



Radio Test Report

Report No.: STS2603146W04

Issued for

Hot Pepper Mobile Inc.

350 10th Ave 1000 Ste San Diego California United States
92101-8705

Product Name: Smart Phone

Brand Name: Hot pepper

Model Name: HPPH88L

Series Model(s): N/A

FCC ID: 2A33N-L67B

Test Standards: FCC Part15.407

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Hot Pepper Mobile Inc.
Address: 350 10th Ave 1000 Ste San Diego California United States
92101-8705
Manufacturer's Name: Hot Pepper Mobile Inc.
Address: 350 10th Ave 1000 Ste San Diego California United States
92101-8705

Product Description

Product Name: Smart Phone
Brand Name: Hot pepper
Model Name: HPPH88L
Series Model(s): N/A

Test Standards: FCC Part15.407

Test Procedure ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item: 18 Mar. 2026
Date (s) of performance of tests: 18 Mar. 2026 ~ 24 Mar. 2026
Date of Issue: 24 Mar. 2026
Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	22 Aug. 2025	STS2508081W04	ALL	Initial Issue
01	24 Mar. 2026	STS2603146W04	ALL	Changed the inductor

Note: Only Changed the inductor, Updated the radiation emission data and AC conducted emission, other data are taken from the original report.



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

§ 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	N/A
15.407(a)	Maximum Conducted Output Power	N/A
15.407(b)/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	N/A
15.407 (c)	Automatically Discontinue Transmission	N/A
15.203/15.204	Antenna Requirement	PASS

Note:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$
10	Power Spectral Density, conducted	$\pm 1.214\text{dB}$
11	Duty Cycle	$\pm 3.2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart Phone	
Brand Name	Hot pepper	
Model Name	HPPH88L	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is Smart Phone	
	Operation Frequency:	IEEE 802.11a/ n(HT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40): 5.190GHz-5.230GHz
		IEEE 802.11a/ n(HT20):5.260GHz-5.320GHz IEEE 802.11 n(HT40): 5.270GHz-5.310GHz
		IEEE 802.11a/ n(HT20):5.500Gz-5.700GHz IEEE 802.11 n(HT40):5.510GHz-5.670GHz
		IEEE 802.11a/ n(HT20):5.745GHz-5.825GHz IEEE 802.11a/ n(HT40):5.755GHz-5.795GHz
	Modulation Type:	802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM
	Antenna Type:	PIFA
	Antenna Gain:	2.3dBi
	Max.Output Power(Conducted):	13.39 dBm
More details of EUT technical specification, please refer to the User Manual.		
Test Channel	Please refer to the Note 3.	
Power Rating	Input: DC 5V 1A	
Adapter	Model: M050100-S37USVU Brand: N/A Input: 100-240VAC-50/60Hz 0.5A Output: DC 5V 1A	
Battery	Model: HLP2409G Brand: N/A Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 3000mAh	
Hardware version number	P1	
Software version number	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note

- For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- The antenna details in this report are based on the manufacturer provided antenna specification documents and apply only to the tested sample identified herein.
Any discrepancies in the antenna information may affect the accuracy of the test results, and the customer assumes responsibility for any related issues.

3.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.500GHz-5.720GHz	
Channel	Frequency	Channel	Frequency
36	5180	100	5500
38	5190	102	5510
40	5200	110	5550
46	5230	116	5580
48	5240	134	5670
		140	5700
5.260GHz-5.320GHz			
Channel	Frequency		
52	5260		
54	5270		
60	5300		
62	5310		
64	5320		
5.745GHz-5.825GHz			
Channel	Frequency		
149	5745		
151	5755		
157	5785		
159	5795		
165	5825		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

5GHz:

For 802.11a/n(HT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	52	5260
40	5200	60	5300
48	5240	64	5320
For 802.11a/n(HT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
100	5500	149	5745
116	5580	157	5785
140	5700	165	5825
For 802.11 n(HT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	54	5270
46	5230	62	5310
For 802.11 n(HT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
102	5510	151	5755
110	5550	159	5795
134	5670		

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH100&CH116&CH140	6 Mbps
Mode 4	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 5	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 6	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 7	TX IEEE 802.11n HT20 CH100&CH116&CH140	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 9	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH102&CH110&CH134	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH151&CH159	MCS 0

Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13: Keeping TX + WLAN Link

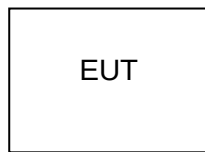
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

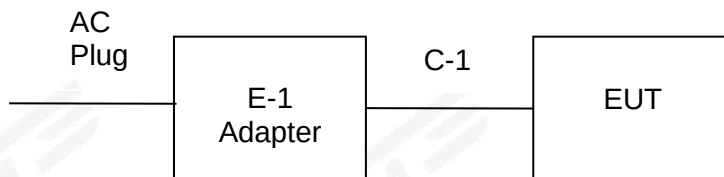
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	2.3	14	Engineering mode
		802.11n(HT20)		14	
		802.11n(HT40)		14	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-2A (5250MHz-5350MHz)	802.11a	2.3	14	Engineering mode
		802.11n(HT20)		14	
		802.11n(HT40)		14	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-2C (5470MHz-5725MHz)	802.11a	2.3	14	Engineering mode
		802.11n(HT20)		14	
		802.11n(HT40)		14	
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5895MHz)	802.11a	2.3	14	Engineering mode
		802.11n(HT20)		14	
		802.11n(HT40)		14	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	ZTC	NB-A515A	N/A
C-1	USB Cable	ZTC	NB-A515A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-1	Shielded	NO	150cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.6 EQUIPMENTS LIST

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.03.04	2027.03.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Band 5.1G-5.8G Filter	HX MICROWAVE	HXLBQ-DZA62	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENG FENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

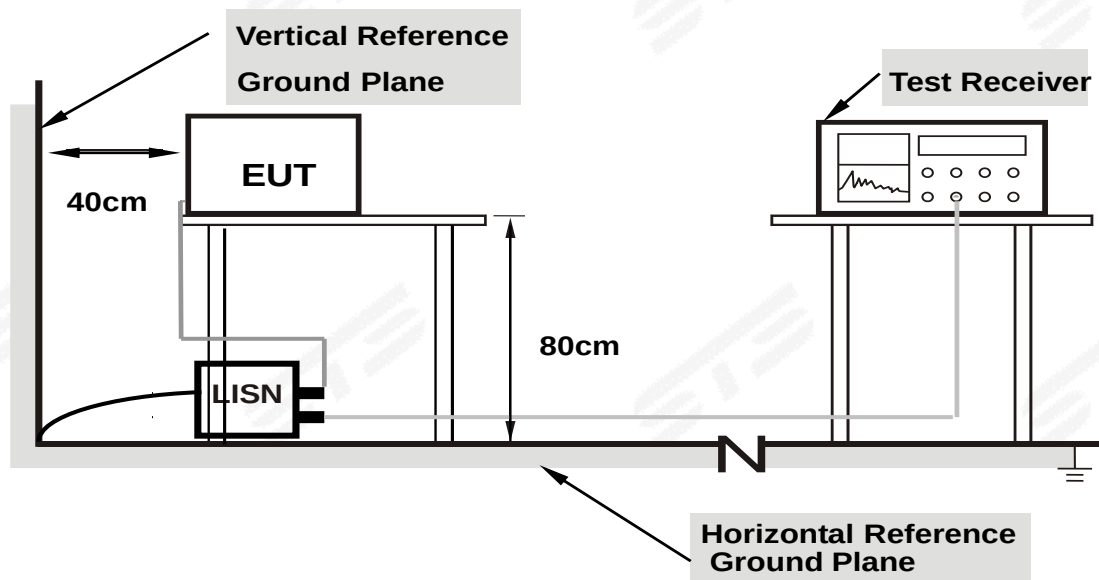
3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

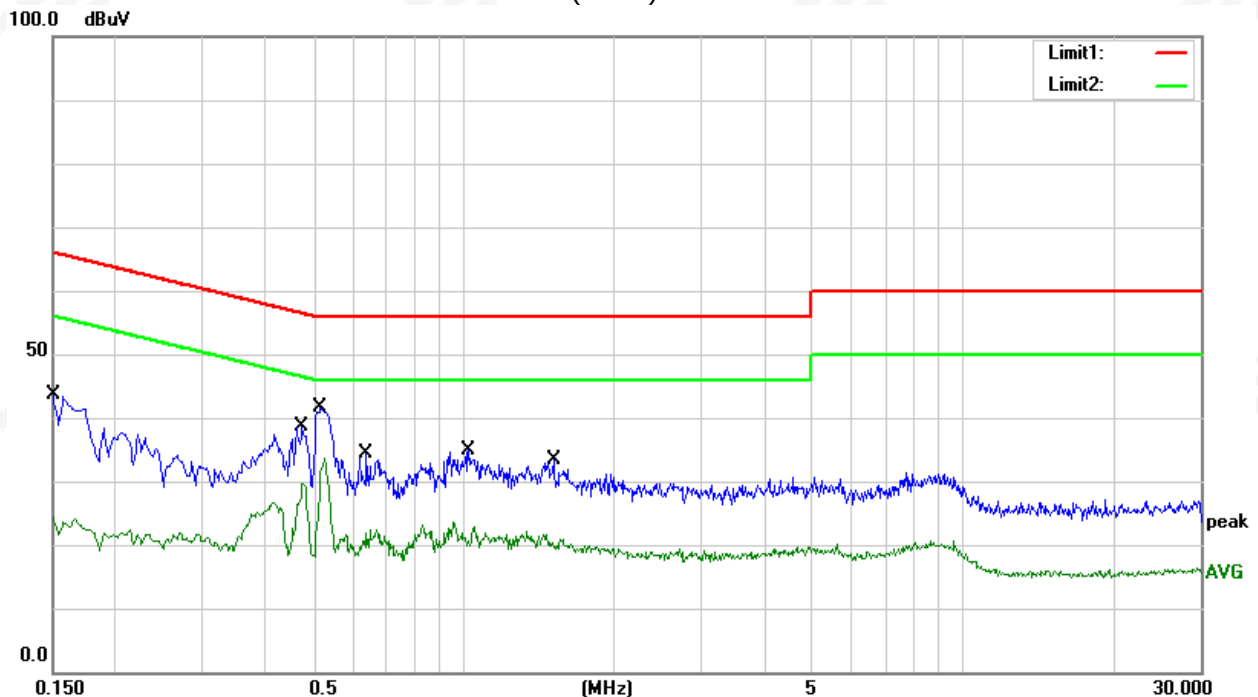
3.1.6 TEST RESULTS

Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	24.35	19.38	43.73	66.00	-22.27	QP
2	0.1500	4.78	19.38	24.16	56.00	-31.84	AVG
3	0.4740	19.14	19.39	38.53	56.44	-17.91	QP
4	0.4740	10.29	19.39	29.68	46.44	-16.76	AVG
5	0.5180	22.23	19.40	41.63	56.00	-14.37	QP
6	0.5180	14.34	19.40	33.74	46.00	-12.26	AVG
7	0.6380	15.09	19.37	34.46	56.00	-21.54	QP
8	0.6380	3.13	19.37	22.50	46.00	-23.50	AVG
9	1.0260	15.42	19.35	34.77	56.00	-21.23	QP
10	1.0260	4.31	19.35	23.66	46.00	-22.34	AVG
11	1.5180	14.04	19.35	33.39	56.00	-22.61	QP
12	1.5180	2.83	19.35	22.18	46.00	-23.82	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



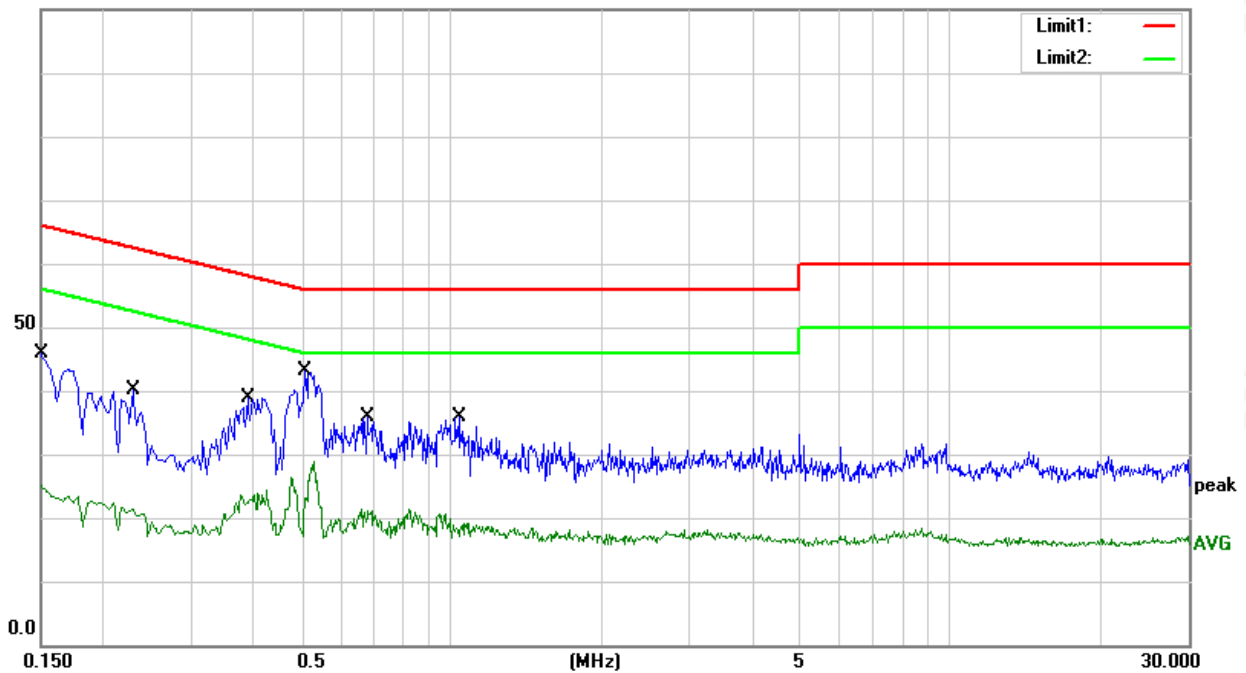
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	26.46	19.42	45.88	66.00	-20.12	QP
2	0.1500	5.67	19.42	25.09	56.00	-30.91	AVG
3	0.2300	20.67	19.38	40.05	62.45	-22.40	QP
4	0.2300	2.03	19.38	21.41	52.45	-31.04	AVG
5	0.3900	19.48	19.36	38.84	58.06	-19.22	QP
6	0.3900	7.01	19.36	26.37	48.06	-21.69	AVG
7	0.5100	23.82	19.34	43.16	56.00	-12.84	QP
8	0.5100	9.50	19.34	28.84	46.00	-17.16	AVG
9	0.6780	16.57	19.40	35.97	56.00	-20.03	QP
10	0.6780	1.86	19.40	21.26	46.00	-24.74	AVG
11	1.0340	16.49	19.39	35.88	56.00	-20.12	QP
12	1.0340	1.97	19.39	21.36	46.00	-24.64	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



3.2 RADIATED EMISSION AND MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (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 e.i.r.p. 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 e.i.r.p. of -27 dBm/MHz.
- (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 e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

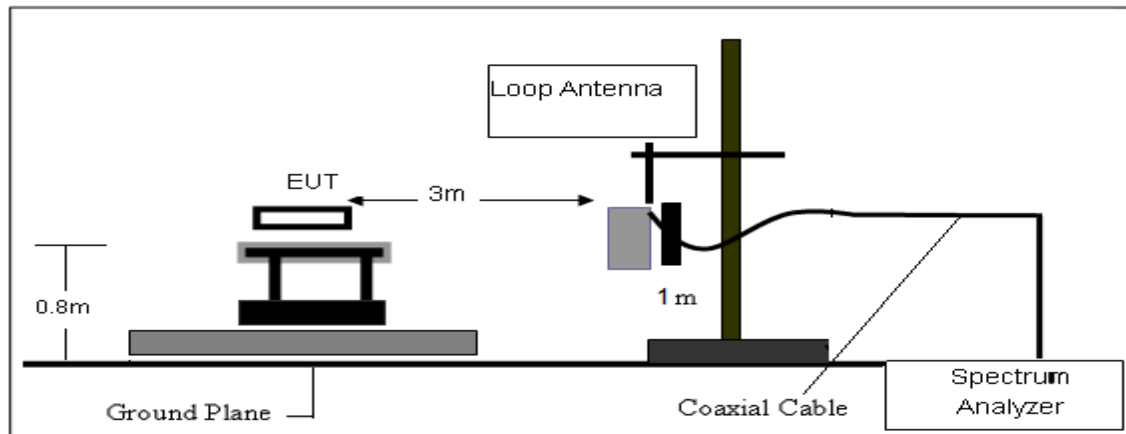
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

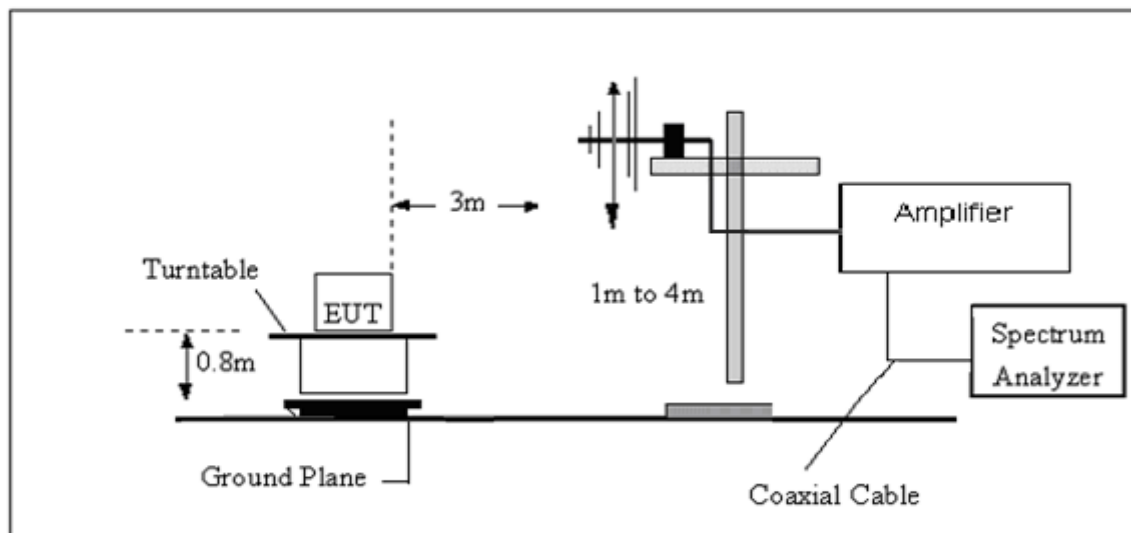
No deviation

3.2.4 TEST SETUP

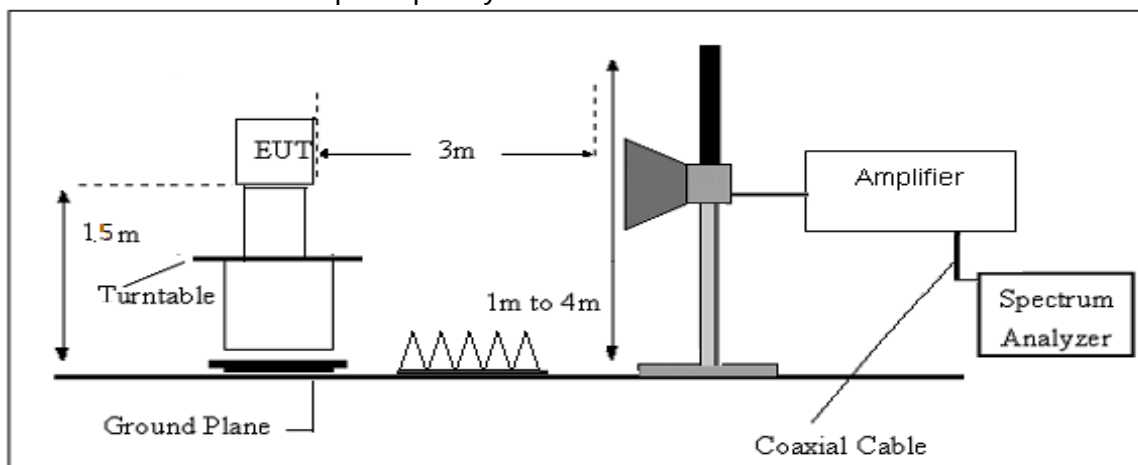
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = AF + CL - AG$$

3.2.7 TEST RESULTS (Between 9KHz – 30 MHz)

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Polarization :	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

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

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

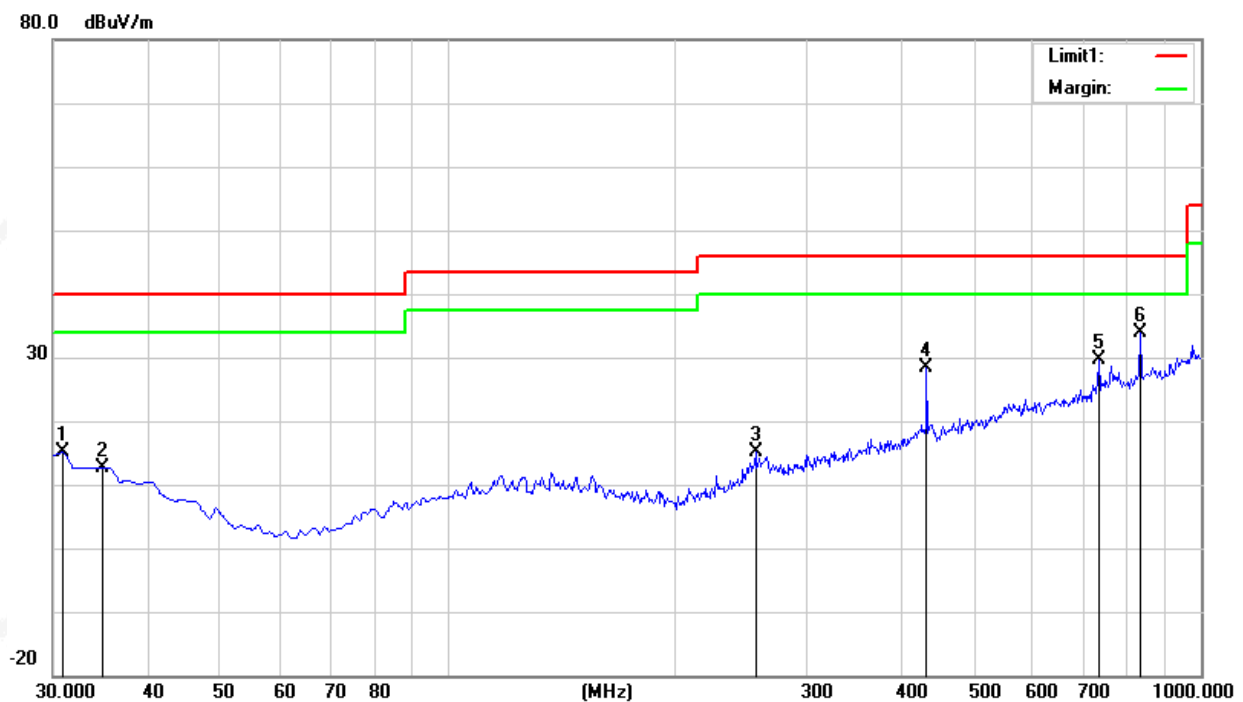
3.2.8 TEST RESULTS (Between 30MHz – 1GHz)

Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.7V	Polarization :	Horizontal
Test Mode	Mode 1~12(Mode 12 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	28.49	-13.35	15.14	40.00	-24.86	peak
2	34.8823	27.89	-15.36	12.53	40.00	-27.47	peak
3	256.9800	30.22	-15.13	15.09	46.00	-30.91	peak
4	433.5200	38.49	-10.13	28.36	46.00	-17.64	peak
5	733.2500	32.00	-2.35	29.65	46.00	-16.35	peak
6	831.2200	34.66	-0.70	33.96	46.00	-12.04	peak

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



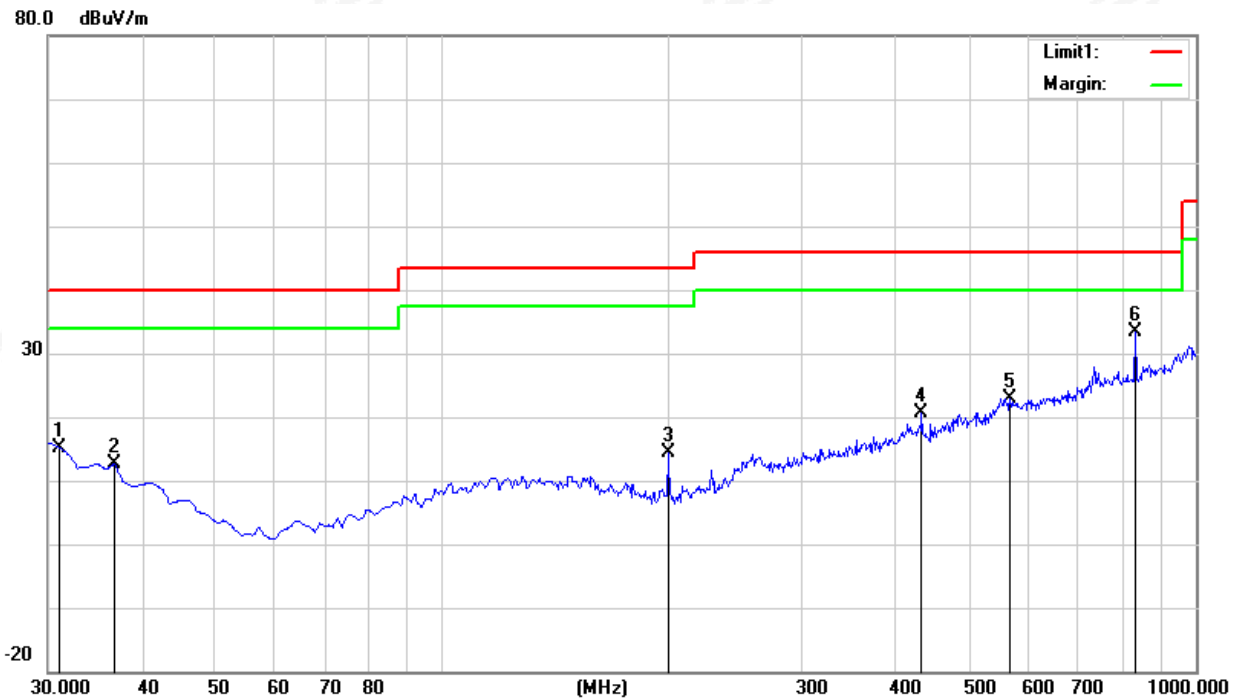
Temperature	23.4℃	Relative Humidity:	60%
Test Voltage	DC 3.7V	Polarization :	Vertical
Test Mode	Mode 1~12(Mode 12 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.0706	28.56	-13.41	15.15	40.00	-24.85	peak
2	36.7900	29.02	-16.39	12.63	40.00	-27.37	peak
3	199.7500	35.45	-21.11	14.34	43.50	-29.16	peak
4	433.5200	30.65	-10.13	20.52	46.00	-25.48	peak
5	568.3500	28.46	-5.58	22.88	46.00	-23.12	peak
6	831.2200	34.18	-0.70	33.48	46.00	-12.52	peak

Remark:

3. Margin = Result (Result =Reading + Factor)–Limit

4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





3.2.8 TEST RESULTS (Above 1000 MHz)

U-NII-1 5150-5250MHz

U-NII 1(5.15-5.25) GHz										
Frequency (MHz)	Reading	Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limit (dBuV/m)	Margin	Detector	Comment
	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)		(dB)		
Low Channel										
3248.14	43.98	44.70	6.70	28.20	-9.80	34.18	68.20	-34.02	Pk	Vertical
3248.14	40.75	44.70	6.70	28.20	-9.80	30.95	54.00	-23.05	AV	Vertical
3263.35	45.03	44.70	6.70	28.20	-9.80	35.23	74.00	-38.77	Pk	Horizontal
3263.35	41.95	44.70	6.70	28.20	-9.80	32.15	54.00	-21.85	AV	Horizontal
3994.15	39.32	44.20	7.90	29.70	-6.60	32.72	74.00	-41.28	Pk	Vertical
3994.15	36.47	44.20	7.90	29.70	-6.60	29.87	54.00	-24.13	AV	Vertical
3983.47	39.42	44.20	7.90	29.70	-6.60	32.82	74.00	-41.18	Pk	Horizontal
3983.47	36.88	44.20	7.90	29.70	-6.60	30.28	54.00	-23.72	AV	Horizontal
7221.11	36.76	43.50	11.40	35.50	3.40	40.16	68.20	-28.04	Pk	Vertical
7221.11	34.51	43.50	11.40	35.50	3.40	37.91	54.00	-16.09	AV	Vertical
7223.23	37.68	43.50	11.40	35.50	3.40	41.08	68.20	-27.12	Pk	Horizontal
7223.23	34.02	43.50	11.40	35.50	3.40	37.42	54.00	-16.58	AV	Horizontal
10360.24	40.17	44.50	13.80	38.80	8.10	48.27	68.20	-19.93	Pk	Vertical
10360.24	36.46	44.50	13.80	38.80	8.10	44.56	54.00	-9.44	AV	Vertical
10360.14	38.71	44.50	13.80	38.80	8.10	46.81	68.20	-21.39	Pk	Horizontal
10360.14	36.86	44.50	13.80	38.80	8.10	44.96	54.00	-9.04	AV	Horizontal
11035.72	33.20	43.60	14.30	39.50	10.20	43.40	74.00	-30.60	Pk	Vertical
11035.72	31.10	43.60	14.30	39.50	10.20	41.30	54.00	-12.70	AV	Vertical
11032.95	33.31	43.60	14.30	39.50	10.20	43.51	74.00	-30.49	Pk	Horizontal
11032.95	30.63	43.60	14.30	39.50	10.20	40.83	54.00	-13.17	AV	Horizontal
13288.10	32.77	42.60	15.90	38.90	12.20	44.97	74.00	-29.03	Pk	Vertical
13288.10	29.74	42.60	15.90	38.90	12.20	41.94	54.00	-12.06	AV	Vertical
13297.71	32.53	42.60	15.90	38.90	12.20	44.73	74.00	-29.27	Pk	Horizontal
13297.71	29.24	42.60	15.90	38.90	12.20	41.44	54.00	-12.56	AV	Horizontal
Mid Channel										
3248.07	44.13	44.70	6.70	28.20	-9.80	34.33	68.20	-33.87	Pk	Vertical
3248.07	41.93	44.70	6.70	28.20	-9.80	32.13	54.00	-21.87	AV	Vertical
3257.38	45.19	44.70	6.70	28.20	-9.80	35.39	68.20	-32.81	Pk	Horizontal
3257.38	40.75	44.70	6.70	28.20	-9.80	30.95	54.00	-23.05	AV	Horizontal
3997.08	39.55	44.20	7.90	29.70	-6.60	32.95	74.00	-41.05	Pk	Vertical
3997.08	36.04	44.20	7.90	29.70	-6.60	29.44	54.00	-24.56	AV	Vertical
3998.32	40.00	44.20	7.90	29.70	-6.60	33.40	74.00	-40.60	Pk	Horizontal
3998.32	35.81	44.20	7.90	29.70	-6.60	29.21	54.00	-24.79	AV	Horizontal
7231.85	37.10	43.50	11.40	35.50	3.40	40.50	68.20	-27.70	Pk	Vertical
7231.85	34.65	43.50	11.40	35.50	3.40	38.05	54.00	-15.95	AV	Vertical
7224.20	36.72	43.50	11.40	35.50	3.40	40.12	68.20	-28.08	Pk	Horizontal
7224.20	33.90	43.50	11.40	35.50	3.40	37.30	54.00	-16.70	AV	Horizontal
10400.03	38.81	44.50	13.80	38.80	8.10	46.91	68.20	-21.29	Pk	Vertical
10400.03	36.05	44.50	13.80	38.80	8.10	44.15	54.00	-9.85	AV	Vertical
10400.12	39.51	44.50	13.80	38.80	8.10	47.61	68.20	-20.59	Pk	Horizontal
10400.12	36.69	44.50	13.80	38.80	8.10	44.79	54.00	-9.21	AV	Horizontal
11019.43	34.10	43.60	14.30	39.50	10.20	44.30	74.00	-29.70	Pk	Vertical
11019.43	30.51	43.60	14.30	39.50	10.20	40.71	54.00	-13.29	AV	Vertical
11026.42	33.81	43.60	14.30	39.50	10.20	44.01	74.00	-29.99	Pk	Horizontal
11026.42	29.88	43.60	14.30	39.50	10.20	40.08	54.00	-13.92	AV	Horizontal
13288.45	32.61	42.60	15.90	38.90	12.20	44.81	74.00	-29.19	Pk	Vertical
13288.45	28.82	42.60	15.90	38.90	12.20	41.02	54.00	-12.98	AV	Vertical
13291.40	32.59	42.60	15.90	38.90	12.20	44.79	74.00	-29.21	Pk	Horizontal
13291.40	29.87	42.60	15.90	38.90	12.20	42.07	54.00	-11.93	AV	Horizontal



High Channel										
3246.16	44.89	44.70	6.70	28.20	-9.80	35.09	68.20	-33.11	Pk	Vertical
3246.16	40.96	44.70	6.70	28.20	-9.80	31.16	54.00	-22.84	AV	Vertical
3263.83	44.71	44.70	6.70	28.20	-9.80	34.91	74.00	-39.09	Pk	Horizontal
3263.83	41.51	44.70	6.70	28.20	-9.80	31.71	54.00	-22.29	AV	Horizontal
3991.09	39.30	44.20	7.90	29.70	-6.60	32.70	74.00	-41.30	Pk	Vertical
3991.09	36.12	44.20	7.90	29.70	-6.60	29.52	54.00	-24.48	AV	Vertical
3980.29	39.09	44.20	7.90	29.70	-6.60	32.49	74.00	-41.51	Pk	Horizontal
3980.29	35.92	44.20	7.90	29.70	-6.60	29.32	54.00	-24.68	AV	Horizontal
7224.58	36.62	43.50	11.40	35.50	3.40	40.02	68.20	-28.18	Pk	Vertical
7224.58	34.51	43.50	11.40	35.50	3.40	37.91	54.00	-16.09	AV	Vertical
7234.36	37.49	43.50	11.40	35.50	3.40	40.89	68.20	-27.31	Pk	Horizontal
7234.36	33.67	43.50	11.40	35.50	3.40	37.07	54.00	-16.93	AV	Horizontal
10479.93	39.83	44.50	13.80	38.80	8.10	47.93	68.20	-20.27	Pk	Vertical
10479.93	36.49	44.50	13.80	38.80	8.10	44.59	54.00	-9.41	AV	Vertical
10479.97	40.17	44.50	13.80	38.80	8.10	48.27	68.20	-19.93	Pk	Horizontal
10479.97	36.88	44.50	13.80	38.80	8.10	44.98	54.00	-9.02	AV	Horizontal
11030.20	32.79	43.60	14.30	39.50	10.20	42.99	74.00	-31.01	Pk	Vertical
11030.20	30.42	43.60	14.30	39.50	10.20	40.62	54.00	-13.38	AV	Vertical
11021.88	33.00	43.60	14.30	39.50	10.20	43.20	74.00	-30.80	Pk	Horizontal
11021.88	29.87	43.60	14.30	39.50	10.20	40.07	54.00	-13.93	AV	Horizontal
13288.04	32.99	42.60	15.90	38.90	12.20	45.19	74.00	-28.81	Pk	Vertical
13288.04	29.16	42.60	15.90	38.90	12.20	41.36	54.00	-12.64	AV	Vertical
13296.54	32.14	42.60	15.90	38.90	12.20	44.34	74.00	-29.66	Pk	Horizontal
13296.54	29.79	42.60	15.90	38.90	12.20	41.99	54.00	-12.01	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



U-NII-2A 5250-5350MHz

U-NII 2A(5.25-5.35) GHz										
Frequency (MHz)	Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limit (dBuV/m)	Margin	Detector	Comment
	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBuV/m)		(dB)		
Low Channel										
3246.05	44.84	44.70	6.70	28.20	-9.80	35.04	68.20	-33.16	Pk	Vertical
3246.05	41.23	44.70	6.70	28.20	-9.80	31.43	54.00	-22.57	AV	Vertical
3249.60	45.07	44.70	6.70	28.20	-9.80	35.27	68.20	-32.93	Pk	Horizontal
3249.60	42.07	44.70	6.70	28.20	-9.80	32.27	54.00	-21.73	AV	Horizontal
3983.43	38.69	44.20	7.90	29.70	-6.60	32.09	74.00	-41.91	Pk	Vertical
3983.43	36.64	44.20	7.90	29.70	-6.60	30.04	54.00	-23.96	AV	Vertical
3993.69	38.71	44.20	7.90	29.70	-6.60	32.11	74.00	-41.89	Pk	Horizontal
3993.69	36.04	44.20	7.90	29.70	-6.60	29.44	54.00	-24.56	AV	Horizontal
7225.33	37.56	43.50	11.40	35.50	3.40	40.96	68.20	-27.24	Pk	Vertical
7225.33	33.85	43.50	11.40	35.50	3.40	37.25	54.00	-16.75	AV	Vertical
7223.85	37.58	43.50	11.40	35.50	3.40	40.98	68.20	-27.22	Pk	Horizontal
7223.85	33.87	43.50	11.40	35.50	3.40	37.27	54.00	-16.73	AV	Horizontal
10520.30	39.99	44.50	13.90	38.80	8.20	48.19	68.20	-20.01	Pk	Vertical
10520.30	35.83	44.50	13.90	38.80	8.20	44.03	54.00	-9.97	AV	Vertical
10520.09	39.06	44.50	13.90	38.80	8.20	47.26	68.20	-20.94	Pk	Horizontal
10520.09	36.07	44.50	13.90	38.80	8.20	44.27	54.00	-9.73	AV	Horizontal
11033.72	33.97	43.60	14.30	39.50	10.20	44.17	74.00	-29.83	Pk	Vertical
11033.72	29.98	43.60	14.30	39.50	10.20	40.18	54.00	-13.82	AV	Vertical
11021.24	33.30	43.60	14.30	39.50	10.20	43.50	74.00	-30.50	Pk	Horizontal
11021.24	30.11	43.60	14.30	39.50	10.20	40.31	54.00	-13.69	AV	Horizontal
13288.30	32.93	42.60	15.90	38.90	12.20	45.13	74.00	-28.87	Pk	Vertical
13288.30	28.63	42.60	15.90	38.90	12.20	40.83	54.00	-13.17	AV	Vertical
13284.87	32.27	42.60	15.90	38.90	12.20	44.47	74.00	-29.53	Pk	Horizontal
13284.87	29.80	42.60	15.90	38.90	12.20	42.00	54.00	-12.00	AV	Horizontal
Mid Channel										
3246.40	44.61	44.70	6.70	28.20	-9.80	34.81	68.20	-33.39	Pk	Vertical
3246.40	41.86	44.70	6.70	28.20	-9.80	32.06	54.00	-21.94	AV	Vertical
3249.84	44.26	44.70	6.70	28.20	-9.80	34.46	68.20	-33.74	Pk	Horizontal
3249.84	41.73	44.70	6.70	28.20	-9.80	31.93	54.00	-22.07	AV	Horizontal
3983.26	39.71	44.20	7.90	29.70	-6.60	33.11	74.00	-40.89	Pk	Vertical
3983.26	36.10	44.20	7.90	29.70	-6.60	29.50	54.00	-24.50	AV	Vertical
3985.31	40.05	44.20	7.90	29.70	-6.60	33.45	74.00	-40.55	Pk	Horizontal
3985.31	36.20	44.20	7.90	29.70	-6.60	29.60	54.00	-24.40	AV	Horizontal
7217.45	37.42	43.50	11.40	35.50	3.40	40.82	68.20	-27.38	Pk	Vertical
7217.45	33.95	43.50	11.40	35.50	3.40	37.35	54.00	-16.65	AV	Vertical
7224.97	36.56	43.50	11.40	35.50	3.40	39.96	68.20	-28.24	Pk	Horizontal
7224.97	34.44	43.50	11.40	35.50	3.40	37.84	54.00	-16.16	AV	Horizontal
10600.06	39.53	44.50	13.80	38.80	8.10	47.63	74.00	-26.37	Pk	Vertical
10600.06	36.01	44.50	13.80	38.80	8.10	44.11	54.00	-9.89	AV	Vertical
10600.38	38.81	44.50	13.80	38.80	8.10	46.91	74.00	-27.09	Pk	Horizontal
10600.38	36.01	44.50	13.80	38.80	8.10	44.11	54.00	-9.89	AV	Horizontal
11017.14	32.80	43.60	14.30	39.50	10.20	43.00	74.00	-31.00	Pk	Vertical
11017.14	29.89	43.60	14.30	39.50	10.20	40.09	54.00	-13.91	AV	Vertical
11017.64	33.31	43.60	14.30	39.50	10.20	43.51	74.00	-30.49	Pk	Horizontal
11017.64	31.14	43.60	14.30	39.50	10.20	41.34	54.00	-12.66	AV	Horizontal
13291.91	32.13	42.60	15.90	38.90	12.20	44.33	74.00	-29.67	Pk	Vertical
13291.91	29.26	42.60	15.90	38.90	12.20	41.46	54.00	-12.54	AV	Vertical
13284.65	32.35	42.60	15.90	38.90	12.20	44.55	74.00	-29.45	Pk	Horizontal
13284.65	29.74	42.60	15.90	38.90	12.20	41.94	54.00	-12.06	AV	Horizontal



High Channel										
3259.69	44.59	44.70	6.70	28.20	-9.80	34.79	68.20	-33.41	Pk	Vertical
3259.69	41.16	44.70	6.70	28.20	-9.80	31.36	54.00	-22.64	AV	Vertical
3264.20	44.26	44.70	6.70	28.20	-9.80	34.46	74.00	-39.54	Pk	Horizontal
3264.20	41.28	44.70	6.70	28.20	-9.80	31.48	54.00	-22.52	AV	Horizontal
3994.64	39.31	44.20	7.90	29.70	-6.60	32.71	74.00	-41.29	Pk	Vertical
3994.64	36.62	44.20	7.90	29.70	-6.60	30.02	54.00	-23.98	AV	Vertical
3994.32	38.70	44.20	7.90	29.70	-6.60	32.10	74.00	-41.90	Pk	Horizontal
3994.32	36.26	44.20	7.90	29.70	-6.60	29.66	54.00	-24.34	AV	Horizontal
7226.75	37.80	43.50	11.40	35.50	3.40	41.20	68.20	-27.00	Pk	Vertical
7226.75	34.42	43.50	11.40	35.50	3.40	37.82	54.00	-16.18	AV	Vertical
7227.27	37.06	43.50	11.40	35.50	3.40	40.46	68.20	-27.74	Pk	Horizontal
7227.27	33.59	43.50	11.40	35.50	3.40	36.99	54.00	-17.01	AV	Horizontal
10640.12	39.68	44.50	13.80	38.80	8.10	47.78	74.00	-26.22	Pk	Vertical
10640.12	36.59	44.50	13.80	38.80	8.10	44.69	54.00	-9.31	AV	Vertical
10640.01	39.04	44.50	13.80	38.80	8.10	47.14	74.00	-26.86	Pk	Horizontal
10640.01	36.93	44.50	13.80	38.80	8.10	45.03	54.00	-8.97	AV	Horizontal
11033.86	33.44	43.60	14.30	39.50	10.20	43.64	74.00	-30.36	Pk	Vertical
11033.86	30.18	43.60	14.30	39.50	10.20	40.38	54.00	-13.62	AV	Vertical
11030.72	33.54	43.60	14.30	39.50	10.20	43.74	74.00	-30.26	Pk	Horizontal
11030.72	30.59	43.60	14.30	39.50	10.20	40.79	54.00	-13.21	AV	Horizontal
13290.01	31.96	42.70	18.00	37.10	12.40	44.36	74.00	-29.64	Pk	Vertical
13290.01	29.96	42.70	18.00	37.10	12.40	42.36	54.00	-11.64	AV	Vertical
13289.63	31.63	42.70	18.00	37.10	12.40	44.03	74.00	-29.97	Pk	Horizontal
13289.63	29.08	42.70	18.00	37.10	12.40	41.48	54.00	-12.52	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



U-NII-2C 5470-5725MHz

U-NII 2C(5.47-5.725) GHz										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel										
3252.96	44.23	44.70	6.70	28.20	-9.80	34.43	68.20	-33.77	Pk	Vertical
3252.96	41.41	44.70	6.70	28.20	-9.80	31.61	54.00	-22.39	AV	Vertical
3245.72	43.94	44.70	6.70	28.20	-9.80	34.14	68.20	-34.06	Pk	Horizontal
3245.72	42.00	44.70	6.70	28.20	-9.80	32.20	54.00	-21.80	AV	Horizontal
3995.50	39.54	44.20	7.90	29.70	-6.60	32.94	74.00	-41.06	Pk	Vertical
3995.50	36.07	44.20	7.90	29.70	-6.60	29.47	54.00	-24.53	AV	Vertical
3997.26	40.05	44.20	7.90	29.70	-6.60	33.45	74.00	-40.55	Pk	Horizontal
3997.26	35.77	44.20	7.90	29.70	-6.60	29.17	54.00	-24.83	AV	Horizontal
7234.47	37.33	43.50	11.40	35.50	3.40	40.73	68.20	-27.47	Pk	Vertical
7234.47	33.97	43.50	11.40	35.50	3.40	37.37	54.00	-16.63	AV	Vertical
7228.10	37.75	43.50	11.40	35.50	3.40	41.15	68.20	-27.05	Pk	Horizontal
7228.10	33.71	43.50	11.40	35.50	3.40	37.11	54.00	-16.89	AV	Horizontal
10346.79	39.60	44.50	13.80	38.80	8.10	47.70	68.20	-20.50	Pk	Vertical
10346.79	36.00	44.50	13.80	38.80	8.10	44.10	54.00	-9.90	AV	Vertical
10349.62	39.04	44.50	13.80	38.80	8.10	47.14	68.20	-21.06	Pk	Horizontal
10349.62	37.12	44.50	13.80	38.80	8.10	45.22	54.00	-8.78	AV	Horizontal
10999.94	33.26	43.60	14.30	39.50	10.20	43.46	74.00	-30.54	Pk	Vertical
10999.94	29.98	43.60	14.30	39.50	10.20	40.18	54.00	-13.82	AV	Vertical
11000.32	33.54	43.60	14.30	39.50	10.20	43.74	74.00	-30.26	Pk	Horizontal
11000.32	30.49	43.60	14.30	39.50	10.20	40.69	54.00	-13.31	AV	Horizontal
13294.49	31.77	42.60	15.90	38.90	12.20	43.97	74.00	-30.03	Pk	Vertical
13294.49	29.73	42.60	15.90	38.90	12.20	41.93	54.00	-12.07	AV	Vertical
13293.30	32.51	42.60	15.90	38.90	12.20	44.71	74.00	-29.29	Pk	Horizontal
13293.30	29.05	42.60	15.90	38.90	12.20	41.25	54.00	-12.75	AV	Horizontal
Mid Channel										
3245.96	44.14	44.70	6.70	28.20	-9.80	34.34	68.20	-33.86	Pk	Vertical
3245.96	42.05	44.70	6.70	28.20	-9.80	32.25	54.00	-21.75	AV	Vertical
3255.42	44.18	44.70	6.70	28.20	-9.80	34.38	68.20	-33.82	Pk	Horizontal
3255.42	41.80	44.70	6.70	28.20	-9.80	32.00	54.00	-22.00	AV	Horizontal
3993.72	39.24	44.20	7.90	29.70	-6.60	32.64	74.00	-41.36	Pk	Vertical
3993.72	36.22	44.20	7.90	29.70	-6.60	29.62	54.00	-24.38	AV	Vertical
3988.37	38.72	44.20	7.90	29.70	-6.60	32.12	74.00	-41.88	Pk	Horizontal
3988.37	36.27	44.20	7.90	29.70	-6.60	29.67	54.00	-24.33	AV	Horizontal
7227.17	37.12	43.50	11.40	35.50	3.40	40.52	68.20	-27.68	Pk	Vertical
7227.17	34.05	43.50	11.40	35.50	3.40	37.45	54.00	-16.55	AV	Vertical
7233.31	37.06	43.50	11.40	35.50	3.40	40.46	68.20	-27.74	Pk	Horizontal
7233.31	34.28	43.50	11.40	35.50	3.40	37.68	54.00	-16.32	AV	Horizontal
10388.29	38.74	44.50	13.80	38.80	8.10	46.84	68.20	-21.36	Pk	Vertical
10388.29	35.70	44.50	13.80	38.80	8.10	43.80	54.00	-10.20	AV	Vertical
10387.31	39.79	44.50	13.80	38.80	8.10	47.89	68.20	-20.31	Pk	Horizontal
10387.31	36.80	44.50	13.80	38.80	8.10	44.90	54.00	-9.10	AV	Horizontal
11160.16	34.15	43.60	14.30	39.50	10.20	44.35	74.00	-29.65	Pk	Vertical
11160.16	30.08	43.60	14.30	39.50	10.20	40.28	54.00	-13.72	AV	Vertical
11159.98	33.37	43.60	14.30	39.50	10.20	43.57	74.00	-30.43	Pk	Horizontal
11159.98	30.05	43.60	14.30	39.50	10.20	40.25	54.00	-13.75	AV	Horizontal
13295.38	32.97	42.60	15.90	38.90	12.20	45.17	74.00	-28.83	Pk	Vertical
13295.38	29.67	42.60	15.90	38.90	12.20	41.87	54.00	-12.13	AV	Vertical
13290.42	32.50	42.60	15.90	38.90	12.20	44.70	74.00	-29.30	Pk	Horizontal
13290.42	29.24	42.60	15.90	38.90	12.20	41.44	54.00	-12.56	AV	Horizontal



High Channel										
3254.34	44.56	44.70	6.70	28.20	-9.80	34.76	68.20	-33.44	Pk	Vertical
3254.34	40.77	44.70	6.70	28.20	-9.80	30.97	54.00	-23.03	AV	Vertical
3252.89	44.32	44.70	6.70	28.20	-9.80	34.52	68.20	-33.68	Pk	Horizontal
3252.89	41.11	44.70	6.70	28.20	-9.80	31.31	54.00	-22.69	AV	Horizontal
3999.94	39.84	44.20	7.90	29.70	-6.60	33.24	74.00	-40.76	Pk	Vertical
3999.94	36.19	44.20	7.90	29.70	-6.60	29.59	54.00	-24.41	AV	Vertical
3987.95	39.25	44.20	7.90	29.70	-6.60	32.65	74.00	-41.35	Pk	Horizontal
3987.95	36.74	44.20	7.90	29.70	-6.60	30.14	54.00	-23.86	AV	Horizontal
7236.22	36.99	43.50	11.40	35.50	3.40	40.39	68.20	-27.81	Pk	Vertical
7236.22	34.15	43.50	11.40	35.50	3.40	37.55	54.00	-16.45	AV	Vertical
7228.54	37.56	43.50	11.40	35.50	3.40	40.96	68.20	-27.24	Pk	Horizontal
7228.54	34.18	43.50	11.40	35.50	3.40	37.58	54.00	-16.42	AV	Horizontal
10473.37	38.80	44.50	13.80	38.80	8.10	46.90	68.20	-21.30	Pk	Vertical
10473.37	36.69	44.50	13.80	38.80	8.10	44.79	54.00	-9.21	AV	Vertical
10466.73	39.78	44.50	13.80	38.80	8.10	47.88	68.20	-20.32	Pk	Horizontal
10466.73	35.75	44.50	13.80	38.80	8.10	43.85	54.00	-10.15	AV	Horizontal
11400.01	33.13	43.60	14.30	39.50	10.20	43.33	74.00	-30.67	Pk	Vertical
11400.01	30.46	43.60	14.30	39.50	10.20	40.66	54.00	-13.34	AV	Vertical
11400.23	33.46	43.60	14.30	39.50	10.20	43.66	74.00	-30.34	Pk	Horizontal
11400.23	29.68	43.60	14.30	39.50	10.20	39.88	54.00	-14.12	AV	Horizontal
13289.31	32.39	42.60	15.90	38.90	12.20	44.59	74.00	-29.41	Pk	Vertical
13289.31	29.12	42.60	15.90	38.90	12.20	41.32	54.00	-12.68	AV	Vertical
13291.66	32.79	42.60	15.90	38.90	12.20	44.99	74.00	-29.01	Pk	Horizontal
13291.66	28.85	42.60	15.90	38.90	12.20	41.05	54.00	-12.95	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



U-NII-3 (5.725-5.850) GHz

U-NII 3(5.725-5.85) GHz										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel										
3253.96	44.75	44.70	6.70	28.20	-9.80	34.95	68.20	-33.25	Pk	Vertical
3253.96	41.77	44.70	6.70	28.20	-9.80	31.97	54.00	-22.03	AV	Vertical
3255.22	43.82	44.70	6.70	28.20	-9.80	34.02	68.20	-34.18	Pk	Horizontal
3255.22	40.90	44.70	6.70	28.20	-9.80	31.10	54.00	-22.90	AV	Horizontal
3980.50	39.11	44.20	7.90	29.70	-6.60	32.51	74.00	-41.49	Pk	Vertical
3980.50	35.79	44.20	7.90	29.70	-6.60	29.19	54.00	-24.81	AV	Vertical
3985.94	39.45	44.20	7.90	29.70	-6.60	32.85	74.00	-41.15	Pk	Horizontal
3985.94	37.05	44.20	7.90	29.70	-6.60	30.45	54.00	-23.55	AV	Horizontal
7228.91	36.73	43.50	11.40	35.50	3.40	40.13	68.20	-28.07	Pk	Vertical
7228.91	33.64	43.50	11.40	35.50	3.40	37.04	54.00	-16.96	AV	Vertical
7222.49	36.63	43.50	11.40	35.50	3.40	40.03	68.20	-28.17	Pk	Horizontal
7222.49	33.68	43.50	11.40	35.50	3.40	37.08	54.00	-16.92	AV	Horizontal
10508.25	39.93	44.50	13.90	38.80	8.20	48.13	68.20	-20.07	Pk	Vertical
10508.25	35.68	44.50	13.90	38.80	8.20	43.88	54.00	-10.12	AV	Vertical
10501.05	40.08	44.50	13.90	38.80	8.20	48.28	68.20	-19.92	Pk	Horizontal
10501.05	36.43	44.50	13.90	38.80	8.20	44.63	54.00	-9.37	AV	Horizontal
11490.25	33.99	43.60	14.30	39.50	10.20	44.19	74.00	-29.81	Pk	Vertical
11490.25	29.83	43.60	14.30	39.50	10.20	40.03	54.00	-13.97	AV	Vertical
11490.39	32.70	43.60	14.30	39.50	10.20	42.90	74.00	-31.10	Pk	Horizontal
11490.39	31.05	43.60	14.30	39.50	10.20	41.25	54.00	-12.75	AV	Horizontal
13280.93	31.97	42.60	15.90	38.90	12.20	44.17	74.00	-29.83	Pk	Vertical
13280.93	29.87	42.60	15.90	38.90	12.20	42.07	54.00	-11.93	AV	Vertical
13295.41	32.39	42.60	15.90	38.90	12.20	44.59	74.00	-29.41	Pk	Horizontal
13295.41	29.01	42.60	15.90	38.90	12.20	41.21	54.00	-12.79	AV	Horizontal
Mid Channel										
3250.63	44.13	44.70	6.70	28.20	-9.80	34.33	68.20	-33.87	Pk	Vertical
3250.63	41.51	44.70	6.70	28.20	-9.80	31.71	54.00	-22.29	AV	Vertical
3261.16	45.07	44.70	6.70	28.20	-9.80	35.27	74.00	-38.73	Pk	Horizontal
3261.16	40.94	44.70	6.70	28.20	-9.80	31.14	54.00	-22.86	AV	Horizontal
3990.26	38.73	44.20	7.90	29.70	-6.60	32.13	74.00	-41.87	Pk	Vertical
3990.26	36.74	44.20	7.90	29.70	-6.60	30.14	54.00	-23.86	AV	Vertical
3985.92	38.67	44.20	7.90	29.70	-6.60	32.07	74.00	-41.93	Pk	Horizontal
3985.92	35.64	44.20	7.90	29.70	-6.60	29.04	54.00	-24.96	AV	Horizontal
7222.43	37.40	43.50	11.40	35.50	3.40	40.80	68.20	-27.40	Pk	Vertical
7222.43	34.75	43.50	11.40	35.50	3.40	38.15	54.00	-15.85	AV	Vertical
7220.84	36.70	43.50	11.40	35.50	3.40	40.10	68.20	-28.10	Pk	Horizontal
7220.84	33.54	43.50	11.40	35.50	3.40	36.94	54.00	-17.06	AV	Horizontal
10593.05	39.57	44.50	13.80	38.80	8.10	47.67	68.20	-20.53	Pk	Vertical
10593.05	36.45	44.50	13.80	38.80	8.10	44.55	54.00	-9.45	AV	Vertical
10596.80	39.03	44.50	13.80	38.80	8.10	47.13	68.20	-21.07	Pk	Horizontal
10596.80	37.04	44.50	13.80	38.80	8.10	45.14	54.00	-8.86	AV	Horizontal
11570.01	33.02	43.60	14.30	39.50	10.20	43.22	74.00	-30.78	Pk	Vertical
11570.01	29.85	43.60	14.30	39.50	10.20	40.05	54.00	-13.95	AV	Vertical
11570.30	33.02	43.60	14.30	39.50	10.20	43.22	74.00	-30.78	Pk	Horizontal
11570.30	30.83	43.60	14.30	39.50	10.20	41.03	54.00	-12.97	AV	Horizontal
13281.61	32.56	42.60	15.90	38.90	12.20	44.76	74.00	-29.24	Pk	Vertical
13281.61	28.79	42.60	15.90	38.90	12.20	40.99	54.00	-13.01	AV	Vertical
13281.78	31.66	42.60	15.90	38.90	12.20	43.86	74.00	-30.14	Pk	Horizontal
13281.78	29.62	42.60	15.90	38.90	12.20	41.82	54.00	-12.18	AV	Horizontal



High Channel										
3255.99	44.57	44.70	6.70	28.20	-9.80	34.77	68.20	-33.43	Pk	Vertical
3255.99	41.71	44.70	6.70	28.20	-9.80	31.91	54.00	-22.09	AV	Vertical
3264.17	44.04	44.70	6.70	28.20	-9.80	34.24	74.00	-39.76	Pk	Horizontal
3264.17	41.91	44.70	6.70	28.20	-9.80	32.11	54.00	-21.89	AV	Horizontal
3995.66	39.06	44.20	7.90	29.70	-6.60	32.46	74.00	-41.54	Pk	Vertical
3995.66	37.01	44.20	7.90	29.70	-6.60	30.41	54.00	-23.59	AV	Vertical
3990.22	39.06	44.20	7.90	29.70	-6.60	32.46	74.00	-41.54	Pk	Horizontal
3990.22	35.65	44.20	7.90	29.70	-6.60	29.05	54.00	-24.95	AV	Horizontal
7218.62	37.68	43.50	11.40	35.50	3.40	41.08	68.20	-27.12	Pk	Vertical
7218.62	34.37	43.50	11.40	35.50	3.40	37.77	54.00	-16.23	AV	Vertical
7223.37	37.18	43.50	11.40	35.50	3.40	40.58	68.20	-27.62	Pk	Horizontal
7223.37	34.67	43.50	11.40	35.50	3.40	38.07	54.00	-15.93	AV	Horizontal
10636.14	40.10	44.50	13.80	38.80	8.10	48.20	74.00	-25.80	Pk	Vertical
10636.14	36.17	44.50	13.80	38.80	8.10	44.27	54.00	-9.73	AV	Vertical
10640.27	39.27	44.50	13.80	38.80	8.10	47.37	74.00	-26.63	Pk	Horizontal
10640.27	36.13	44.50	13.80	38.80	8.10	44.23	54.00	-9.77	AV	Horizontal
11649.94	33.97	43.60	14.30	39.50	10.20	44.17	74.00	-29.83	Pk	Vertical
11649.94	30.77	43.60	14.30	39.50	10.20	40.97	54.00	-13.03	AV	Vertical
11650.37	33.77	43.60	14.30	39.50	10.20	43.97	74.00	-30.03	Pk	Horizontal
11650.37	31.11	43.60	14.30	39.50	10.20	41.31	54.00	-12.69	AV	Horizontal
13292.10	32.74	42.70	18.00	37.10	12.40	45.14	74.00	-28.86	Pk	Vertical
13292.10	29.57	42.70	18.00	37.10	12.40	41.97	54.00	-12.03	AV	Vertical
13290.81	31.91	42.70	18.00	37.10	12.40	44.31	74.00	-29.69	Pk	Horizontal
13290.81	29.01	42.70	18.00	37.10	12.40	41.41	54.00	-12.59	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

4.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



APPENDIX - PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****