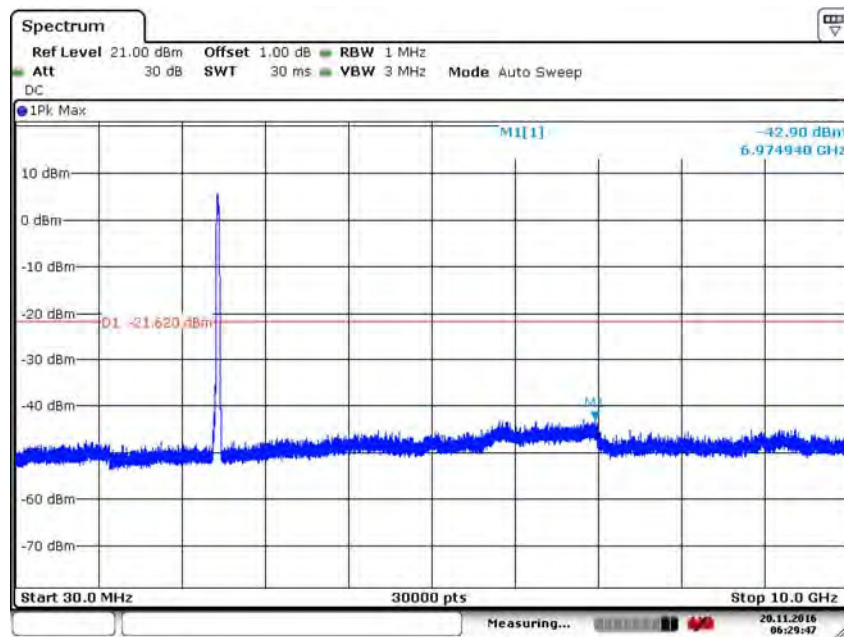




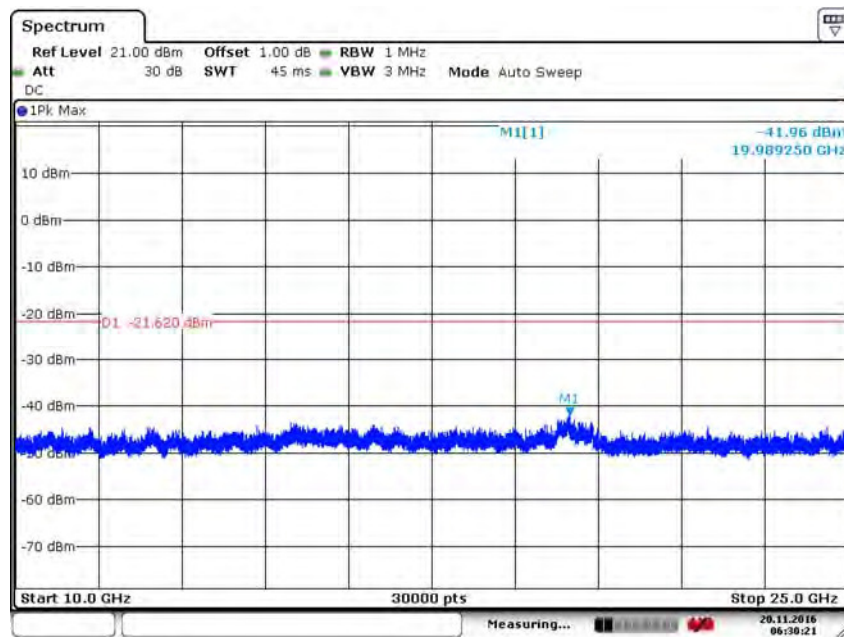
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Date: 20.NOV.2016 06:29:47



Date: 20.NOV.2016 06:30:22



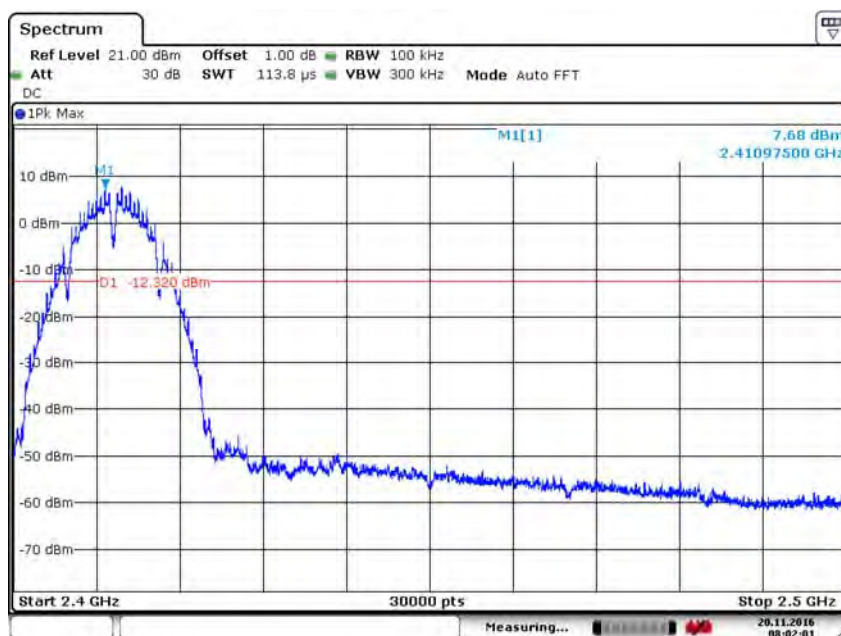
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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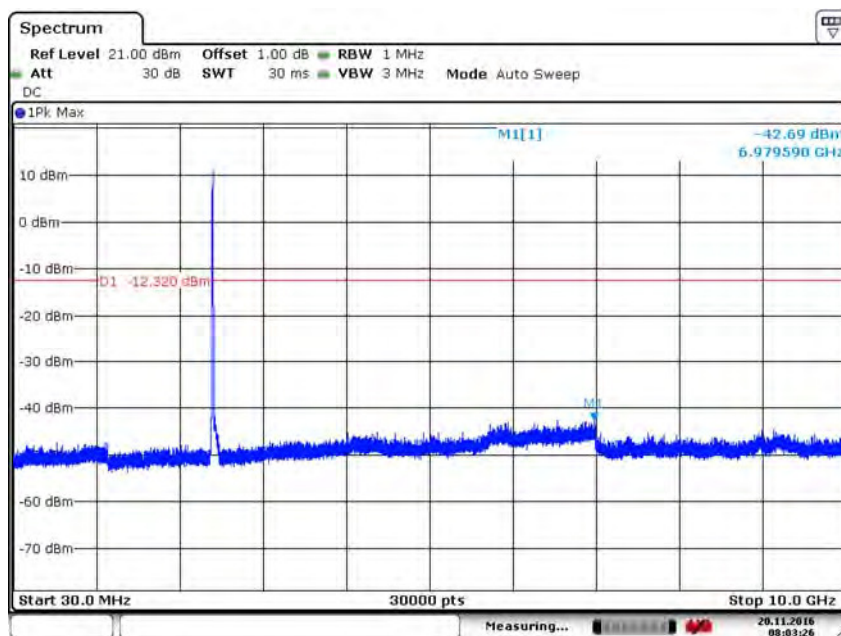
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## Antenna 1:

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|



Date: 20.NOV.2016 08:02:01



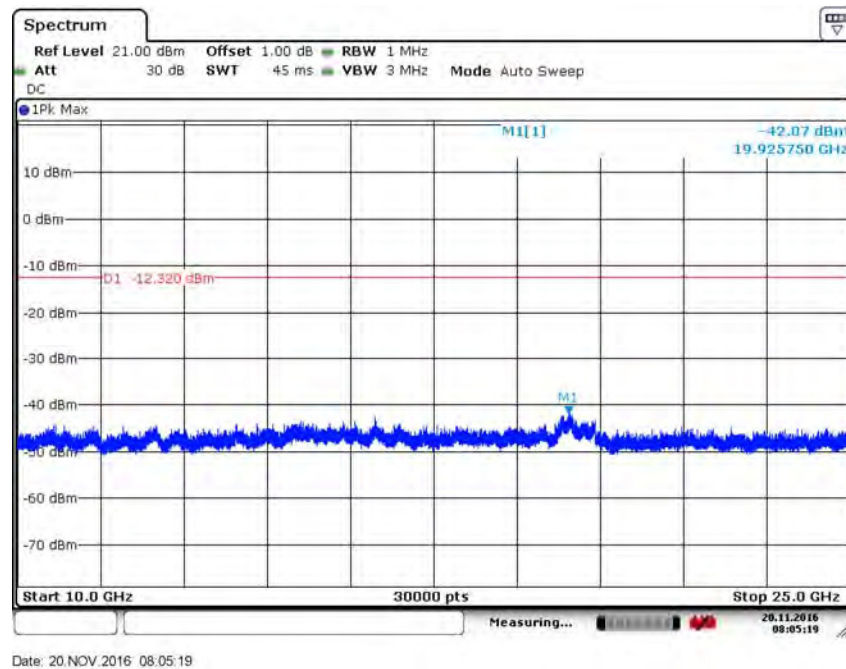
Date: 20.NOV.2016 08:03:27



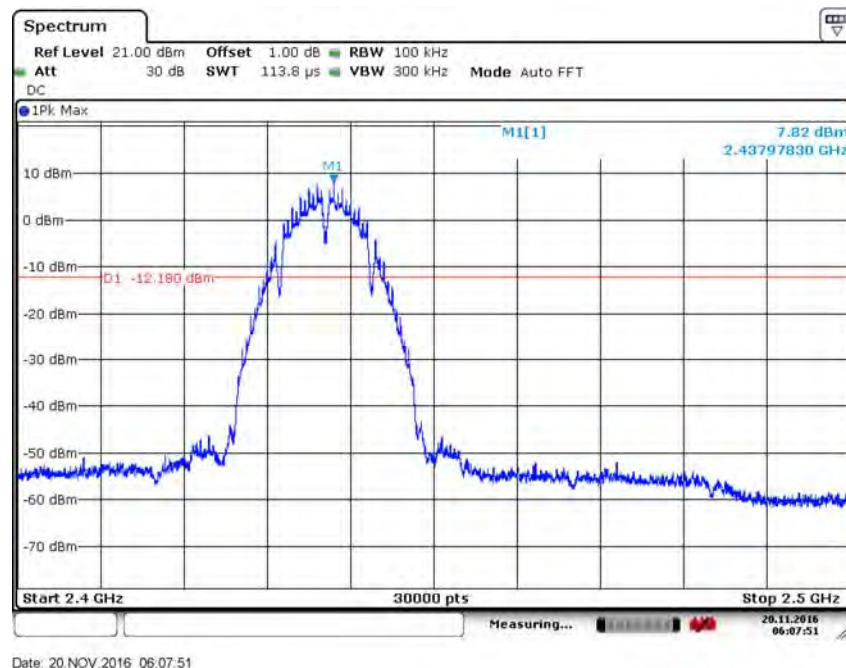
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|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

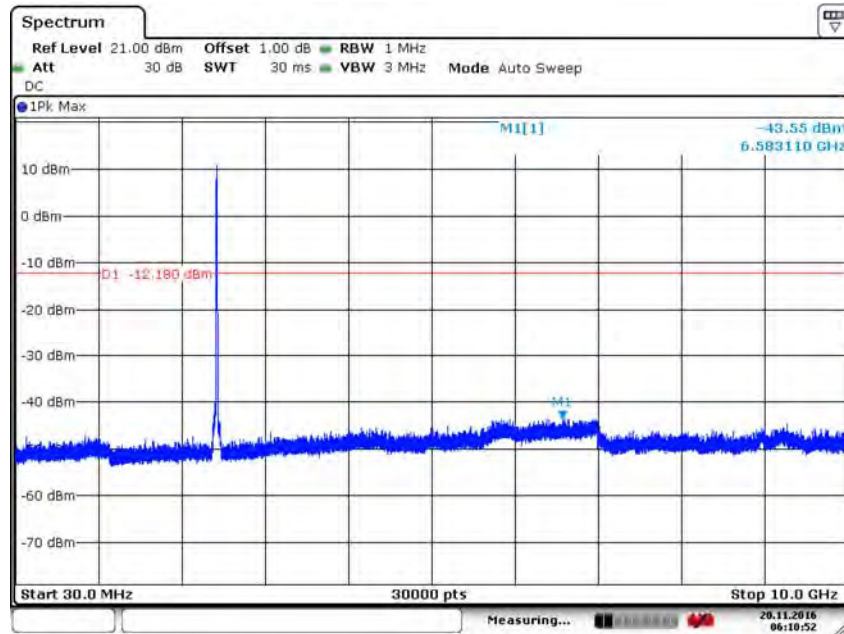




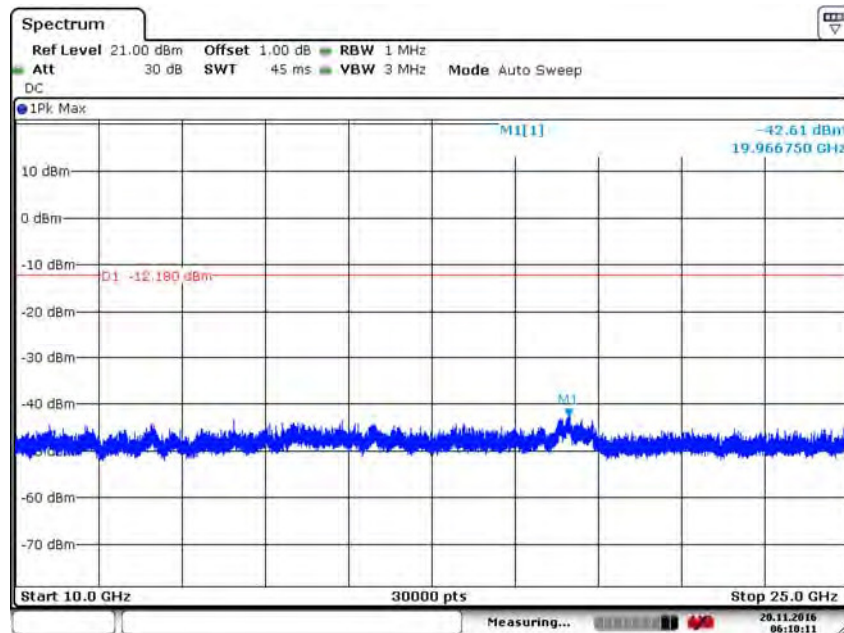
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Date: 20.NOV.2016 06:10:52



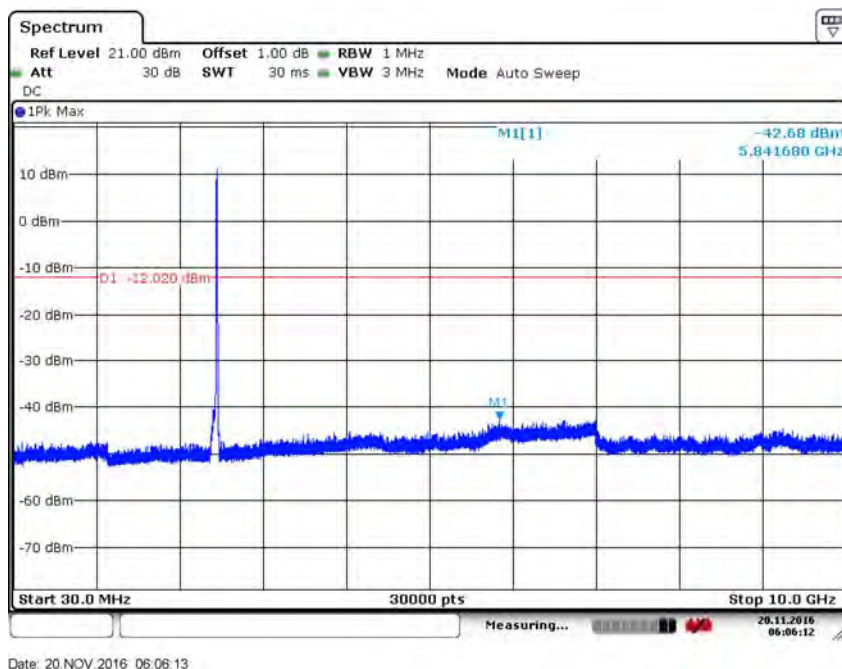
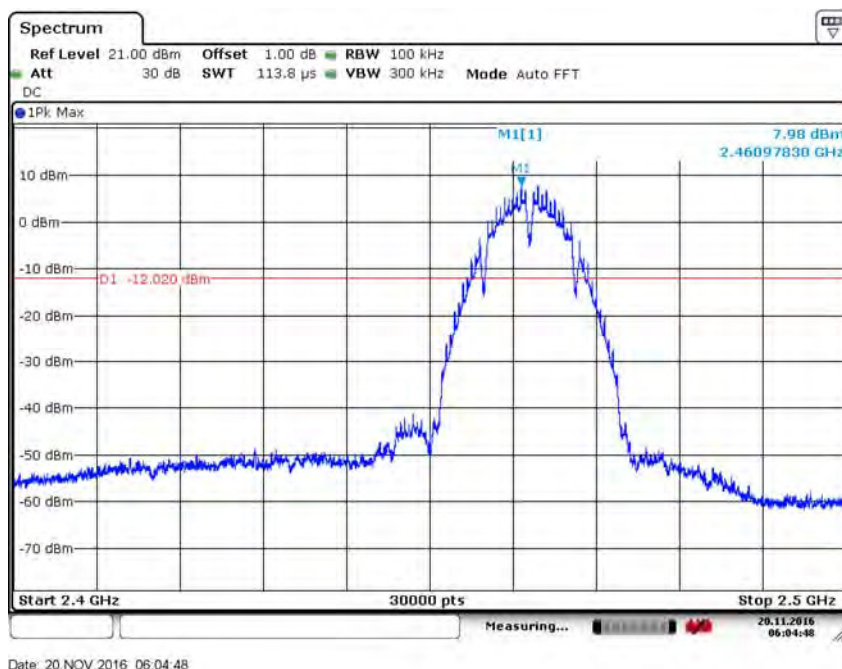
Date: 20.NOV.2016 06:10:11



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|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

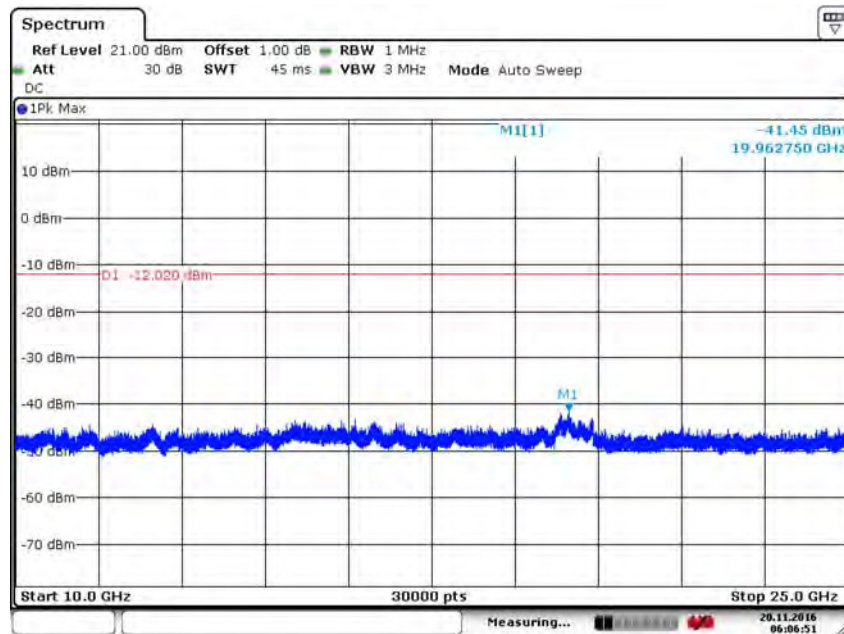




# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

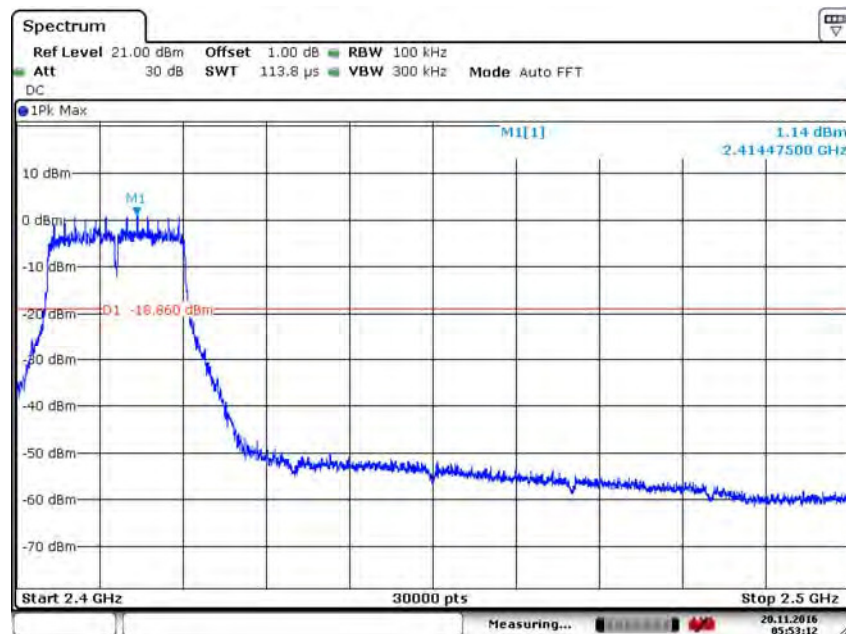
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Date: 20.NOV.2016 06:06:51

|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|



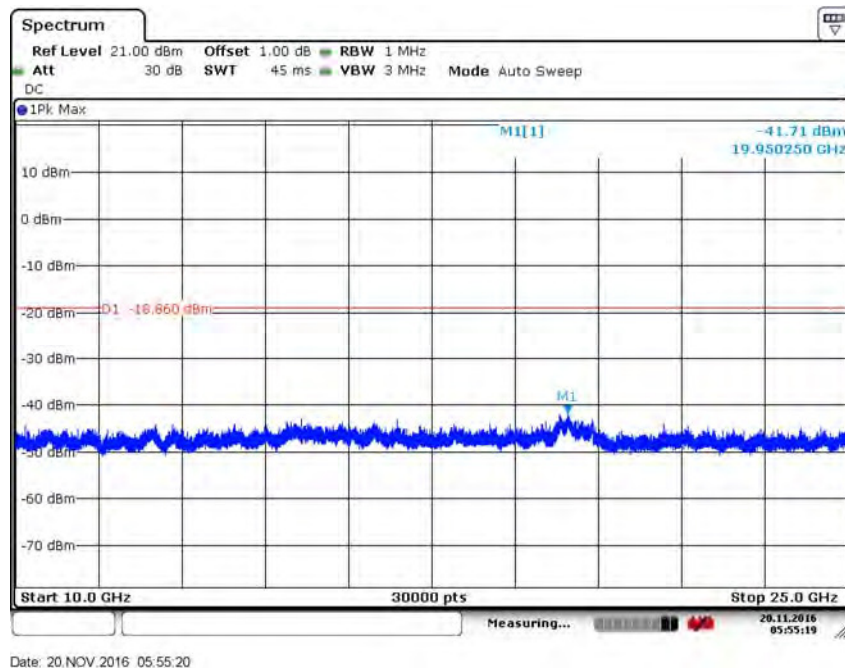
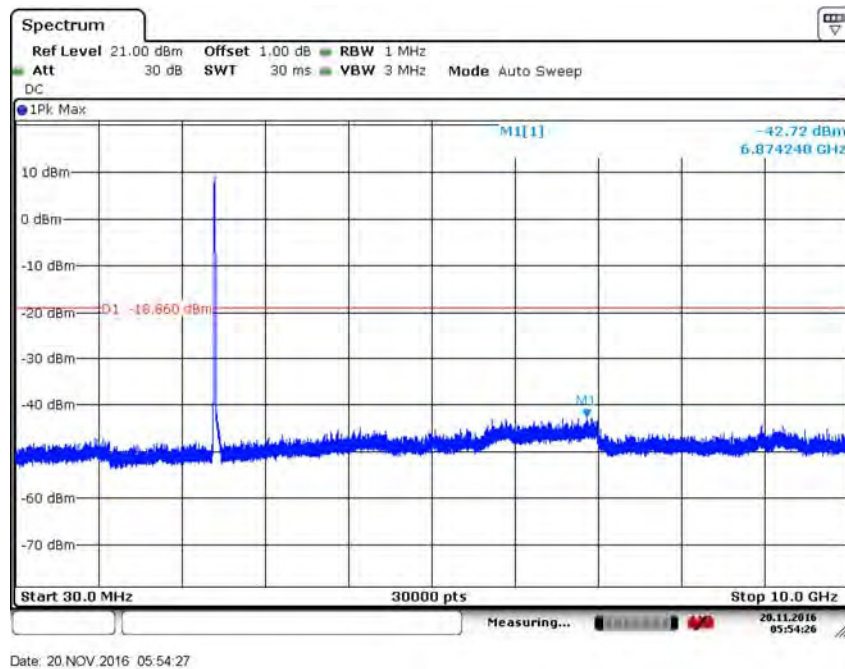
Date: 20.NOV.2016 05:53:12



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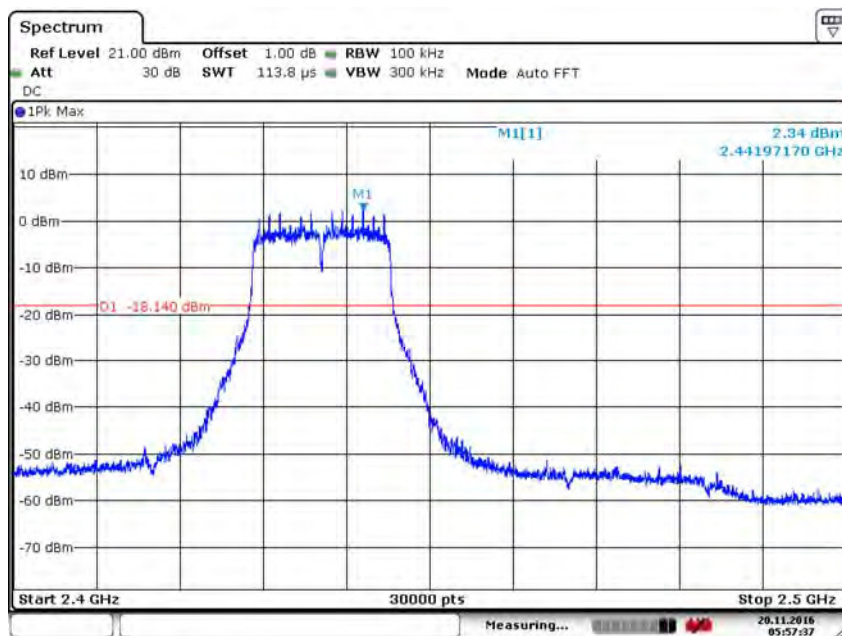




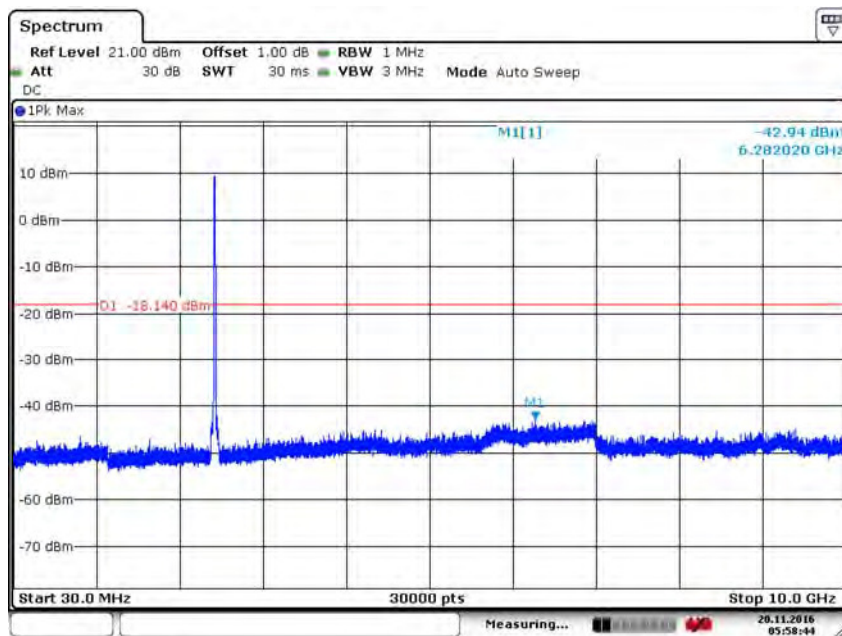
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|



Date: 20.NOV.2016 05:57:37



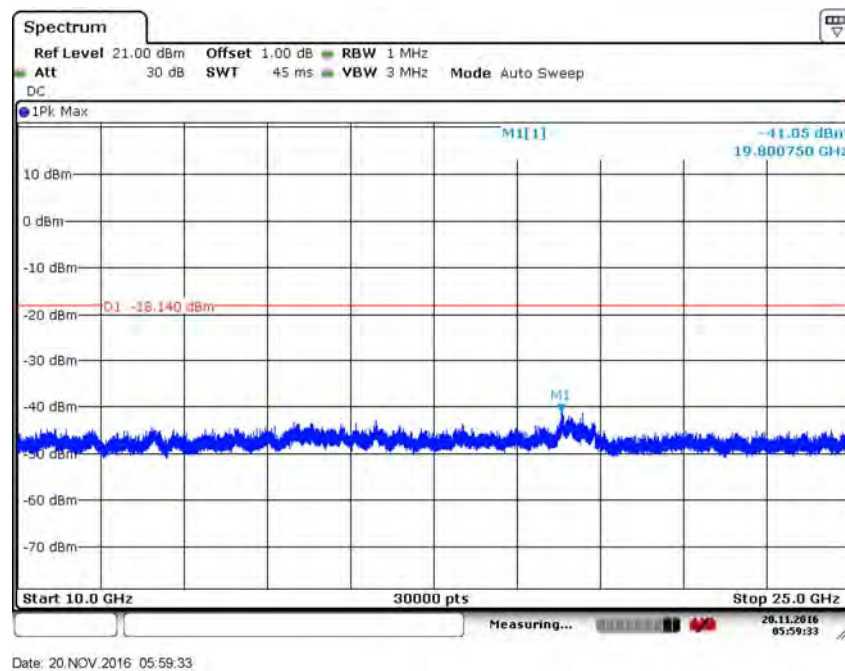
Date: 20.NOV.2016 05:58:45



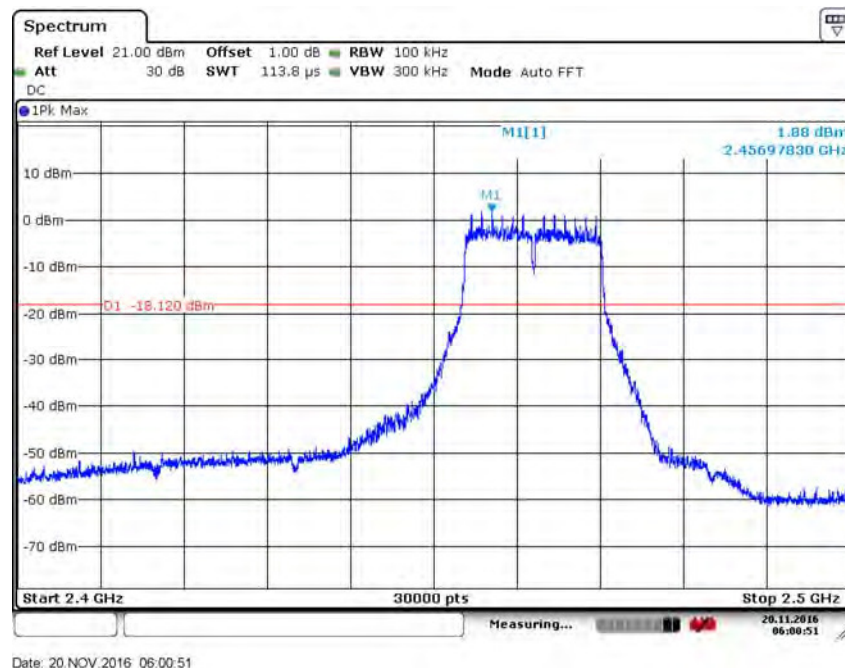
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|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

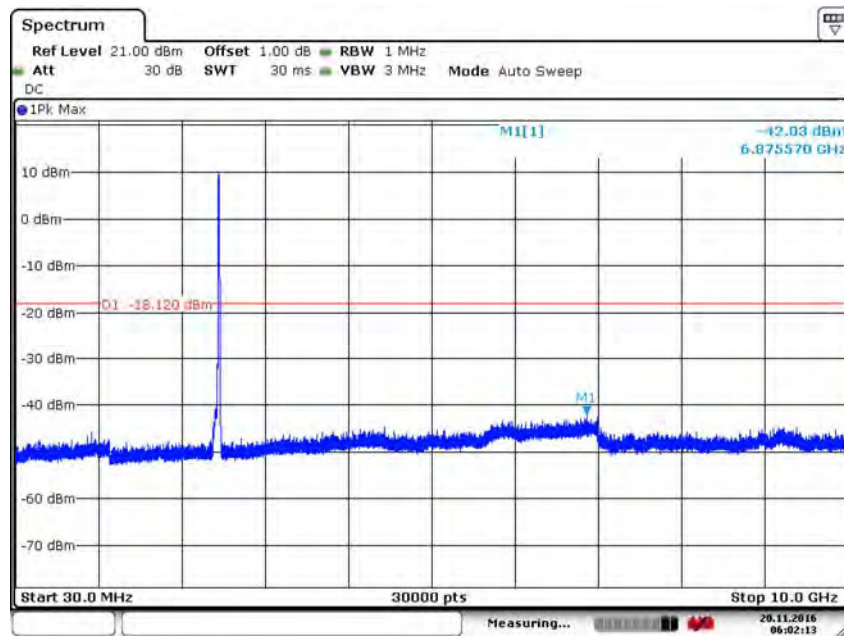




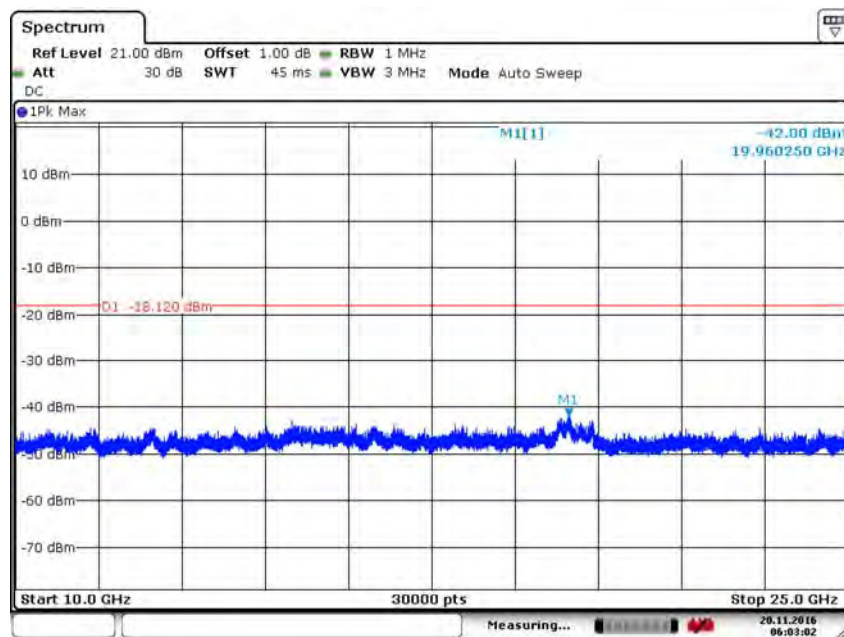
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Date: 20.NOV.2016 06:02:13



Date: 20.NOV.2016 06:03:02

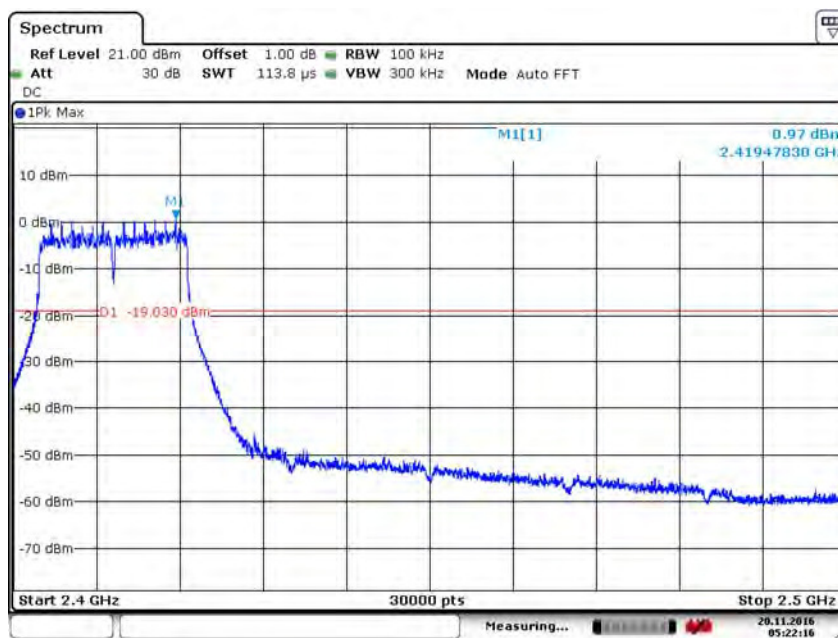


# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

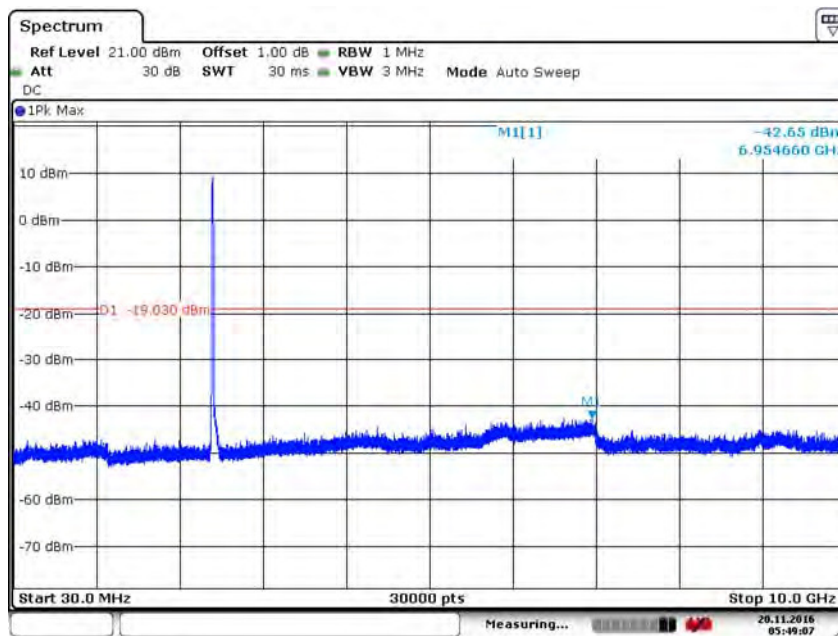
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|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|



Date: 20.NOV.2016 05:22:17



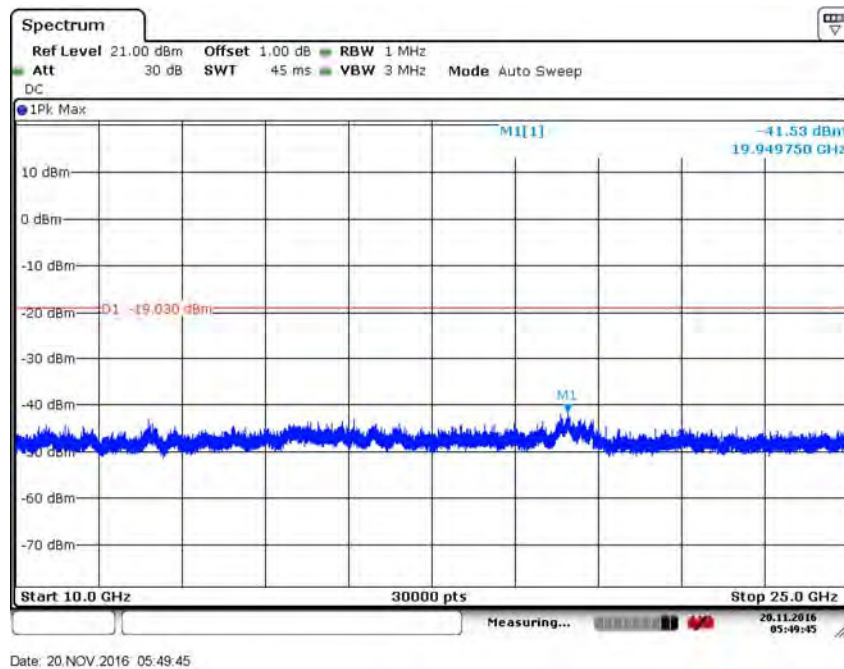
Date: 20.NOV.2016 05:49:08



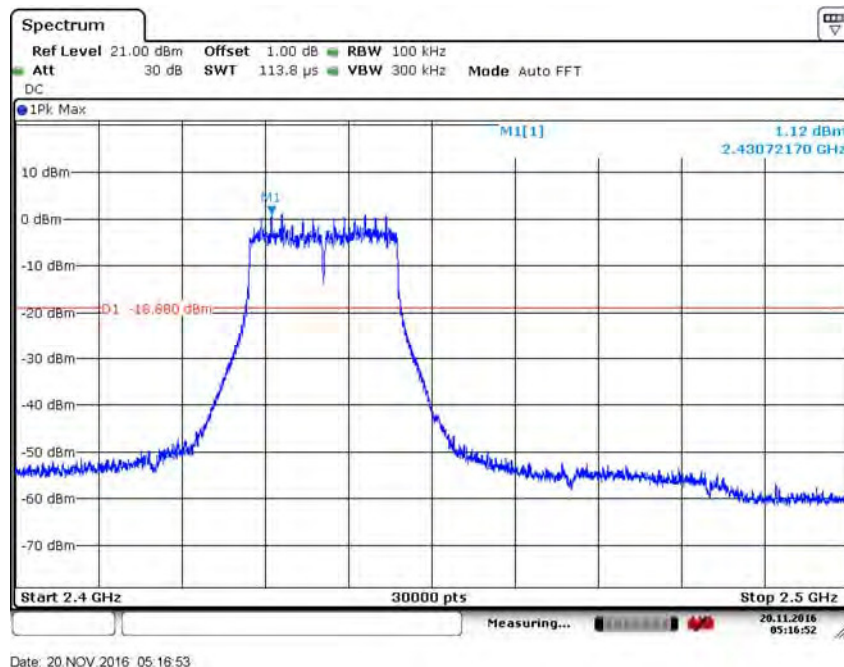
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Middle |
|------------|---------------|---------------|--------|

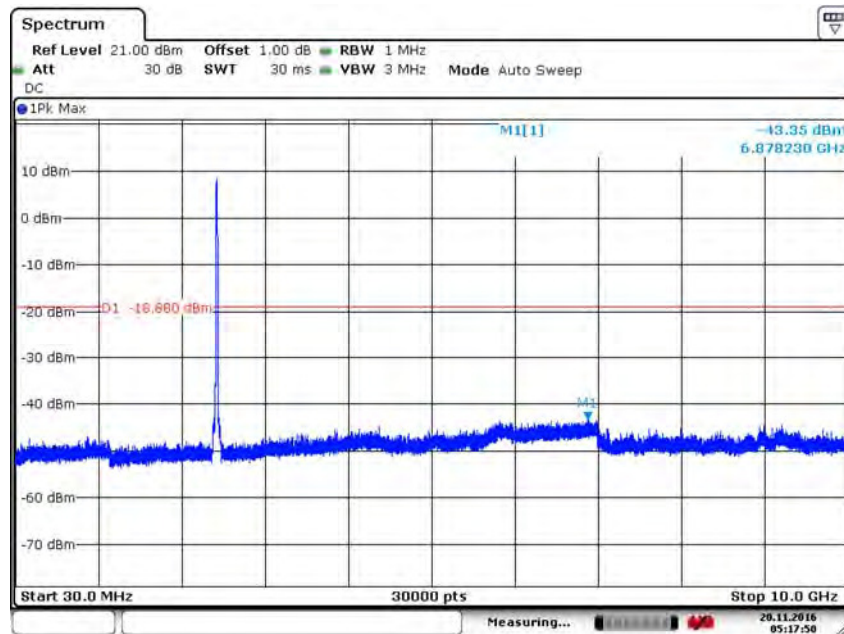




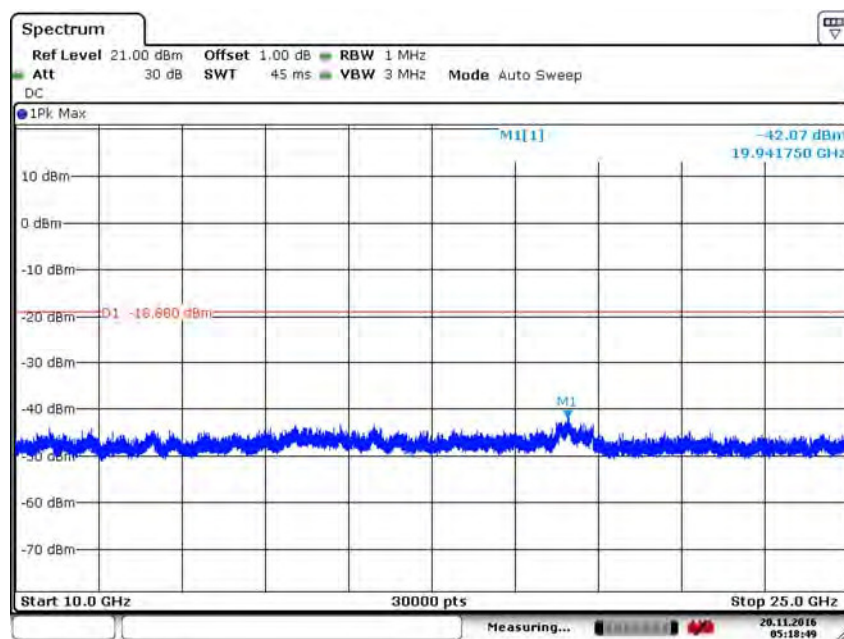
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Date: 20.NOV.2016 05:17:51



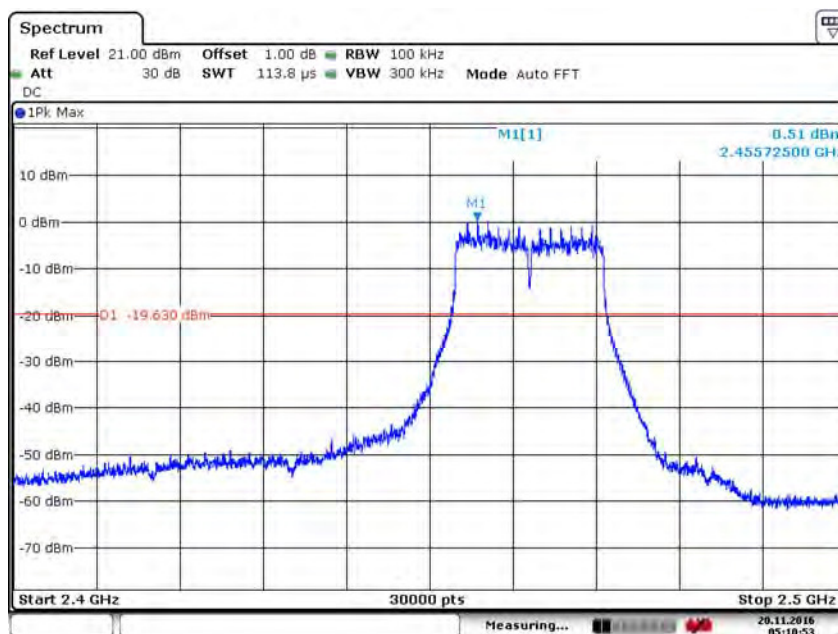
Date: 20.NOV.2016 05:18:50



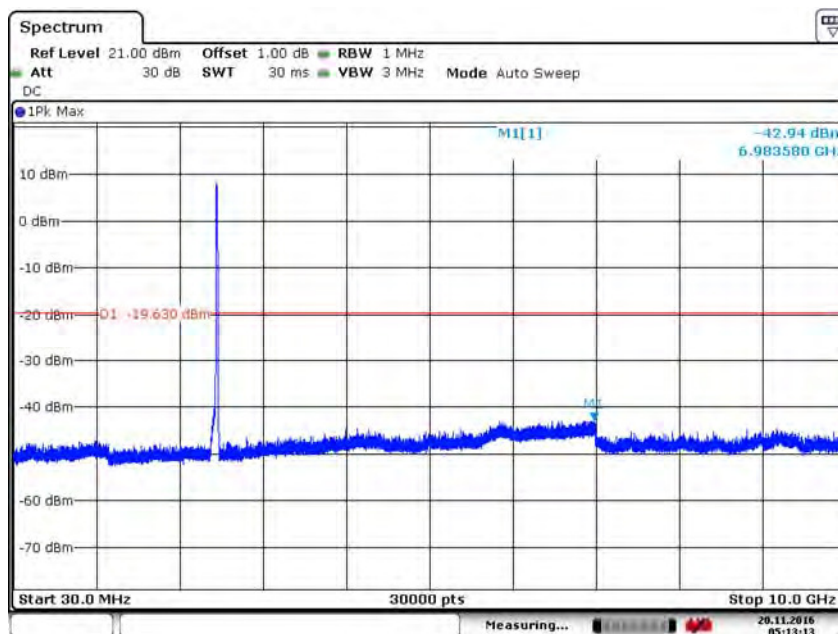
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|



Date: 20.NOV.2016 05:10:54



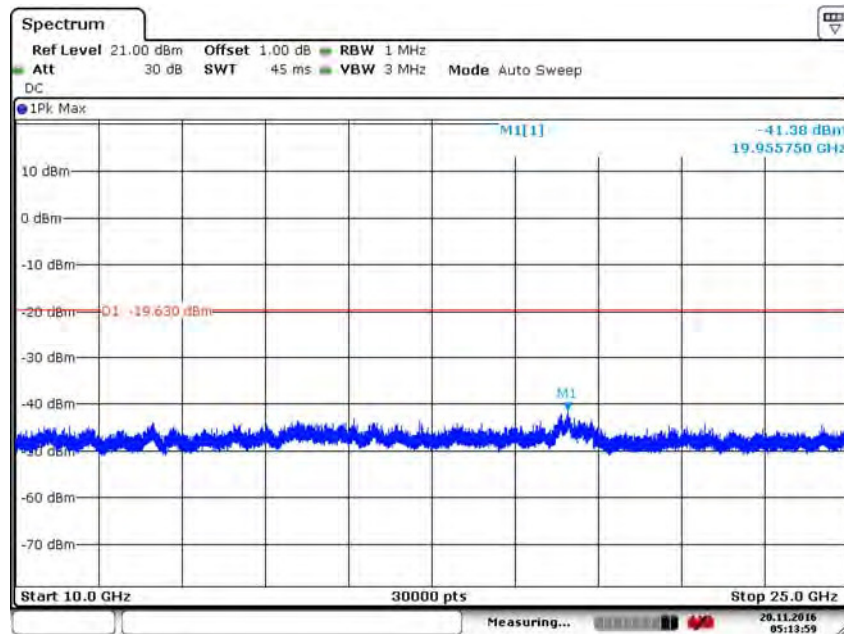
Date: 20.NOV.2016 05:13:14



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

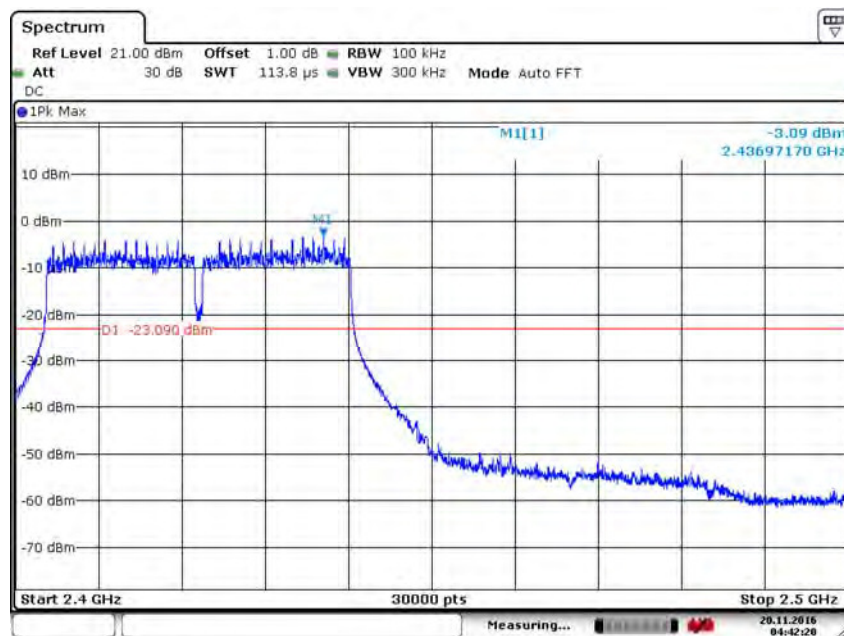
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Date: 20.NOV.2016 05:13:59

|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|



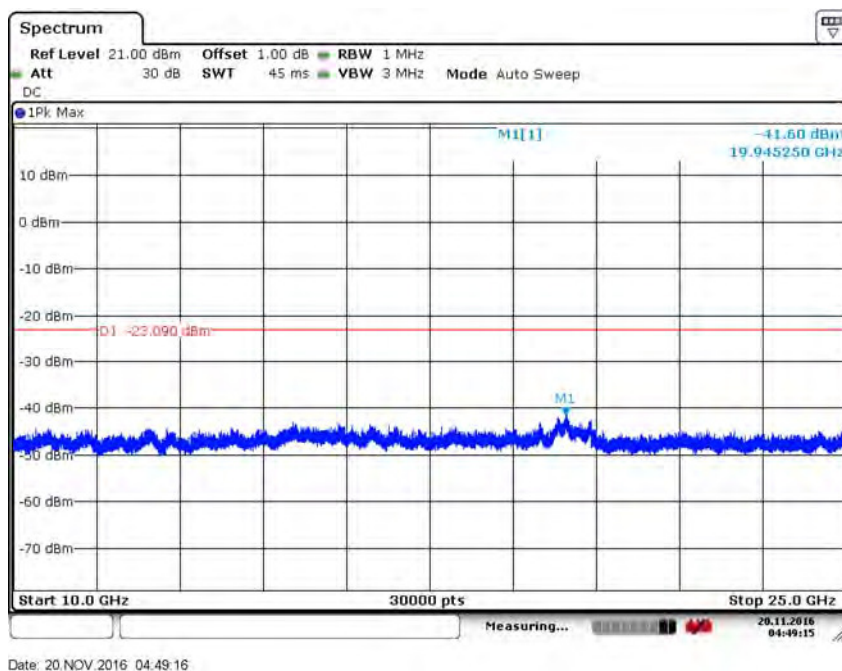
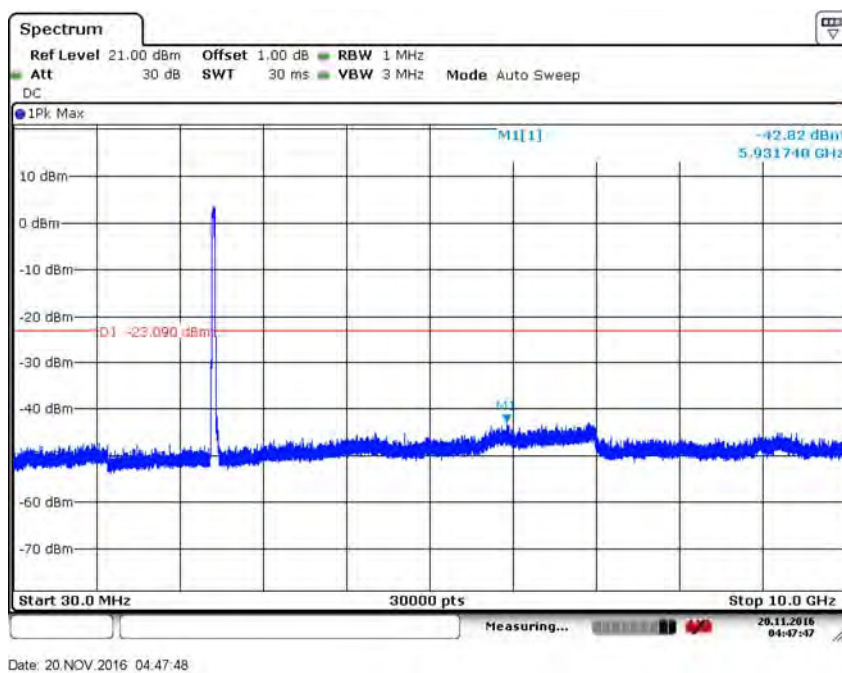
Date: 20.NOV.2016 04:42:20



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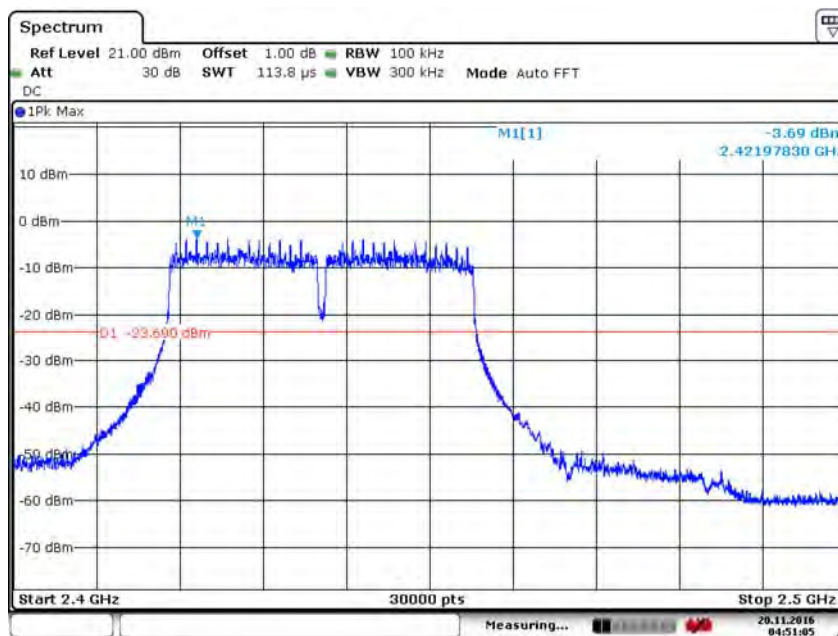




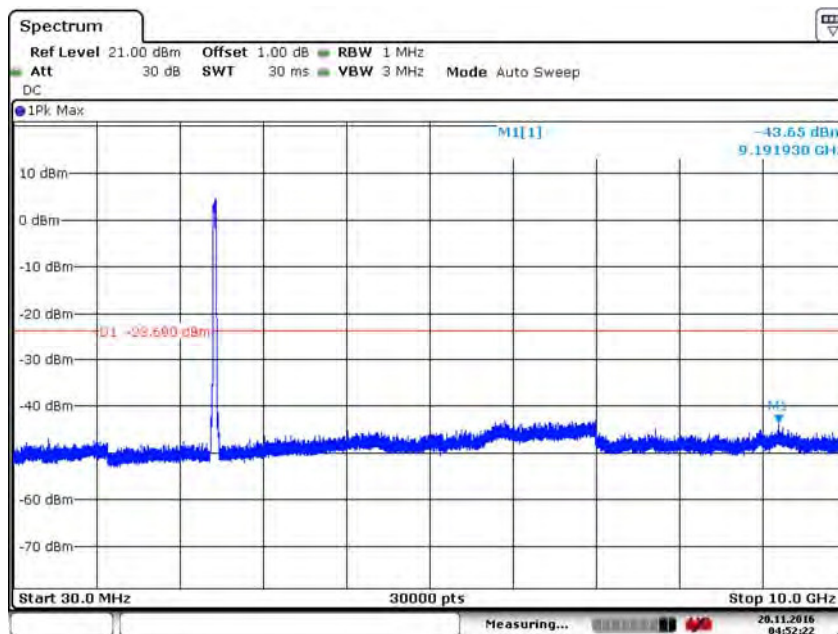
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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|            |               |               |        |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Middle |
|------------|---------------|---------------|--------|



Date: 20.NOV.2016 04:51:06



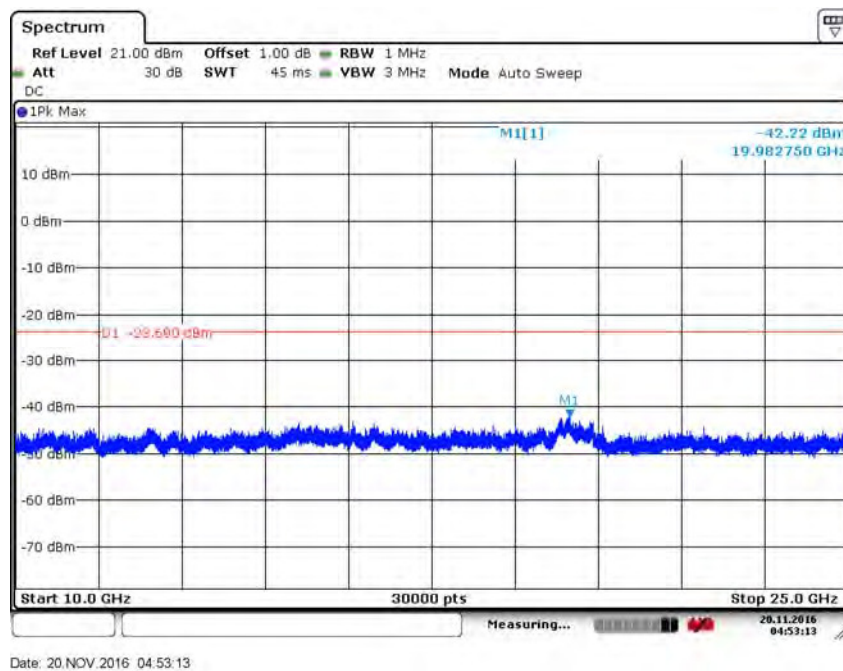
Date: 20.NOV.2016 04:52:23



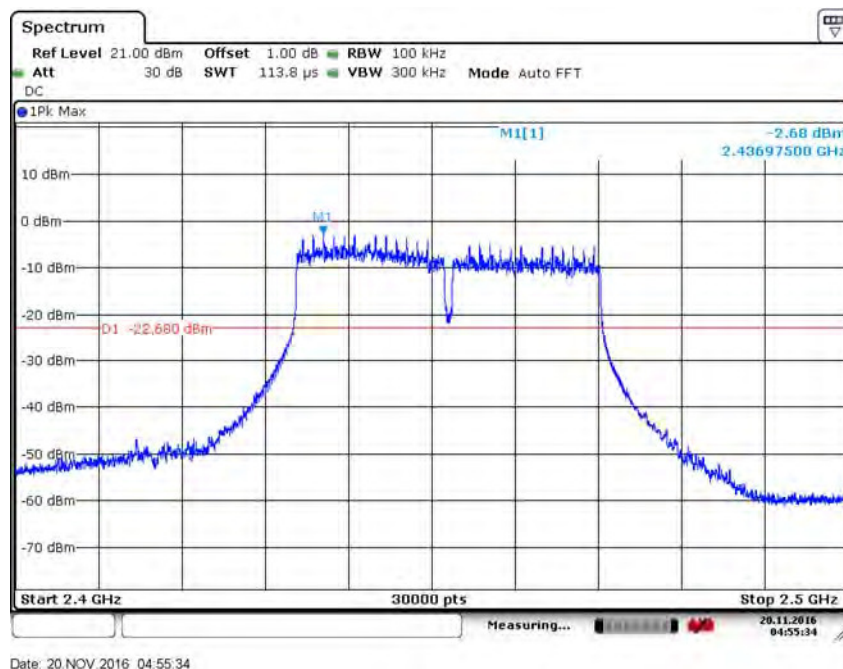
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|            |               |               |         |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

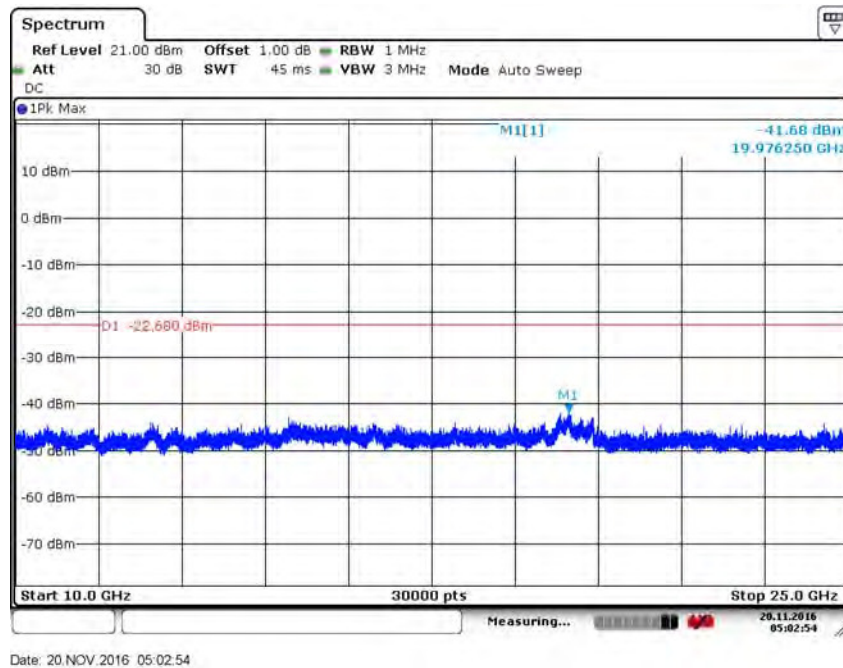
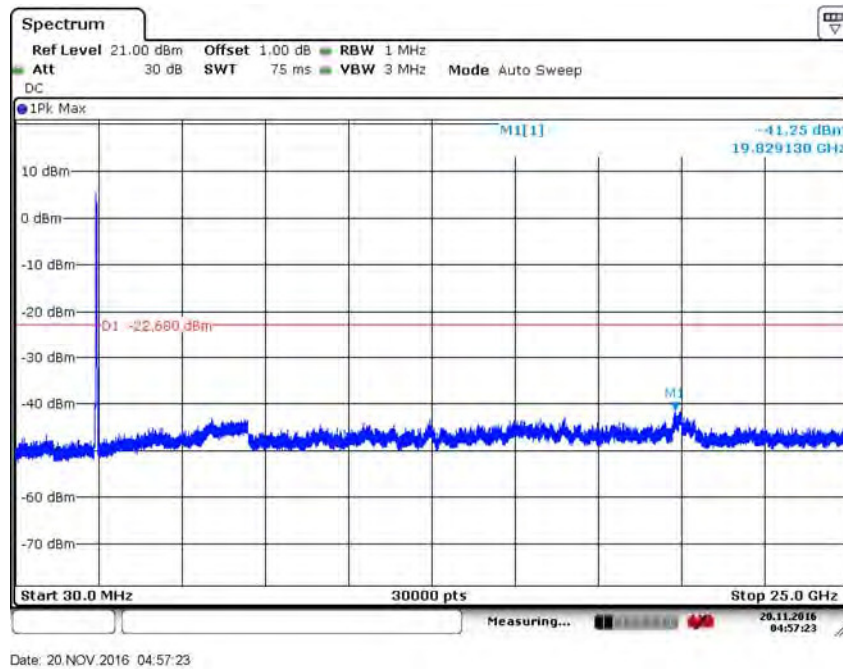




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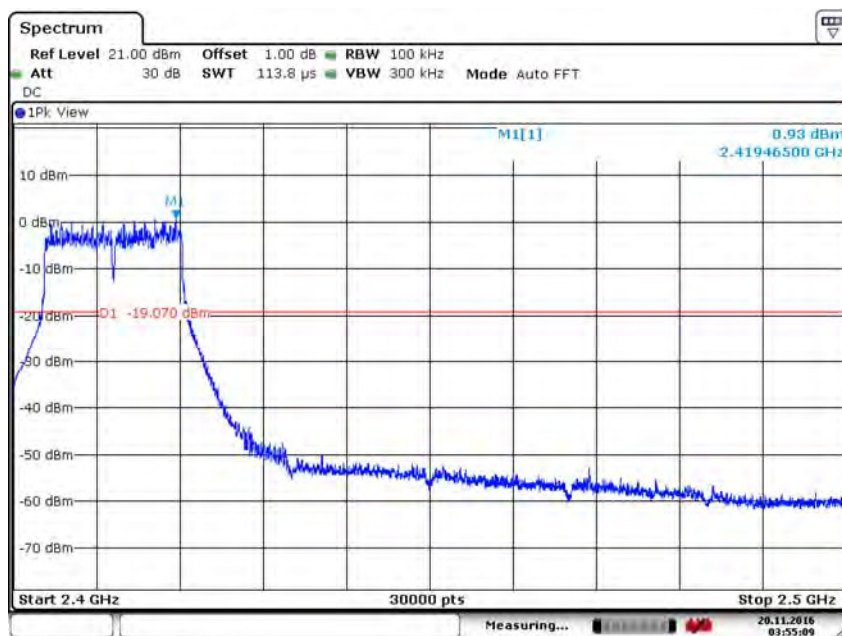


# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

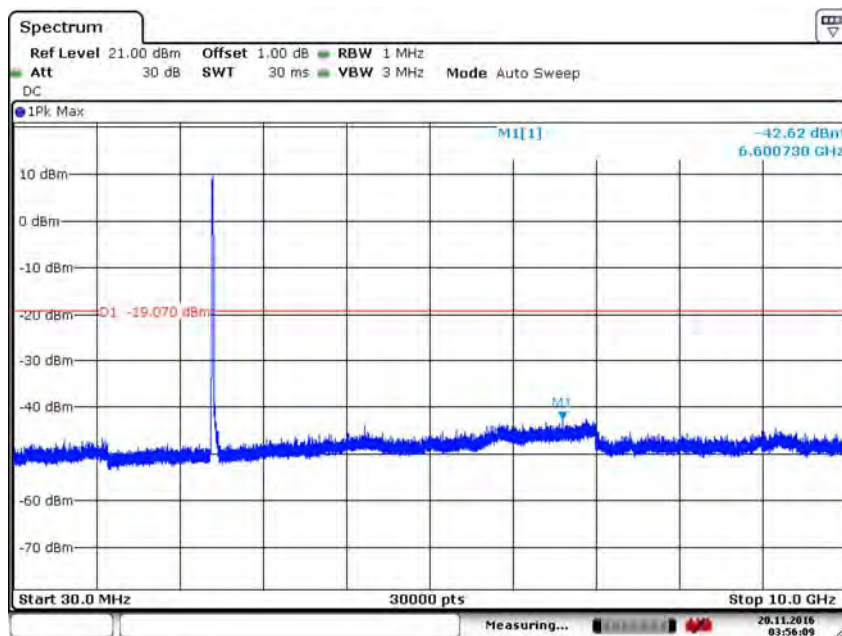
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|            |                   |               |        |
|------------|-------------------|---------------|--------|
| Test mode: | 802.11n(HT20)MIMO | Test channel: | Lowest |
|------------|-------------------|---------------|--------|



Date: 20.NOV.2016 03:55:09



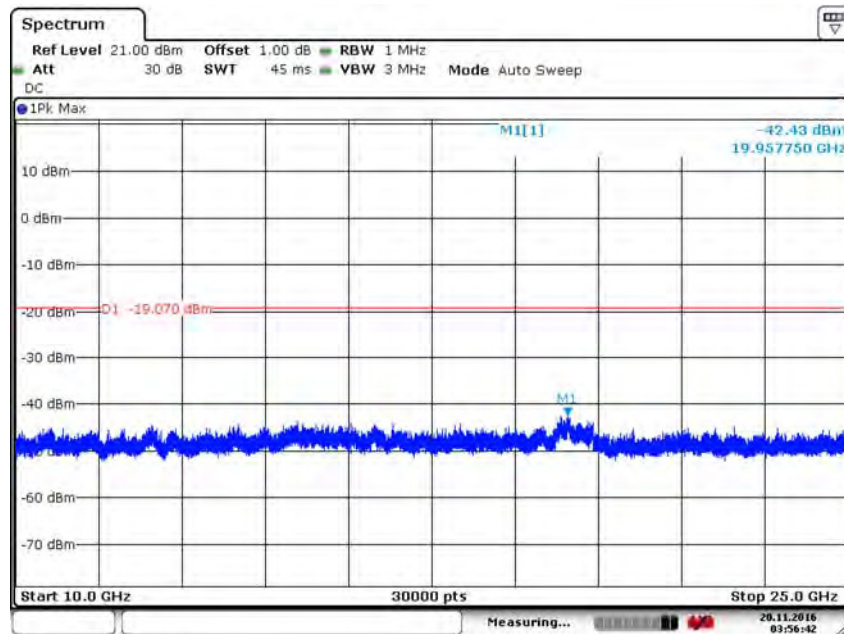
Date: 20.NOV.2016 03:56:09



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

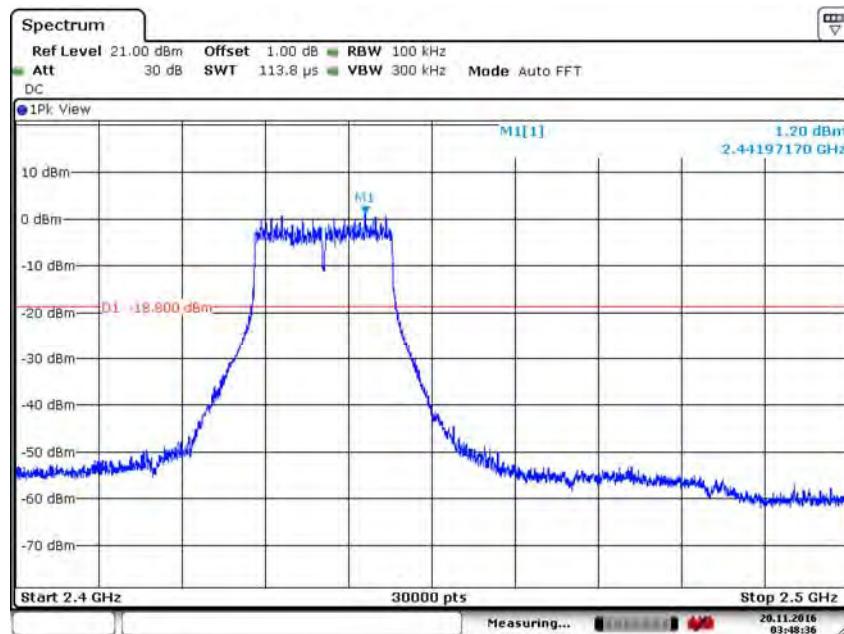
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Date: 20.NOV.2016 03:56:42

|            |                   |               |        |
|------------|-------------------|---------------|--------|
| Test mode: | 802.11n(HT20)MIMO | Test channel: | Middle |
|------------|-------------------|---------------|--------|



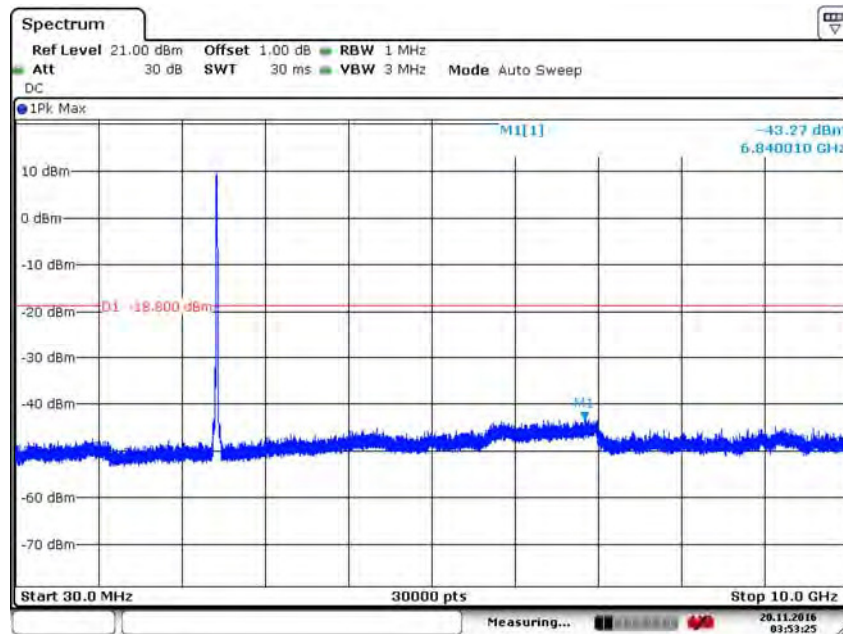
Date: 20.NOV.2016 03:48:37



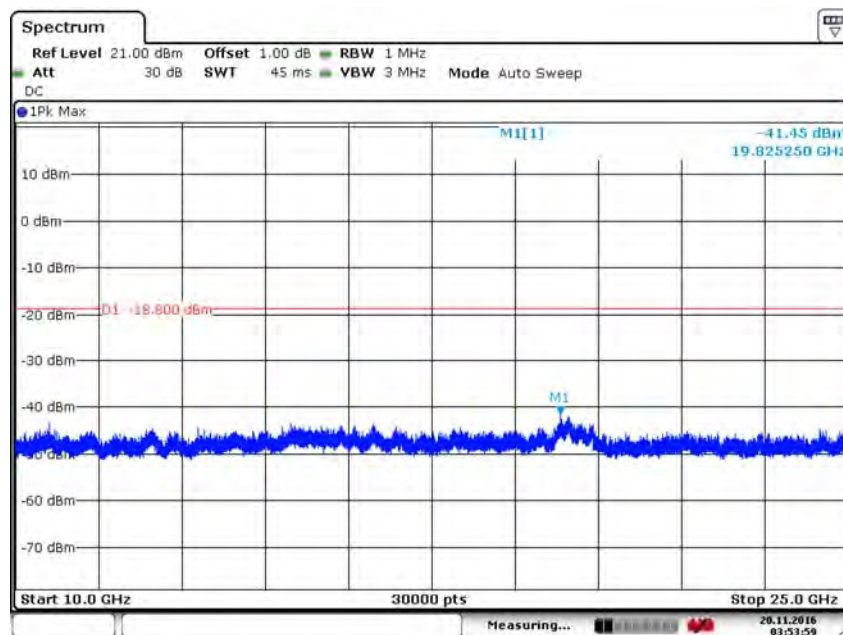
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Date: 20.NOV.2016 03:53:26



Date: 20.NOV.2016 03:53:59

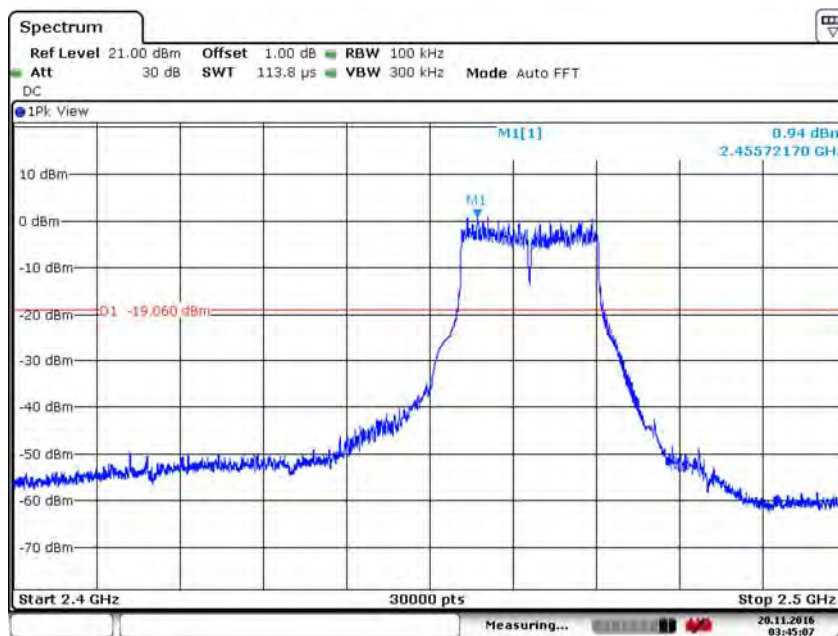


# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

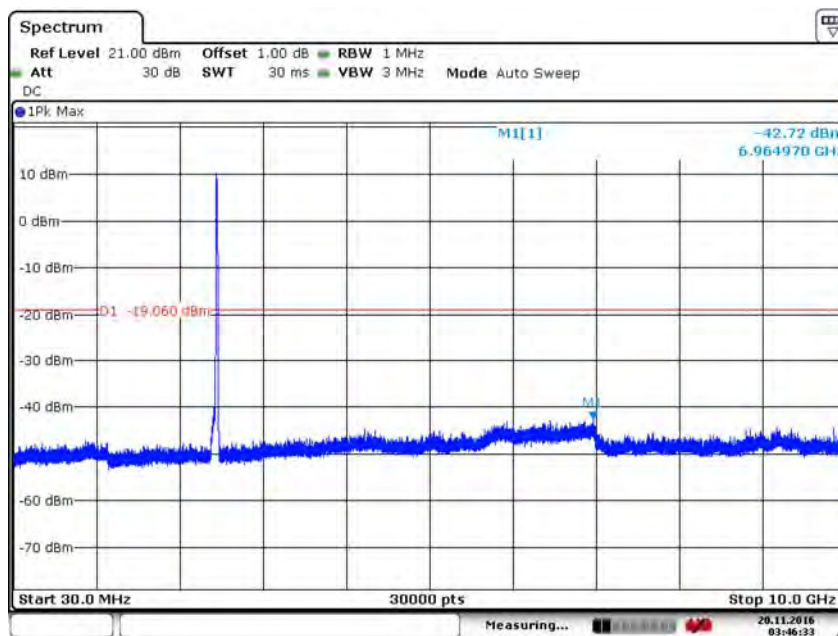
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|            |                   |               |         |
|------------|-------------------|---------------|---------|
| Test mode: | 802.11n(HT20)MIMO | Test channel: | Highest |
|------------|-------------------|---------------|---------|



Date: 20.NOV.2016 03:45:07



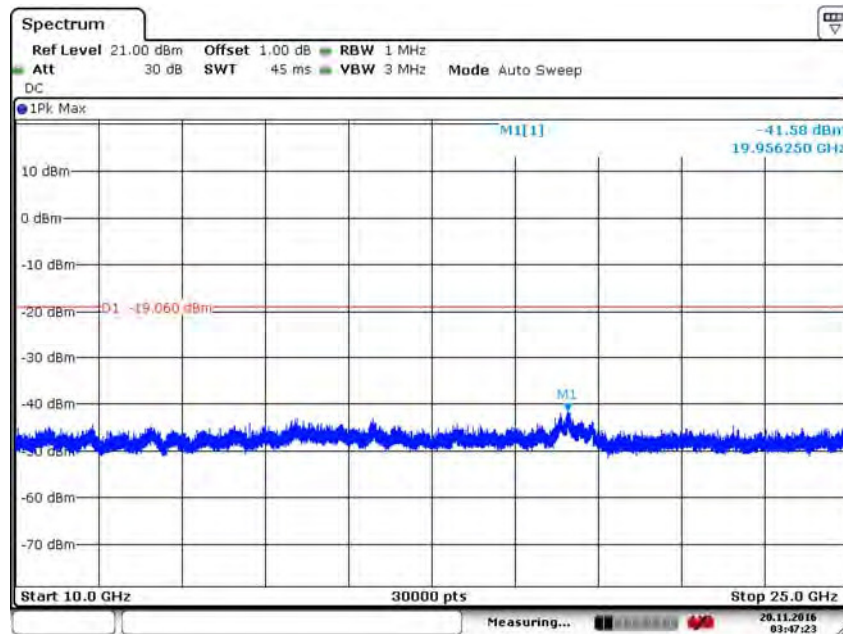
Date: 20.NOV.2016 03:46:34



# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

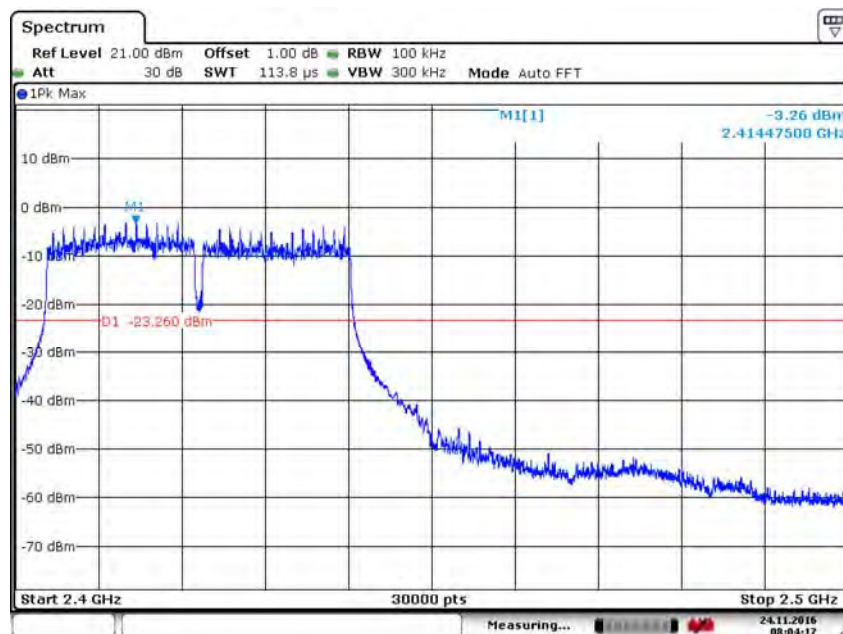
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Date: 20.NOV.2016 03:47:24

|            |                   |               |        |
|------------|-------------------|---------------|--------|
| Test mode: | 802.11n(HT40)MIMO | Test channel: | Lowest |
|------------|-------------------|---------------|--------|



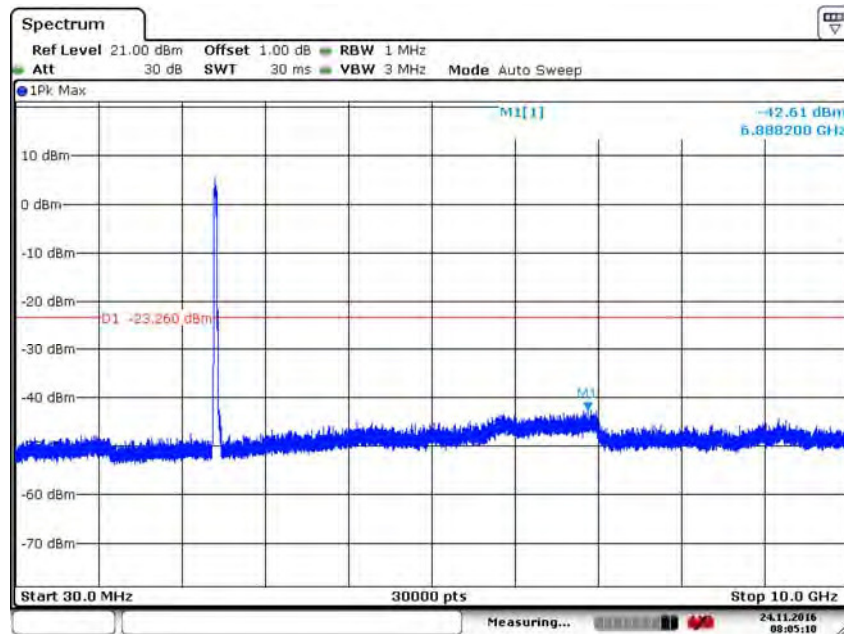
Date: 24.NOV.2016 08:04:17



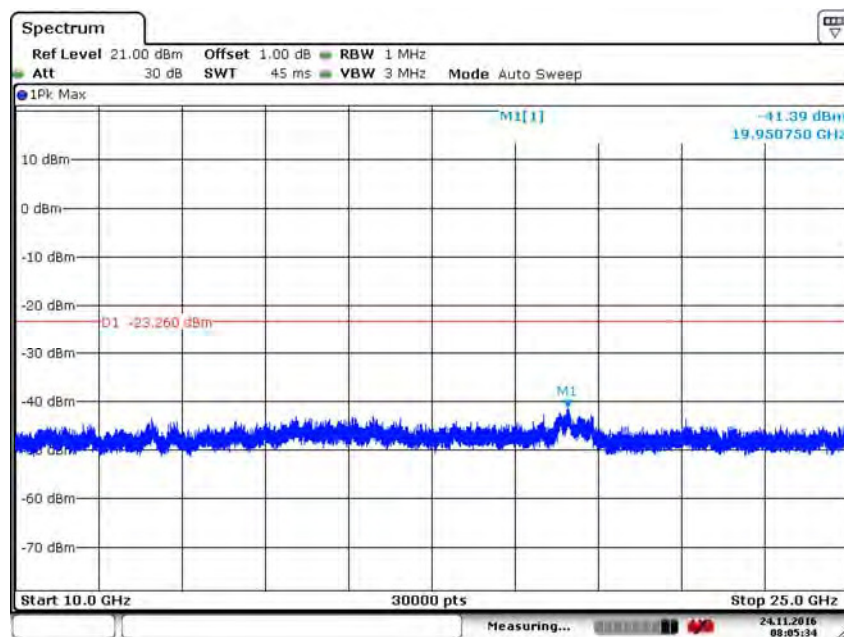
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Date: 24 NOV.2016 08:05:11



Date: 24 NOV.2016 08:05:34

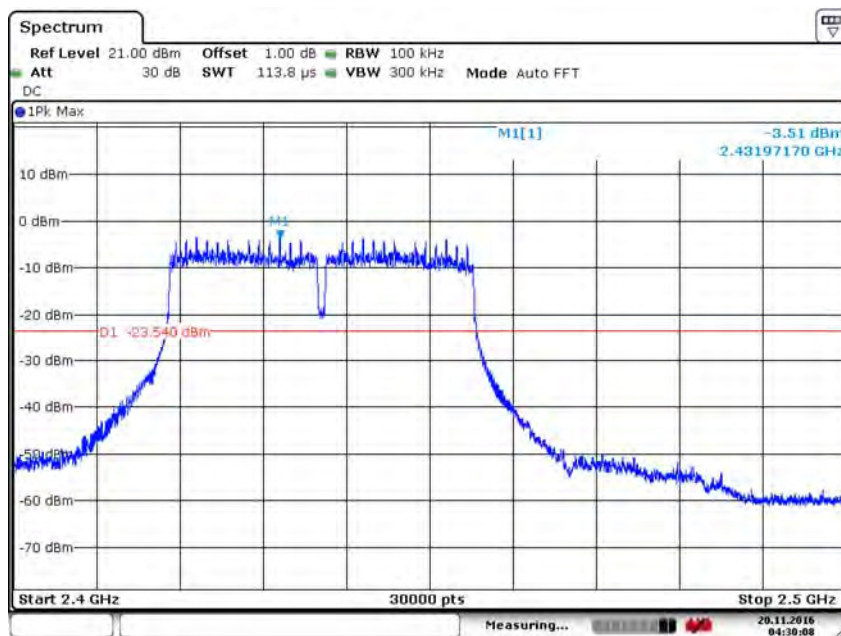


# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

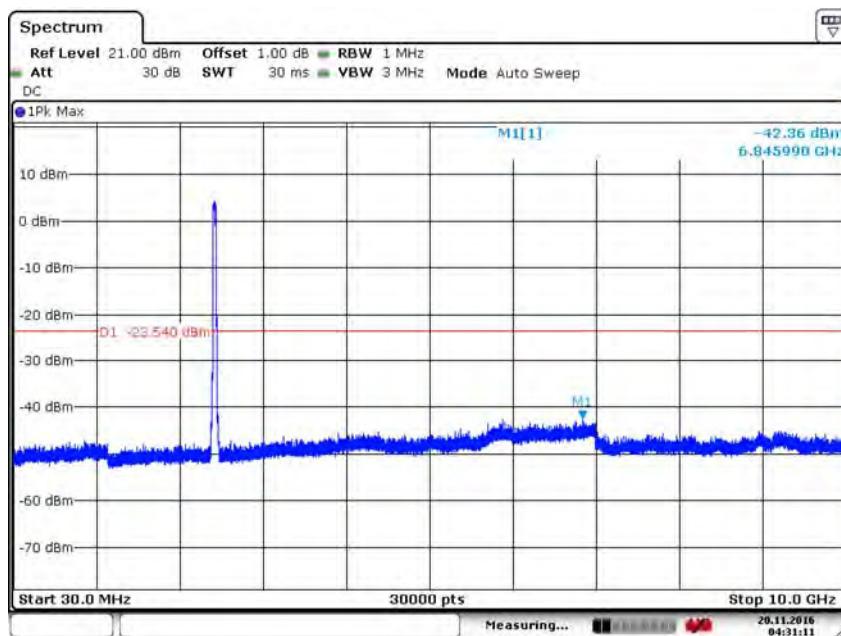
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|            |                   |               |        |
|------------|-------------------|---------------|--------|
| Test mode: | 802.11n(HT40)MIMO | Test channel: | Middle |
|------------|-------------------|---------------|--------|



Date: 20.NOV.2016 04:30:08



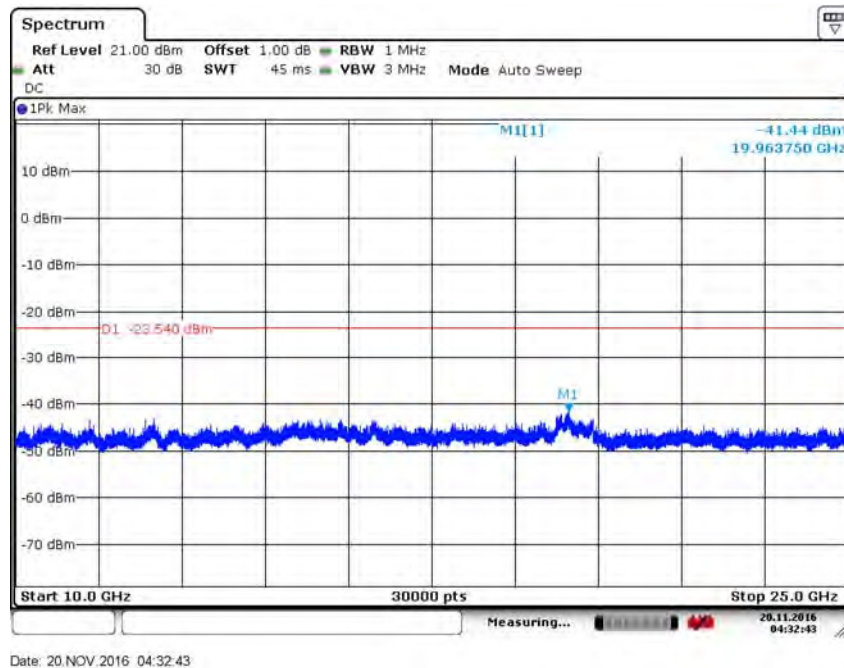
Date: 20.NOV.2016 04:31:12



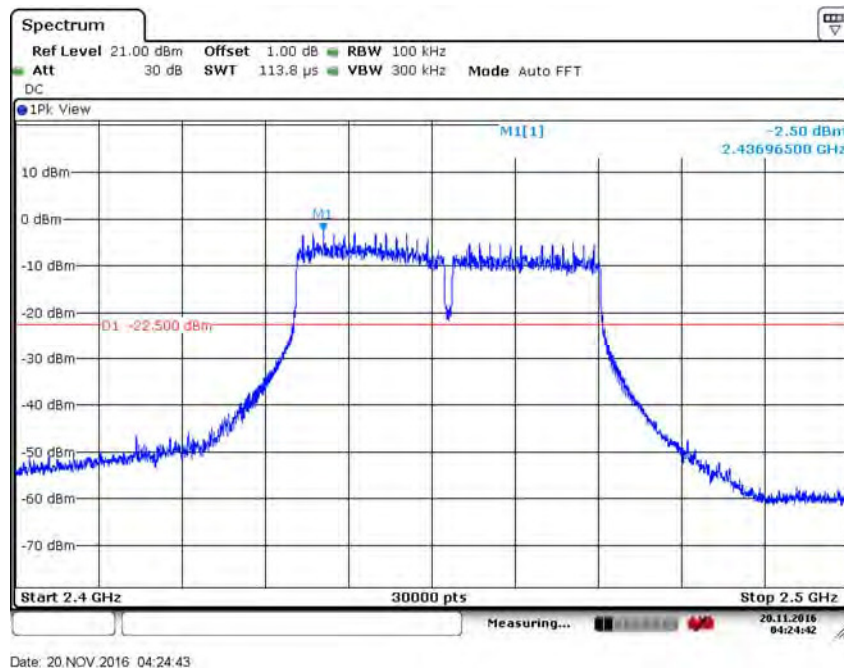
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|            |                   |               |         |
|------------|-------------------|---------------|---------|
| Test mode: | 802.11n(HT40)MIMO | Test channel: | Highest |
|------------|-------------------|---------------|---------|

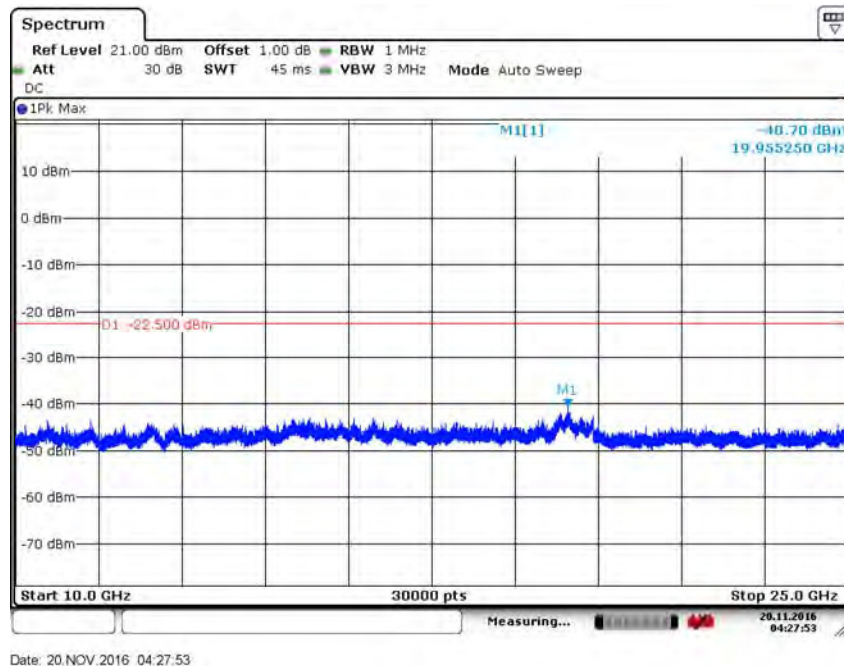
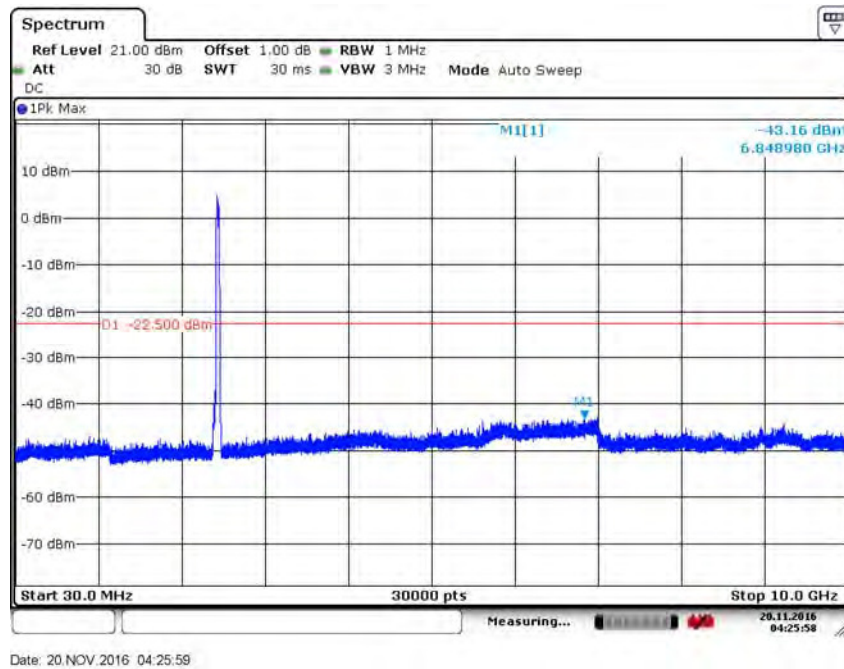




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Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30000.



## 6.8 Radiated Spurious Emissions

|                   |                                                                                                                                                                                                                                                                             |                                     |                   |            |                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|------------|-----------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205                                                                                                                                                                                                                                   |                                     |                   |            |                             |
| Test Method:      | ANSI C63.10 :2013 Section 11.12                                                                                                                                                                                                                                             |                                     |                   |            |                             |
| Test Site:        | Below 1GHz:<br>Measurement Distance: 3m (Semi-Anechoic Chamber)<br>Above 1GHz:<br>Measurement Distance: 3m (Full-Anechoic Chamber)                                                                                                                                          |                                     |                   |            |                             |
| Receiver Setup:   | Frequency                                                                                                                                                                                                                                                                   | Detector                            | RBW               | VBW        | Remark                      |
|                   | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                           | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                   | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                           | Average                             | 10kHz             | 30kHz      | Average                     |
|                   | 0.090MHz-0.110MHz                                                                                                                                                                                                                                                           | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                   | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                           | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                   | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                           | Average                             | 10kHz             | 30kHz      | Average                     |
|                   | 0.490MHz -30MHz                                                                                                                                                                                                                                                             | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                   | 30MHz-1GHz                                                                                                                                                                                                                                                                  | Quasi-peak                          | 100 kHz           | 300kHz     | Quasi-peak                  |
|                   | Above 1GHz                                                                                                                                                                                                                                                                  | Peak                                | 1MHz              | 3MHz       | Peak                        |
|                   |                                                                                                                                                                                                                                                                             | Peak                                | 1MHz              | 10Hz       | Average                     |
| Limit:            | Frequency                                                                                                                                                                                                                                                                   | Field strength<br>(microvolt/meter) | Limit<br>(dBuV/m) | Remark     | Measurement<br>distance (m) |
|                   | 0.009MHz-0.490MHz                                                                                                                                                                                                                                                           | 2400/F(kHz)                         | -                 | -          | 300                         |
|                   | 0.490MHz-1.705MHz                                                                                                                                                                                                                                                           | 24000/F(kHz)                        | -                 | -          | 30                          |
|                   | 1.705MHz-30MHz                                                                                                                                                                                                                                                              | 30                                  | -                 | -          | 30                          |
|                   | 30MHz-88MHz                                                                                                                                                                                                                                                                 | 100                                 | 40.0              | Quasi-peak | 3                           |
|                   | 88MHz-216MHz                                                                                                                                                                                                                                                                | 150                                 | 43.5              | Quasi-peak | 3                           |
|                   | 216MHz-960MHz                                                                                                                                                                                                                                                               | 200                                 | 46.0              | Quasi-peak | 3                           |
|                   | 960MHz-1GHz                                                                                                                                                                                                                                                                 | 500                                 | 54.0              | Quasi-peak | 3                           |
|                   | Above 1GHz                                                                                                                                                                                                                                                                  | 500                                 | 54.0              | Average    | 3                           |
|                   | Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. |                                     |                   |            |                             |

**Test Setup:**

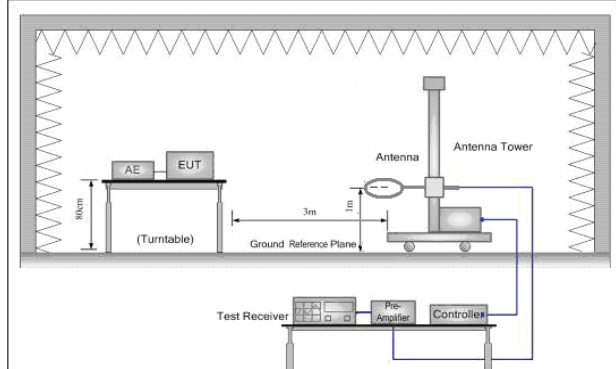


Figure 1. Below 30MHz

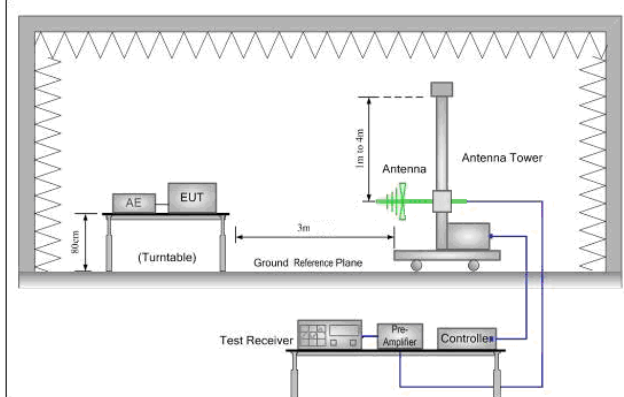


Figure 2. 30MHz to 1GHz

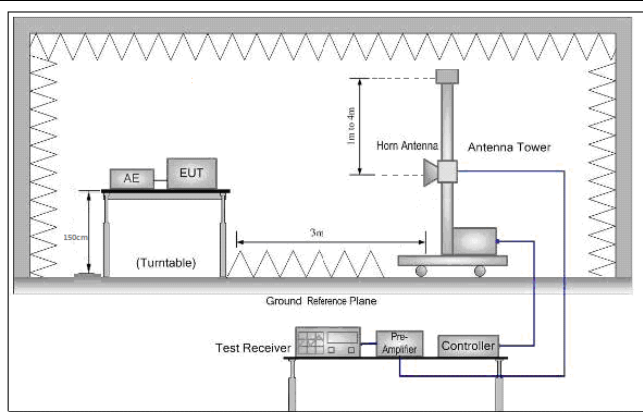


Figure 3. Above 1 GHz

**Test Procedure:**

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the



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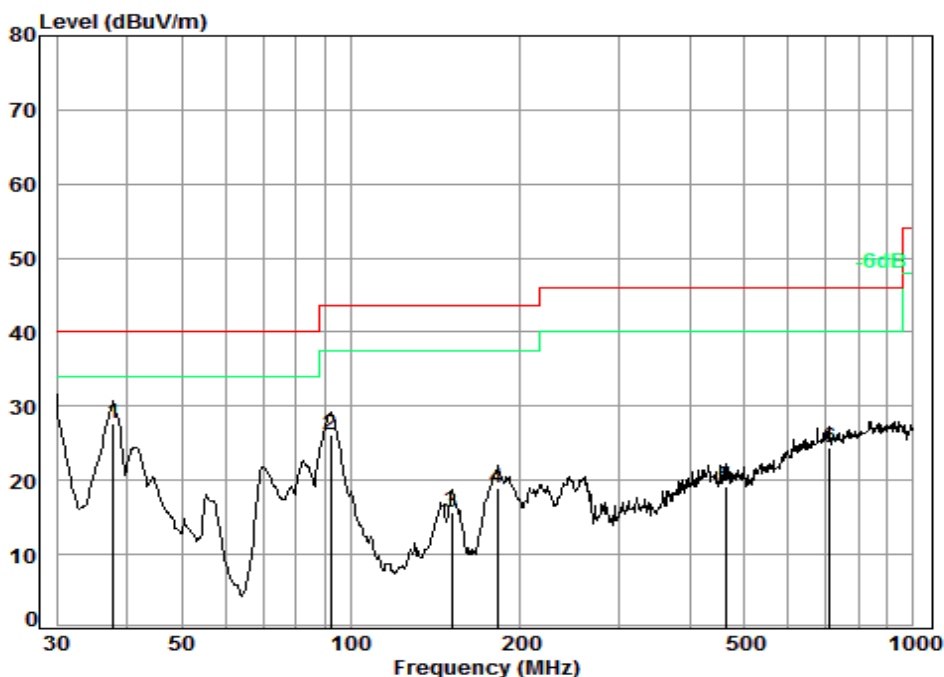
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|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p> |
| Exploratory Test Mode: | <p>Transmitting with all kind of modulations, data rates.</p> <p>Transmitting mode</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Final Test Mode:       | <p>Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case</p> <p>Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;<br/>6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.</p> <p>Only the worst case is recorded in the report.</p>                                 |
| Instruments Used:      | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



### 6.8.1 Radiated emission below 1GHz

| 30MHz~1GHz (QP) |              |          |
|-----------------|--------------|----------|
| Test mode:      | Transmitting | Vertical |



Condition: 3m Vertical

Job No. : 8522RG

Test mode: 2.4G TX

|      | Freq   | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   |
|------|--------|------------|------------|---------------|------------|--------|--------|--------|
|      | MHz    | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |
| 1 pp | 37.81  | 0.60       | 14.33      | 27.33         | 40.07      | 27.67  | 40.00  | -12.33 |
| 2    | 92.14  | 1.12       | 8.79       | 27.21         | 43.40      | 26.10  | 43.50  | -17.40 |
| 3    | 151.07 | 1.32       | 9.06       | 26.90         | 32.19      | 15.67  | 43.50  | -27.83 |
| 4    | 182.56 | 1.37       | 9.95       | 26.77         | 34.50      | 19.05  | 43.50  | -24.45 |
| 5    | 463.97 | 2.47       | 17.40      | 27.52         | 26.91      | 19.26  | 46.00  | -26.74 |
| 6    | 709.18 | 2.93       | 21.60      | 27.40         | 27.18      | 24.31  | 46.00  | -21.69 |

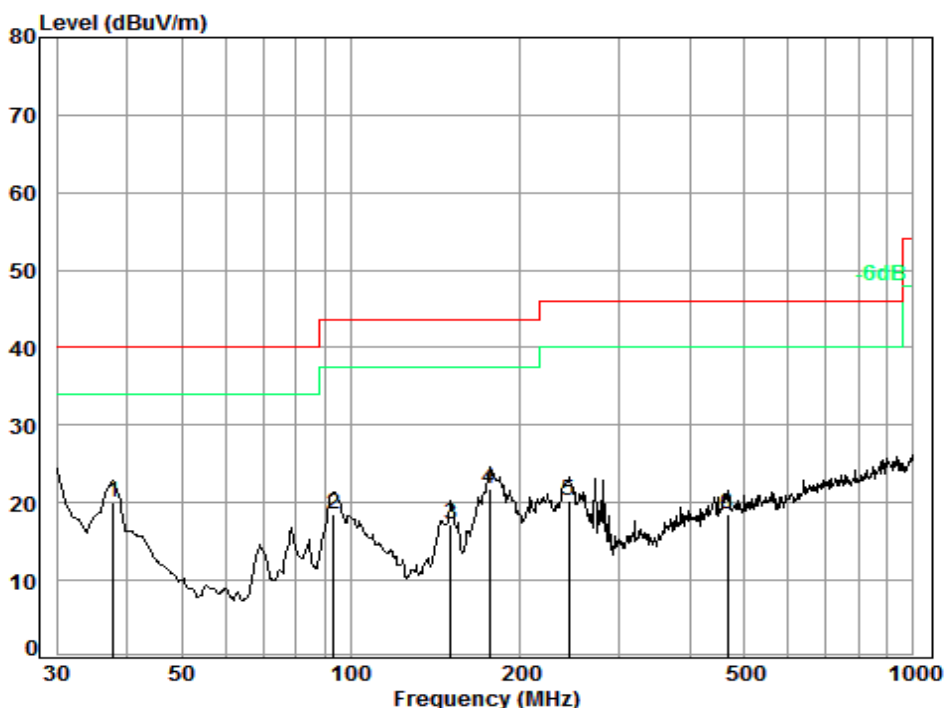


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|            |              |            |
|------------|--------------|------------|
| Test mode: | Transmitting | Horizontal |
|------------|--------------|------------|



Condition: 3m HORIZONTAL

Job No. : 8522RG

Test mode: 2.4G TX

|   |      | Cable  | Ant    | Preamp | Read  |        | Limit  | Over  |        |
|---|------|--------|--------|--------|-------|--------|--------|-------|--------|
|   | Freq | Loss   | Factor | Factor | Level | Level  | Line   | Limit |        |
|   | MHz  | dB     | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB    |        |
| 1 | pp   | 37.81  | 0.60   | 14.33  | 27.33 | 32.36  | 19.96  | 40.00 | -20.04 |
| 2 |      | 93.11  | 1.13   | 8.82   | 27.21 | 35.69  | 18.43  | 43.50 | -25.07 |
| 3 |      | 150.54 | 1.32   | 9.03   | 26.90 | 33.74  | 17.19  | 43.50 | -26.31 |
| 4 |      | 176.27 | 1.36   | 9.75   | 26.79 | 37.42  | 21.74  | 43.50 | -21.76 |
| 5 |      | 244.23 | 1.65   | 12.12  | 26.55 | 33.05  | 20.27  | 46.00 | -25.73 |
| 6 |      | 467.24 | 2.48   | 17.52  | 27.54 | 26.10  | 18.56  | 46.00 | -27.44 |



## 6.8.2 Transmitter emission above 1GHz

### Antenna 0:

Antenna 0:

| Test mode:      |                        | 802.11b         |                    | Test channel:     |                | Lowest              |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3814.467        | 33.10                  | 7.75            | 38.62              | 44.69             | 46.92          | 74.00               | -27.08          | Vertical     |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 41.77             | 45.82          | 74.00               | -28.18          | Vertical     |  |      |  |
| 5845.324        | 34.61                  | 10.13           | 39.01              | 45.21             | 50.94          | 74.00               | -23.06          | Vertical     |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.37             | 51.31          | 74.00               | -22.69          | Vertical     |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.50             | 52.58          | 74.00               | -21.42          | Vertical     |  |      |  |
| 11808.790       | 38.41                  | 14.36           | 38.12              | 39.13             | 53.78          | 74.00               | -20.22          | Vertical     |  |      |  |
| 3610.398        | 32.53                  | 7.67            | 38.52              | 44.59             | 46.27          | 74.00               | -27.73          | Horizontal   |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 41.95             | 46.00          | 74.00               | -28.00          | Horizontal   |  |      |  |
| 5921.940        | 34.65                  | 10.34           | 39.01              | 44.29             | 50.27          | 74.00               | -23.73          | Horizontal   |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.53             | 51.47          | 74.00               | -22.53          | Horizontal   |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 38.98             | 52.06          | 74.00               | -21.94          | Horizontal   |  |      |  |
| 12208.390       | 38.73                  | 14.39           | 38.52              | 38.44             | 53.04          | 74.00               | -20.96          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11b         |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3786.970        | 33.03                  | 7.74            | 38.60              | 44.85                | 47.02                   | 74.00          | -26.98          | Vertical     |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 42.38                | 46.58                   | 74.00          | -27.42          | Vertical     |  |      |  |
| 6184.658        | 34.85                  | 10.32           | 38.88              | 44.75                | 51.04                   | 74.00          | -22.96          | Vertical     |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 42.34                | 51.36                   | 74.00          | -22.64          | Vertical     |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.13                | 52.34                   | 74.00          | -21.66          | Vertical     |  |      |  |
| 11706.720       | 38.31                  | 14.24           | 38.02              | 38.96                | 53.49                   | 74.00          | -20.51          | Vertical     |  |      |  |
| 3579.190        | 32.43                  | 7.66            | 38.51              | 44.67                | 46.25                   | 74.00          | -27.75          | Horizontal   |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 42.33                | 46.53                   | 74.00          | -27.47          | Horizontal   |  |      |  |
| 5947.702        | 34.67                  | 10.42           | 39.00              | 45.23                | 51.32                   | 74.00          | -22.68          | Horizontal   |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.32                | 50.34                   | 74.00          | -23.66          | Horizontal   |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.09                | 52.30                   | 74.00          | -21.70          | Horizontal   |  |      |  |
| 12314.840       | 38.79                  | 14.30           | 38.62              | 39.08                | 53.55                   | 74.00          | -20.45          | Horizontal   |  |      |  |



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|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3786.970        | 33.03                  | 7.74            | 38.60              | 44.85                | 47.02                   | 74.00          | -26.98          | Vertical     |      |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 44.79                | 49.13                   | 74.00          | -24.87          | Vertical     |      |
| 6184.658        | 34.85                  | 10.32           | 38.88              | 44.75                | 51.04                   | 74.00          | -22.96          | Vertical     |      |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 41.85                | 50.94                   | 74.00          | -23.06          | Vertical     |      |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.42                | 52.75                   | 74.00          | -21.25          | Vertical     |      |
| 12386.320       | 38.83                  | 14.24           | 38.70              | 38.81                | 53.18                   | 74.00          | -20.82          | Vertical     |      |
| 4082.894        | 33.60                  | 7.92            | 38.74              | 44.94                | 47.72                   | 74.00          | -26.28          | Horizontal   |      |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 43.09                | 47.43                   | 74.00          | -26.57          | Horizontal   |      |
| 6202.582        | 34.87                  | 10.30           | 38.87              | 43.60                | 49.90                   | 74.00          | -24.10          | Horizontal   |      |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 40.12                | 49.21                   | 74.00          | -24.79          | Horizontal   |      |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 38.67                | 52.00                   | 74.00          | -22.00          | Horizontal   |      |
| 12067.890       | 38.64                  | 14.50           | 38.37              | 38.99                | 53.76                   | 74.00          | -20.24          | Horizontal   |      |

| Test mode:      |                        | 802.11g         |                    | Test channel:        |                         | Lowest         |                 | Remark:      | Peak |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3527.774        | 32.28                  | 7.64            | 38.48              | 43.52                | 44.96                   | 74.00          | -29.04          | Vertical     |      |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 41.07                | 45.12                   | 74.00          | -28.88          | Vertical     |      |
| 5896.291        | 34.64                  | 10.27           | 39.01              | 44.15                | 50.05                   | 74.00          | -23.95          | Vertical     |      |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 41.19                | 50.13                   | 74.00          | -23.87          | Vertical     |      |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 38.39                | 51.47                   | 74.00          | -22.53          | Vertical     |      |
| 12261.500       | 38.76                  | 14.34           | 38.57              | 39.33                | 53.86                   | 74.00          | -20.14          | Vertical     |      |
| 3636.612        | 32.60                  | 7.68            | 38.53              | 44.23                | 45.98                   | 74.00          | -28.02          | Horizontal   |      |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 42.34                | 46.39                   | 74.00          | -27.61          | Horizontal   |      |
| 5921.940        | 34.65                  | 10.34           | 39.01              | 44.67                | 50.65                   | 74.00          | -23.35          | Horizontal   |      |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.14                | 51.08                   | 74.00          | -22.92          | Horizontal   |      |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.67                | 52.75                   | 74.00          | -21.25          | Horizontal   |      |
| 12243.770       | 38.75                  | 14.36           | 38.55              | 38.96                | 53.52                   | 74.00          | -20.48          | Horizontal   |      |



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|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3748.808        | 32.92                  | 7.72            | 38.59              | 45.16                | 47.21                   | 74.00          | -26.79          | Vertical     |      |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 43.10                | 47.30                   | 74.00          | -26.70          | Vertical     |      |
| 6069.413        | 34.76                  | 10.47           | 38.96              | 44.20                | 50.47                   | 74.00          | -23.53          | Vertical     |      |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 40.48                | 49.50                   | 74.00          | -24.50          | Vertical     |      |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.00                | 52.21                   | 74.00          | -21.79          | Vertical     |      |
| 12050.440       | 38.63                  | 14.52           | 38.35              | 39.15                | 53.95                   | 74.00          | -20.05          | Vertical     |      |
| 3831.060        | 33.15                  | 7.75            | 38.62              | 44.26                | 46.54                   | 74.00          | -27.46          | Horizontal   |      |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.42                | 45.62                   | 74.00          | -28.38          | Horizontal   |      |
| 6175.716        | 34.84                  | 10.33           | 38.89              | 44.14                | 50.42                   | 74.00          | -23.58          | Horizontal   |      |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.36                | 50.38                   | 74.00          | -23.62          | Horizontal   |      |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 38.93                | 52.14                   | 74.00          | -21.86          | Horizontal   |      |
| 12050.440       | 38.63                  | 14.52           | 38.35              | 38.24                | 53.04                   | 74.00          | -20.96          | Horizontal   |      |

| Test mode:      |                        | 802.11g         |                    | Test channel:        |                         | Highest        |                 | Remark:      | Peak |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3960.700        | 33.50                  | 7.80            | 38.68              | 43.83                | 46.45                   | 74.00          | -27.55          | Vertical     |      |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 41.64                | 45.98                   | 74.00          | -28.02          | Vertical     |      |
| 6051.874        | 34.74                  | 10.49           | 38.97              | 44.42                | 50.68                   | 74.00          | -23.32          | Vertical     |      |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 40.75                | 49.84                   | 74.00          | -24.16          | Vertical     |      |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 38.92                | 52.25                   | 74.00          | -21.75          | Vertical     |      |
| 12208.390       | 38.73                  | 14.39           | 38.52              | 38.46                | 53.06                   | 74.00          | -20.94          | Vertical     |      |
| 3847.726        | 33.19                  | 7.76            | 38.63              | 44.36                | 46.68                   | 74.00          | -27.32          | Horizontal   |      |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 43.12                | 47.46                   | 74.00          | -26.54          | Horizontal   |      |
| 6175.716        | 34.84                  | 10.33           | 38.89              | 44.14                | 50.42                   | 74.00          | -23.58          | Horizontal   |      |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 41.13                | 50.22                   | 74.00          | -23.78          | Horizontal   |      |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 38.63                | 51.96                   | 74.00          | -22.04          | Horizontal   |      |
| 12050.440       | 38.63                  | 14.52           | 38.35              | 38.24                | 53.04                   | 74.00          | -20.96          | Horizontal   |      |



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|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3759.672        | 32.95                  | 7.73            | 38.59              | 45.31                | 47.40                   | 74.00          | -26.60          | Vertical     |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 42.10                | 46.15                   | 74.00          | -27.85          | Vertical     |  |      |  |
| 6051.874        | 34.74                  | 10.49           | 38.97              | 44.42                | 50.68                   | 74.00          | -23.32          | Vertical     |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 41.59                | 50.53                   | 74.00          | -23.47          | Vertical     |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.21                | 52.29                   | 74.00          | -21.71          | Vertical     |  |      |  |
| 12085.370       | 38.65                  | 14.49           | 38.39              | 39.18                | 53.93                   | 74.00          | -20.07          | Vertical     |  |      |  |
| 3847.726        | 33.19                  | 7.76            | 38.63              | 43.98                | 46.30                   | 74.00          | -27.70          | Horizontal   |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 41.26                | 45.31                   | 74.00          | -28.69          | Horizontal   |  |      |  |
| 5904.828        | 34.64                  | 10.30           | 39.01              | 43.48                | 49.41                   | 74.00          | -24.59          | Horizontal   |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 40.42                | 49.36                   | 74.00          | -24.64          | Horizontal   |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 38.01                | 51.09                   | 74.00          | -22.91          | Horizontal   |  |      |  |
| 12297.040       | 38.78                  | 14.31           | 38.61              | 39.20                | 53.68                   | 74.00          | -20.32          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3842.163        | 33.18                  | 7.76            | 38.63              | 43.76                | 46.07                   | 74.00          | -27.93          | Vertical     |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.74                | 45.94                   | 74.00          | -28.06          | Vertical     |  |      |  |
| 6113.481        | 34.79                  | 10.41           | 38.93              | 44.73                | 51.00                   | 74.00          | -23.00          | Vertical     |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 40.78                | 49.80                   | 74.00          | -24.20          | Vertical     |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.38                | 52.59                   | 74.00          | -21.41          | Vertical     |  |      |  |
| 12243.770       | 38.75                  | 14.36           | 38.55              | 38.68                | 53.24                   | 74.00          | -20.76          | Vertical     |  |      |  |
| 3847.726        | 33.19                  | 7.76            | 38.63              | 43.98                | 46.30                   | 74.00          | -27.70          | Horizontal   |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 42.16                | 46.36                   | 74.00          | -27.64          | Horizontal   |  |      |  |
| 6060.637        | 34.75                  | 10.48           | 38.96              | 43.82                | 50.09                   | 74.00          | -23.91          | Horizontal   |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.26                | 50.28                   | 74.00          | -23.72          | Horizontal   |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 38.82                | 52.03                   | 74.00          | -21.97          | Horizontal   |  |      |  |
| 11774.670       | 38.38                  | 14.32           | 38.08              | 39.23                | 53.85                   | 74.00          | -20.15          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3842.163        | 33.18                  | 7.76            | 38.63              | 44.42                | 46.73                   | 74.00          | -27.27          | Vertical     |  |      |  |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 42.72                | 47.06                   | 74.00          | -26.94          | Vertical     |  |      |  |
| 6113.481        | 34.79                  | 10.41           | 38.93              | 44.73                | 51.00                   | 74.00          | -23.00          | Vertical     |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 41.52                | 50.61                   | 74.00          | -23.39          | Vertical     |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.00                | 52.33                   | 74.00          | -21.67          | Vertical     |  |      |  |
| 12243.770       | 38.75                  | 14.36           | 38.55              | 38.44                | 53.00                   | 74.00          | -21.00          | Vertical     |  |      |  |
| 3759.672        | 32.95                  | 7.73            | 38.59              | 43.61                | 45.70                   | 74.00          | -28.30          | Horizontal   |  |      |  |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 43.24                | 47.58                   | 74.00          | -26.42          | Horizontal   |  |      |  |
| 6113.481        | 34.79                  | 10.41           | 38.93              | 42.36                | 48.63                   | 74.00          | -25.37          | Horizontal   |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 40.89                | 49.98                   | 74.00          | -24.02          | Horizontal   |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 38.05                | 51.38                   | 74.00          | -22.62          | Horizontal   |  |      |  |
| 12067.890       | 38.64                  | 14.50           | 38.37              | 39.02                | 53.79                   | 74.00          | -20.21          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3563.687        | 32.39                  | 7.65            | 38.50              | 44.89                | 46.43                   | 74.00          | -27.57          | Vertical     |  |      |  |
| 4844.000        | 34.23                  | 8.92            | 39.04              | 40.43                | 44.54                   | 74.00          | -29.46          | Vertical     |  |      |  |
| 5956.314        | 34.67                  | 10.44           | 39.00              | 44.93                | 51.04                   | 74.00          | -22.96          | Vertical     |  |      |  |
| 7266.000        | 36.39                  | 10.70           | 38.12              | 40.73                | 49.70                   | 74.00          | -24.30          | Vertical     |  |      |  |
| 9688.000        | 37.54                  | 12.54           | 36.95              | 38.79                | 51.92                   | 74.00          | -22.08          | Vertical     |  |      |  |
| 11998.250       | 38.60                  | 14.56           | 38.30              | 38.34                | 53.20                   | 74.00          | -20.80          | Vertical     |  |      |  |
| 3864.464        | 33.24                  | 7.76            | 38.64              | 44.37                | 46.73                   | 74.00          | -27.27          | Horizontal   |  |      |  |
| 4844.000        | 34.23                  | 8.92            | 39.04              | 41.88                | 45.99                   | 74.00          | -28.01          | Horizontal   |  |      |  |
| 6025.661        | 34.72                  | 10.53           | 38.98              | 43.45                | 49.72                   | 74.00          | -24.28          | Horizontal   |  |      |  |
| 7266.000        | 36.39                  | 10.70           | 38.12              | 41.71                | 50.68                   | 74.00          | -23.32          | Horizontal   |  |      |  |
| 9688.000        | 37.54                  | 12.54           | 36.95              | 39.82                | 52.95                   | 74.00          | -21.05          | Horizontal   |  |      |  |
| 12261.500       | 38.76                  | 14.34           | 38.57              | 39.25                | 53.78                   | 74.00          | -20.22          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3759.672        | 32.95                  | 7.73            | 38.59              | 43.73                | 45.82                   | 74.00          | -28.18          | Vertical     |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 42.14                | 46.34                   | 74.00          | -27.66          | Vertical     |  |      |  |
| 5956.314        | 34.67                  | 10.44           | 39.00              | 44.93                | 51.04                   | 74.00          | -22.96          | Vertical     |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.24                | 50.26                   | 74.00          | -23.74          | Vertical     |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.79                | 53.00                   | 74.00          | -21.00          | Vertical     |  |      |  |
| 11998.250       | 38.60                  | 14.56           | 38.30              | 38.34                | 53.20                   | 74.00          | -20.80          | Vertical     |  |      |  |
| 3781.495        | 33.01                  | 7.73            | 38.60              | 44.65                | 46.79                   | 74.00          | -27.21          | Horizontal   |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.40                | 45.60                   | 74.00          | -28.40          | Horizontal   |  |      |  |
| 6087.002        | 34.77                  | 10.45           | 38.94              | 44.32                | 50.60                   | 74.00          | -23.40          | Horizontal   |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.33                | 50.35                   | 74.00          | -23.65          | Horizontal   |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.45                | 52.66                   | 74.00          | -21.34          | Horizontal   |  |      |  |
| 12243.770       | 38.75                  | 14.36           | 38.55              | 38.90                | 53.46                   | 74.00          | -20.54          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3825.521        | 33.13                  | 7.75            | 38.62              | 44.37                | 46.63                   | 74.00          | -27.37          | Vertical     |  |      |  |
| 4904.000        | 34.33                  | 9.01            | 39.07              | 42.45                | 46.72                   | 74.00          | -27.28          | Vertical     |  |      |  |
| 6078.201        | 34.76                  | 10.46           | 38.95              | 44.54                | 50.81                   | 74.00          | -23.19          | Vertical     |  |      |  |
| 7356.000        | 36.36                  | 10.74           | 38.03              | 40.98                | 50.05                   | 74.00          | -23.95          | Vertical     |  |      |  |
| 9808.000        | 37.56                  | 12.61           | 36.89              | 39.00                | 52.28                   | 74.00          | -21.72          | Vertical     |  |      |  |
| 12314.840       | 38.79                  | 14.30           | 38.62              | 39.09                | 53.56                   | 74.00          | -20.44          | Vertical     |  |      |  |
| 3792.453        | 33.04                  | 7.74            | 38.61              | 43.44                | 45.61                   | 74.00          | -28.39          | Horizontal   |  |      |  |
| 4904.000        | 34.33                  | 9.01            | 39.07              | 42.66                | 46.93                   | 74.00          | -27.07          | Horizontal   |  |      |  |
| 6025.661        | 34.72                  | 10.53           | 38.98              | 42.84                | 49.11                   | 74.00          | -24.89          | Horizontal   |  |      |  |
| 7356.000        | 36.36                  | 10.74           | 38.03              | 41.42                | 50.49                   | 74.00          | -23.51          | Horizontal   |  |      |  |
| 9808.000        | 37.56                  | 12.61           | 36.89              | 38.99                | 52.27                   | 74.00          | -21.73          | Horizontal   |  |      |  |
| 12261.500       | 38.76                  | 14.34           | 38.57              | 39.22                | 53.75                   | 74.00          | -20.25          | Horizontal   |  |      |  |



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## Antenna 1:

| Test mode:      |                        | 802.11b         |                    | Test channel:     |                | Lowest              |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3831.060        | 33.15                  | 7.75            | 38.62              | 45.07             | 47.35          | 74.00               | -26.65          | Vertical     |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 42.48             | 46.53          | 74.00               | -27.47          | Vertical     |  |      |  |
| 6078.201        | 34.76                  | 10.46           | 38.95              | 44.69             | 50.96          | 74.00               | -23.04          | Vertical     |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.23             | 51.17          | 74.00               | -22.83          | Vertical     |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.27             | 52.35          | 74.00               | -21.65          | Vertical     |  |      |  |
| 12155.510       | 38.69                  | 14.43           | 38.46              | 38.52             | 53.18          | 74.00               | -20.82          | Vertical     |  |      |  |
| 3584.372        | 32.45                  | 7.66            | 38.51              | 44.42             | 46.02          | 74.00               | -27.98          | Horizontal   |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 43.21             | 47.26          | 74.00               | -26.74          | Horizontal   |  |      |  |
| 6034.386        | 34.73                  | 10.52           | 38.98              | 45.05             | 51.32          | 74.00               | -22.68          | Horizontal   |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.79             | 51.73          | 74.00               | -22.27          | Horizontal   |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.94             | 53.02          | 74.00               | -20.98          | Horizontal   |  |      |  |
| 12085.370       | 38.65                  | 14.49           | 38.39              | 39.00             | 53.75          | 74.00               | -20.25          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11b         |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3792.453        | 33.04                  | 7.74            | 38.61              | 44.63                | 46.80                   | 74.00          | -27.20          | Vertical     |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 43.29                | 47.49                   | 74.00          | -26.51          | Vertical     |  |      |  |
| 6025.661        | 34.72                  | 10.53           | 38.98              | 44.34                | 50.61                   | 74.00          | -23.39          | Vertical     |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 42.49                | 51.51                   | 74.00          | -22.49          | Vertical     |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.02                | 52.23                   | 74.00          | -21.77          | Vertical     |  |      |  |
| 12297.040       | 38.78                  | 14.31           | 38.61              | 39.45                | 53.93                   | 74.00          | -20.07          | Vertical     |  |      |  |
| 3831.060        | 33.15                  | 7.75            | 38.62              | 44.60                | 46.88                   | 74.00          | -27.12          | Horizontal   |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 43.25                | 47.45                   | 74.00          | -26.55          | Horizontal   |  |      |  |
| 6175.716        | 34.84                  | 10.33           | 38.89              | 44.19                | 50.47                   | 74.00          | -23.53          | Horizontal   |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 43.21                | 52.23                   | 74.00          | -21.77          | Horizontal   |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 40.33                | 53.54                   | 74.00          | -20.46          | Horizontal   |  |      |  |
| 12476.260       | 38.89                  | 14.17           | 38.79              | 39.55                | 53.82                   | 74.00          | -20.18          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11b         |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 4035.906        | 33.60                  | 7.86            | 38.72              | 44.14                | 46.88                   | 74.00          | -27.12          | Vertical     |  |      |  |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 43.08                | 47.42                   | 74.00          | -26.58          | Vertical     |  |      |  |
| 6069.413        | 34.76                  | 10.47           | 38.96              | 44.27                | 50.54                   | 74.00          | -23.46          | Vertical     |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 42.99                | 52.08                   | 74.00          | -21.92          | Vertical     |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.72                | 53.05                   | 74.00          | -20.95          | Vertical     |  |      |  |
| 11877.340       | 38.48                  | 14.43           | 38.18              | 39.22                | 53.95                   | 74.00          | -20.05          | Vertical     |  |      |  |
| 3652.432        | 32.65                  | 7.69            | 38.54              | 43.82                | 45.62                   | 74.00          | -28.38          | Horizontal   |  |      |  |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 43.16                | 47.50                   | 74.00          | -26.50          | Horizontal   |  |      |  |
| 6220.557        | 34.88                  | 10.28           | 38.86              | 42.52                | 48.82                   | 74.00          | -25.18          | Horizontal   |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 42.99                | 52.08                   | 74.00          | -21.92          | Horizontal   |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.58                | 52.91                   | 74.00          | -21.09          | Horizontal   |  |      |  |
| 12639.790       | 38.87                  | 14.55           | 38.95              | 38.75                | 53.22                   | 74.00          | -20.78          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11g         |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3579.190        | 32.43                  | 7.66            | 38.51              | 43.27                | 44.85                   | 74.00          | -29.15          | Vertical     |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 42.78                | 46.83                   | 74.00          | -27.17          | Vertical     |  |      |  |
| 6148.967        | 34.82                  | 10.37           | 38.90              | 43.45                | 49.74                   | 74.00          | -24.26          | Vertical     |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.19                | 51.13                   | 74.00          | -22.87          | Vertical     |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.99                | 53.07                   | 74.00          | -20.93          | Vertical     |  |      |  |
| 12085.370       | 38.65                  | 14.49           | 38.39              | 39.07                | 53.82                   | 74.00          | -20.18          | Vertical     |  |      |  |
| 3915.118        | 33.38                  | 7.78            | 38.66              | 43.06                | 45.56                   | 74.00          | -28.44          | Horizontal   |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 42.98                | 47.03                   | 74.00          | -26.97          | Horizontal   |  |      |  |
| 6008.249        | 34.71                  | 10.55           | 38.99              | 42.78                | 49.05                   | 74.00          | -24.95          | Horizontal   |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.58                | 51.52                   | 74.00          | -22.48          | Horizontal   |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.37                | 52.45                   | 74.00          | -21.55          | Horizontal   |  |      |  |
| 11980.900       | 38.58                  | 14.54           | 38.28              | 38.37                | 53.21                   | 74.00          | -20.79          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11g         |                    | Test channel:        |                         | Middle         |                 | Remark:      | Peak |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3711.030        | 32.81                  | 7.71            | 38.57              | 42.71                | 44.66                   | 74.00          | -29.34          | Vertical     |      |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 43.49                | 47.69                   | 74.00          | -26.31          | Vertical     |      |
| 5956.314        | 34.67                  | 10.44           | 39.00              | 43.59                | 49.70                   | 74.00          | -24.30          | Vertical     |      |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 43.22                | 52.24                   | 74.00          | -21.76          | Vertical     |      |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 40.22                | 53.43                   | 74.00          | -20.57          | Vertical     |      |
| 12226.070       | 38.74                  | 14.37           | 38.53              | 39.18                | 53.76                   | 74.00          | -20.24          | Vertical     |      |
| 3700.306        | 32.78                  | 7.71            | 38.56              | 40.45                | 42.38                   | 74.00          | -31.62          | Horizontal   |      |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.69                | 45.89                   | 74.00          | -28.11          | Horizontal   |      |
| 6060.637        | 34.75                  | 10.48           | 38.96              | 43.27                | 49.54                   | 74.00          | -24.46          | Horizontal   |      |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.38                | 50.40                   | 74.00          | -23.60          | Horizontal   |      |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.01                | 52.22                   | 74.00          | -21.78          | Horizontal   |      |
| 12067.890       | 38.64                  | 14.50           | 38.37              | 38.46                | 53.23                   | 74.00          | -20.77          | Horizontal   |      |

| Test mode:      |                        | 802.11g         |                    | Test channel:        |                         | Highest        |                 | Remark:      | Peak |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3803.444        | 33.07                  | 7.74            | 38.61              | 41.39                | 43.59                   | 74.00          | -30.41          | Vertical     |      |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 42.60                | 46.94                   | 74.00          | -27.06          | Vertical     |      |
| 6034.386        | 34.73                  | 10.52           | 38.98              | 42.51                | 48.78                   | 74.00          | -25.22          | Vertical     |      |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 40.98                | 50.07                   | 74.00          | -23.93          | Vertical     |      |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.12                | 52.45                   | 74.00          | -21.55          | Vertical     |      |
| 12120.390       | 38.67                  | 14.46           | 38.42              | 38.70                | 53.41                   | 74.00          | -20.59          | Vertical     |      |
| 3684.279        | 32.74                  | 7.70            | 38.56              | 41.72                | 43.60                   | 74.00          | -30.40          | Horizontal   |      |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 43.99                | 48.33                   | 74.00          | -25.67          | Horizontal   |      |
| 6034.386        | 34.73                  | 10.52           | 38.98              | 42.55                | 48.82                   | 74.00          | -25.18          | Horizontal   |      |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 40.72                | 49.81                   | 74.00          | -24.19          | Horizontal   |      |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.26                | 52.59                   | 74.00          | -21.41          | Horizontal   |      |
| 12102.870       | 38.66                  | 14.47           | 38.41              | 38.39                | 53.11                   | 74.00          | -20.89          | Horizontal   |      |



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| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3836.607        | 33.16                  | 7.75            | 38.63              | 43.16                | 45.44                   | 74.00          | -28.56          | Vertical     |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 43.64                | 47.69                   | 74.00          | -26.31          | Vertical     |  |      |  |
| 5828.433        | 34.60                  | 10.08           | 39.02              | 43.63                | 49.29                   | 74.00          | -24.71          | Vertical     |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 41.82                | 50.76                   | 74.00          | -23.24          | Vertical     |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.76                | 52.84                   | 74.00          | -21.16          | Vertical     |  |      |  |
| 12190.740       | 38.72                  | 14.40           | 38.50              | 38.71                | 53.33                   | 74.00          | -20.67          | Vertical     |  |      |  |
| 3920.787        | 33.39                  | 7.78            | 38.67              | 44.93                | 47.43                   | 74.00          | -26.57          | Horizontal   |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 43.64                | 47.69                   | 74.00          | -26.31          | Horizontal   |  |      |  |
| 5964.939        | 34.68                  | 10.46           | 39.00              | 44.04                | 50.18                   | 74.00          | -23.82          | Horizontal   |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.37                | 51.31                   | 74.00          | -22.69          | Horizontal   |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.33                | 52.41                   | 74.00          | -21.59          | Horizontal   |  |      |  |
| 12190.740       | 38.72                  | 14.40           | 38.50              | 38.71                | 53.33                   | 74.00          | -20.67          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3825.521        | 33.13                  | 7.75            | 38.62              | 41.32                | 43.58                   | 74.00          | -30.42          | Vertical     |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.64                | 45.84                   | 74.00          | -28.16          | Vertical     |  |      |  |
| 6166.787        | 34.84                  | 10.34           | 38.89              | 43.16                | 49.45                   | 74.00          | -24.55          | Vertical     |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.31                | 50.33                   | 74.00          | -23.67          | Vertical     |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 38.97                | 52.18                   | 74.00          | -21.82          | Vertical     |  |      |  |
| 11877.340       | 38.48                  | 14.43           | 38.18              | 39.13                | 53.86                   | 74.00          | -20.14          | Vertical     |  |      |  |
| 3589.562        | 32.46                  | 7.66            | 38.51              | 45.06                | 46.67                   | 74.00          | -27.33          | Horizontal   |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 42.07                | 46.27                   | 74.00          | -27.73          | Horizontal   |  |      |  |
| 6095.816        | 34.78                  | 10.44           | 38.94              | 42.59                | 48.87                   | 74.00          | -25.13          | Horizontal   |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 42.18                | 51.20                   | 74.00          | -22.80          | Horizontal   |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.66                | 52.87                   | 74.00          | -21.13          | Horizontal   |  |      |  |
| 12067.890       | 38.64                  | 14.50           | 38.37              | 38.30                | 53.07                   | 74.00          | -20.93          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3853.298        | 33.21                  | 7.76            | 38.64              | 43.04                | 45.37                   | 74.00          | -28.63          | Vertical     |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 44.44                | 48.49                   | 74.00          | -25.51          | Vertical     |  |      |  |
| 6060.637        | 34.75                  | 10.48           | 38.96              | 43.35                | 49.62                   | 74.00          | -24.38          | Vertical     |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 41.54                | 50.63                   | 74.00          | -23.37          | Vertical     |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.00                | 52.33                   | 74.00          | -21.67          | Vertical     |  |      |  |
| 12102.870       | 38.66                  | 14.47           | 38.41              | 38.42                | 53.14                   | 74.00          | -20.86          | Vertical     |  |      |  |
| 3825.521        | 33.13                  | 7.75            | 38.62              | 42.60                | 44.86                   | 74.00          | -29.14          | Horizontal   |  |      |  |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 42.20                | 46.54                   | 74.00          | -27.46          | Horizontal   |  |      |  |
| 6008.249        | 34.71                  | 10.55           | 38.99              | 42.79                | 49.06                   | 74.00          | -24.94          | Horizontal   |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 40.51                | 49.60                   | 74.00          | -24.40          | Horizontal   |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.39                | 52.72                   | 74.00          | -21.28          | Horizontal   |  |      |  |
| 12120.390       | 38.67                  | 14.46           | 38.42              | 38.34                | 53.05                   | 74.00          | -20.95          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3831.060        | 33.15                  | 7.75            | 38.62              | 44.29                | 46.57                   | 74.00          | -27.43          | Vertical     |  |      |  |
| 4844.000        | 34.23                  | 8.92            | 39.04              | 41.66                | 45.77                   | 74.00          | -28.23          | Vertical     |  |      |  |
| 6034.386        | 34.73                  | 10.52           | 38.98              | 44.53                | 50.80                   | 74.00          | -23.20          | Vertical     |  |      |  |
| 7266.000        | 36.39                  | 10.70           | 38.12              | 41.98                | 50.95                   | 74.00          | -23.05          | Vertical     |  |      |  |
| 9688.000        | 37.54                  | 12.54           | 36.95              | 39.43                | 52.56                   | 74.00          | -21.44          | Vertical     |  |      |  |
| 12314.840       | 38.79                  | 14.30           | 38.62              | 39.13                | 53.60                   | 74.00          | -20.40          | Vertical     |  |      |  |
| 3631.354        | 32.59                  | 7.68            | 38.53              | 43.63                | 45.37                   | 74.00          | -28.63          | Horizontal   |  |      |  |
| 4844.000        | 34.23                  | 8.92            | 39.04              | 41.92                | 46.03                   | 74.00          | -27.97          | Horizontal   |  |      |  |
| 5820.005        | 34.59                  | 10.06           | 39.02              | 44.34                | 49.97                   | 74.00          | -24.03          | Horizontal   |  |      |  |
| 7266.000        | 36.39                  | 10.70           | 38.12              | 43.34                | 52.31                   | 74.00          | -21.69          | Horizontal   |  |      |  |
| 9688.000        | 37.54                  | 12.54           | 36.95              | 39.50                | 52.63                   | 74.00          | -21.37          | Horizontal   |  |      |  |
| 12067.890       | 38.64                  | 14.50           | 38.37              | 39.15                | 53.92                   | 74.00          | -20.08          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Middle         |                 | Remark:      | Peak |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3786.970        | 33.03                  | 7.74            | 38.60              | 45.21                | 47.38                   | 74.00          | -26.62          | Vertical     |      |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.14                | 45.34                   | 74.00          | -28.66          | Vertical     |      |
| 5939.103        | 34.66                  | 10.39           | 39.01              | 44.15                | 50.19                   | 74.00          | -23.81          | Vertical     |      |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 40.63                | 49.65                   | 74.00          | -24.35          | Vertical     |      |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 38.81                | 52.02                   | 74.00          | -21.98          | Vertical     |      |
| 12297.040       | 38.78                  | 14.31           | 38.61              | 38.79                | 53.27                   | 74.00          | -20.73          | Vertical     |      |
| 3803.444        | 33.07                  | 7.74            | 38.61              | 44.46                | 46.66                   | 74.00          | -27.34          | Horizontal   |      |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 42.45                | 46.65                   | 74.00          | -27.35          | Horizontal   |      |
| 5947.702        | 34.67                  | 10.42           | 39.00              | 44.55                | 50.64                   | 74.00          | -23.36          | Horizontal   |      |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 42.15                | 51.17                   | 74.00          | -22.83          | Horizontal   |      |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 39.23                | 52.44                   | 74.00          | -21.56          | Horizontal   |      |
| 12067.890       | 38.64                  | 14.50           | 38.37              | 39.15                | 53.92                   | 74.00          | -20.08          | Horizontal   |      |

| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Highest        |                 | Remark:      | Peak |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|------|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |      |
| 3754.236        | 32.94                  | 7.72            | 38.59              | 44.27                | 46.34                   | 74.00          | -27.66          | Vertical     |      |
| 4904.000        | 34.33                  | 9.01            | 39.07              | 43.21                | 47.48                   | 74.00          | -26.52          | Vertical     |      |
| 6060.637        | 34.75                  | 10.48           | 38.96              | 44.36                | 50.63                   | 74.00          | -23.37          | Vertical     |      |
| 7356.000        | 36.36                  | 10.74           | 38.03              | 41.49                | 50.56                   | 74.00          | -23.44          | Vertical     |      |
| 9808.000        | 37.56                  | 12.61           | 36.89              | 39.45                | 52.73                   | 74.00          | -21.27          | Vertical     |      |
| 12137.940       | 38.68                  | 14.45           | 38.44              | 38.50                | 53.19                   | 74.00          | -20.81          | Vertical     |      |
| 3903.804        | 33.34                  | 7.78            | 38.66              | 43.83                | 46.29                   | 74.00          | -27.71          | Horizontal   |      |
| 4904.000        | 34.33                  | 9.01            | 39.07              | 42.96                | 47.23                   | 74.00          | -26.77          | Horizontal   |      |
| 6202.582        | 34.87                  | 10.30           | 38.87              | 43.78                | 50.08                   | 74.00          | -23.92          | Horizontal   |      |
| 7356.000        | 36.36                  | 10.74           | 38.03              | 41.06                | 50.13                   | 74.00          | -23.87          | Horizontal   |      |
| 9808.000        | 37.56                  | 12.61           | 36.89              | 38.56                | 51.84                   | 74.00          | -22.16          | Horizontal   |      |
| 12226.070       | 38.74                  | 14.37           | 38.53              | 39.41                | 53.99                   | 74.00          | -20.01          | Horizontal   |      |



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| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3765.116        | 32.97                  | 7.73            | 38.59              | 44.53                | 46.64                   | 74.00          | -27.36          | Vertical     |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 42.57                | 46.62                   | 74.00          | -27.38          | Vertical     |  |      |  |
| 6034.386        | 34.73                  | 10.52           | 38.98              | 43.65                | 49.92                   | 74.00          | -24.08          | Vertical     |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 42.14                | 51.08                   | 74.00          | -22.92          | Vertical     |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 39.08                | 52.16                   | 74.00          | -21.84          | Vertical     |  |      |  |
| 12137.940       | 38.68                  | 14.45           | 38.44              | 38.53                | 53.22                   | 74.00          | -20.78          | Vertical     |  |      |  |
| 3579.190        | 32.43                  | 7.66            | 38.51              | 44.75                | 46.33                   | 74.00          | -27.67          | Horizontal   |  |      |  |
| 4824.000        | 34.19                  | 8.90            | 39.04              | 40.70                | 44.75                   | 74.00          | -29.25          | Horizontal   |  |      |  |
| 5956.314        | 34.67                  | 10.44           | 39.00              | 43.64                | 49.75                   | 74.00          | -24.25          | Horizontal   |  |      |  |
| 7236.000        | 36.40                  | 10.69           | 38.15              | 40.61                | 49.55                   | 74.00          | -24.45          | Horizontal   |  |      |  |
| 9648.000        | 37.53                  | 12.52           | 36.97              | 38.97                | 52.05                   | 74.00          | -21.95          | Horizontal   |  |      |  |
| 12226.070       | 38.74                  | 14.37           | 38.53              | 39.04                | 53.62                   | 74.00          | -20.38          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3770.567        | 32.98                  | 7.73            | 38.60              | 42.60                | 44.71                   | 74.00          | -29.29          | Vertical     |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.77                | 45.97                   | 74.00          | -28.03          | Vertical     |  |      |  |
| 6016.949        | 34.71                  | 10.54           | 38.99              | 43.38                | 49.64                   | 74.00          | -24.36          | Vertical     |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 40.46                | 49.48                   | 74.00          | -24.52          | Vertical     |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 37.70                | 50.91                   | 74.00          | -23.09          | Vertical     |  |      |  |
| 12085.370       | 38.65                  | 14.49           | 38.39              | 38.42                | 53.17                   | 74.00          | -20.83          | Vertical     |  |      |  |
| 3647.151        | 32.63                  | 7.69            | 38.54              | 43.35                | 45.13                   | 74.00          | -28.87          | Horizontal   |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.85                | 46.05                   | 74.00          | -27.95          | Horizontal   |  |      |  |
| 6095.816        | 34.78                  | 10.44           | 38.94              | 43.92                | 50.20                   | 74.00          | -23.80          | Horizontal   |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.45                | 50.47                   | 74.00          | -23.53          | Horizontal   |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 38.46                | 51.67                   | 74.00          | -22.33          | Horizontal   |  |      |  |
| 12120.390       | 38.67                  | 14.46           | 38.42              | 39.17                | 53.88                   | 74.00          | -20.12          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11n(HT20)   |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3786.970        | 33.03                  | 7.74            | 38.60              | 44.46                | 46.63                   | 74.00          | -27.37          | Vertical     |  |      |  |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 42.77                | 47.11                   | 74.00          | -26.89          | Vertical     |  |      |  |
| 6069.413        | 34.76                  | 10.47           | 38.96              | 44.21                | 50.48                   | 74.00          | -23.52          | Vertical     |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 41.20                | 50.29                   | 74.00          | -23.71          | Vertical     |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.09                | 52.42                   | 74.00          | -21.58          | Vertical     |  |      |  |
| 12350.530       | 38.81                  | 14.27           | 38.66              | 38.58                | 53.00                   | 74.00          | -21.00          | Vertical     |  |      |  |
| 3966.435        | 33.51                  | 7.80            | 38.69              | 44.51                | 47.13                   | 74.00          | -26.87          | Horizontal   |  |      |  |
| 4924.000        | 34.37                  | 9.04            | 39.07              | 43.20                | 47.54                   | 74.00          | -26.46          | Horizontal   |  |      |  |
| 6069.413        | 34.76                  | 10.47           | 38.96              | 43.62                | 49.89                   | 74.00          | -24.11          | Horizontal   |  |      |  |
| 7386.000        | 36.34                  | 10.75           | 38.00              | 41.94                | 51.03                   | 74.00          | -22.97          | Horizontal   |  |      |  |
| 9848.000        | 37.57                  | 12.63           | 36.87              | 39.33                | 52.66                   | 74.00          | -21.34          | Horizontal   |  |      |  |
| 12015.620       | 38.61                  | 14.55           | 38.32              | 38.59                | 53.43                   | 74.00          | -20.57          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Lowest         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3620.861        | 32.56                  | 7.68            | 38.53              | 44.48                | 46.19                   | 74.00          | -27.81          | Vertical     |  |      |  |
| 4844.000        | 34.23                  | 8.92            | 39.04              | 41.26                | 45.37                   | 74.00          | -28.63          | Vertical     |  |      |  |
| 6051.874        | 34.74                  | 10.49           | 38.97              | 43.35                | 49.61                   | 74.00          | -24.39          | Vertical     |  |      |  |
| 7266.000        | 36.39                  | 10.70           | 38.12              | 40.66                | 49.63                   | 74.00          | -24.37          | Vertical     |  |      |  |
| 9688.000        | 37.54                  | 12.54           | 36.95              | 38.72                | 51.85                   | 74.00          | -22.15          | Vertical     |  |      |  |
| 12137.940       | 38.68                  | 14.45           | 38.44              | 38.85                | 53.54                   | 74.00          | -20.46          | Vertical     |  |      |  |
| 3737.975        | 32.89                  | 7.72            | 38.58              | 44.09                | 46.12                   | 74.00          | -27.88          | Horizontal   |  |      |  |
| 4844.000        | 34.23                  | 8.92            | 39.04              | 43.00                | 47.11                   | 74.00          | -26.89          | Horizontal   |  |      |  |
| 6025.661        | 34.72                  | 10.53           | 38.98              | 44.10                | 50.37                   | 74.00          | -23.63          | Horizontal   |  |      |  |
| 7266.000        | 36.39                  | 10.70           | 38.12              | 41.43                | 50.40                   | 74.00          | -23.60          | Horizontal   |  |      |  |
| 9688.000        | 37.54                  | 12.54           | 36.95              | 38.93                | 52.06                   | 74.00          | -21.94          | Horizontal   |  |      |  |
| 12314.840       | 38.79                  | 14.30           | 38.62              | 39.37                | 53.84                   | 74.00          | -20.16          | Horizontal   |  |      |  |



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| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Middle         |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3620.861        | 32.56                  | 7.68            | 38.53              | 44.48                | 46.19                   | 74.00          | -27.81          | Vertical     |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 41.27                | 45.47                   | 74.00          | -28.53          | Vertical     |  |      |  |
| 6008.249        | 34.71                  | 10.55           | 38.99              | 44.00                | 50.27                   | 74.00          | -23.73          | Vertical     |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 41.69                | 50.71                   | 74.00          | -23.29          | Vertical     |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 38.14                | 51.35                   | 74.00          | -22.65          | Vertical     |  |      |  |
| 12137.940       | 38.68                  | 14.45           | 38.44              | 38.85                | 53.54                   | 74.00          | -20.46          | Vertical     |  |      |  |
| 3842.163        | 33.18                  | 7.76            | 38.63              | 43.95                | 46.26                   | 74.00          | -27.74          | Horizontal   |  |      |  |
| 4874.000        | 34.28                  | 8.97            | 39.05              | 42.63                | 46.83                   | 74.00          | -27.17          | Horizontal   |  |      |  |
| 5939.103        | 34.66                  | 10.39           | 39.01              | 43.40                | 49.44                   | 74.00          | -24.56          | Horizontal   |  |      |  |
| 7311.000        | 36.37                  | 10.72           | 38.07              | 40.90                | 49.92                   | 74.00          | -24.08          | Horizontal   |  |      |  |
| 9748.000        | 37.55                  | 12.58           | 36.92              | 38.45                | 51.66                   | 74.00          | -22.34          | Horizontal   |  |      |  |
| 12279.260       | 38.77                  | 14.33           | 38.59              | 38.58                | 53.09                   | 74.00          | -20.91          | Horizontal   |  |      |  |

| Test mode:      |                        | 802.11n(HT40)   |                    | Test channel:        |                         | Highest        |                 | Remark:      |  | Peak |  |
|-----------------|------------------------|-----------------|--------------------|----------------------|-------------------------|----------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Antenna factors (dB/m) | Cable loss (dB) | Preamp factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Limit (dBμV/m) | Over Limit (dB) | Polarization |  |      |  |
| 3836.607        | 33.16                  | 7.75            | 38.63              | 44.37                | 46.65                   | 74.00          | -27.35          | Vertical     |  |      |  |
| 4904.000        | 34.33                  | 9.01            | 39.07              | 42.56                | 46.83                   | 74.00          | -27.17          | Vertical     |  |      |  |
| 6104.642        | 34.79                  | 10.42           | 38.93              | 44.09                | 50.37                   | 74.00          | -23.63          | Vertical     |  |      |  |
| 7356.000        | 36.36                  | 10.74           | 38.03              | 41.23                | 50.30                   | 74.00          | -23.70          | Vertical     |  |      |  |
| 9808.000        | 37.56                  | 12.61           | 36.89              | 39.41                | 52.69                   | 74.00          | -21.31          | Vertical     |  |      |  |
| 12208.390       | 38.73                  | 14.39           | 38.52              | 39.11                | 53.71                   | 74.00          | -20.29          | Vertical     |  |      |  |
| 3797.945        | 33.06                  | 7.74            | 38.61              | 45.04                | 47.23                   | 74.00          | -26.77          | Horizontal   |  |      |  |
| 4904.000        | 34.33                  | 9.01            | 39.07              | 43.20                | 47.47                   | 74.00          | -26.53          | Horizontal   |  |      |  |
| 6078.201        | 34.76                  | 10.46           | 38.95              | 44.31                | 50.58                   | 74.00          | -23.42          | Horizontal   |  |      |  |
| 7356.000        | 36.36                  | 10.74           | 38.03              | 42.33                | 51.40                   | 74.00          | -22.60          | Horizontal   |  |      |  |
| 9808.000        | 37.56                  | 12.61           | 36.89              | 40.19                | 53.47                   | 74.00          | -20.53          | Horizontal   |  |      |  |
| 12279.260       | 38.77                  | 14.33           | 38.59              | 38.89                | 53.40                   | 74.00          | -20.60          | Horizontal   |  |      |  |



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### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

## 6.9 Restricted bands around fundamental frequency

|                   |                                                                                                                                    |                    |                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205                                                                                          |                    |                  |
| Test Method:      | ANSI C63.10: 2013 Section 11.12                                                                                                    |                    |                  |
| Test Site:        | Below 1GHz:<br>Measurement Distance: 3m (Semi-Anechoic Chamber)<br>Above 1GHz:<br>Measurement Distance: 3m (Full-Anechoic Chamber) |                    |                  |
| Limit:            | Frequency                                                                                                                          | Limit (dBuV/m @3m) | Remark           |
|                   | 30MHz-88MHz                                                                                                                        | 40.0               | Quasi-peak Value |
|                   | 88MHz-216MHz                                                                                                                       | 43.5               | Quasi-peak Value |
|                   | 216MHz-960MHz                                                                                                                      | 46.0               | Quasi-peak Value |
|                   | 960MHz-1GHz                                                                                                                        | 54.0               | Quasi-peak Value |
|                   | Above 1GHz                                                                                                                         | 54.0               | Average Value    |
|                   |                                                                                                                                    | 74.0               | Peak Value       |
| Test Setup:       |                                                                                                                                    |                    |                  |

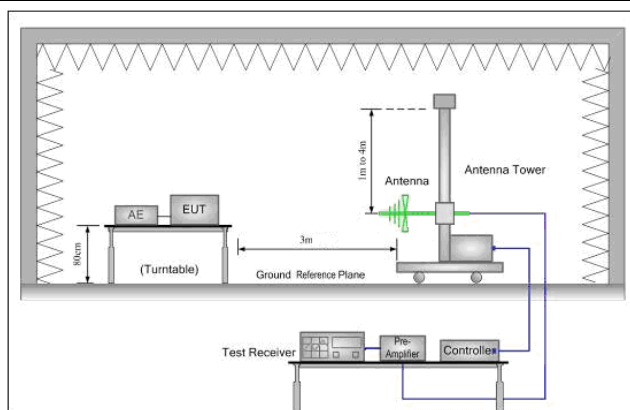


Figure 1. 30MHz to 1GHz

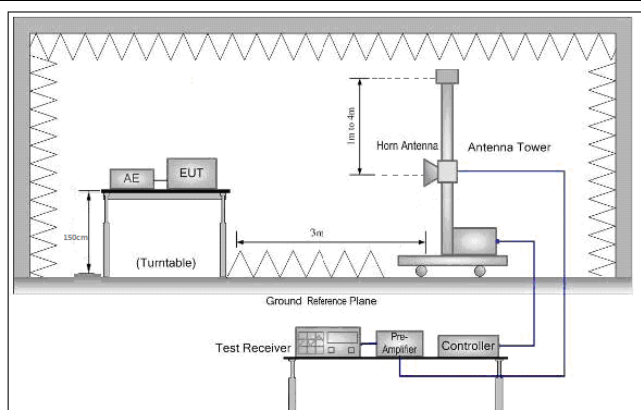


Figure 2. Above 1 GHz



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|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:        | <ul style="list-style-type: none"><li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li><li>h. Test the EUT in the lowest channel , the Highest channel</li><li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li><li>j. Repeat above procedures until all frequencies measured was complete.</li></ul> |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates.<br>Transmitting mode, Transmitting mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Final Test Mode:       | Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case<br>Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;<br>6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)<br>Only the worst case is recorded in the report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Instruments Used:      | Refer to section 5.10 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



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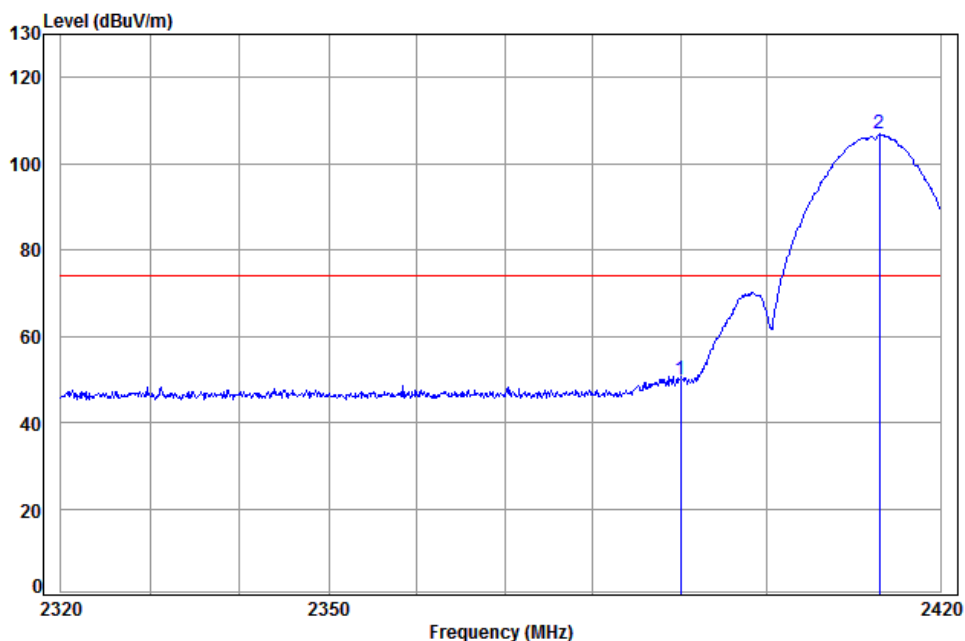
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Test plot as follows:

## Antenna 0

|                  |         |               |        |         |      |          |
|------------------|---------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11b | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-B A=0

|      | Cable    | Ant    | Preamp | Read  |        | Limit  | Over         |
|------|----------|--------|--------|-------|--------|--------|--------------|
| Freq | Loss     | Factor | Factor | Level | Level  | Line   | Limit        |
| MHz  | dB       | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 2390.000 | 5.34   | 29.08  | 38.14 | 53.67  | 49.95  | 74.00 -24.05 |
| 2 pp | 2412.964 | 5.35   | 29.15  | 38.15 | 110.46 | 106.81 | 74.00 32.81  |

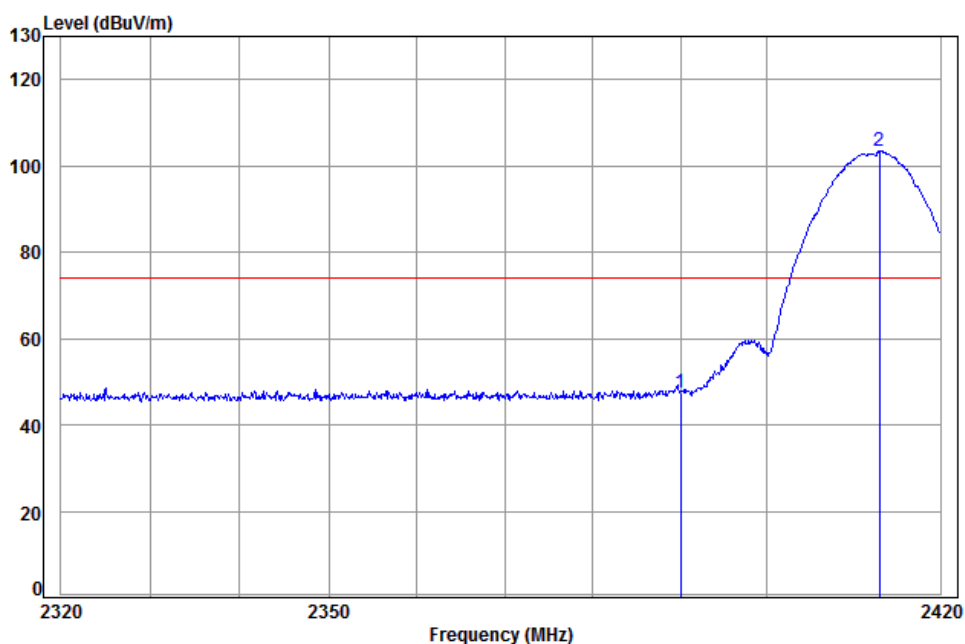


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|                  |         |               |        |         |      |            |
|------------------|---------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11b | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-B A=0

|   |             | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|---|-------------|-------|--------|--------|--------|--------|--------|--------|
|   | Freq        | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|   | MHz         | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 | 2390.000    | 5.34  | 29.08  | 38.14  | 51.25  | 47.53  | 74.00  | -26.47 |
| 2 | pp 2412.964 | 5.35  | 29.15  | 38.15  | 107.14 | 103.49 | 74.00  | 29.49  |

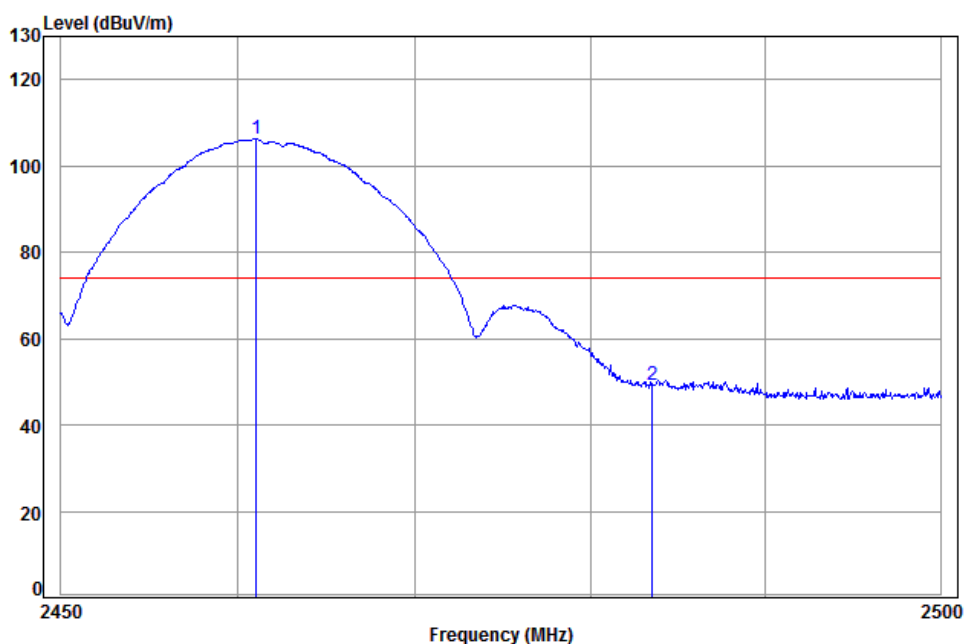


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|                  |         |               |         |         |      |          |
|------------------|---------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11b | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-B A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2461.013 | 5.39  | 29.29  | 38.15  | 109.70 | 106.23 | 74.00  | 32.23  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 52.77  | 49.38  | 74.00  | -24.62 |

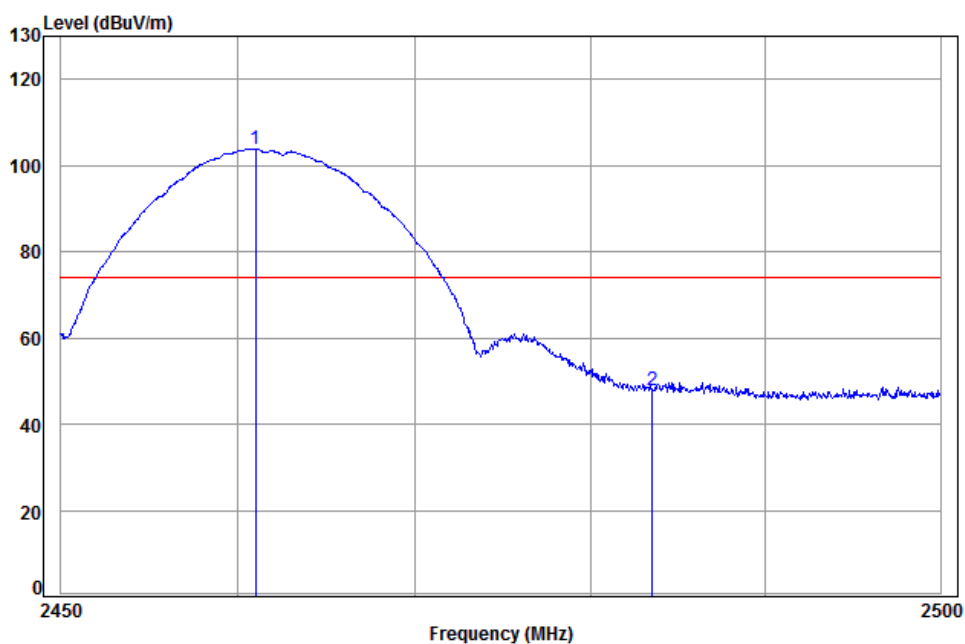


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|                  |         |               |         |         |      |            |
|------------------|---------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11b | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-B A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2460.963 | 5.39  | 29.29  | 38.15  | 107.41 | 103.94 | 74.00  | 29.94  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 51.14  | 47.75  | 74.00  | -26.25 |

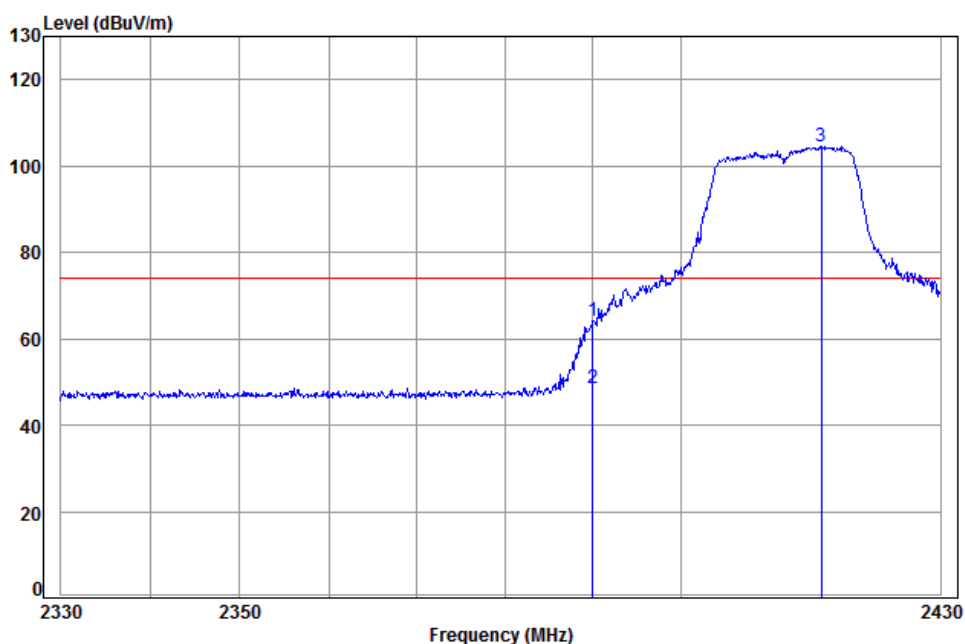


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|                  |         |               |        |         |      |          |
|------------------|---------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11g | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-G A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 67.70  | 63.98  | 74.00  | -10.02 |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 52.14  | 48.42  | 54.00  | -5.58  |
| 3 pp | 2416.253 | 5.36  | 29.16  | 38.15  | 108.12 | 104.49 | 74.00  | 30.49  |

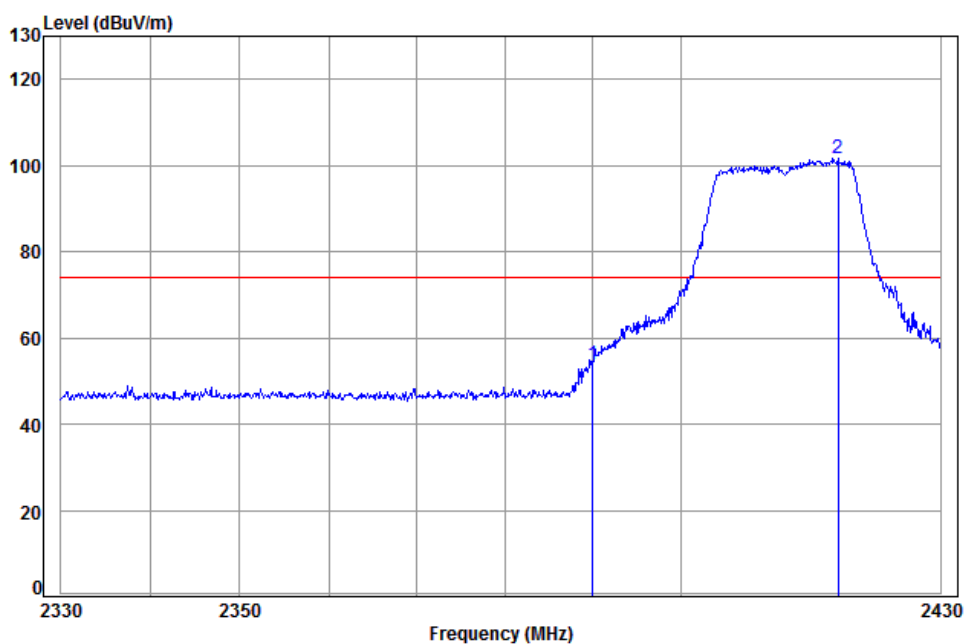


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|                  |         |               |        |         |      |            |
|------------------|---------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11g | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-G A=0

|   |             | Cable | Ant    | Preamp | Read   | Limit  | Over         |
|---|-------------|-------|--------|--------|--------|--------|--------------|
|   | Freq        | Loss  | Factor | Factor | Level  | Line   | Limit        |
|   | MHz         | dB    | dB/m   | dB     | dBuV   | dBuV/m | dB           |
| 1 | 2390.000    | 5.34  | 29.08  | 38.14  | 57.69  | 53.97  | 74.00 -20.03 |
| 2 | pp 2418.183 | 5.36  | 29.16  | 38.15  | 105.26 | 101.63 | 74.00 27.63  |

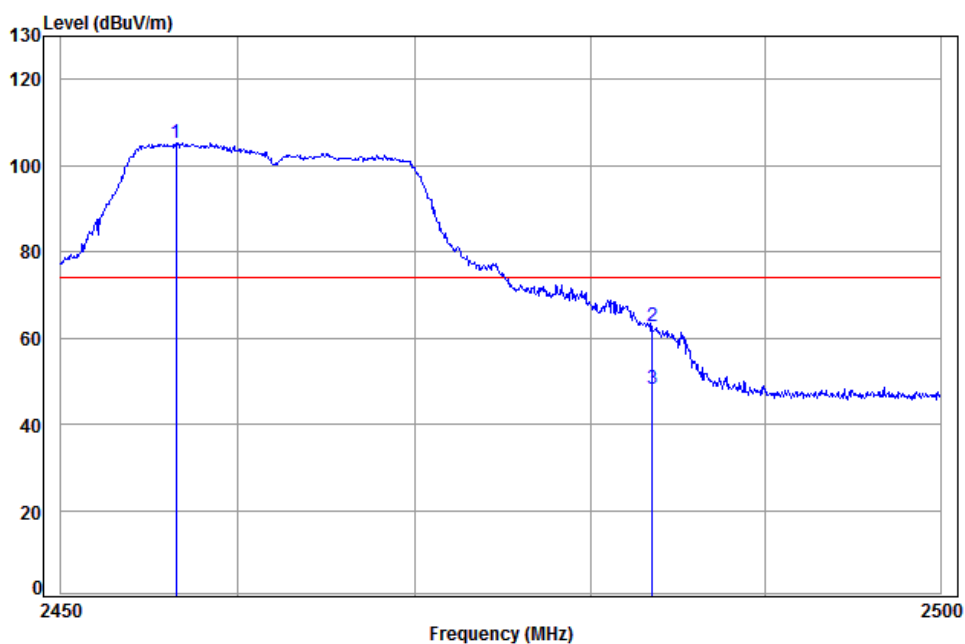


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|                  |         |               |         |         |      |          |
|------------------|---------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11g | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-G A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2456.493 | 5.39  | 29.27  | 38.15  | 108.77 | 105.28 | 74.00  | 31.28  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 66.00  | 62.61  | 74.00  | -11.39 |
| 3 av | 2483.500 | 5.41  | 29.35  | 38.15  | 51.54  | 48.15  | 54.00  | -5.85  |

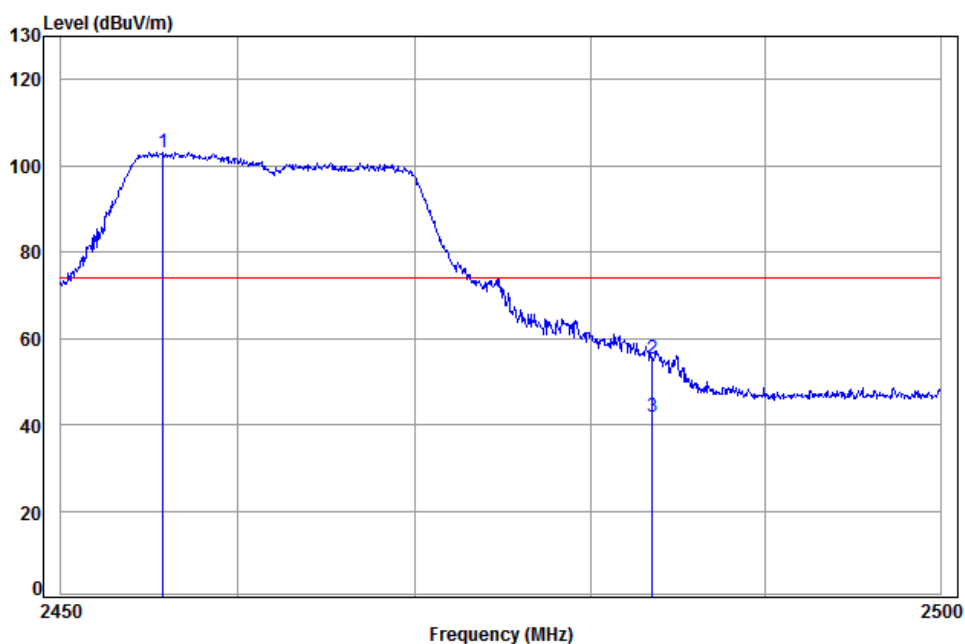


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|                  |         |               |         |         |      |            |
|------------------|---------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11g | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-G A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor |        | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2455.748 | 5.39  | 29.27  | 38.15  | 106.73 | 103.24 | 74.00  | 29.24  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 58.82  | 55.43  | 74.00  | -18.57 |
| 3 av | 2483.500 | 5.41  | 29.35  | 38.15  | 45.34  | 41.95  | 54.00  | -12.05 |

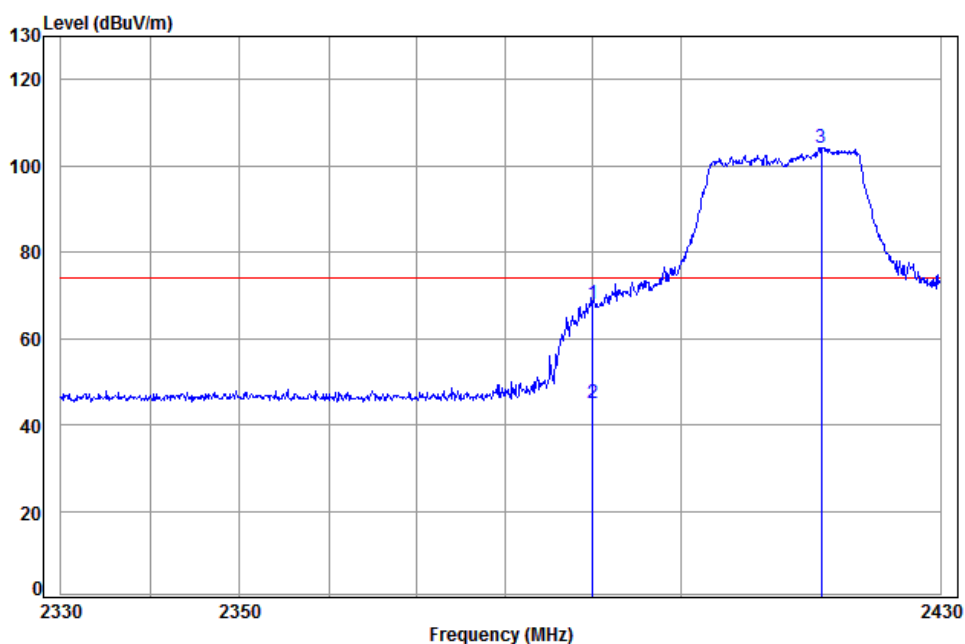


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|                  |               |               |        |         |      |          |
|------------------|---------------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over  |
|------|----------|-------|--------|--------|--------|--------|--------|-------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 71.84  | 68.12  | 74.00  | -5.88 |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 48.79  | 45.07  | 54.00  | -8.93 |
| 3 pp | 2416.253 | 5.36  | 29.16  | 38.15  | 107.91 | 104.28 | 74.00  | 30.28 |

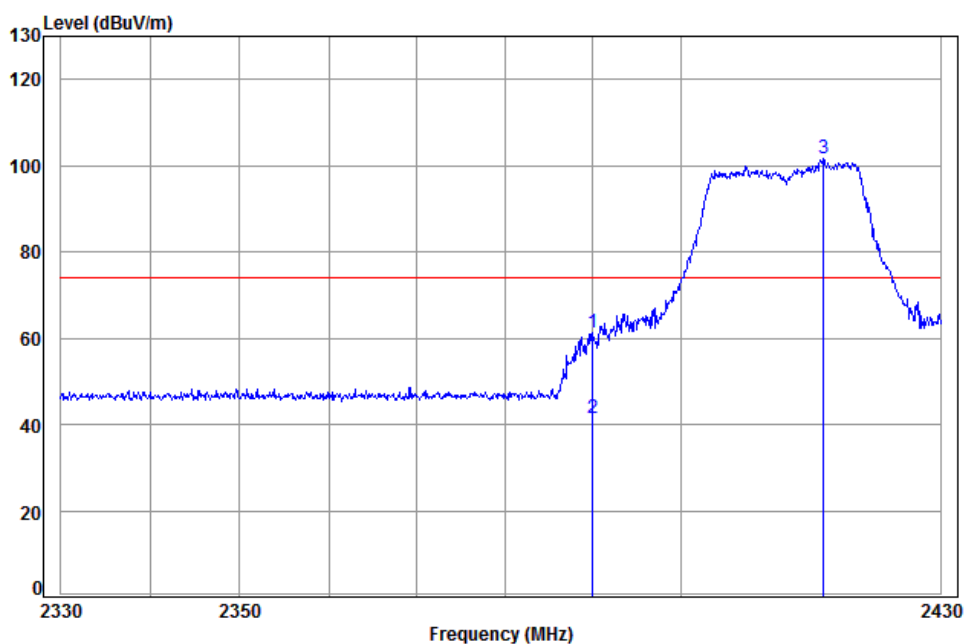


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|                  |               |               |        |         |      |            |
|------------------|---------------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=0

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over         |
|------|----------|-------|--------|--------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit        |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dB           |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 65.12  | 61.40  | 74.00 -12.60 |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 45.09  | 41.37  | 54.00 -12.63 |
| 3 pp | 2416.457 | 5.36  | 29.16  | 38.15  | 105.23 | 101.60 | 74.00 27.60  |

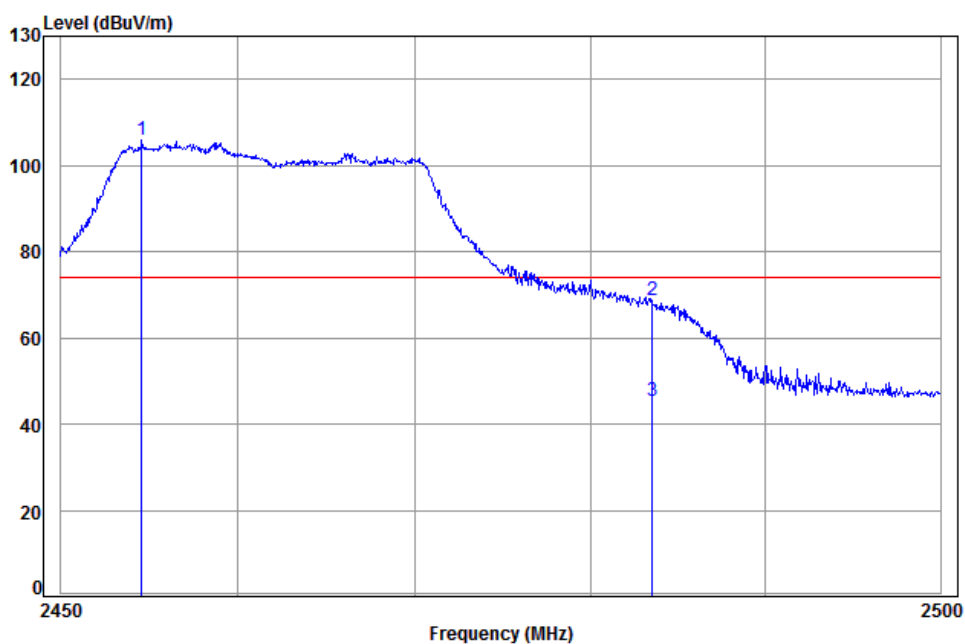


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|                  |               |               |         |         |      |          |
|------------------|---------------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-N20 A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over  |
|------|----------|-------|--------|--------|--------|--------|--------|-------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |
| 1 pp | 2454.558 | 5.39  | 29.27  | 38.15  | 109.25 | 105.76 | 74.00  | 31.76 |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 72.06  | 68.67  | 74.00  | -5.33 |
| 3 av | 2483.500 | 5.41  | 29.35  | 38.15  | 48.72  | 45.33  | 54.00  | -8.67 |

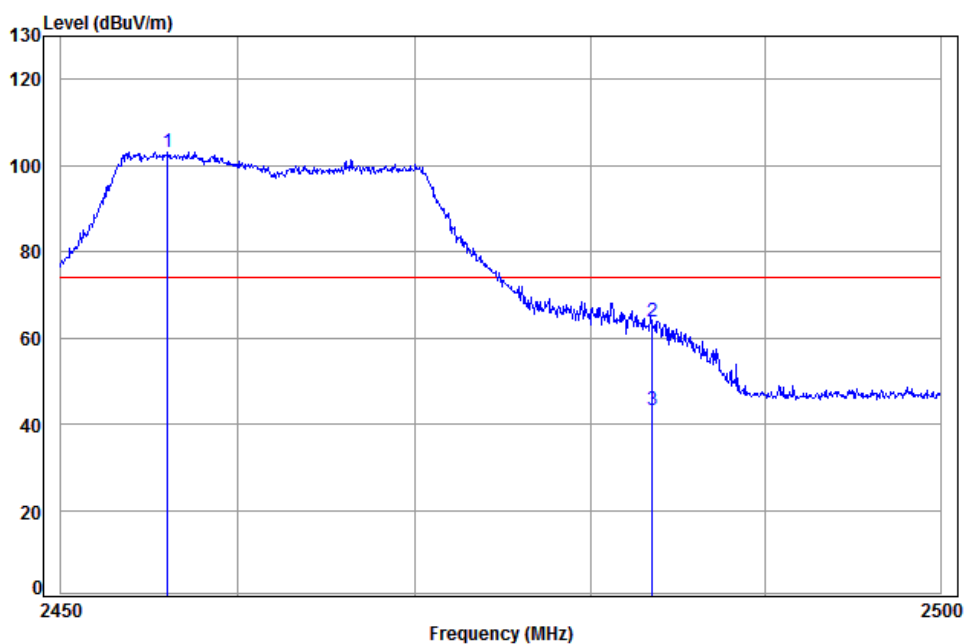


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|                  |               |               |         |         |      |            |
|------------------|---------------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-N20 A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2455.996 | 5.39  | 29.27  | 38.15  | 106.52 | 103.03 | 74.00  | 29.03  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 67.05  | 63.66  | 74.00  | -10.34 |
| 3 av | 2483.500 | 5.41  | 29.35  | 38.15  | 46.46  | 43.07  | 54.00  | -10.93 |

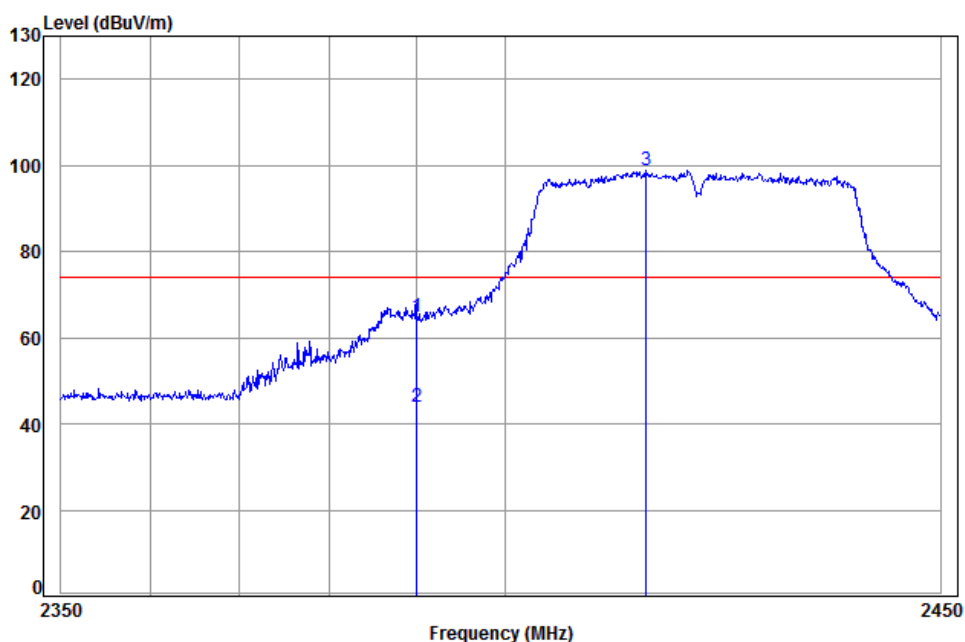


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|                  |               |               |        |         |      |          |
|------------------|---------------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40 A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 68.66  | 64.94  | 74.00  | -9.06  |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 47.51  | 43.79  | 54.00  | -10.21 |
| 3 pp | 2416.135 | 5.36  | 29.16  | 38.15  | 102.36 | 98.73  | 74.00  | 24.73  |

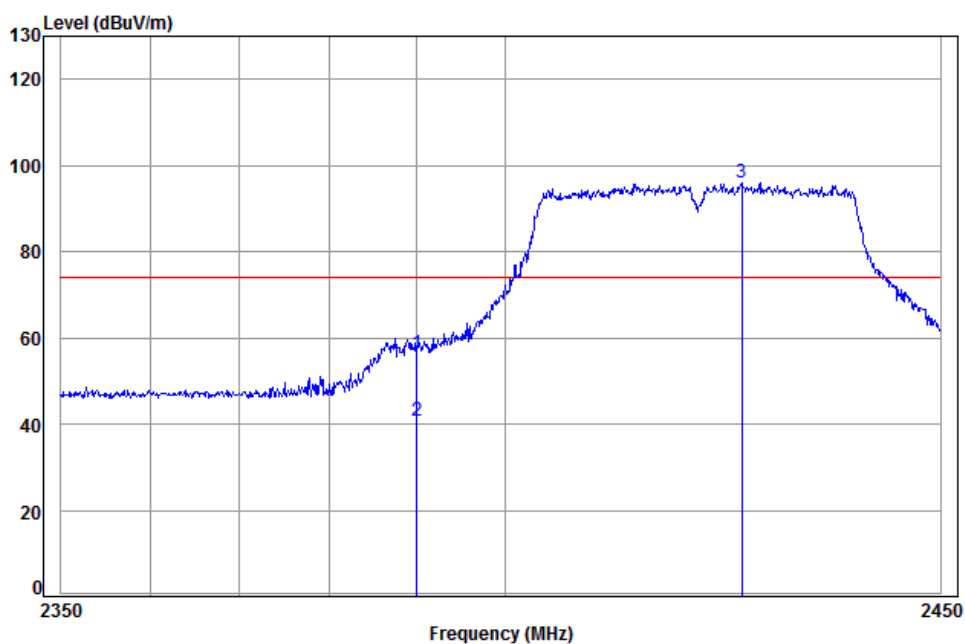


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|                  |               |               |        |         |      |            |
|------------------|---------------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40 A=0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |
|------|----------|-------|--------|--------|-------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 59.87 | 56.15  | 74.00  | -17.85 |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 44.60 | 40.88  | 54.00  | -13.12 |
| 3 pp | 2427.034 | 5.37  | 29.19  | 38.15  | 99.61 | 96.02  | 74.00  | 22.02  |

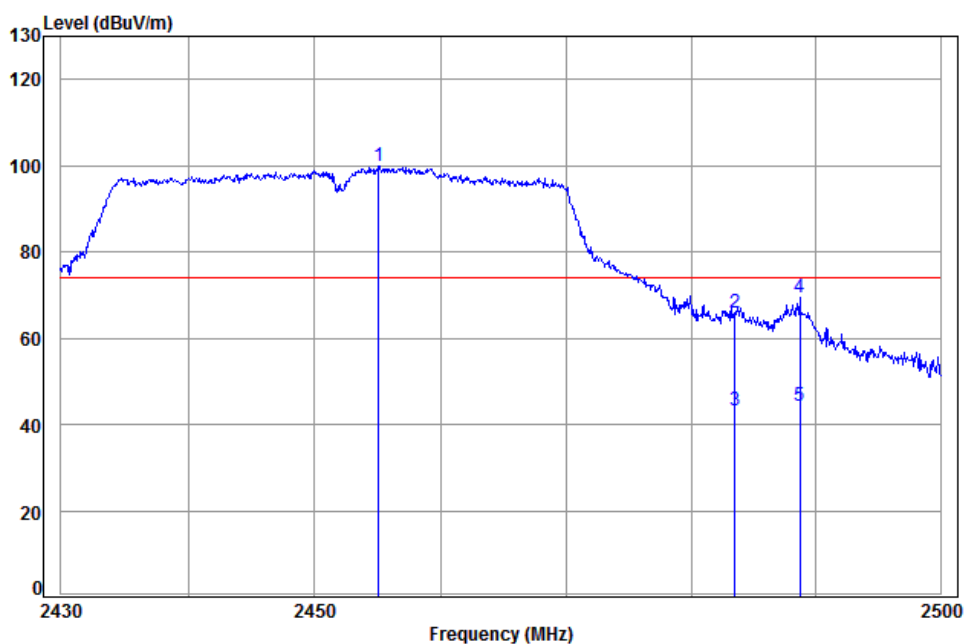


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|                  |               |               |         |         |      |          |
|------------------|---------------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2452 Bandedge

: WIFI-N40 A=0

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over         |
|------|----------|-------|--------|--------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit        |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dB           |
| 1 pp | 2455.041 | 5.39  | 29.27  | 38.15  | 103.50 | 100.01 | 74.00 26.01  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 69.43  | 66.04  | 74.00 -7.96  |
| 3    | 2483.500 | 5.41  | 29.35  | 38.15  | 46.72  | 43.33  | 54.00 -10.67 |
| 4    | 2488.666 | 5.41  | 29.37  | 38.15  | 72.95  | 69.58  | 74.00 -4.42  |
| 5 av | 2488.666 | 5.41  | 29.37  | 38.15  | 47.68  | 44.31  | 54.00 -9.69  |

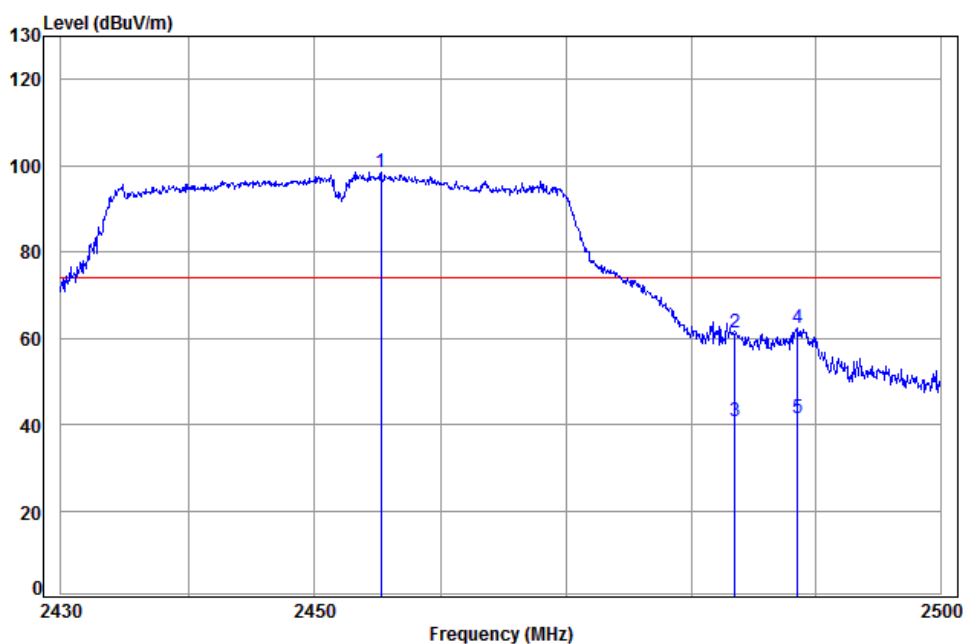


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|                  |               |               |         |         |      |            |
|------------------|---------------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2452 Bandedge

: WIFI-N40 A=0

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2455.250 | 5.39  | 29.27  | 38.15  | 102.08 | 98.59  | 74.00  | 24.59  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 64.70  | 61.31  | 74.00  | -12.69 |
| 3    | 2483.500 | 5.41  | 29.35  | 38.15  | 44.17  | 40.78  | 54.00  | -13.22 |
| 4    | 2488.525 | 5.41  | 29.37  | 38.15  | 65.81  | 62.44  | 74.00  | -11.56 |
| 5 av | 2488.525 | 5.41  | 29.37  | 38.15  | 44.64  | 41.27  | 54.00  | -12.73 |



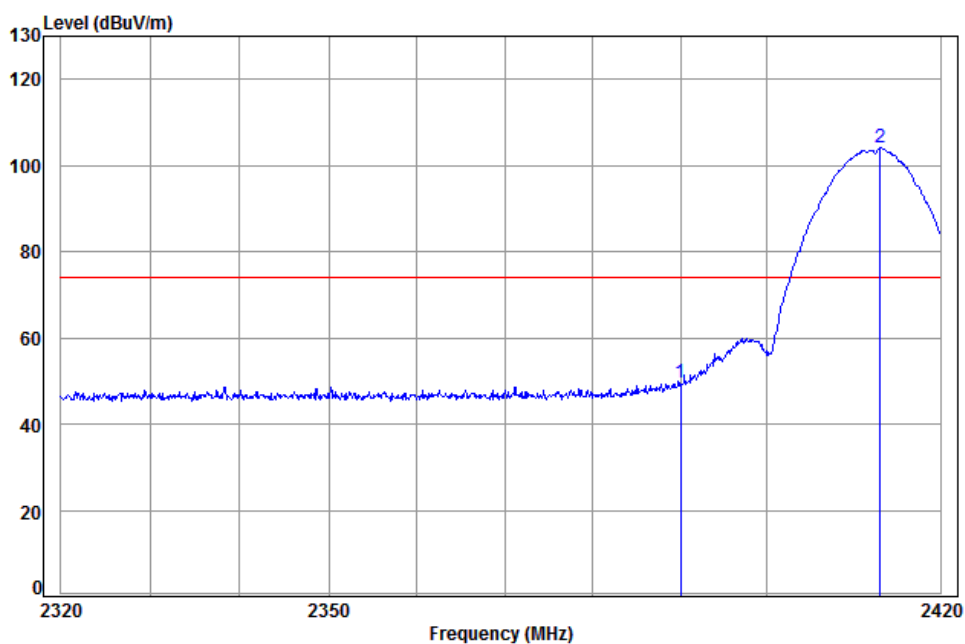
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## Antenna 1

|                  |         |               |        |         |      |          |
|------------------|---------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11b | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-B

|   | Freq        | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark |
|---|-------------|---------------|---------------|------------------|---------------|----------------|---------------|---------------|--------|
|   | MHz         | dB            | dB/m          | dB               | dBuV          | dBuV/m         | dBuV/m        | dB            |        |
| 1 | 2390.000    | 5.34          | 29.08         | 38.14            | 53.38         | 49.66          | 74.00         | -24.34        |        |
| 2 | pp 2413.065 | 5.35          | 29.15         | 38.15            | 107.66        | 104.01         | 74.00         | 30.01         |        |

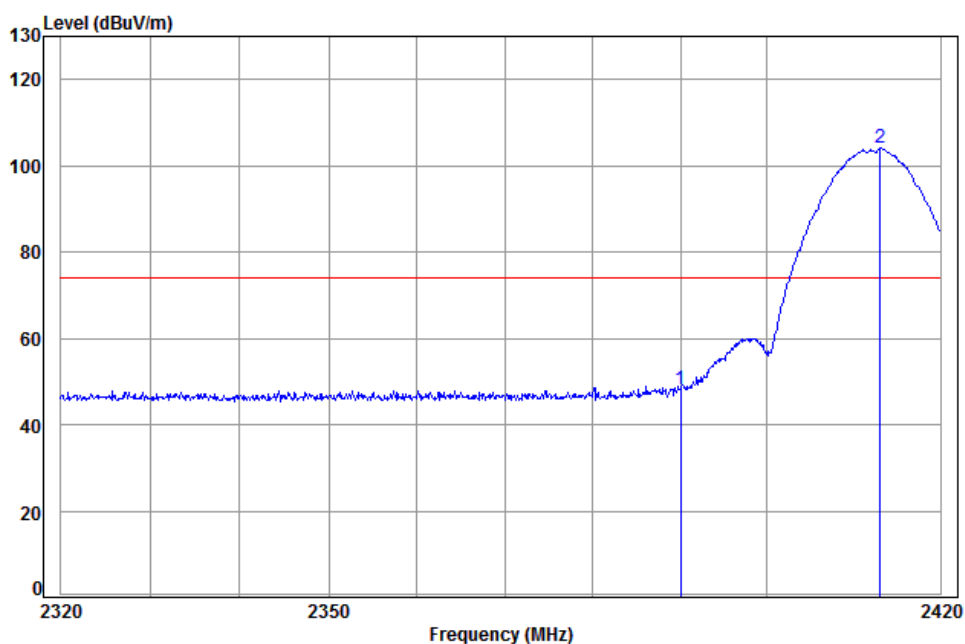


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|                  |         |               |        |         |      |            |
|------------------|---------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11b | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-B

|      | Freq     | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Over<br>Line | Limit  | Remark |
|------|----------|---------------|---------------|------------------|---------------|----------------|--------------|--------|--------|
|      | MHz      | dB            | dB/m          | dB               | dBuV          | dBuV/m         | dBuV/m       | dB     |        |
| 1    | 2390.000 | 5.34          | 29.08         | 38.14            | 51.78         | 48.06          | 74.00        | -25.94 |        |
| 2 pp | 2413.065 | 5.35          | 29.15         | 38.15            | 107.74        | 104.09         | 74.00        | 30.09  |        |

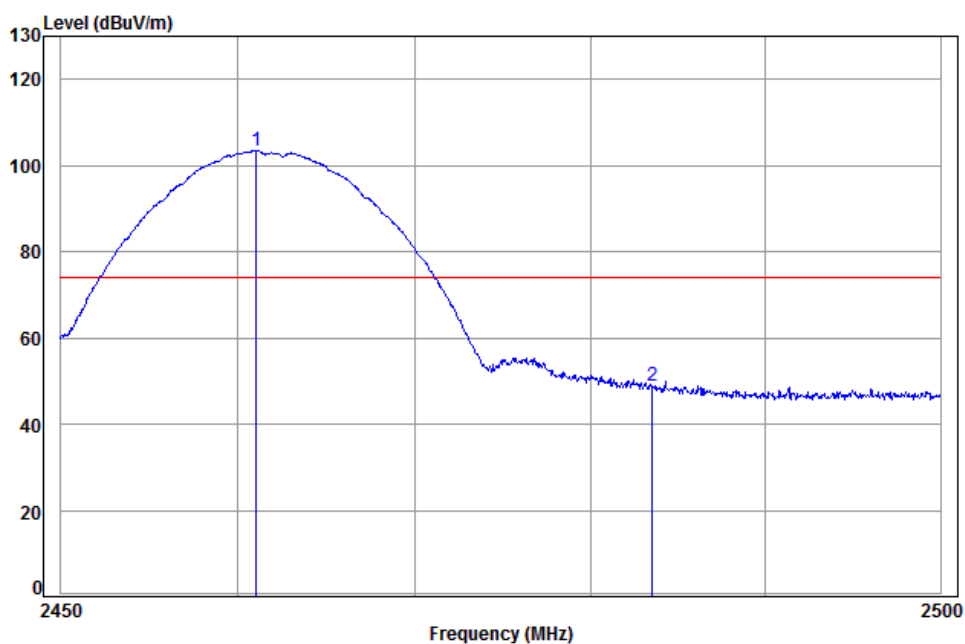


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|                  |         |               |         |         |      |          |
|------------------|---------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11b | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Band edge

: WIFI-B

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|-------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m      | dBuV/m     | dB     |
| 1 pp | 2461.013 | 5.39       | 29.29      | 38.15         | 107.00     | 103.53      | 74.00      | 29.53  |
| 2    | 2483.500 | 5.41       | 29.35      | 38.15         | 52.32      | 48.93       | 74.00      | -25.07 |

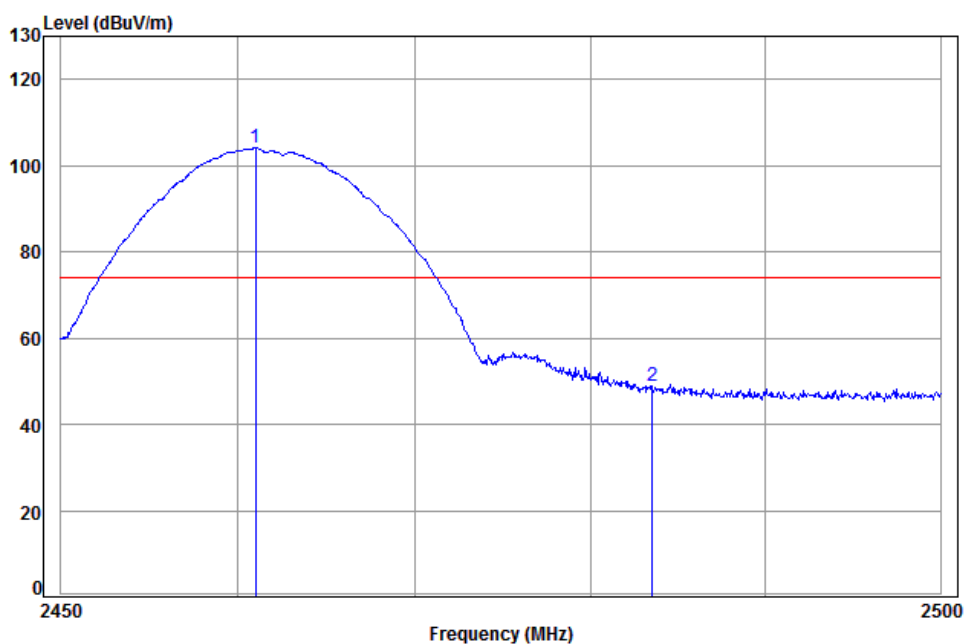


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|                  |         |               |         |         |      |            |
|------------------|---------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11b | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|---------|---------|------|------------|



Condition: 3m Horizontal

Job No: : 8522RG

Mode: : 2462 Band edge

: WIFI-B

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |        |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2460.963 | 5.39  | 29.29  | 38.15  | 107.57 | 104.10 | 74.00  | 30.10  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 52.38  | 48.99  | 74.00  | -25.01 |

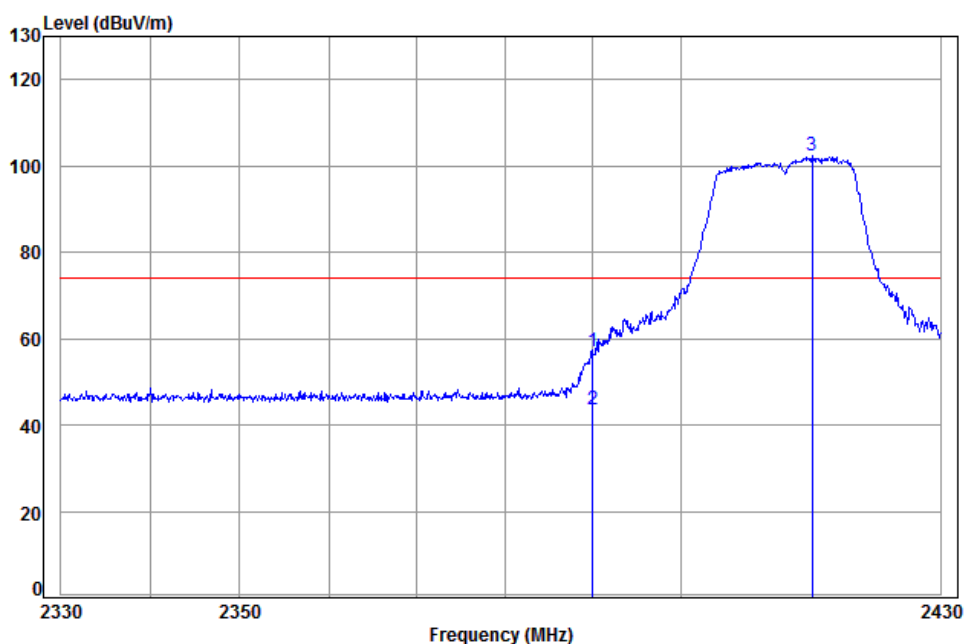


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|                  |         |               |        |         |      |          |
|------------------|---------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11g | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-G

|      | Freq     | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark  |
|------|----------|---------------|---------------|------------------|---------------|----------------|---------------|---------------|---------|
|      | MHz      | dB            | dB/m          | dB               | dBuV          | dBuV/m         | dBuV/m        | dB            |         |
| 1    | 2390.000 | 5.34          | 29.08         | 38.14            | 60.82         | 57.10          | 74.00         | -16.90        |         |
| 2 av | 2390.000 | 5.34          | 29.08         | 38.14            | 47.41         | 43.69          | 54.00         | -10.31        | Average |
| 3 pp | 2415.137 | 5.36          | 29.15         | 38.15            | 105.89        | 102.25         | 74.00         | 28.25         |         |

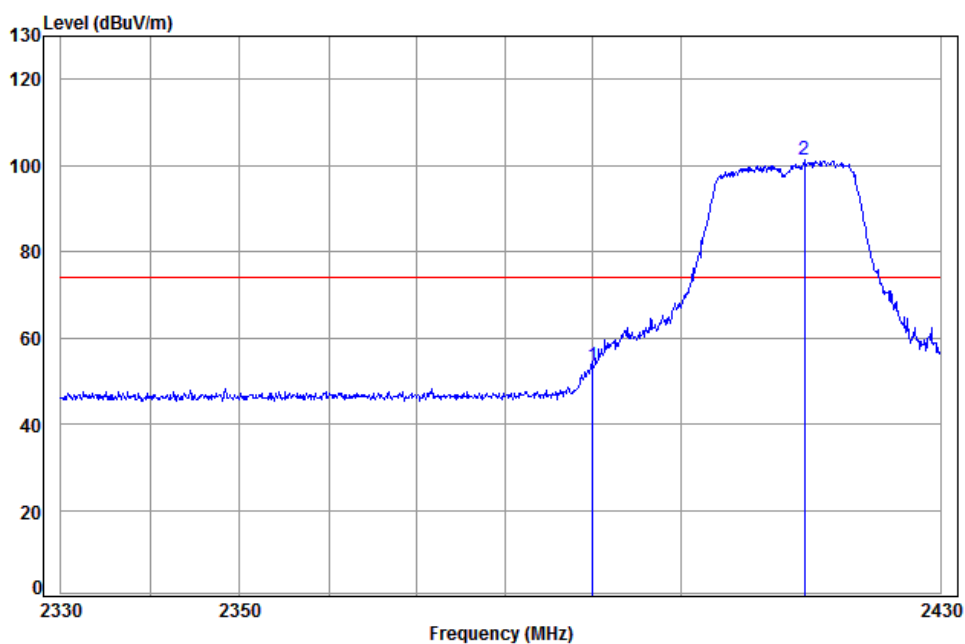


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|                  |         |               |        |         |      |            |
|------------------|---------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11g | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-G

|   | Freq        | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit | Remark |
|---|-------------|---------------|---------------|------------------|---------------|----------------|---------------|---------------|--------|
|   | MHz         | dB            | dB/m          | dB               | dBuV          | dBuV/m         | dBuV/m        | dB            |        |
| 1 | 2390.000    | 5.34          | 29.08         | 38.14            | 57.24         | 53.52          | 74.00         | -20.48        |        |
| 2 | pp 2414.325 | 5.36          | 29.15         | 38.15            | 104.78        | 101.14         | 74.00         | 27.14         |        |

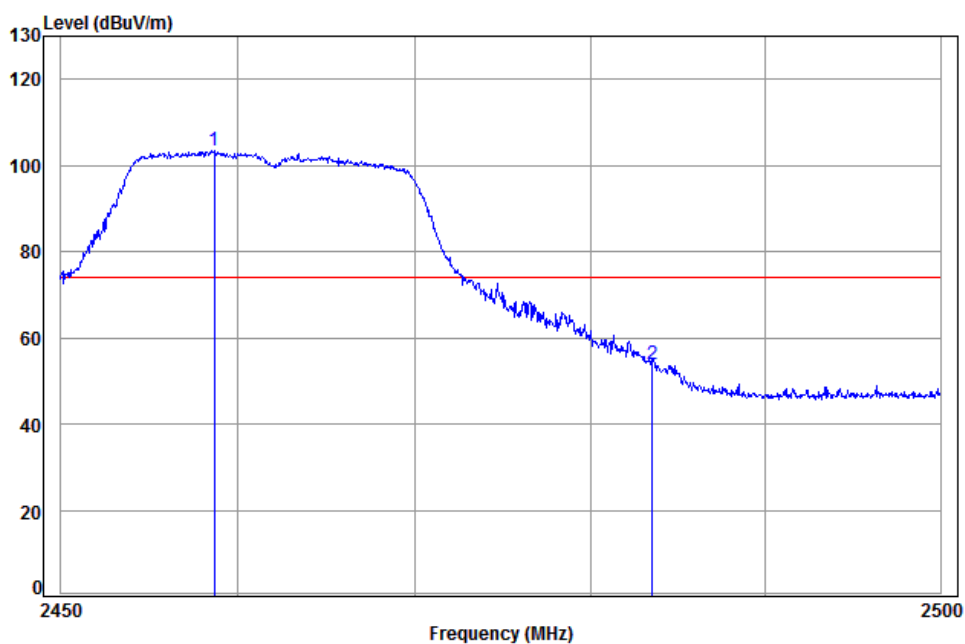


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|                  |         |               |         |         |      |          |
|------------------|---------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11g | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Band edge

: WIFI-G

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |        |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2458.628 | 5.39  | 29.28  | 38.15  | 107.05 | 103.57 | 74.00  | 29.57  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 57.25  | 53.86  | 74.00  | -20.14 |

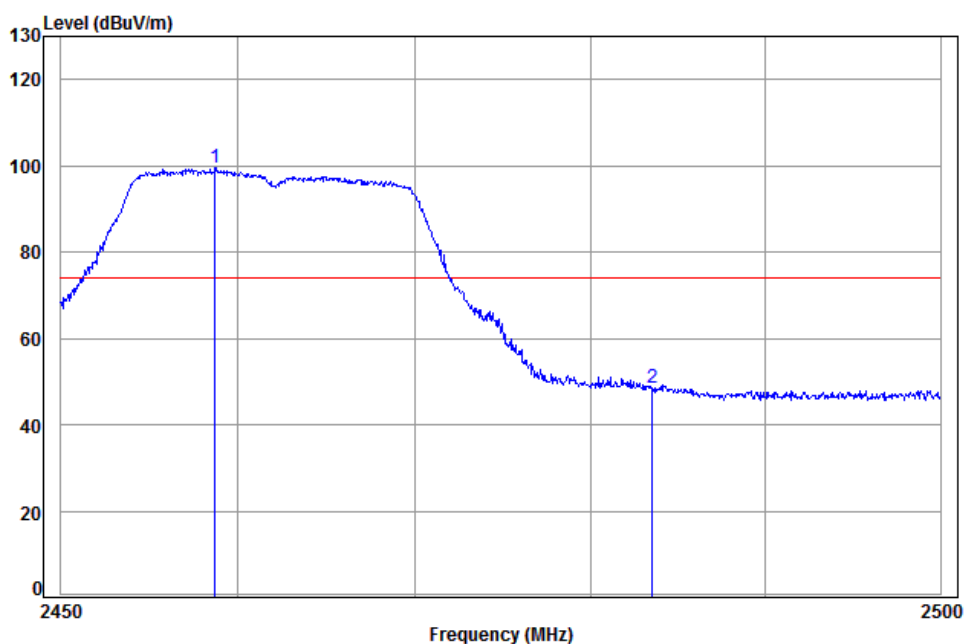


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|                  |         |               |         |         |      |            |
|------------------|---------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11g | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2462 Band edge

: WIFI-G

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |        |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2458.677 | 5.39  | 29.28  | 38.15  | 103.19 | 99.71  | 74.00  | 25.71  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 51.96  | 48.57  | 74.00  | -25.43 |

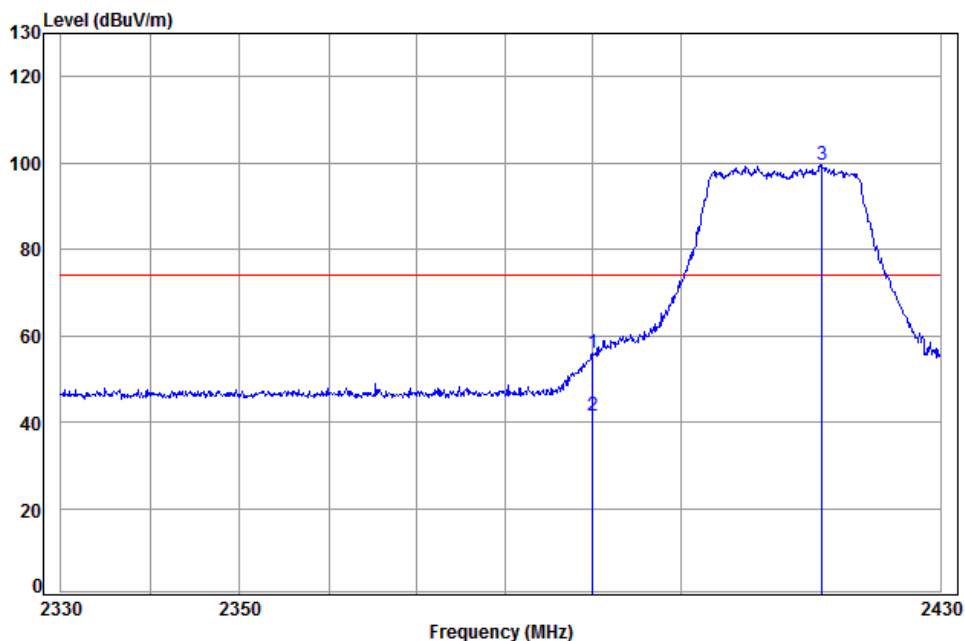


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|                  |               |               |        |         |      |          |
|------------------|---------------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-N20

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2390.000 | 5.34       | 29.08      | 38.14         | 59.67      | 55.95  | 74.00      | -18.05     |         |
| 2 av | 2390.000 | 5.34       | 29.08      | 38.14         | 45.28      | 41.56  | 54.00      | -12.44     | Average |
| 3 pp | 2416.355 | 5.36       | 29.16      | 38.15         | 103.29     | 99.66  | 74.00      | 25.66      |         |

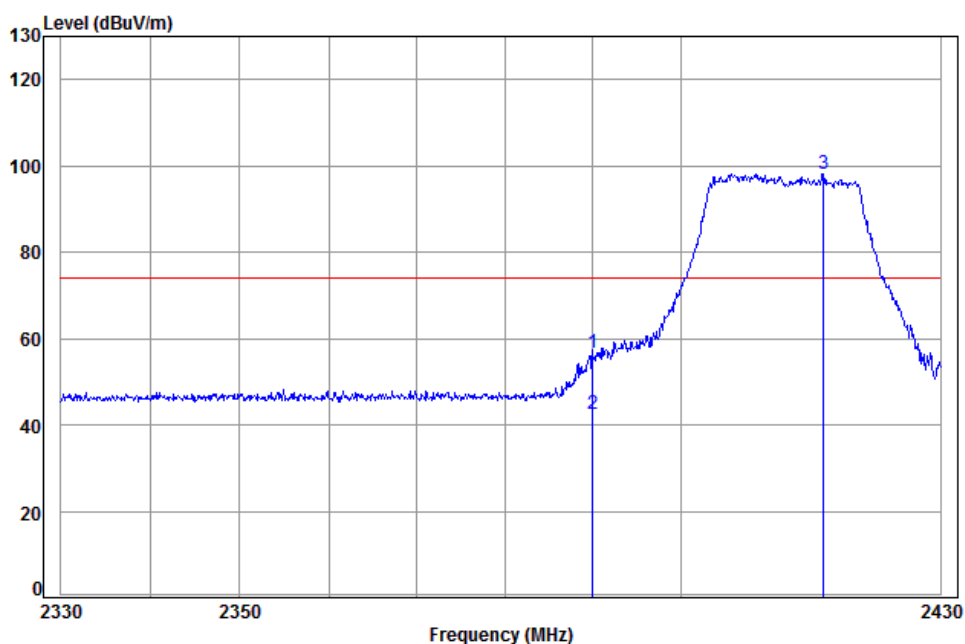


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|                  |               |               |        |         |      |            |
|------------------|---------------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-N20

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |                |
|------|----------|-------|--------|--------|--------|--------|--------|----------------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit  | Remark         |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB             |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 60.30  | 56.58  | 74.00  | -17.42         |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 46.28  | 42.56  | 54.00  | -11.44 Average |
| 3 pp | 2416.457 | 5.36  | 29.16  | 38.15  | 101.82 | 98.19  | 74.00  | 24.19          |

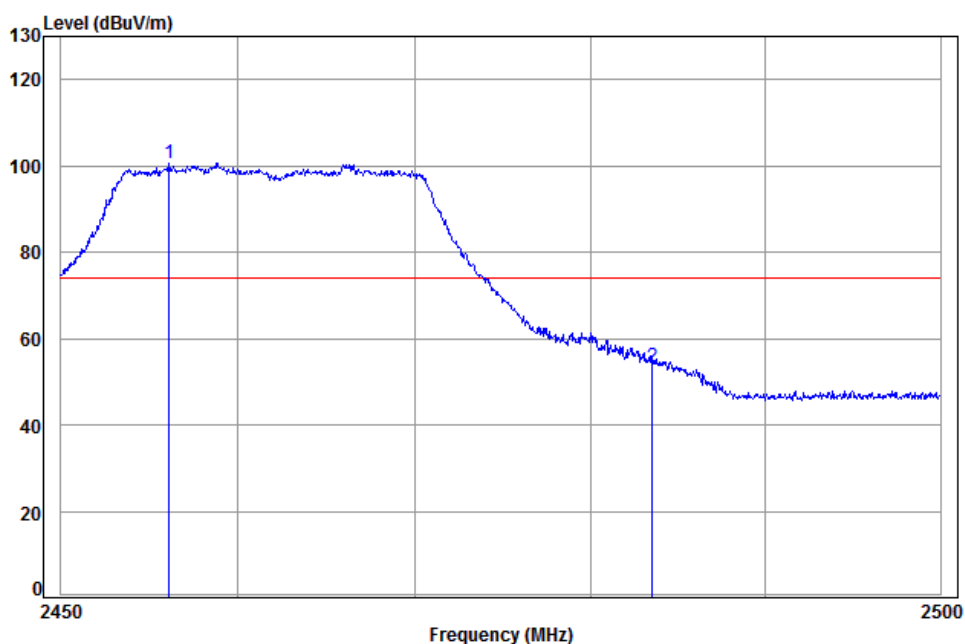


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|                  |               |               |         |         |      |          |
|------------------|---------------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Band edge

: WIFI-N20

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |        |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2456.096 | 5.39  | 29.27  | 38.15  | 104.01 | 100.52 | 74.00  | 26.52  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 56.81  | 53.42  | 74.00  | -20.58 |

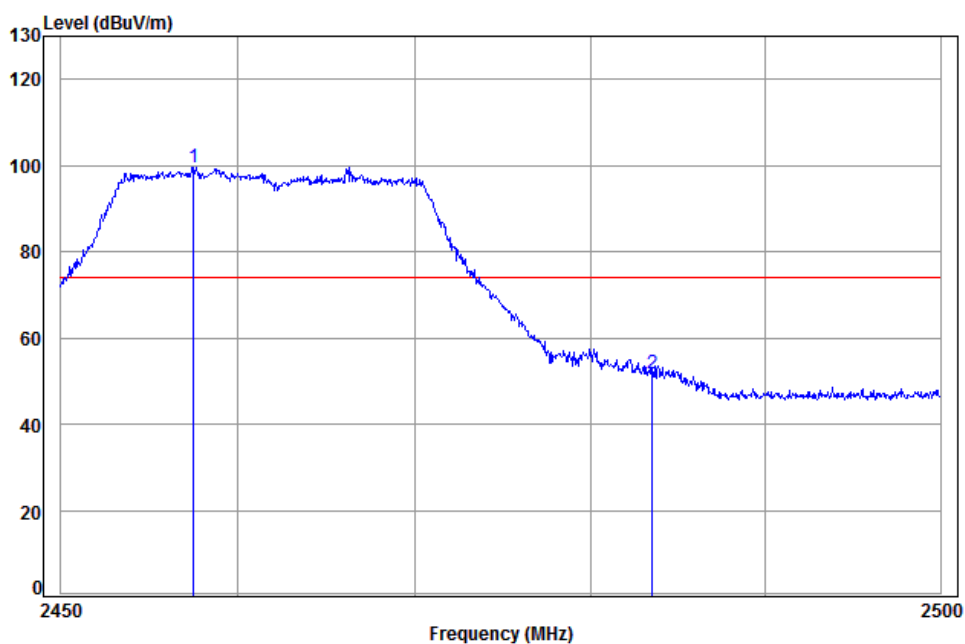


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|                  |               |               |         |         |      |            |
|------------------|---------------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2462 Band edge

: WIFI-N20

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |        |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2457.485 | 5.39  | 29.28  | 38.15  | 102.95 | 99.47  | 74.00  | 25.47  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 55.15  | 51.76  | 74.00  | -22.24 |

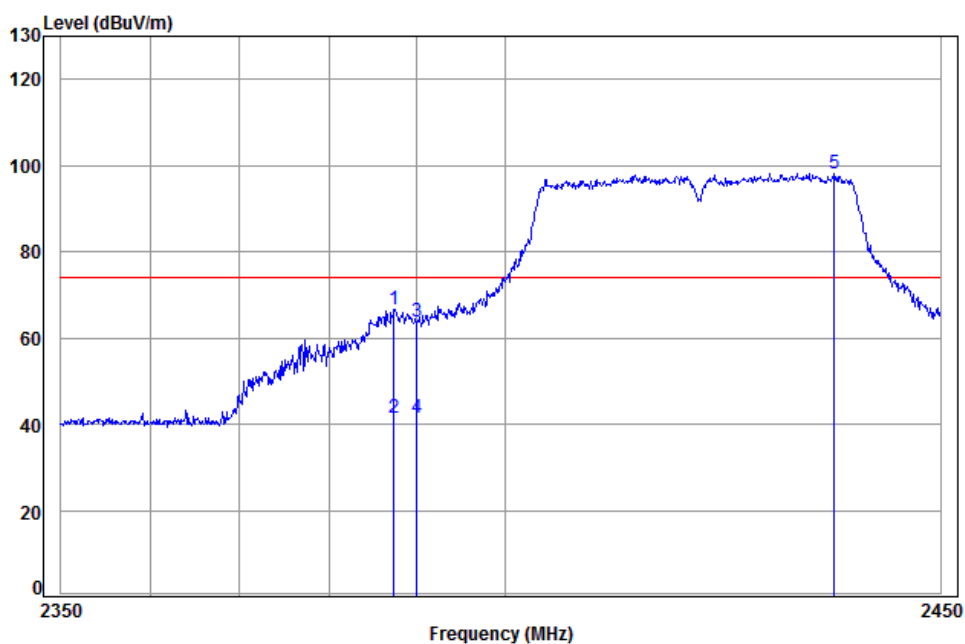


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|                  |               |               |        |         |      |          |
|------------------|---------------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark         |
|------|----------|------------|------------|---------------|------------|-------------|------------|----------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m      | dBuV/m     | dB             |
| 1    | 2387.410 | 5.34       | 29.07      | 38.14         | 70.29      | 66.56       | 74.00      | -7.44          |
| 2 av | 2387.410 | 5.34       | 29.07      | 38.14         | 45.22      | 41.49       | 54.00      | -12.51 Average |
| 3    | 2390.000 | 5.34       | 29.08      | 38.14         | 67.47      | 63.75       | 74.00      | -10.25         |
| 4    | 2390.000 | 5.34       | 29.08      | 38.14         | 45.20      | 41.48       | 54.00      | -12.52 Average |
| 5 pp | 2437.779 | 5.37       | 29.22      | 38.15         | 101.77     | 98.21       | 74.00      | 24.21          |

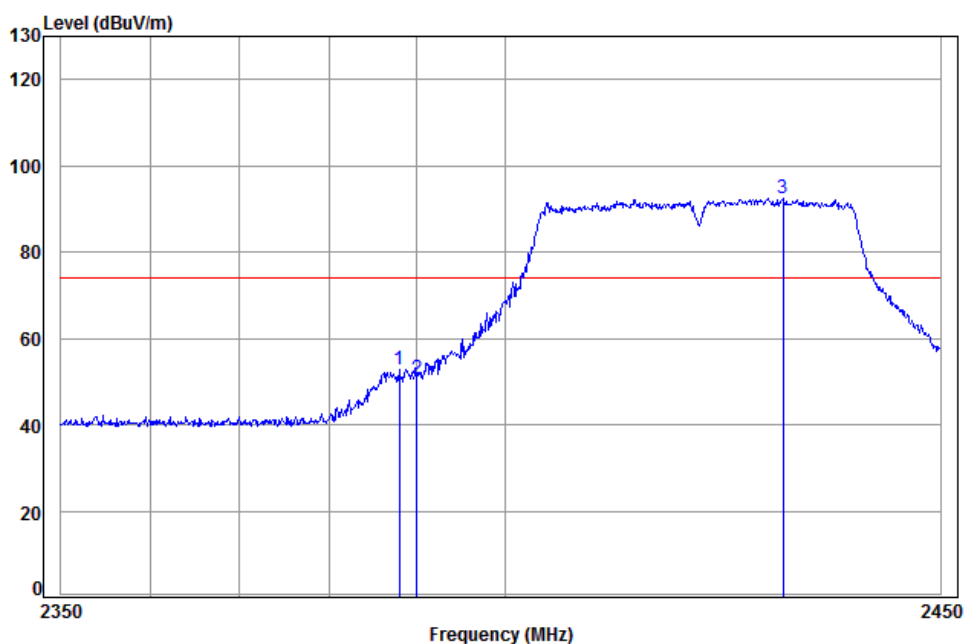


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|                  |               |               |        |         |      |            |
|------------------|---------------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40

|      | Freq     | Cable Loss | Ant Factor | Preamp | Read Level | Limit  | Over   |        |
|------|----------|------------|------------|--------|------------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB     | dBuV       | dBuV/m | dBuV/m | dB     |
| 1    | 2388.008 | 5.34       | 29.07      | 38.14  | 56.55      | 52.82  | 74.00  | -21.18 |
| 2    | 2390.000 | 5.34       | 29.08      | 38.14  | 54.41      | 50.69  | 74.00  | -23.31 |
| 3 pp | 2431.792 | 5.37       | 29.20      | 38.15  | 96.09      | 92.51  | 74.00  | 18.51  |

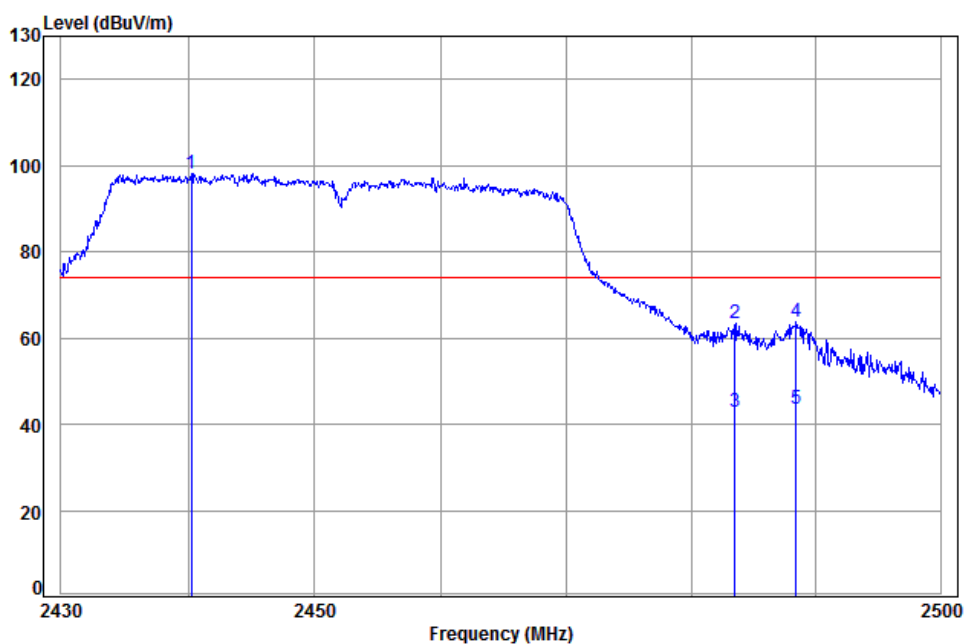


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|                  |               |               |         |         |      |          |
|------------------|---------------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2452 Bandedge

: WIFI-N40

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark         |
|------|----------|------------|------------|---------------|------------|-------------|------------|----------------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m      | dBuV/m     | dB             |
| 1 pp | 2440.235 | 5.38       | 29.23      | 38.15         | 101.52     | 97.98       | 74.00      | 23.98          |
| 2    | 2483.500 | 5.41       | 29.35      | 38.15         | 66.67      | 63.28       | 74.00      | -10.72         |
| 3    | 2483.500 | 5.41       | 29.35      | 38.15         | 46.32      | 42.93       | 54.00      | -11.07 Average |
| 4    | 2488.383 | 5.41       | 29.37      | 38.15         | 67.22      | 63.85       | 74.00      | -10.15         |
| 5 av | 2488.383 | 5.41       | 29.37      | 38.15         | 46.90      | 43.53       | 54.00      | -10.47 Average |

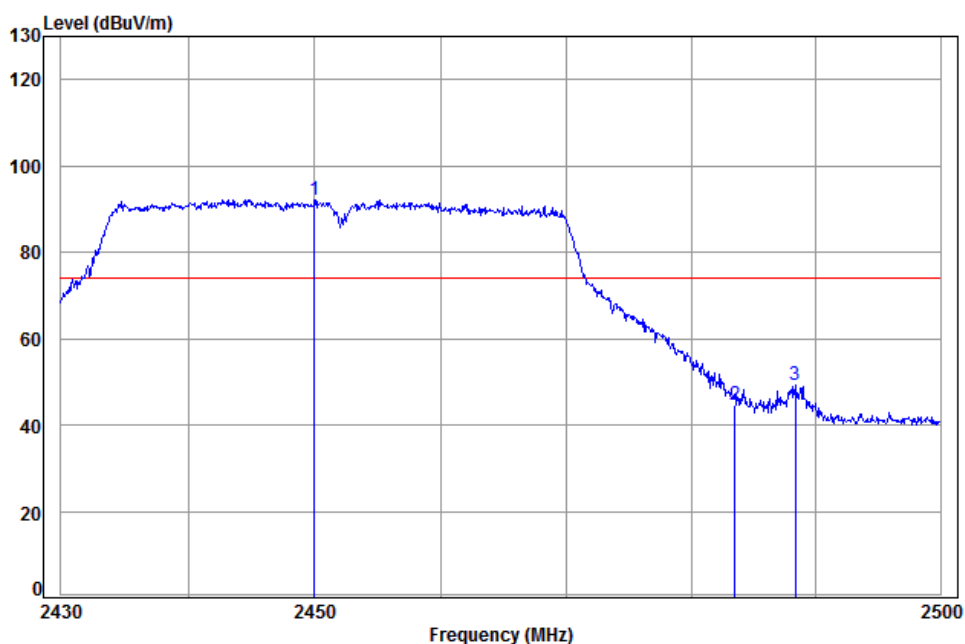


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|                  |               |               |         |         |      |            |
|------------------|---------------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2452 Bandedge

: WIFI-N40

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |
| 1 pp | 2449.957 | 5.38  | 29.26  | 38.15  | 95.76 | 92.25  | 74.00  | 18.25  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 47.97 | 44.58  | 74.00  | -29.42 |
| 3    | 2488.313 | 5.41  | 29.37  | 38.15  | 52.51 | 49.14  | 74.00  | -24.86 |



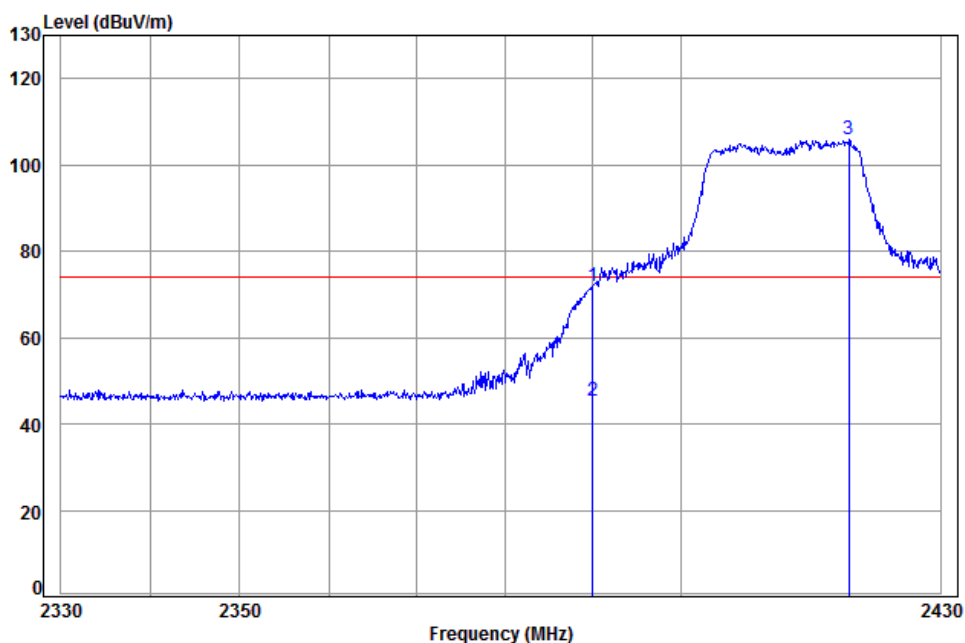
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## MIMO

|                  |               |               |        |         |      |          |
|------------------|---------------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=4

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over        |
|------|----------|-------|--------|--------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit       |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dB          |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 75.47  | 71.75  | 74.00 -2.25 |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 49.10  | 45.38  | 54.00 -8.62 |
| 3 pp | 2419.403 | 5.36  | 29.17  | 38.15  | 109.70 | 106.08 | 74.00 32.08 |

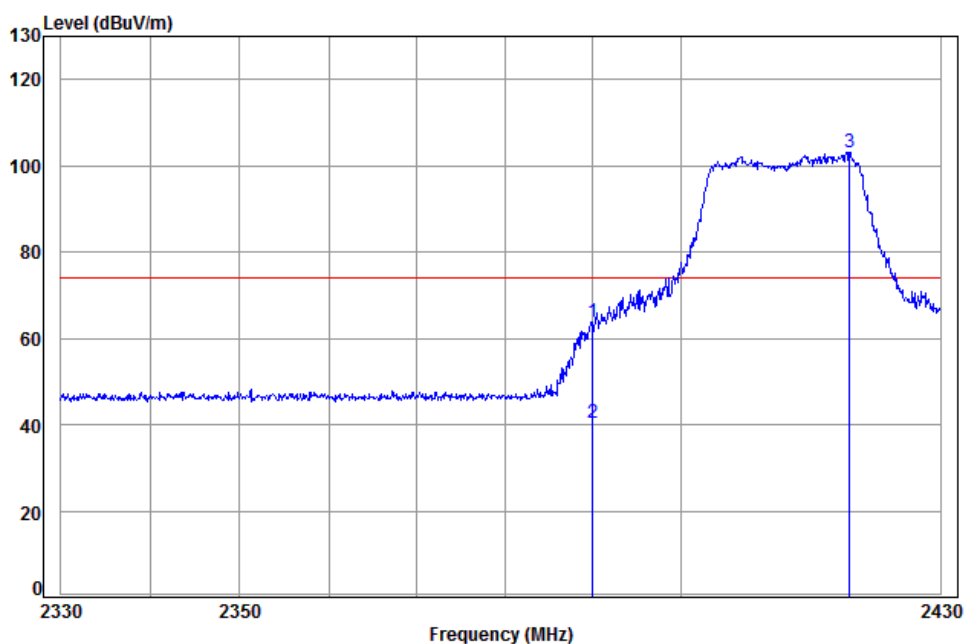


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|                  |               |               |        |         |      |            |
|------------------|---------------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=4

|   |             | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|---|-------------|-------|--------|--------|--------|--------|--------|--------|
|   | Freq        | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|   | MHz         | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 | 2390.000    | 5.34  | 29.08  | 38.14  | 67.51  | 63.79  | 74.00  | -10.21 |
| 2 | av 2390.000 | 5.34  | 29.08  | 38.14  | 44.15  | 40.43  | 54.00  | -13.57 |
| 3 | pp 2419.505 | 5.36  | 29.17  | 38.15  | 106.65 | 103.03 | 74.00  | 29.03  |

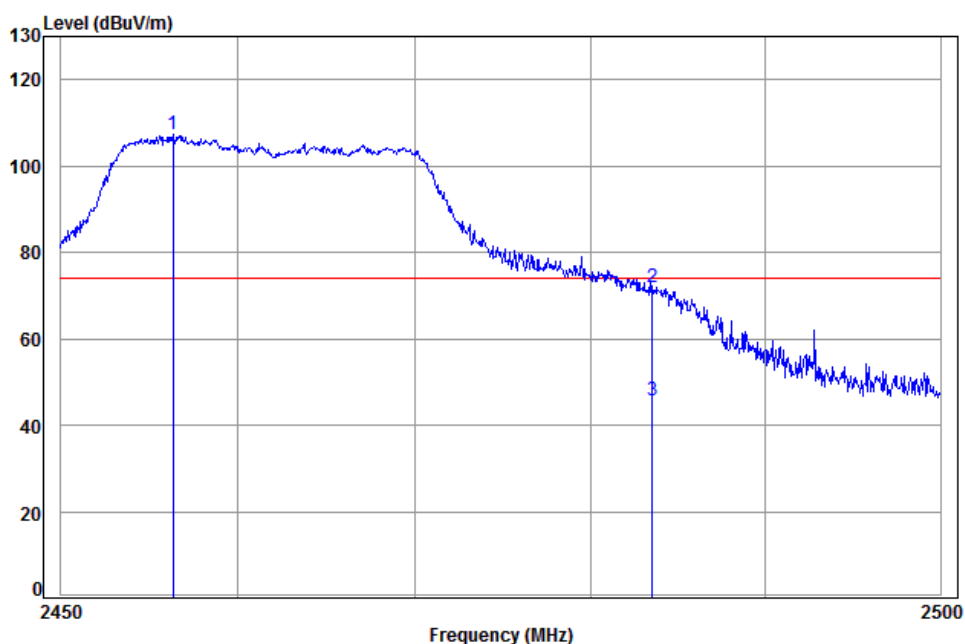


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|                  |               |               |         |         |      |          |
|------------------|---------------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-N20 A=4

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over  |
|------|----------|-------|--------|--------|--------|--------|--------|-------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |
| 1 pp | 2456.294 | 5.39  | 29.27  | 38.15  | 110.68 | 107.19 | 74.00  | 33.19 |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 75.27  | 71.88  | 74.00  | -2.12 |
| 3 av | 2483.500 | 5.41  | 29.35  | 38.15  | 49.24  | 45.85  | 54.00  | -8.15 |

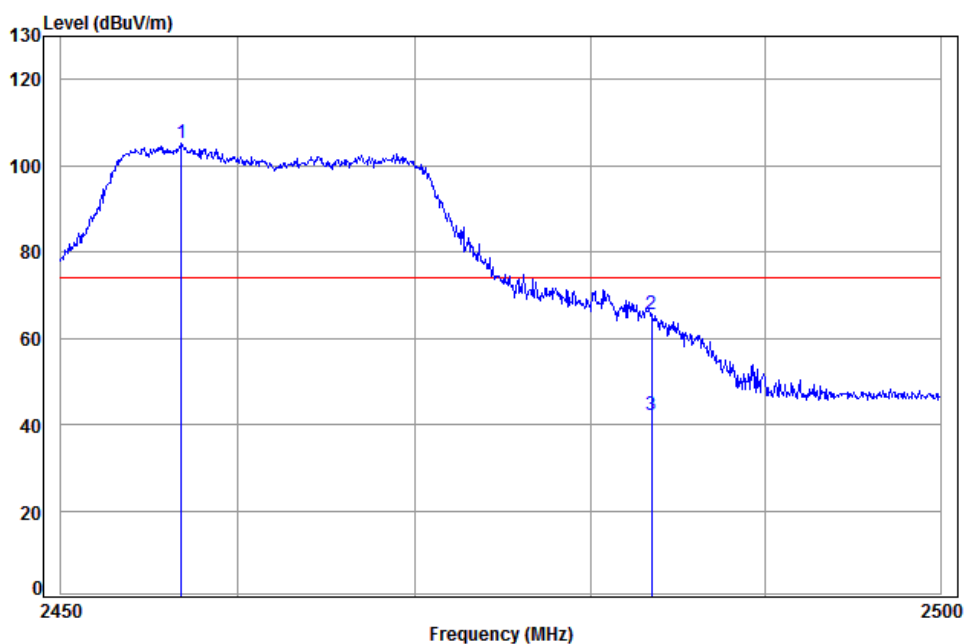


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|                  |               |               |         |         |      |            |
|------------------|---------------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-N20 A=4

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor |        | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2456.791 | 5.39  | 29.27  | 38.15  | 108.53 | 105.04 | 74.00  | 31.04  |
| 2    | 2483.489 | 5.41  | 29.35  | 38.15  | 68.77  | 65.38  | 74.00  | -8.62  |
| 3 av | 2483.489 | 5.41  | 29.35  | 38.15  | 45.48  | 42.09  | 54.00  | -11.91 |

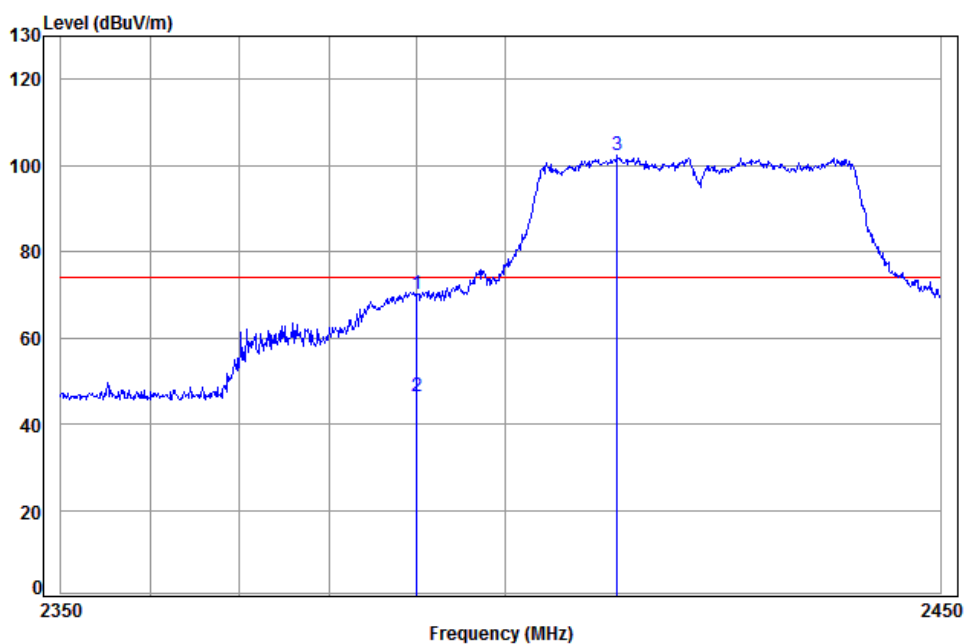


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|                  |               |               |        |         |      |          |
|------------------|---------------|---------------|--------|---------|------|----------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|--------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40 A=4

|      | Freq     | Cable<br>Loss | Ant<br>Factor | Preamp<br>Factor | Read<br>Level | Limit<br>Level | Limit<br>Line | Over<br>Limit |
|------|----------|---------------|---------------|------------------|---------------|----------------|---------------|---------------|
|      | MHz      | dB            | dB/m          | dB               | dBuV          | dBuV/m         | dBuV/m        | dB            |
| 1    | 2390.000 | 5.34          | 29.08         | 38.14            | 73.72         | 70.00          | 74.00         | -4.00         |
| 2 av | 2390.000 | 5.34          | 29.08         | 38.14            | 50.23         | 46.51          | 54.00         | -7.49         |
| 3 pp | 2412.815 | 5.35          | 29.15         | 38.15            | 106.03        | 102.38         | 74.00         | 28.38         |

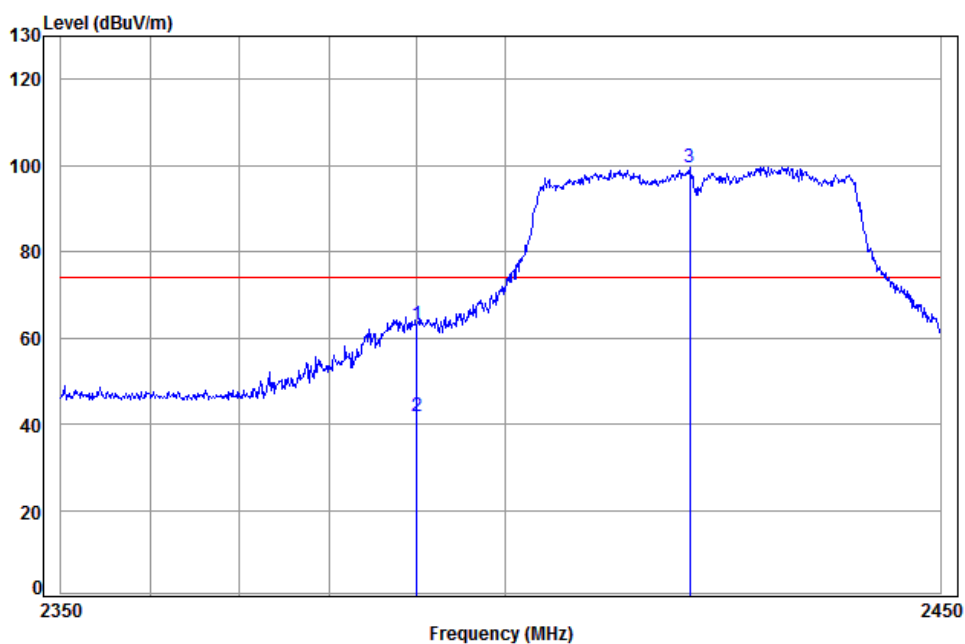


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|                  |               |               |        |         |      |            |
|------------------|---------------|---------------|--------|---------|------|------------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|--------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40 A=4

|      |          | Cable | Ant    | Preamp | Read   | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dB     |
| 1    | 2390.000 | 5.34  | 29.08  | 38.14  | 66.69  | 74.00  | -11.03 |
| 2 av | 2390.000 | 5.34  | 29.08  | 38.14  | 45.43  | 54.00  | -12.29 |
| 3 pp | 2421.074 | 5.36  | 29.17  | 38.15  | 103.30 | 74.00  | 25.68  |

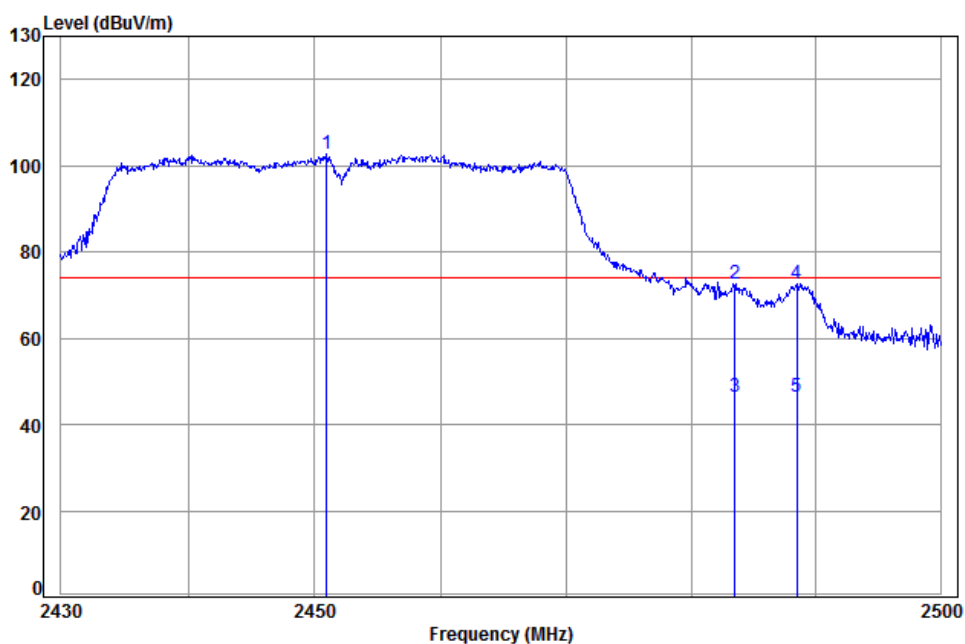


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|                  |               |               |         |         |      |          |
|------------------|---------------|---------------|---------|---------|------|----------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Highest | Remark: | Peak | Vertical |
|------------------|---------------|---------------|---------|---------|------|----------|



Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2452 Bandedge

: WIFI-N40 A=4

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over  |
|------|----------|-------|--------|--------|--------|--------|--------|-------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB    |
| 1 pp | 2450.931 | 5.38  | 29.26  | 38.15  | 106.40 | 102.89 | 74.00  | 28.89 |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 75.88  | 72.49  | 74.00  | -1.51 |
| 3    | 2483.500 | 5.41  | 29.35  | 38.15  | 49.89  | 46.50  | 54.00  | -7.50 |
| 4    | 2488.454 | 5.41  | 29.37  | 38.15  | 75.87  | 72.50  | 74.00  | -1.50 |
| 5 av | 2488.454 | 5.41  | 29.37  | 38.15  | 49.92  | 46.55  | 54.00  | -7.45 |

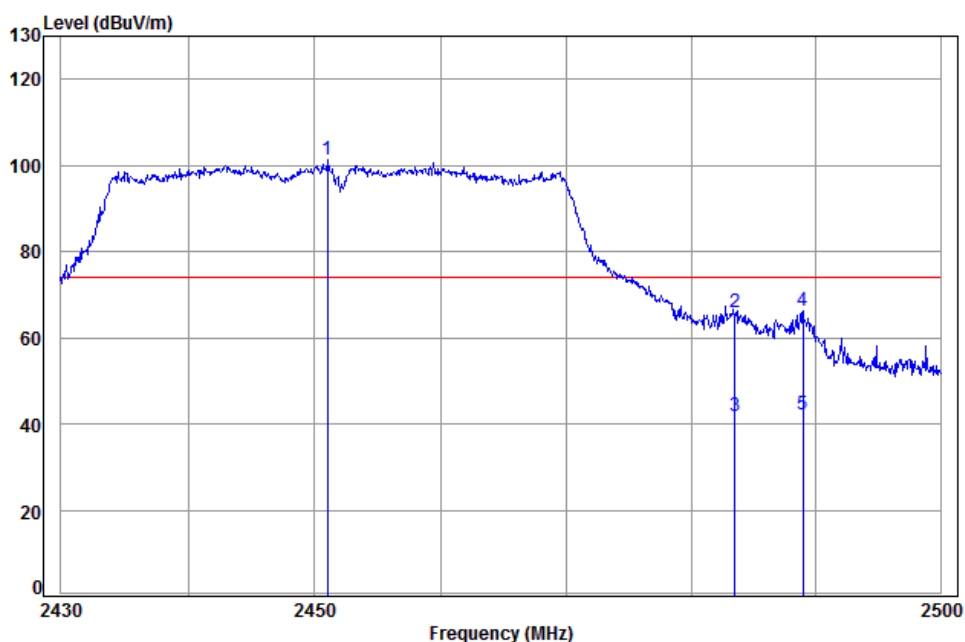


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|                  |               |               |         |         |      |            |
|------------------|---------------|---------------|---------|---------|------|------------|
| Worse case mode: | 802.11n(HT40) | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------------|---------------|---------------|---------|---------|------|------------|



Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2452 Bandedge

: WIFI-N40 A=4

|      |          | Cable | Ant    | Preamp | Read   |        | Limit  | Over   |
|------|----------|-------|--------|--------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level  | Level  | Line   | Limit  |
|      | MHz      | dB    | dB/m   | dB     | dBuV   | dBuV/m | dBuV/m | dB     |
| 1 pp | 2451.000 | 5.38  | 29.26  | 38.15  | 104.70 | 101.19 | 74.00  | 27.19  |
| 2    | 2483.500 | 5.41  | 29.35  | 38.15  | 69.25  | 65.86  | 74.00  | -8.14  |
| 3    | 2483.500 | 5.41  | 29.35  | 38.15  | 45.28  | 41.89  | 54.00  | -12.11 |
| 4    | 2488.949 | 5.41  | 29.37  | 38.15  | 69.68  | 66.31  | 74.00  | -7.69  |
| 5 av | 2488.949 | 5.41  | 29.37  | 38.15  | 45.37  | 42.00  | 54.00  | -12.00 |

## Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$



## **7 Photographs - EUT Test Setup Details**

Refer to Appendix A - Photographs of EUT Test Setup Details for SZEM1610008522RG.