



Radio Test Report

Report No.: STS2512337W04

Issued for

Radxa Computer (Shenzhen) Co.,Ltd.

1602, Smart Valley, tiezai Road, Gongle community, Xixiang,
Baoan, Shenzhen, China

Product Name: Radxa ZERO 3W

Brand Name: N/A

Model Name: Radxa ZERO 3W D4E32

Series Model(s): Ref. the Section 2.1

FCC ID: 2BC6T-ZERO3W

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: Radxa Computer (Shenzhen) Co.,Ltd.
Address: 1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen, China
Manufacturer's Name: Radxa Computer (Shenzhen) Co.,Ltd.
Address: 1602, Smart Valley, tiezai Road, Gongle community, Xixiang, Baoan, Shenzhen, China

Product Description

Product Name: Radxa ZERO 3W
Brand Name: N/A
Model Name: Radxa ZERO 3W D4E32
Series Model(s): Ref. the Section 2.1

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.

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.

Date of Test

Date of receipt of test item: 13 Dec. 2025
Date (s) of performance of tests: 13 Dec. 2025 to 18 Dec. 2025
Date of Issue: 18 Dec. 2025
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	18 Dec. 2025	STS2512337W04	ALL	Initial Issue



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	PASS*
15.407(a)	Maximum Conducted Output Power	PASS*
15.407(b)/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS*
15.407(c)	Automatically Discontinue Transmission	PASS*
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.

(3) PASS*: Please refer to the original report No.: BCTC2403916799-4E.

Based on the changes in the product(Only change Antenna), the RF chip remains unchanged.

So the report is only updated Models, Conducted emissions and Radiated Emissions for the original report (BCTC2403916799-4E).



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	Radxa ZERO 3W	
Brand Name	N/A	
Model Name	Radxa ZERO 3W D4E32	
Series Model(s)	Radxa ZERO 3W D1, Radxa ZERO 3W D1E8, Radxa ZERO 3W D2, Radxa ZERO 3W D2E16, Radxa ZERO 3W D2E32, Radxa ZERO 3W D4	
Model Difference	All the models are the same circuit and RF module, except model names and product memory.	
Product Description	The EUT is Radxa ZERO 3W	
	Operation Frequency:	IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40)/ax(HE40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80) /ax(HE80): 5.210GHz IEEE 802.11a/ n(HT20)/ac(VHT20)/ax(HE20): 5.745GHz-5.825GHz IEEE 802.11a/ n(HT40)/ac(VHT40)/ax(HE40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80)/ax(HE80): 5.775GHz
	Modulation Type:	802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	Antenna Type:	External antenna
	Antenna Gain:	Antenna 1: 5.1GHzWIFI: 2.36 dBi, 5.8GHzWIFI: 2.36 dBi Antenna 2: 5.1GHzWIFI: -0.6 dBi, 5.8GHzWIFI: 0.34 dBi
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	
Adapter	N/A	
Battery	N/A	
Hardware version number	N/A	
Software version number	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. 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		5.745GHz-5.825GHz	
Channel	Frequency	Channel	Frequency
36	5180	149	5745
38	5190	151	5755
40	5200	153	5765
42	5210	157	5785
44	5220	159	5795
46	5230	161	5805
48	5240	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)/ac(VHT20)/ax(HE20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

For 802.11 n(HT40)/ac(VHT40)/ax(HE40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	151	5755
46	5230	159	5795

For 802.11ac (VHT80)/ax(HE80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	151	5755

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible 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 CH149&CH157&CH165	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 7	TX IEEE 802.11ax HE20 CH36&CH40&CH48	NSS1 MCS0
Mode 8	TX IEEE 802.11ax HE20 CH149&CH157&CH165	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 10	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 11	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 12	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 13	TX IEEE 802.11ax HE40 CH38&CH46	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE40 CH151&CH159	NSS1 MCS0
Mode 15	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 16	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0
Mode 17	TX IEEE 802.11ax HE80 CH42	NSS1 MCS0
Mode 18	TX IEEE 802.11ax HE80 CH155	NSS1 MCS0

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 be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
(4) The 802.11ax mode is investigated among different tones(26/52/106/242-tone RU channel), full resource units (RU), partial resourceunits. The partial RU has no higher power than full RU's, thus the full RU is chosen as main testconfiguration.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 19: 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



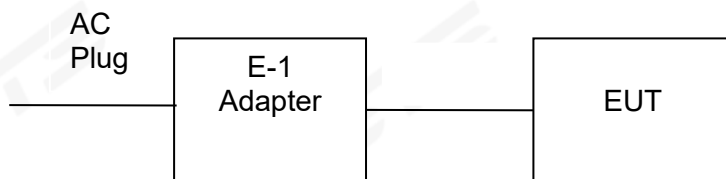
the operating channel as well as the output power level.

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	Ref. the Section 2.1	13	SecureCRT
		802.11n(HT20)		13	
		802.11n(HT40)		13	
		802.11ac(VHT20)		13	
		802.11ac(VHT40)		13	
		802.11ac(VHT80)		13	
		802.11ax(HE20)		13	
		802.11ax(HE40)		13	
		802.11ax(HE80)		13	

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	ANT_1 Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5875MHz)	802.11a	Ref. the Section 2.1	13	SecureCRT
		802.11n(HT20)		13	
		802.11n(HT40)		13	
		802.11ac(VHT20)		13	
		802.11ac(VHT40)		13	
		802.11ac(VHT80)		13	
		802.11ax(HE20)		13	
		802.11ax(HE40)		13	
		802.11ax(HE80)		13	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

CONDUCTED EMISSION TEST



RADIATED SPURIOUS EMISSION TEST



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	ZTC	NB-A515A	N/A
E-2	Notebook	DELL	Inspiron 3501	N/A
C-1	DC Cable	N/A	N/A	N/A

Line

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) “YES” is means “with core”; “NO” is means “without core”.



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	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
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
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
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	HONGSHENGFE NG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			



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

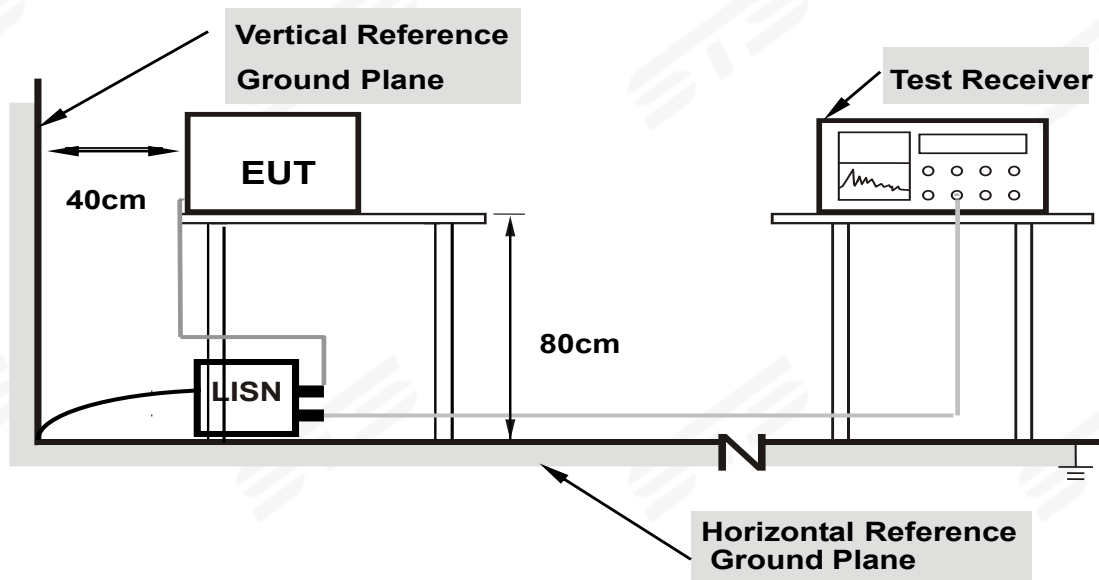
3.1.2 TEST PROCEDURE

- 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.

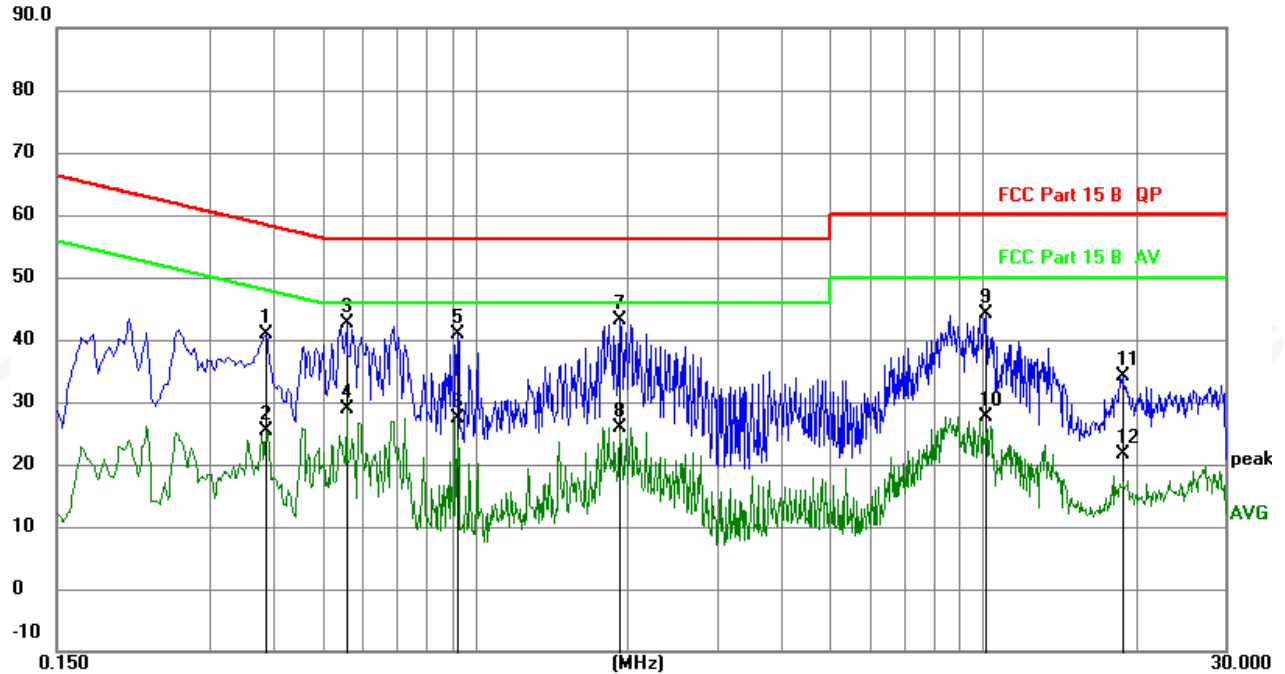
3.1.5 EUT OPERATING CONDITIONS

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:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 19(Antenna 1)		



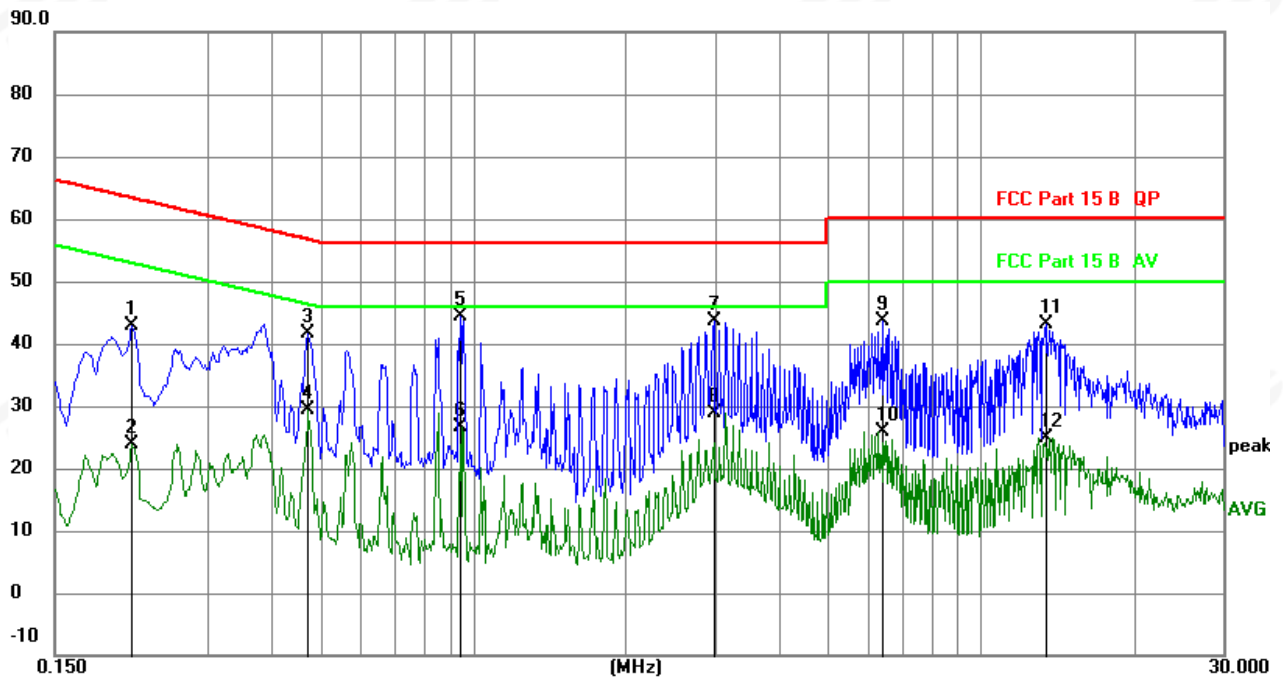
Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1		0.3871	20.82	20.05	40.87	58.13	-17.26	QP
2		0.3871	5.29	20.05	25.34	48.13	-22.79	AVG
3		0.5581	22.61	20.12	42.73	56.00	-13.27	QP
4		0.5581	8.66	20.12	28.78	46.00	-17.22	AVG
5		0.9233	20.54	20.27	40.81	56.00	-15.19	QP
6		0.9233	7.01	20.27	27.28	46.00	-18.72	AVG
7	*	1.9283	22.96	20.19	43.15	56.00	-12.85	QP
8		1.9283	5.73	20.19	25.92	46.00	-20.08	AVG
9		10.1253	22.72	21.38	44.10	60.00	-15.90	QP
10		10.1253	6.20	21.38	27.58	50.00	-22.42	AVG
11		18.8204	10.72	23.33	34.05	60.00	-25.95	QP
12		18.8204	-1.77	23.33	21.56	50.00	-28.44	AVG



Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 19(Antenna 1)		



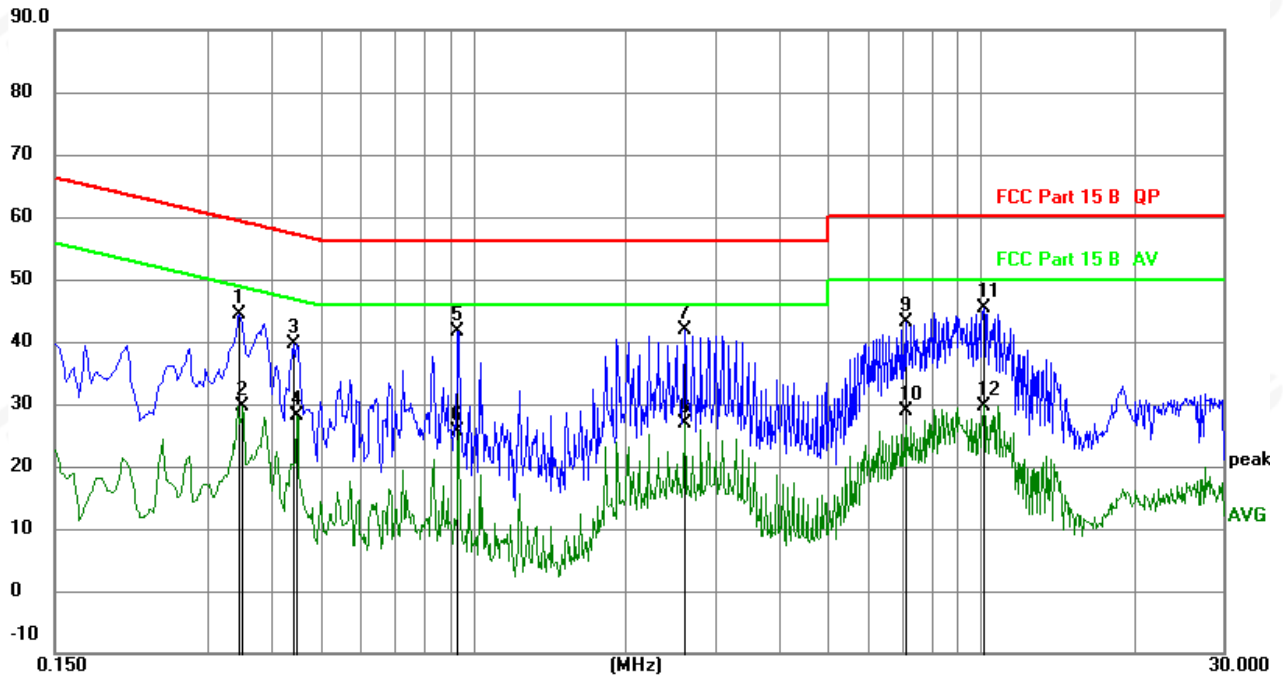
Remark:

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

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2127	22.85	20.04	42.89	63.10	-20.21	QP
2		0.2127	3.78	20.04	23.82	53.10	-29.28	AVG
3		0.4736	21.47	20.06	41.53	56.45	-14.92	QP
4		0.4736	9.39	20.06	29.45	46.45	-17.00	AVG
5	*	0.9430	24.16	20.27	44.43	56.00	-11.57	QP
6		0.9430	6.25	20.27	26.52	46.00	-19.48	AVG
7		2.9776	23.18	20.39	43.57	56.00	-12.43	QP
8		2.9776	8.58	20.39	28.97	46.00	-17.03	AVG
9		6.3858	22.75	20.86	43.61	60.00	-16.39	QP
10		6.3858	5.07	20.86	25.93	50.00	-24.07	AVG
11		13.4080	20.93	22.12	43.05	60.00	-16.95	QP
12		13.4080	2.88	22.12	25.00	50.00	-25.00	AVG



Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 19(Antenna 2)		



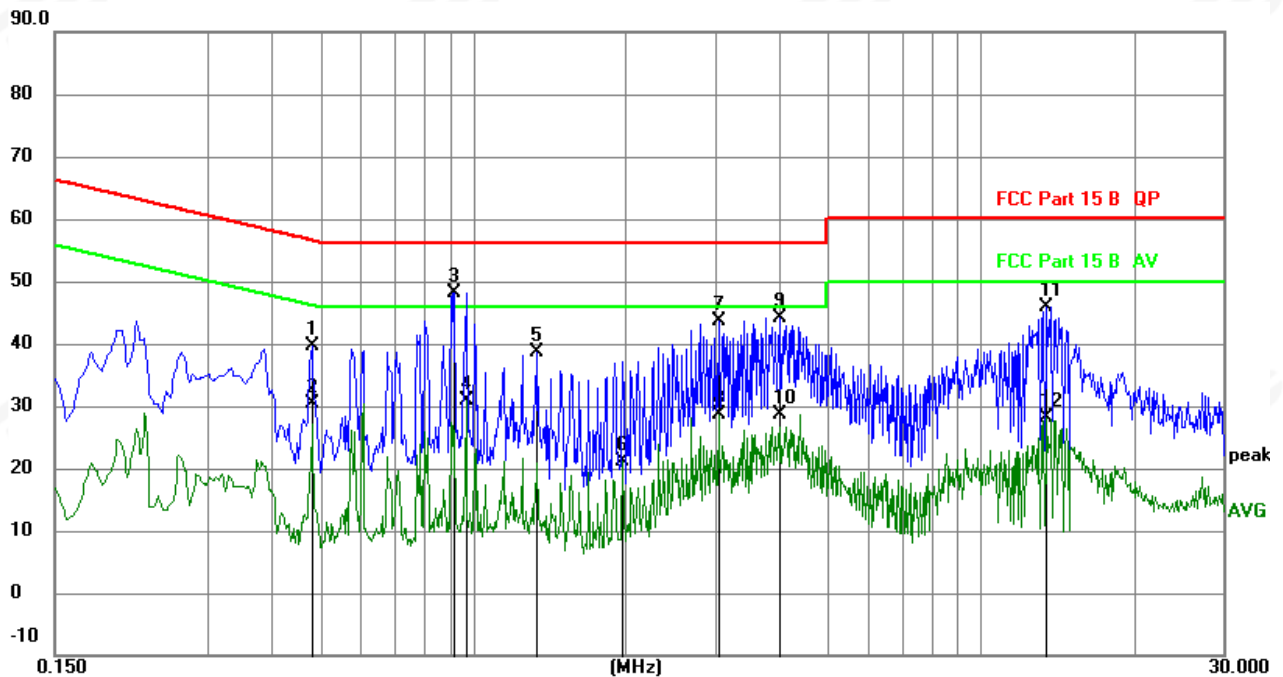
Remark:

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

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3464	24.29	20.05	44.34	59.05	-14.71	QP
2		0.3520	9.55	20.05	29.60	48.92	-19.32	AVG
3		0.4420	19.60	20.06	39.66	57.02	-17.36	QP
4		0.4491	7.99	20.06	28.05	46.89	-18.84	AVG
5		0.9331	21.36	20.27	41.63	56.00	-14.37	QP
6		0.9331	5.35	20.27	25.62	46.00	-20.38	AVG
7	*	2.6082	21.69	20.31	42.00	56.00	-14.00	QP
8		2.6082	6.46	20.31	26.77	46.00	-19.23	AVG
9		7.0997	22.30	20.94	43.24	60.00	-16.76	QP
10		7.0997	8.06	20.94	29.00	50.00	-21.00	AVG
11		10.1253	23.97	21.38	45.35	60.00	-14.65	QP
12		10.1253	8.30	21.38	29.68	50.00	-20.32	AVG



Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 19(Antenna 2)		



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)

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.4811	19.52	20.06	39.58	56.32	-16.74	QP
2		0.4811	10.24	20.06	30.30	46.32	-16.02	AVG
3	*	0.9184	27.93	20.27	48.20	56.00	-7.80	QP
4		0.9683	10.55	20.27	30.82	46.00	-15.18	AVG
5		1.3378	18.41	20.24	38.65	56.00	-17.35	QP
6		1.9696	0.95	20.18	21.13	46.00	-24.87	AVG
7		3.0414	23.19	20.40	43.59	56.00	-12.41	QP
8		3.0414	8.16	20.40	28.56	46.00	-17.44	AVG
9		4.0274	23.59	20.61	44.20	56.00	-11.80	QP
10		4.0274	7.96	20.61	28.57	46.00	-17.43	AVG
11		13.4792	23.77	22.14	45.91	60.00	-14.09	QP
12		13.4792	5.91	22.14	28.05	50.00	-21.95	AVG



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

- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- 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.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

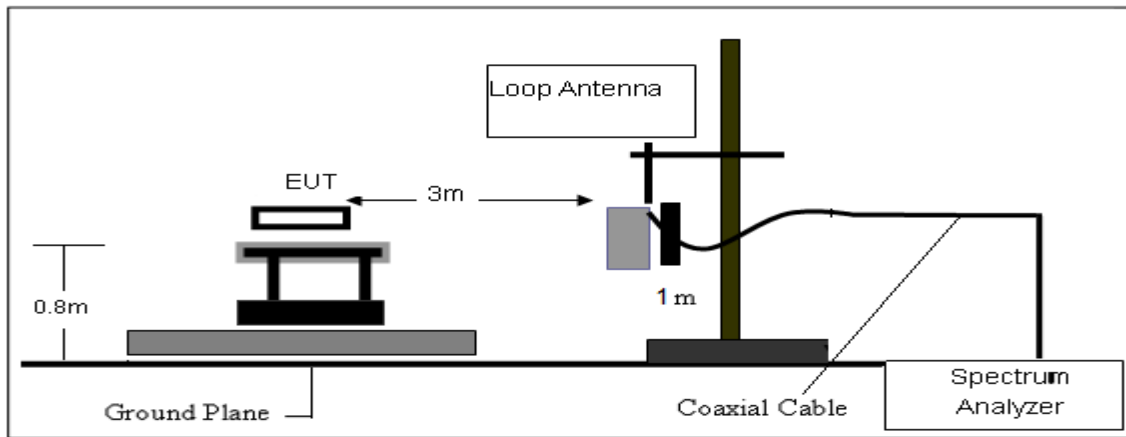
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

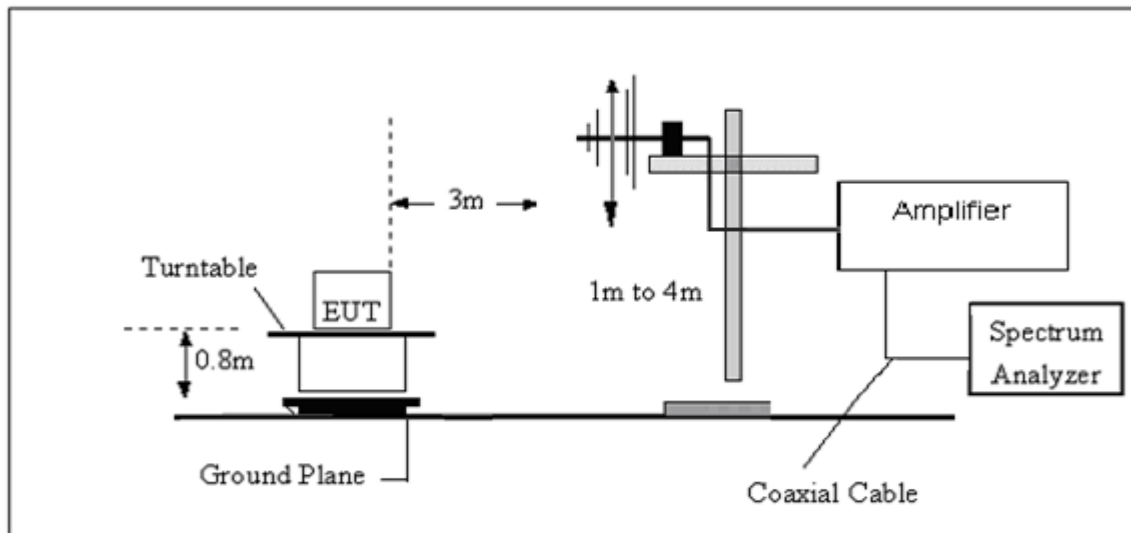
No deviation

3.2.4 TEST SETUP

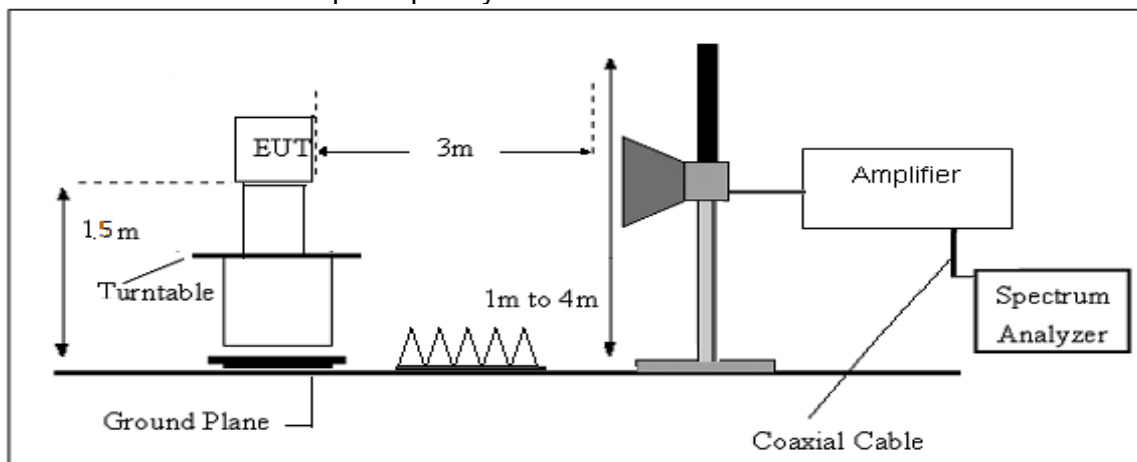
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

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



3.2.7 TEST RESULTS (Between 9KHz – 30 MHz)

Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	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.

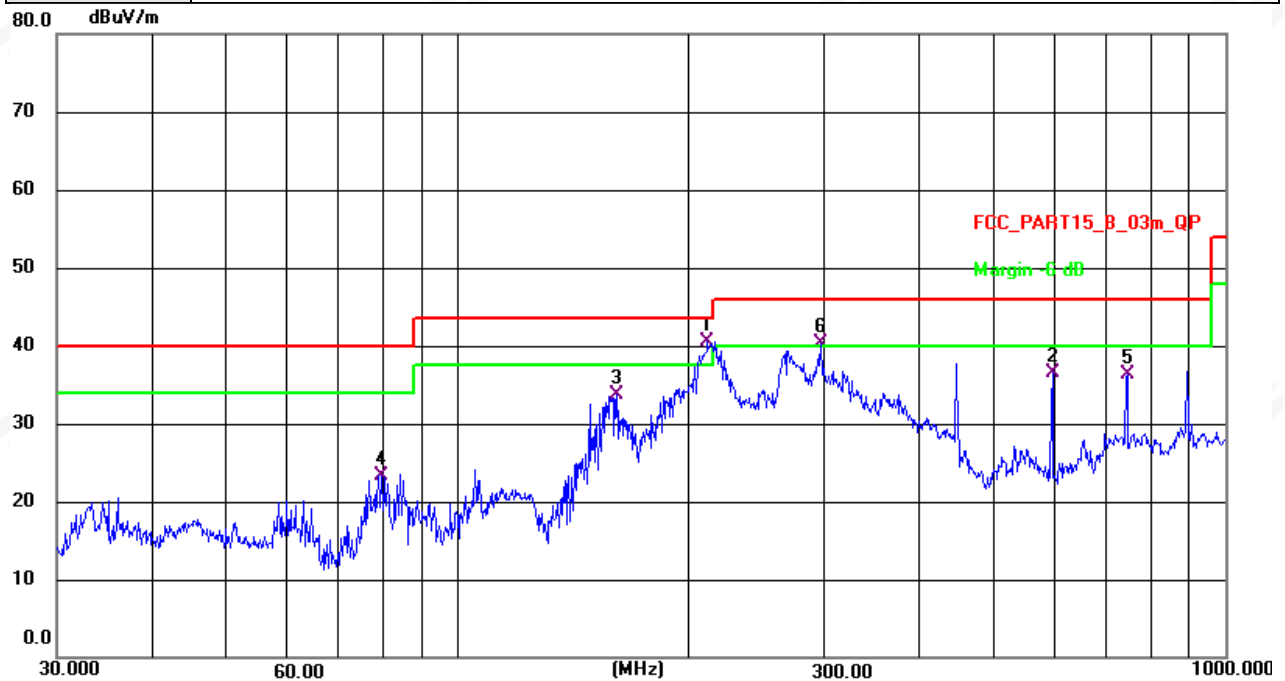
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



3.2.8 TEST RESULTS (Between 30MHz – 1GHz)

Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	Mode 1-18 (Mode 9 worst mode) (Antenna 1)		



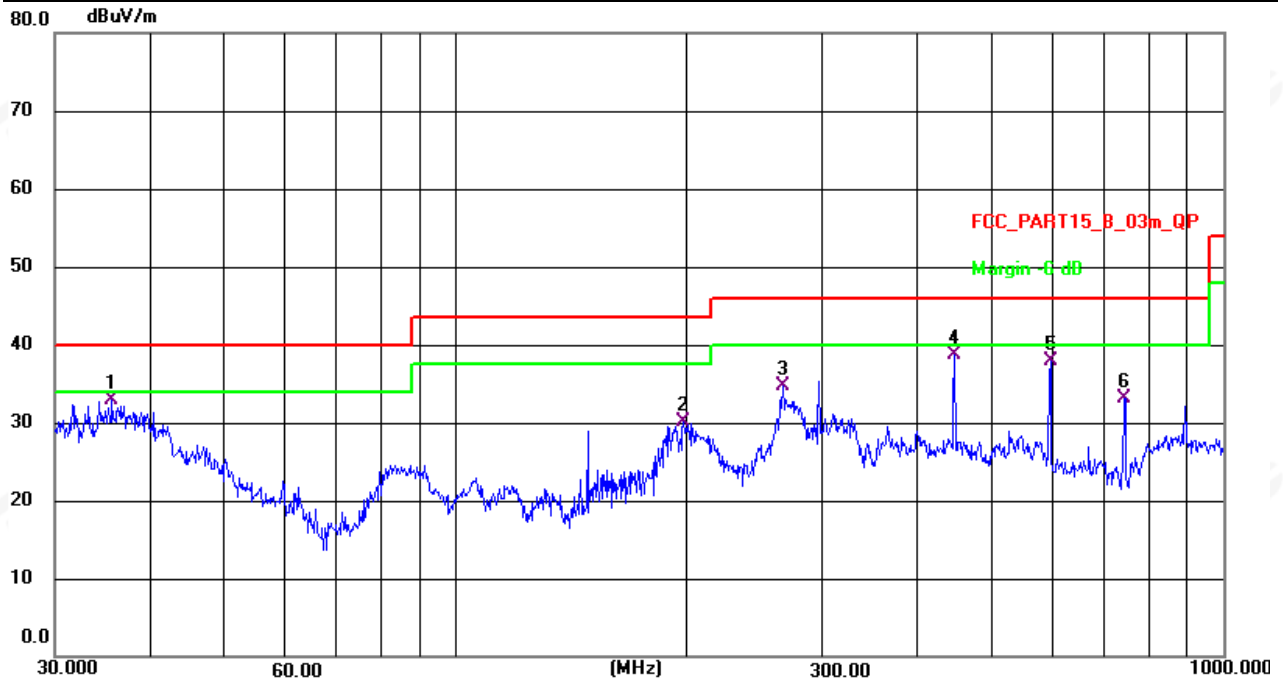
Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	211.5264	52.38	-11.82	40.56	43.50	-2.94	QP
2	595.1327	40.76	-4.23	36.53	46.00	-9.47	QP
3	160.9088	48.27	-14.65	33.62	43.50	-9.88	QP
4	79.5208	36.76	-13.46	23.30	40.00	-16.70	QP
5	744.8660	38.80	-2.43	36.37	46.00	-9.63	QP
6 !	297.2241	50.77	-10.42	40.35	46.00	-5.65	QP



Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	Mode 1-18 (Mode 9 worst mode) (Antenna 1)		



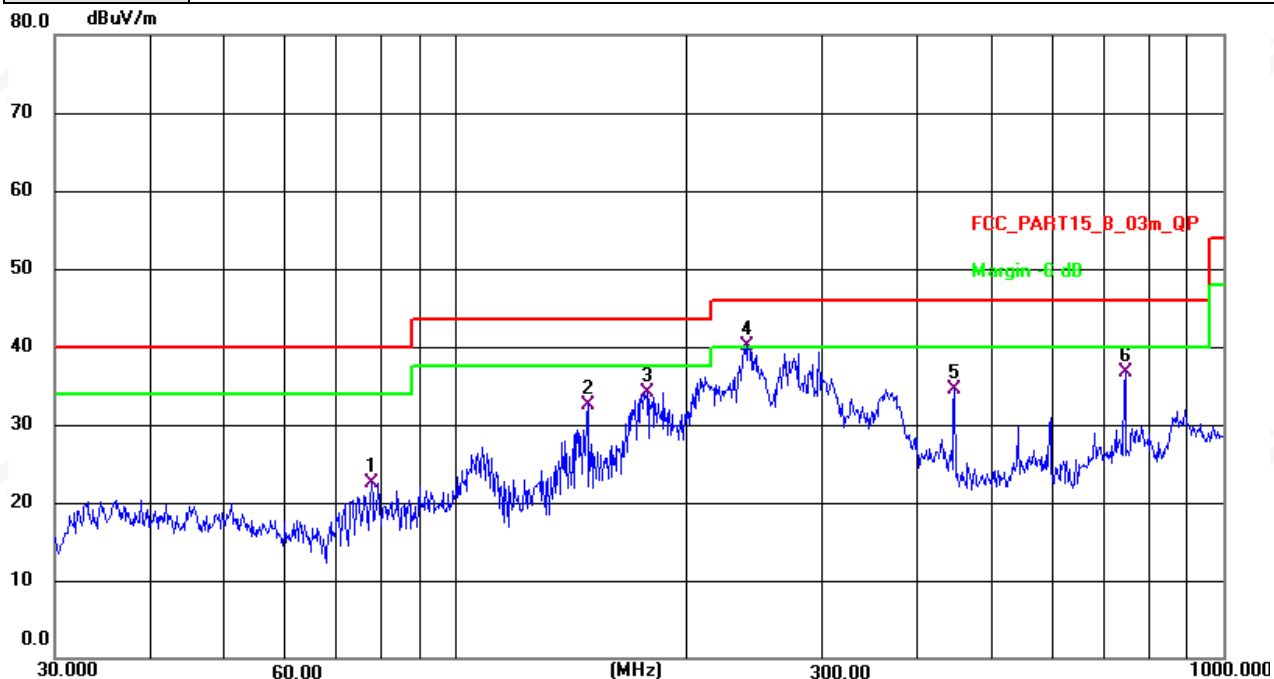
Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	35.6240	44.98	-12.02	32.96	40.00	-7.04	QP
2	197.8926	42.25	-12.12	30.13	43.50	-13.37	QP
3	266.6089	45.60	-10.98	34.62	46.00	-11.38	QP
4	446.4141	45.47	-6.72	38.75	46.00	-7.25	QP
5	595.1327	42.19	-4.23	37.96	46.00	-8.04	QP
6	742.2586	35.60	-2.47	33.13	46.00	-12.87	QP



Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	Mode 1-18 (Mode 9 worst mode) (Antenna 2)		



Remark:

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

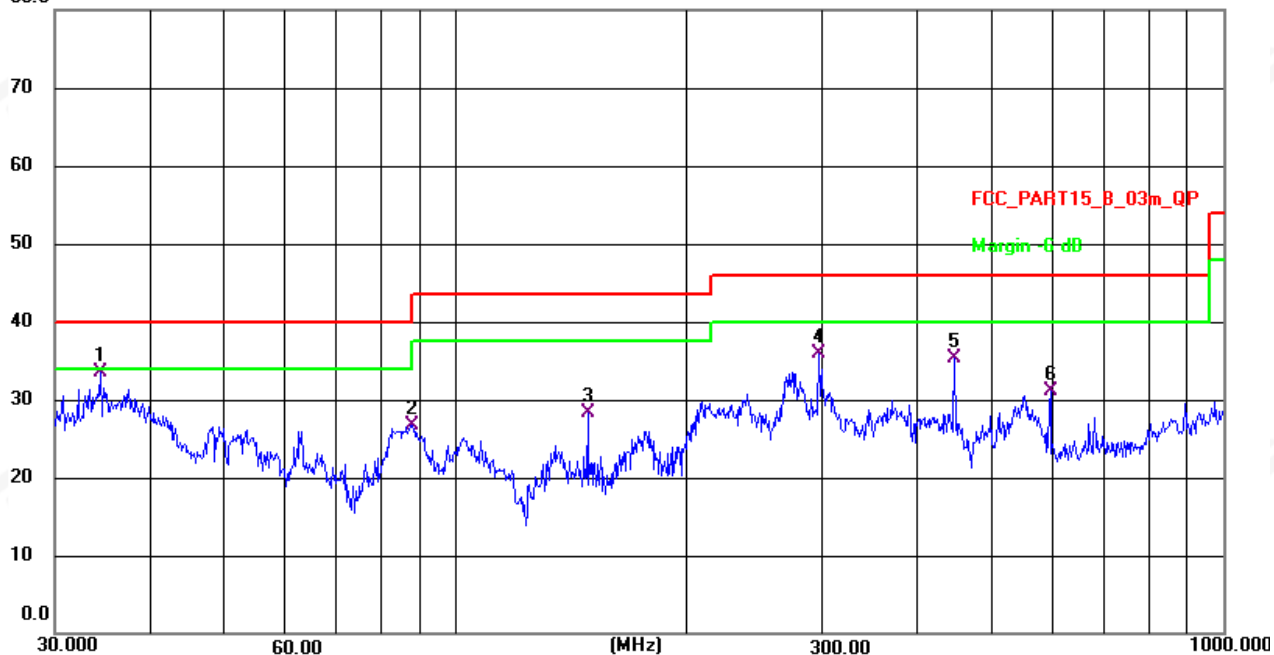
4. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	77.5926	36.11	-13.57	22.54	40.00	-17.46	QP
2	148.4410	47.90	-15.30	32.60	43.50	-10.90	QP
3	177.5089	47.71	-13.51	34.20	43.50	-9.30	QP
4 *	239.9874	51.61	-11.42	40.19	46.00	-5.81	QP
5	446.4141	41.25	-6.72	34.53	46.00	-11.47	QP
6	744.8659	39.13	-2.43	36.70	46.00	-9.30	QP



Temperature:	26 °C	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	Mode 1-18 (Mode 9 worst mode) (Antenna 2)		

80.0 dBuV/m



Remark:

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	34.3963	45.72	-12.15	33.57	40.00	-6.43	QP
2	87.7248	39.68	-13.00	26.68	40.00	-13.32	QP
3	148.4410	43.70	-15.30	28.40	43.50	-15.10	QP
4	297.2241	46.33	-10.42	35.91	46.00	-10.09	QP
5	446.4141	41.95	-6.72	35.23	46.00	-10.77	QP
6	595.1327	35.38	-4.23	31.15	46.00	-14.85	QP



(Antenna 1)

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 (802.11/ 5180 MHz)										
3261.34	43.99	44.70	6.70	28.20	-9.80	34.19	74.00	-39.81	Pk	Vertical
3261.34	41.62	44.70	6.70	28.20	-9.80	31.82	54.00	-22.18	AV	Vertical
3249.32	44.33	44.70	6.70	28.20	-9.80	34.53	68.20	-33.67	Pk	Horizontal
3249.32	41.46	44.70	6.70	28.20	-9.80	31.66	54.00	-22.34	AV	Horizontal
3996.57	39.77	44.20	7.90	29.70	-6.60	33.17	74.00	-40.83	Pk	Vertical
3996.57	36.64	44.20	7.90	29.70	-6.60	30.04	54.00	-23.96	AV	Vertical
3981.79	39.27	44.20	7.90	29.70	-6.60	32.67	74.00	-41.33	Pk	Horizontal
3981.79	37.05	44.20	7.90	29.70	-6.60	30.45	54.00	-23.55	AV	Horizontal
7226.63	36.76	43.50	11.40	35.50	3.40	40.16	68.20	-28.04	Pk	Vertical
7226.63	34.84	43.50	11.40	35.50	3.40	38.24	54.00	-15.76	AV	Vertical
7227.75	36.85	43.50	11.40	35.50	3.40	40.25	68.20	-27.95	Pk	Horizontal
7227.75	34.53	43.50	11.40	35.50	3.40	37.93	54.00	-16.07	AV	Horizontal
10520.40	39.48	44.50	13.90	38.80	8.20	47.68	68.20	-20.52	Pk	Vertical
10520.40	36.50	44.50	13.90	38.80	8.20	44.70	54.00	-9.30	AV	Vertical
10520.08	40.13	44.50	13.90	38.80	8.20	48.33	68.20	-19.87	Pk	Horizontal
10520.08	36.13	44.50	13.90	38.80	8.20	44.33	54.00	-9.67	AV	Horizontal
11034.80	34.18	43.60	14.30	39.50	10.20	44.38	74.00	-29.62	Pk	Vertical
11034.80	30.32	43.60	14.30	39.50	10.20	40.52	54.00	-13.48	AV	Vertical
11031.83	32.71	43.60	14.30	39.50	10.20	42.91	74.00	-31.09	Pk	Horizontal
11031.83	31.08	43.60	14.30	39.50	10.20	41.28	54.00	-12.72	AV	Horizontal
13288.92	32.42	42.60	15.90	38.90	12.20	44.62	74.00	-29.38	Pk	Vertical
13288.92	28.53	42.60	15.90	38.90	12.20	40.73	54.00	-13.27	AV	Vertical
13287.52	31.68	42.60	15.90	38.90	12.20	43.88	74.00	-30.12	Pk	Horizontal
13287.52	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Horizontal
Mid Channel (802.11/ 5200 MHz)										
3265.26	44.71	44.70	6.70	28.20	-9.80	34.91	74.00	-39.09	Pk	Vertical
3265.26	42.16	44.70	6.70	28.20	-9.80	32.36	54.00	-21.64	AV	Vertical
3258.93	45.03	44.70	6.70	28.20	-9.80	35.23	68.20	-32.97	Pk	Horizontal
3258.93	41.21	44.70	6.70	28.20	-9.80	31.41	54.00	-22.59	AV	Horizontal
3981.45	39.31	44.20	7.90	29.70	-6.60	32.71	74.00	-41.29	Pk	Vertical
3981.45	36.99	44.20	7.90	29.70	-6.60	30.39	54.00	-23.61	AV	Vertical
3981.13	39.21	44.20	7.90	29.70	-6.60	32.61	74.00	-41.39	Pk	Horizontal
3981.13	36.97	44.20	7.90	29.70	-6.60	30.37	54.00	-23.63	AV	Horizontal
7218.22	36.59	43.50	11.40	35.50	3.40	39.99	68.20	-28.21	Pk	Vertical
7218.22	34.00	43.50	11.40	35.50	3.40	37.40	54.00	-16.60	AV	Vertical
7232.96	37.04	43.50	11.40	35.50	3.40	40.44	68.20	-27.76	Pk	Horizontal
7232.96	34.25	43.50	11.40	35.50	3.40	37.65	54.00	-16.35	AV	Horizontal
10600.03	39.60	44.50	13.80	38.80	8.10	47.70	74.00	-26.30	Pk	Vertical
10600.03	37.05	44.50	13.80	38.80	8.10	45.15	54.00	-8.85	AV	Vertical
10600.28	39.38	44.50	13.80	38.80	8.10	47.48	74.00	-26.52	Pk	Horizontal
10600.28	35.72	44.50	13.80	38.80	8.10	43.82	54.00	-10.18	AV	Horizontal
11032.11	33.61	43.60	14.30	39.50	10.20	43.81	74.00	-30.19	Pk	Vertical
11032.11	29.79	43.60	14.30	39.50	10.20	39.99	54.00	-14.01	AV	Vertical
11023.00	33.95	43.60	14.30	39.50	10.20	44.15	74.00	-29.85	Pk	Horizontal
11023.00	30.76	43.60	14.30	39.50	10.20	40.96	54.00	-13.04	AV	Horizontal
13296.62	32.80	42.60	15.90	38.90	12.20	45.00	74.00	-29.00	Pk	Vertical
13296.62	28.78	42.60	15.90	38.90	12.20	40.98	54.00	-13.02	AV	Vertical
13280.99	32.29	42.60	15.90	38.90	12.20	44.49	74.00	-29.51	Pk	Horizontal
13280.99	29.00	42.60	15.90	38.90	12.20	41.20	54.00	-12.80	AV	Horizontal



High Channel (802.11/ 5240 MHz)										
3245.36	44.97	44.70	6.70	28.20	-9.80	35.17	68.20	-33.03	Pk	Vertical
3245.36	40.86	44.70	6.70	28.20	-9.80	31.06	54.00	-22.94	AV	Vertical
3250.75	44.14	44.70	6.70	28.20	-9.80	34.34	68.20	-33.86	Pk	Horizontal
3250.75	40.89	44.70	6.70	28.20	-9.80	31.09	54.00	-22.91	AV	Horizontal
3996.72	39.27	44.20	7.90	29.70	-6.60	32.67	74.00	-41.33	Pk	Vertical
3996.72	35.67	44.20	7.90	29.70	-6.60	29.07	54.00	-24.93	AV	Vertical
3984.66	38.96	44.20	7.90	29.70	-6.60	32.36	74.00	-41.64	Pk	Horizontal
3984.66	37.01	44.20	7.90	29.70	-6.60	30.41	54.00	-23.59	AV	Horizontal
7230.42	36.81	43.50	11.40	35.50	3.40	40.21	68.20	-27.99	Pk	Vertical
7230.42	34.34	43.50	11.40	35.50	3.40	37.74	54.00	-16.26	AV	Vertical
7234.03	37.67	43.50	11.40	35.50	3.40	41.07	68.20	-27.13	Pk	Horizontal
7234.03	33.90	43.50	11.40	35.50	3.40	37.30	54.00	-16.70	AV	Horizontal
10640.04	39.59	44.50	13.80	38.80	8.10	47.69	74.00	-26.31	Pk	Vertical
10640.04	36.39	44.50	13.80	38.80	8.10	44.49	54.00	-9.51	AV	Vertical
10640.08	39.15	44.50	13.80	38.80	8.10	47.25	74.00	-26.75	Pk	Horizontal
10640.08	35.92	44.50	13.80	38.80	8.10	44.02	54.00	-9.98	AV	Horizontal
11025.16	33.23	43.60	14.30	39.50	10.20	43.43	74.00	-30.57	Pk	Vertical
11025.16	31.16	43.60	14.30	39.50	10.20	41.36	54.00	-12.64	AV	Vertical
11025.42	33.40	43.60	14.30	39.50	10.20	43.60	74.00	-30.40	Pk	Horizontal
11025.42	30.55	43.60	14.30	39.50	10.20	40.75	54.00	-13.25	AV	Horizontal
13297.36	32.98	42.70	18.00	37.10	12.40	45.38	74.00	-28.62	Pk	Vertical
13297.36	29.24	42.70	18.00	37.10	12.40	41.64	54.00	-12.36	AV	Vertical
13292.60	31.88	42.70	18.00	37.10	12.40	44.28	74.00	-29.72	Pk	Horizontal
13292.60	29.52	42.70	18.00	37.10	12.40	41.92	54.00	-12.08	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**
(Antenna 1)

U-NII 4(5.725-5.85) GHz										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11/ 5745 MHz)										
3263.01	44.13	44.70	6.70	28.20	-9.80	34.33	74.00	-39.67	Pk	Vertical
3263.01	42.14	44.70	6.70	28.20	-9.80	32.34	54.00	-21.66	AV	Vertical
3251.76	45.05	44.70	6.70	28.20	-9.80	35.25	68.20	-32.95	Pk	Horizontal
3251.76	42.17	44.70	6.70	28.20	-9.80	32.37	54.00	-21.63	AV	Horizontal
3985.58	39.28	44.20	7.90	29.70	-6.60	32.68	74.00	-41.32	Pk	Vertical
3985.58	36.86	44.20	7.90	29.70	-6.60	30.26	54.00	-23.74	AV	Vertical
3997.72	38.98	44.20	7.90	29.70	-6.60	32.38	74.00	-41.62	Pk	Horizontal
3997.72	36.93	44.20	7.90	29.70	-6.60	30.33	54.00	-23.67	AV	Horizontal
7227.33	36.92	43.50	11.40	35.50	3.40	40.32	68.20	-27.88	Pk	Vertical
7227.33	33.48	43.50	11.40	35.50	3.40	36.88	54.00	-17.12	AV	Vertical
7229.73	37.87	43.50	11.40	35.50	3.40	41.27	68.20	-26.93	Pk	Horizontal
7229.73	34.22	43.50	11.40	35.50	3.40	37.62	54.00	-16.38	AV	Horizontal
10513.25	40.07	44.50	13.90	38.80	8.20	48.27	68.20	-19.93	Pk	Vertical
10513.25	36.45	44.50	13.90	38.80	8.20	44.65	54.00	-9.35	AV	Vertical
10514.34	38.70	44.50	13.90	38.80	8.20	46.90	68.20	-21.30	Pk	Horizontal
10514.34	36.64	44.50	13.90	38.80	8.20	44.84	54.00	-9.16	AV	Horizontal
11490.11	32.93	43.60	14.30	39.50	10.20	43.13	74.00	-30.87	Pk	Vertical
11490.11	30.99	43.60	14.30	39.50	10.20	41.19	54.00	-12.81	AV	Vertical
11490.39	33.42	43.60	14.30	39.50	10.20	43.62	74.00	-30.38	Pk	Horizontal
11490.39	31.04	43.60	14.30	39.50	10.20	41.24	54.00	-12.76	AV	Horizontal
13296.85	32.19	42.60	15.90	38.90	12.20	44.39	74.00	-29.61	Pk	Vertical
13296.85	29.75	42.60	15.90	38.90	12.20	41.95	54.00	-12.05	AV	Vertical
13283.23	32.61	42.60	15.90	38.90	12.20	44.81	74.00	-29.19	Pk	Horizontal
13283.23	29.90	42.60	15.90	38.90	12.20	42.10	54.00	-11.90	AV	Horizontal
Mid Channel (802.11/ 5785 MHz)										
3245.94	44.29	44.70	6.70	28.20	-9.80	34.49	68.20	-33.71	Pk	Vertical
3245.94	41.10	44.70	6.70	28.20	-9.80	31.30	54.00	-22.70	AV	Vertical
3252.04	44.35	44.70	6.70	28.20	-9.80	34.55	68.20	-33.65	Pk	Horizontal
3252.04	41.37	44.70	6.70	28.20	-9.80	31.57	54.00	-22.43	AV	Horizontal
3994.30	39.07	44.20	7.90	29.70	-6.60	32.47	74.00	-41.53	Pk	Vertical
3994.30	35.95	44.20	7.90	29.70	-6.60	29.35	54.00	-24.65	AV	Vertical
3984.16	39.27	44.20	7.90	29.70	-6.60	32.67	74.00	-41.33	Pk	Horizontal
3984.16	36.79	44.20	7.90	29.70	-6.60	30.19	54.00	-23.81	AV	Horizontal
7218.72	36.95	43.50	11.40	35.50	3.40	40.35	68.20	-27.85	Pk	Vertical
7218.72	34.12	43.50	11.40	35.50	3.40	37.52	54.00	-16.48	AV	Vertical
7235.94	37.63	43.50	11.40	35.50	3.40	41.03	68.20	-27.17	Pk	Horizontal
7235.94	34.33	43.50	11.40	35.50	3.40	37.73	54.00	-16.27	AV	Horizontal
10582.21	39.55	44.50	13.80	38.80	8.10	47.65	68.20	-20.55	Pk	Vertical
10582.21	37.17	44.50	13.80	38.80	8.10	45.27	54.00	-8.73	AV	Vertical
10589.32	39.42	44.50	13.80	38.80	8.10	47.52	68.20	-20.68	Pk	Horizontal
10589.32	36.01	44.50	13.80	38.80	8.10	44.11	54.00	-9.89	AV	Horizontal
11570.25	34.14	43.60	14.30	39.50	10.20	44.34	74.00	-29.66	Pk	Vertical
11570.25	30.75	43.60	14.30	39.50	10.20	40.95	54.00	-13.05	AV	Vertical
11570.09	33.84	43.60	14.30	39.50	10.20	44.04	74.00	-29.96	Pk	Horizontal
11570.09	30.62	43.60	14.30	39.50	10.20	40.82	54.00	-13.18	AV	Horizontal
13285.98	32.04	42.60	15.90	38.90	12.20	44.24	74.00	-29.76	Pk	Vertical
13285.98	29.19	42.60	15.90	38.90	12.20	41.39	54.00	-12.61	AV	Vertical
13285.81	32.12	42.60	15.90	38.90	12.20	44.32	74.00	-29.68	Pk	Horizontal
13285.81	29.96	42.60	15.90	38.90	12.20	42.16	54.00	-11.84	AV	Horizontal



High Channel (802.11/ 5825 MHz)										
3254.44	44.82	44.70	6.70	28.20	-9.80	35.02	68.20	-33.18	Pk	Vertical
3254.44	41.87	44.70	6.70	28.20	-9.80	32.07	54.00	-21.93	AV	Vertical
3257.01	45.09	44.70	6.70	28.20	-9.80	35.29	68.20	-32.91	Pk	Horizontal
3257.01	40.99	44.70	6.70	28.20	-9.80	31.19	54.00	-22.81	AV	Horizontal
3994.70	40.05	44.20	7.90	29.70	-6.60	33.45	74.00	-40.55	Pk	Vertical
3994.70	36.69	44.20	7.90	29.70	-6.60	30.09	54.00	-23.91	AV	Vertical
3999.16	38.99	44.20	7.90	29.70	-6.60	32.39	74.00	-41.61	Pk	Horizontal
3999.16	35.76	44.20	7.90	29.70	-6.60	29.16	54.00	-24.84	AV	Horizontal
7224.60	37.60	43.50	11.40	35.50	3.40	41.00	68.20	-27.20	Pk	Vertical
7224.60	34.13	43.50	11.40	35.50	3.40	37.53	54.00	-16.47	AV	Vertical
7224.92	37.57	43.50	11.40	35.50	3.40	40.97	68.20	-27.23	Pk	Horizontal
7224.92	34.80	43.50	11.40	35.50	3.40	38.20	54.00	-15.80	AV	Horizontal
10635.45	39.17	44.50	13.80	38.80	8.10	47.27	74.00	-26.73	Pk	Vertical
10635.45	35.82	44.50	13.80	38.80	8.10	43.92	54.00	-10.08	AV	Vertical
10640.17	39.12	44.50	13.80	38.80	8.10	47.22	74.00	-26.78	Pk	Horizontal
10640.17	36.12	44.50	13.80	38.80	8.10	44.22	54.00	-9.78	AV	Horizontal
11650.33	33.14	43.60	14.30	39.50	10.20	43.34	74.00	-30.66	Pk	Vertical
11650.33	29.72	43.60	14.30	39.50	10.20	39.92	54.00	-14.08	AV	Vertical
11649.94	33.33	43.60	14.30	39.50	10.20	43.53	74.00	-30.47	Pk	Horizontal
11649.94	31.04	43.60	14.30	39.50	10.20	41.24	54.00	-12.76	AV	Horizontal
13299.44	31.80	42.70	18.00	37.10	12.40	44.20	74.00	-29.80	Pk	Vertical
13299.44	29.32	42.70	18.00	37.10	12.40	41.72	54.00	-12.28	AV	Vertical
13295.72	32.26	42.70	18.00	37.10	12.40	44.66	74.00	-29.34	Pk	Horizontal
13295.72	28.96	42.70	18.00	37.10	12.40	41.36	54.00	-12.64	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-1 5150-5250MHz:

(Antenna 2)

U-NII 1(5.15-5.25) 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 (802.11/ 5180 MHz)										
3264.99	44.71	44.70	6.70	28.20	-9.80	34.91	74.00	-39.09	Pk	Vertical
3264.99	40.87	44.70	6.70	28.20	-9.80	31.07	54.00	-22.93	AV	Vertical
3256.72	43.83	44.70	6.70	28.20	-9.80	34.03	68.20	-34.17	Pk	Horizontal
3256.72	41.02	44.70	6.70	28.20	-9.80	31.22	54.00	-22.78	AV	Horizontal
3997.24	39.32	44.20	7.90	29.70	-6.60	32.72	74.00	-41.28	Pk	Vertical
3997.24	35.69	44.20	7.90	29.70	-6.60	29.09	54.00	-24.91	AV	Vertical
3991.02	38.84	44.20	7.90	29.70	-6.60	32.24	74.00	-41.76	Pk	Horizontal
3991.02	36.87	44.20	7.90	29.70	-6.60	30.27	54.00	-23.73	AV	Horizontal
7231.35	36.55	43.50	11.40	35.50	3.40	39.95	68.20	-28.25	Pk	Vertical
7231.35	33.89	43.50	11.40	35.50	3.40	37.29	54.00	-16.71	AV	Vertical
7217.93	36.46	43.50	11.40	35.50	3.40	39.86	68.20	-28.34	Pk	Horizontal
7217.93	33.57	43.50	11.40	35.50	3.40	36.97	54.00	-17.03	AV	Horizontal
10519.98	39.46	44.50	13.90	38.80	8.20	47.66	68.20	-20.54	Pk	Vertical
10519.98	36.70	44.50	13.90	38.80	8.20	44.90	54.00	-9.10	AV	Vertical
10520.02	39.89	44.50	13.90	38.80	8.20	48.09	68.20	-20.11	Pk	Horizontal
10520.02	36.70	44.50	13.90	38.80	8.20	44.90	54.00	-9.10	AV	Horizontal
11022.29	33.98	43.60	14.30	39.50	10.20	44.18	74.00	-29.82	Pk	Vertical
11022.29	31.04	43.60	14.30	39.50	10.20	41.24	54.00	-12.76	AV	Vertical
11027.44	32.86	43.60	14.30	39.50	10.20	43.06	74.00	-30.94	Pk	Horizontal
11027.44	30.51	43.60	14.30	39.50	10.20	40.71	54.00	-13.29	AV	Horizontal
13286.71	31.62	42.60	15.90	38.90	12.20	43.82	74.00	-30.18	Pk	Vertical
13286.71	29.32	42.60	15.90	38.90	12.20	41.52	54.00	-12.48	AV	Vertical
13283.68	32.41	42.60	15.90	38.90	12.20	44.61	74.00	-29.39	Pk	Horizontal
13283.68	28.81	42.60	15.90	38.90	12.20	41.01	54.00	-12.99	AV	Horizontal
Mid Channel (802.11/ 5200 MHz)										
3261.91	45.22	44.70	6.70	28.20	-9.80	35.42	74.00	-38.58	Pk	Vertical
3261.91	42.18	44.70	6.70	28.20	-9.80	32.38	54.00	-21.62	AV	Vertical
3252.58	44.92	44.70	6.70	28.20	-9.80	35.12	68.20	-33.08	Pk	Horizontal
3252.58	41.15	44.70	6.70	28.20	-9.80	31.35	54.00	-22.65	AV	Horizontal
4000.26	39.07	44.20	7.90	29.70	-6.60	32.47	74.00	-41.53	Pk	Vertical
4000.26	37.05	44.20	7.90	29.70	-6.60	30.45	54.00	-23.55	AV	Vertical
3992.13	40.07	44.20	7.90	29.70	-6.60	33.47	74.00	-40.53	Pk	Horizontal
3992.13	35.83	44.20	7.90	29.70	-6.60	29.23	54.00	-24.77	AV	Horizontal
7235.44	36.71	43.50	11.40	35.50	3.40	40.11	68.20	-28.09	Pk	Vertical
7235.44	34.75	43.50	11.40	35.50	3.40	38.15	54.00	-15.85	AV	Vertical
7218.79	36.60	43.50	11.40	35.50	3.40	40.00	68.20	-28.20	Pk	Horizontal
7218.79	33.84	43.50	11.40	35.50	3.40	37.24	54.00	-16.76	AV	Horizontal
10600.15	39.02	44.50	13.80	38.80	8.10	47.12	74.00	-26.88	Pk	Vertical
10600.15	36.93	44.50	13.80	38.80	8.10	45.03	54.00	-8.97	AV	Vertical
10600.07	39.48	44.50	13.80	38.80	8.10	47.58	74.00	-26.42	Pk	Horizontal
10600.07	35.98	44.50	13.80	38.80	8.10	44.08	54.00	-9.92	AV	Horizontal
11017.80	32.70	43.60	14.30	39.50	10.20	42.90	74.00	-31.10	Pk	Vertical
11017.80	31.09	43.60	14.30	39.50	10.20	41.29	54.00	-12.71	AV	Vertical
11016.79	33.15	43.60	14.30	39.50	10.20	43.35	74.00	-30.65	Pk	Horizontal
11016.79	30.65	43.60	14.30	39.50	10.20	40.85	54.00	-13.15	AV	Horizontal
13294.79	32.32	42.60	15.90	38.90	12.20	44.52	74.00	-29.48	Pk	Vertical
13294.79	29.73	42.60	15.90	38.90	12.20	41.93	54.00	-12.07	AV	Vertical
13285.85	32.56	42.60	15.90	38.90	12.20	44.76	74.00	-29.24	Pk	Horizontal
13285.85	29.23	42.60	15.90	38.90	12.20	41.43	54.00	-12.57	AV	Horizontal



High Channel (802.11/ 5240 MHz)										
3263.63	44.99	44.70	6.70	28.20	-9.80	35.19	74.00	-38.81	Pk	Vertical
3263.63	41.39	44.70	6.70	28.20	-9.80	31.59	54.00	-22.41	AV	Vertical
3259.65	44.55	44.70	6.70	28.20	-9.80	34.75	68.20	-33.45	Pk	Horizontal
3259.65	40.90	44.70	6.70	28.20	-9.80	31.10	54.00	-22.90	AV	Horizontal
3999.56	39.36	44.20	7.90	29.70	-6.60	32.76	74.00	-41.24	Pk	Vertical
3999.56	37.02	44.20	7.90	29.70	-6.60	30.42	54.00	-23.58	AV	Vertical
3985.93	39.47	44.20	7.90	29.70	-6.60	32.87	74.00	-41.13	Pk	Horizontal
3985.93	36.06	44.20	7.90	29.70	-6.60	29.46	54.00	-24.54	AV	Horizontal
7217.79	36.77	43.50	11.40	35.50	3.40	40.17	68.20	-28.03	Pk	Vertical
7217.79	34.03	43.50	11.40	35.50	3.40	37.43	54.00	-16.57	AV	Vertical
7231.98	36.88	43.50	11.40	35.50	3.40	40.28	68.20	-27.92	Pk	Horizontal
7231.98	33.85	43.50	11.40	35.50	3.40	37.25	54.00	-16.75	AV	Horizontal
10640.16	39.56	44.50	13.80	38.80	8.10	47.66	74.00	-26.34	Pk	Vertical
10640.16	36.02	44.50	13.80	38.80	8.10	44.12	54.00	-9.88	AV	Vertical
10640.03	39.74	44.50	13.80	38.80	8.10	47.84	74.00	-26.16	Pk	Horizontal
10640.03	37.09	44.50	13.80	38.80	8.10	45.19	54.00	-8.81	AV	Horizontal
11019.02	34.02	43.60	14.30	39.50	10.20	44.22	74.00	-29.78	Pk	Vertical
11019.02	30.90	43.60	14.30	39.50	10.20	41.10	54.00	-12.90	AV	Vertical
11020.11	34.02	43.60	14.30	39.50	10.20	44.22	74.00	-29.78	Pk	Horizontal
11020.11	30.55	43.60	14.30	39.50	10.20	40.75	54.00	-13.25	AV	Horizontal
13281.95	32.27	42.70	18.00	37.10	12.40	44.67	74.00	-29.33	Pk	Vertical
13281.95	29.00	42.70	18.00	37.10	12.40	41.40	54.00	-12.60	AV	Vertical
13282.96	31.73	42.70	18.00	37.10	12.40	44.13	74.00	-29.87	Pk	Horizontal
13282.96	28.96	42.70	18.00	37.10	12.40	41.36	54.00	-12.64	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 4(5.725-5.85) GHz										
Frequency (MHz)	Reading (dBuV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11/ 5745 MHz)										
3264.36	43.78	44.70	6.70	28.20	-9.80	33.98	74.00	-40.02	Pk	Vertical
3264.36	40.93	44.70	6.70	28.20	-9.80	31.13	54.00	-22.87	AV	Vertical
3259.43	45.00	44.70	6.70	28.20	-9.80	35.20	68.20	-33.00	Pk	Horizontal
3259.43	41.09	44.70	6.70	28.20	-9.80	31.29	54.00	-22.71	AV	Horizontal
3987.11	39.05	44.20	7.90	29.70	-6.60	32.45	74.00	-41.55	Pk	Vertical
3987.11	36.67	44.20	7.90	29.70	-6.60	30.07	54.00	-23.93	AV	Vertical
3984.54	39.95	44.20	7.90	29.70	-6.60	33.35	74.00	-40.65	Pk	Horizontal
3984.54	36.11	44.20	7.90	29.70	-6.60	29.51	54.00	-24.49	AV	Horizontal
7234.90	37.23	43.50	11.40	35.50	3.40	40.63	68.20	-27.57	Pk	Vertical
7234.90	34.77	43.50	11.40	35.50	3.40	38.17	54.00	-15.83	AV	Vertical
7223.42	37.27	43.50	11.40	35.50	3.40	40.67	68.20	-27.53	Pk	Horizontal
7223.42	34.13	43.50	11.40	35.50	3.40	37.53	54.00	-16.47	AV	Horizontal
10514.47	39.78	44.50	13.90	38.80	8.20	47.98	68.20	-20.22	Pk	Vertical
10514.47	36.33	44.50	13.90	38.80	8.20	44.53	54.00	-9.47	AV	Vertical
10514.24	39.07	44.50	13.90	38.80	8.20	47.27	68.20	-20.93	Pk	Horizontal
10514.24	36.57	44.50	13.90	38.80	8.20	44.77	54.00	-9.23	AV	Horizontal
11490.33	33.33	43.60	14.30	39.50	10.20	43.53	74.00	-30.47	Pk	Vertical
11490.33	29.75	43.60	14.30	39.50	10.20	39.95	54.00	-14.05	AV	Vertical
11490.08	33.32	43.60	14.30	39.50	10.20	43.52	74.00	-30.48	Pk	Horizontal
11490.08	30.63	43.60	14.30	39.50	10.20	40.83	54.00	-13.17	AV	Horizontal
13282.70	32.75	42.60	15.90	38.90	12.20	44.95	74.00	-29.05	Pk	Vertical
13282.70	29.82	42.60	15.90	38.90	12.20	42.02	54.00	-11.98	AV	Vertical
13281.65	31.83	42.60	15.90	38.90	12.20	44.03	74.00	-29.97	Pk	Horizontal
13281.65	29.57	42.60	15.90	38.90	12.20	41.77	54.00	-12.23	AV	Horizontal
Mid Channel (802.11/ 5785 MHz)										
3246.49	44.72	44.70	6.70	28.20	-9.80	34.92	68.20	-33.28	Pk	Vertical
3246.49	41.91	44.70	6.70	28.20	-9.80	32.11	54.00	-21.89	AV	Vertical
3253.27	44.46	44.70	6.70	28.20	-9.80	34.66	68.20	-33.54	Pk	Horizontal
3253.27	41.55	44.70	6.70	28.20	-9.80	31.75	54.00	-22.25	AV	Horizontal
3987.54	38.95	44.20	7.90	29.70	-6.60	32.35	74.00	-41.65	Pk	Vertical
3987.54	36.98	44.20	7.90	29.70	-6.60	30.38	54.00	-23.62	AV	Vertical
3992.67	38.85	44.20	7.90	29.70	-6.60	32.25	74.00	-41.75	Pk	Horizontal
3992.67	36.80	44.20	7.90	29.70	-6.60	30.20	54.00	-23.80	AV	Horizontal
7233.58	36.62	43.50	11.40	35.50	3.40	40.02	68.20	-28.18	Pk	Vertical
7233.58	33.75	43.50	11.40	35.50	3.40	37.15	54.00	-16.85	AV	Vertical
7236.21	36.48	43.50	11.40	35.50	3.40	39.88	68.20	-28.32	Pk	Horizontal
7236.21	34.06	43.50	11.40	35.50	3.40	37.46	54.00	-16.54	AV	Horizontal
10595.14	39.14	44.50	13.80	38.80	8.10	47.24	68.20	-20.96	Pk	Vertical
10595.14	35.75	44.50	13.80	38.80	8.10	43.85	54.00	-10.15	AV	Vertical
10599.60	38.76	44.50	13.80	38.80	8.10	46.86	68.20	-21.34	Pk	Horizontal
10599.60	36.08	44.50	13.80	38.80	8.10	44.18	54.00	-9.82	AV	Horizontal
11570.40	32.89	43.60	14.30	39.50	10.20	43.09	74.00	-30.91	Pk	Vertical
11570.40	30.02	43.60	14.30	39.50	10.20	40.22	54.00	-13.78	AV	Vertical
11570.42	32.98	43.60	14.30	39.50	10.20	43.18	74.00	-30.82	Pk	Horizontal
11570.42	30.72	43.60	14.30	39.50	10.20	40.92	54.00	-13.08	AV	Horizontal
13286.99	32.94	42.60	15.90	38.90	12.20	45.14	74.00	-28.86	Pk	Vertical
13286.99	28.56	42.60	15.90	38.90	12.20	40.76	54.00	-13.24	AV	Vertical
13282.37	31.99	42.60	15.90	38.90	12.20	44.19	74.00	-29.81	Pk	Horizontal
13282.37	28.56	42.60	15.90	38.90	12.20	40.76	54.00	-13.24	AV	Horizontal



High Channel (802.11/ 5825 MHz)										
3246.52	44.61	44.70	6.70	28.20	-9.80	34.81	68.20	-33.39	Pk	Vertical
3246.52	41.20	44.70	6.70	28.20	-9.80	31.40	54.00	-22.60	AV	Vertical
3256.51	44.46	44.70	6.70	28.20	-9.80	34.66	68.20	-33.54	Pk	Horizontal
3256.51	41.52	44.70	6.70	28.20	-9.80	31.72	54.00	-22.28	AV	Horizontal
3989.73	39.40	44.20	7.90	29.70	-6.60	32.80	74.00	-41.20	Pk	Vertical
3989.73	36.94	44.20	7.90	29.70	-6.60	30.34	54.00	-23.66	AV	Vertical
3985.62	39.80	44.20	7.90	29.70	-6.60	33.20	74.00	-40.80	Pk	Horizontal
3985.62	37.09	44.20	7.90	29.70	-6.60	30.49	54.00	-23.51	AV	Horizontal
7229.46	37.43	43.50	11.40	35.50	3.40	40.83	68.20	-27.37	Pk	Vertical
7229.46	33.43	43.50	11.40	35.50	3.40	36.83	54.00	-17.17	AV	Vertical
7218.43	36.54	43.50	11.40	35.50	3.40	39.94	68.20	-28.26	Pk	Horizontal
7218.43	34.58	43.50	11.40	35.50	3.40	37.98	54.00	-16.02	AV	Horizontal
10632.28	39.12	44.50	13.80	38.80	8.10	47.22	74.00	-26.78	Pk	Vertical
10632.28	36.89	44.50	13.80	38.80	8.10	44.99	54.00	-9.01	AV	Vertical
10640.23	39.87	44.50	13.80	38.80	8.10	47.97	74.00	-26.03	Pk	Horizontal
10640.23	36.21	44.50	13.80	38.80	8.10	44.31	54.00	-9.69	AV	Horizontal
11650.31	33.37	43.60	14.30	39.50	10.20	43.57	74.00	-30.43	Pk	Vertical
11650.31	31.06	43.60	14.30	39.50	10.20	41.26	54.00	-12.74	AV	Vertical
11650.27	33.92	43.60	14.30	39.50	10.20	44.12	74.00	-29.88	Pk	Horizontal
11650.27	30.16	43.60	14.30	39.50	10.20	40.36	54.00	-13.64	AV	Horizontal
13293.53	31.89	42.70	18.00	37.10	12.40	44.29	74.00	-29.71	Pk	Vertical
13293.53	28.63	42.70	18.00	37.10	12.40	41.03	54.00	-12.97	AV	Vertical
13280.94	31.63	42.70	18.00	37.10	12.40	44.03	74.00	-29.97	Pk	Horizontal
13280.94	29.79	42.70	18.00	37.10	12.40	42.19	54.00	-11.81	AV	Horizontal

Remark:

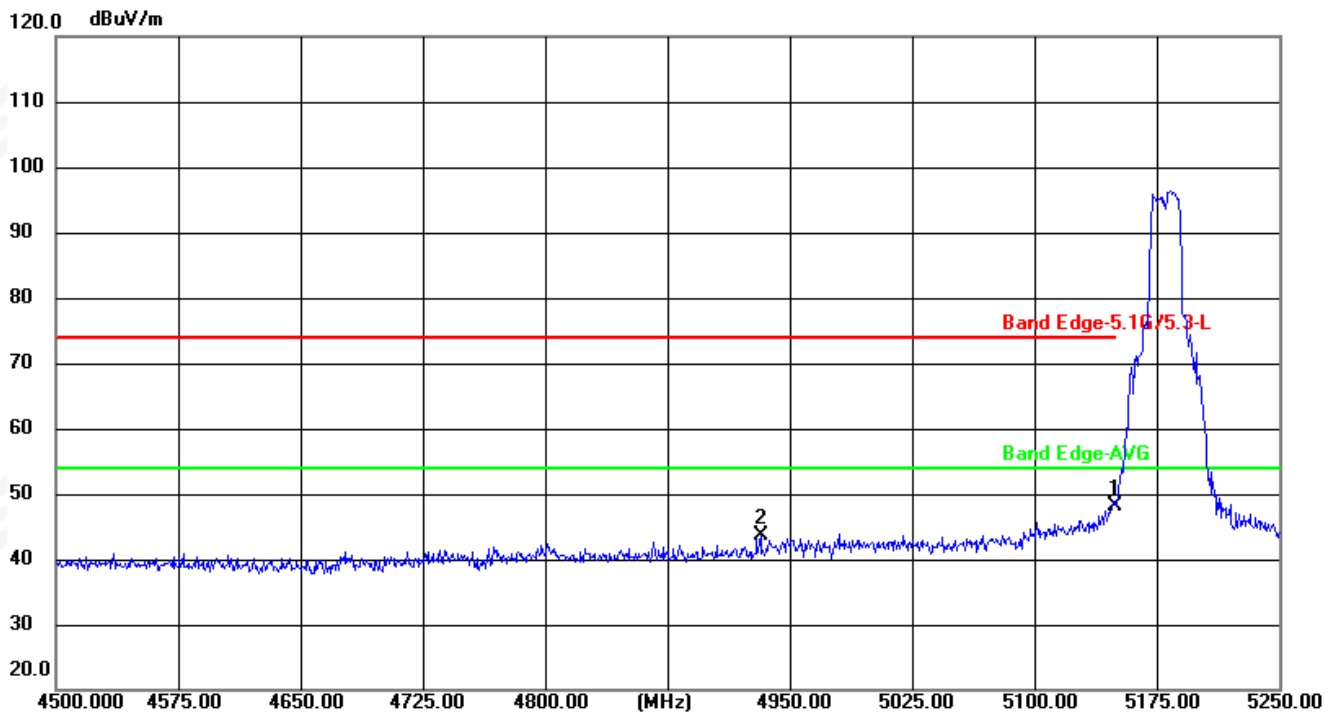
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



3.2.9 TEST RESULTS(Band edge Requirements)

U-NII-1 (5.150-5.2500) GHz

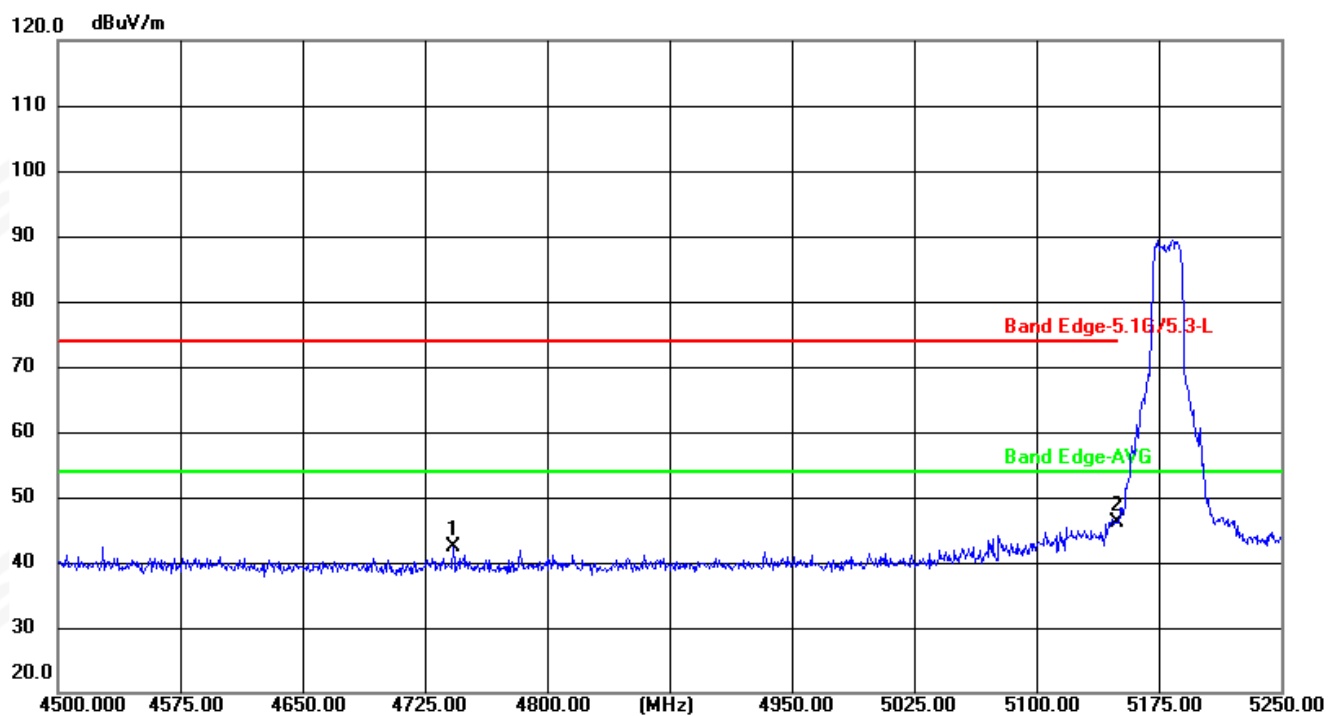
802.11n20-5180- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5150.000	68.32	-20.21	48.11	74.00	-25.89	peak
2	4932.000	64.62	-20.94	43.68	74.00	-30.32	peak



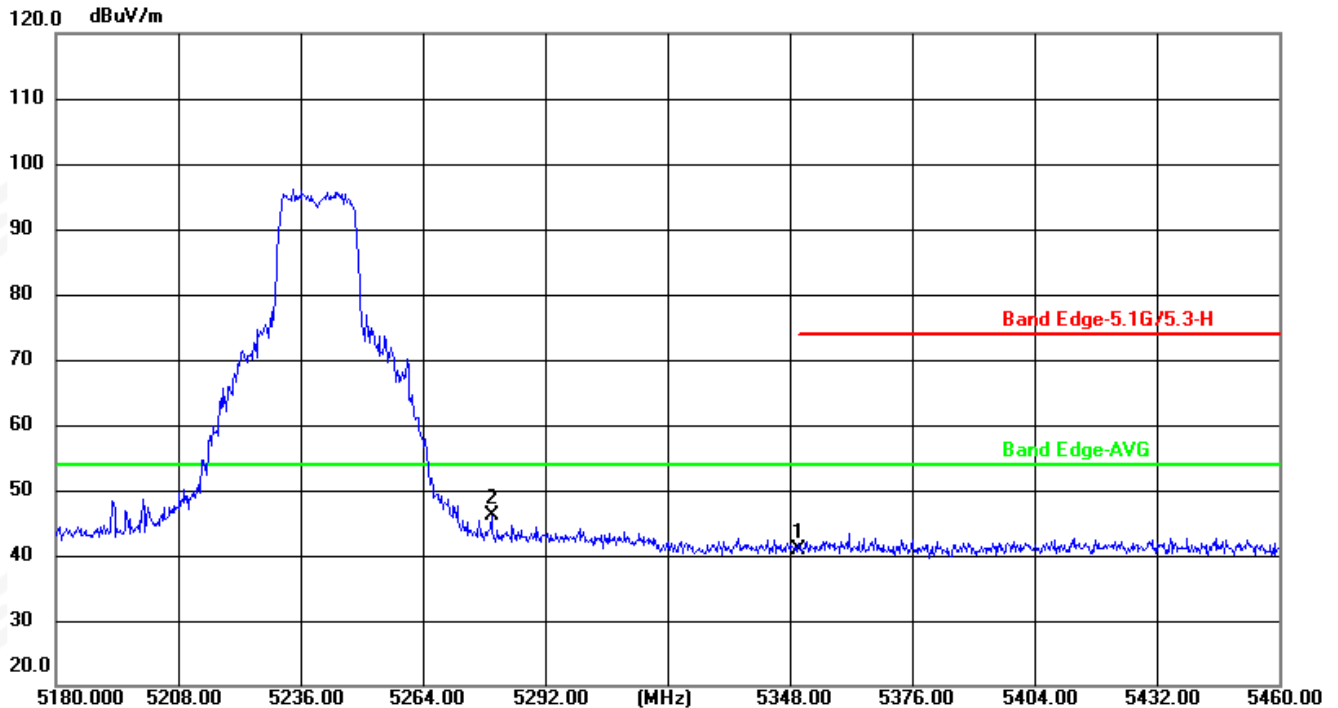
802.11n20-5180- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4742.250	63.31	-21.05	42.26	74.00	-31.74	peak
2 *	5150.000	66.35	-20.21	46.14	74.00	-27.86	peak



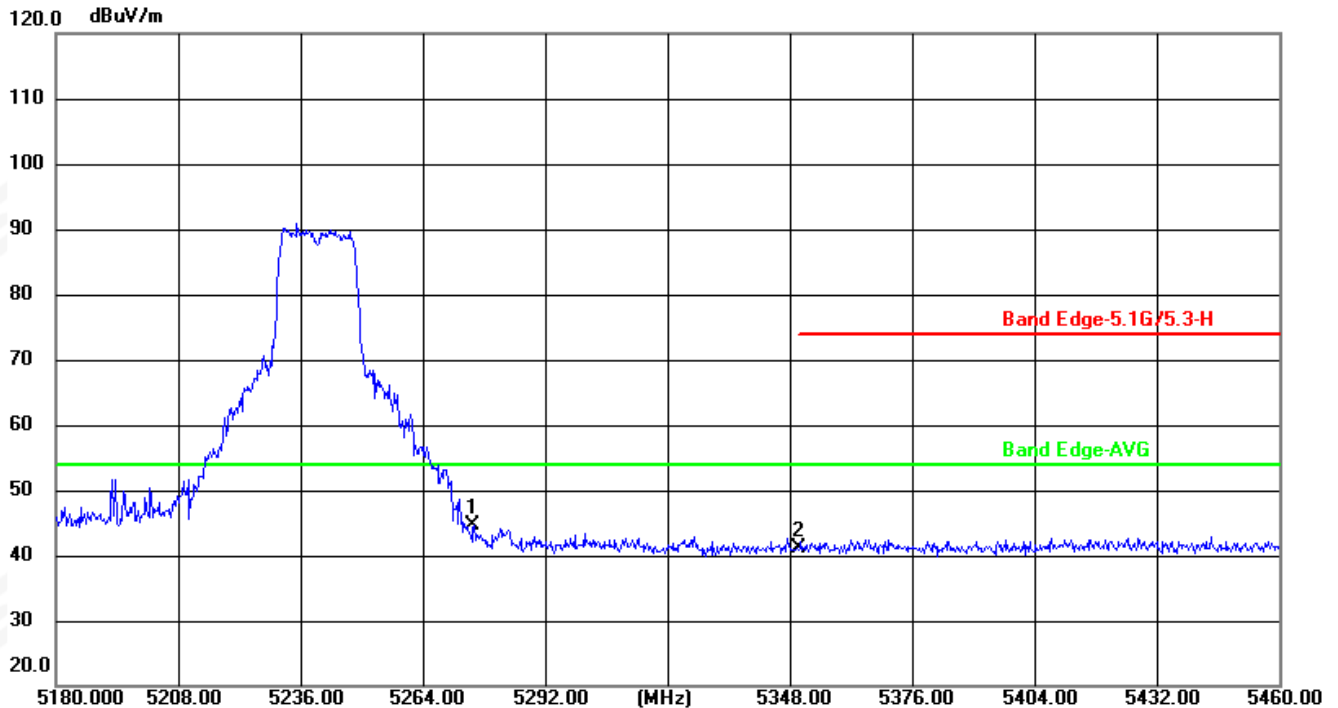
802.11n20-5240- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	60.13	-19.29	40.84	74.00	-33.16	peak
2 *	5279.680	65.86	-19.61	46.25	74.00	-27.75	peak



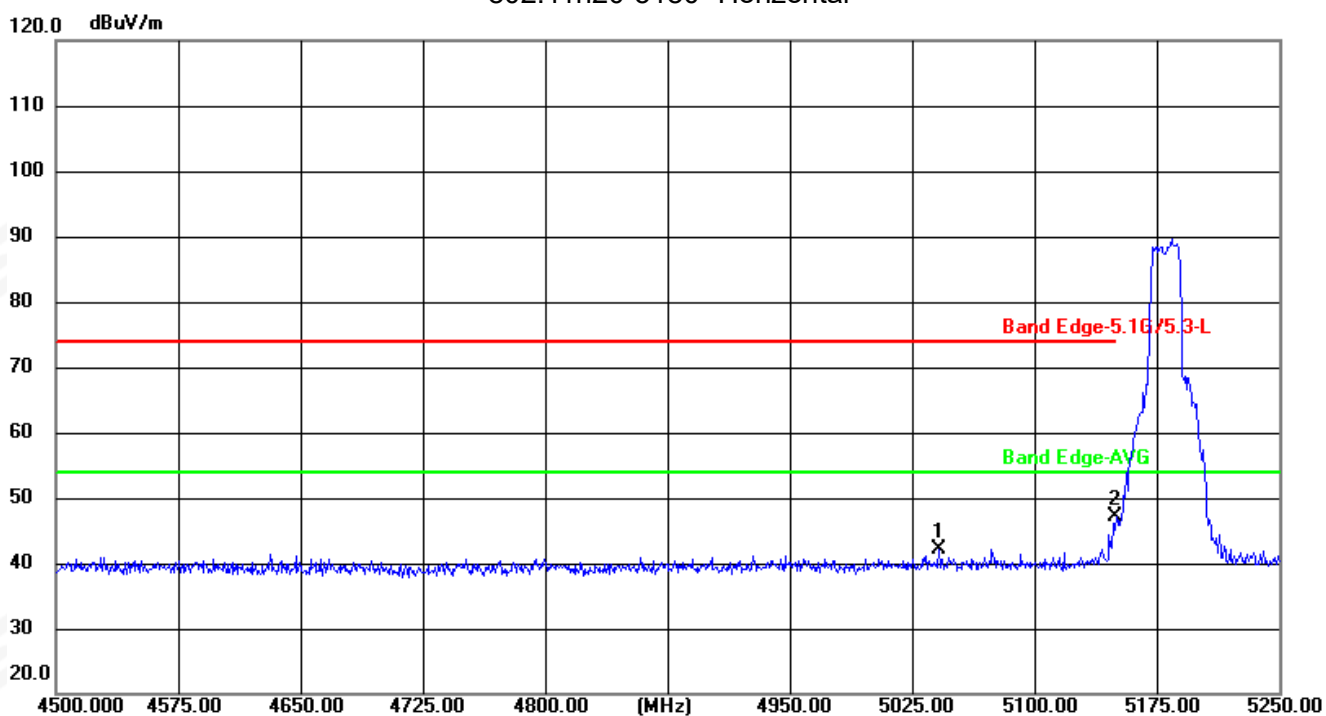
802.11n20-5240- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5275.760	64.19	-19.63	44.56	74.00	-29.44	peak
2	5350.000	60.47	-19.29	41.18	74.00	-32.82	peak

Remark:

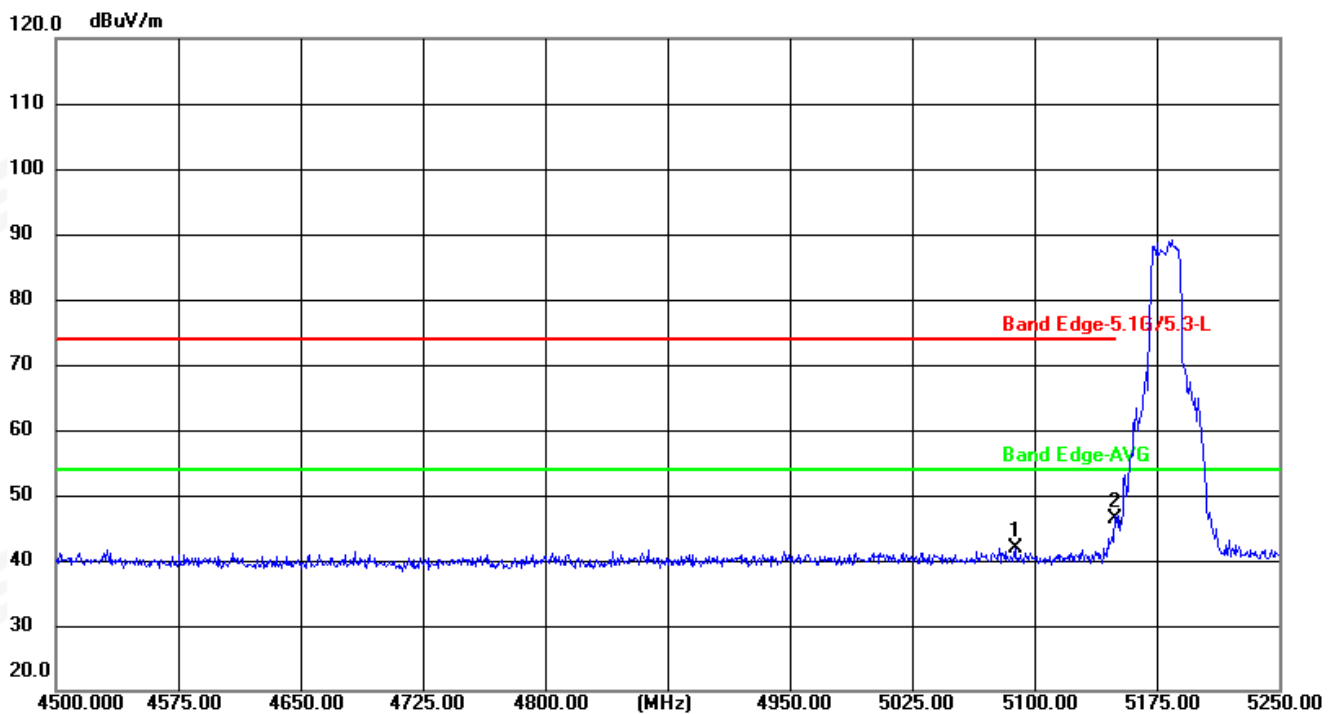
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported. (Antenna 1)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5041.500	62.96	-20.71	42.25	74.00	-31.75	peak
2 *	5150.000	67.42	-20.21	47.21	74.00	-26.79	peak



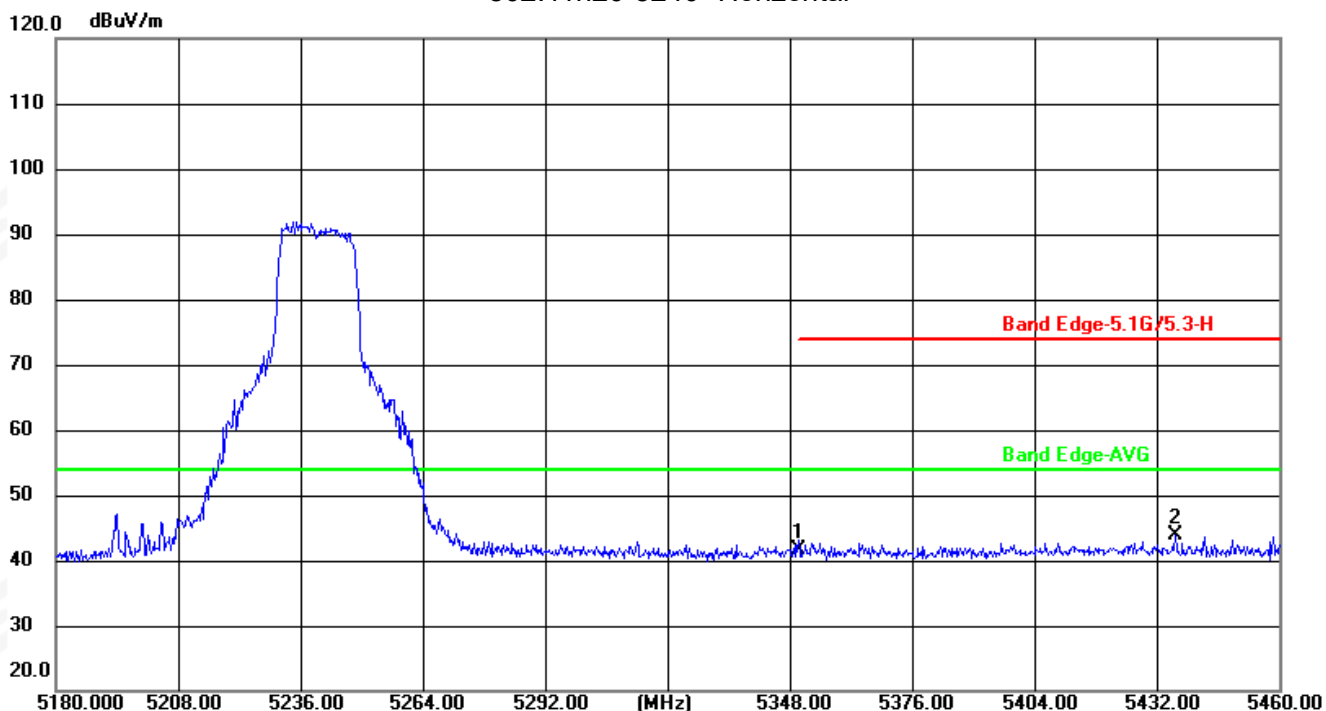
802.11n20-5180- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5088.000	62.41	-20.50	41.91	74.00	-32.09	peak
2 *	5150.000	66.67	-20.21	46.46	74.00	-27.54	peak



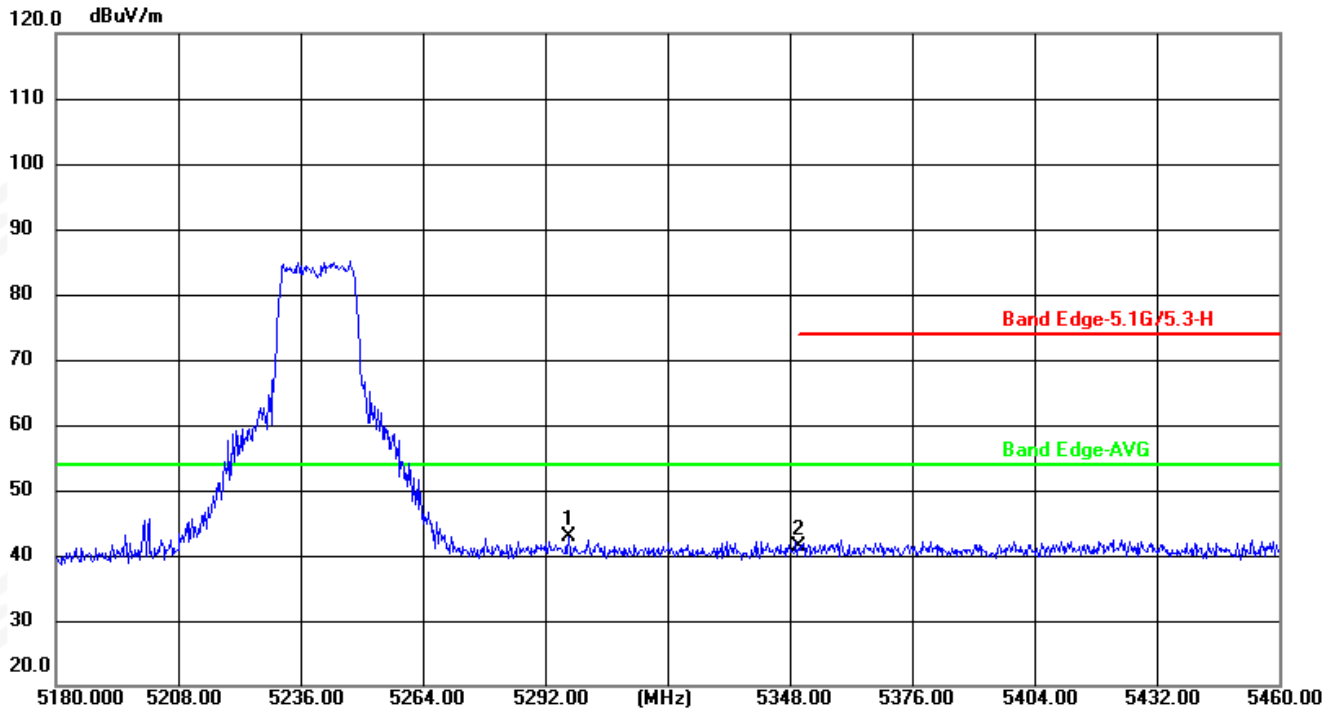
802.11n20-5240- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	60.82	-19.29	41.53	74.00	-32.47	peak
2 *	5436.200	62.67	-18.89	43.78	74.00	-30.22	peak



802.11n20-5240- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5297.320	62.32	-19.53	42.79	74.00	-31.21	peak
2	5350.000	60.76	-19.29	41.47	74.00	-32.53	peak

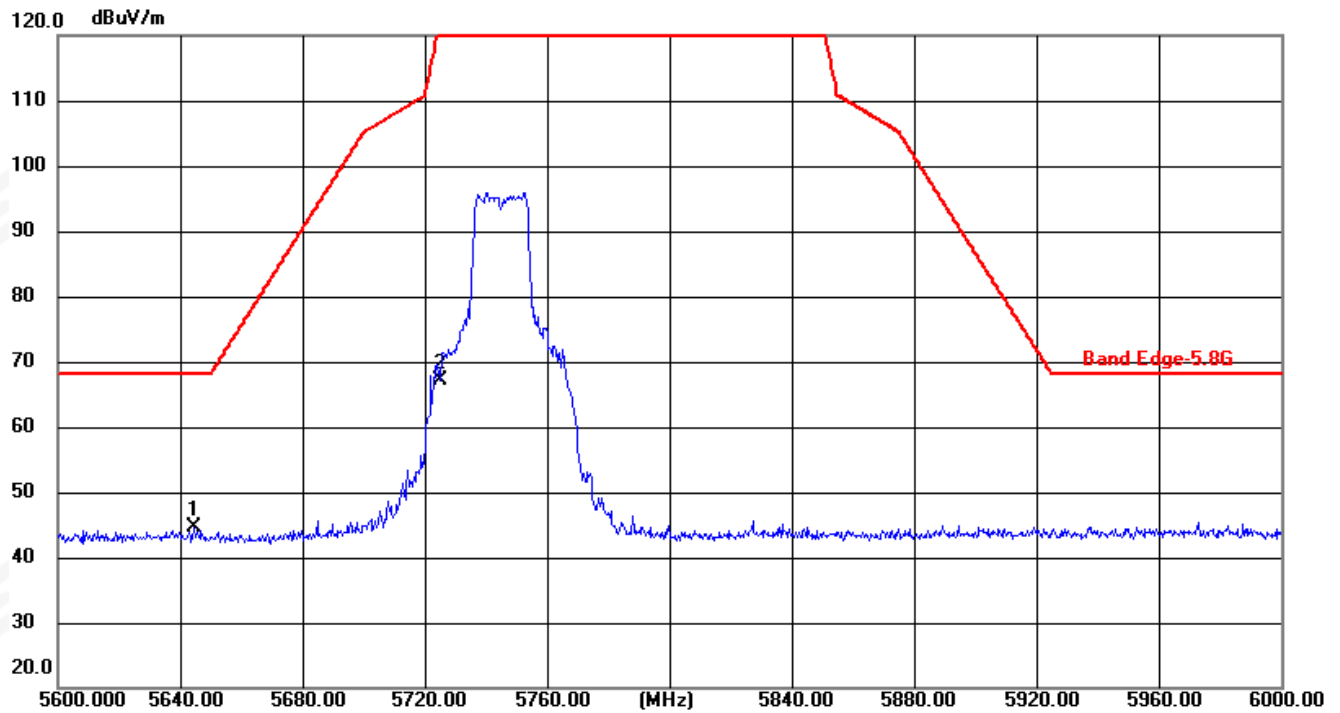
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, only worst mode was reported. (Antenna 2)



U-NII-3 (5.725-5.850) GHz

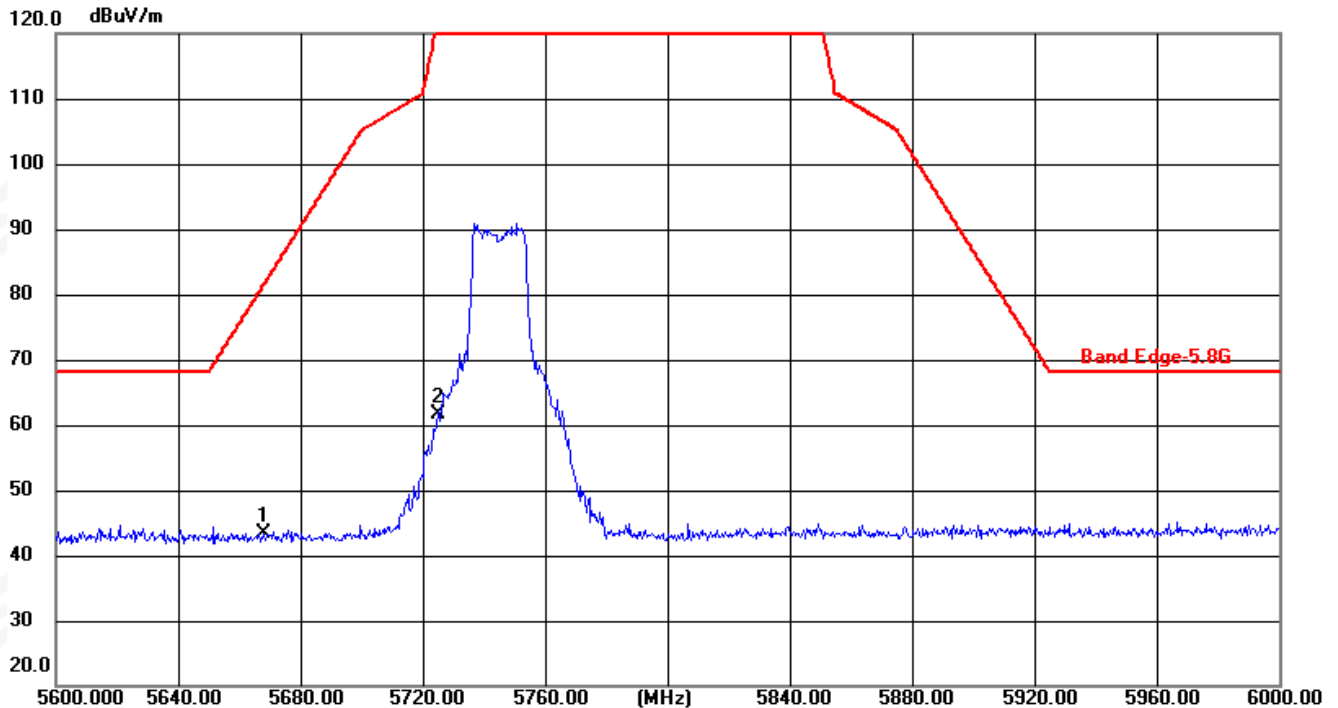
802.11n20-5745- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5644.400	63.10	-18.51	44.59	68.20	-23.61	peak
2	5725.000	85.62	-18.46	67.16	122.20	-55.04	peak



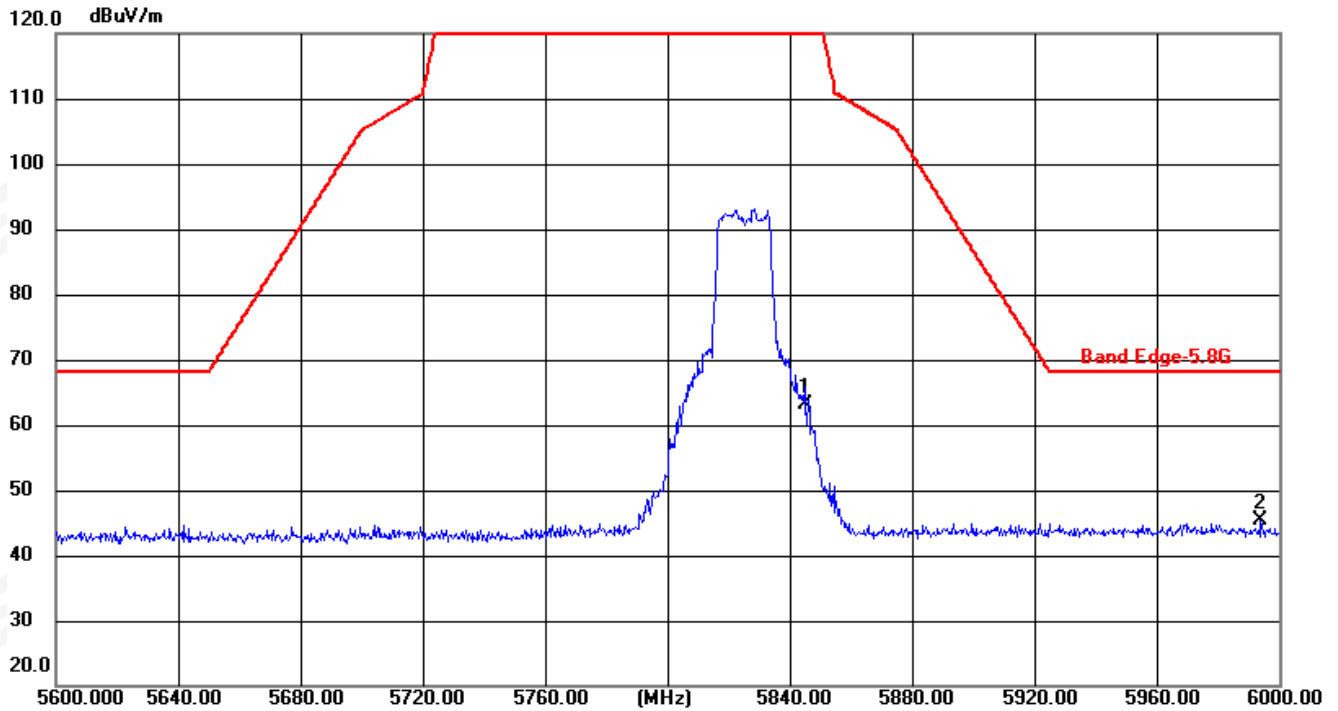
802.11n20-5745- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5668.000	61.84	-18.50	43.34	81.56	-38.22	peak
2	5725.000	80.20	-18.46	61.74	122.20	-60.46	peak



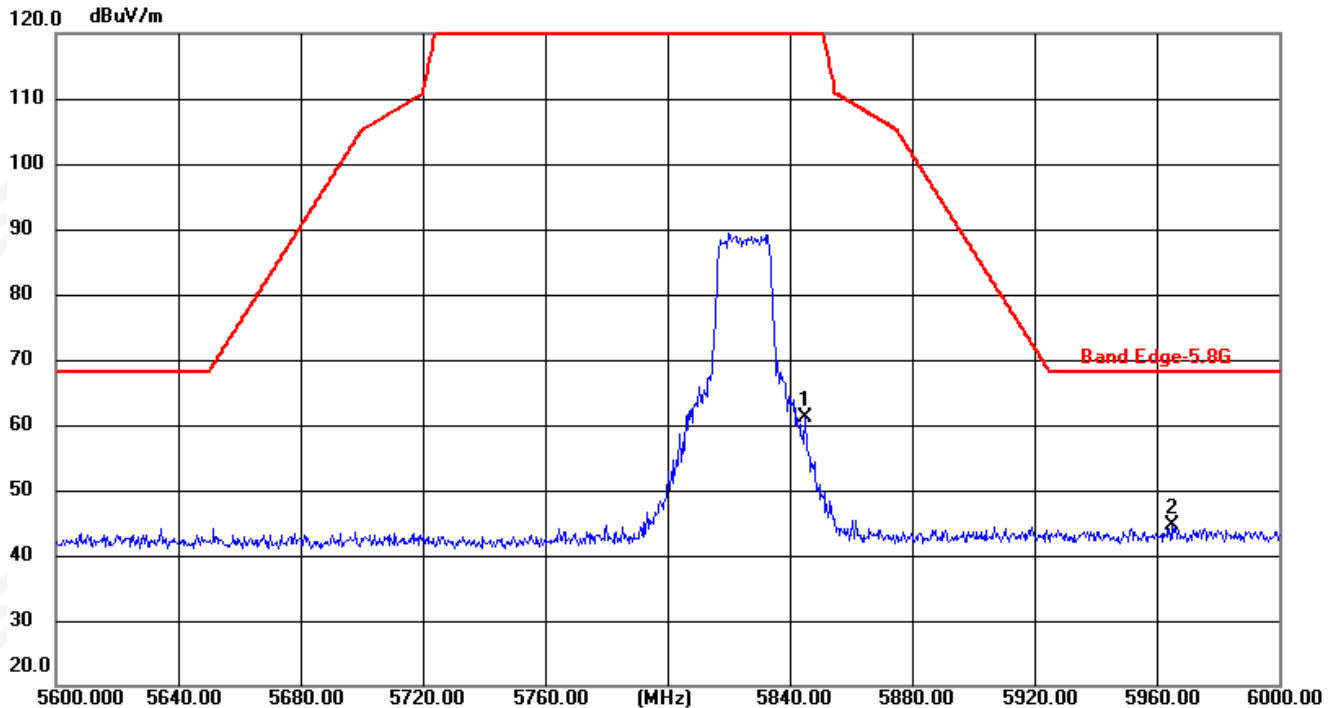
802.11n20-5825- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5845.000	81.63	-18.39	63.24	122.20	-58.96	peak
2 *	5994.000	63.69	-18.30	45.39	68.20	-22.81	peak



802.11n20-5825- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5845.000	79.64	-18.39	61.25	122.20	-60.95	peak
2 *	5964.800	62.94	-18.32	44.62	68.20	-23.58	peak

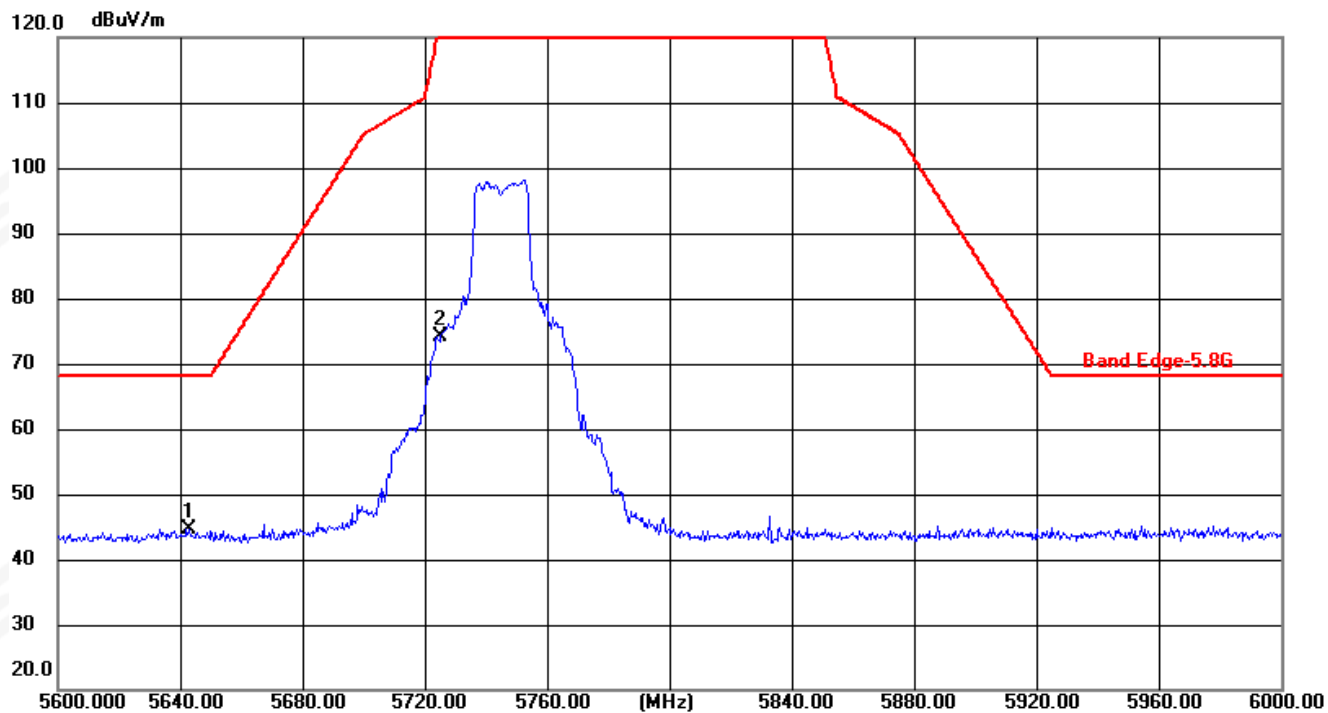
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. All modes have been measurement, only worst mode was reported. (Antenna 1)



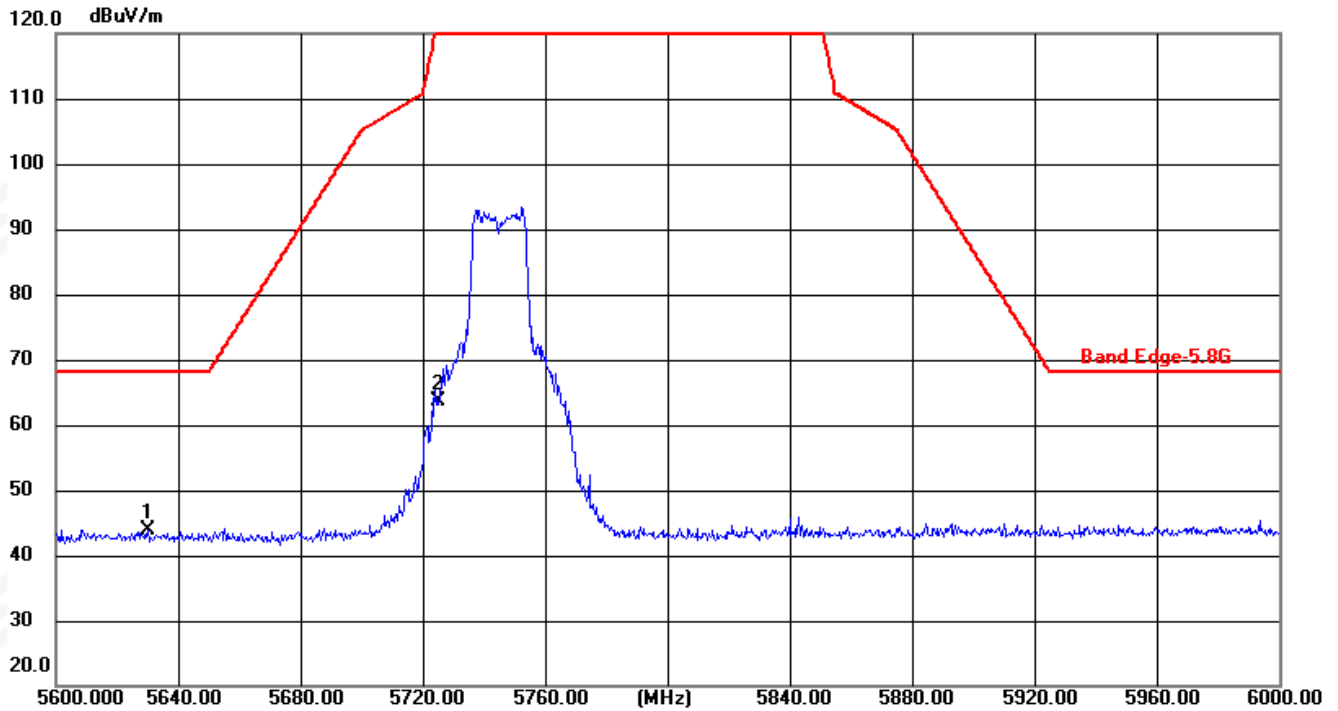
802.11n20-5745- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5642.800	63.11	-18.51	44.60	68.20	-23.60	peak
2	5725.000	92.58	-18.46	74.12	122.20	-48.08	peak



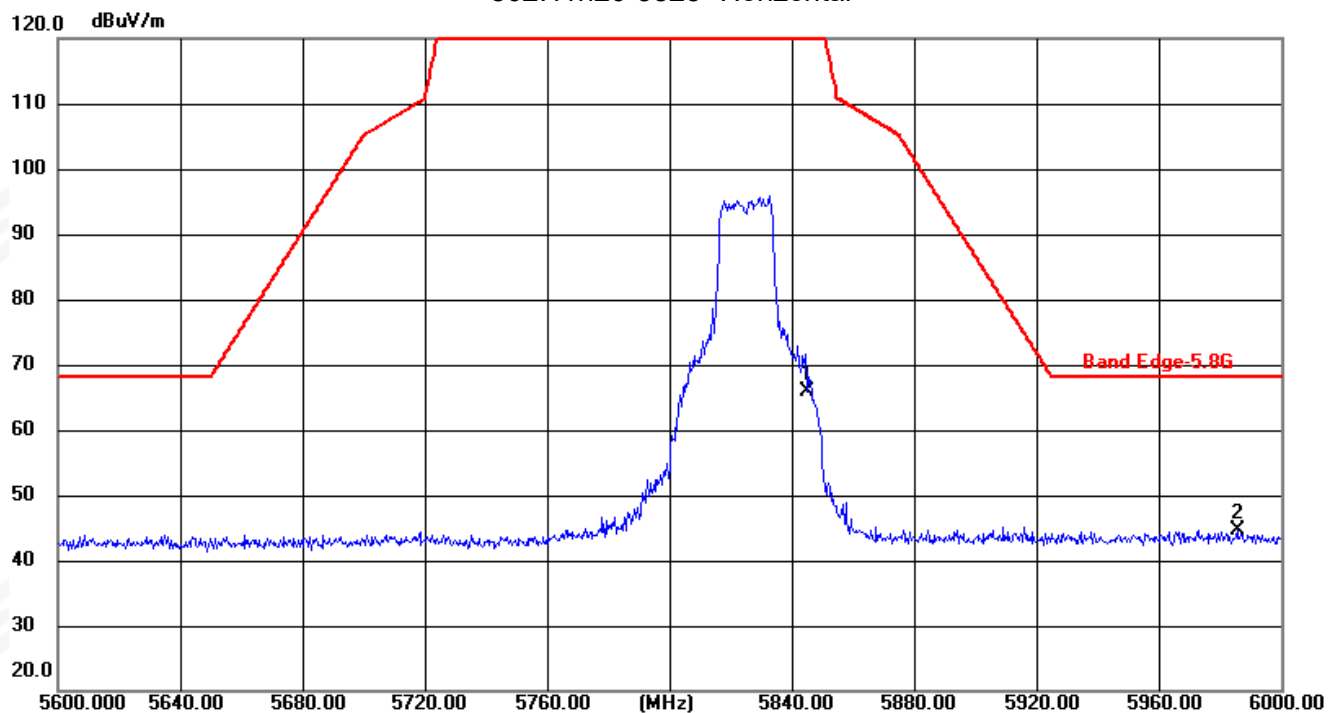
802.11n20-5745- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5630.000	62.29	-18.52	43.77	68.20	-24.43	peak
2	5725.000	82.03	-18.46	63.57	122.20	-58.63	peak



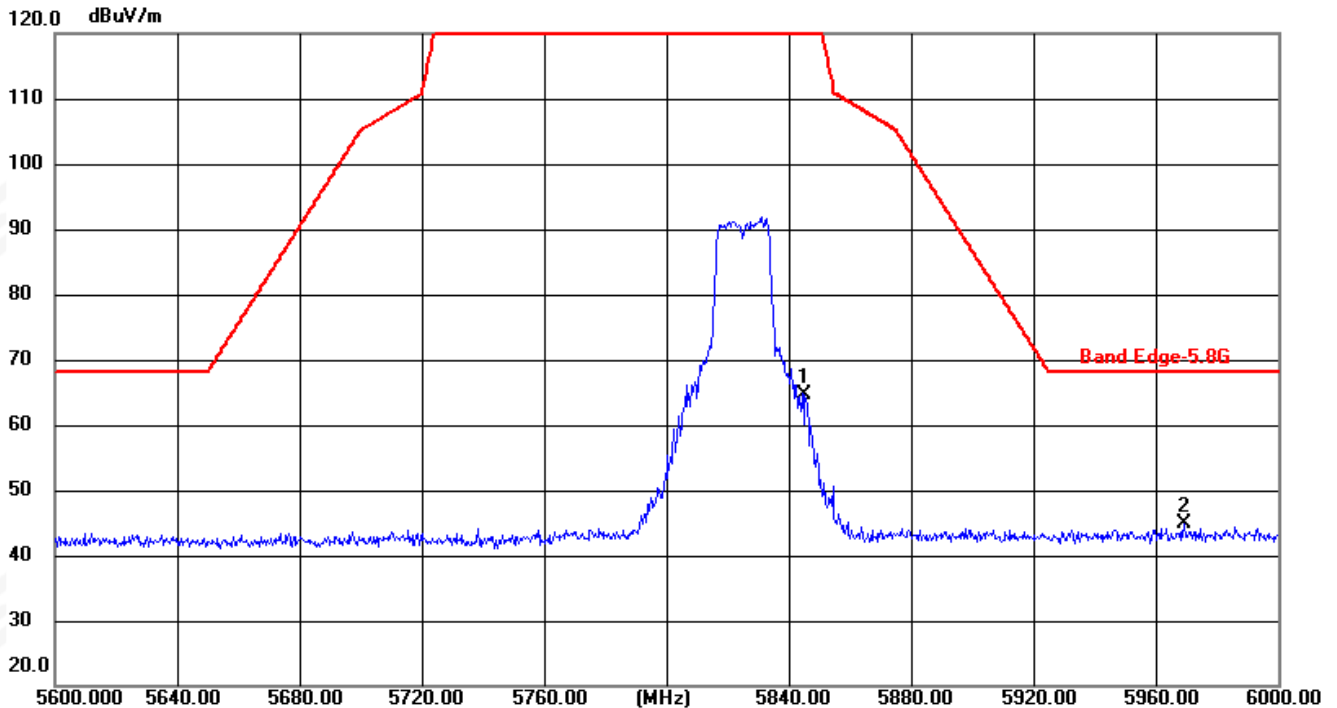
802.11n20-5825- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5845.000	84.21	-18.39	65.82	122.20	-56.38	peak
2 *	5985.600	62.96	-18.31	44.65	68.20	-23.55	peak



802.11n20-5825- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5845.000	83.13	-18.39	64.74	122.20	-57.46	peak
2 *	5969.200	63.16	-18.32	44.84	68.20	-23.36	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. All modes have been measurement, only worst mode was reported. (Antenna 2)



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 External 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*****