

North 710, Yihua Building, Shennan Road, Futian District,  
Shenzhen, P. R. China  
Telephone: +86-755-29451282,  
Fax: +86-755-22639141

Report No.: FCC12-RTE082103  
Page 1 of 44

# FCC REPORT

**Applicant:** Seco Larm USA Inc

**Address of Applicant:** 16842 Millikan Avenue, Irvine, California, United States

## Equipment Under Test (EUT)

**Product Name:** Wireless HDMI

**Model No.:** MVE-WH010Q/T

**FCC ID:** ERYMVE-WH010QT

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010

**Date of sample receipt:** June 28, 2012

**Date of Test:** July 3 ~ August 10, 2012

**Date of report issue:** August 21, 2012

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Kavin Yu  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Contents

|   | Page |
|---|------|
| 1 COVER PAGE .....                                    | 1    |
| 2 CONTENTS .....                                      | 2    |
| 3 TEST SUMMARY .....                                  | 3    |
| 4 GENERAL INFORMATION .....                           | 4    |
| 4.1 CLIENT INFORMATION .....                          | 4    |
| 4.2 GENERAL DESCRIPTION OF E.U.T .....                | 4    |
| 4.3 TEST MODE .....                                   | 4    |
| 4.4 TEST FACILITY .....                               | 5    |
| 4.5 TEST LOCATION .....                               | 5    |
| 4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER ..... | 5    |
| 4.7 TEST INSTRUMENTS LIST .....                       | 6    |
| 5 TEST RESULTS AND MEASUREMENT DATA .....             | 7    |
| 5.1 ANTENNA REQUIREMENT: .....                        | 7    |
| 5.2 CONDUCTED EMISSIONS .....                         | 8    |
| 5.3 CONDUCTED PEAK OUTPUT POWER .....                 | 11   |
| 5.4 6dB OCCUPY BANDWIDTH .....                        | 16   |
| 5.5 POWER SPECTRAL DENSITY .....                      | 18   |
| 5.6 BAND EDGE .....                                   | 24   |
| 5.6.1 <i>Conducted Emission Method</i> .....          | 24   |
| 5.6.2 <i>Radiated Emission Method</i> .....           | 26   |
| 5.7 RF ANTENNA CONDUCTED SPURIOUS EMISSIONS .....     | 28   |
| 5.8 RADIATED EMISSION .....                           | 32   |
| 5.8.1 <i>Radiated emission below 1GHz</i> .....       | 34   |
| 5.8.2 <i>Transmitter emission above 1GHz</i> .....    | 35   |
| 6 TEST SETUP PHOTO .....                              | 37   |
| 7 EUT CONSTRUCTIONAL DETAILS .....                    | 39   |

### 3 Test Summary

| Test Item                               | Section in CFR 47 | Result |
|---|-------------------|--------|
| Antenna requirement                     | 15.203            | PASS   |
| Conducted emission                      | 15.207            | PASS   |
| Conducted Peak Output Power             | 15.247 (b)(3)     | PASS   |
| 6dB Occupied Bandwidth                  | 15.247 (a)(2)     | PASS   |
| Power Spectral Density                  | 15.247 (e)        | PASS   |
| RF antenna conducted spurious emissions | 15.247(d)         | PASS   |
| Radiated Emission                       | 15.205/15.209     | PASS   |

Remark:

Pass: The EUT complies with the essential requirements in the standard.

Fail: The EUT does not comply with the essential requirements in the standard.

## 4 General Information

### 4.1 Client Information

|                                   |   |
|-----------------------------------|---|
| Applicant:                        | Seco Larm USA Inc   |
| Address of Applicant:             | 16842 Millikan Avenue, Irvine, California, United States  |
| Manufacturer/ Factory:            | HANK Electronics Ltd.   |
| Address of Manufacturer/ Factory: | 2nd floor, Block B9 & 8th floor Block B20, Hengfeng Industrial City, Xixiang Town Baoan District, Shenzhen, China |

### 4.2 General Description of E.U.T.

|                        |   |
|------------------------|---|
| Product Name:          | Wireless HDMI   |
| Model No.:             | MVE-WH010Q/T  |
| Operation Frequency:   | 5190MHz, 5230MHz, 5755MHz, 5795MHz  |
| Channel numbers:       | 4   |
| Test Frequency:        | 5755MHz, 5795MHz  |
| Modulation technology: | OFDM  |
| Antenna Type:          | PCB Antenna (Transmit antenna: 4pcs; receive antenna: 1pcs)   |
| Antenna gain:          | 2dBi  |
| Power supply:          | Adapter Trade mark:GOSPELL<br>Adapter Model:GP005U-050-200<br>Adapter Input:100-240VAC, 50/60Hz, 0.5A<br>Adapter Output:5VDC, 2.0A 10VA max |

### 4.3 Test mode

|                   |   |
|-------------------|---|
| Transmitting mode | Keep the EUT in transmitting MIMO mode with modulation. |
|-------------------|---|

## 4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, July 20, 2010.

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

## 4.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

## 4.6 Other Information Requested by the Customer

None.

## 4.7 Test Instruments list

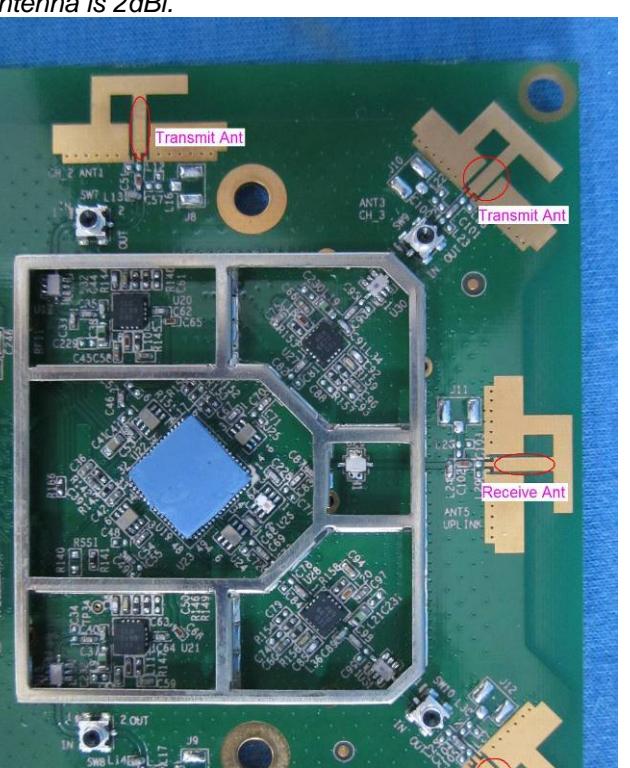
| Radiated Emission: |                               |                             |                       |               |                     |                         |
|--------------------|-------------------------------|-----------------------------|-----------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                | Manufacturer                | Model No.             | Inventory No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| 1                  | 3m Semi-Anechoic Chamber      | ZhongYu Electron            | 9.2(L)*6.2(W)* 6.4(H) | GTS201        | Mar. 30 2011        | Mar. 29 2013            |
| 2                  | Control Room                  | ZhongYu Electron            | 6.2(L)*2.5(W)* 2.4(H) | GTS202        | N/A                 | N/A                     |
| 3                  | EMI Test Receiver             | Rohde & Schwarz             | ESU26                 | GTS203        | Jul. 03 2012        | Jul. 02 2013            |
| 4                  | Spectrum analyzer             | Rohde & Schwarz             | FSP40                 | GTS203        | Sep. 8 2012         | Sep. 7 2013             |
| 5                  | 8-WAY Power Divider           | JFW                         | 50PD-647              | GTS203        | Sep. 8 2012         | Sep. 7 2013             |
| 6                  | BiConiLog Antenna             | SCHWARZBECK MESS-ELEKTRONIK | VULB9163              | GTS204        | Feb. 25 2012        | Feb. 24 2013            |
| 7                  | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829             | GTS205        | June 29 2012        | June 28 2013            |
| 8                  | Horn Antenna                  | SCHWARZBECK MESS-ELEKTRONIK | 9170                  | GTS205        | Mar. 30 2011        | Mar. 29 2013            |
| 9                  | EMI Test Software             | AUDIX                       | E3                    | N/A           | N/A                 | N/A                     |
| 10                 | Coaxial Cable                 | GTS                         | N/A                   | GTS400        | Mar. 31 2012        | Mar. 30 2013            |
| 11                 | Coaxial Cable                 | GTS                         | N/A                   | GTS401        | Mar. 31 2012        | Mar. 30 2013            |
| 12                 | Coaxial cable                 | GTS                         | N/A                   | GTS402        | Mar. 31 2012        | Mar. 30 2013            |
| 13                 | Coaxial Cable                 | GTS                         | N/A                   | GTS407        | Mar. 31 2012        | Mar. 30 2013            |
| 14                 | Coaxial Cable                 | GTS                         | N/A                   | GTS408        | Mar. 31 2012        | Mar. 30 2013            |
| 15                 | Amplifier                     | Sonoma Instrument           | 305-1052              | GTS210        | Jul. 03 2012        | Jul. 02 2013            |
| 16                 | Amplifier                     | HP                          | 8349B                 | GTS231        | Jul. 03 2012        | Jul. 02 2013            |

| Conducted Emission: |                   |                             |                      |               |                     |                         |
|---------------------|-------------------|-----------------------------|----------------------|---------------|---------------------|-------------------------|
| Item                | Test Equipment    | Manufacturer                | Model No.            | Inventory No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| 1                   | Shielding Room    | ZhongYu Electron            | 7.0(L)x3.0(W)x3.0(H) | GTS206        | Jul. 03 2012        | Jul. 02 2013            |
| 2                   | EMI Test Receiver | Rohde & Schwarz             | ESCS30               | GTS208        | Jul. 03 2012        | Jul. 02 2013            |
| 3                   | 10dB Pulse Limita | Rohde & Schwarz             | N/A                  | GTS209        | Jul. 03 2012        | Jul. 02 2013            |
| 4                   | LISN              | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127            | GTS207        | Jul. 03 2012        | Jul. 02 2013            |
| 5                   | Coaxial Cable     | GTS                         | N/A                  | GTS406        | Mar. 31 2012        | Mar. 30 2013            |
| 6                   | EMI Test Software | AUDIX                       | E3                   | N/A           | N/A                 | N/A                     |

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## 5 Test results and Measurement Data

## 5.1 Antenna requirement:

| Standard requirement: | FCC Part15 C Section 15.203  |
|-----------------------|--|
| 15.203 requirement:   | <p><i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i></p> |
| E.U.T Antenna:        | <p><i>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.</i></p>    |

## 5.2 Conducted Emissions

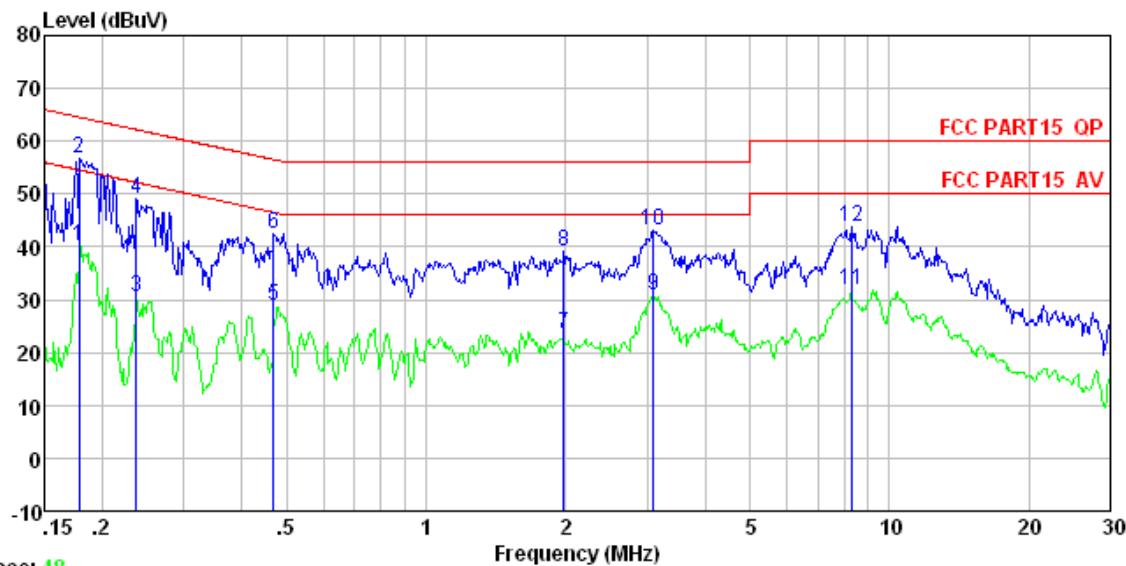
| Test Requirement:     | FCC Part15 C Section 15.207  |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|--|-----------|--|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method:          | ANSI C63.4: 2003   |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Frequency Range: | 150KHz to 30MHz  |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Class / Severity:     | Class B  |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Receiver setup:       | RBW=9KHz, VBW=30KHz  |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Limit:                | <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>  |           |  | Frequency range (MHz) | Limit (dBuV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV)   |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak   | Average   |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*  | 56 to 46* |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56   | 46        |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60   | 50        |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | * Decreases with the logarithm of the frequency.   |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test procedure        | <p>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</p> |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test setup:           | <p><b>Reference Plane</b></p> <p><i>Remark:</i><br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p>  |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Instruments:     | Refer to section 4.7 for details   |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test mode:            | Refer to section 4.3 for details   |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test results:         | Pass   |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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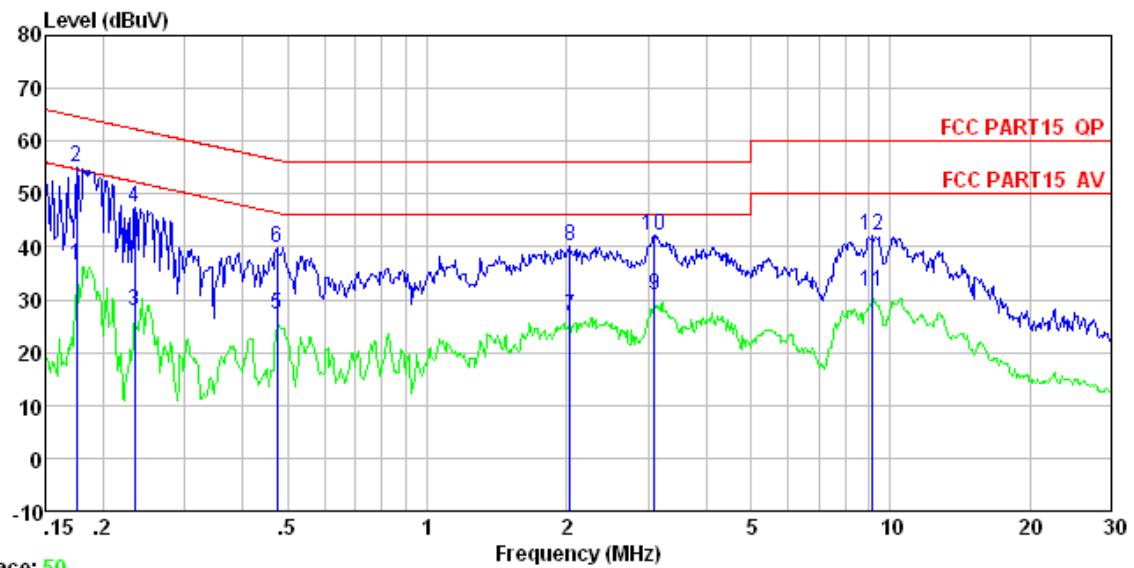
Line:



Site : Shielded room  
 Condition : FCC PART15 QP LISN(2011) LINE

Job No. : 705RF  
 Test Mode : Operation  
 Test Engineer: HuXiaohe  
 Remark : Transmitter

| Freq | Read  | LISN   | Cable | Limit | Over  | Remark               |
|------|-------|--------|-------|-------|-------|----------------------|
|      | Level | Factor | Loss  | Level | Line  |                      |
| MHz  | dBuV  | dB     | dB    | dBuV  | dBuV  | dB                   |
| 1    | 0.179 | 39.40  | 0.67  | 0.10  | 40.17 | 54.55 -14.38 Average |
| 2    | 0.179 | 55.86  | 0.67  | 0.10  | 56.63 | 64.55 -7.92 QP       |
| 3    | 0.237 | 29.70  | 0.64  | 0.10  | 30.44 | 52.22 -21.78 Average |
| 4    | 0.237 | 48.32  | 0.64  | 0.10  | 49.06 | 62.22 -13.16 QP      |
| 5    | 0.469 | 28.30  | 0.56  | 0.10  | 28.96 | 46.54 -17.58 Average |
| 6    | 0.469 | 41.96  | 0.56  | 0.10  | 42.62 | 56.54 -13.92 QP      |
| 7    | 1.980 | 23.20  | 0.40  | 0.10  | 23.70 | 46.00 -22.30 Average |
| 8    | 1.980 | 38.51  | 0.40  | 0.10  | 39.01 | 56.00 -16.99 QP      |
| 9    | 3.090 | 30.30  | 0.35  | 0.10  | 30.75 | 46.00 -15.25 Average |
| 10   | 3.090 | 42.59  | 0.35  | 0.10  | 43.04 | 56.00 -12.96 QP      |
| 11   | 8.323 | 31.27  | 0.24  | 0.18  | 31.69 | 50.00 -18.31 Average |
| 12   | 8.323 | 43.43  | 0.24  | 0.18  | 43.85 | 60.00 -16.15 QP      |

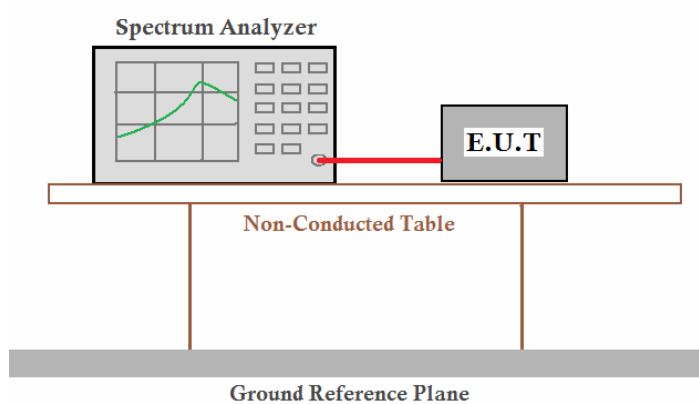
**Neutral:**

| Freq | Read  |       | LISN  | Cable  | Limit | Over  | Remark |         |        |
|------|-------|-------|-------|--------|-------|-------|--------|---------|--------|
|      | MHz   | dBuV  | Level | Factor | dB    | dBuV  | Line   | Limit   | Remark |
| 1    | 0.175 | 35.70 | 0.67  | 0.10   | 36.47 | 54.72 | -18.25 | Average |        |
| 2    | 0.175 | 54.30 | 0.67  | 0.10   | 55.07 | 64.72 | -9.65  | QP      |        |
| 3    | 0.234 | 27.20 | 0.64  | 0.10   | 27.94 | 52.30 | -24.36 | Average |        |
| 4    | 0.234 | 46.58 | 0.64  | 0.10   | 47.32 | 62.30 | -14.98 | QP      |        |
| 5    | 0.474 | 26.60 | 0.56  | 0.10   | 27.26 | 46.45 | -19.19 | Average |        |
| 6    | 0.474 | 39.17 | 0.56  | 0.10   | 39.83 | 56.45 | -16.62 | QP      |        |
| 7    | 2.033 | 26.40 | 0.40  | 0.10   | 26.90 | 46.00 | -19.10 | Average |        |
| 8    | 2.033 | 39.73 | 0.40  | 0.10   | 40.23 | 56.00 | -15.77 | QP      |        |
| 9    | 3.090 | 30.36 | 0.35  | 0.10   | 30.81 | 46.00 | -15.19 | Average |        |
| 10   | 3.090 | 41.85 | 0.35  | 0.10   | 42.30 | 56.00 | -13.70 | QP      |        |
| 11   | 9.156 | 31.00 | 0.23  | 0.19   | 31.42 | 50.00 | -18.58 | Average |        |
| 12   | 9.156 | 41.64 | 0.23  | 0.19   | 42.06 | 60.00 | -17.94 | QP      |        |

**Notes:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

### 5.3 Conducted Peak Output Power

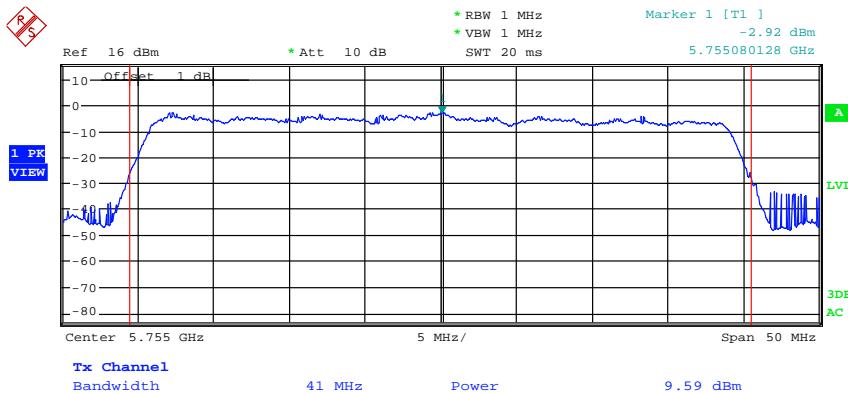
|                   |  |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3)   |
| Test Method:      | ANSI C63.4:2003 and KDB558074 D01  |
| Limit:            | 30dBm  |
| Test setup:       |   |
| Test procedure:   | <p>As an alternative to Publication: 662911 D01, the test method is “measure and sum”, In the measure and sum approach, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units (e.g., mW—not dBm).</p> <p>The EUT peak power was measured with a peak power meter employing a video bandwidth greater than 6dB BW of the emission under test. Peak output power was read directly from the spectrum analyzer across all data rates, Special care was used to make sure that the EUT was transmitting in continuous mode.</p> |
| Test Instruments: | Refer to section 4.7 for details   |
| Test mode:        | Refer to section 4.3 for details   |
| Test results:     | Pass   |

**Measurement Data**

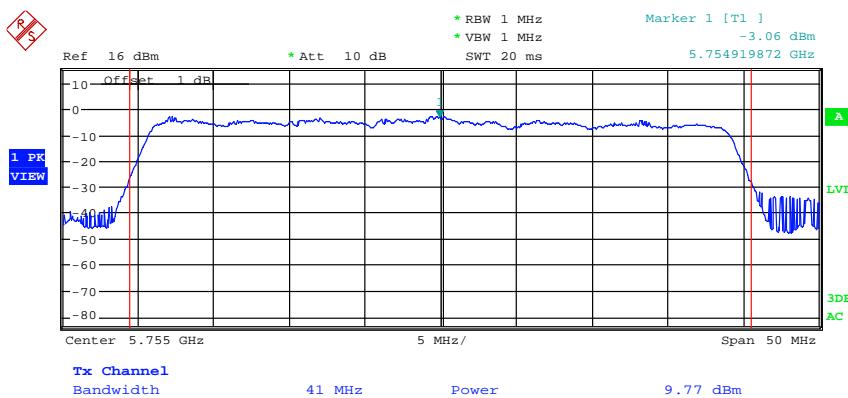
| Channel | Antenna | Output power (dBm) | Sum Output Power (dBm) | Limit (dBm) | Result |
|---------|---------|--------------------|------------------------|-------------|--------|
| 5755MHz | 1       | 9.59               | 15.82                  | 30.00       | Pass   |
|         | 2       | 9.77               |                        |             |        |
|         | 3       | 9.83               |                        |             |        |
|         | 4       | 9.98               |                        |             |        |
| 5795MHz | 1       | 9.30               | 15.58                  | 30.00       | Pass   |
|         | 2       | 9.46               |                        |             |        |
|         | 3       | 9.62               |                        |             |        |
|         | 4       | 9.84               |                        |             |        |

**Test plot as follows:**

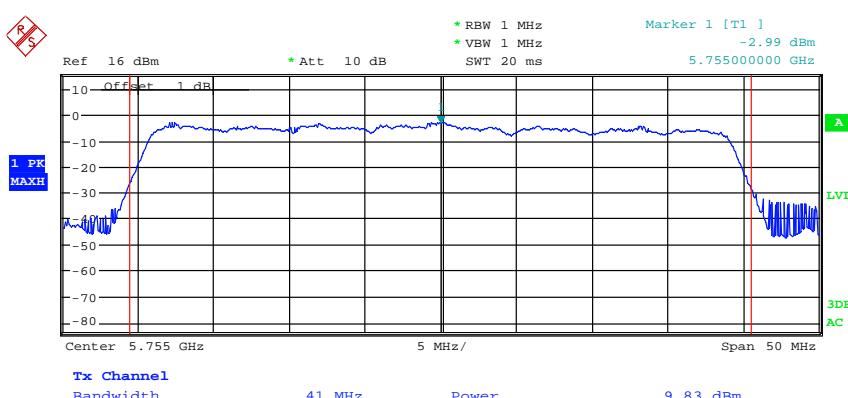
|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5755MHz | Test item: | Output power | Antenna: | 1 |
|----------|---------|------------|--------------|----------|---|



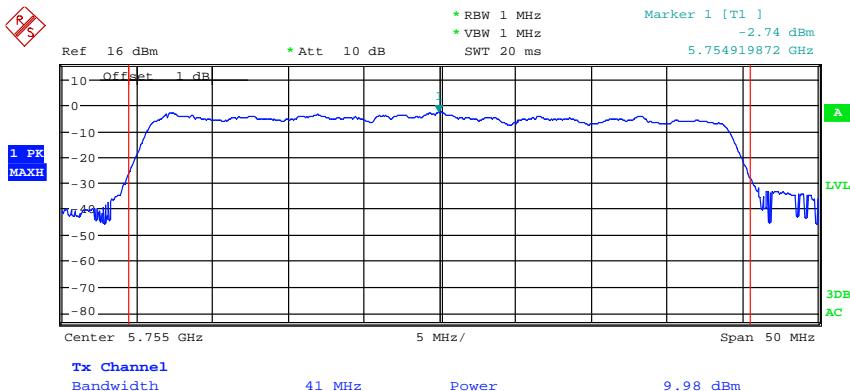
|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5755MHz | Test item: | Output power | Antenna: | 2 |
|----------|---------|------------|--------------|----------|---|



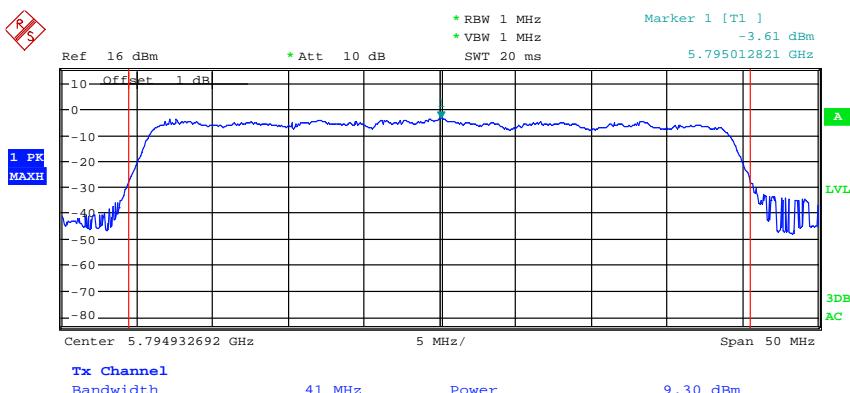
|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5755MHz | Test item: | Output power | Antenna: | 3 |
|----------|---------|------------|--------------|----------|---|



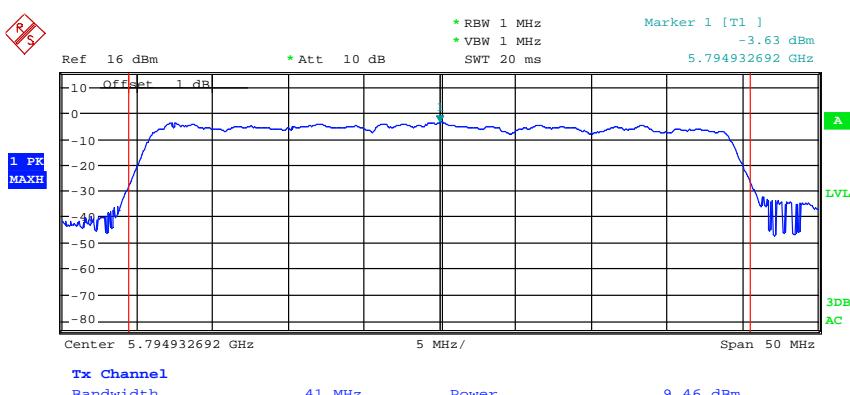
|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5755MHz | Test item: | Output power | Antenna: | 4 |
|----------|---------|------------|--------------|----------|---|



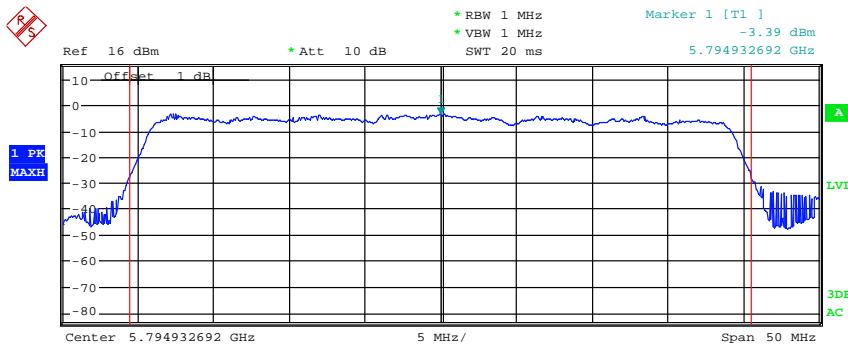
|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5795MHz | Test item: | Output power | Antenna: | 1 |
|----------|---------|------------|--------------|----------|---|



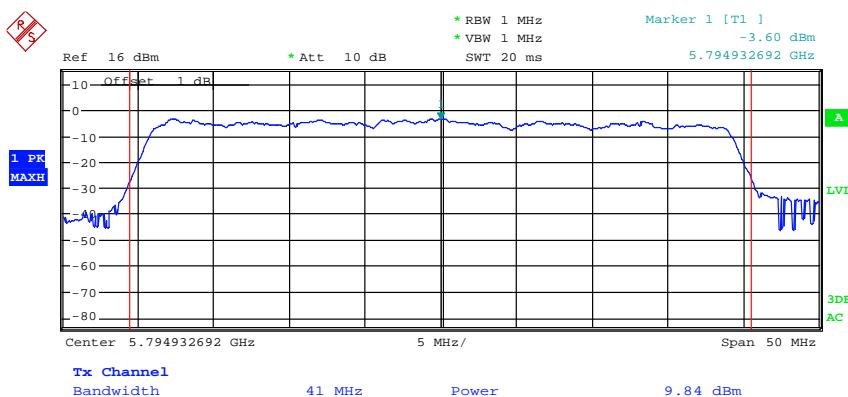
|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5795MHz | Test item: | Output power | Antenna: | 2 |
|----------|---------|------------|--------------|----------|---|



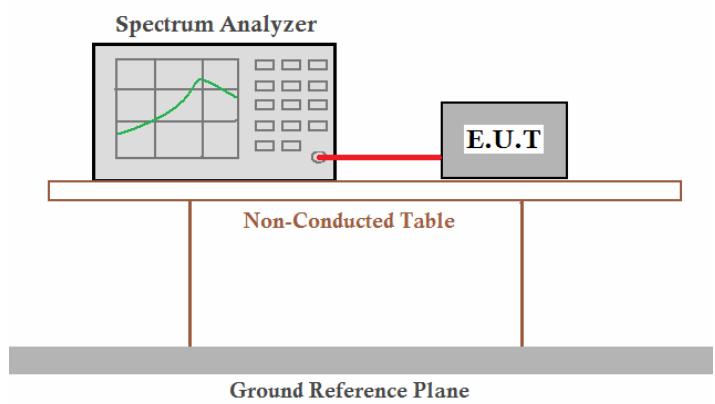
|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5795MHz | Test item: | Output power | Antenna: | 3 |
|----------|---------|------------|--------------|----------|---|



|          |         |            |              |          |   |
|----------|---------|------------|--------------|----------|---|
| Channel: | 5795MHz | Test item: | Output power | Antenna: | 4 |
|----------|---------|------------|--------------|----------|---|



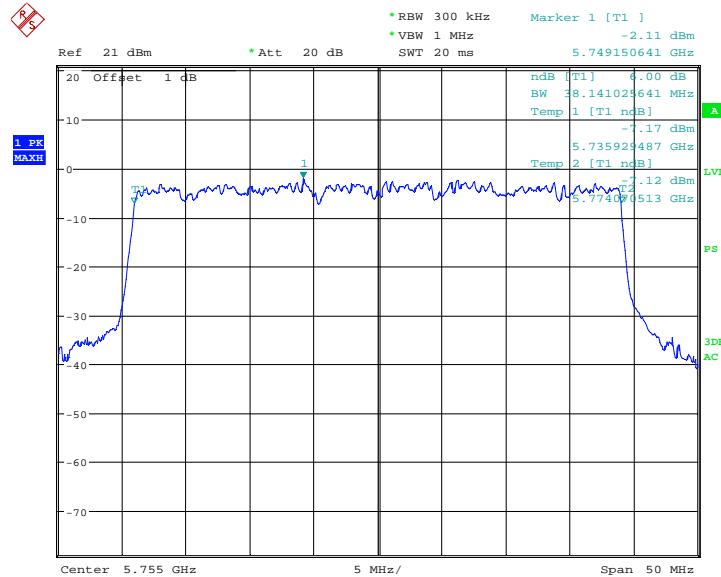
## 5.4 6dB Occupy Bandwidth

|                   |   |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2)  |
| Test Method:      | ANSI C63.4:2003 and KDB558074 D01   |
| Limit:            | >500KHz   |
| Test setup:       |  |
| Test Instruments: | Refer to section 4.7 for details  |
| Test mode:        | Refer to section 4.3 for details  |
| Test results:     | Pass  |

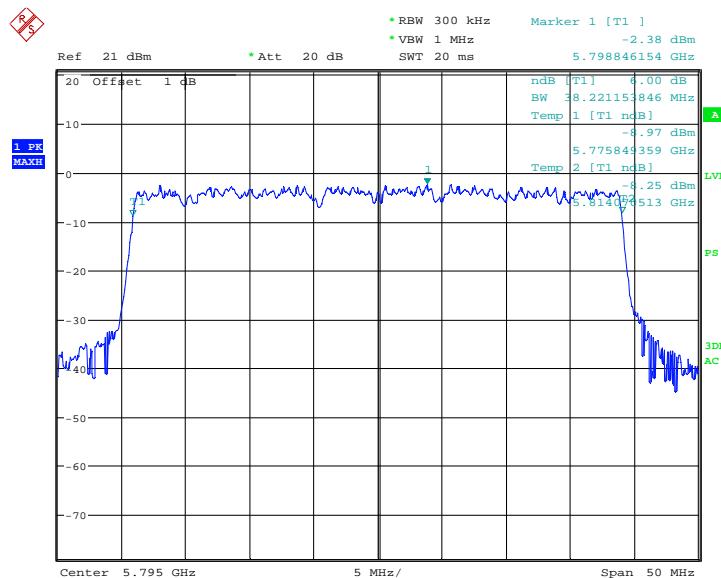
### Measurement Data

| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (KHz) | Result |
|--------------|----------------------------|-------------|--------|
| 5755 MHz     | 38.141                     | >500        | Pass   |
| 5795 MHz     | 38.221                     | >500        | Pass   |

### Test plot as follows:

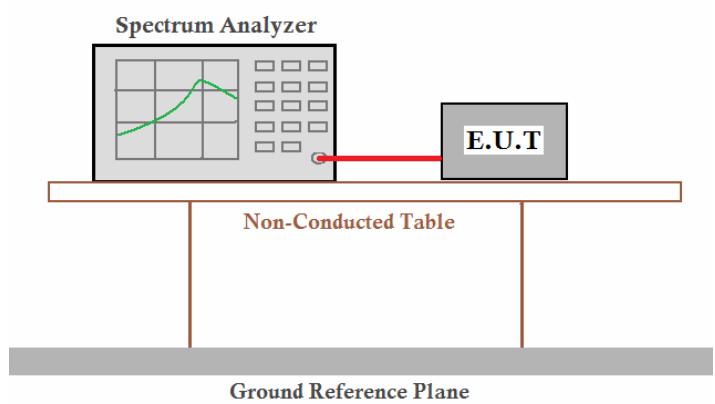


5755MHz



5795MHz

## 5.5 Power Spectral Density

|                   |   |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (e)   |
| Test Method:      | ANSI C63.4:2003 and KDB558074 D01   |
| Limit:            | 8dBm  |
| Test setup:       |  <p>The diagram illustrates a non-conducted test setup. A Spectrum Analyzer is connected to a Non-Conducted Table, which holds the E.U.T (Equipment Under Test). The table sits on a Ground Reference Plane.</p> |
| Test procedure:   | As an alternative to Publication: 662911 D01, Measure and sum the PSDs across the outputs. With this technique, PSD is measured at each output of the device. The individual PSDs are then summed mathematically in linear power units  |
| Test Instruments: | Refer to section 4.7 for details  |
| Test mode:        | Refer to section 4.3 for details  |
| Test results:     | Pass  |

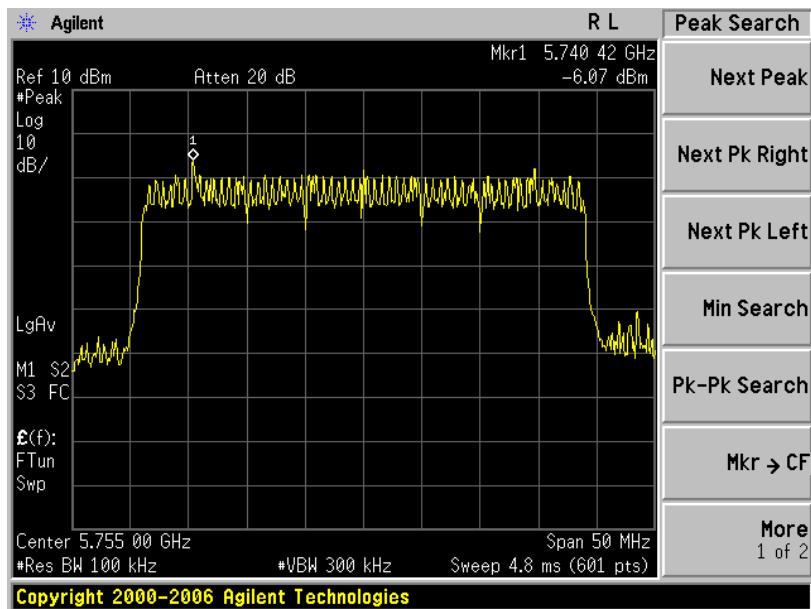
**Test plot as follows:**

**Measurement Data**

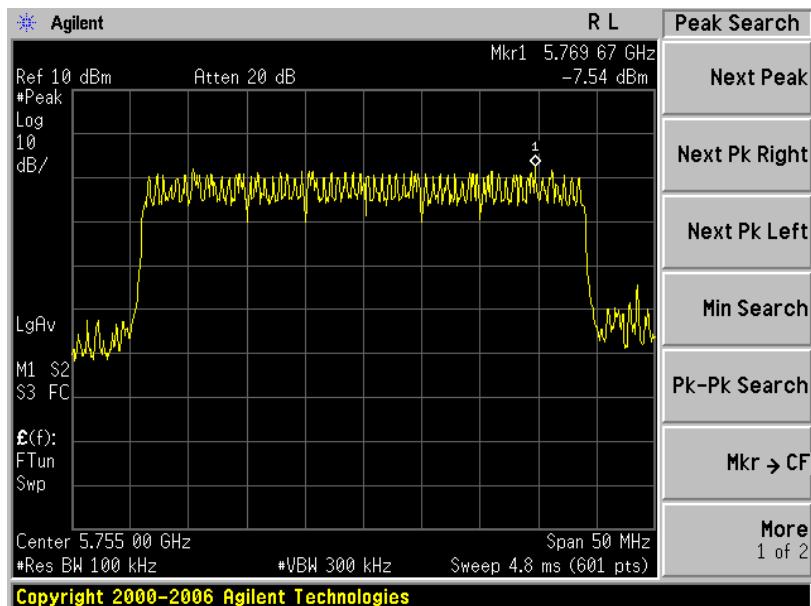
| Channel | ANT | Power Spectral Density<br>(dBm/100KHz) | BWCF   | Power<br>Spectral<br>Density<br>(dBm/3KHz) | Sum Power<br>Spectral<br>density<br>(dBm/3KHz) | Limit<br>(dBm/3KHz) | Result |
|---------|-----|--|--------|--|--|---------------------|--------|
| 5755MHz | 1   | -6.07                                  | -15.20 | -21.27                                     | -15.69   | 8.00                | Pass   |
|         | 2   | -7.54                                  |        | -22.74                                     |  |                     |        |
|         | 3   | -7.22                                  |        | -22.42                                     |  |                     |        |
|         | 4   | -5.51                                  |        | -20.71                                     |  |                     |        |
| 5795MHz | 1   | -6.89                                  | -15.20 | -22.09                                     | -16.75   |                     |        |
|         | 2   | -8.53                                  |        | -23.73                                     |  |                     |        |
|         | 3   | -8.38                                  |        | -23.58                                     |  |                     |        |
|         | 4   | -6.79                                  |        | -21.99                                     |  |                     |        |

Remark: BWCF =  $10\log(3 \text{ kHz}/100 \text{ kHz}) = -15.20 \text{ dB}$ **Test plot as follows:**

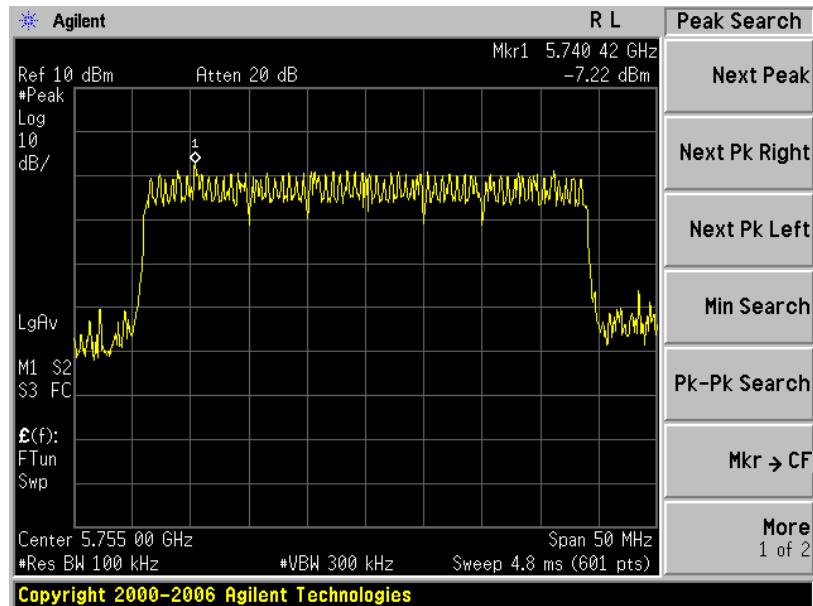
|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5755MHz | Test item: | power density | Antenna: | 1 |
|----------|---------|------------|---------------|----------|---|



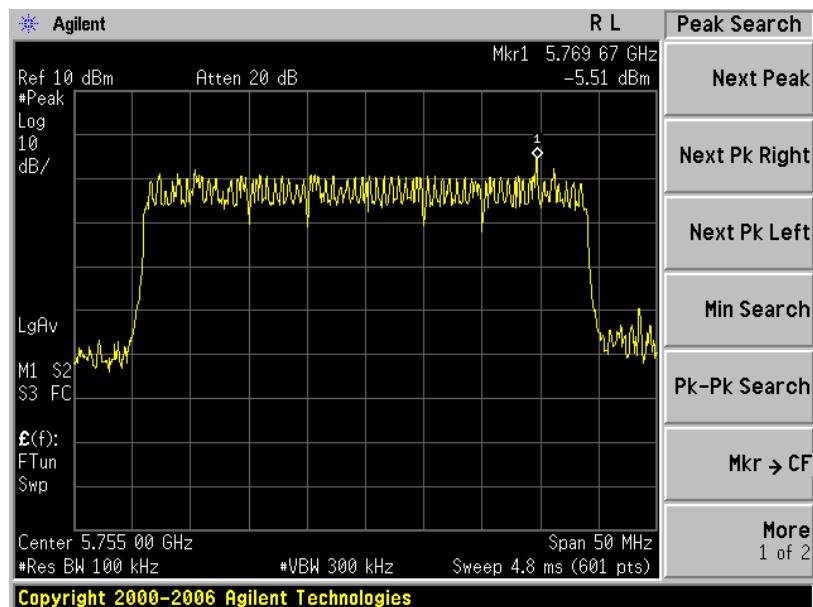
|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5755MHz | Test item: | power density | Antenna: | 2 |
|----------|---------|------------|---------------|----------|---|



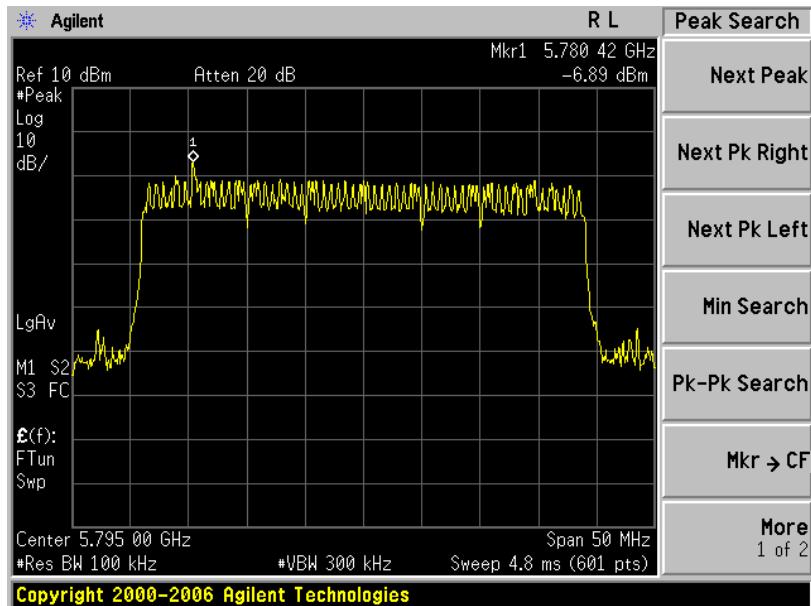
|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5755MHz | Test item: | power density | Antenna: | 3 |
|----------|---------|------------|---------------|----------|---|



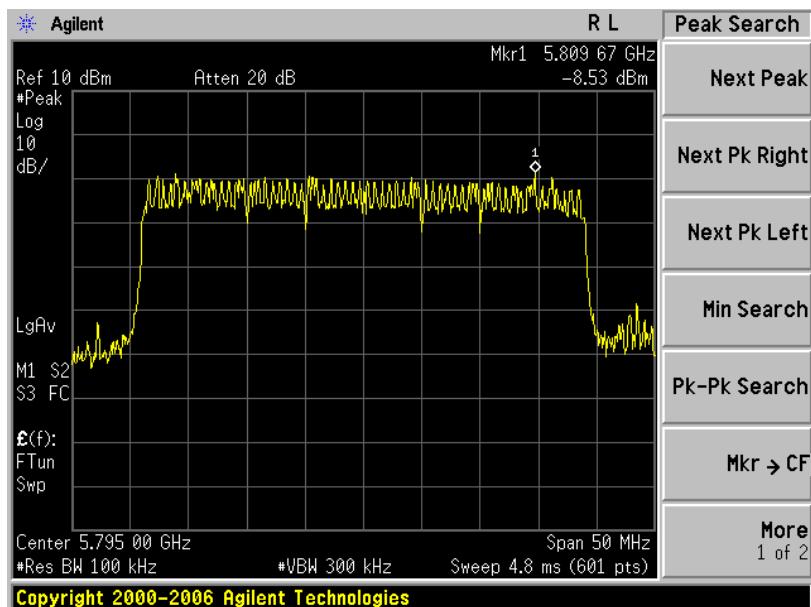
|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5755MHz | Test item: | power density | Antenna: | 4 |
|----------|---------|------------|---------------|----------|---|



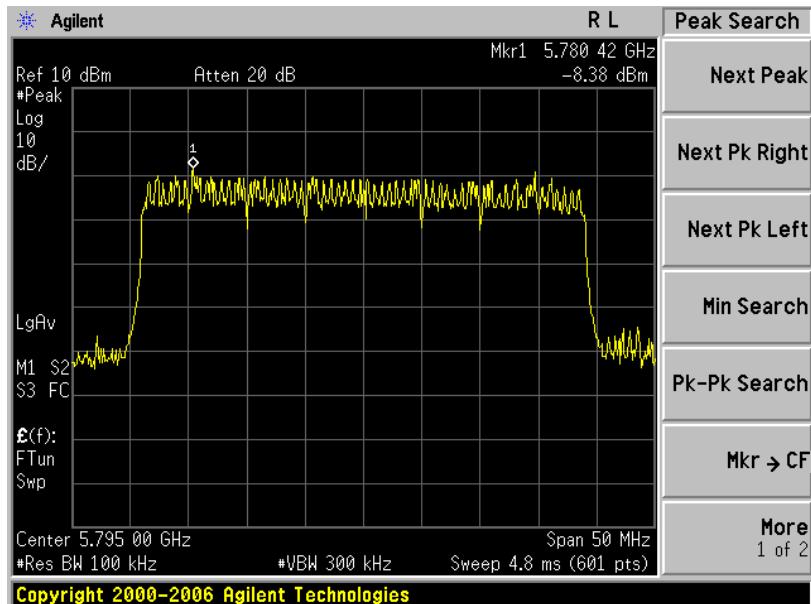
|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5795MHz | Test item: | power density | Antenna: | 1 |
|----------|---------|------------|---------------|----------|---|



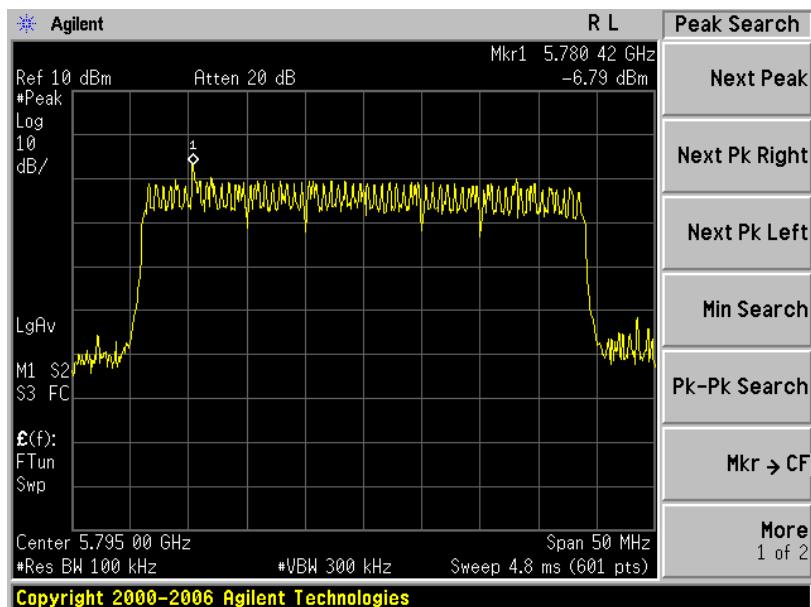
|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5795MHz | Test item: | power density | Antenna: | 2 |
|----------|---------|------------|---------------|----------|---|



|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5795MHz | Test item: | power density | Antenna: | 3 |
|----------|---------|------------|---------------|----------|---|

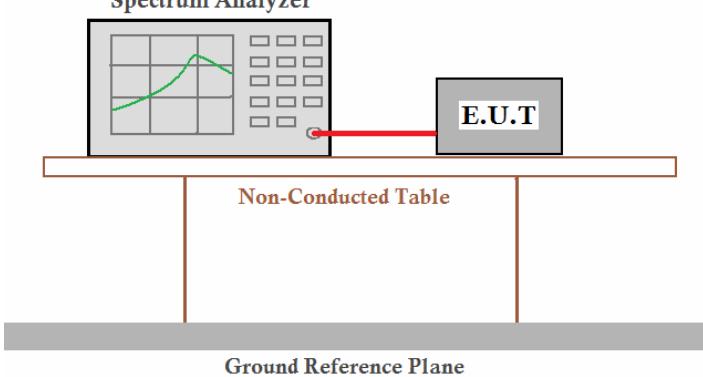


|          |         |            |               |          |   |
|----------|---------|------------|---------------|----------|---|
| Channel: | 5795MHz | Test item: | power density | Antenna: | 4 |
|----------|---------|------------|---------------|----------|---|



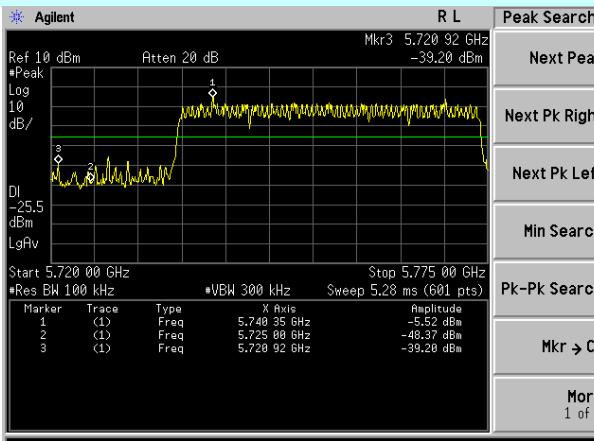
## 5.6 Band Edge

### 5.6.1 Conducted Emission Method

|                   |   |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d)   |
| Test Method:      | ANSI C63.4:2003 and KDB558074 D01 Meas Guidance   |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test setup:       | <p style="text-align: center;"><b>Spectrum Analyzer</b></p>  <p style="text-align: center;">Non-Conducted Table</p> <p style="text-align: center;">Ground Reference Plane</p>  |
| Test Instruments: | Refer to section 4.7 for details  |
| Test mode:        | 4 antenna ports were tested, and the worst case is antenna port 4, so the data shows that port's only.  |
| Test results:     | Pass  |

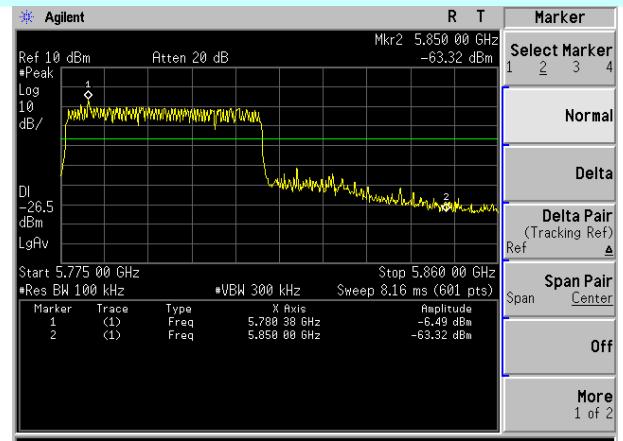
**Test plot as follows:**

## Antenna port:4



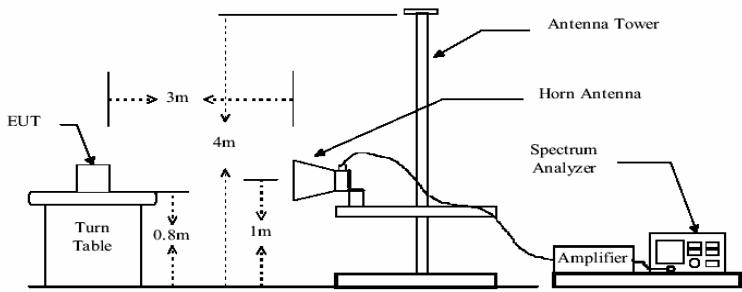
Lowest channel

## Antenna port:4



Highest channel

### 5.6.2 Radiated Emission Method

|                       |  |                    |      |               |               |  |  |  |  |
|-----------------------|--|--------------------|------|---------------|---------------|--|--|--|--|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205   |                    |      |               |               |  |  |  |  |
| Test Method:          | ANSI C63.4: 2003   |                    |      |               |               |  |  |  |  |
| Test Frequency Range: | 30MHz to 40GHz, only worse case is reported  |                    |      |               |               |  |  |  |  |
| Test site:            | Measurement Distance: 3m   |                    |      |               |               |  |  |  |  |
| Receiver setup:       | Frequency  | Detector           | RBW  | VBW           | Remark        |  |  |  |  |
|                       | Above 1GHz   | Peak               | 1MHz | 3MHz          | Peak Value    |  |  |  |  |
|                       |  | AV                 | 1MHz | 10Hz          | Average Value |  |  |  |  |
| Limit:                | Frequency  | Limit (dBuV/m @3m) |      | Remark        |               |  |  |  |  |
|                       | Above 1GHz   | 54.00              |      | Average Value |               |  |  |  |  |
|                       |  | 74.00              |      | Peak Value    |               |  |  |  |  |
| Test setup:           |   |                    |      |               |               |  |  |  |  |
| Test Procedure:       | <ol style="list-style-type: none"> <li>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>The EUT was set to operate with MIMO modes.</li> <li>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>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>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>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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 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.</li> </ol> |                    |      |               |               |  |  |  |  |
| Test Instruments:     | Refer to section 4.7 for details   |                    |      |               |               |  |  |  |  |
| Test mode:            | Refer to section 4.3 for details   |                    |      |               |               |  |  |  |  |
| Test results:         | Pass   |                    |      |               |               |  |  |  |  |

**Measurement data:**

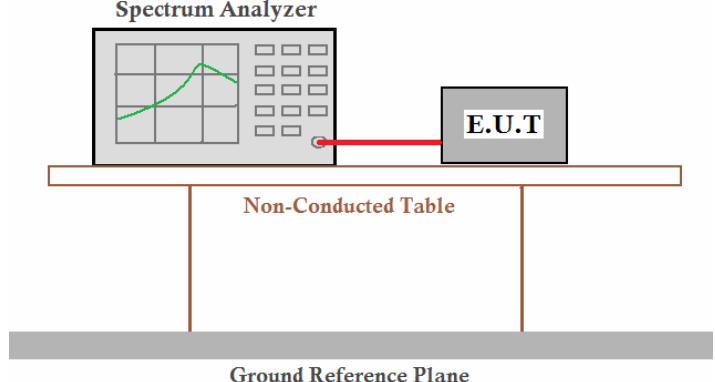
| Test Channel:   |                   | 5755MHz               |                 | Remark:            |                |                     | Peak            |              |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5725.00         | 45.36             | 33.62                 | 5.84            | 32.83              | 51.99          | 74.00               | -22.01          | Horizontal   |
| 5725.00         | 47.59             | 33.62                 | 5.84            | 32.83              | 54.22          | 74.00               | -19.78          | Vertical     |

| Test Channel:   |                   | 5755MHz               |                 | Remark:            |                |                     | Average         |              |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5725.00         | 36.22             | 33.62                 | 5.84            | 32.83              | 42.85          | 54.00               | -11.15          | Horizontal   |
| 5725.00         | 37.67             | 33.62                 | 5.84            | 32.83              | 44.30          | 54.00               | -9.70           | Vertical     |

| Test Channel:   |                   | 5795MHz               |                 | Remark:            |                |                     | Peak            |              |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00         | 46.86             | 34.17                 | 5.96            | 33.26              | 53.73          | 74.00               | -20.27          | Horizontal   |
| 5850.00         | 47.88             | 34.17                 | 5.96            | 33.26              | 54.75          | 74.00               | -19.25          | Vertical     |

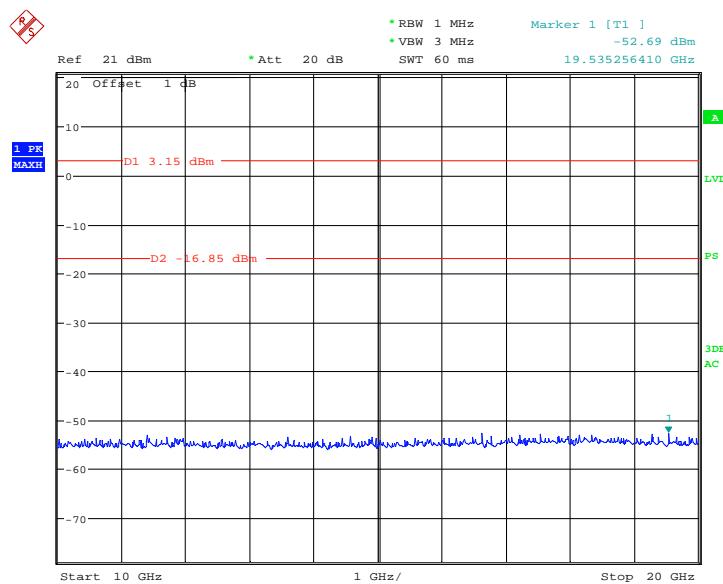
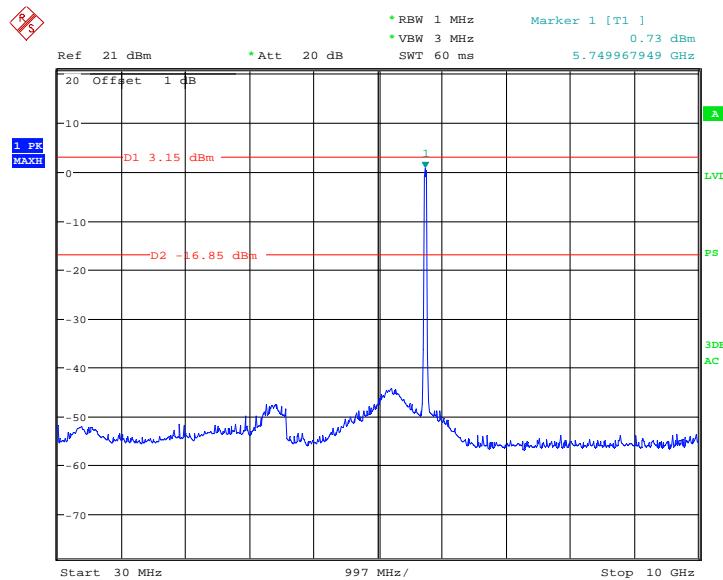
| Test Channel:   |                   | 5795MHz               |                 | Remark:            |                |                     | Average         |              |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5850.00         | 34.48             | 34.17                 | 5.96            | 33.26              | 41.35          | 54.00               | -12.65          | Horizontal   |
| 5850.00         | 36.71             | 34.17                 | 5.96            | 33.26              | 43.58          | 54.00               | -10.42          | Vertical     |

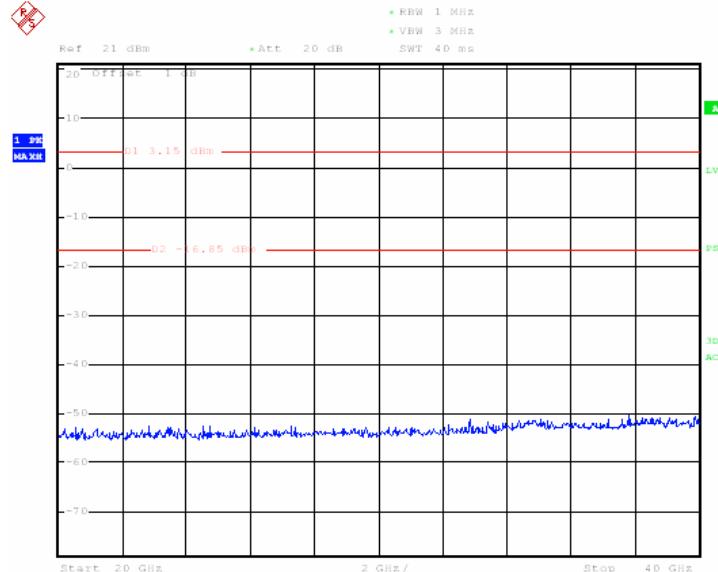
## 5.7 RF Antenna Conducted spurious emissions

|                   |  |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (d)  |
| Test Method:      | ANSI C63.4:2003 and KDB558074 D01  |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 5795MHzest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>  |
| Test Instruments: | Refer to section 4.7 for details   |
| Test mode:        | Refer to section 4.3 for details   |
| Test results:     | Pass   |

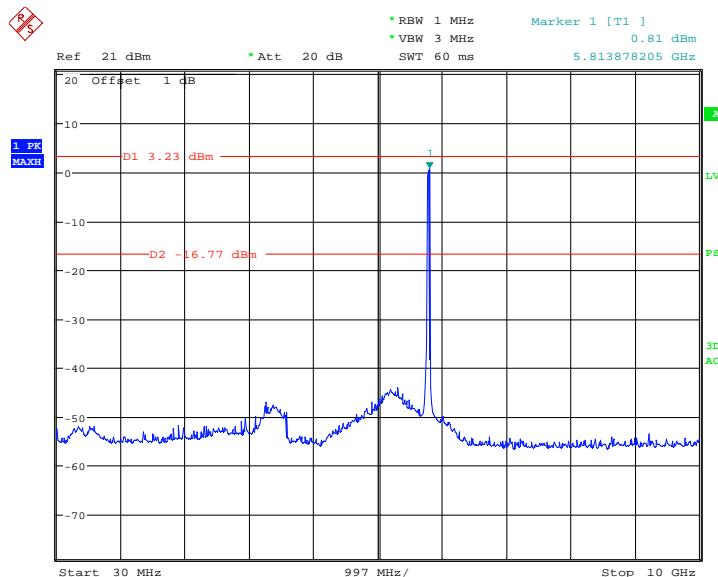
**Test plot as follows:**

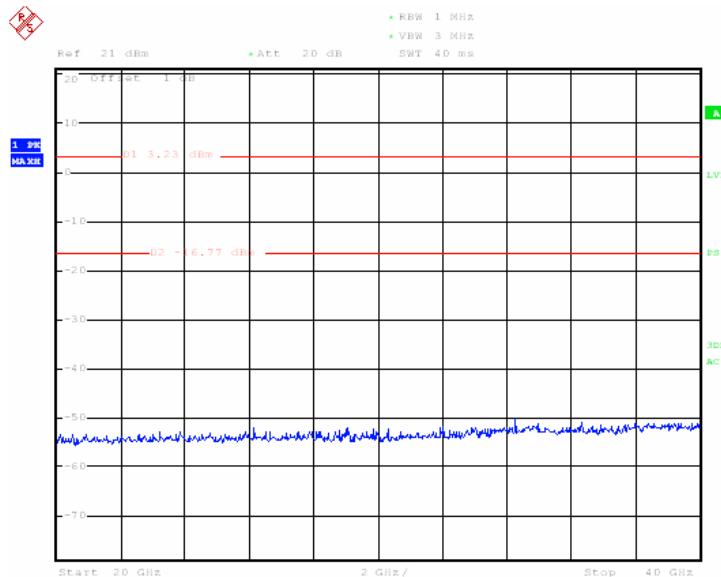
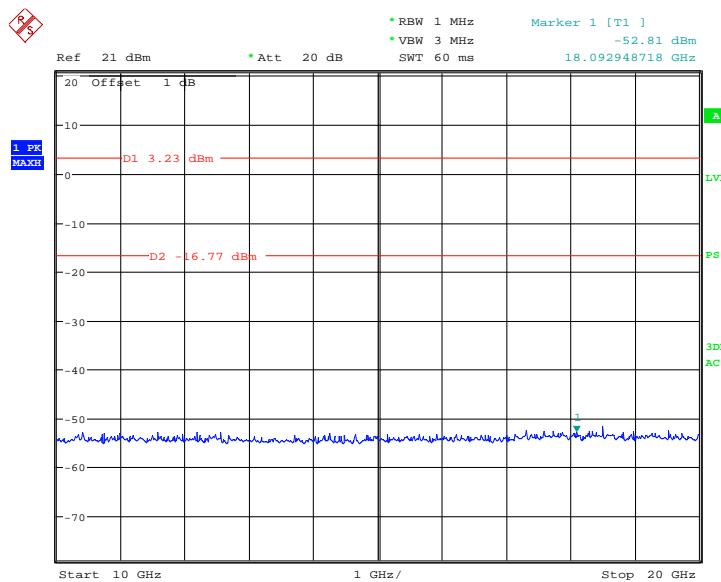
| Test channel | Low channel | Worse case | Antenna 4 |
|--------------|-------------|------------|-----------|
|--------------|-------------|------------|-----------|





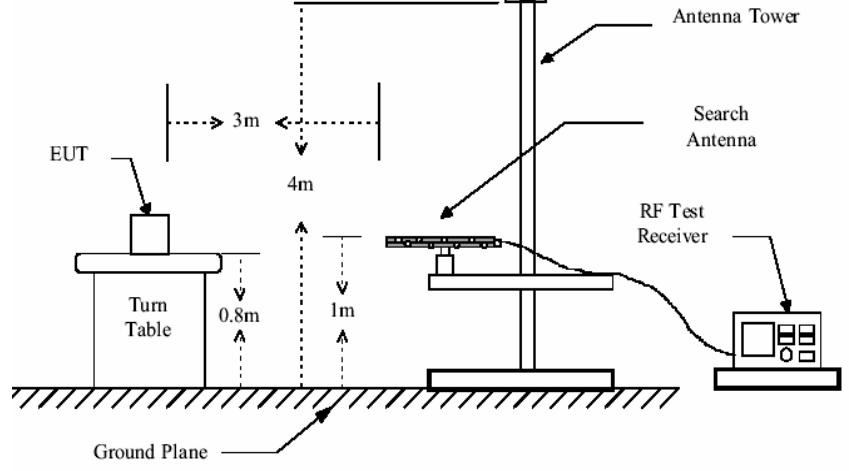
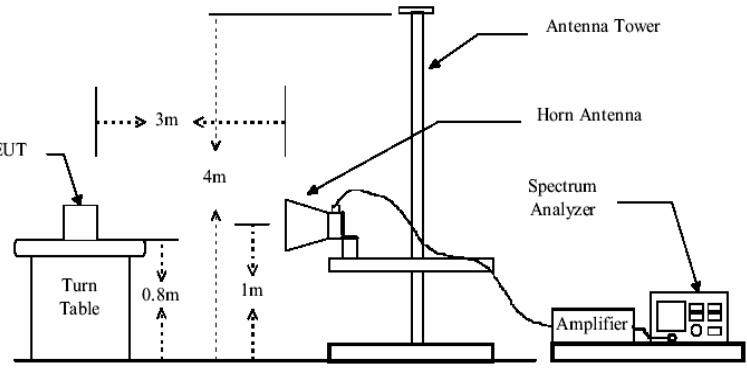
| Test channel | 5795MHz | Worse case | Antenna 4 |
|--------------|---------|------------|-----------|
|--------------|---------|------------|-----------|





## 5.8 Radiated Emission

| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205   |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
|-----------------------|--|------------------|--------|------------------|--|-----------|--------------------|--------|-------------|--------|------------------|--------------|--------|------------------|------------------|------------|------------------|-------------|------|------------------|------------|------|---------------|---------------|------------|
| Test Method:          | ANSI C63.4: 2003   |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
| Test Frequency Range: | 30MHz to 40GHz   |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
| Test site:            | Measurement Distance: 3m (Semi-Anechoic Chamber)   |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
| Receiver setup:       | <table border="1"> <thead> <tr> <th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr> <tr> <td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr> <tr> <td>AV</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr> </tbody> </table>   |                  |        |                  |  | Frequency | Detector           | RBW    | VBW         | Remark | 30MHz-1GHz       | Quasi-peak   | 100KHz | 300KHz           | Quasi-peak Value | Above 1GHz | Peak             | 1MHz        | 3MHz | Peak Value       | AV         | 1MHz | 10Hz          | Average Value |            |
| Frequency             | Detector   | RBW              | VBW    | Remark           |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
| 30MHz-1GHz            | Quasi-peak   | 100KHz           | 300KHz | Quasi-peak Value |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
| Above 1GHz            | Peak   | 1MHz             | 3MHz   | Peak Value       |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
|                       | AV   | 1MHz             | 10Hz   | Average Value    |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |
| Limit:                | <table border="1"> <thead> <tr> <th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr> <tr> <td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr> <tr> <td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr> <tr> <td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr> <tr> <td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr> <tr> <td>74.0</td><td>Peak Value</td></tr> </tbody> </table>  |                  |        |                  |  | 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 |
| 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 Procedure:       | <ul style="list-style-type: none"> <li>h. 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 5795MHzest radiation.</li> <li>i. The EUT was set to operate with MIMO modes,</li> <li>j. 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>k. 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>l. 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>m. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>n. 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 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.</li> </ul> |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |      |               |               |            |

|                   |   |
|-------------------|---|
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  |
| Test Instruments: | Refer to section 4.7 for details  |
| Test mode:        | Refer to section 4.3 for details  |
| Test results:     | Pass  |

**Note:**

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

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

### 5.8.1 Radiated emission below 1GHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 47.659          | 52.74             | 16.50                 | 0.75            | 31.98              | 38.01          | 40.00               | -1.99           | Vertical     |
| 50.232          | 52.15             | 16.35                 | 0.77            | 31.96              | 37.31          | 40.00               | -2.69           | Vertical     |
| 135.032         | 60.24             | 11.72                 | 1.47            | 31.92              | 41.51          | 43.50               | -1.99           | Vertical     |
| 195.137         | 51.65             | 13.57                 | 1.81            | 32.13              | 34.90          | 43.50               | -8.60           | Vertical     |
| 810.265         | 44.26             | 23.15                 | 4.49            | 31.30              | 40.60          | 46.00               | -5.40           | Vertical     |
| 945.440         | 43.70             | 23.92                 | 5.03            | 31.21              | 41.44          | 46.00               | -4.56           | Vertical     |
| 47.49           | 52.87             | 16.52                 | 0.74            | 31.98              | 38.15          | 40.00               | -1.85           | Horizontal   |
| 50.59           | 51.25             | 16.32                 | 0.78            | 31.96              | 36.39          | 40.00               | -3.61           | Horizontal   |
| 189.07          | 50.14             | 13.52                 | 1.78            | 32.11              | 33.33          | 43.50               | -10.17          | Horizontal   |
| 270.38          | 50.07             | 15.42                 | 2.22            | 32.17              | 35.54          | 46.00               | -10.46          | Horizontal   |
| 406.09          | 51.63             | 17.22                 | 2.88            | 31.87              | 39.86          | 46.00               | -6.14           | Horizontal   |
| 675.21          | 45.27             | 21.46                 | 4.00            | 31.16              | 39.57          | 46.00               | -6.43           | Horizontal   |

## 5.8.2 Transmitter emission above 1GHz

| Test channel: | 5755MHz | Remark: | Peak |
|---------------|---------|---------|------|
|---------------|---------|---------|------|

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11510           | 37.22             | 39.85                 | 10.16           | 38.15              | 49.08          | 74.00               | -24.92          | Horizontal   |
| 17265           | 31.83             | 40.51                 | 14.60           | 36.15              | 50.79          | 74.00               | -23.21          | Horizontal   |
| 23020           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 28775           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 34530           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 40285           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 11510           | 36.02             | 39.85                 | 10.16           | 38.15              | 47.88          | 74.00               | -26.12          | Vertical     |
| 17265           | 30.26             | 40.51                 | 14.60           | 36.15              | 49.22          | 74.00               | -24.78          | Vertical     |
| 23020           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |
| 28775           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |
| 34530           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |
| 40285           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |

| Test channel: | 5755MHz | Remark: | Average |
|---------------|---------|---------|---------|
|---------------|---------|---------|---------|

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11510           | 24.47             | 39.85                 | 10.16           | 38.15              | 36.33          | 54.00               | -17.67          | Horizontal   |
| 17265           | 19.67             | 40.51                 | 14.60           | 36.15              | 38.63          | 54.00               | -15.37          | Horizontal   |
| 23020           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 28775           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 34530           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 40285           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 11510           | 23.27             | 39.85                 | 10.16           | 38.15              | 35.13          | 54.00               | -18.87          | Vertical     |
| 17265           | 18.10             | 40.51                 | 14.60           | 36.15              | 37.06          | 54.00               | -16.94          | Vertical     |
| 23020           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |
| 28775           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |
| 34530           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |
| 40285           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |

## Remark:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “\*”, means this data is the too weak instrument of signal is unable to test.
5. Level = Reading Level + Antenna factor+ Cable loss – Preamp Factor
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

|               |         |         |      |
|---------------|---------|---------|------|
| Test channel: | 5795MHz | Remark: | Peak |
|---------------|---------|---------|------|

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11590           | 37.41             | 39.71                 | 10.20           | 38.10              | 49.22          | 74.00               | -24.78          | Horizontal   |
| 17385           | 31.76             | 40.29                 | 14.65           | 36.07              | 50.63          | 74.00               | -23.37          | Horizontal   |
| 23180           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 28975           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 34770           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 40565           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Horizontal   |
| 11590           | 36.39             | 39.71                 | 10.20           | 38.10              | 48.20          | 74.00               | -25.80          | Vertical     |
| 17385           | 30.43             | 40.29                 | 14.65           | 36.07              | 49.30          | 74.00               | -24.70          | Vertical     |
| 23180           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |
| 28975           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |
| 34770           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |
| 40565           | *                 | *                     | *               | *                  | *              | 74.00               | *               | Vertical     |

|               |         |         |         |
|---------------|---------|---------|---------|
| Test channel: | 5795MHz | Remark: | Average |
|---------------|---------|---------|---------|

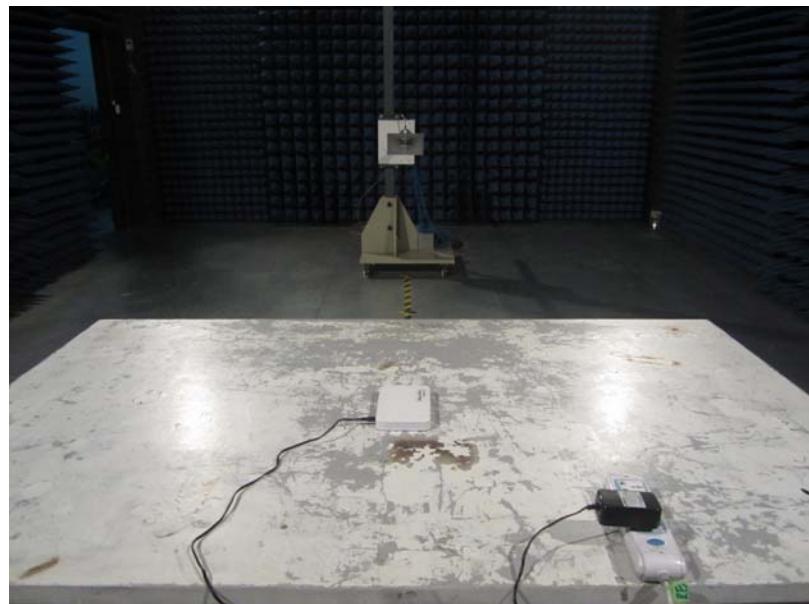
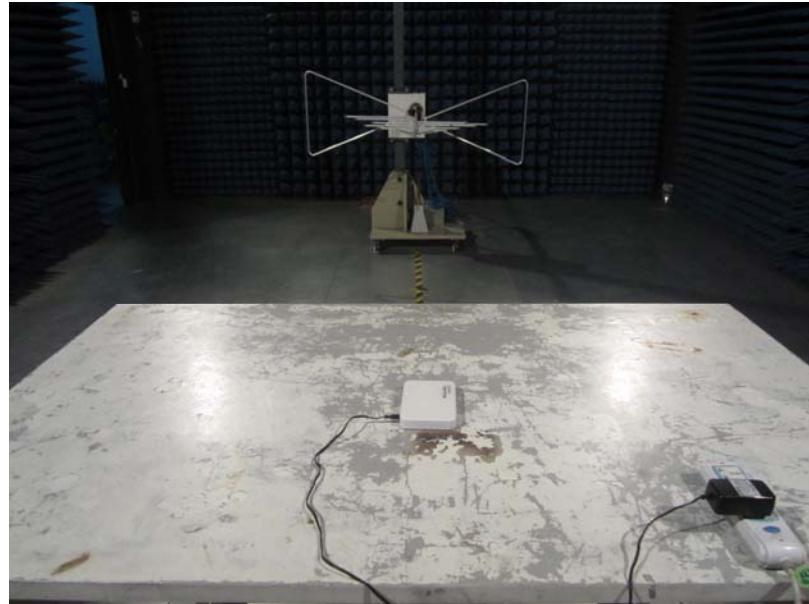
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 11590           | 25.00             | 39.71                 | 10.20           | 38.10              | 36.81          | 54.00               | -17.19          | Horizontal   |
| 17385           | 20.72             | 40.29                 | 14.65           | 36.07              | 39.59          | 54.00               | -14.41          | Horizontal   |
| 23180           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 28975           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 34770           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 40565           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Horizontal   |
| 11590           | 23.98             | 39.71                 | 10.20           | 38.10              | 35.79          | 54.00               | -18.21          | Vertical     |
| 17385           | 19.39             | 40.29                 | 14.65           | 36.07              | 38.26          | 54.00               | -15.74          | Vertical     |
| 23180           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |
| 28975           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |
| 34770           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |
| 40565           | *                 | *                     | *               | *                  | *              | 54.00               | *               | Vertical     |

## Remark:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “\*”, means this data is the too weak instrument of signal is unable to test.
5. Level = Reading Level + Antenna factor+ Cable loss – Preamp Factor
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 6 Test Setup Photo

Radiated Emission



## Conducted Emissions

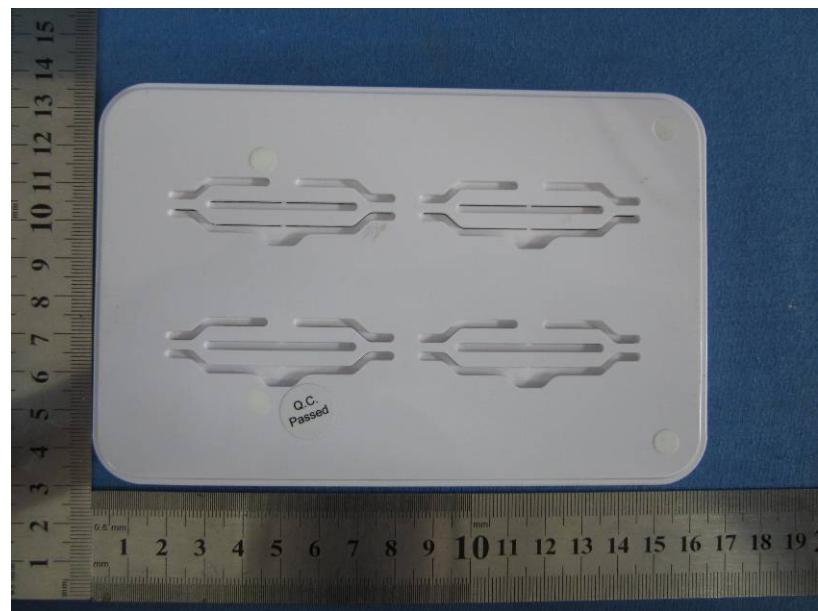


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## 7 EUT Constructional Details



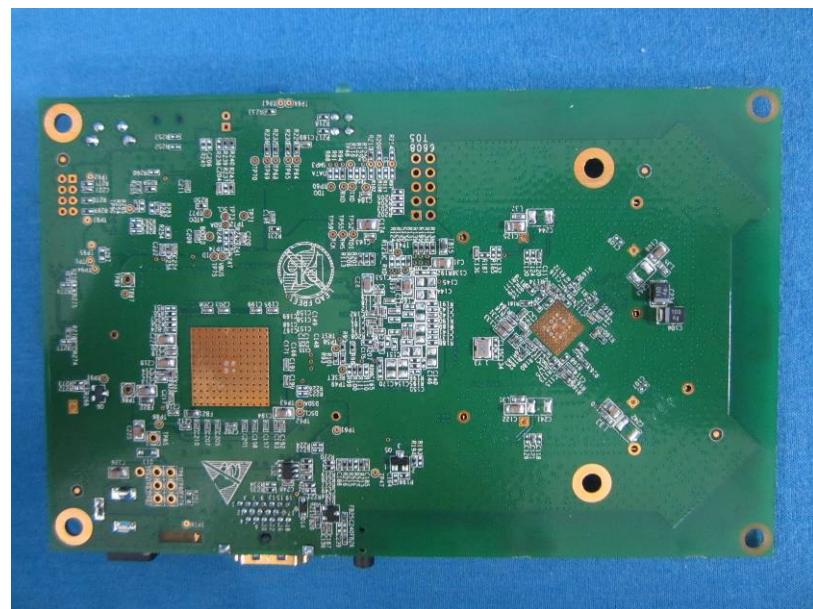
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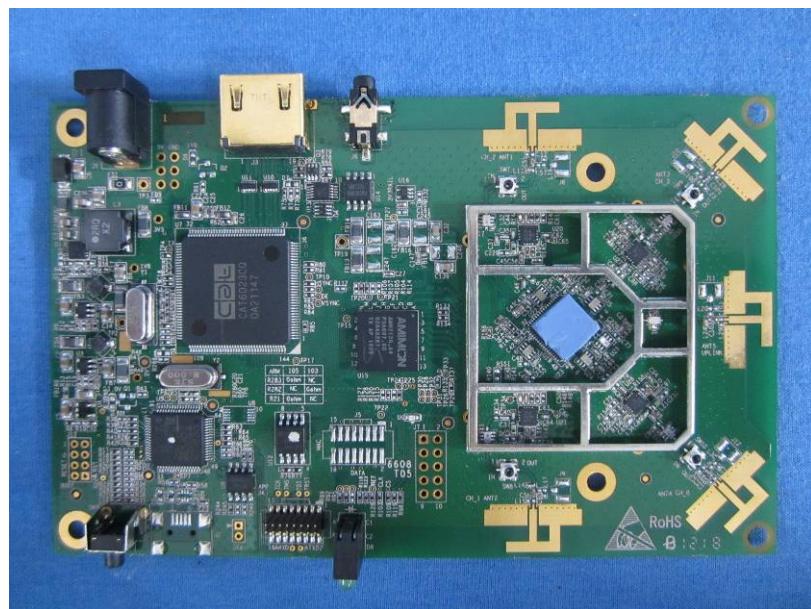
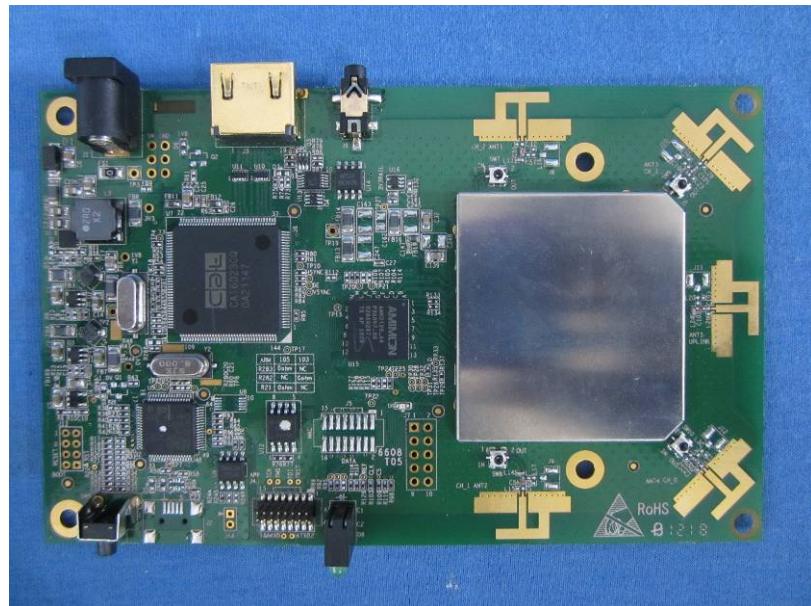
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