



# Partial FCC Test Report

**APPLICANT** : Motion Computing Incorporated  
**EQUIPMENT** : J3500  
**BRAND NAME** : Motion Computing Incorporated  
**MODEL NAME** : T008  
**FCC ID** : Q3QIHWM633ANH  
**STANDARD** : FCC Part 15 Subpart E  
**CLASSIFICATION** : Unlicensed National Information Infrastructure (UNII)

This is a partial report which is only valid combined with the WLAN module (Brand name: Intel / Model name: 633ANHMW) report. The product was integrated the WLAN Module (Brand Name: Intel / Model Name: 633ANHMW, FCC ID: PD9633ANH) during the test.

The product was received on May 12, 2010 and completely tested on May 24, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Roy Wu / Manager



**SPORTON INTERNATIONAL INC.**

No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.407(b)	A9.3	Frequency Band Edges	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	-
3.2	15.207	Gen 7.2.2	AC Conducted Emission	15.207(a)	Pass	Under limit 6.8 dB at 0.174 MHz
3.3	15.407(b)	A9.3	Transmitter Radiated Emission	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 3.04 dB at 5150 MHz
3.5	15.203 & 15.407(a)	A9.2	Antenna Requirement	N/A	Pass	-



# 1 General Description

## 1.1 Applicant

Motion Computing Incorporated

8601 Ranch Road 2222; Bldg.2; Austin, Texas 78730 USA

## 1.2 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	J3500
Brand Name	Motion Computing Incorporated
Model Name	T008
FCC ID	Q3QIHWM633ANH
Tx/Rx Frequency Range	5150 MHz ~ 5250 MHz 5250 MHz ~ 5350 MHz 5470 MHz ~ 5725 MHz
Maximum Output Power to Antenna	802.11a : 16.57 dBm 802.11n (5GHz) : 16.55 dBm (BW 20MHz) 802.11n (5GHz) : 16.53 dBm (BW 40MHz)
Antenna Type	PIFA Antenna 5150 MHz ~ 5250 MHz : gain 1.78 dBi 5250 MHz ~ 5350 MHz : gain 0.77 dBi 5470 MHz ~ 5725 MHz : gain 1.77 dBi
HW Version	LA-6111P
SW Version	X.17
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
EUT Stage	Identical Prototype

**Remark:**

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of Unlicensed National Information Infrastructure (UNII).
3. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.3 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL INC.		
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		<b>FCC/IC Registration No.</b>
	CO05-HY	03CH05-HY	TW1022/4086B-1

### 1.4 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC Public Notice DA 02-2138, (Measurement Guidelines of UNII)
- ♦ ANSI C63.4-2003
- ♦ IC RSS-210 Issued 7

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

### 1.5 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
4.	Earphone	Ergotech	ET-E200	FCC DoC	Unshielded, 1.8 m	N/A
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

## 2 Test Configuration of Equipment Under Test

### 2.1 Carrier Frequency Channel

802.11a Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	40	5200	44	5220	48	5240
52	5260	56	5280	60	5300	64	5320
100	5500	104	5520	108	5540	112	5560
116	5580	120	5600	124	5620	128	5640
132	5660	136	5680	140	5700	-	-

802.11n (BW 20MHz) Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	40	5200	44	5220	48	5240
52	5260	56	5280	60	5300	64	5320
100	5500	104	5520	108	5540	112	5560
116	5580	120	5600	124	5620	128	5640
132	5660	136	5680	140	5700	-	-

802.11n (BW 40MHz) Carrier Frequency Channel							
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
38	5190	46	5230	54	5270	62	5310
102	5510	110	5550	118	5590	126	5630
134	5670	-	-	-	-	-	-

## 2.2 RF Power

Preliminary RF power output tests were performed in different data rate and recorded the in the following table:

Band	802.11a						
Data Rate	6M						
Channel	036	048	052	064	100	120	140
Frequency (MHz)	5180	5240	5260	5320	5500	5600	5700
Power (Port A)	16.42	16.45	16.42	16.33	16.45	16.41	16.51
Power (Port B)	16.27	16.50	16.39	16.38	16.32	16.42	16.32
Power (Port C)	16.42	16.57	16.45	16.35	16.37	16.35	16.43

Band	802.11n (BW 20MHz)						
Data Rate	HT0						
Channel	036	048	052	064	100	120	140
Frequency (MHz)	5180	5240	5260	5320	5500	5600	5700
Power (Port A)	16.55	16.25	16.45	16.54	16.45	16.43	16.55
Power (Port B)	16.51	16.39	16.37	16.34	16.45	16.33	16.38
Power (Port C)	16.45	16.45	16.35	16.38	16.5	16.45	16.51
Data Rate	HT8						
Power (Port A+B)	16.01	16.02	16.05	16.05	16.03	16.02	16.04
Power (Port A+C)	16.20	16.05	16.02	16.04	16.03	16.02	16.03
Power (Port B+C)	16.02	16.02	16.03	16.03	16.02	16.04	16.05
Data Rate	HT16						
Power (Port A+B+C)	16.28	16.31	16.31	16.31	16.29	16.18	16.29

Band	802.11n (BW 40MHz)						
Data Rate	HT0						
Channel	38	46	54	62	102	118	134
Frequency (MHz)	5190	5230	5270	5310	5510	5590	5670
Power (Port A)	16.45	16.34	16.51	16.35	16.35	16.51	16.45
Power (Port B)	16.53	16.52	16.43	16.45	16.48	16.52	16.54
Power (Port C)	16.44	16.46	16.46	16.49	16.61	16.53	16.41
Data Rate	HT8						
Power (Port A+B)	16.04	16.02	16.05	16.01	16.06	16.03	16.10
Power (Port A+C)	16.04	16.03	16.03	16.05	16.04	16.03	16.01
Power (Port B+C)	16.05	16.04	16.04	16.01	16.06	16.07	16.05
Data Rate	HT16						
Power (Port A+B+C)	16.28	16.33	16.38	16.44	16.36	16.34	16.25

**Remark:** The EUT is programmed to transmit signals continuously for all testing.





### 2.3 Test Mode

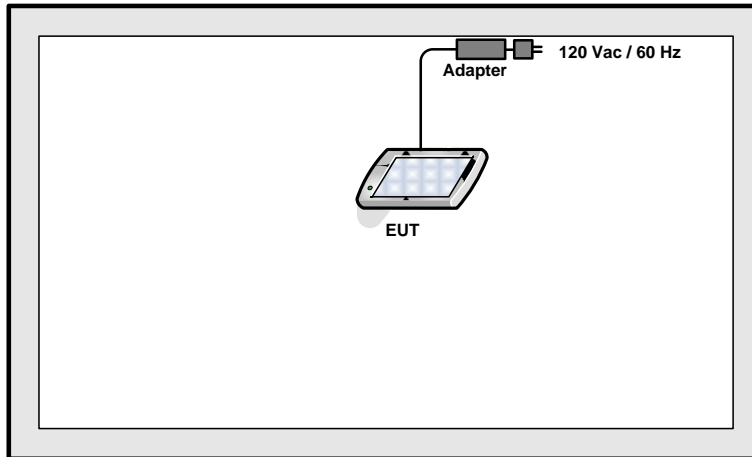
The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests, X, Y, Z in three orthogonal panels, were conducted to determine the final configuration from all possible combinations, tablet modes.

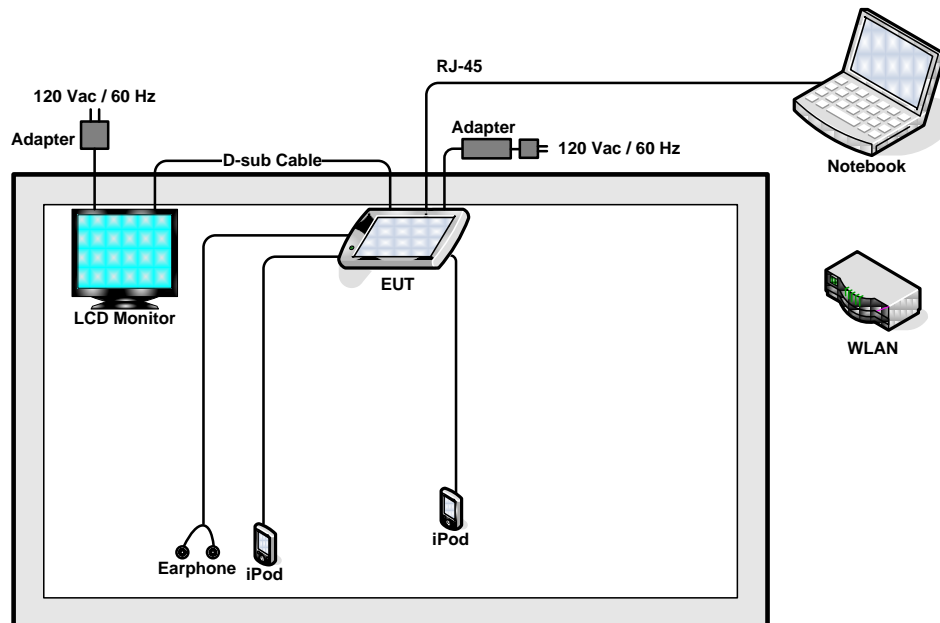
Test Cases	
Test Item	802.11a (Modulation : OFDM)
Radiated TCs	<ul style="list-style-type: none"> <li>■ Mode 1: 802.11a_CH36_5180 MHz</li> <li>■ Mode 2: 802.11a_CH44_5220 MHz</li> <li>■ Mode 3: 802.11a_CH48_5240 MHz</li> <li>■ Mode 4: 802.11a_CH52_5260 MHz</li> <li>■ Mode 5: 802.11a_CH60_5300 MHz</li> <li>■ Mode 6: 802.11a_CH64_5320 MHz</li> <li>■ Mode 7: 802.11a_CH100_5500 MHz</li> <li>■ Mode 8: 802.11a_CH120_5600 MHz</li> <li>■ Mode 9: 802.11a_CH140_5700 MHz</li> <li>■ Mode 10: 802.11n_CH36_5180 MHz (BW 20M)</li> <li>■ Mode 11: 802.11n_CH44_5220 MHz (BW 20M)</li> <li>■ Mode 12: 802.11n_CH48_5240 MHz (BW 20M)</li> <li>■ Mode 13: 802.11n_CH52_5260 MHz (BW 20M)</li> <li>■ Mode 14: 802.11n_CH60_5300 MHz (BW 20M)</li> <li>■ Mode 15: 802.11n_CH64_5320 MHz (BW 20M)</li> <li>■ Mode 16: 802.11n_CH100_5500 MHz (BW 20M)</li> <li>■ Mode 17: 802.11n_CH120_5600 MHz (BW 20M)</li> <li>■ Mode 18: 802.11n_CH140_5700 MHz (BW 20M)</li> <li>■ Mode 19: 802.11n_CH38_5190 MHz (BW 40M)</li> <li>■ Mode 20: 802.11n_CH46_5230 MHz (BW 40M)</li> <li>■ Mode 21: 802.11n_CH54_5270 MHz (BW 40M)</li> <li>■ Mode 22: 802.11n_CH62_5310 MHz (BW 40M)</li> <li>■ Mode 23: 802.11n_CH102_5510 MHz (BW 40M)</li> <li>■ Mode 24: 802.11n_CH118_5590 MHz (BW 40M)</li> <li>■ Mode 25: 802.11n_CH134_5670 MHz (BW 40M)</li> </ul>
AC Conducted Emission	WLAN Link + TC + Adapter
<b>Remark:</b> <ol style="list-style-type: none"> <li>1. The power setting was based on the WLAN Intel/633ANHMW module report.</li> <li>2. TC stands for Test Configuration, and consists of iPod, monitor, earphone, and RJ-45.</li> <li>3. Mode 1~18 of radiated emission only verify bandedge.</li> <li>4. Only the radiated emission and AC conducted emission tests of the WLAN module on this Notebook Computer was performed in this report and the conducted test results can be referred to the integrated WLAN module (Brand Name: Intel / Model Name: 633ANHMW, FCC ID: PD9633ANH) report.</li> </ol>	

## 2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<EUT with TC Mode>



## 2.5 RF Utility

The programmed RF Utility “CRTU” is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.



## 3 Test Result

### 3.1 Band Edges Measurement

#### 3.1.1 Limit of Band Edges

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. Devices operating in the 5.25–5.35 GHz band that generate emissions in the 5.15–5.25 GHz band must meet all applicable technical requirements for operation in the 5.15–5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of –27 dBm/MHz in the 5.15–5.25 GHz band. For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) The provisions of Section 15.205 Restricted bands of operation of this part apply to intentional radiators operating under this section.

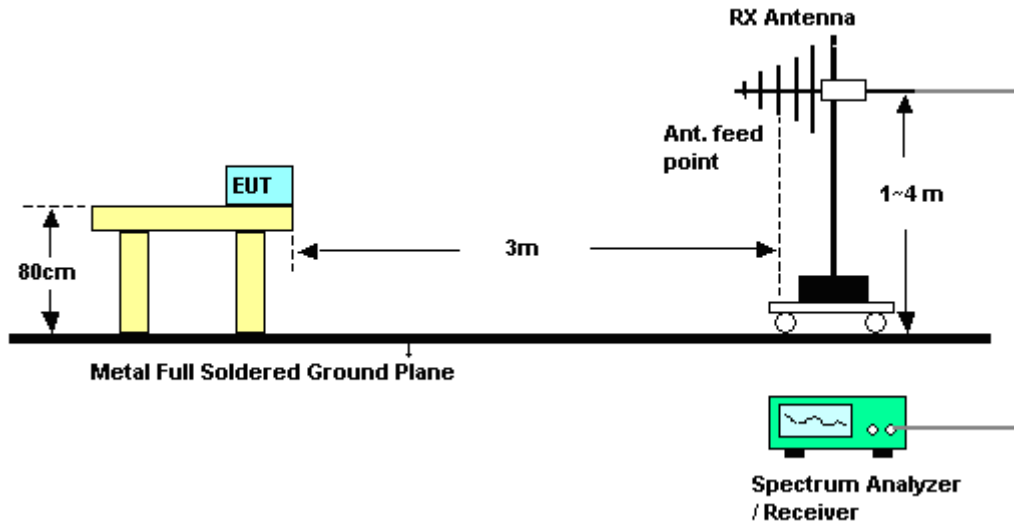
#### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.1.3 Test Procedures

1. Set both RBW and VBW of spectrum analyzer to 1MHz with convenient frequency span including 1MHz bandwidth from band edge.
2. The band edges was measured and recorded.

### 3.1.4 Test Setup





3.1.5 Test Result of Radiated Band Edges

Test Mode :	Mode 1	Temperature :	23~24°C
Test Band :	802.11a	Relative Humidity :	49~53%
Test Channel :	36	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	58.86	-15.14	74.00	61.01	34.02	44.48	8.31	122	29	Peak
5150	41.94	-12.06	54.00	44.09	34.02	44.48	8.31	122	29	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	60.56	-13.44	74.00	62.71	34.02	44.48	8.31	100	305	Peak
5150	44.4	-9.6	54.00	46.55	34.02	44.48	8.31	100	305	Average

Test Mode :	Mode 6	Temperature :	23~24°C
Test Band :	802.11a	Relative Humidity :	49~53%
Test Channel :	64	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5350	58.46	-15.54	74.00	60.09	34.18	44.31	8.5	101	343	Peak
5350	44.62	-9.38	54.00	46.25	34.18	44.31	8.5	101	343	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5350	57.33	-16.67	74.00	58.96	34.18	44.31	8.5	100	292	Peak
5350	44.35	-9.65	54.00	45.98	34.18	44.31	8.5	100	292	Average



Test Mode :	Mode 7	Temperature :	23~24°C
Test Band :	802.11a	Relative Humidity :	49~53%
Test Channel :	100	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	58.62	-29.68	88.3	59.95	34.27	44.22	8.62	101	22	Peak
5470	44.59	-23.71	68.3	45.92	34.27	44.22	8.62	101	22	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	57.75	-30.55	88.3	59.08	34.27	44.22	8.62	109	291	Peak
5470	43.93	-24.37	68.3	45.26	34.27	44.22	8.62	109	291	Average

Test Mode :	Mode 9	Temperature :	23~24°C
Test Band :	802.11a	Relative Humidity :	49~53%
Test Channel :	140	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	67.94	-20.36	88.3	69.24	34.21	44.33	8.82	100	30	Peak
5725	50.96	-17.34	68.3	52.26	34.21	44.33	8.82	100	30	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	68.21	-20.09	88.3	69.51	34.21	44.33	8.82	112	250	Peak
5725	51.38	-16.92	68.3	52.68	34.21	44.33	8.82	112	250	Average



Test Mode :	Mode 10	Temperature :	23~24°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~53%
Test Channel :	36	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.37	-18.63	74	57.52	34.02	44.48	8.31	100	32	Peak
5150	43.79	-10.21	54	45.94	34.02	44.48	8.31	100	32	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	57.97	-16.03	74	60.12	34.02	44.48	8.31	100	222	Peak
5150	44.5	-9.5	54	46.65	34.02	44.48	8.31	100	222	Average

Test Mode :	Mode 15	Temperature :	23~24°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~53%
Test Channel :	64	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5350	61.78	-12.22	74	63.41	34.18	44.31	8.5	178	359	Peak
5350	44.13	-9.87	54	45.76	34.18	44.31	8.5	178	359	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5350	59.91	-14.09	74	61.54	34.18	44.31	8.5	157	290	Peak
5350	43.63	-10.37	54	45.26	34.18	44.31	8.5	157	290	Average



Test Mode :	Mode 16	Temperature :	23~24°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~53%
Test Channel :	100	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	58.59	-29.71	88.3	59.92	34.27	44.22	8.62	182	360	Peak
5470	43.53	-24.77	68.3	44.86	34.27	44.22	8.62	182	360	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	61.04	-27.26	88.3	62.37	34.27	44.22	8.62	142	189	Peak
5470	44.88	-23.42	68.3	46.21	34.27	44.22	8.62	142	189	Average

Test Mode :	Mode 18	Temperature :	23~24°C
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	49~53%
Test Channel :	140	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	65.73	-22.57	88.3	67.03	34.21	44.33	8.82	168	25	Peak
5725	47.72	-20.58	68.3	49.02	34.21	44.33	8.82	168	25	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	70.43	-17.87	88.3	71.73	34.21	44.33	8.82	100	218	Peak
5725	51.94	-16.36	68.3	53.24	34.21	44.33	8.82	100	218	Average





Test Mode :	Mode 19	Temperature :	23~24°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~53%
Test Channel :	38	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	64.55	-9.45	74	66.7	34.02	44.48	8.31	100	36	Peak
5150	50.96	-3.04	54	53.11	34.02	44.48	8.31	100	36	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	63.17	-10.83	74	65.32	34.02	44.48	8.31	100	300	Peak
5150	48.78	-5.22	54	50.93	34.02	44.48	8.31	100	300	Average

Test Mode :	Mode 22	Temperature :	23~24°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~53%
Test Channel :	62	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5350	64.86	-9.14	74	66.49	34.18	44.31	8.5	100	46	Peak
5350	50.44	-3.56	54	52.07	34.18	44.31	8.5	100	46	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5350	62.76	-11.24	74	64.39	34.18	44.31	8.5	100	309	Peak
5350	48.63	-5.37	54	50.26	34.18	44.31	8.5	100	309	Average



Test Mode :	Mode 23	Temperature :	23~24°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~53%
Test Channel :	102	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	67.61	-20.69	88.3	68.94	34.27	44.22	8.62	100	335	Peak
5470	53.7	-14.6	68.3	55.03	34.27	44.22	8.62	100	335	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	66.26	-22.04	88.3	67.59	34.27	44.22	8.62	123	293	Peak
5470	51.29	-17.01	68.3	52.62	34.27	44.22	8.62	123	293	Average

Test Mode :	Mode 25	Temperature :	23~24°C
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	49~53%
Test Channel :	134	Test Engineer :	Cona Huang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	62.79	-25.51	88.3	64.09	34.21	44.33	8.82	140	245	Peak
5725	49.07	-19.23	68.3	50.37	34.21	44.33	8.82	140	245	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5725	52.56	-15.74	68.3	53.86	34.21	44.33	8.82	150	325	Peak
5725	37.02	-51.28	88.3	38.32	34.21	44.33	8.82	150	325	Average

### 3.2 AC Conducted Emission Measurement

#### 3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted 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.

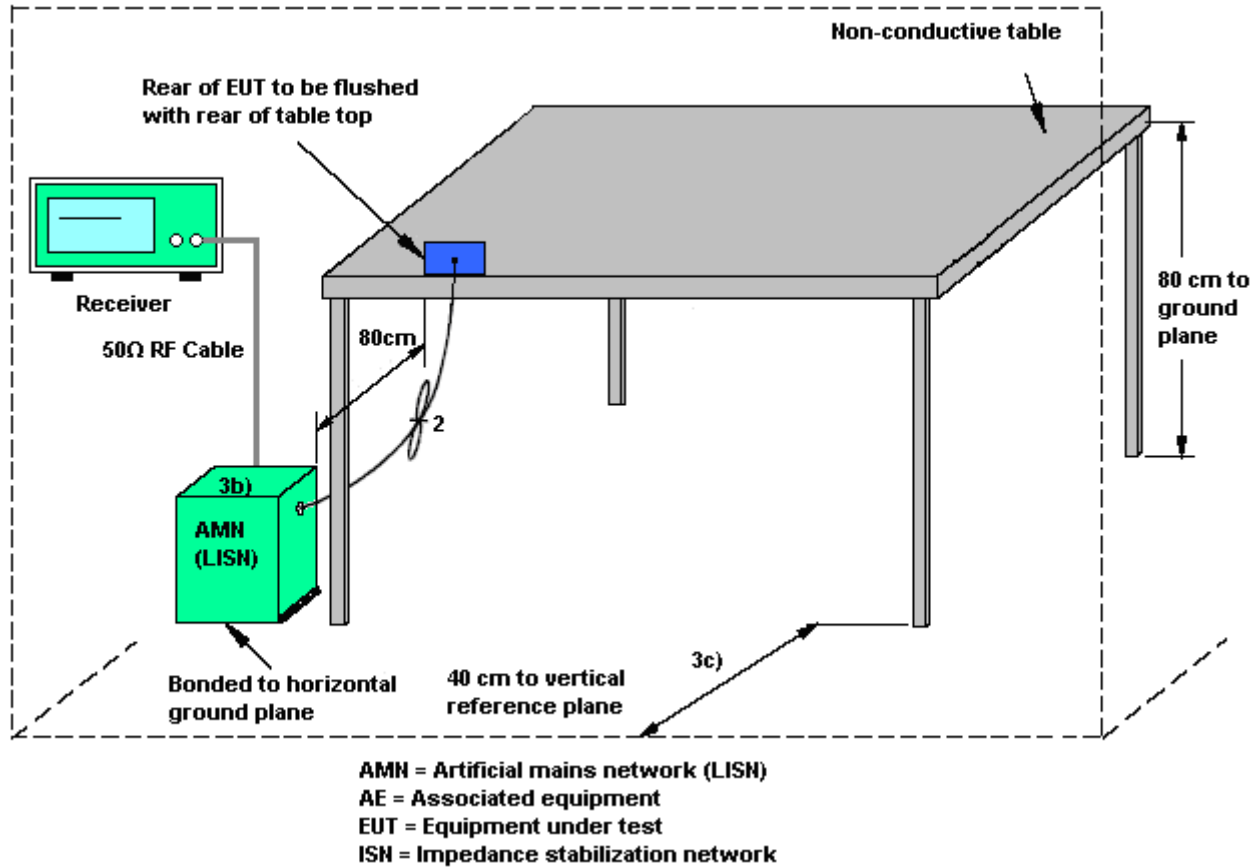
#### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2.3 Test Procedures

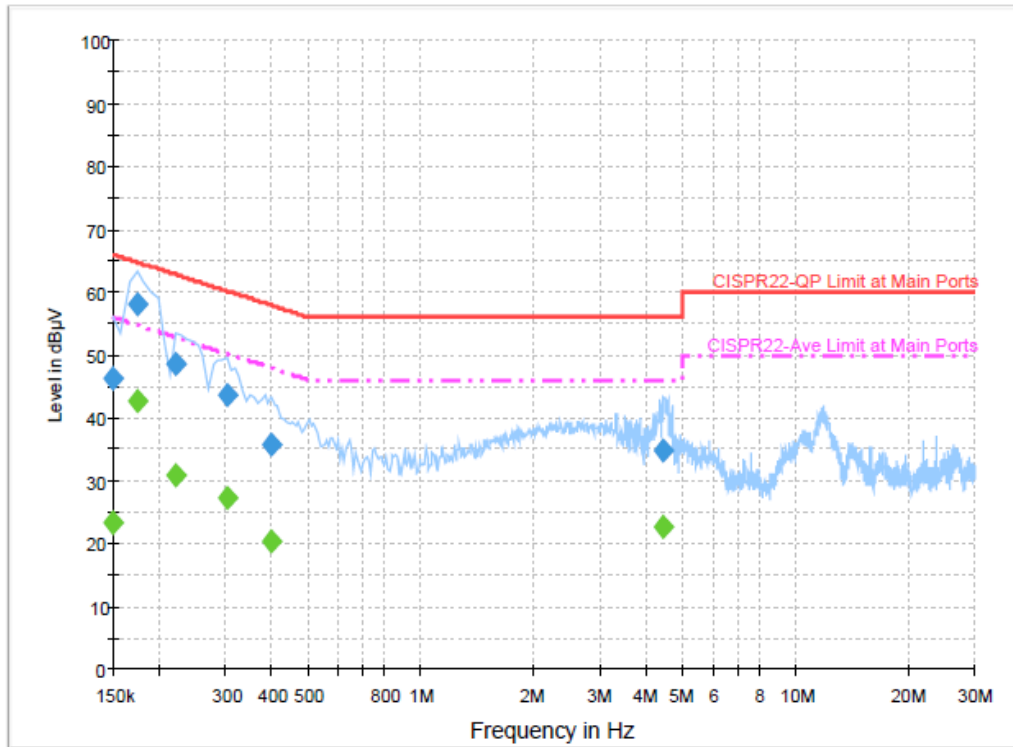
1. Please follow the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.2.4 Test Setup



### 3.2.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Novic Jiang	Relative Humidity :	34~36%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Link + TC + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



#### Final Result 1

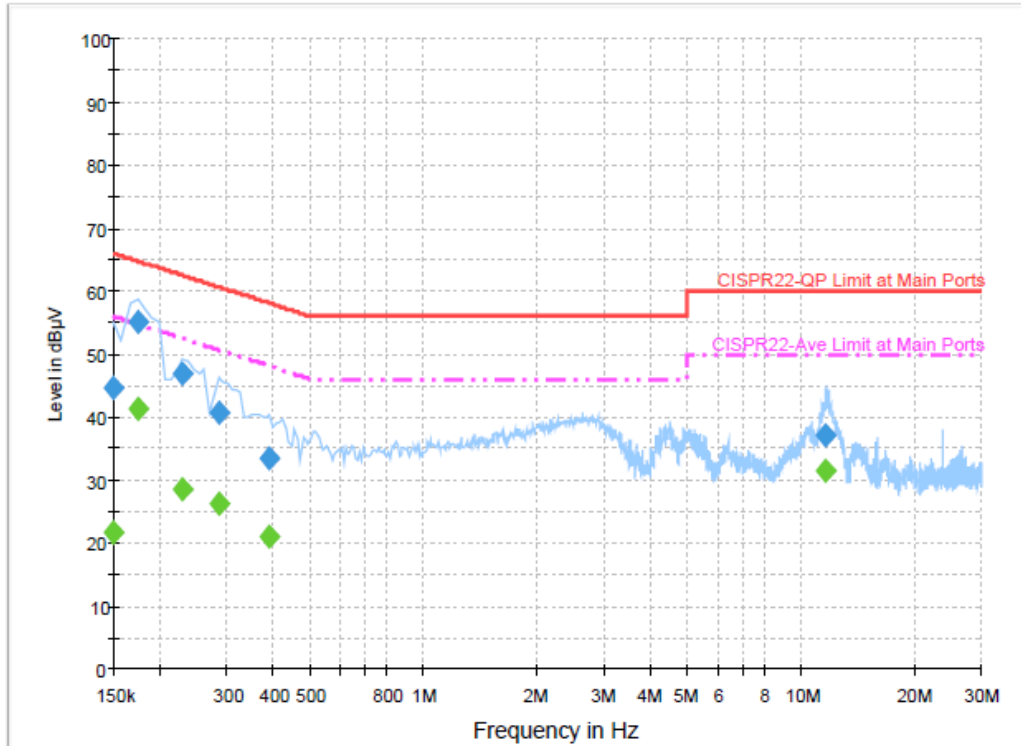
Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	46.1	Off	L1	19.5	19.9	66.0
0.174000	58.0	Off	L1	19.5	6.8	64.8
0.222000	48.6	Off	L1	19.6	14.1	62.7
0.302000	43.8	Off	L1	19.5	16.4	60.2
0.398000	35.9	Off	L1	19.5	22.0	57.9
4.398000	34.9	Off	L1	19.5	21.1	56.0

#### Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.4	Off	L1	19.5	32.6	56.0
0.174000	42.5	Off	L1	19.5	12.3	54.8
0.222000	30.8	Off	L1	19.6	11.9	52.7
0.302000	27.3	Off	L1	19.5	22.9	50.2
0.398000	20.4	Off	L1	19.5	27.5	47.9
4.398000	22.7	Off	L1	19.5	23.3	46.0



Test Mode :	Mode 1	Temperature :	20~22°C
Test Engineer :	Novic Jiang	Relative Humidity :	34~36%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Link + TC + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	44.6	Off	N	19.5	21.4	66.0
0.174000	55.1	Off	N	19.5	9.7	64.8
0.230000	46.9	Off	N	19.5	15.5	62.4
0.286000	40.7	Off	N	19.4	19.9	60.6
0.390000	33.5	Off	N	19.4	24.6	58.1
11.566000	37.2	Off	N	19.6	22.8	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	21.7	Off	N	19.5	34.3	56.0
0.174000	41.4	Off	N	19.5	13.4	54.8
0.230000	28.6	Off	N	19.5	23.8	52.4
0.286000	26.2	Off	N	19.4	24.4	50.6
0.390000	21.1	Off	N	19.4	27.0	48.1
11.566000	31.5	Off	N	19.6	18.5	50.0

### 3.3 Radiated Emission Measurement

#### 3.3.1 Limit of Radiated Emission

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. Devices operating in the 5.25–5.35 GHz band that generate emissions in the 5.15–5.25 GHz band must meet all applicable technical requirements for operation in the 5.15–5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of –27 dBm/MHz in the 5.15–5.25 GHz band.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) The provisions of Section 15.205 Restricted bands of operation of this part apply to intentional radiators operating under this section.

#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.



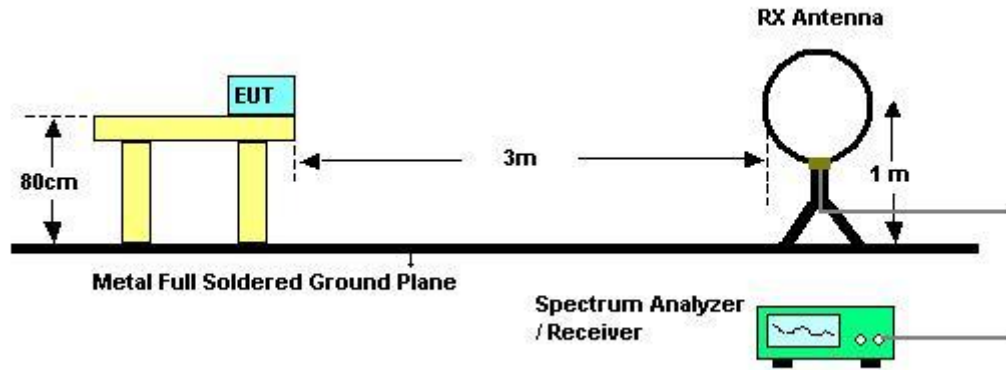
### **3.3.3 Test Procedures**

1. The testing follows the guidelines in FCC Public Notice DA 02-2138, (Measurement Guidelines of UNII)
2. The EUT was placed on a rotatable table top 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest radiation.
5. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
6. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
7. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
8. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
9. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

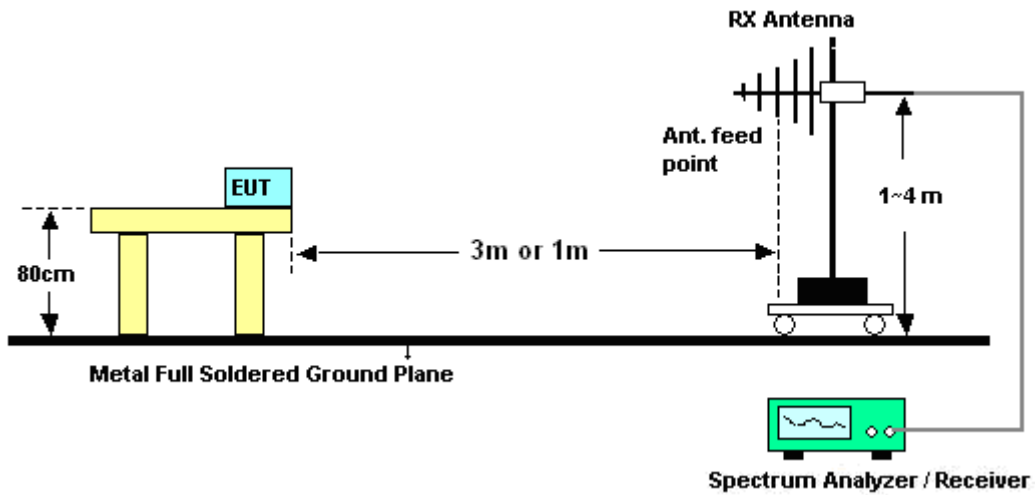


### 3.3.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz





3.3.5 Test Results of Radiated Emissions (9kHz ~ 30MHz)

Temperature	23~24°C	Humidity	49~53%
Test Engineer	Cona Huang		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

**Note:**

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



3.3.6 Test Result of Radiated Emission (30MHz ~ 25GHz)

Test Mode :	Mode 1	Temperature :	23~24°C
Test Channel :	36	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	58.86	-15.14	74	61.01	34.02	44.48	8.31	122	29	Peak
5150	41.94	-12.06	54	44.09	34.02	44.48	8.31	122	29	Average
5180	100.94	-	-	103.01	34.05	44.45	8.33	122	29	Peak
5180	90.95	-	-	93.02	34.05	44.45	8.33	122	29	Average
5350	30.51	-23.49	54	32.14	34.18	44.31	8.5	122	29	Average
5350	42.52	-31.48	74	44.15	34.18	44.31	8.5	122	29	Peak



Test Mode :	Mode 1	Temperature :	23~24°C
Test Channel :	36	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	60.56	-13.44	74	62.71	34.02	44.48	8.31	100	305	Peak
5150	44.4	-9.6	54	46.55	34.02	44.48	8.31	100	305	Average
5180	102.67	-	-	104.74	34.05	44.45	8.33	100	305	Peak
5180	92.54	-	-	94.61	34.05	44.45	8.33	100	305	Average
5350	30.86	-23.14	54	32.49	34.18	44.31	8.5	100	305	Average
5350	41.85	-32.15	74	43.48	34.18	44.31	8.5	100	305	Peak



<b>Test Mode :</b>	Mode 2	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5220 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	53.86	-20.14	74	56.14	33.98	44.52	8.26	100	42	Peak
5150	43.01	-10.99	54	45.16	34.02	44.48	8.31	100	42	Average
5220	104.87	-	-	106.84	34.07	44.42	8.38	100	42	Peak
5220	95.47	-	-	97.44	34.07	44.42	8.38	100	42	Average
5350	55.13	-18.87	74	56.76	34.18	44.31	8.5	100	42	Peak
5350	43.02	-10.98	54	44.65	34.18	44.31	8.5	100	42	Average



<b>Test Mode :</b>	Mode 2	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5220 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.92	-19.08	74	57.07	34.02	44.48	8.31	100	305	Peak
5150	43.04	-10.96	54	45.19	34.02	44.48	8.31	100	305	Average
5220	106.31	-	-	108.28	34.07	44.42	8.38	100	305	Peak
5220	96.65	-	-	98.62	34.07	44.42	8.38	100	305	Average
5350	42.99	-11.01	54	44.62	34.18	44.31	8.5	100	305	Average
5350	53.82	-20.18	74	55.45	34.18	44.31	8.5	100	305	Peak



Test Mode :	Mode 3	Temperature :	23~24°C
Test Channel :	48	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.34	-19.66	74	56.49	34.02	44.48	8.31	104	353	Peak
5150	43.01	-10.99	54	45.16	34.02	44.48	8.31	104	353	Average
5240	107.88	-	-	109.82	34.09	44.41	8.38	104	353	Peak
5240	98.3	-	-	100.22	34.09	44.41	8.4	104	353	Average
5350	54.16	-19.84	74	55.79	34.18	44.31	8.5	104	353	Peak
5350	43.09	-10.91	54	44.72	34.18	44.31	8.5	104	353	Average



Test Mode :	Mode 3	Temperature :	23~24°C
Test Channel :	48	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5240 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.16	-18.84	74	57.31	34.02	44.48	8.31	100	304	Peak
5150	43.04	-10.96	54	45.19	34.02	44.48	8.31	100	304	Average
5240	106.5	-	-	108.44	34.09	44.41	8.38	100	304	Peak
5240	96.85	-	-	98.77	34.09	44.41	8.4	100	304	Average
5350	54.42	-19.58	74	56.05	34.18	44.31	8.5	100	304	Peak
5350	43.08	-10.92	54	44.71	34.18	44.31	8.5	100	304	Average





Test Mode :	Mode 4	Temperature :	23~24°C
Test Channel :	52	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.36	-18.64	74	57.51	34.02	44.48	8.31	103	349	Peak
5150	43.12	-10.88	54	45.27	34.02	44.48	8.31	103	349	Average
5260	106.93	-	-	108.77	34.11	44.38	8.43	103	349	Peak
5260	97.44	-	-	99.28	34.11	44.38	8.43	103	349	Average
5350	54.48	-19.52	74	56.11	34.18	44.31	8.5	103	349	Peak
5350	43.06	-10.94	54	44.69	34.18	44.31	8.5	103	349	Average



Test Mode :	Mode 4	Temperature :	23~24°C
Test Channel :	52	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.18	-18.82	74	57.33	34.02	44.48	8.31	100	303	Peak
5150	43.07	-10.93	54	45.22	34.02	44.48	8.31	100	303	Average
5260	105.43	-	-	107.32	34.1	44.39	8.4	100	303	Peak
5260	95.8	-	-	97.64	34.11	44.38	8.43	100	303	Average
5350	53.92	-20.08	74	55.55	34.18	44.31	8.5	100	303	Peak
5350	43.02	-10.98	54	44.65	34.18	44.31	8.5	100	303	Average



Test Mode :	Mode 5	Temperature :	23~24°C
Test Channel :	60	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5300 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.78	-19.22	74	56.93	34.02	44.48	8.31	102	351	Peak
5150	43.08	-10.92	54	45.23	34.02	44.48	8.31	102	351	Average
5300	105.63	-	-	107.39	34.14	44.35	8.45	102	351	Peak
5300	96.13	-	-	97.89	34.14	44.35	8.45	102	351	Average
5350	54.37	-19.63	74	56	34.18	44.31	8.5	102	351	Peak
5350	43.07	-10.93	54	44.7	34.18	44.31	8.5	102	351	Average



<b>Test Mode :</b>	Mode 5	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	60	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5300 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.54	-18.46	74	57.69	34.02	44.48	8.31	100	303	Peak
5150	43.08	-10.92	54	45.23	34.02	44.48	8.31	100	303	Average
5300	103.67	-	-	105.43	34.14	44.35	8.45	100	303	Peak
5300	93.56	-	-	95.32	34.14	44.35	8.45	100	303	Average
5350	54.43	-19.57	74	56.06	34.18	44.31	8.5	100	303	Peak
5350	42.99	-11.01	54	44.62	34.18	44.31	8.5	100	303	Average



Test Mode :	Mode 6	Temperature :	23~24°C
Test Channel :	64	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	42.95	-11.05	54	45.1	34.02	44.48	8.31	101	343	Average
5150	54.5	-19.5	74	56.65	34.02	44.48	8.31	101	343	Peak
5320	104.29	-	-	106	34.15	44.34	8.48	101	343	Peak
5320	94.71	-	-	96.42	34.15	44.34	8.48	101	343	Average
5350	58.46	-15.54	74	60.09	34.18	44.31	8.5	101	343	Peak
5350	44.62	-9.38	54	46.25	34.18	44.31	8.5	101	343	Average



<b>Test Mode :</b>	Mode 6	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	64	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5320 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	43.03	-10.97	54	45.18	34.02	44.48	8.31	100	292	Average
5150	54.76	-19.24	74	56.91	34.02	44.48	8.31	100	292	Peak
5320	102.56	-	-	104.27	34.15	44.34	8.48	100	292	Peak
5320	93.21	-	-	94.92	34.15	44.34	8.48	100	292	Average
5350	57.33	-16.67	74	58.96	34.18	44.31	8.5	100	292	Peak
5350	44.35	-9.65	54	45.98	34.18	44.31	8.5	100	292	Average



Test Mode :	Mode 7	Temperature :	23~24°C
Test Channel :	100	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5500 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	44.59	-23.71	68.3	45.92	34.27	44.22	8.62	101	22	Average
5470	58.62	-29.68	88.3	59.95	34.27	44.22	8.62	101	22	Peak
5500	104.19	-	-	105.45	34.29	44.2	8.65	101	22	Peak
5500	94.53	-	-	95.75	34.3	44.19	8.67	101	22	Average
5725	54.18	-34.12	88.3	55.48	34.21	44.33	8.82	101	22	Peak
5725	42.76	-25.54	68.3	44.06	34.21	44.33	8.82	101	22	Average



<b>Test Mode :</b>	Mode 7	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	100	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5500 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	43.93	-24.37	68.3	45.26	34.27	44.22	8.62	109	291	Average
5470	57.75	-30.55	88.3	59.08	34.27	44.22	8.62	109	291	Peak
5500	104.56	-	-	105.82	34.29	44.2	8.65	109	291	Peak
5500	94.83	-	-	96.05	34.3	44.19	8.67	109	291	Average
5725	54.42	-33.88	88.3	55.72	34.21	44.33	8.82	109	291	Peak
5725	42.7	-25.6	68.3	44	34.21	44.33	8.82	109	291	Average





<b>Test Mode :</b>	Mode 8	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	120	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5600 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	54.9	-33.4	88.3	56.23	34.27	44.22	8.62	140	238	Peak
5470	43.14	-25.16	68.3	44.47	34.27	44.22	8.62	140	238	Average
5600	105.09	-	-	106.32	34.27	44.24	8.74	140	238	Peak
5600	95.41	-	-	96.66	34.26	44.25	8.74	140	238	Average
5725	54.19	-34.11	88.3	55.49	34.21	44.33	8.82	140	238	Peak
5725	43.11	-25.19	68.3	44.41	34.21	44.33	8.82	140	238	Average



<b>Test Mode :</b>	Mode 8	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	120	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5600 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	54.08	-34.22	88.3	55.41	34.27	44.22	8.62	100	343	Peak
5470	42.73	-25.57	68.3	44.06	34.27	44.22	8.62	100	343	Average
5600	101.22	-	-	102.45	34.27	44.24	8.74	100	343	Peak
5600	91.43	-	-	92.68	34.26	44.25	8.74	100	343	Average
5725	53.71	-34.59	88.3	55.01	34.21	44.33	8.82	100	343	Peak
5725	42.74	-25.56	68.3	44.04	34.21	44.33	8.82	100	343	Average



Test Mode :	Mode 9	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	42.72	-25.58	68.3	44.05	34.27	44.22	8.62	100	30	Average
5470	54.8	-33.5	88.3	56.13	34.27	44.22	8.62	100	30	Peak
5700	105.87	-	-	107.15	34.22	44.31	8.81	100	30	Peak
5700	95.93	-	-	97.21	34.22	44.31	8.81	100	30	Average
5725	67.94	-20.36	88.3	69.24	34.21	44.33	8.82	100	30	Peak
5725	50.96	-17.34	68.3	52.26	34.21	44.33	8.82	100	30	Average



Test Mode :	Mode 9	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	42.65	-25.65	68.3	43.98	34.27	44.22	8.62	112	250	Average
5470	54.31	-33.99	88.3	55.64	34.27	44.22	8.62	112	250	Peak
5700	106.51	-	-	107.79	34.22	44.31	8.81	112	250	Peak
5700	96.54	-	-	97.82	34.22	44.31	8.81	112	250	Average
5725	51.38	-16.92	68.3	52.68	34.21	44.33	8.82	112	250	Average
5725	68.21	-20.09	88.3	69.51	34.21	44.33	8.82	112	250	Peak



Test Mode :	Mode 10	Temperature :	23~24°C
Test Channel :	36	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5180 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	43.79	-10.21	54	45.94	34.02	44.48	8.31	100	32	Average
5150	55.37	-18.63	74	57.52	34.02	44.48	8.31	100	32	Peak
5180	91.08	-	-	93.15	34.05	44.45	8.33	100	32	Average
5180	101.34	-	-	103.41	34.05	44.45	8.33	100	32	Peak
5350	42.65	-11.35	54	44.28	34.18	44.31	8.5	100	32	Average
5350	53.14	-20.86	74	54.77	34.18	44.31	8.5	100	32	Peak



<b>Test Mode :</b>	Mode 10	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	36	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5180 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	44.5	-9.5	54	46.65	34.02	44.48	8.31	100	222	Average
5150	57.97	-16.03	74	60.12	34.02	44.48	8.31	100	222	Peak
5180	93.68	-	-	95.75	34.05	44.45	8.33	100	222	Average
5180	104.02	-	-	106.09	34.05	44.45	8.33	100	222	Peak
5350	54.59	-19.41	74	56.22	34.18	44.31	8.5	100	222	Peak
5350	43.1	-10.9	54	44.73	34.18	44.31	8.5	100	222	Average



<b>Test Mode :</b>	Mode 11	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5220 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.44	-19.56	74	56.59	34.02	44.48	8.31	100	35	Peak
5150	42.83	-11.17	54	44.98	34.02	44.48	8.31	100	35	Average
5220	91.83	-	-	93.8	34.07	44.42	8.38	100	35	Average
5220	101.92	-	-	103.89	34.07	44.42	8.38	100	35	Peak
5350	53.49	-20.51	74	55.12	34.18	44.31	8.5	100	35	Peak
5350	42.88	-11.12	54	44.51	34.18	44.31	8.5	100	35	Average



<b>Test Mode :</b>	Mode 11	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	44	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5220 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.07	-18.93	74	57.22	34.02	44.48	8.31	100	208	Peak
5150	42.86	-11.14	54	45.01	34.02	44.48	8.31	100	208	Average
5220	105.55	-	-	107.52	34.07	44.42	8.38	100	208	Peak
5220	95.35	-	-	97.32	34.07	44.42	8.38	100	208	Average
5350	43.47	-10.53	54	45.1	34.18	44.31	8.5	100	208	Average
5350	55.31	-18.69	74	56.94	34.18	44.31	8.5	100	208	Peak





<b>Test Mode :</b>	Mode 12	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	48	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5240 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.82	-18.18	74	57.97	34.02	44.48	8.31	109	34	Peak
5150	42.95	-11.05	54	45.1	34.02	44.48	8.31	109	34	Average
5240	90.63	-	-	92.55	34.09	44.41	8.4	109	34	Average
5240	100.55	-	-	102.49	34.09	44.41	8.38	109	34	Peak
5350	53.96	-20.04	74	55.59	34.18	44.31	8.5	109	34	Peak
5350	42.83	-11.17	54	44.46	34.18	44.31	8.5	109	34	Average



<b>Test Mode :</b>	Mode 12	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	48	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5240 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.12	-19.88	74	56.27	34.02	44.48	8.31	101	208	Peak
5150	42.9	-11.1	54	45.05	34.02	44.48	8.31	101	208	Average
5240	105.92	-	-	107.84	34.09	44.41	8.4	101	208	Peak
5240	95.97	-	-	97.89	34.09	44.41	8.4	101	208	Average
5350	43.13	-10.87	54	44.76	34.18	44.31	8.5	101	208	Average
5350	54.06	-19.94	74	55.69	34.18	44.31	8.5	101	208	Peak



<b>Test Mode :</b>	Mode 13	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	52	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5260 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	55.08	-18.92	74	57.23	34.02	44.48	8.31	109	34	Peak
5150	42.81	-11.19	54	44.96	34.02	44.48	8.31	109	34	Average
5260	102.17	-	-	104.01	34.11	44.38	8.43	109	34	Peak
5260	92.16	-	-	94	34.11	44.38	8.43	109	34	Average
5350	53.49	-20.51	74	55.12	34.18	44.31	8.5	109	34	Peak
5350	42.86	-11.14	54	44.49	34.18	44.31	8.5	109	34	Average



Test Mode :	Mode 13	Temperature :	23~24°C
Test Channel :	52	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5260 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.69	-19.31	74	56.84	34.02	44.48	8.31	100	205	Peak
5150	42.87	-11.13	54	45.02	34.02	44.48	8.31	100	205	Average
5260	106.29	-	-	108.18	34.1	44.39	8.4	100	205	Peak
5260	96.23	-	-	98.07	34.11	44.38	8.43	100	205	Average
5350	53.88	-20.12	74	55.51	34.18	44.31	8.5	100	205	Peak
5350	43.1	-10.9	54	44.73	34.18	44.31	8.5	100	205	Average



<b>Test Mode :</b>	Mode 14	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	60	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5300 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.36	-19.64	74	56.51	34.02	44.48	8.31	108	36	Peak
5150	42.87	-11.13	54	45.02	34.02	44.48	8.31	108	36	Average
5300	91.66	-	-	93.42	34.14	44.35	8.45	108	36	Average
5300	101.86	-	-	103.62	34.14	44.35	8.45	108	36	Peak
5350	54.35	-19.65	74	55.98	34.18	44.31	8.5	108	36	Peak
5350	44.51	-9.49	54	46.14	34.18	44.31	8.5	108	36	Average



<b>Test Mode :</b>	Mode 14	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	60	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5300 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.46	-19.54	74	56.61	34.02	44.48	8.31	136	203	Peak
5150	44.95	-9.05	54	47.1	34.02	44.48	8.31	136	203	Average
5300	107.56	-	-	109.32	34.14	44.35	8.45	136	203	Peak
5300	97.58	-	-	99.34	34.14	44.35	8.45	136	203	Average
5350	55.61	-18.39	74	57.24	34.18	44.31	8.5	136	203	Peak
5350	44.42	-9.58	54	46.05	34.18	44.31	8.5	136	203	Average



Test Mode :	Mode 15	Temperature :	23~24°C
Test Channel :	64	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5320 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	54.49	-19.51	74	56.64	34.02	44.48	8.31	178	359	Peak
5150	45.03	-8.97	54	47.18	34.02	44.48	8.31	178	359	Average
5320	103.45	-	-	105.16	34.15	44.34	8.48	178	359	Peak
5320	93.33	-	-	95.04	34.15	44.34	8.48	178	359	Average
5350	61.78	-12.22	74	63.41	34.18	44.31	8.5	178	359	Peak
5350	44.13	-9.87	54	45.76	34.18	44.31	8.5	178	359	Average



<b>Test Mode :</b>	Mode 15	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	64	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5320 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5150	42.83	-11.17	54	44.98	34.02	44.48	8.31	157	290	Average
5150	54.37	-19.63	74	56.52	34.02	44.48	8.31	157	290	Peak
5320	89.9	-	-	91.61	34.15	44.34	8.48	157	290	Average
5320	100.27	-	-	101.98	34.15	44.34	8.48	157	290	Peak
5350	59.91	-14.09	74	61.54	34.18	44.31	8.5	157	290	Peak
5350	43.63	-10.37	54	45.26	34.18	44.31	8.5	157	290	Average





<b>Test Mode :</b>	Mode 16	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	100	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5500 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	43.53	-24.77	68.3	44.86	34.27	44.22	8.62	182	360	Average
5470	58.59	-29.71	88.3	59.92	34.27	44.22	8.62	182	360	Peak
5500	101.97	-	-	103.23	34.29	44.2	8.65	182	360	Peak
5500	92.27	-	-	93.49	34.3	44.19	8.67	182	360	Average
5725	54.83	-33.47	88.3	56.13	34.21	44.33	8.82	182	360	Peak
5725	42.88	-25.42	68.3	44.18	34.21	44.33	8.82	182	360	Average



Test Mode :	Mode 16	Temperature :	23~24°C
Test Channel :	100	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5500 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	44.88	-23.42	68.3	46.21	34.27	44.22	8.62	142	189	Average
5470	61.04	-27.26	88.3	62.37	34.27	44.22	8.62	142	189	Peak
5500	106.95	-	-	108.21	34.29	44.2	8.65	142	189	Peak
5500	97.22	-	-	98.44	34.3	44.19	8.67	142	189	Average
5725	54.84	-33.46	88.3	56.14	34.21	44.33	8.82	142	189	Peak
5725	42.91	-25.39	68.3	44.21	34.21	44.33	8.82	142	189	Average



Test Mode :	Mode 17	Temperature :	23~24°C
Test Channel :	120	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5600 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	53.92	-34.38	88.3	55.25	34.27	44.22	8.62	109	23	Peak
5470	42.83	-25.47	68.3	44.16	34.27	44.22	8.62	109	23	Average
5600	105.62	-	-	106.85	34.27	44.24	8.74	109	23	Peak
5600	95.79	-	-	97.04	34.26	44.25	8.74	109	23	Average
5725	53.47	-34.83	88.3	54.77	34.21	44.33	8.82	109	23	Peak
5725	42.9	-25.4	68.3	44.2	34.21	44.33	8.82	109	23	Average



Test Mode :	Mode 17	Temperature :	23~24°C
Test Channel :	120	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5600 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	56.29	-32.01	88.3	57.62	34.27	44.22	8.62	103	219	Peak
5470	43.01	-25.29	68.3	44.34	34.27	44.22	8.62	103	219	Average
5600	107.82	-	-	109.07	34.26	44.25	8.74	103	219	Peak
5600	97.84	-	-	99.09	34.26	44.25	8.74	103	219	Average
5725	54.97	-33.33	88.3	56.27	34.21	44.33	8.82	103	219	Peak
5725	42.69	-25.61	68.3	43.99	34.21	44.33	8.82	103	219	Average



Test Mode :	Mode 18	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Horizontal
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	54.13	-34.17	88.3	55.46	34.27	44.22	8.62	168	25	Peak
5470	42.8	-25.5	68.3	44.13	34.27	44.22	8.62	168	25	Average
5700	103.21	-	-	104.49	34.22	44.31	8.81	168	25	Peak
5700	93.33	-	-	94.61	34.22	44.31	8.81	168	25	Average
5725	65.73	-22.57	88.3	67.03	34.21	44.33	8.82	168	25	Peak
5725	47.72	-20.58	68.3	49.02	34.21	44.33	8.82	168	25	Average



Test Mode :	Mode 18	Temperature :	23~24°C
Test Channel :	140	Relative Humidity :	49~53%
Test Engineer :	Cona Huang	Polarization :	Vertical
Remark :	5700 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
5470	42.8	-25.5	68.3	44.13	34.27	44.22	8.62	100	218	Average
5470	54.68	-33.62	88.3	56.01	34.27	44.22	8.62	100	218	Peak
5700	107.28	-	-	108.56	34.22	44.31	8.81	100	218	Peak
5700	97.34	-	-	98.62	34.22	44.31	8.81	100	218	Average
5725	70.43	-17.87	88.3	71.73	34.21	44.33	8.82	100	218	Peak
5725	51.94	-16.36	68.3	53.24	34.21	44.33	8.82	100	218	Average



<b>Test Mode :</b>	Mode 19	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	38	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5190 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
34.86	35.12	-4.88	40	50.36	15.53	31.52	0.75			Peak
48.9	31.5	-8.5	40	53.79	8.44	31.57	0.84			Peak
260.58	42.7	-3.3	46	58.58	13.66	31.47	1.93	100	116	Peak
302.1	36.39	-9.61	46	51.92	13.65	31.27	2.09			Peak
399.4	35.85	-10.15	46	48.18	16.45	31.18	2.4			Peak
873.3	33.6	-12.4	46	39.62	20.93	30.49	3.54			Peak
5150	64.55	-9.45	74	66.7	34.02	44.48	8.31	100	36	Peak
5150	50.96	-3.04	54	53.11	34.02	44.48	8.31	100	36	Average
5190	98.77	-	-	100.8	34.06	44.44	8.35	100	36	Peak
5190	88.03	-	-	90.08	34.05	44.45	8.35	100	36	Average
5350	41.16	-32.84	74	42.79	34.18	44.31	8.5	100	36	Peak
5350	28.93	-25.07	54	30.56	34.18	44.31	8.5	100	36	Average
8246	50.39	-23.61	74	48.36	35.75	44.4	10.68	100	46	Peak
8246	31.25	-22.75	54	29.22	35.75	44.4	10.68	100	46	Average



<b>Test Mode :</b>	Mode 19	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	38	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5190MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBuV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
40.53	34.23	-5.77	40	52.78	12.17	31.52	0.8			Peak
66.45	32.39	-7.61	40	56.81	6.09	31.51	1			Peak
106.41	38.67	-4.83	43.5	57.03	11.92	31.54	1.26	100	176	Peak
531	38.3	-7.7	46	47.73	18.85	31	2.72			Peak
654.9	37.62	-8.38	46	45.69	19.66	30.77	3.04			Peak
755	37.11	-8.89	46	43.65	20.72	30.54	3.28			Peak
5150	48.78	-5.22	54	50.93	34.02	44.48	8.31	100	300	Average
5150	63.17	-10.83	74	65.32	34.02	44.48	8.31	100	300	Peak
5190	87.63	-	-	89.68	34.05	44.45	8.35	100	300	Average
5190	98.46	-	-	100.49	34.06	44.44	8.35	100	300	Peak
5350	28.77	-25.23	54	30.4	34.18	44.31	8.5	100	300	Average
5350	40.04	-33.96	74	41.67	34.18	44.31	8.5	100	300	Peak
8254	50.09	-23.91	74	48.07	35.75	44.41	10.68	100	156	Peak
8254	31.91	-22.09	54	29.89	35.75	44.41	10.68	100	156	Average





<b>Test Mode :</b>	Mode 20	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	46	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5230 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	34.92	-5.08	40	52.47	13.17	31.51	0.79	-	-	Peak
48.9	32.86	-7.14	40	55.15	8.44	31.57	0.84	-	-	Peak
260.58	42.17	-3.83	46	58.05	13.66	31.47	1.93	100	140	Peak
302.1	34.35	-11.65	46	49.88	13.65	31.27	2.09	-	-	Peak
360.9	33.92	-12.08	46	47.63	15.28	31.28	2.29	-	-	Peak
410.6	35.11	-10.89	46	46.97	16.88	31.17	2.43	-	-	Peak
5150	50.97	-23.03	74	53.12	34.02	44.48	8.31	100	32	Peak
5150	36.46	-17.54	54	38.61	34.02	44.48	8.31	100	32	Average
5230	102.01	-	-	103.98	34.07	44.42	8.38	100	32	Peak
5230	91.01	-	-	92.95	34.09	44.41	8.38	100	32	Average
5350	43.01	-30.99	74	44.64	34.18	44.31	8.5	100	32	Peak
5350	31.38	-22.62	54	33.01	34.18	44.31	8.5	100	32	Average
8236	50.35	-23.65	74	48.32	35.75	44.4	10.68	100	154	Peak
8236	33.23	-20.77	54	31.2	35.75	44.4	10.68	100	154	Average



<b>Test Mode :</b>	Mode 20	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	46	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5230 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	35.74	-4.26	40	53.29	13.17	31.51	0.79	100	21	Peak
107.49	38.83	-4.67	43.5	56.93	12.16	31.53	1.27	-	-	Peak
128.82	35.56	-7.94	43.5	53.28	12.43	31.52	1.37	-	-	Peak
534.5	38.45	-7.55	46	47.75	18.95	30.99	2.74	-	-	Peak
654.9	36.31	-9.69	46	44.38	19.66	30.77	3.04	-	-	Peak
727.7	36.86	-9.14	46	43.88	20.38	30.62	3.22	-	-	Peak
5150	50.77	-23.23	74	52.92	34.02	44.48	8.31	101	308	Peak
5150	34.41	-19.59	54	36.56	34.02	44.48	8.31	101	308	Average
5230	100.48	-	-	102.42	34.09	44.41	8.38	101	308	Peak
5230	90.18	-	-	92.12	34.09	44.41	8.38	101	308	Average
5350	42.06	-31.94	74	43.69	34.18	44.31	8.5	101	308	Peak
5350	30.98	-23.02	54	32.61	34.18	44.31	8.5	101	308	Average
8270	49.92	-24.08	74	47.88	35.74	44.41	10.71	100	251	Peak
8270	32.16	-21.84	54	30.12	35.74	44.41	10.71	100	251	Average



<b>Test Mode :</b>	Mode 21	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	54	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5270 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	35.37	-4.63	40	52.92	13.17	31.51	0.79	-	-	Peak
48.9	33.64	-6.36	40	55.93	8.44	31.57	0.84	-	-	Peak
260.58	42.85	-3.15	46	58.73	13.66	31.47	1.93	100	127	Peak
365.8	34.24	-11.76	46	47.8	15.41	31.27	2.3	-	-	Peak
410.6	35.24	-10.76	46	47.1	16.88	31.17	2.43	-	-	Peak
757.8	33.29	-12.71	46	39.82	20.72	30.54	3.29	-	-	Peak
5150	43.44	-30.56	74	45.59	34.02	44.48	8.31	100	33	Peak
5150	31.53	-22.47	54	33.68	34.02	44.48	8.31	100	33	Average
5270	89.66	-	-	91.5	34.11	44.38	8.43	100	33	Average
5270	99.97	-	-	101.86	34.1	44.39	8.4	100	33	Peak
5350	45.32	-28.68	74	46.95	34.18	44.31	8.5	100	33	Peak
5350	33.38	-20.62	54	35.01	34.18	44.31	8.5	100	33	Average
8414	50.23	-23.77	74	48.1	35.72	44.45	10.86	100	149	Peak
8414	32.6	-21.4	54	30.47	35.72	44.45	10.86	100	149	Average



<b>Test Mode :</b>	Mode 21	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	54	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5270 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	36.46	-3.54	40	54.01	13.17	31.51	0.79	-	-	Peak
42.69	36.52	-3.48	40	55.91	11.34	31.54	0.81	110	188	Peak
107.49	39.11	-4.39	43.5	57.21	12.16	31.53	1.27	-	-	Peak
435.8	33.87	-12.13	46	45.49	17.03	31.16	2.51	-	-	Peak
533.8	38.64	-7.36	46	47.97	18.92	30.99	2.74	-	-	Peak
719.3	37.19	-8.81	46	44.34	20.25	30.65	3.25	-	-	Peak
5150	31.33	-42.67	74	33.48	34.02	44.48	8.31	100	307	Peak
5150	44.24	-29.76	74	46.39	34.02	44.48	8.31	100	307	Peak
5270	99.46	-	-	101.3	34.11	44.38	8.43	100	307	Peak
5270	88.87	-	-	90.71	34.11	44.38	8.43	100	307	Peak
5350	46.35	-27.65	74	47.98	34.18	44.31	8.5	100	307	Peak
5350	33.08	-40.92	74	34.71	34.18	44.31	8.5	100	307	Peak
8342	50.13	-23.87	74	48.04	35.73	44.43	10.79	100	177	Peak
8342	33.34	-20.66	54	31.25	35.73	44.43	10.79	100	177	Average



<b>Test Mode :</b>	Mode 22	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	62	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5310 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
35.94	35.05	-4.95	40	50.87	14.94	31.52	0.76			Peak
48.9	33.27	-6.73	40	55.56	8.44	31.57	0.84			Peak
260.58	42.71	-3.29	46	58.59	13.66	31.47	1.93	100	96	Peak
304.2	35.64	-10.36	46	51.09	13.73	31.27	2.09			Peak
399.4	35.37	-10.63	46	47.7	16.45	31.18	2.4			Peak
799.8	34.1	-11.9	46	40.49	20.75	30.54	3.4			Peak
5150	41.56	-32.44	74	43.71	34.02	44.48	8.31	100	46	Peak
5150	29.81	-24.19	54	31.96	34.02	44.48	8.31	100	46	Average
5310	97.73	-	-	99.49	34.14	44.35	8.45	100	46	Peak
5310	86.44	-	-	88.15	34.15	44.34	8.48	100	46	Average
5350	64.86	-9.14	74	66.49	34.18	44.31	8.5	100	46	Peak
5350	50.44	-3.56	54	52.07	34.18	44.31	8.5	100	46	Average
8222	50.6	-23.4	74	48.58	35.76	44.4	10.66	100	257	Peak
8222	33.03	-20.97	54	31.01	35.76	44.4	10.66	100	257	Average



<b>Test Mode :</b>	Mode 22	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	62	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5310 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
40.26	35.38	-4.62	40	53.93	12.17	31.52	0.8			Peak
66.45	34.2	-5.8	40	58.62	6.09	31.51	1			Peak
108.57	39.35	-4.15	43.5	57.33	12.28	31.53	1.27	100	55	Peak
533.8	38.24	-7.76	46	47.57	18.92	30.99	2.74			Peak
654.9	36.2	-9.8	46	44.27	19.66	30.77	3.04			Peak
758.5	35.67	-10.33	46	42.2	20.72	30.54	3.29			Peak
5150	40.56	-33.44	74	42.71	34.02	44.48	8.31	100	309	Peak
5150	29.11	-24.89	54	31.26	34.02	44.48	8.31	100	309	Average
5310	96.16	-	-	97.92	34.14	44.35	8.45	100	309	Peak
5310	85.88	-	-	87.59	34.15	44.34	8.48	100	309	Average
5350	48.63	-5.37	54	50.26	34.18	44.31	8.5	100	309	Average
5350	62.76	-11.24	74	64.39	34.18	44.31	8.5	100	309	Peak
8230	50.5	-23.5	74	48.48	35.76	44.4	10.66	115	156	Peak
8230	33.03	-20.97	54	31.01	35.76	44.4	10.66	115	156	Average



<b>Test Mode :</b>	Mode 23	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	102	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5510 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	34.73	-5.27	40	52.28	13.17	31.51	0.79	-	-	Peak
48.9	31.59	-8.41	40	53.88	8.44	31.57	0.84	-	-	Peak
259.5	42.13	-3.87	46	58	13.68	31.48	1.93	100	15	Peak
300	34.45	-11.55	46	50.06	13.58	31.27	2.08	-	-	Peak
399.4	35.9	-10.1	46	48.23	16.45	31.18	2.4	-	-	Peak
500.2	31.82	-14.18	46	42.13	18.1	31.08	2.67	-	-	Peak
5470	67.61	-20.69	88.3	68.94	34.27	44.22	8.62	100	335	Peak
5470	53.7	-14.6	68.3	55.03	34.27	44.22	8.62	100	335	Average
5510	87.77	-	-	88.99	34.3	44.19	8.67	100	335	Average
5510	98.22	-	-	99.44	34.3	44.19	8.67	100	335	Peak
5725	30.42	-37.88	68.3	31.72	34.21	44.33	8.82	100	335	Average
5725	42.17	-46.13	88.3	43.47	34.21	44.33	8.82	100	335	Peak
8294	50.11	-23.89	74	48.05	35.74	44.42	10.74	100	251	Peak
8294	32.06	-21.94	54	30	35.74	44.42	10.74	100	251	Average



<b>Test Mode :</b>	Mode 23	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	102	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5510 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	35.46	-4.54	40	53.01	13.17	31.51	0.79	-	-	Peak
48.9	34.22	-5.78	40	56.51	8.44	31.57	0.84	-	-	Peak
109.38	39.58	-3.92	43.5	57.42	12.4	31.52	1.28	100	210	Peak
444.2	33.53	-12.47	46	45.12	17.02	31.15	2.54	-	-	Peak
537.3	38.63	-7.37	46	47.86	18.99	30.98	2.76	-	-	Peak
755	37.48	-8.52	46	44.02	20.72	30.54	3.28	-	-	Peak
5470	51.29	-17.01	68.3	52.62	34.27	44.22	8.62	123	293	Average
5470	66.26	-22.04	88.3	67.59	34.27	44.22	8.62	123	293	Peak
5510	87.29	-	-	88.51	34.3	44.19	8.67	123	293	Average
5510	97.27	-	-	98.53	34.29	44.2	8.65	123	293	Peak
5725	41.31	-46.99	88.3	42.61	34.21	44.33	8.82	123	293	Peak
5725	29.99	-38.31	68.3	31.29	34.21	44.33	8.82	123	293	Average
8350	31.98	-22.02	54	29.89	35.73	44.43	10.79	100	150	Average
8350	50.28	-23.72	74	48.19	35.73	44.43	10.79	100	150	Peak





<b>Test Mode :</b>	Mode 24	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	118	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5590 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	33.32	-6.68	40	50.87	13.17	31.51	0.79	-	-	Peak
44.58	32.25	-7.75	40	52.48	10.51	31.56	0.82	-	-	Peak
263.82	42.34	-3.66	46	58.26	13.59	31.46	1.95	100	152	Peak
357.4	34.1	-11.9	46	47.93	15.18	31.29	2.28	-	-	Peak
399.4	35.91	-10.09	46	48.24	16.45	31.18	2.4	-	-	Peak
410.6	35.8	-10.2	46	47.66	16.88	31.17	2.43	-	-	Peak
5470	43.27	-45.03	88.3	44.6	34.27	44.22	8.62	112	356	Peak
5470	31.71	-36.59	68.3	33.04	34.27	44.22	8.62	112	356	Average
5590	98.07	-	-	99.32	34.27	44.24	8.72	112	356	Peak
5590	87.57	-	-	88.82	34.27	44.24	8.72	112	356	Average
5725	42.99	-45.31	88.3	44.29	34.21	44.33	8.82	112	356	Peak
5725	31.42	-36.88	68.3	32.72	34.21	44.33	8.82	112	356	Average
8268	50.28	-23.72	74	48.24	35.74	44.41	10.71	100	241	Peak
8268	32.21	-21.79	54	30.17	35.74	44.41	10.71	100	241	Average



<b>Test Mode :</b>	Mode 24	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	118	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5590 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
42.69	35.73	-4.27	40	55.12	11.34	31.54	0.81	-	-	Peak
48.9	34.88	-5.12	40	57.17	8.44	31.57	0.84	-	-	Peak
108.3	39.85	-3.65	43.5	57.95	12.16	31.53	1.27	100	221	Peak
526.1	38.79	-7.21	46	48.33	18.74	31.01	2.73	-	-	Peak
617.8	37.67	-8.33	46	46.07	19.42	30.83	3.01	-	-	Peak
719.3	37.33	-8.67	46	44.48	20.25	30.65	3.25	-	-	Peak
5470	43.86	-44.44	88.3	45.19	34.27	44.22	8.62	109	292	Peak
5470	31.37	-36.93	68.3	32.7	34.27	44.22	8.62	109	292	Average
5590	98.45	-	-	99.68	34.27	44.24	8.74	109	292	Peak
5590	87.67	-	-	88.92	34.27	44.24	8.72	109	292	Average
5725	42.73	-45.57	88.3	44.03	34.21	44.33	8.82	109	292	Peak
5725	31.34	-36.96	68.3	32.64	34.21	44.33	8.82	109	292	Average
8350	49.83	-24.17	74	47.74	35.73	44.43	10.79	100	254	Peak
8350	32.97	-21.03	54	30.88	35.73	44.43	10.79	100	254	Average



<b>Test Mode :</b>	Mode 25	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	134	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Horizontal
<b>Remark :</b>	5670 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	35.12	-4.88	40	52.67	13.17	31.51	0.79	-	-	Peak
48.9	31.93	-8.07	40	54.22	8.44	31.57	0.84	-	-	Peak
238.17	42.05	-3.95	46	60.25	11.44	31.51	1.87	100	255	Peak
304.2	34.6	-11.4	46	50.05	13.73	31.27	2.09	-	-	Peak
399.4	36.49	-9.51	46	48.82	16.45	31.18	2.4	-	-	Peak
662.6	32.39	-13.61	46	40.38	19.71	30.76	3.06	-	-	Peak
5470	31.84	-36.46	68.3	33.17	34.27	44.22	8.62	140	245	Average
5470	43.79	-44.51	88.3	45.12	34.27	44.22	8.62	140	245	Peak
5670	102.12	-	-	103.4	34.23	44.3	8.79	140	245	Peak
5670	91.2	-	-	92.48	34.23	44.3	8.79	140	245	Average
5725	49.07	-19.23	68.3	50.37	34.21	44.33	8.82	140	245	Average
5725	62.79	-25.51	88.3	64.09	34.21	44.33	8.82	140	245	Peak
8254	50.26	-23.74	74	48.24	35.75	44.41	10.68	100	214	Peak
8254	31.24	-22.76	54	29.22	35.75	44.41	10.68	100	214	Average



<b>Test Mode :</b>	Mode 25	<b>Temperature :</b>	23~24°C
<b>Test Channel :</b>	134	<b>Relative Humidity :</b>	49~53%
<b>Test Engineer :</b>	Cona Huang	<b>Polarization :</b>	Vertical
<b>Remark :</b>	5670 MHz is Fundamental Signals which can be ignored.		

Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
38.37	33.54	-6.46	40	51.09	13.17	31.51	0.79	-	-	Peak
48.9	32.82	-7.18	40	55.11	8.44	31.57	0.84	-	-	Peak
107.49	39.6	-3.9	43.5	57.7	12.16	31.53	1.27	100	188	Peak
531.7	38.69	-7.31	46	48.09	18.88	31	2.72	-	-	Peak
657	38	-8	46	46.04	19.68	30.76	3.04	-	-	Peak
713	37.58	-8.42	46	44.89	20.16	30.67	3.2	-	-	Peak
5470	30.02	-38.28	68.3	31.35	34.27	44.22	8.62	150	325	Average
5470	42.82	-45.48	88.3	44.15	34.27	44.22	8.62	150	325	Peak
5670	86.97	-	-	88.25	34.23	44.3	8.79	150	325	Average
5670	97.21	-	-	98.49	34.23	44.3	8.79	150	325	Peak
5725	37.02	-51.28	88.3	38.32	34.21	44.33	8.82	150	325	Average
5725	52.56	-15.74	68.3	53.86	34.21	44.33	8.82	150	325	Peak
8198	50.57	-23.43	74	48.57	35.76	44.39	10.63	100	251	Peak
8198	32.48	-21.52	54	30.48	35.76	44.39	10.63	100	251	Average



## **3.4 Automatically Discontinue Transmission**

### **3.4.1 Limit of Automatically Discontinue Transmission**

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

### **3.4.2 Measuring Instruments**

See list of measuring instruments of this test report.

### **3.4.3 Test Result of Automatically Discontinue Transmission**

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



## **3.5 Antenna Requirements**

### **3.5.1 Standard Applicable**

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **3.5.2 Antenna Connected Construction**

The antennas type used in this product is PIFA Antenna with connector and it is considered to meet antenna requirement of FCC.

### **3.5.3 Antenna Gain**

The antenna gain is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



### 4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Test Receive	R&S	ESCS 30	100356	9KHz – 2.75GHz	Aug. 05, 2009	Aug. 04, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9kHz~30MHz	Nov. 30, 2009	Nov. 29, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9kHz~30MHz	Nov. 23, 2009	Nov. 22, 2010	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
COM-POWER	COM-POWER	PA-103	161075	1KHz - 1GHz	May 22, 2009	May 21, 2010	Radiation (03CH05-HY)
Spectrum Analyzer	R&S	FSP7	100643/007	9 kHz - 7 GHz	Jul. 09, 2009	Jul. 08, 2010	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2727C	30 MHz - 1 GHz	Aug. 12, 2009	Aug. 11, 2010	Radiation (03CH05-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 20, 2009	Aug. 19, 2010	Radiation (03CH05-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 KHz~30 MHz	May 22, 2008	May 21, 2010	Radiation (03CH05-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 14, 2009	Oct. 13, 2010	Radiation (03CH05-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz – 26.5 GHz	Jul. 06, 2009	Jul. 05, 2010	Radiation (03CH05-HY)

## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of $X_i$		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>1.13</b>		
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>2.26</b>		

### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of $X_i$		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>1.27</b>		
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>2.54</b>		





**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

Contribution	Uncertainty of $X_i$		$u(X_i)$	$C_i$	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>4.72</b>				



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP051224 as below.

1. External Photograph of EUT

Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008





**Brand Name: Motion Computing Incorporated / Model Name: T008**



Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008







2. **Photograph of Accessory**

**Brand Name: Motion Computing Incorporated / Model Name: T008**

**List of Accessory:**

<b>Specification of Accessory</b>		
<b>AC Adapter</b>	<b>Brand Name</b>	Delta
	<b>Model Name</b>	ADP-50HH REV.B
	<b>Power Rating</b>	I/P:100-240Vac, 50-60Hz, 1.5A; O/P: 19Vdc, 2.64A
	<b>DC Power Cord Type</b>	1.7 meter shielded cable with ferrite core
<b>Battery</b>	<b>Brand Name</b>	Motion
	<b>Model Name</b>	BATKEX00L4
	<b>Power Rating</b>	14.8Vdc, 2000mAh, 30Wh
	<b>Type</b>	Li-ion
<b>WLAN Module</b>	<b>Brand Name</b>	Intel
	<b>Model Name</b>	633ANHMW

**Remark:** For accessories equipped with this EUT, please refer to the following photos.

Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008





Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008



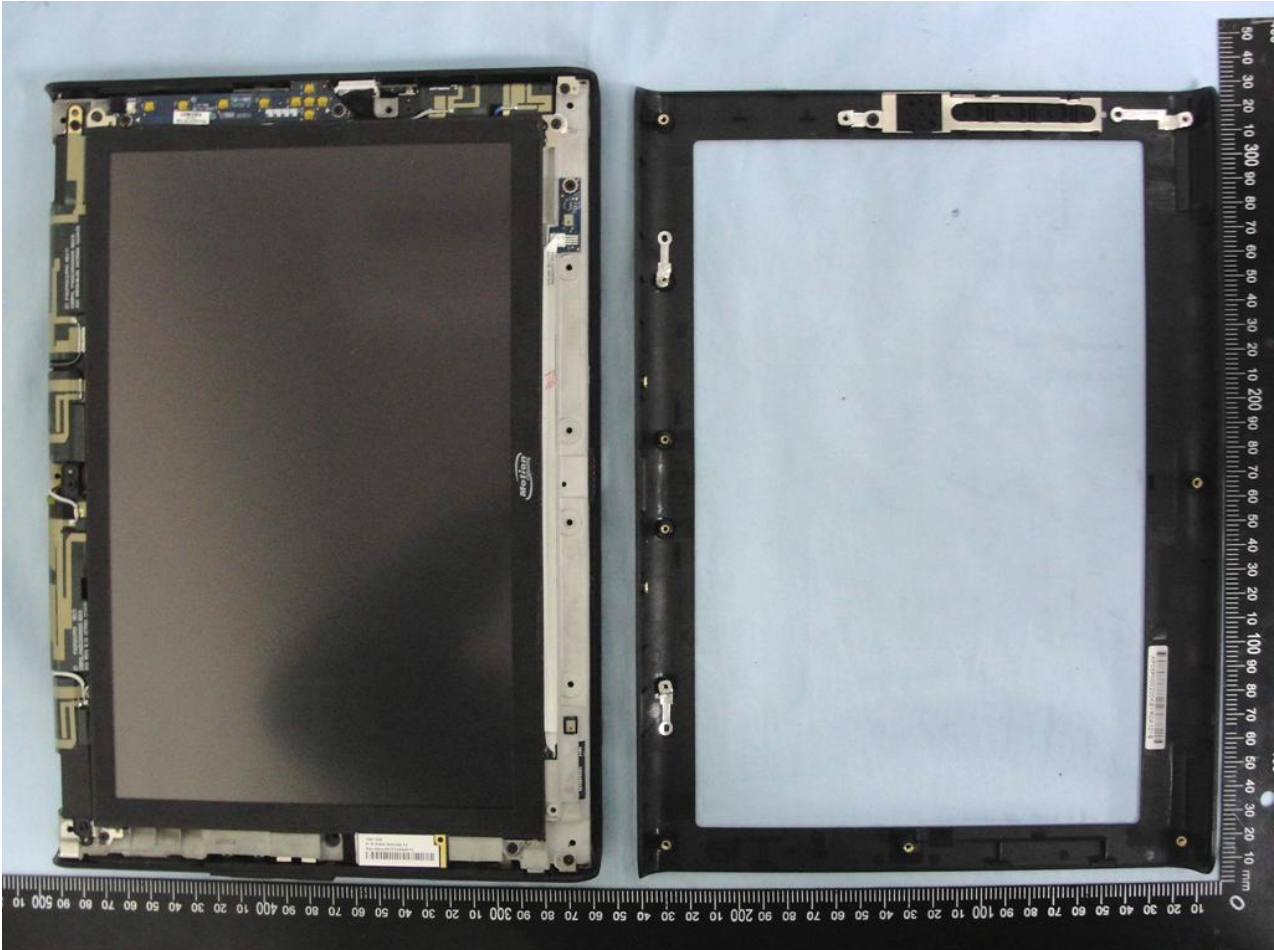
Brand Name: Motion Computing Incorporated / Model Name: T008





### 3. Internal Photograph of EUT

Brand Name: Motion Computing Incorporated / Model Name: T008

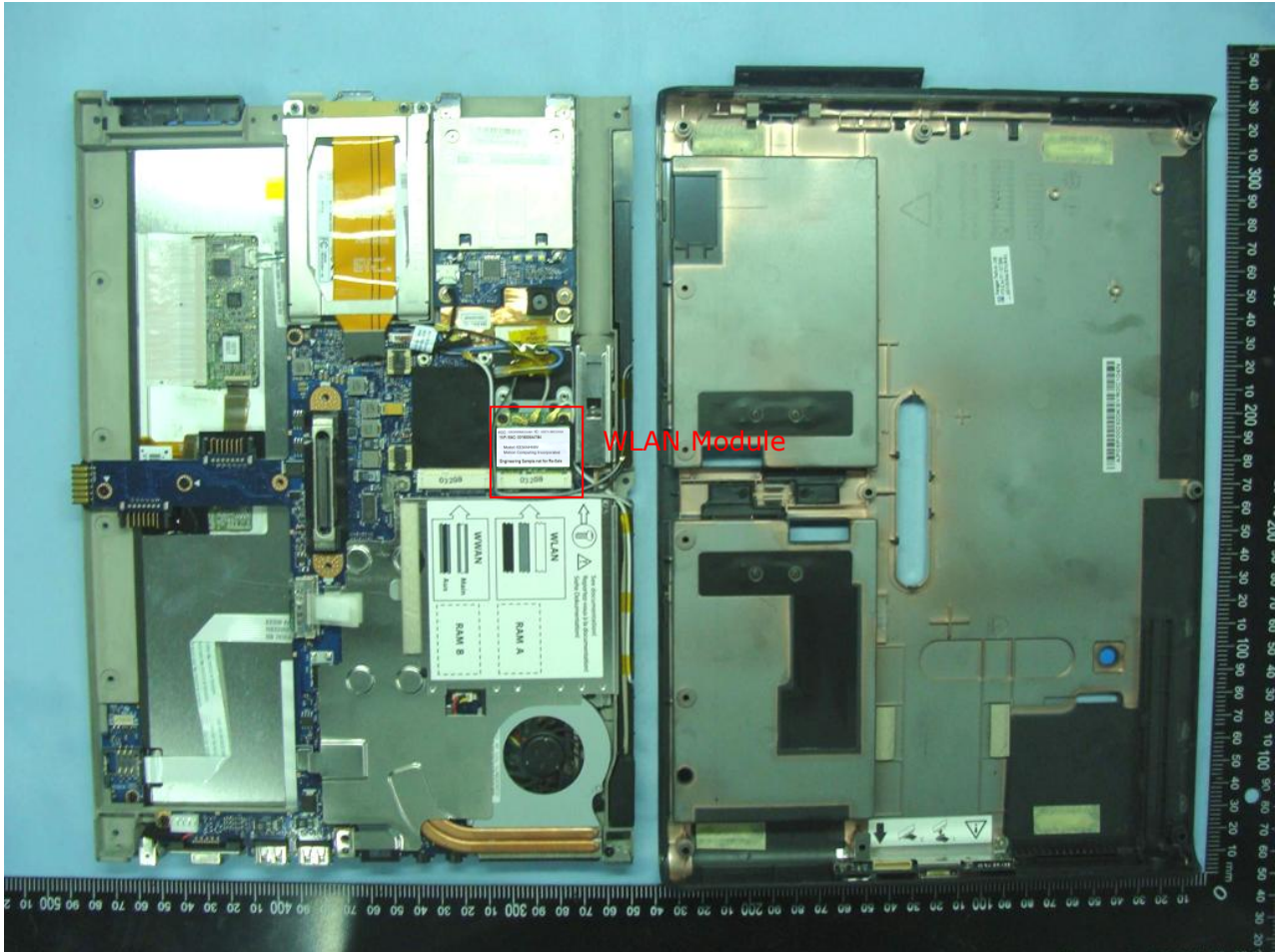




Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008



Brand Name: Motion Computing Incorporated / Model Name: T008





Brand Name: Motion Computing Incorporated / Model Name: T008

WLAN Module



Brand Name: Motion Computing Incorporated / Model Name: T008

WLAN Module





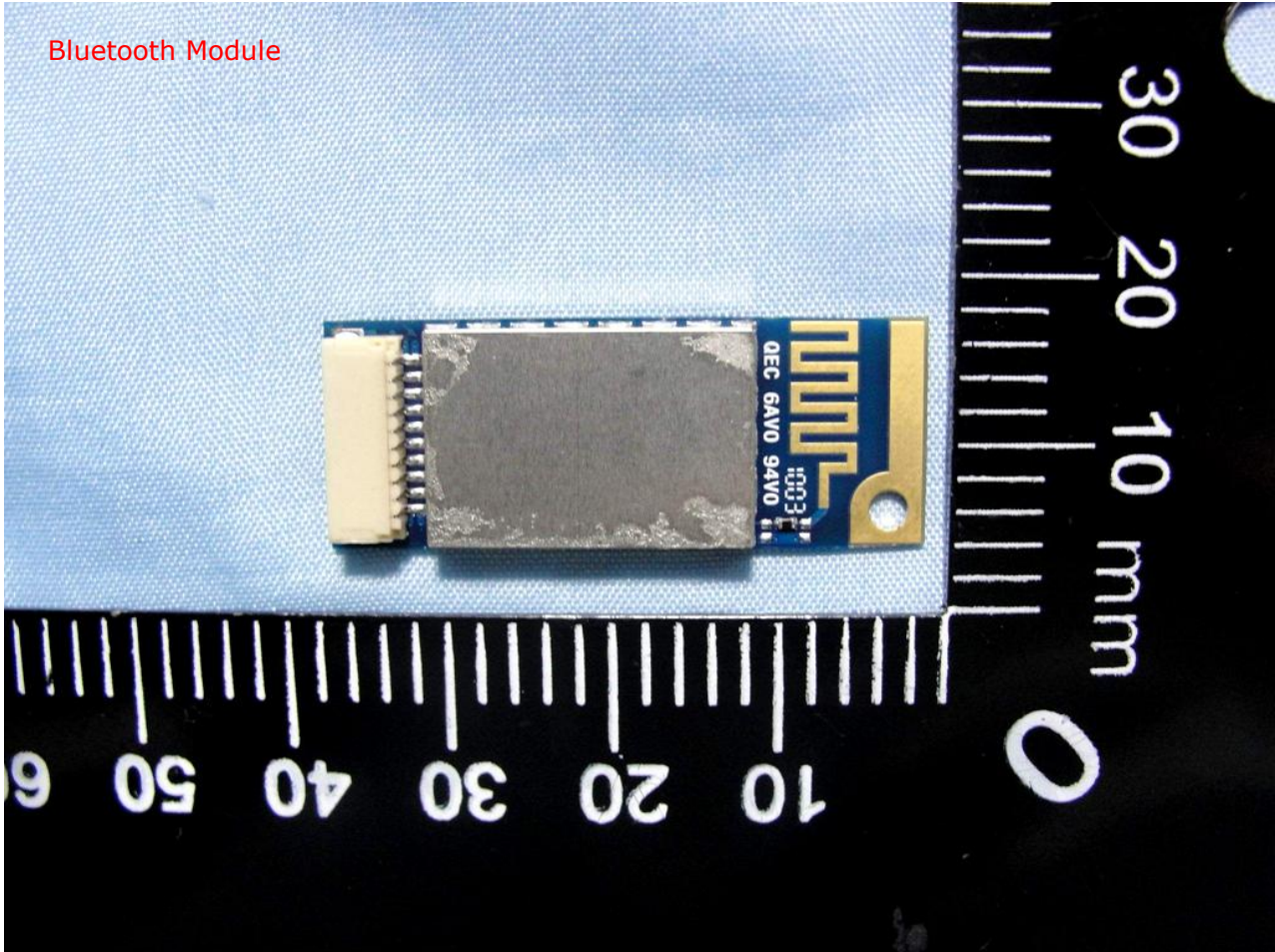
Brand Name: Motion Computing Incorporated / Model Name: T008

Bluetooth Module

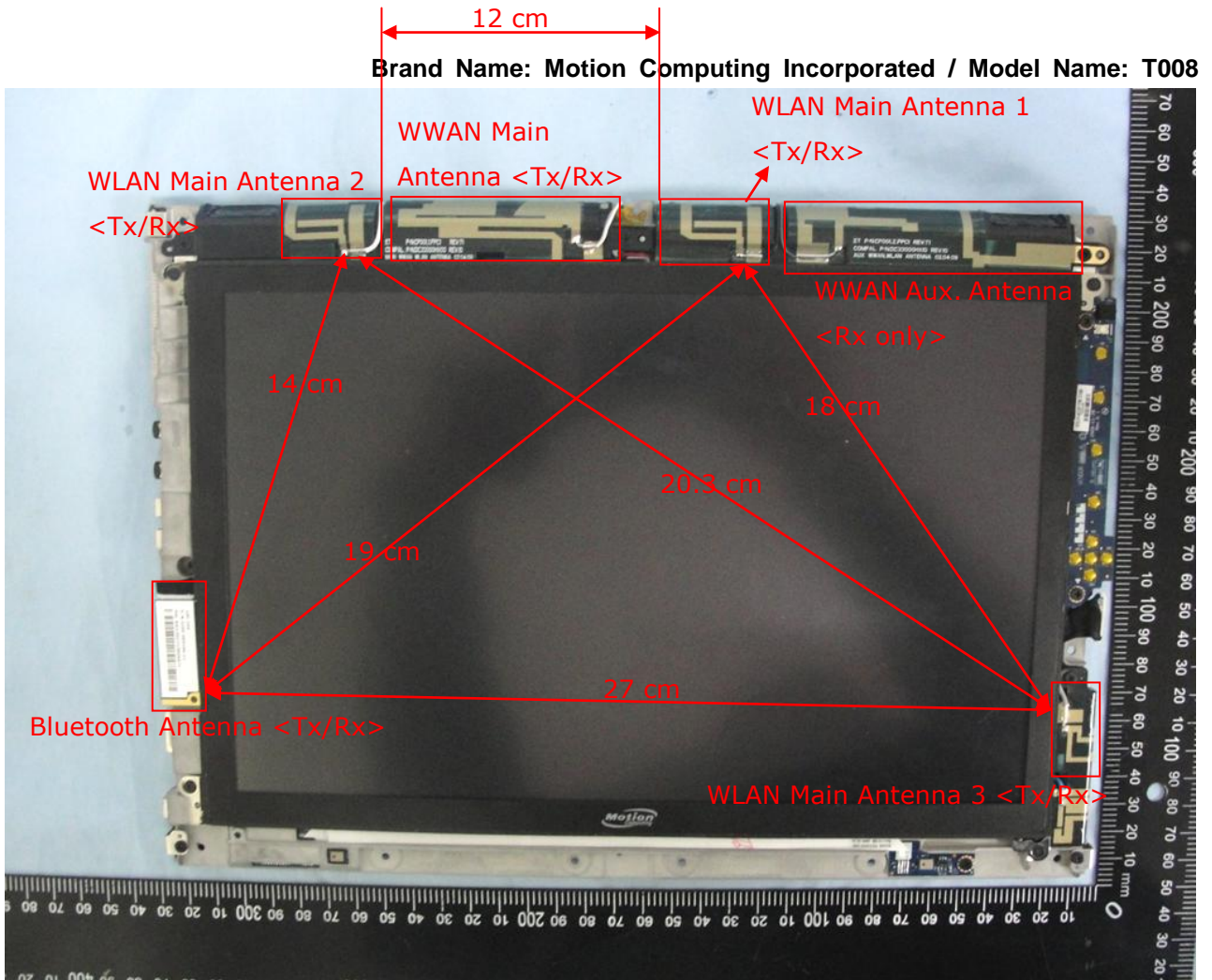


Brand Name: Motion Computing Incorporated / Model Name: T008

Bluetooth Module



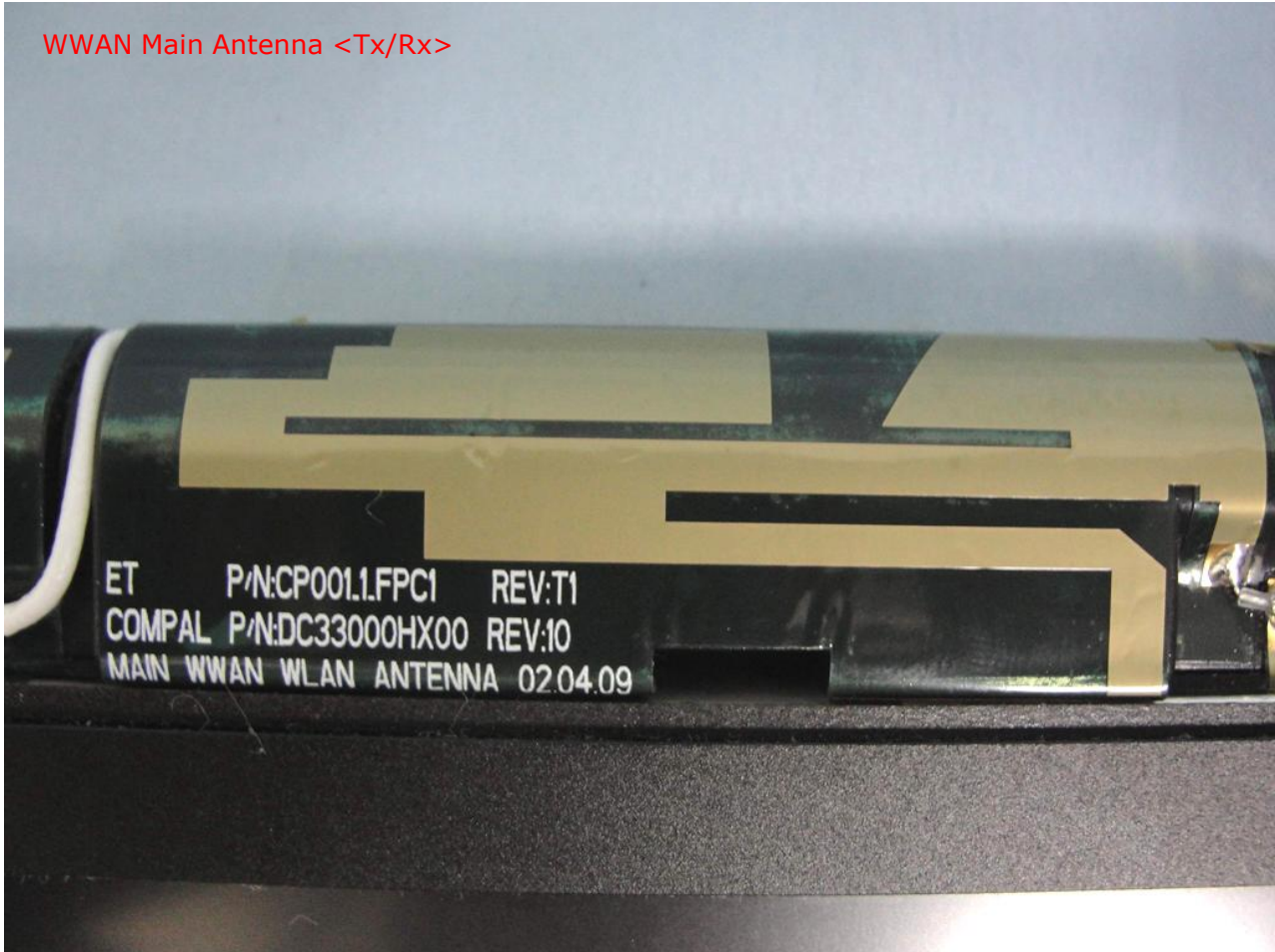






Brand Name: Motion Computing Incorporated / Model Name: T008

WWAN Main Antenna <Tx/Rx>



Brand Name: Motion Computing Incorporated / Model Name: T008

WWAN Aux. Antenna <Rx only>



Brand Name: Motion Computing Incorporated / Model Name: T008

WLAN Main Antenna 1 <Tx/Rx>



Brand Name: Motion Computing Incorporated / Model Name: T008

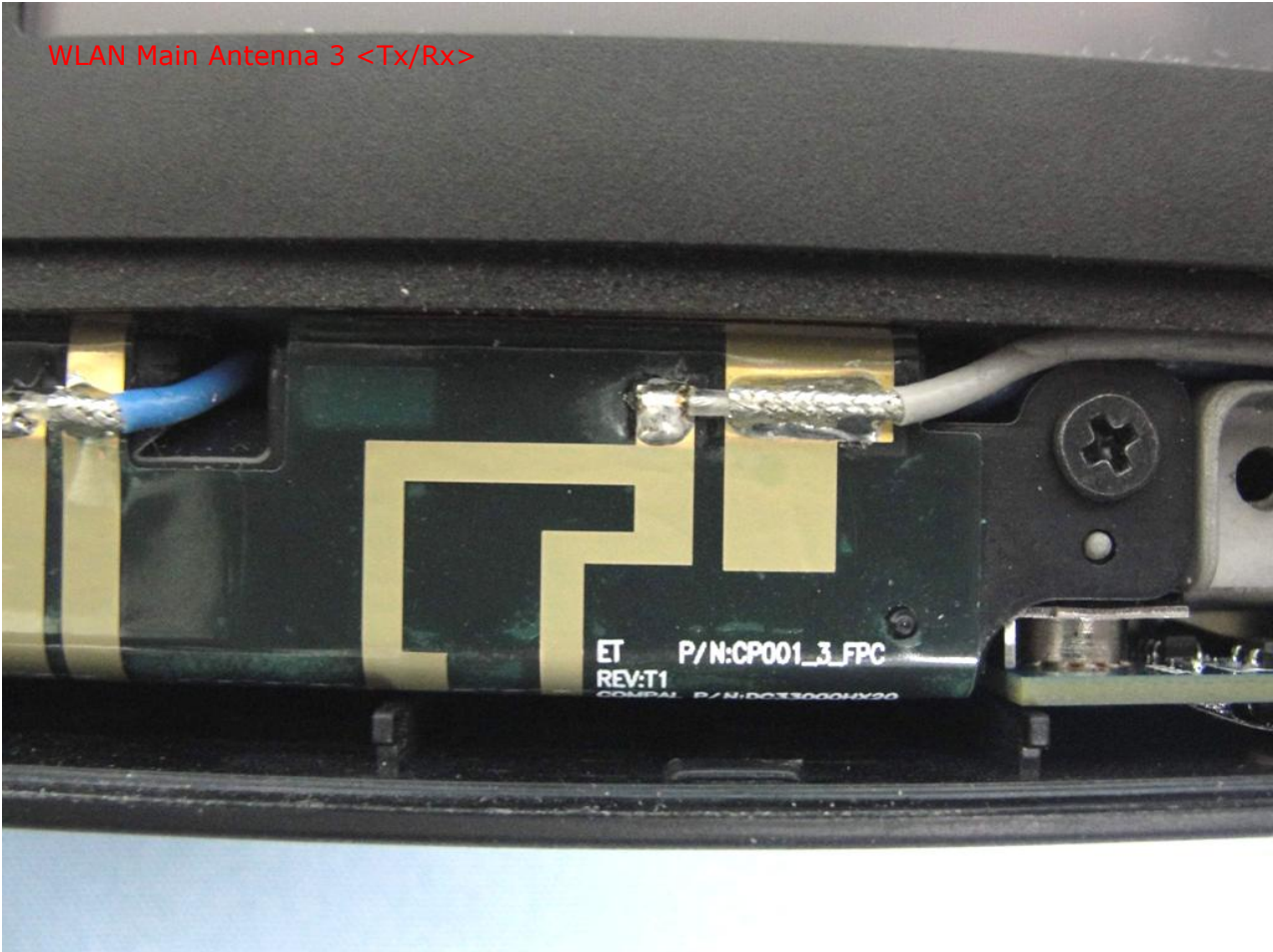
WLAN Main Antenna 2 <Tx/Rx>





Brand Name: Motion Computing Incorporated / Model Name: T008

WLAN Main Antenna 3 <Tx/Rx>



Brand Name: Motion Computing Incorporated / Model Name: T008

Bluetooth Antenna <Tx/Rx>





## Appendix B. Setup Photographs

### <Conducted Emission>

Front View



Rear View



Side View



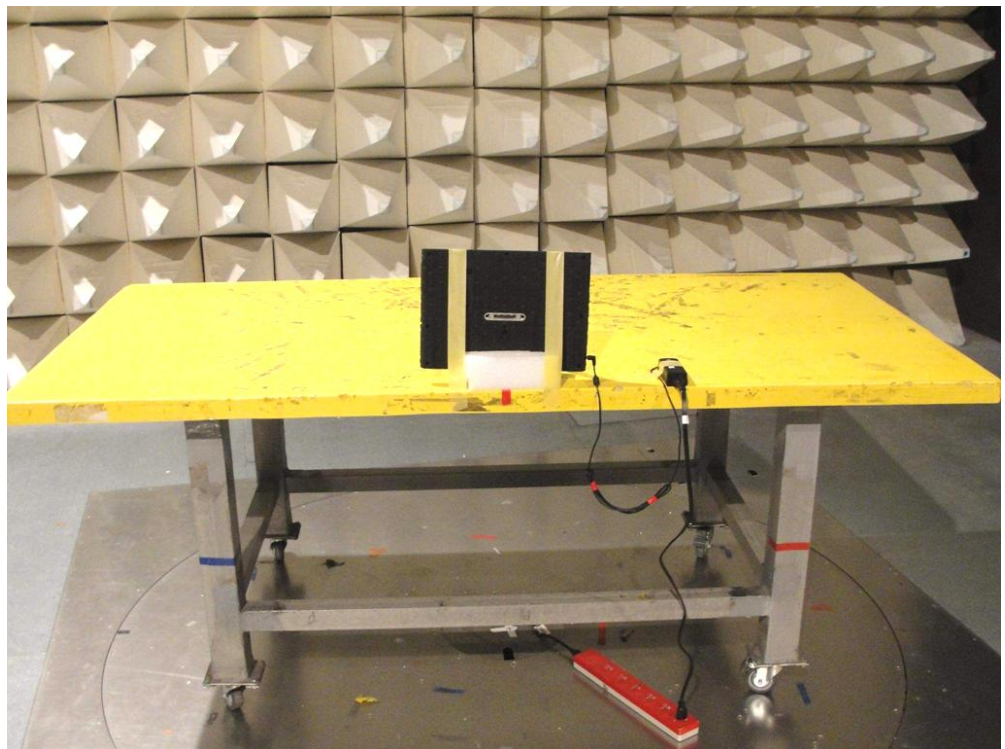


## &lt;Radiated Emission&gt;

Front View



Rear View



Remote View

