

Test Report

Product name : LED TV

Trademark : PHILIPS

Model no...... : 43E3FQ

Series Model(s)..... : A7A01G, 43PQF7676/F6 A, 43PQF7676/F6,
43PQF7676/F7, 43PQF7656/F7, 43PQF7656/F8

FCC ID : 2ANM343E3FQ

Report No : C260605034-RF04

Test Standards : CFR47 FCC Part 15: Subpart E Section 15.407
CFR47 FCC Part 15: Subpart C Section 15.207
CFR47 FCC Part 15: Subpart C Section 15.209

Applicant..... : Shenzhen Chuangwei-RGB Electronics Co., Ltd.

Address of applicant : 13F-16F, Unit A, Skyworth Building, Shennan Road, Nanshan
District, Shenzhen, Guangdong, China.

Manufacturer..... : Shenzhen Chuangwei-RGB Electronics Co., Ltd.

Manufacturer Address..... : 13F-16F, Unit A, Skyworth Building, Shennan Road, Nanshan
District, Shenzhen, Guangdong, China.

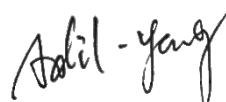
Date of Test Date..... : Jun 05, 2026 to Aug 28, 2026

Date of issue. : Sep 16, 2026

Test result..... : Compliance

Prepared By

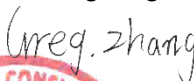
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Adil Yang/Engineer

Reviewed By

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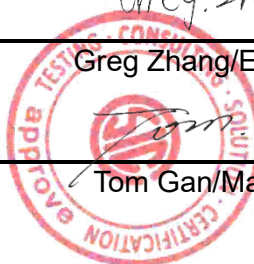
Greg Zhang/Engineer

Approved By

:



Tom Gan/Manager



The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of preparer, reviewer and approver. Any objections must be raised to CSIC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

Revision History

Rev.	Issue Date	Description	Note	Revised By
R00	Sep 16, 2026	Original Report	Valid	Adil Yang

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1. TEST SUMMARY

1.1. TEST DESCRIPTION

Test procedures according to the technical standards:

Item	Clause	Result	Note
Conducted Emission on AC Mains	Part 15.207(a)	PASS	
Radiated Spurious Emission	Part 15.407(b) Part 15.205 Part 15.209	PASS	
Maximum Conducted Output Power	Part 15.407(a)	PASS	
Conducted Power Spectral Density	Part 15.407(a)	PASS	
6dB Bandwidth	Part 15.407(e)	PASS	
26dB Bandwidth	Part 15.407(e)	PASS	
Frequency Stability	Part 15.407(g)	PASS	
Dynamic Frequency Selection (DFS)	Part 15.407(h)	PASS	
Antenna Requirement	Part 15.407(b)(4) Part 15.203	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) The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
- 4) The information of measurement uncertainty is available upon the customer's request.

1.2. TEST FACILITY

Shenzhen Central Standard International Center Co., Ltd. (CSIC)

Room 201, Building 1, Mogen Fashion Industrial Park, No. 10, Shilongzai Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen.

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

CNAS Registration No.: L11671

FCC Registration No.: 0031378433 Designation Number: CN1317

IC CAB identifier: CN0051

A2LA Lab Cert. No.: 6426.01

1.3. MEASUREMENT UNCERTAINTY

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Below is the best measurement capability for Shenzhen Central Standard International Center Co., Ltd.

Test Items	Measurement Uncertainty	Notes
RF output power, conducted	$\pm 1.06\text{dB}$	(1)
Unwanted Emissions, conducted	$\pm 1.32\text{dB}$	(1)
All emissions, radiated 9KHz-30MHz	$\pm 4.86\text{dB}$	(1)
All emissions, radiated 30-1GHz	$\pm 4.86\text{dB}$	(1)
All emissions, radiated 1G-6GHz	$\pm 5.08\text{dB}$	(1)
All emissions, radiated >6G	$\pm 5.30\text{dB}$	(1)
Conducted Emission (9KHz-150KHz)	$\pm 3.18\text{dB}$	(1)
Conducted Emission (150KHz-30MHz)	$\pm 3.20\text{dB}$	(1)

Note(1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

EUT(Product Specifications)	
Product Name:	LED TV
Model No.:	43E3FQ
Series Models:	A7A01G, 43PQF7676/F6 A, 43PQF7676/F6, 43PQF7676/F7, 43PQF7656/F7, 43PQF7656/F8
Power supply:	AC 120V ~ , 60Hz
Hardware version:	43PQF7676/F6 A
Software version:	Win7_MP_Kit_RTL11n_8723FU_USB_v0.39_20221019
WIFI-5G (RF Specifications)	
Operating Frequency	5150MHz to 5250MHz, 5250MHz to 5350MHz, 5470MHz to 5725MHz, 5725MHz to 5850MHz
Channel number:	U-NII-1: IEEE 802.11a/n(HT20): 4 IEEE 802.11n(HT40): 2 U-NII-2A: IEEE 802.11a/n(HT20): 4 IEEE 802.11n(HT40): 2 U-NII-2C: IEEE 802.11a/ n(HT20): 11 IEEE 802.11n(HT40): 5 U-NII-3: IEEE 802.11a/ n(HT20): 5 IEEE 802.11n(HT40): 2
Channel Spacing	20MHz, 40MHz
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Type of Product	Adaptive equipment and does not support non-adaptive mode: LBT based Detect and Avoid (load-based equipment)
Type of Product	Slave Device
TX Power Control (TPC)	Not Supported
Antenna Type	PIFA
Antenna Gain	4.54dBi for U-NII-1, 4.57dBi for U-NII-2A, 4.85dBi for U-NII-2C, 5.37dBi for U-NII-3
Remark:	

Note:

1. For a more detailed features description, please refer to the manufacture's specifications or the user's manual.
2. Full tests were applied to sample C260605034-Y01/01 only in this document.

2.2. DESCRIPTION OF TEST MODES AND TEST FREQUENCY

The EUT has been tested under typical operating conditions. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting mode for testing.

Operation Frequency List:

Frequency Band	Bandwidth	Channel	Frequency (MHz)
U-NII-1	20MHz	36	5180
		40	5200
		44	5220
		48	5240
	40MHz	38	5190
		46	5230
U-NII-2A	20MHz	52	5260
		56	5280
		60	5300
		64	5320
	40MHz	54	5270
		62	5310
U-NII-2C	20MHz	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
		140	5700
	40MHz	102	5510
		110	5550
		118	5590
		126	5630
		134	5670
U-NII-3	20MHz	149	5745
		153	5765
		157	5785
		165	5825
	40MHz	151	5755
		159	5795

2.3. MEASUREMENT INSTRUMENTS LIST

RF Conducted measurement					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY50200391	May. 15, 2027
2	Vector Signal Generator	Agilent	N5182A	MY50140130	May. 15, 2027
3	Signal Generator	R&S	SMCV100B	103780	May. 15, 2027
4	MIMO power meter	KEYSIGHT	U2021XA	MY55080015	May. 15, 2027
5	Automatic control unit	MW	MW100-RFCB	MY54250020	May. 18, 2027
6	Programmable constant temperature and humidity chamber	Angui	AG1000L	2304061049	Jun. 15, 2027
7	MTS 8310E	MW	V 2.0.0.0		
RF Radiated measurement					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESRP3	101936	May. 15, 2027
2	Spectrum Analyzer	R&S	FSV40	101401	Feb.25, 2027
3	Bilog Antenna	Sunol	JB1	N/A	Jul.10, 2027
4	Horn Antenna	COMMW	ZAB-1-18G-50	20171109	May.16, 2028
5	Horn Antenna	COMMW	ZLB7-18-40G-777	N/A	Feb.28, 2027
6	Amplifier	COMMW	DLNA-30-1000-01	122417799	May 15, 2027
7	Amplifier	COMMW	DPA8-1000-18000-1012	8220837	Feb.25, 2027
8	Amplifier	SKET	LNPA_1840-50	SK201801801	Mar.03, 2027
9	Band Reject Filters	MICRO TRONICS	BRM 50702-02	006	May.20, 2027
10	Band Reject Filters	COMMW	ZBSF-C5500-800-168	N/A	May.20, 2027
11	Cable 6m-1	XINQY	XQY-CLA520-NJ-SMAJ-6M	25051772	May.20, 2027
12	Cable 1m	JunCoax	JA800-NMSM-1M	N/A	May.20, 2027
13	Cable-005	SUCOFLEX	104PEA4M	N/A	May.20, 2027
14	3M Chamber	Maor	9*6*6	--	Aug.15, 2028
15	EZ-EMC	Farad	V3.1		
Mains Terminal Disturbance Voltage Test equipment					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI3	101413	Feb.25, 2027
2	LISN	R&S	ENV216	100002	May.16, 2027
3	LISN	MEB	NNB 42	---	May.16, 2027
4	Cable 1.8m-1	XINQY	XQY-CMR200-NJ-BNCJ-1.8M	---	May.20, 2027
5	Shelding Room	Maor	8*4*3	--	Aug.14, 2028
6	EZ-EMC	Fara	V3.1		

Note: The cable loss has calculated in test result which connection between each test instruments.

2.4. DESCRIPTION OF THE 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 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11n HT20 CH36&CH40&CH48	6.5 Mbps
Mode 3	TX IEEE 802.11a CH52&CH60&CH64	6 Mbps
Mode 4	TX IEEE 802.11n HT20 CH52&CH60&CH64	6.5 Mbps
Mode 5	TX IEEE 802.11a CH100&CH116&CH140	6 Mbps
Mode 6	TX IEEE 802.11n HT20 CH100&CH116&CH140	6.5 Mbps
Mode 7	TX IEEE 802.11a CH149&CH157&CH165	6 Mbps
Mode 8	TX IEEE 802.11n HT20 CH149&CH157&CH165	6.5 Mbps
Mode 9	TX IEEE 802.11n HT40 CH38&CH46	13.5 Mbps
Mode 10	TX IEEE 802.11n HT40 CH54&CH62	13.5 Mbps
Mode 11	TX IEEE 802.11n HT40 CH102&CH110&CH134	13.5 Mbps
Mode 12	TX IEEE 802.11n HT40 CH151&CH159	13.5 Mbps

Note:

- 1) The measurements are performed at the high, middle, low available channels.
- 2) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- 3) This test was performed with EUT in X, Y, Z position and worst case was found when EUT in X position.
- 4) For radiated emission above 1 GHz test, 1GHz-40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

2.5. 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.

Test Software Version	MP Version 0.0001,1020.2018		
Frequency	5180MHz	5200MHz	5240MHz
802.11a	15	15	15
802.11n(HT20)	14	14	14
Frequency	5190MHz		5230MHz
802.11n(HT40)	12		12
Frequency	5260MHz	5300MHz	5320MHz
802.11a	15	15	14
802.11n(HT20)	14	14	14
Frequency	5270MHz		5310MHz
802.11n(HT40)	12		12
Frequency	5500MHz	5580MHz	5700MHz
802.11a	14	14	14
802.11n(HT20)	14	14	14
Frequency	5510MHz	5550MHz	5670MHz
802.11n(HT40)	12	12	12
Frequency	5745MHz	5785MHz	5825MHz
802.11a	14	14	14
802.11n(HT20)	14	14	14
Frequency	5755MHz		5795MHz
802.11n(HT40)	12		12

2.6. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.7. 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.

Necessary accessories					
Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units					
Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	DELL	Vostro 3400	N/A	N/A
E-3	Router	GL iNet	GL-MT3000	N/A	N/A
C-1	RJ45 Cable	N/A	100cm	N/A	N/A

Note:

- 1) The support equipment was authorized by Declaration of Confirmation.
- 2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- 3) The Router FCC ID: 2AFIW-MT3000; IC: 23019-MT3000.

2.8. ENVIRONMENTAL CONDITIONS FOR TESTING

Test Item	Temperature (°C)	Relative Humidity (%)	Test Voltage	Tested by
Conducted Emission on AC Mains	24.0	69.0	AC 120V 60Hz	Max Ran
Radiated Spurious Emission	25.8	68.0	AC 120V 60Hz	Max Ran
Conducted Spurious Emissions Measured in 100 kHz Bandwidth	25.9	58.0	AC 120V 60Hz	Max Ran
Conducted Power Spectral Density	25.9	58.0	AC 120V 60Hz	Max Ran
99% Bandwidth	25.9	58.0	AC 120V 60Hz	Max Ran
6dB Bandwidth	25.9	58.0	AC 120V 60Hz	Max Ran
Maximum Conducted Output Power	25.9	58.0	AC 120V 60Hz	Max Ran

3. EMC TEST

3.1. Conducted Emission on AC Mains Measurement

Limit

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50

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.

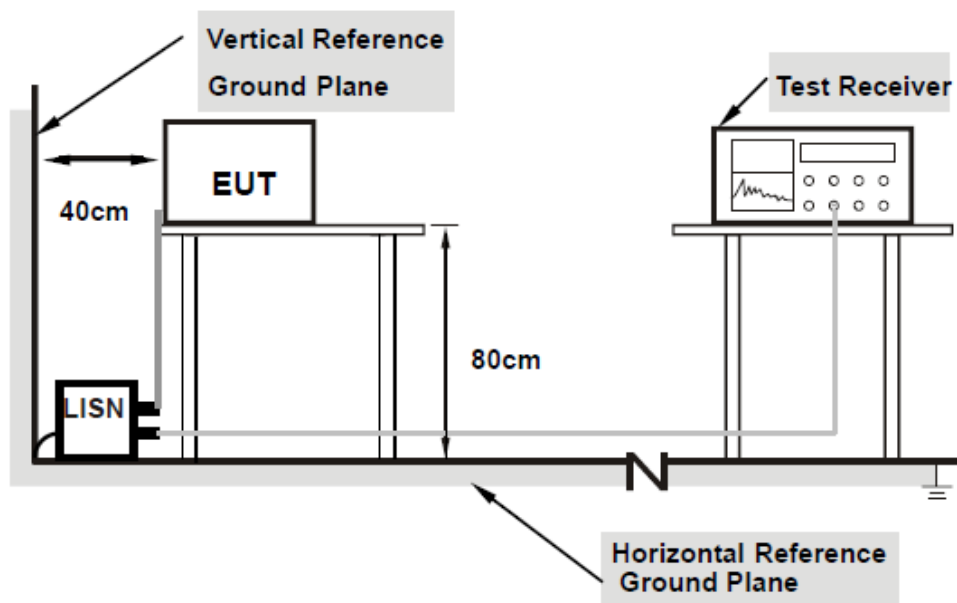
The following table is the setting of the receiver

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

Test Procedure

- a) The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment's powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b) 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.
- c) 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.
- d) LISN at least 80 cm from nearest part of EUT chassis.
- e) For the actual test configuration, please refer to the related Item –EUT Test Photos.

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 from other units and other metal planes

EUT OPERATING CONDITIONS

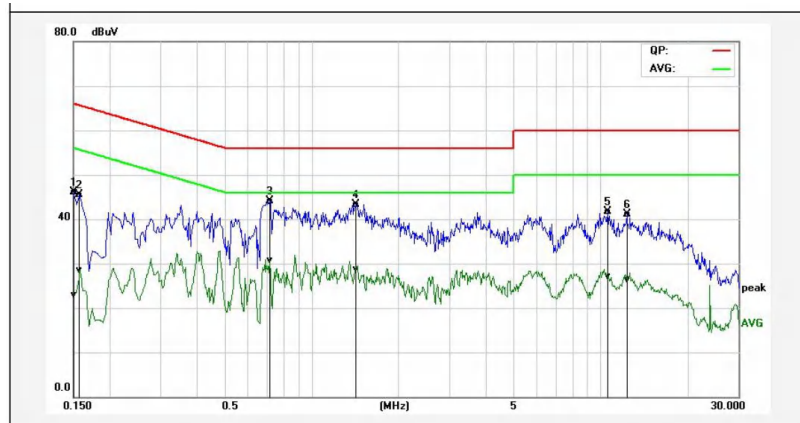
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

Test Results

Note: All modes have been tested, and the report only reflects the worst mode.

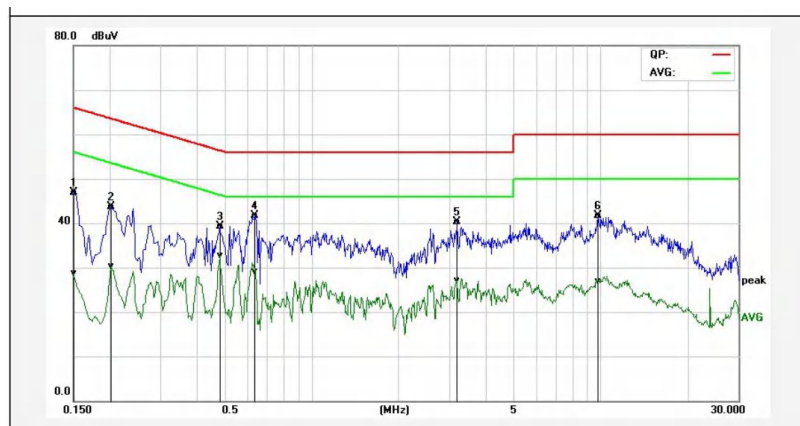
Test Mode :	Mode 8	Test Voltage :	AC 120V/60Hz
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L



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1500	35.59	12.27	10.56	46.15	22.83	65.99	56.00	-19.84	-33.17	Pass
2P	0.1580	34.98	17.98	10.55	45.53	28.53	65.56	55.57	-20.03	-27.04	Pass
3*	0.7180	33.89	20.48	10.23	44.12	30.71	56.00	46.00	-11.88	-15.29	Pass
4P	1.4260	33.42	18.87	9.93	43.35	28.80	56.00	46.00	-12.65	-17.20	Pass
5P	10.5740	31.97	17.29	9.79	41.76	27.08	60.00	50.00	-18.24	-22.92	Pass
6P	12.3340	31.21	16.51	9.81	41.02	26.32	60.00	50.00	-18.98	-23.68	Pass

N



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1500	36.39	18.13	10.56	46.95	28.69	65.99	56.00	-19.04	-27.31	Pass
2P	0.2020	33.12	19.85	10.49	43.61	30.34	63.52	53.53	-19.91	-23.19	Pass
3*	0.4820	28.88	22.24	10.39	39.27	32.63	56.30	46.30	-17.03	-13.67	Pass
4P	0.6380	31.45	18.81	10.28	41.73	29.09	56.00	46.00	-14.27	-16.91	Pass
5P	3.1980	30.55	17.36	9.74	40.29	27.10	56.00	46.00	-15.71	-18.90	Pass
6P	9.8540	31.99	17.17	9.78	41.77	26.95	60.00	50.00	-18.23	-23.05	Pass

Correction Factor = insertion loss of LISN + cable loss;

Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit

3.2. Radiated Spurious Emission Measurement

Limit

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

For FCC:

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 (1GHz-25 GHz)

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

Notes:

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

LIMITS OF RESTRICTED FREQUENCY BANDS

For FCC:

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			

For Radiated Emission	
Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AVG
Start Frequency	9 KHz/150KHz(Peak/QP/AVG)
Stop Frequency	150KHz/30MHz(Peak/QP/AVG)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz);
	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz)
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz
Attenuation	Auto
Detector	Peak/AVG
Start Frequency	1000 MHz(Peak/AVG)
Stop Frequency	10th carrier hamonic(Peak/AVG)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak)
	1 MHz/1/T MHz(AVG)
For Restricted band	
Spectrum Parameter	Setting
Detector	Peak/AVG
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz
	Upper Band Edge: 2476 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak)
	1 MHz/1/T MHz(AVG)
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for Peak & AVG
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for Peak & AVG
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

Test Procedure

- a) The measuring distance of 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 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees 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 polarizations 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 then QuasiPeak detector mode re-measured.
- e) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f) For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

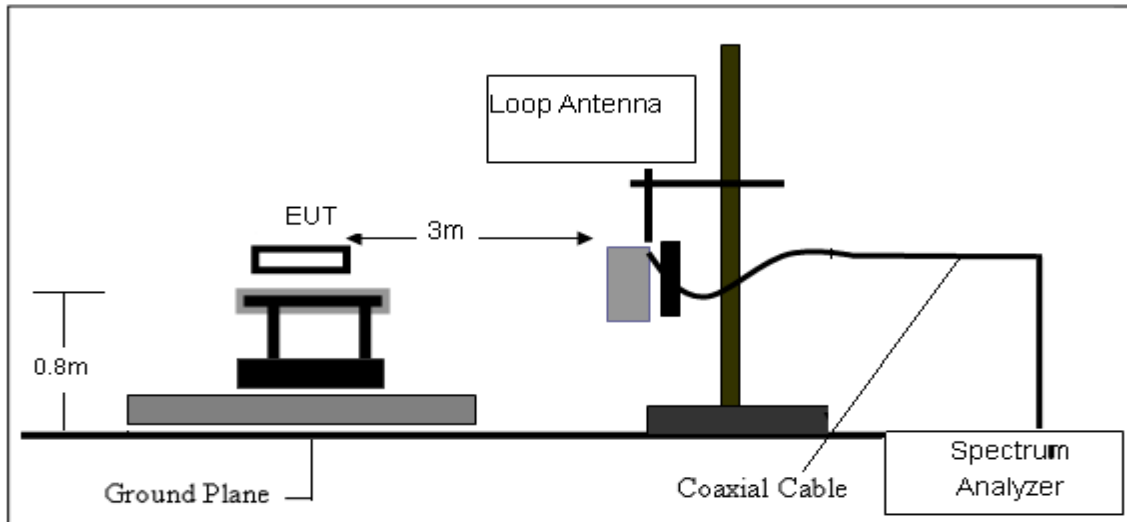
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

DEVIATION FROM TEST STANDARD

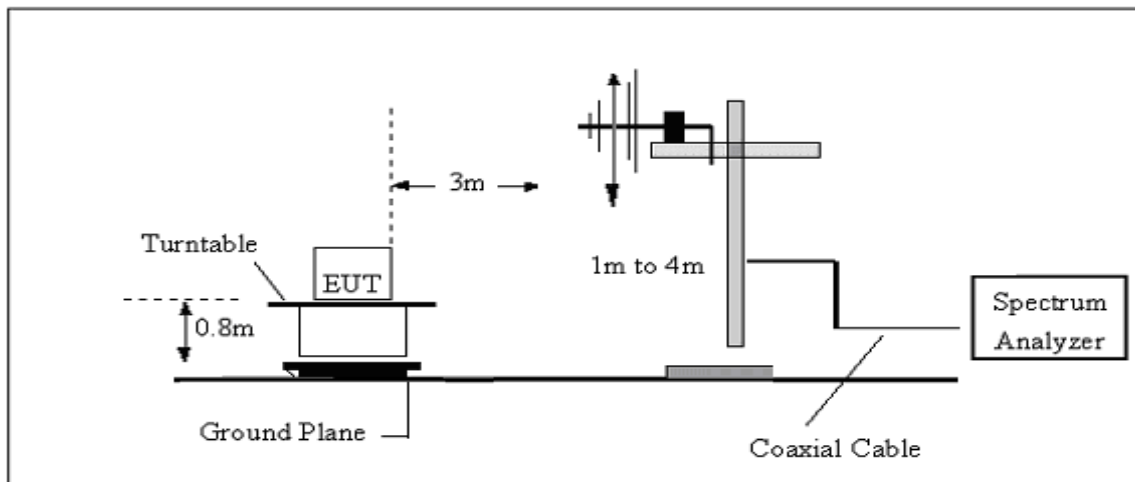
No deviation.

Test Setup

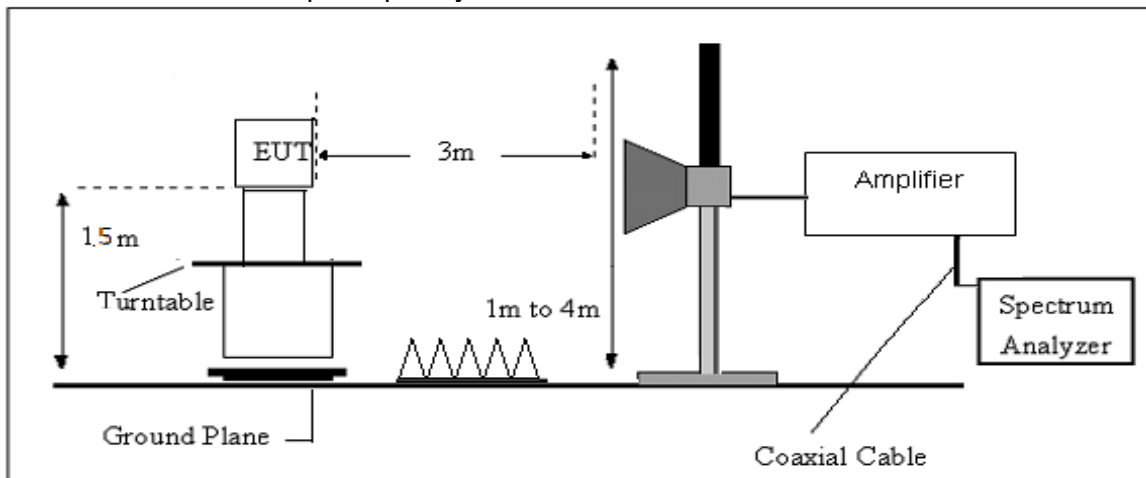
1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency Below 1GHz



3. Radiated Emission Test-Up Frequency Above 1GHz



EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.5 Unless otherwise a special operating condition is specified in the follows during the testing.

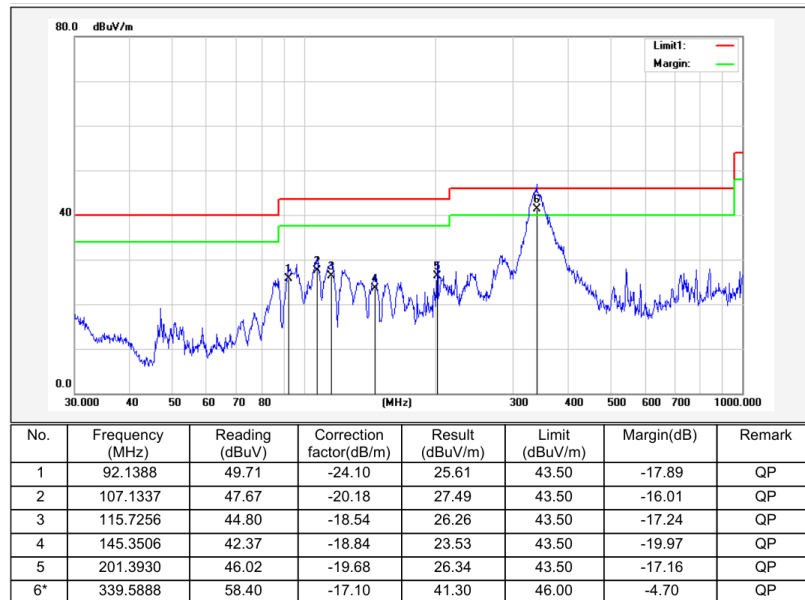
Test Result

Below 1GHz:

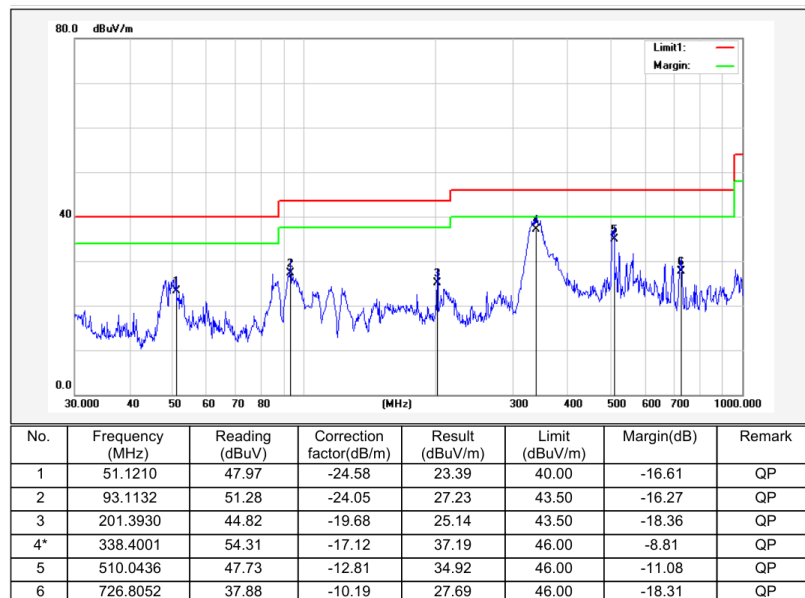
All modes have been tested, and the report only reflects the worst mode.

Test Mode: Mode 8

Horizontal



Vertical



Correction Factor = antenna factor + cable loss – amplifier gain;

Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit.

Above 1GHz :

Note:

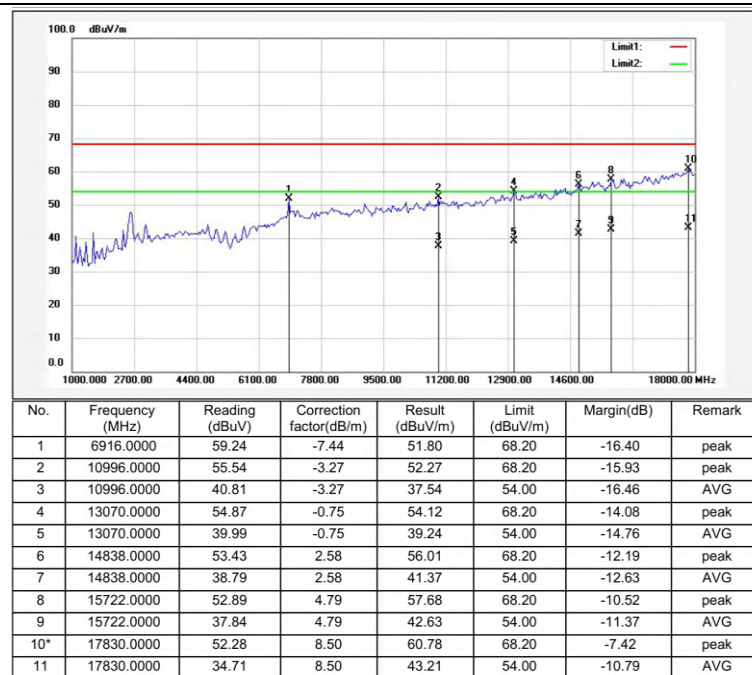
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

The margin values corresponding to all frequency points are less than 20dB=74dBuV/m - 54dBuV/m, meeting the 54dBuV/m requirement, no average test is performed.

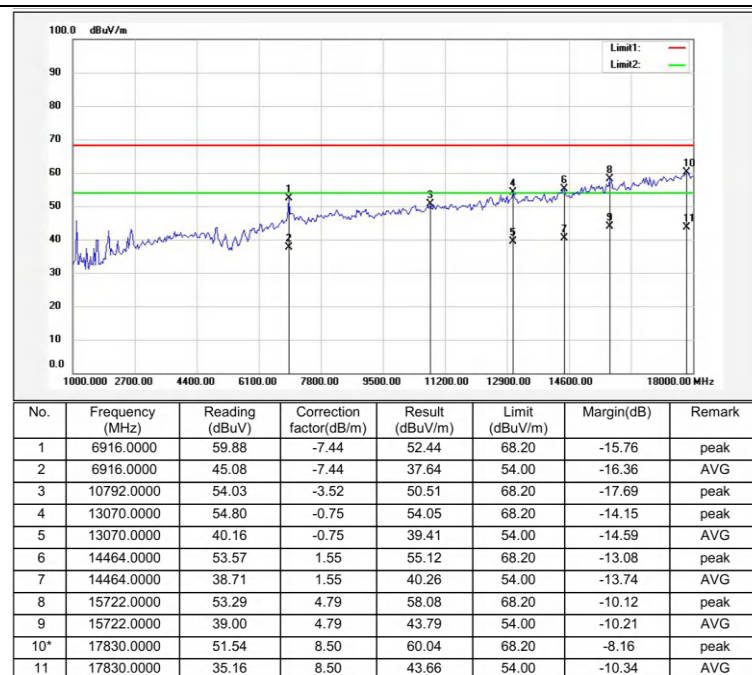
All models were tested, and only the worst model (802.11n(HT20)) were reported in the report.

Test Mode: 802.11n(HT20) U-NII-1 Low

Horizontal



Vertical



Correction Factor = antenna factor + cable loss – amplifier gain;

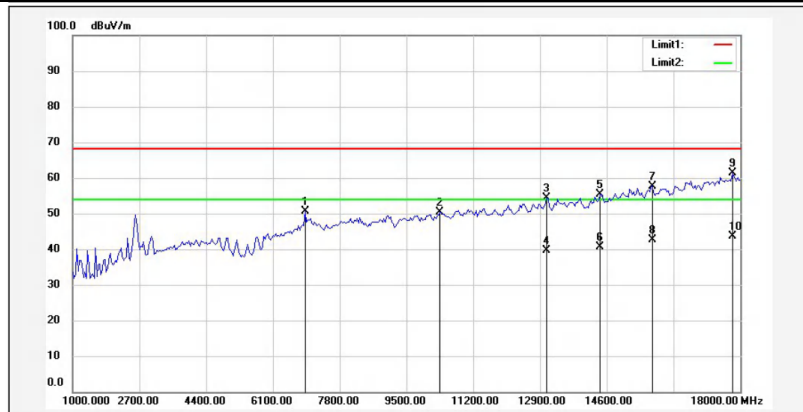
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit.

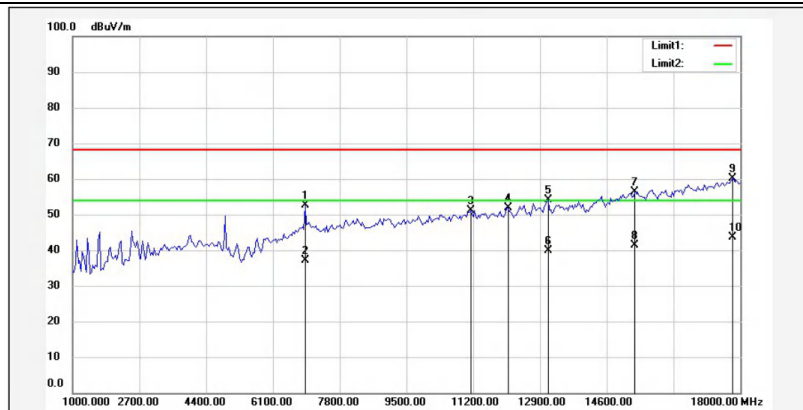
Test Mode:	802.11n(HT20) U-NII-1 Middle
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Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	6916.0000	57.95	-7.44	50.51	68.20	-17.69	peak
2	10350.0000	54.59	-4.09	50.50	68.20	-17.70	peak
3	13070.0000	55.21	-0.75	54.46	68.20	-13.74	peak
4	13070.0000	40.26	-0.75	39.51	54.00	-14.49	AVG
5	14430.0000	53.98	1.46	55.44	68.20	-12.76	peak
6	14430.0000	39.26	1.46	40.72	54.00	-13.28	AVG
7	15756.0000	52.69	4.91	57.60	68.20	-10.60	peak
8	15756.0000	37.74	4.91	42.65	54.00	-11.35	AVG
9*	17796.0000	52.86	8.44	61.30	68.20	-6.90	peak
10	17796.0000	35.29	8.44	43.73	54.00	-10.27	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	6916.0000	60.15	-7.44	52.71	68.20	-15.49	peak
2	6916.0000	44.69	-7.44	37.25	54.00	-16.75	AVG
3	11132.0000	54.18	-3.12	51.06	68.20	-17.14	peak
4	12084.0000	54.28	-2.41	51.87	68.20	-16.33	peak
5	13104.0000	54.88	-0.70	54.18	68.20	-14.02	peak
6	13104.0000	40.53	-0.70	39.83	54.00	-14.17	AVG
7	15314.0000	52.71	3.73	56.44	68.20	-11.76	peak
8	15314.0000	37.65	3.73	41.38	54.00	-12.62	AVG
9*	17796.0000	51.68	8.44	60.12	68.20	-8.08	peak
10	17796.0000	35.21	8.44	43.65	54.00	-10.35	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

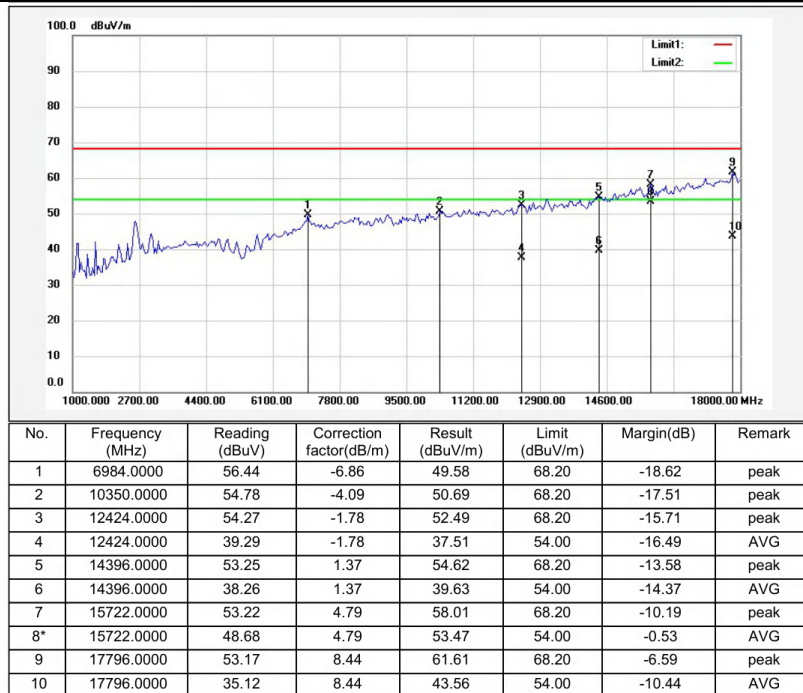
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

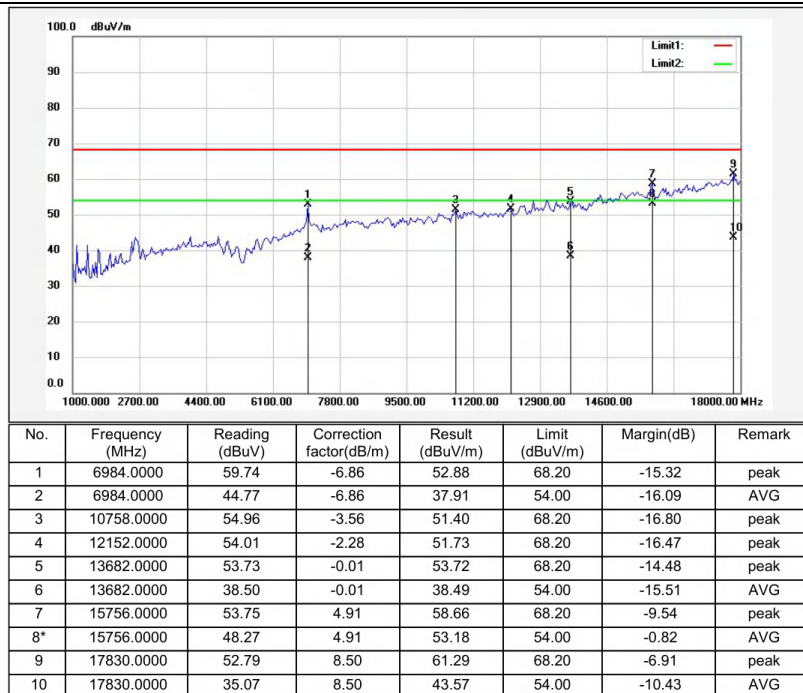
Margin = Result – Limit.

Test Mode:	802.11n(HT20) U-NII-1 High
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Horizontal



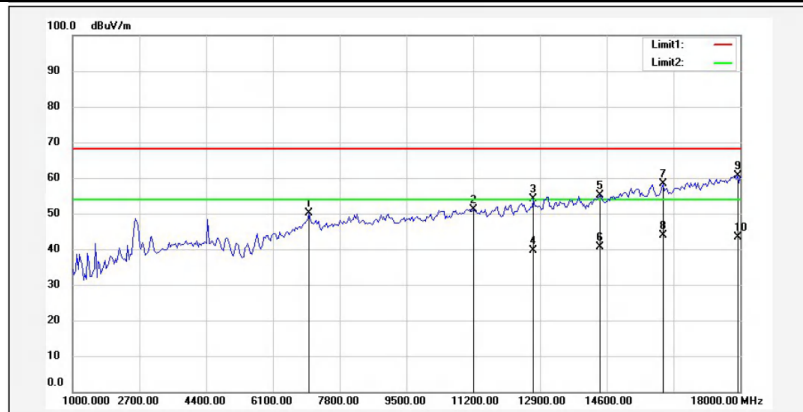
Vertical



Correction Factor = antenna factor + cable loss – amplifier gain;
 Reading = Reading Amplitude in the instrument;
 Result = Correction Factor + Reading;
 Margin = Result – Limit.

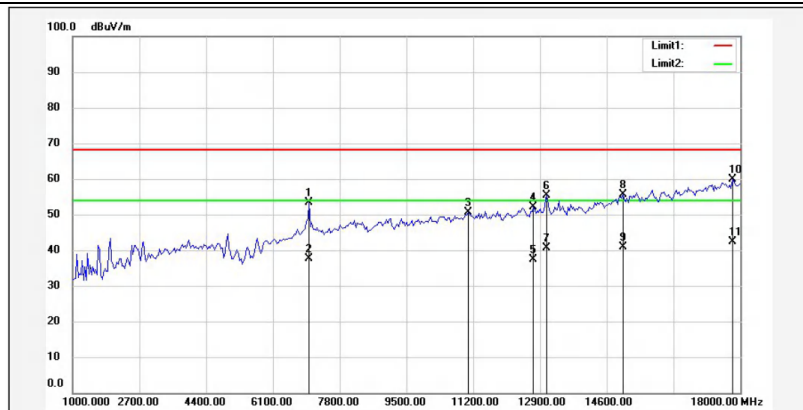
Test Mode:	802.11n(HT20) U-NII-2A Low
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Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	7018.0000	56.98	-6.80	50.18	68.20	-18.02	peak
2	11200.0000	54.30	-3.08	51.22	68.20	-16.98	peak
3	12730.0000	55.44	-1.23	54.21	68.20	-13.99	peak
4	12730.0000	40.87	-1.23	39.64	54.00	-14.36	AVG
5	14430.0000	53.62	1.46	55.08	68.20	-13.12	peak
6	14430.0000	39.05	1.46	40.51	54.00	-13.49	AVG
7	16028.0000	52.76	5.62	58.38	68.20	-9.82	peak
8	16028.0000	38.33	5.62	43.95	54.00	-10.05	AVG
9*	17932.0000	51.93	8.69	60.62	68.20	-7.58	peak
10	17932.0000	34.59	8.69	43.28	54.00	-10.72	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	7018.0000	60.28	-6.80	53.48	68.20	-14.72	peak
2	7018.0000	44.51	-6.80	37.71	54.00	-16.29	AVG
3	11064.0000	53.87	-3.18	50.69	68.20	-17.51	peak
4	12730.0000	53.27	-1.23	52.04	68.20	-16.16	peak
5	12730.0000	38.49	-1.23	37.26	54.00	-16.74	AVG
6	13070.0000	56.18	-0.75	55.43	68.20	-12.77	peak
7	13070.0000	41.44	-0.75	40.69	54.00	-13.31	AVG
8	15008.0000	52.66	2.96	55.62	68.20	-12.58	peak
9	15008.0000	37.90	2.96	40.86	54.00	-13.14	AVG
10*	17796.0000	51.53	8.44	59.97	68.20	-8.23	peak
11	17796.0000	33.88	8.44	42.32	54.00	-11.68	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

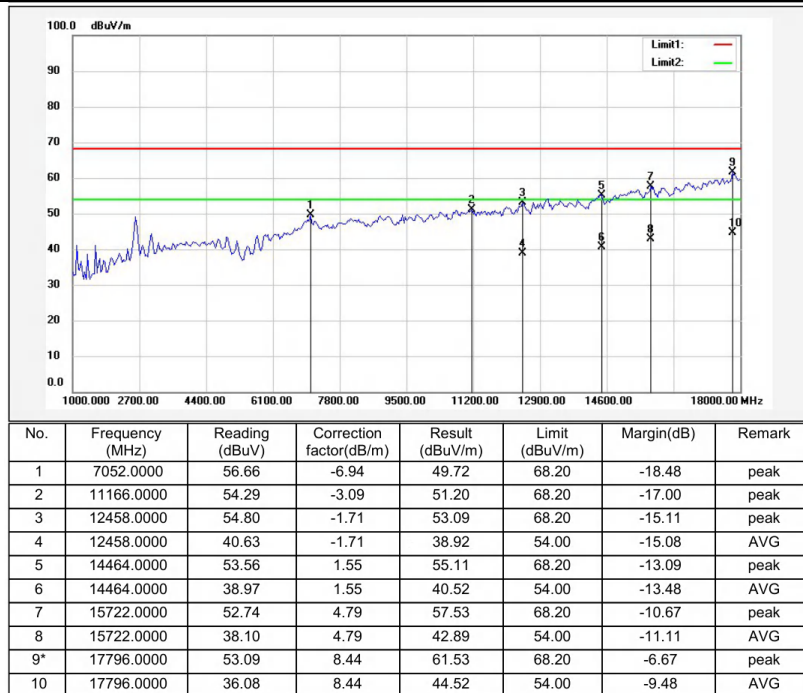
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

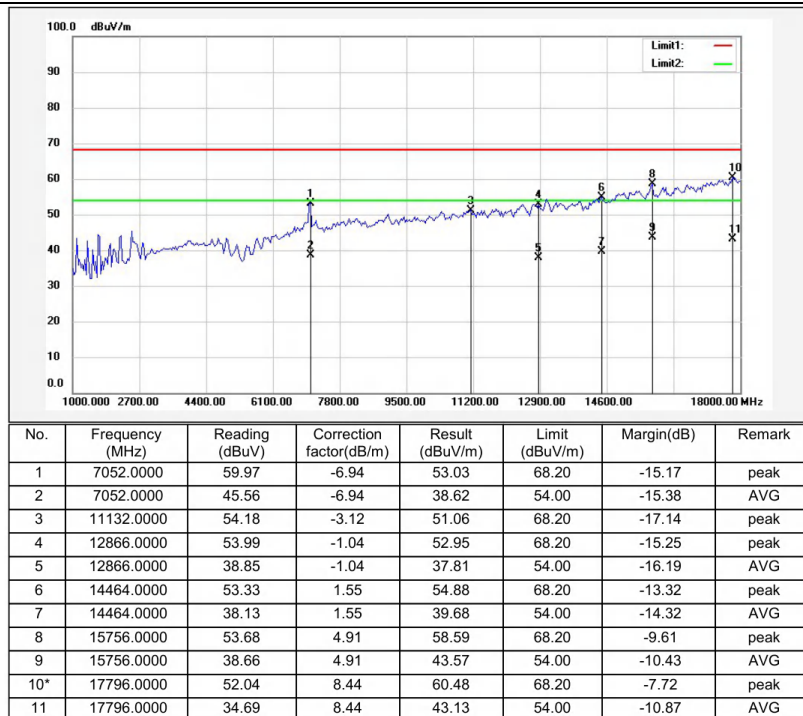
Margin = Result – Limit.

Test Mode:	802.11n(HT20) U-NII-2A Middle
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Horizontal



Vertical



Correction Factor = antenna factor + cable loss – amplifier gain;

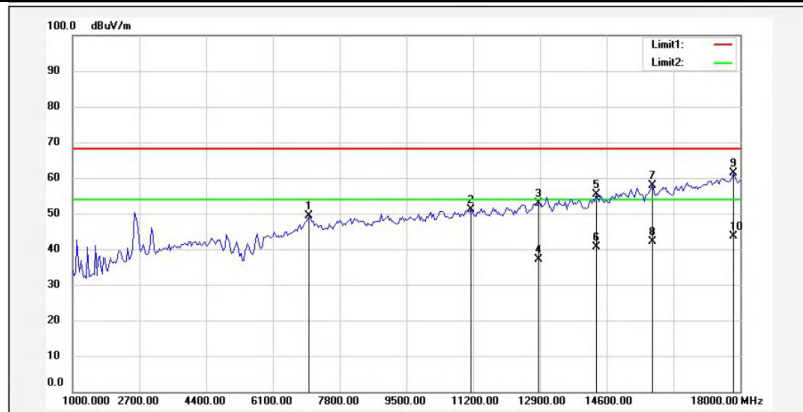
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit.

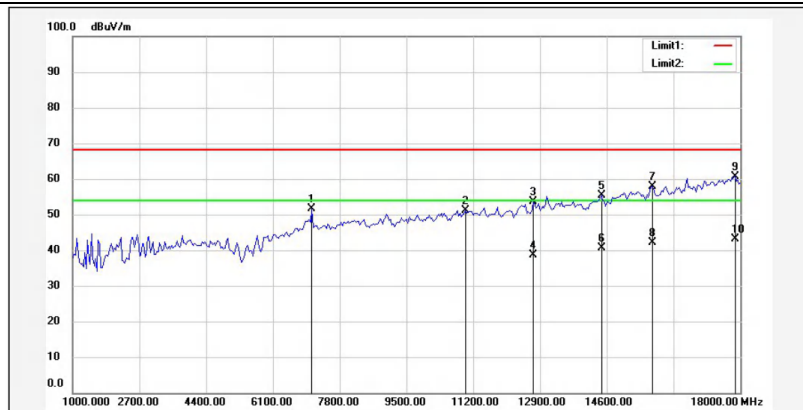
Test Mode:	802.11n(HT20) U-NII-2A High
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Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	7018.0000	56.25	-6.80	49.45	68.20	-18.75	peak
2	11132.0000	54.17	-3.12	51.05	68.20	-17.15	peak
3	12866.0000	53.93	-1.04	52.89	68.20	-15.31	peak
4	12866.0000	38.19	-1.04	37.15	54.00	-16.85	AVG
5	14328.0000	54.10	1.20	55.30	68.20	-12.90	peak
6	14328.0000	39.34	1.20	40.54	54.00	-13.46	AVG
7	15756.0000	53.06	4.91	57.97	68.20	-10.23	peak
8	15756.0000	37.28	4.91	42.19	54.00	-11.81	AVG
9*	17830.0000	52.96	8.50	61.46	68.20	-6.74	peak
10	17830.0000	35.08	8.50	43.58	54.00	-10.42	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	7086.0000	58.65	-7.06	51.59	68.20	-16.61	peak
2	10996.0000	54.43	-3.27	51.16	68.20	-17.04	peak
3	12730.0000	54.77	-1.23	53.54	68.20	-14.66	peak
4	12730.0000	39.75	-1.23	38.52	54.00	-15.48	AVG
5	14464.0000	53.81	1.55	55.36	68.20	-12.84	peak
6	14464.0000	39.16	1.55	40.71	54.00	-13.29	AVG
7	15756.0000	53.04	4.91	57.95	68.20	-10.25	peak
8	15756.0000	37.25	4.91	42.16	54.00	-11.84	AVG
9*	17864.0000	51.96	8.58	60.54	68.20	-7.66	peak
10	17864.0000	34.54	8.58	43.12	54.00	-10.88	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

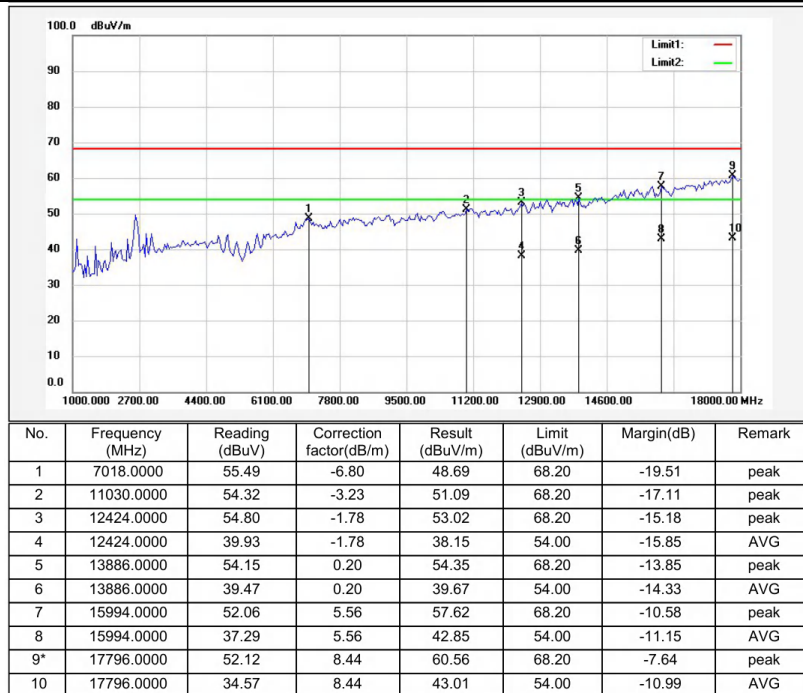
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

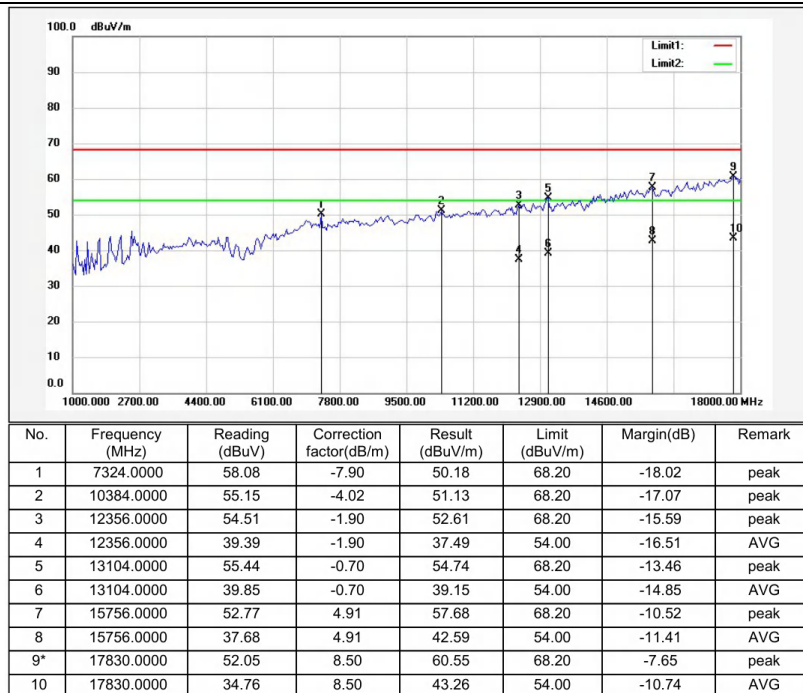
Margin = Result – Limit.

Test Mode:	802.11n(HT20) U-NII-2C Low
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Horizontal



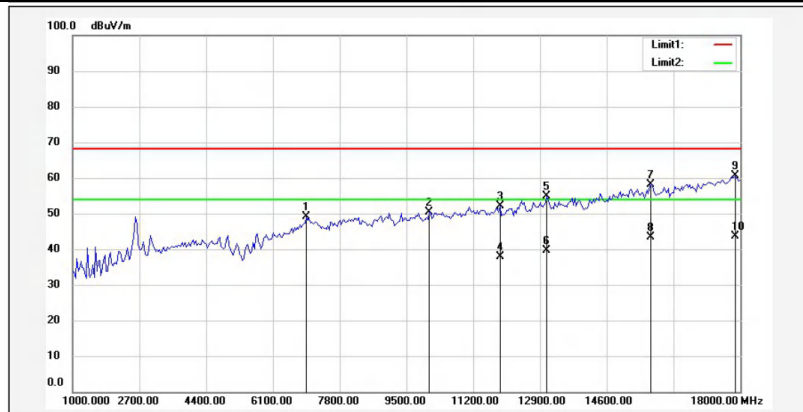
Vertical



Correction Factor = antenna factor + cable loss – amplifier gain;
 Reading = Reading Amplitude in the instrument;
 Result = Correction Factor + Reading;
 Margin = Result – Limit.

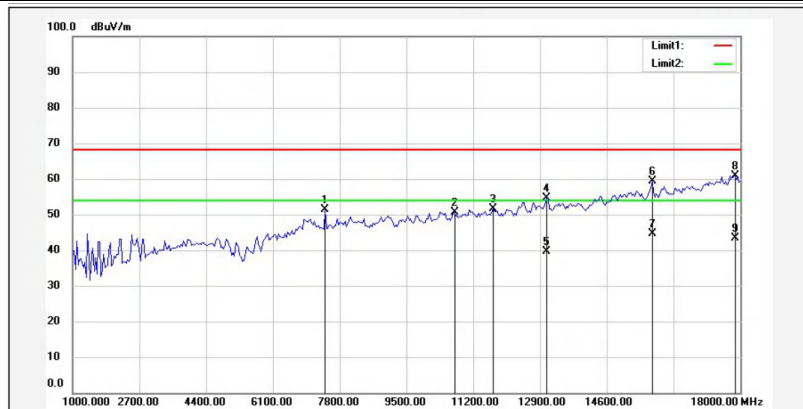
Test Mode:	802.11n(HT20) U-NII-2C Middle
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Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	6950.0000	56.35	-7.15	49.20	68.20	-19.00	peak
2	10078.0000	54.91	-4.47	50.44	68.20	-17.76	peak
3	11880.0000	54.99	-2.76	52.23	68.20	-15.97	peak
4	11880.0000	40.69	-2.76	37.93	54.00	-16.07	AVG
5	13070.0000	55.60	-0.75	54.85	68.20	-13.35	peak
6	13070.0000	40.50	-0.75	39.75	54.00	-14.25	AVG
7	15722.0000	53.46	4.79	58.25	68.20	-9.95	peak
8	15722.0000	38.49	4.79	43.28	54.00	-10.72	AVG
9*	17864.0000	51.99	8.58	60.57	68.20	-7.63	peak
10	17864.0000	34.95	8.58	43.53	54.00	-10.47	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	7426.0000	59.75	-8.40	51.35	68.20	-16.85	peak
2	10724.0000	54.21	-3.60	50.61	68.20	-17.59	peak
3	11710.0000	54.55	-2.89	51.66	68.20	-16.54	peak
4	13070.0000	55.37	-0.75	54.62	68.20	-13.58	peak
5	13070.0000	40.36	-0.75	39.61	54.00	-14.39	AVG
6	15756.0000	54.38	4.91	59.29	68.20	-8.91	peak
7	15756.0000	39.81	4.91	44.72	54.00	-9.28	AVG
8*	17864.0000	52.40	8.58	60.98	68.20	-7.22	peak
9	17864.0000	34.87	8.58	43.45	54.00	-10.55	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

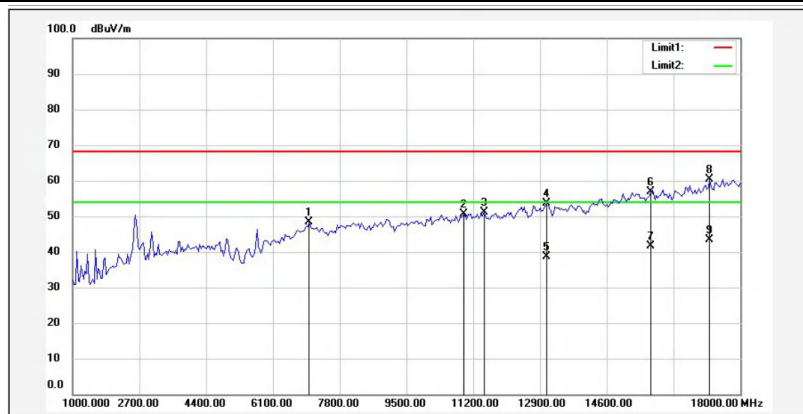
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit.

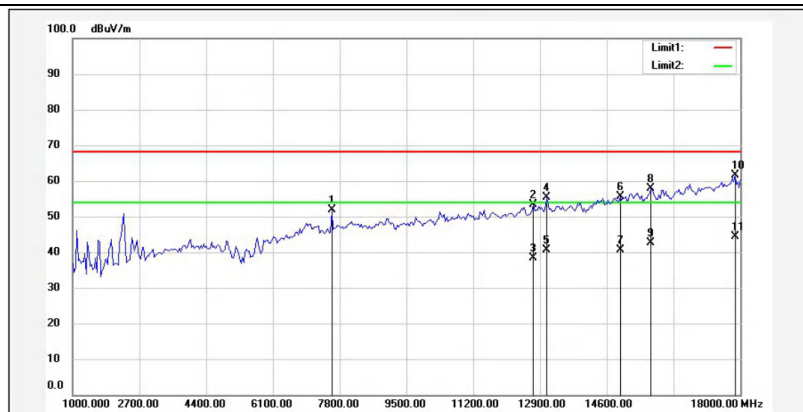
Test Mode:	802.11n(HT20) U-NII-2C High
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Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	7018.0000	55.10	-6.80	48.30	68.20	-19.90	peak
2	10962.0000	54.06	-3.32	50.74	68.20	-17.46	peak
3	11472.0000	54.28	-3.06	51.22	68.20	-16.98	peak
4	13070.0000	54.44	-0.75	53.69	68.20	-14.51	peak
5	13070.0000	39.31	-0.75	38.56	54.00	-15.44	AVG
6	15722.0000	52.01	4.79	56.80	68.20	-11.40	peak
7	15722.0000	36.83	4.79	41.62	54.00	-12.38	AVG
8*	17218.0000	52.85	7.44	60.29	68.20	-7.91	peak
9	17218.0000	36.01	7.44	43.45	54.00	-10.55	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Remark
1	7596.0000	60.03	-8.22	51.81	68.20	-16.39	peak
2	12730.0000	54.64	-1.23	53.41	68.20	-14.79	peak
3	12730.0000	39.62	-1.23	38.39	54.00	-15.61	AVG
4	13070.0000	56.25	-0.75	55.50	68.20	-12.70	peak
5	13070.0000	41.50	-0.75	40.75	54.00	-13.25	AVG
6	14940.0000	52.74	2.82	55.56	68.20	-12.64	peak
7	14940.0000	37.79	2.82	40.61	54.00	-13.39	AVG
8	15722.0000	53.07	4.79	57.86	68.20	-10.34	peak
9	15722.0000	37.85	4.79	42.64	54.00	-11.36	AVG
10*	17864.0000	53.12	8.58	61.70	68.20	-6.50	peak
11	17864.0000	35.80	8.58	44.38	54.00	-9.62	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

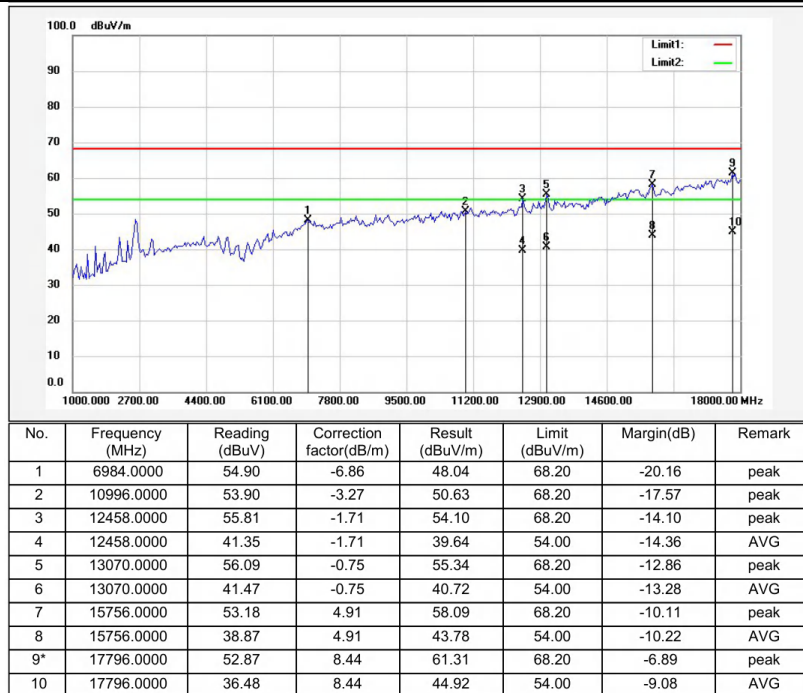
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

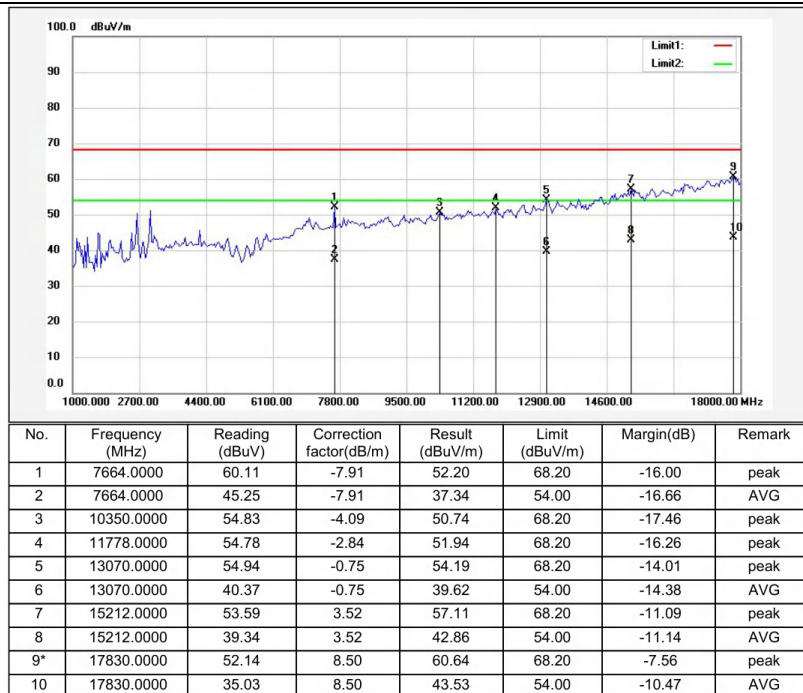
Margin = Result – Limit.

Test Mode:	802.11n(HT20) U-NII-3 Low
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Horizontal



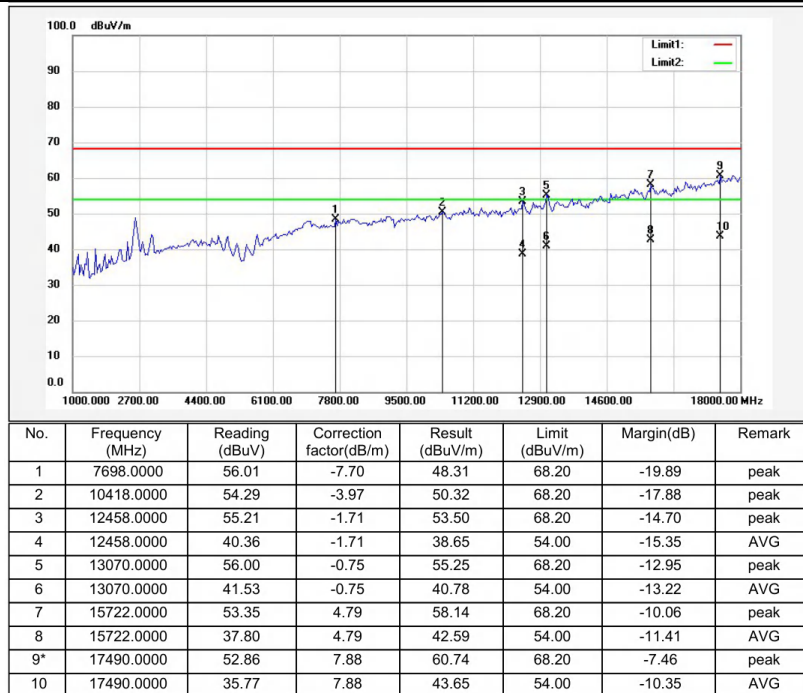
Vertical



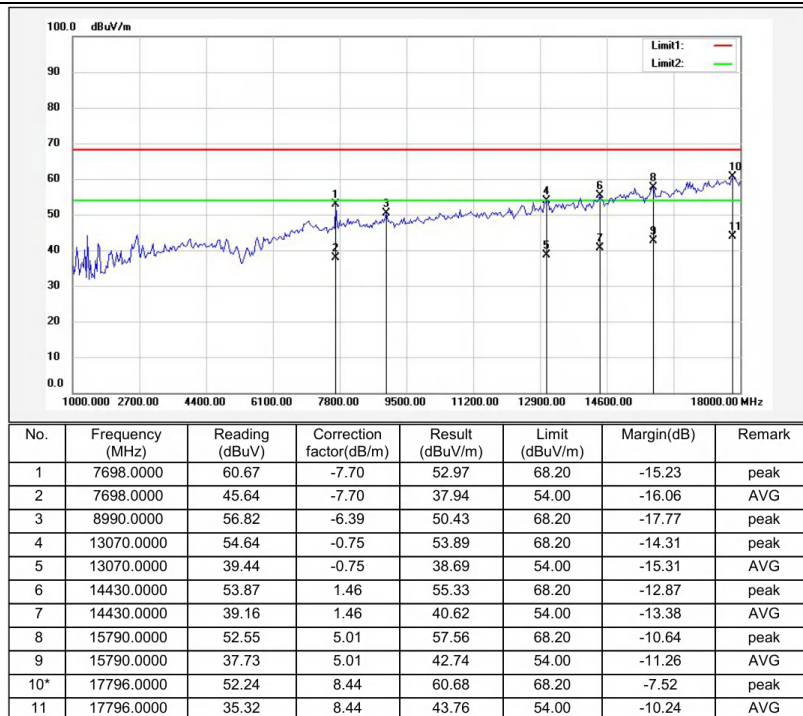
Correction Factor = antenna factor + cable loss – amplifier gain;
 Reading = Reading Amplitude in the instrument;
 Result = Correction Factor + Reading;
 Margin = Result – Limit.

Test Mode:	802.11n(HT20) U-NII-3 Middle
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Horizontal



Vertical



Correction Factor = antenna factor + cable loss – amplifier gain;

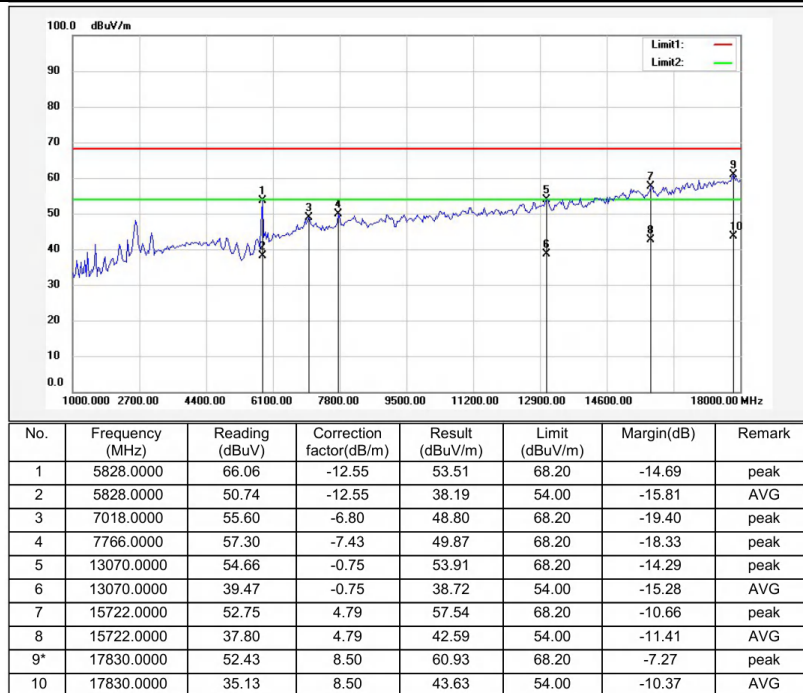
Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

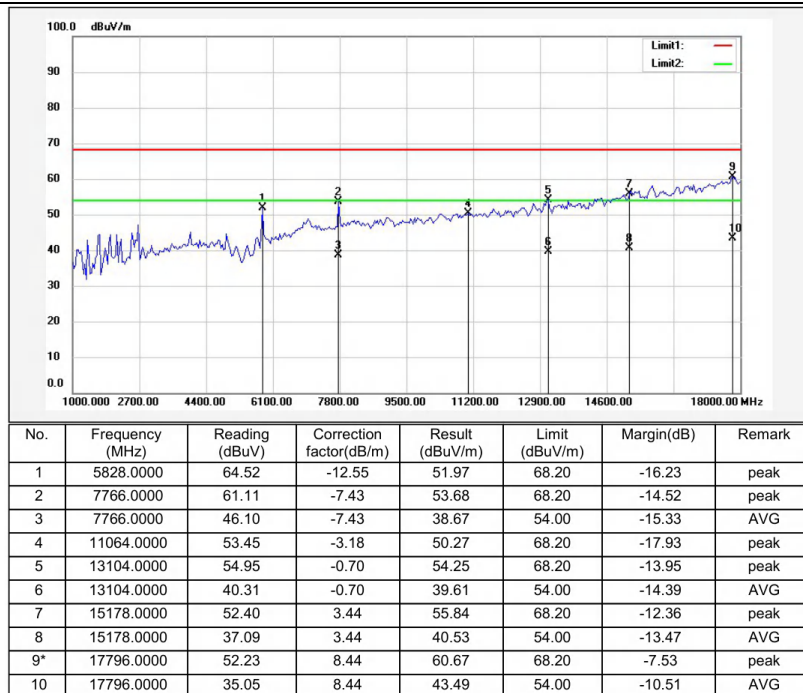
Margin = Result – Limit.

Test Mode:	802.11n(HT20) U-NII-3 High
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Horizontal



Vertical



Correction Factor = antenna factor + cable loss – amplifier gain;
Reading = Reading Amplitude in the instrument;
Result = Correction Factor + Reading;
Margin = Result – Limit.

3.3. Maximum Conducted Output Power Measurement

Limit

Type	Test Item	Frequency [MHz]	Limit
FCC	Conducted Output Power	5150-5250	$\leq 1\text{W (30dBm)}$
		5250-5350 5470-5725	$\leq 250\text{mW(23.98dBm)}$ or $11\text{dBm}+10\log B$, where B is the 26 dB emission bandwidth in MHz, where is lesser.
		5725-5850	$\leq 1\text{W (30dBm)}$

Test Procedure

The EUT was directly connected to the Power Sensor & PC.

Some regulatory agencies permit the maximum conducted (average) output power to be measured as an alternative to the maximum peak conducted output power for determining compliance to the limit. When this option is exercised, the measured power is to be referenced to the OBW rather than to the DTS bandwidth (see 11.2 for definitions and 6.9.2 for measurement guidance).

When using a spectrum analyzer or EMI receiver to perform these measurements, it shall be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span / RBW, to set a bin-to-bin spacing of $\leq \text{RBW} / 2$ so that narrowband signals are not lost between frequency bins. If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see 11.6).

The intent is to test at 100% duty cycle; however, a small reduction in duty cycle (to no lower than 98%) is permitted, if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test laboratory to permit such continuous operation.

If continuous transmission (or at least 98% duty cycle) cannot be achieved because of hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level, with the transmit duration as long as possible, and the duty cycle as high as possible during which sweep triggering/signal gating techniques may be used to perform the measurement over the transmission duration.

Measurement using a power meter (PM) :

1. Method AVGPM :

Method AVGPM is a measurement using an RF average power meter, as follows:

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:

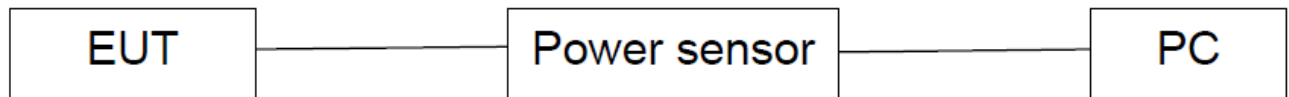
- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in 11.6.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.

2. Method AVGPM-G :

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Test Configuration



EUT OPERATION 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.

Test Results

Pass

Please refer to Appendix A.

3.4. Conducted Power Spectral Density Measurement

Limits

Type	Frequency [MHz]	Limit
FCC	5150-5250	$\leq 17\text{dBm/MHz}$
	5250-5350	$\leq 11\text{dBm/MHz}$
	5470-5725	
	5725-5850	$\leq 30\text{dBm/500KHz}$

Test Procedure

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz.

Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used.

The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth ($< 1\text{ MHz}$, or $< 500\text{ kHz}$) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set $\text{RBW} \geq 1/T$, where T is defined in section II.B.I.a).

b) Set $\text{VBW} \geq 3\text{ RBW}$.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW ($< 500\text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/\text{RBW})$ to the measured result, whereas RBW ($< 1\text{ MHz}$) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

TEST SETUP



EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.5 Unless otherwise a special operating condition is specified in the follows during the testing.

Test Results

Pass

Please refer to Appendix A.

3.5. 6dB BANDWIDTH Measurement

Limits

	Frequency Range (MHz)	Limit
FCC	5725-5850	>500KHz

Test Procedure

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



EUT OPERATION 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.

Test Results

Pass

Please refer to Appendix A.

3.6. 26dB BANDWIDTH Measurement

Limits

	Frequency Range (MHz)	Limit
FCC	5150-5250	/
	5250-5350	/
	5470-5725	/

Test Procedure

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW $\geq$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

TEST SETUP



EUT OPERATION 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.

Test Results

Pass

Please refer to Appendix A.

3.7. Frequency Stability Measurement

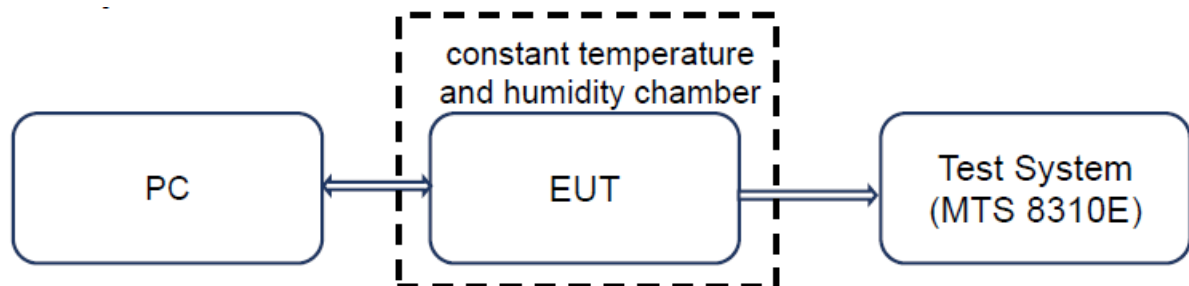
Limits

	Frequency Range (MHz)	Limit
FCC	5150-5250	25ppm
	5250-5350	25ppm
	5470-5725	25ppm
	5725-5850	25ppm

Test Procedure

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

TEST SETUP



EUT OPERATION 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.

Test Results

Pass

Please refer to Appendix A.

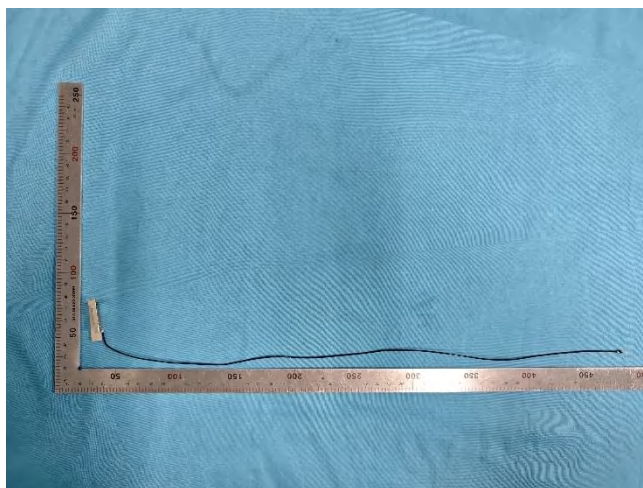
3.8. ANTENNA REQUIREMENT

STANDARD REQUIREMENT

According to the manufacturer declared, the EUT has PIFA, the directional gain of antenna is 4.54dBi for U-NII-1, 4.57dBi for U-NII-2A, 4.85dBi for U-NII-2C, 5.37dBi for U-NII-3, and the antenna connector is designed with a reverse polarity socket and does not consider replacement. Therefore, the EUT is considered sufficient to comply with the provision.

EUT ANTENNA

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



4. TEST PHOTOS

Please refer to Appendix D Test Setup.

5. EUT PHOTOS

External Photos Please refer to Appendix B and Internal Photos Please refer to Appendix C.

*******THE END*******