

TEST REPORT

Applicant	YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
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Manufacturer or Supplier	YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
Address	309, 3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, P.R. China
Product Name	Module Device
Brand Name	YEALINK
Model	YL1023
Additional Model & Model Difference	N/A
Date of tests	Jul. 18, 2018 ~ Aug. 13, 2018

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu Project Engineer/ EMC Department	Approved by Glyn He Supervisor / EMC Department
	 Date: Aug. 22, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF180718N068-1	Original release.	Aug. 22, 2018

1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 UNDER NEW RULE)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emissions	N/A	Powered by DC.
15.407(b) (2/3/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit.
15.407(a)(2)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(2)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	2.90dB
	30MHz ~ 1GMHz	3.83dB
	1GHz ~ 18GHz	4.93dB
	18GHz ~ 40GHz	4.80dB

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

PRODUCT NAME	Module Device
MODEL NO.	YL1023
FCC ID	T2C-YL1023
POWER SUPPLY	DC 3.3V
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150.0Mbps 802.11ac : up to 433.3Mbps
OPERATING FREQUENCY	5250MHz ~ 5350MHz, 5470MHz ~ 5725MHz
NUMBER OF CHANNEL	5250MHz ~ 5350MHz: 4 channels for 802.11a, 802.11n (HT20), 11ac (VHT20) 2 channels for 802.11n(HT40), 11ac (VHT40) 1 channel for 802.11ac (VHT80) 5470MHz ~ 5725MHz: 11 channels for 802.11a, 802.11n (HT20), 11ac (VHT20) 5 channels for 802.11n(HT40), 11ac (VHT40) 2 channel for 802.11ac (VHT80)
CONDUCTED OUTPUT POWER	13.19 dBm for 5250 ~ 5350MHz (Maximum AVG Power) 15.89 dBm for 5470 ~ 5725MHz (Maximum AVG Power)
ANTENNA TYPE	5250MHz ~ 5350MHz: FPCB antenna with 3.42dBi gain 5470MHz ~ 5725MHz: FPCB antenna with 3.42dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

1. The EUT have SISO function, provides 1 completed transmitter and 1 receiver.

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802.11n (HT20), 802.11ac (VHT20)	1TX/1RX
802.11n (HT40), 802.11ac (VHT40)	1TX/1RX
802.11ac (VHT80)	1TX/1RX

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Please refer to the EUT photo document (Reference No.: 180718N068) for detailed product photo.

2.2 DESCRIPTION OF TEST MODES

FOR 5250 ~ 5350MHz

4 channels are provided for 802.11a, 802.11ac (20MHz), 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz

2 channels are provided for 802. 11ac (40MHz), 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290MHz	--	--

FOR 5470 ~ 5725MHz

11 channels are provided for 802.11a, 802.11ac (20MHz), 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz
124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz
140	5700 MHz	--	--

5 channels are provided for 802. 11ac (40MHz), 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	110	5550 MHz
118	5590 MHz	126	5630 MHz
134	5670 MHz		

2 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	122	5610MHz

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	-	√	Powered by DC 3.3V with wifi(5G) link

Where **RE≥1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: "-" means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	13.5
-	802.11ac (80MHz)		58	58	OFDM	BPSK	29.3
-	802.11a	5470-5725	100 to 140	100, 116, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	6.5
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
-	802.11ac(80MHz)		106, 122	106, 122	OFDM	BPSK	29.3

RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5250-5350 5470-5725	52 to 64 100 to 140	52	OFDM	BPSK	6.0

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	13.5
	802.11ac 80MHz		58	58	OFDM	BPSK	29.3
-	802.11a	5470-5725	100 to 140	100, 116, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	6.5
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
	802.11ac 80MHz		106, 122	106, 122	OFDM	BPSK	29.3

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	24deg. C, 55%RH	DC 3.3V	Eric Fang
RE≥1G	24deg. C, 55%RH	DC 3.3V	Eric Fang
PLC	N/A	N/A	N/A
APCM	20deg. C, 55%RH	DC 3.3V	Harry Li



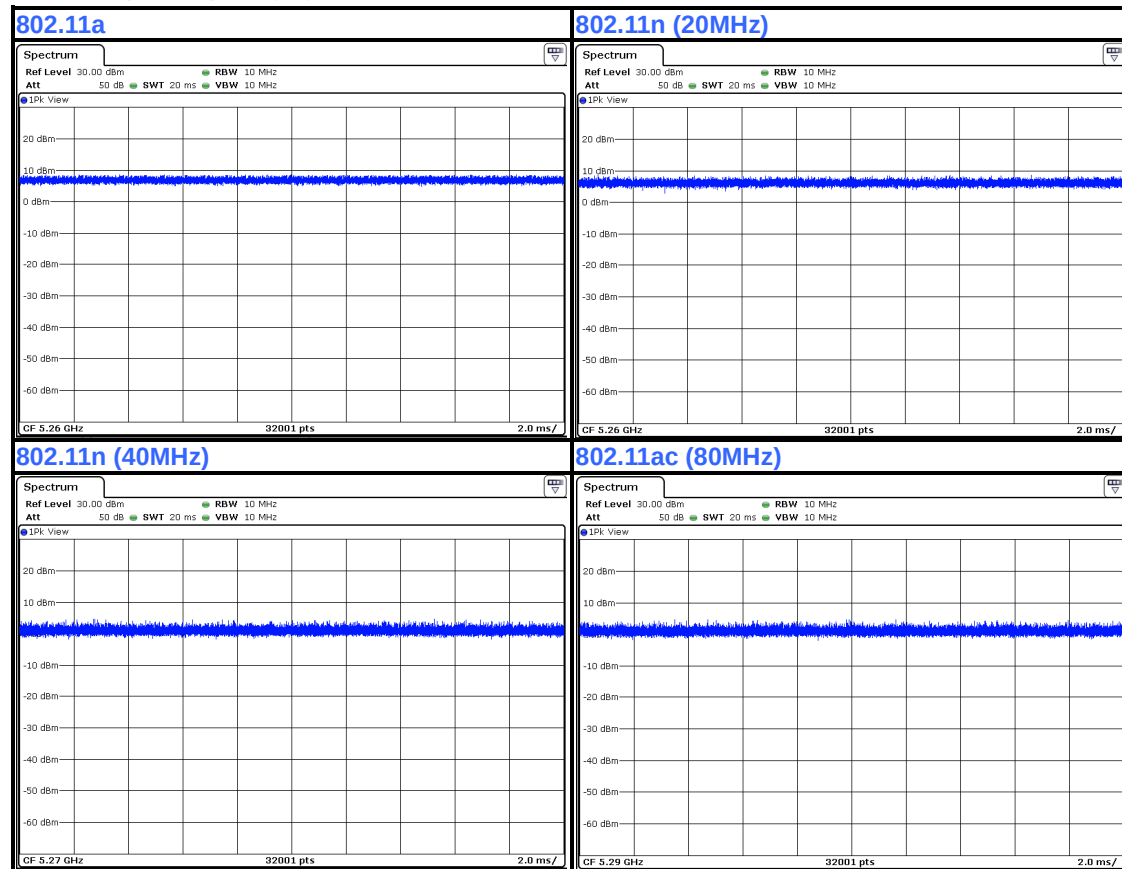
2.3 DUTY CYCLE OF TEST SIGNAL

802.11a: Duty cycle = 100 %

802.11n (20MHz): Duty cycle =100 %

802.11n (40MHz): Duty cycle =100 %

802.11ac (80MHz): Duty cycle =100 %





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2.4 DESCRIPTION OF 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v01r03

KDB 662911 D01 v02r01

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

3. TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v01r03	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE: For transmitters operating in the 5.725-5.85 GHz band:

Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(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.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 21,18	Mar. 20,19
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 21,18	Mar. 20,19
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 28, 18	Jul. 27, 19
Horn Antenna	ETS-Lindgren	3117	00062558	Jul. 02,18	Jul. 01,19
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Sep. 08,17	Sep. 07,18
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Feb. 10,18	Feb. 09,19
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	May 05,18	May 04,19
Amplifier	Burgeon	BPA-530	100220	Apr. 18,18	Apr. 18,19
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 18,18	Apr. 18,19
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 08,17	Nov. 07,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

NOTE:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
2. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
3. The FCC Site Registration No. is 749762.

3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

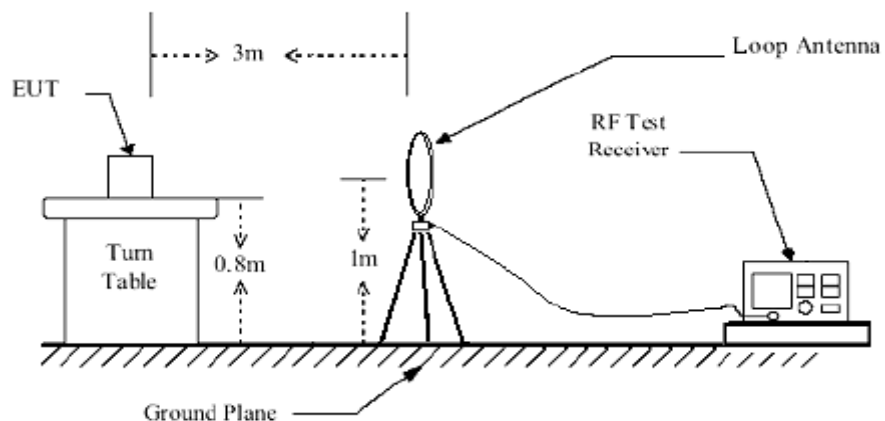
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.5 DEVIATION FROM TEST STANDARD

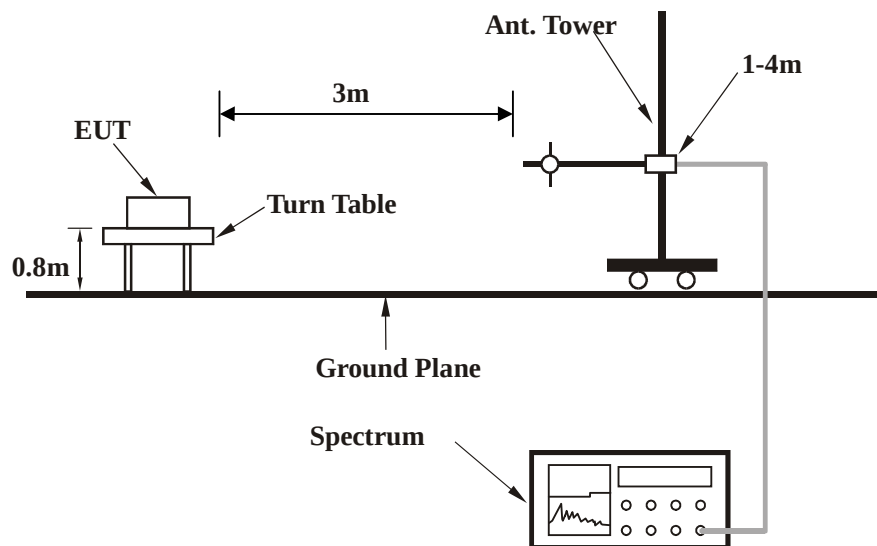
No deviation.

3.1.6 TEST SETUP

Below 30MHz test setup

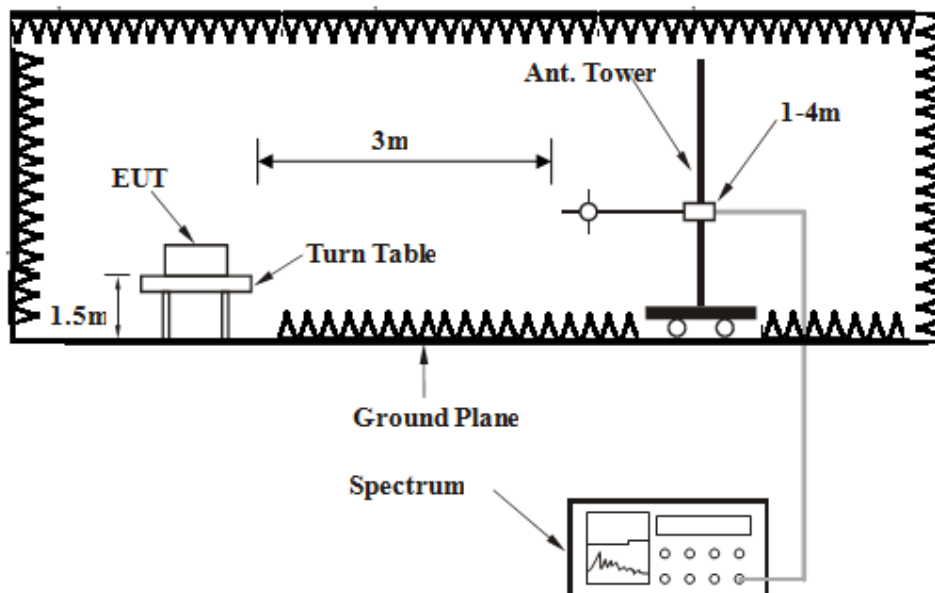


Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

Above 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.7 EUT OPERATING CONDITION

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

3.1.8 FTEST RESULTS

BELOW 1GHz WORST-CASE DATA

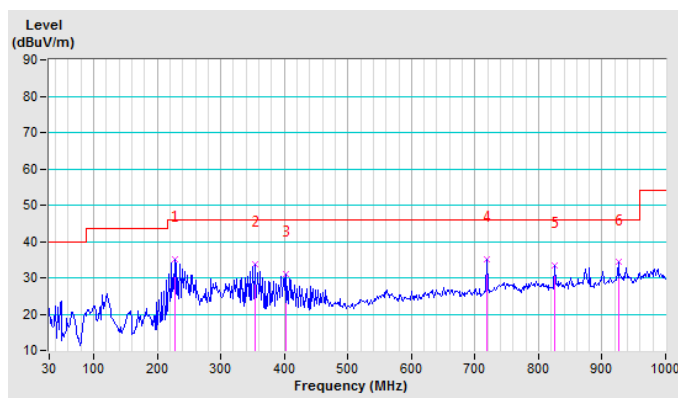
802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	227.42	35.14 QP	46.00	-10.86	1.00 H	152	53.02	-17.88
2	353.33	33.85 QP	46.00	-12.15	1.00 H	303	44.43	-10.58
3	403.08	31.14 QP	46.00	-14.86	1.00 H	179	39.56	-8.42
4	718.64	35.02 QP	46.00	-10.98	1.00 H	204	37.25	-2.23
5	825.90	33.44 QP	46.00	-12.56	1.00 H	82	34.75	-1.31
6	925.38	34.27 QP	46.00	-11.73	1.00 H	77	33.59	0.68

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

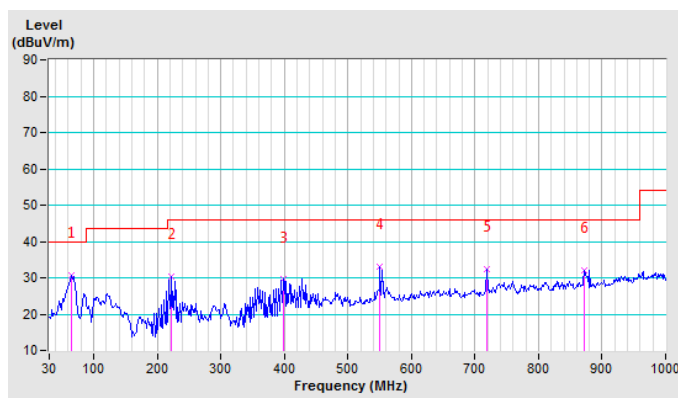


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	64.20	30.68 QP	40.00	-9.32	1.00 V	61	55.12	-24.44
2	222.76	30.39 QP	46.00	-15.61	1.00 V	46	47.93	-17.54
3	398.41	29.56 QP	46.00	-16.44	1.00 V	34	38.29	-8.73
4	550.75	33.15 QP	46.00	-12.85	1.00 V	23	37.52	-4.37
5	718.64	32.42 QP	46.00	-13.58	1.00 V	12	34.65	-2.23
6	872.53	32.02 QP	46.00	-13.98	1.00 V	2	32.29	-0.27

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.



Band 2 (5250-5350MHz):

ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	107.80 PK			1.25 H	140	104.97	2.83
2	*5260.00	98.16 AV			1.25 H	140	95.33	2.83
3	5350.00	51.26 PK	74.00	-22.74	1.48 H	147	48.34	2.92
4	5350.00	39.58 AV	54.00	-14.42	1.48 H	147	36.66	2.92
5	#10520.00	56.35 PK	74.00	-17.65	1.20 H	158	40.08	16.27
6	#10520.00	44.18 AV	54.00	-9.82	1.20 H	158	27.91	16.27
7	15780.00	61.02 PK	74.00	-12.98	1.58 H	169	42.16	18.86
8	15780.00	48.88 AV	54.00	-5.12	1.58 H	169	30.02	18.86
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	96.25 PK			1.20 V	158	93.42	2.83
2	*5260.00	87.59 AV			1.20 V	158	84.76	2.83
3	5350.00	45.26 PK	74.00	-28.74	1.69 V	247	42.34	2.92
4	5350.00	35.88 AV	54.00	-18.12	1.69 V	247	32.96	2.92
5	#10520.00	55.62 PK	74.00	-18.38	1.55 V	120	39.35	16.27
6	#10520.00	42.78 AV	54.00	-11.22	1.55 V	120	26.51	16.27
7	15780.00	59.68 PK	74.00	-14.32	1.87 V	174	40.82	18.86
8	15780.00	46.88 AV	54.00	-7.12	1.87 V	174	28.02	18.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	99.98 PK			1.25 H	147	97.11	2.87
2	*5300.00	89.85 AV			1.25 H	147	86.98	2.87
3	5350.00	51.58 PK	74.00	-22.42	1.69 H	247	48.66	2.92
4	5350.00	40.89 AV	54.00	-13.11	1.69 H	247	37.97	2.92
5	10600.00	54.48 PK	74.00	-19.52	1.69 H	258	38.02	16.46
6	10600.00	43.69 AV	54.00	-10.31	1.69 H	258	27.23	16.46
7	15900.00	59.88 PK	74.00	-14.12	1.60 H	240	41.13	18.75
8	15900.00	48.47 AV	54.00	-5.53	1.60 H	240	29.72	18.75
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	109.88 PK			1.20 V	158	107.01	2.87
2	*5300.00	99.65 AV			1.20 V	158	96.78	2.87
3	5350.00	62.22 PK	74.00	-11.78	1.58 V	147	59.30	2.92
4	5350.00	41.15 AV	54.00	-12.85	1.58 V	147	38.23	2.92
5	10600.00	55.58 PK	74.00	-18.42	1.69 V	258	39.12	16.46
6	10600.00	43.69 AV	54.00	-10.31	1.69 V	258	27.23	16.46
7	15900.00	60.87 PK	74.00	-13.13	1.48 V	157	42.12	18.75
8	15900.00	49.58 AV	54.00	-4.42	1.48 V	157	30.83	18.75

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.85 PK			1.50 H	140	106.96	2.89
2	*5320.00	99.85 AV			1.50 H	140	96.96	2.89
3	5350.00	72.23 PK	74.00	-1.77	1.25 H	147	69.31	2.92
4	5350.00	45.89 AV	54.00	-8.11	1.25 H	147	42.97	2.92
5	10640.00	55.85 PK	74.00	-18.15	1.36 H	258	39.30	16.55
6	10640.00	44.69 AV	54.00	-9.31	1.36 H	258	28.14	16.55
7	15960.00	69.88 PK	74.00	-4.12	1.58 H	120	51.18	18.70
8	15960.00	49.74 AV	54.00	-4.26	1.58 H	120	31.04	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	97.97 PK			1.50 V	147	95.08	2.89
2	*5320.00	90.68 AV			1.50 V	147	87.79	2.89
3	5350.00	60.85 PK	74.00	-13.15	1.55 V	147	57.93	2.92
4	5350.00	37.00 AV	54.00	-17.00	1.55 V	147	34.08	2.92
5	10640.00	54.26 PK	74.00	-19.74	1.02 V	169	37.71	16.55
6	10640.00	43.69 AV	54.00	-10.31	1.02 V	169	27.14	16.55
7	15960.00	68.74 PK	74.00	-5.26	1.02 V	130	50.04	18.70
8	15960.00	48.79 AV	54.00	-5.21	1.02 V	130	30.09	18.70

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11n (20MHz)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	105.87 PK			1.25 H	148	103.04	2.83
2	*5260.00	96.88 AV			1.25 H	148	94.05	2.83
3	5350.00	45.58 PK	74.00	-28.42	1.36 H	247	42.66	2.92
4	5350.00	32.58 AV	54.00	-21.42	1.36 H	247	29.66	2.92
5	#10520.00	55.26 PK	74.00	-18.74	1.36 H	258	38.99	16.27
6	#10520.00	44.29 AV	54.00	-9.71	1.36 H	258	28.02	16.27
7	15780.00	65.87 PK	74.00	-8.13	1.36 H	247	47.01	18.86
8	15780.00	45.80 AV	54.00	-8.20	1.36 H	247	26.94	18.86
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	95.87 PK			1.55 V	120	93.04	2.83
2	*5260.00	86.85 AV			1.55 V	120	84.02	2.83
3	5350.00	45.69 PK	74.00	-28.31	1.30 V	218	42.77	2.92
4	5350.00	36.25 AV	54.00	-17.75	1.30 V	218	33.33	2.92
5	#10520.00	54.23 PK	74.00	-19.77	1.36 V	247	37.96	16.27
6	#10520.00	42.16 AV	54.00	-11.84	1.36 V	247	25.89	16.27
7	15780.00	59.68 PK	74.00	-14.32	1.20 V	147	40.82	18.86
8	15780.00	46.58 AV	54.00	-7.42	1.20 V	147	27.72	18.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	107.28 PK			1.20 H	158	104.41	2.87
2	*5300.00	98.26 AV			1.20 H	158	95.39	2.87
3	5350.00	61.58 PK	74.00	-12.42	1.69 H	258	58.66	2.92
4	5350.00	41.03 AV	54.00	-12.97	1.69 H	258	38.11	2.92
5	10600.00	53.69 PK	74.00	-20.31	1.36 H	258	37.23	16.46
6	10600.00	39.58 AV	54.00	-14.42	1.36 H	258	23.12	16.46
7	15900.00	65.26 PK	74.00	-8.74	1.36 H	247	46.51	18.75
8	15900.00	47.58 AV	54.00	-6.42	1.36 H	247	28.83	18.75
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	98.88 PK			1.25 V	177	96.01	2.87
2	*5300.00	89.09 AV			1.25 V	177	86.22	2.87
3	5350.00	53.69 PK	74.00	-20.31	1.20 V	158	50.77	2.92
4	5350.00	42.15 AV	54.00	-11.85	1.20 V	158	39.23	2.92
5	10600.00	54.25 PK	74.00	-19.75	1.00 V	269	37.79	16.46
6	10600.00	43.26 AV	54.00	-10.74	1.00 V	269	26.80	16.46
7	15900.00	64.26 PK	74.00	-9.74	1.02 V	147	45.51	18.75
8	15900.00	48.49 AV	54.00	-5.51	1.02 V	147	29.74	18.75

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	108.97 PK			1.50 H	148	106.08	2.89
2	*5320.00	99.56 AV			1.50 H	148	96.67	2.89
3	5350.00	71.18 PK	74.00	-2.82	1.60 H	250	68.26	2.92
4	5350.00	45.21 AV	54.00	-8.79	1.60 H	250	42.29	2.92
5	10640.00	55.58 PK	74.00	-18.42	1.69 H	287	39.03	16.55
6	10640.00	44.78 AV	54.00	-9.22	1.69 H	287	28.23	16.55
7	15960.00	67.25 PK	74.00	-6.75	1.69 H	247	48.55	18.70
8	15960.00	49.58 AV	54.00	-4.42	1.69 H	247	30.88	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	98.87 PK			1.55 V	120	95.98	2.89
2	*5320.00	89.98 AV			1.55 V	120	87.09	2.89
3	5350.00	60.58 PK	74.00	-13.42	1.25 V	120	57.66	2.92
4	5350.00	43.26 AV	54.00	-10.74	1.25 V	120	40.34	2.92
5	10640.00	53.26 PK	74.00	-20.74	1.02 V	147	36.71	16.55
6	10640.00	42.15 AV	54.00	-11.85	1.02 V	147	25.60	16.55
7	15960.00	64.15 PK	74.00	-9.85	1.58 V	147	45.45	18.70
8	15960.00	46.69 AV	54.00	-7.31	1.58 V	147	27.99	18.70

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11n (40MHz)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.69 PK	74.00	-18.31	1.36 H	247	52.98	2.71
2	5150.00	41.02 AV	54.00	-12.98	1.36 H	247	38.31	2.71
3	*5270.00	105.84 PK			1.20 H	158	103.01	2.83
4	*5270.00	95.26 AV			1.20 H	158	92.43	2.83
5	5350.00	62.98 PK	74.00	-11.02	1.20 H	147	60.06	2.92
6	5350.00	46.23 AV	54.00	-7.77	1.20 H	147	43.31	2.92
7	#10540.00	54.26 PK	74.00	-19.74	1.02 H	140	37.94	16.32
8	#10540.00	43.26 AV	54.00	-10.74	1.02 H	140	26.94	16.32
9	15810.00	66.36 PK	74.00	-7.64	1.00 H	214	47.53	18.83
10	15810.00	48.74 AV	54.00	-5.26	1.00 H	214	29.91	18.83
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.48 PK	74.00	-18.52	1.36 V	247	52.77	2.71
2	5150.00	42.03 AV	54.00	-11.97	1.36 V	247	39.32	2.71
3	*5270.00	94.95 PK			1.30 V	258	92.12	2.83
4	*5270.00	84.69 AV			1.30 V	258	81.86	2.83
5	5350.00	54.58 PK	74.00	-19.42	1.36 V	247	51.66	2.92
6	5350.00	36.69 AV	54.00	-17.31	1.36 V	247	33.77	2.92
7	#10540.00	53.26 PK	74.00	-20.74	1.02 V	144	36.94	16.32
8	#10540.00	42.15 AV	54.00	-11.85	1.02 V	144	25.83	16.32
9	15810.00	65.36 PK	74.00	-8.64	1.25 V	147	46.53	18.83
10	15810.00	46.58 AV	54.00	-7.42	1.25 V	147	27.75	18.83

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
- 6 " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.75 PK			1.25 H	147	100.88	2.87
2	*5310.00	93.99 AV			1.25 H	147	91.12	2.87
3	5350.00	71.23 PK	74.00	-2.77	1.58 H	146	68.31	2.92
4	5350.00	51.98 AV	54.00	-2.02	1.58 H	146	49.06	2.92
5	10620.00	54.26 PK	74.00	-19.74	1.25 H	147	37.75	16.51
6	10620.00	43.69 AV	54.00	-10.31	1.25 H	147	27.18	16.51
7	15930.00	66.36 PK	74.00	-7.64	1.24 H	147	47.63	18.73
8	15930.00	47.15 AV	54.00	-6.85	1.24 H	147	28.42	18.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	93.68 PK			1.50 V	147	90.81	2.87
2	*5310.00	83.89 AV			1.50 V	147	81.02	2.87
3	5350.00	59.28 PK	74.00	-14.72	1.58 V	140	56.36	2.92
4	5350.00	43.69 AV	54.00	-10.31	1.58 V	140	40.77	2.92
5	10620.00	54.26 PK	74.00	-19.74	1.36 V	247	37.75	16.51
6	10620.00	44.16 AV	54.00	-9.84	1.36 V	247	27.65	16.51
7	15930.00	62.25 PK	74.00	-11.75	1.69 V	248	43.52	18.73
8	15930.00	46.88 AV	54.00	-7.12	1.69 V	248	28.15	18.73

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11ac 80MHz

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	103.69 PK			1.25 H	147	100.84	2.85
2	*5290.00	88.95 AV			1.25 H	147	86.10	2.85
3	5350.00	68.21 PK	74.00	-5.79	1.20 H	158	65.29	2.92
4	5350.00	52.49 AV	54.00	-1.51	1.20 H	158	49.57	2.92
5	#10580.00	55.69 PK	74.00	-18.31	1.25 H	169	39.27	16.42
6	#10580.00	43.69 AV	54.00	-10.31	1.25 H	169	27.27	16.42
7	15870.00	66.69 PK	74.00	-7.31	1.58 H	46	47.91	18.78
8	15870.00	47.48 AV	54.00	-6.52	1.58 H	46	28.70	18.78
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	92.58 PK			1.58 V	120	89.73	2.85
2	*5290.00	78.98 AV			1.58 V	120	76.13	2.85
3	5350.00	58.12 PK	74.00	-15.88	1.50 V	148	55.20	2.92
4	5350.00	42.12 AV	54.00	-11.88	1.50 V	148	39.20	2.92
5	#10580.00	53.26 PK	74.00	-20.74	1.69 V	247	36.84	16.42
6	#10580.00	44.80 AV	54.00	-9.20	1.69 V	247	28.38	16.42
7	15870.00	63.20 PK	74.00	-10.80	1.36 V	247	44.42	18.78
8	15870.00	48.49 AV	54.00	-5.51	1.36 V	247	29.71	18.78

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band 3 (5470-5725MHz):

ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	72.94 PK	74.00	-1.06	1.58 H	147	69.90	3.04
2	#5470.00	52.24 AV	54.00	-1.76	1.58 H	147	49.20	3.04
3	*5500.00	110.88 PK			1.20 H	158	107.81	3.07
4	*5500.00	101.58 AV			1.20 H	158	98.51	3.07
5	11000.00	56.69 PK	74.00	-17.31	1.48 H	147	39.31	17.38
6	11000.00	45.88 AV	54.00	-8.12	1.48 H	147	28.50	17.38
7	#16500.00	68.99 PK	74.00	-5.01	1.47 H	130	48.48	20.51
8	#16500.00	49.87 AV	54.00	-4.13	1.47 H	130	29.36	20.51
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.58 PK	74.00	-13.42	1.25 V	147	57.54	3.04
2	#5470.00	41.15 AV	54.00	-12.85	1.25 V	147	38.11	3.04
3	*5500.00	102.25 PK			1.20 V	158	99.18	3.07
4	*5500.00	92.87 AV			1.20 V	158	89.80	3.07
5	11000.00	56.97 PK	74.00	-17.03	1.20 V	147	39.59	17.38
6	11000.00	45.78 AV	54.00	-8.22	1.20 V	147	28.40	17.38
7	#16500.00	66.95 PK	74.00	-7.05	1.20 V	158	46.44	20.51
8	#16500.00	48.40 AV	54.00	-5.60	1.20 V	158	27.89	20.51

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	48.57 PK	74.00	-25.43	1.20 H	158	45.53	3.04
2	#5470.00	38.12 AV	54.00	-15.88	1.20 H	158	35.08	3.04
3	*5580.00	110.98 PK			1.20 H	158	107.75	3.23
4	*5580.00	100.50 AV			1.20 H	158	97.27	3.23
5	11160.00	56.69 PK	74.00	-17.31	1.20 H	158	39.07	17.62
6	11160.00	45.48 AV	54.00	-8.52	1.20 H	158	27.86	17.62
7	#16740.00	66.58 PK	74.00	-7.42	1.47 H	102	44.88	21.70
8	#16740.00	48.88 AV	54.00	-5.12	1.47 H	102	27.18	21.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	52.58 PK	74.00	-21.42	1.58 V	147	49.54	3.04
2	#5470.00	43.69 AV	54.00	-10.31	1.58 V	147	40.65	3.04
3	*5580.00	98.98 PK			1.25 V	148	95.75	3.23
4	*5580.00	90.00 AV			1.25 V	148	86.77	3.23
5	11160.00	54.58 PK	74.00	-19.42	1.36 V	298	36.96	17.62
6	11160.00	42.26 AV	54.00	-11.74	1.36 V	298	24.64	17.62
7	#16740.00	63.50 PK	74.00	-10.50	1.00 V	360	41.80	21.70
8	#16740.00	47.12 AV	54.00	-6.88	1.00 V	360	25.42	21.70

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.05 PK			1.25 H	136	104.57	3.48
2	*5700.00	98.69 AV			1.25 H	136	95.21	3.48
3	#5725.00	72.15 PK	74.00	-1.85	1.35 H	247	68.62	3.53
4	#5725.00	52.65 AV	54.00	-1.35	1.35 H	247	49.12	3.53
5	11400.00	56.68 PK	74.00	-17.32	1.47 H	188	38.70	17.98
6	11400.00	45.87 AV	54.00	-8.13	1.47 H	188	27.89	17.98
7	#17100.00	68.98 PK	74.00	-5.02	1.25 H	188	45.44	23.54
8	#17100.00	49.88 AV	54.00	-4.12	1.25 H	188	26.34	23.54
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	99.84 PK			1.50 V	148	96.36	3.48
2	*5700.00	89.57 AV			1.50 V	148	86.09	3.48
3	#5725.00	62.25 PK	74.00	-11.75	1.30 V	269	58.72	3.53
4	#5725.00	45.16 AV	54.00	-8.84	1.30 V	269	41.63	3.53
5	11400.00	54.48 PK	74.00	-19.52	1.00 V	360	36.50	17.98
6	11400.00	45.12 AV	54.00	-8.88	1.00 V	360	27.14	17.98
7	#17100.00	67.48 PK	74.00	-6.52	1.36 V	201	43.94	23.54
8	#17100.00	48.77 AV	54.00	-5.23	1.36 V	201	25.23	23.54

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	71.20 PK	74.00	-2.80	1.25 H	169	68.16	3.04
2	#5470.00	50.36 AV	54.00	-3.64	1.25 H	169	47.32	3.04
3	*5500.00	110.98 PK			1.25 H	169	107.91	3.07
4	*5500.00	101.58 AV			1.25 H	169	98.51	3.07
5	11000.00	56.88 PK	74.00	-17.12	1.30 H	250	39.50	17.38
6	11000.00	46.25 AV	54.00	-7.75	1.30 H	250	28.87	17.38
7	#16500.00	66.35 PK	74.00	-7.65	1.25 H	140	45.84	20.51
8	#16500.00	49.87 AV	54.00	-4.13	1.25 H	140	29.36	20.51
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	54.49 PK	74.00	-19.51	1.36 V	240	51.45	3.04
2	#5470.00	39.97 AV	54.00	-14.03	1.36 V	240	36.93	3.04
3	*5500.00	97.88 PK			1.20 V	158	94.81	3.07
4	*5500.00	89.58 AV			1.20 V	158	86.51	3.07
5	11000.00	54.49 PK	74.00	-19.51	1.36 V	247	37.11	17.38
6	11000.00	42.16 AV	54.00	-11.84	1.36 V	247	24.78	17.38
7	#16500.00	64.49 PK	74.00	-9.51	1.30 V	258	43.98	20.51
8	#16500.00	49.78 AV	54.00	-4.22	1.30 V	258	29.27	20.51

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	53.26 PK	74.00	-20.74	1.48 H	158	50.22	3.04
2	#5470.00	42.88 AV	54.00	-11.12	1.48 H	158	39.84	3.04
3	*5580.00	109.79 PK			1.58 H	146	106.56	3.23
4	*5580.00	99.85 AV			1.58 H	146	96.62	3.23
5	11160.00	56.36 PK	74.00	-17.64	1.98 H	210	38.74	17.62
6	11160.00	45.87 AV	54.00	-8.13	1.98 H	210	28.25	17.62
7	#16740.00	66.87 PK	74.00	-7.13	1.25 H	188	45.17	21.70
8	#16740.00	49.88 AV	54.00	-4.12	1.25 H	188	28.18	21.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	53.69 PK	74.00	-20.31	1.20 V	158	50.65	3.04
2	#5470.00	42.47 AV	54.00	-11.53	1.20 V	158	39.43	3.04
3	*5580.00	98.98 PK			1.20 V	169	95.75	3.23
4	*5580.00	88.58 AV			1.20 V	169	85.35	3.23
5	11160.00	55.87 PK	74.00	-18.13	1.36 V	360	38.25	17.62
6	11160.00	43.78 AV	54.00	-10.22	1.36 V	360	26.16	17.62
7	#16740.00	67.48 PK	74.00	-6.52	1.30 V	201	45.78	21.70
8	#16740.00	48.47 AV	54.00	-5.53	1.30 V	201	26.77	21.70

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	102.87 PK			1.67 H	166	99.39	3.48
2	*5700.00	93.32 AV			1.67 H	166	89.84	3.48
3	#5725.00	69.52 PK	74.00	-4.48	1.64 H	197	65.99	3.53
4	#5725.00	51.08 AV	54.00	-2.92	1.64 H	197	47.55	3.53
5	11400.00	58.17 PK	74.00	-15.83	1.63 H	175	40.19	17.98
6	11400.00	48.72 AV	54.00	-5.28	1.63 H	175	30.74	17.98
7	#17100.00	61.60 PK	74.00	-12.40	1.30 H	210	38.06	23.54
8	#17100.00	50.50 AV	54.00	-3.50	1.30 H	210	26.96	23.54
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	101.03 PK			1.05 V	68	97.55	3.48
2	*5700.00	92.31 AV			1.05 V	68	88.83	3.48
3	#5725.00	66.32 PK	74.00	-7.68	1.06 V	65	62.79	3.53
4	#5725.00	53.30 AV	54.00	-0.70	1.06 V	65	49.77	3.53
5	11400.00	58.17 PK	74.00	-15.83	1.25 V	302	40.19	17.98
6	11400.00	48.75 AV	54.00	-5.25	1.25 V	302	30.77	17.98
7	#17100.00	61.37 PK	74.00	-12.63	1.65 V	201	37.83	23.54
8	#17100.00	50.96 AV	54.00	-3.04	1.65 V	201	27.42	23.54

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	64.71 PK	74.00	-9.29	1.41 H	200	61.67	3.04
2	#5470.00	51.71 AV	54.00	-2.29	1.41 H	200	48.67	3.04
3	*5510.00	100.30 PK			1.40 H	199	97.21	3.09
4	*5510.00	89.81 AV			1.40 H	199	86.72	3.09
5	11020.00	58.98 PK	74.00	-15.02	1.52 H	100	41.58	17.40
6	11020.00	46.19 AV	54.00	-7.81	1.52 H	100	28.79	17.40
7	#16530.00	62.18 PK	74.00	-11.82	1.42 H	85	41.52	20.66
8	#16530.00	49.79 AV	54.00	-4.21	1.42 H	85	29.13	20.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	65.49 PK	74.00	-8.51	1.75 V	208	62.45	3.04
2	#5470.00	52.35 AV	54.00	-1.65	1.75 V	208	49.31	3.04
3	*5510.00	99.17 PK			1.72 V	201	96.08	3.09
4	*5510.00	89.78 AV			1.72 V	201	86.69	3.09
5	11020.00	58.68 PK	74.00	-15.32	1.08 V	302	41.28	17.40
6	11020.00	45.95 AV	54.00	-8.05	1.08 V	302	28.55	17.40
7	#16530.00	62.37 PK	74.00	-11.63	1.17 V	230	41.71	20.66
8	#16530.00	49.70 AV	54.00	-4.30	1.17 V	230	29.04	20.66

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	53.96 PK	74.00	-20.04	1.33 H	124	50.92	3.04
2	#5470.00	41.78 AV	54.00	-12.22	1.33 H	124	38.74	3.04
3	*5550.00	100.80 PK			1.48 H	201	97.63	3.17
4	*5550.00	90.61 AV			1.48 H	201	87.44	3.17
5	11100.00	55.12 PK	74.00	-18.88	1.42 H	290	37.60	17.52
6	11100.00	46.25 AV	54.00	-7.75	1.42 H	290	28.73	17.52
7	#16650.00	63.29 PK	74.00	-10.71	1.24 H	281	42.04	21.25
8	#16650.00	50.24 AV	54.00	-3.76	1.24 H	281	28.99	21.25
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	58.29 PK	74.00	-15.71	1.77 V	232	55.25	3.04
2	#5470.00	46.42 AV	54.00	-7.58	1.77 V	232	43.38	3.04
3	*5550.00	103.67 PK			1.82 V	302	100.50	3.17
4	*5550.00	94.31 AV			1.82 V	302	91.14	3.17
5	11100.00	58.20 PK	74.00	-15.80	1.00 V	235	40.68	17.52
6	11100.00	48.65 AV	54.00	-5.35	1.00 V	235	31.13	17.52
7	#16650.00	60.51 PK	74.00	-13.49	1.32 V	144	39.26	21.25
8	#16650.00	50.16 AV	54.00	-3.84	1.32 V	144	28.91	21.25

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	102.47 PK			1.14 H	87	99.05	3.42
2	*5670.00	92.57 AV			1.14 H	87	89.15	3.42
3	#5725.00	63.80 PK	74.00	-10.20	1.54 H	201	60.27	3.53
4	#5725.00	53.31 AV	54.00	-0.69	1.54 H	201	49.78	3.53
5	11340.00	58.01 PK	74.00	-15.99	1.75 H	230	40.13	17.88
6	11340.00	48.07 AV	54.00	-5.93	1.75 H	230	30.19	17.88
7	#17010.00	64.94 PK	74.00	-9.06	1.84 H	201	41.89	23.05
8	#17010.00	51.80 AV	54.00	-2.20	1.84 H	201	28.75	23.05
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	101.70 PK			1.04 V	210	98.28	3.42
2	*5670.00	91.64 AV			1.04 V	210	88.22	3.42
3	#5725.00	61.82 PK	74.00	-12.18	1.74 V	218	58.29	3.53
4	#5725.00	52.14 AV	54.00	-1.86	1.74 V	218	48.61	3.53
5	11340.00	62.10 PK	74.00	-11.90	1.84 V	77	44.22	17.88
6	11340.00	48.82 AV	54.00	-5.18	1.84 V	77	30.94	17.88
7	#17010.00	64.73 PK	74.00	-9.27	1.12 V	203	41.68	23.05
8	#17010.00	51.02 AV	54.00	-2.98	1.12 V	203	27.97	23.05

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac 80MHz

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	59.09 PK	74.00	-14.91	1.14 H	198	56.05	3.04
2	#5470.00	49.03 AV	54.00	-4.97	1.14 H	198	45.99	3.04
3	*5530.00	97.17 PK			1.92 H	231	94.04	3.13
4	*5530.00	84.96 AV			1.92 H	231	81.83	3.13
5	11060.00	59.27 PK	74.00	-14.73	1.75 H	221	41.81	17.46
6	11060.00	48.25 AV	54.00	-5.75	1.75 H	221	30.79	17.46
7	#16590.00	61.98 PK	74.00	-12.02	1.57 H	226	41.02	20.96
8	#16590.00	50.24 AV	54.00	-3.76	1.57 H	226	29.28	20.96
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	63.53 PK	74.00	-10.47	1.17 V	208	60.49	3.04
2	#5470.00	53.36 AV	54.00	-0.64	1.17 V	208	50.32	3.04
3	*5530.00	99.28 PK			1.20 V	275	96.15	3.13
4	*5530.00	84.03 AV			1.20 V	275	80.90	3.13
5	11060.00	58.47 PK	74.00	-15.53	1.85 V	246	41.01	17.46
6	11060.00	46.31 AV	54.00	-7.69	1.85 V	246	28.85	17.46
7	#16590.00	61.73 PK	74.00	-12.27	1.00 V	272	40.77	20.96
8	#16590.00	49.59 AV	54.00	-4.41	1.00 V	272	28.63	20.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	100.21 PK			1.10 H	210	96.91	3.30
2	*5610.00	88.46 AV			1.10 H	210	85.16	3.30
3	#5725.00	64.67 PK	74.00	-9.33	2.21 H	174	61.14	3.53
4	#5725.00	52.04 AV	54.00	-1.96	2.21 H	174	48.51	3.53
5	11220.00	55.36 PK	74.00	-18.64	1.75 H	203	37.66	17.70
6	11220.00	48.93 AV	54.00	-5.07	1.75 H	203	31.23	17.70
7	#16830.00	63.54 PK	74.00	-10.46	1.49 H	236	41.40	22.14
8	#16830.00	49.52 AV	54.00	-4.48	1.49 H	236	27.38	22.14
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	99.69 PK			1.73 V	184	96.39	3.30
2	*5610.00	87.36 AV			1.73 V	184	84.06	3.30
3	#5725.00	61.51 PK	74.00	-12.49	1.00 V	275	57.98	3.53
4	#5725.00	50.48 AV	54.00	-3.52	1.00 V	275	46.95	3.53
5	11220.00	56.66 PK	74.00	-17.34	1.85 V	216	38.96	17.70
6	11220.00	46.33 AV	54.00	-7.67	1.85 V	216	28.63	17.70
7	#16830.00	61.66 PK	74.00	-12.34	1.19 V	207	39.52	22.14
8	#16830.00	50.32 AV	54.00	-3.68	1.19 V	207	28.18	22.14

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

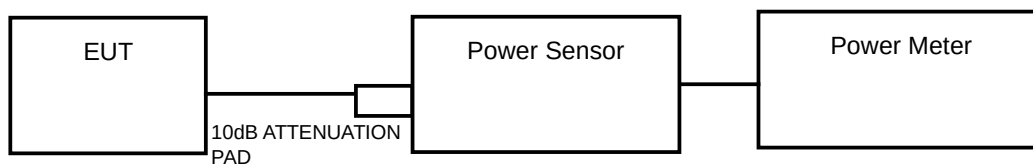
3.2 TRANSMIT POWER MEASUREMENT

3.2.1 LIMITS OF TRANSMIT POWER MEASUREMENT

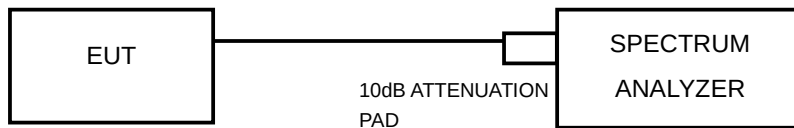
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-2C	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-3	√		1 Watt (30 dBm)

NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

3.2.2 TEST SETUP



FOR 6/26dB BANDWIDTH



3.2.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 19,18	May 18,19
Power Sensor	Keysight	U2021XA	MY55060018	May 19,18	May 18,19
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 21, 17	Oct.20, 18
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,17	Sep. 04,18
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 08,17	Nov. 07,18
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 04,17	Nov. 03,18
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 21,18	Mar. 20,19
Signal Generator	Agilent	N5183A	MY50140980	Jan. 02,18	Jan. 01,19
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jan. 02,18	Jan. 01,19
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	100908	Jan. 10, 18	Jan. 09, 19
Vector Signal Generator	Rohde&Schwarz	SMBV100A	257199	Apr. 18, 18	Apr. 17, 19
Attenuator	MINI	BW-S10W2 +	S130129FGE2	N/A	N/A

NOTE:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = RMS.
- 4) Trace mode = max hold.
- 5) 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%.

FOR 6dB BANDWIDTH

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) ≥ 3 RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) 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.

3.2.5 DEVIATION FROM TEST STANDARD

No deviation.

3.2.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.2.7 TEST RESULTS

OUTPUT POWER:

802.11a

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
52	5260	13.16	20.701	24.00	PASS
60	5300	13.19	20.845	24.00	PASS
64	5320	12.80	19.055	24.00	PASS
100	5500	15.36	34.356	24.00	PASS
116	5580	15.89	38.815	24.00	PASS
140	5700	13.69	23.388	24.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(23.64)=24.74dBm > 24dBm

802.11n (20MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
52	5260	13.03	20.091	24.00	PASS
60	5300	12.95	19.724	24.00	PASS
64	5320	12.65	18.408	24.00	PASS
100	5500	14.94	31.189	24.00	PASS
116	5580	15.53	35.727	24.00	PASS
140	5700	11.91	15.524	24.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(28.12)=25.49dBm > 24dBm

802.11n (40MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
54	5270	12.71	18.664	24.00	PASS
62	5310	10.25	10.593	24.00	PASS
102	5510	11.01	12.618	24.00	PASS
118	5590	15.45	35.075	24.00	PASS
134	5670	13.67	23.281	24.00	PASS

802.11ac (80MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
58	5290	9.47	8.851	24.00	PASS
106	5530	10.41	10.990	24.00	PASS
122	5610	13.56	22.699	24.00	PASS

26dB BANDWIDTH:

802.11a

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
52	5260	21.40	PASS
60	5300	21.46	PASS
64	5320	21.18	PASS
100	5500	22.98	PASS
116	5580	23.64	PASS
140	5700	21.17	PASS

802.11n (20MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
52	5260	22.41	PASS
60	5300	22.21	PASS
64	5320	21.65	PASS
100	5500	26.96	PASS
116	5580	28.12	PASS
140	5700	20.83	PASS

802.11n (40MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
54	5270	51.00	PASS
62	5310	46.09	PASS
102	5510	45.50	PASS
110	5550	65.05	PASS
134	5670	45.40	PASS

802.11ac (80MHz)

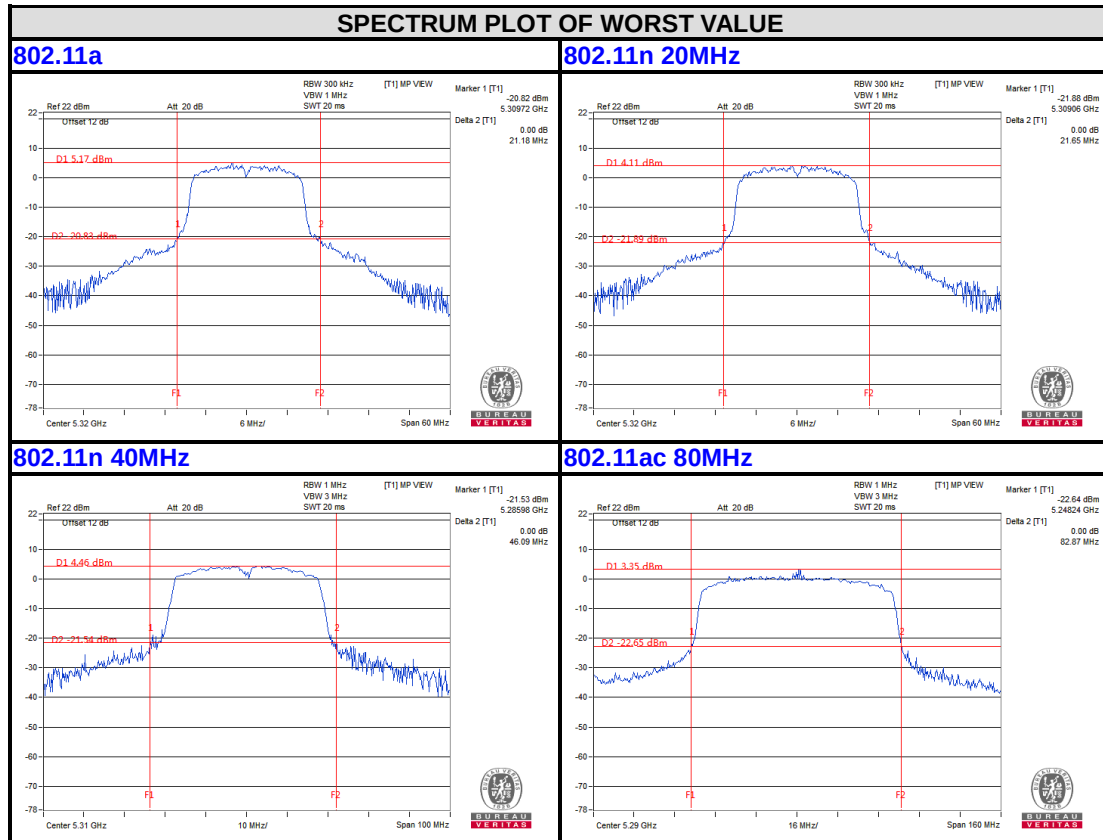
Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
58	5290	82.87	PASS
106	5530	82.56	PASS
122	5610	88.13	PASS



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Test Report No.: RF180718N068-1

26dB bandwidth Test Plot
For 5250-5350MHz



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Dongguan Branch

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Guangdong 523942, China

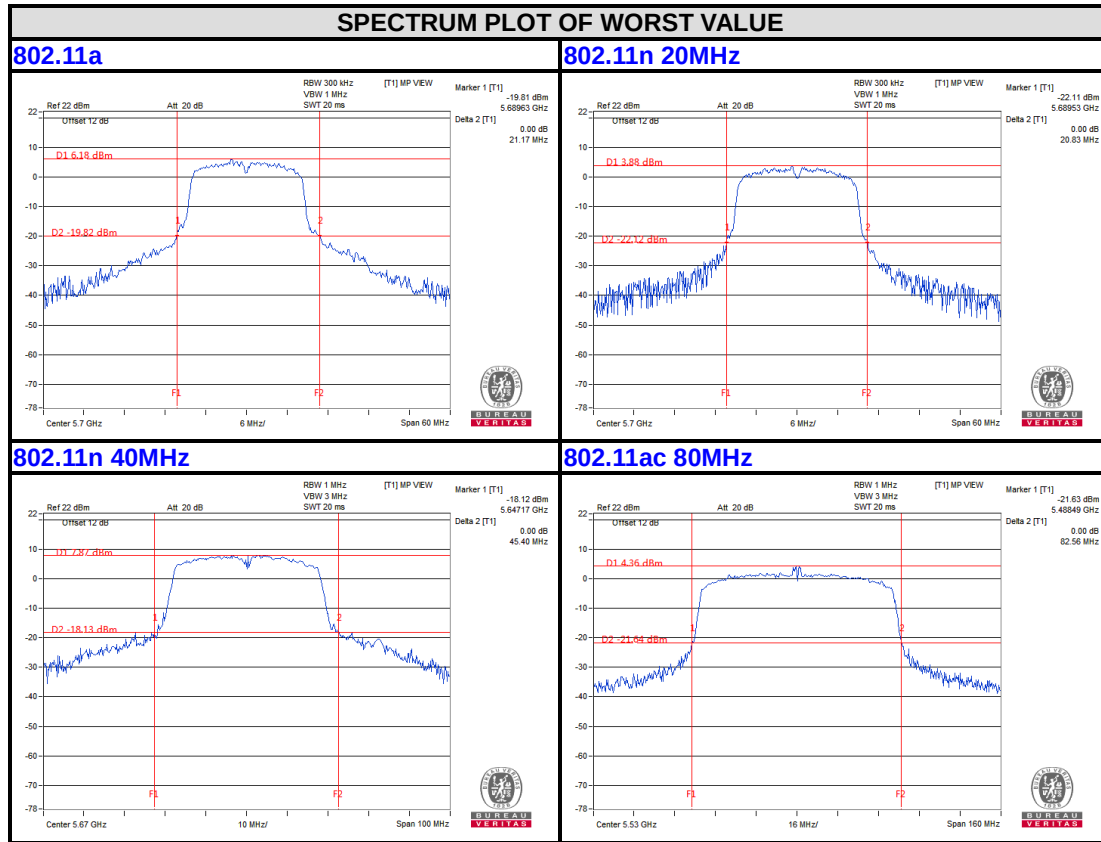
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Test Report No.: RF180718N068-1

For 5470-5725MHz



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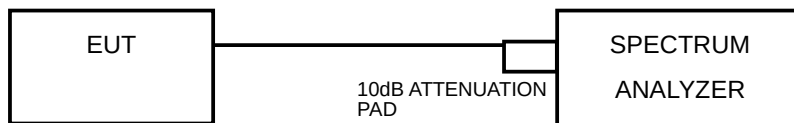
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3.3 PEAK POWER SPECTRAL DENSITY MEASUREMENT

3.3.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3			30dBm/ 500kHz

3.3.2 TEST SETUP



3.3.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.3.4 TEST PROCEDURES

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW = 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW = 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

Same as 3.3.6

3.3.7 TEST RESULTS

For U-NII-1, U-NII-2A & U-NII-2C, For U-NII-3:
802.11a

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)	MAX. Limit (dBm/MHz)	PASS / FAIL
52	5260	0.20	11.00	PASS
60	5300	0.50	11.00	PASS
64	5320	-0.06	11.00	PASS
100	5500	2.07	11.00	PASS
116	5580	2.89	11.00	PASS
140	5700	0.89	11.00	PASS

Note:

1. The directional gain is less than 6dBi, so the power density limit no need to reduce.
2. Refer to section 2.3 for duty cycle spectrum plot.

802.11n (20MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)	MAX. Limit (dBm)	PASS / FAIL
52	5260	-0.21	11.00	PASS
60	5300	-0.28	11.00	PASS
64	5320	-0.58	11.00	PASS
100	5500	1.73	11.00	PASS
116	5600	2.30	11.00	PASS
140	5700	-1.28	11.00	PASS

Note:

1. The directional gain is less than 6dBi, so the power density limit no need to reduce.
2. Refer to section 2.3 for duty cycle spectrum plot.

802.11n (40MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)	MAX. Limit (dBm)	PASS / FAIL
54	5270	-3.57	11.00	PASS
62	5310	-6.25	11.00	PASS
102	5510	-5.48	11.00	PASS
118	5590	-1.04	11.00	PASS
134	5670	-2.67	11.00	PASS

Note:

1. The directional gain is less than 6dBi, so the power density limit no need to reduce.
2. Refer to section 2.3 for duty cycle spectrum plot.

802.11ac (80MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)	MAX. Limit (dBm)	PASS / FAIL
58	5290	-10.37	11.00	PASS
106	5530	-9.34	11.00	PASS
122	5610	-5.42	11.00	PASS

Note:

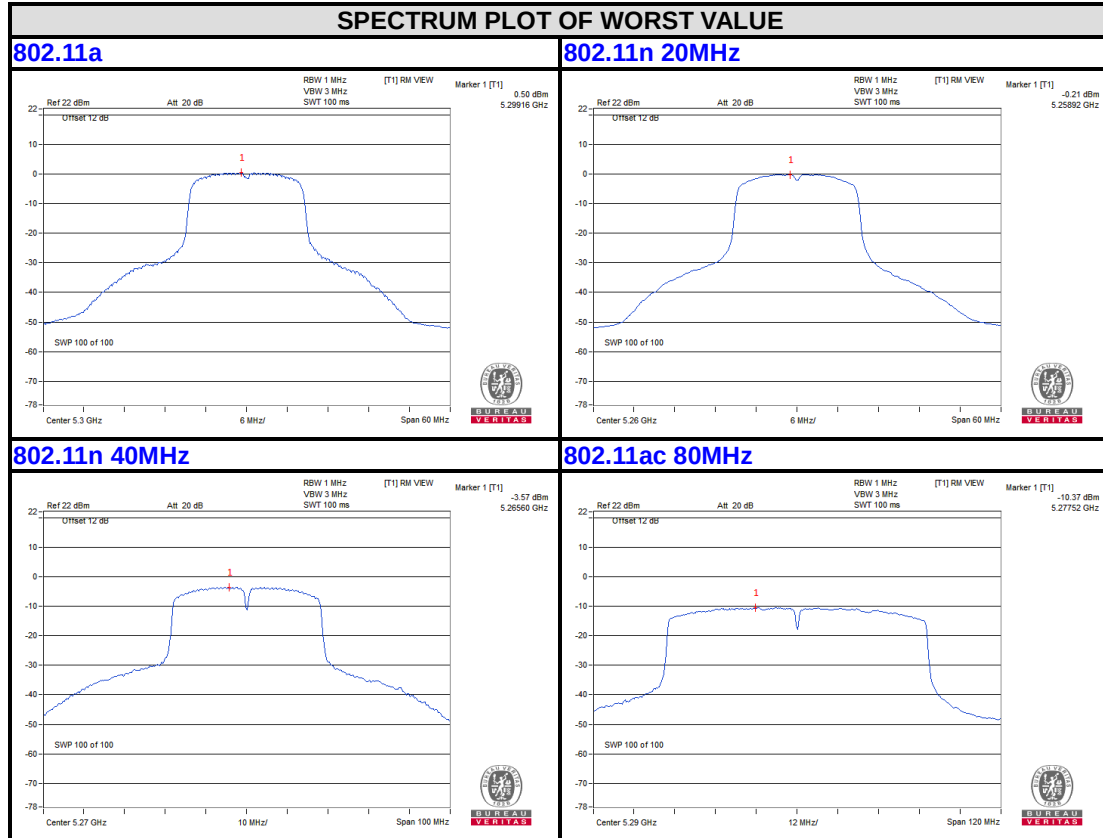
1. The directional gain is less than 6dBi, so the power density limit no need to reduce.
2. Refer to section 2.3 for duty cycle spectrum plot.



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Test Report No.: RF180718N068-1

PSD Test Plot
BAND 2
5250-5350MHz



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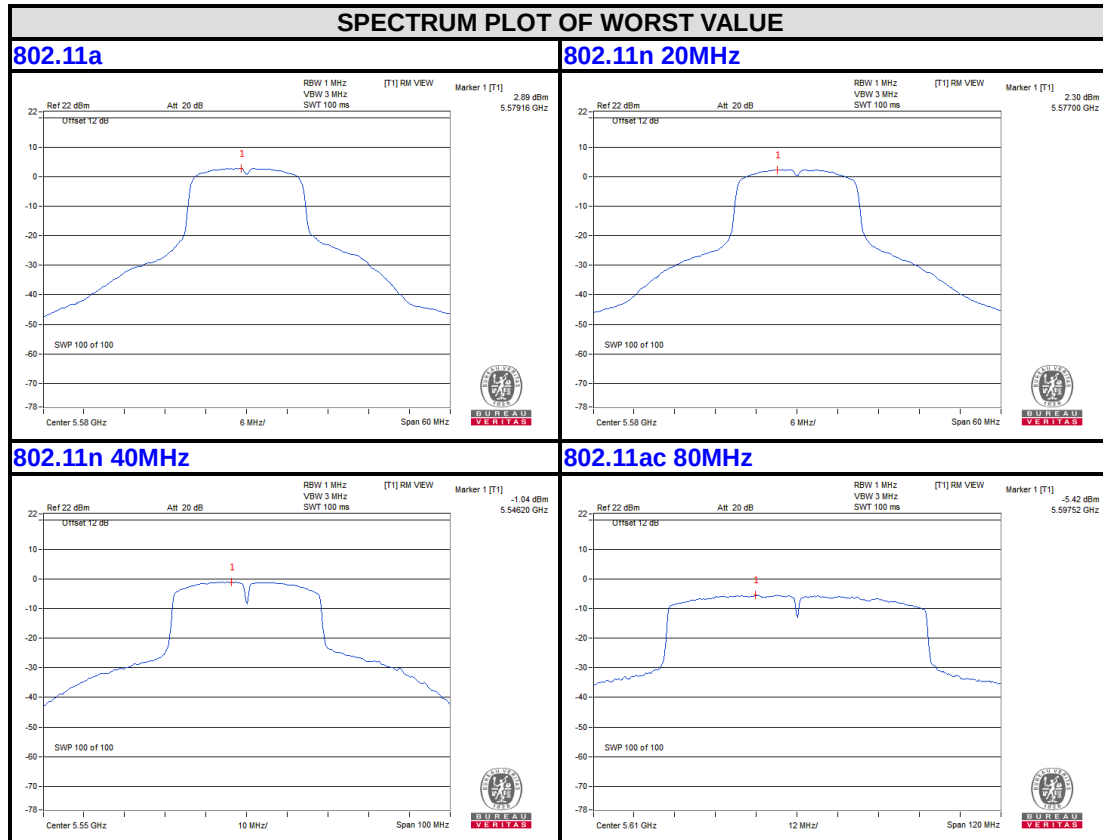
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BAND 3
5470-5725MHz



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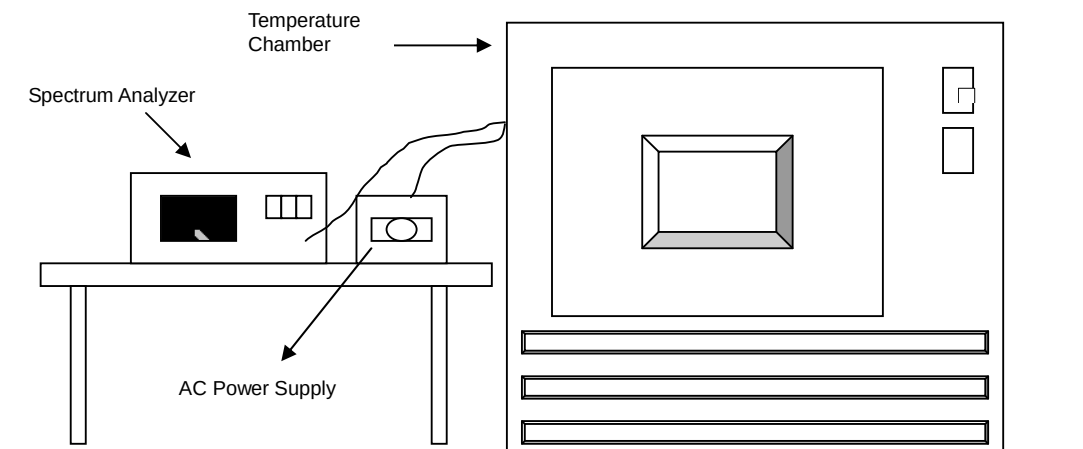
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3.4 FREQUENCY STABILITY

3.4.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITION

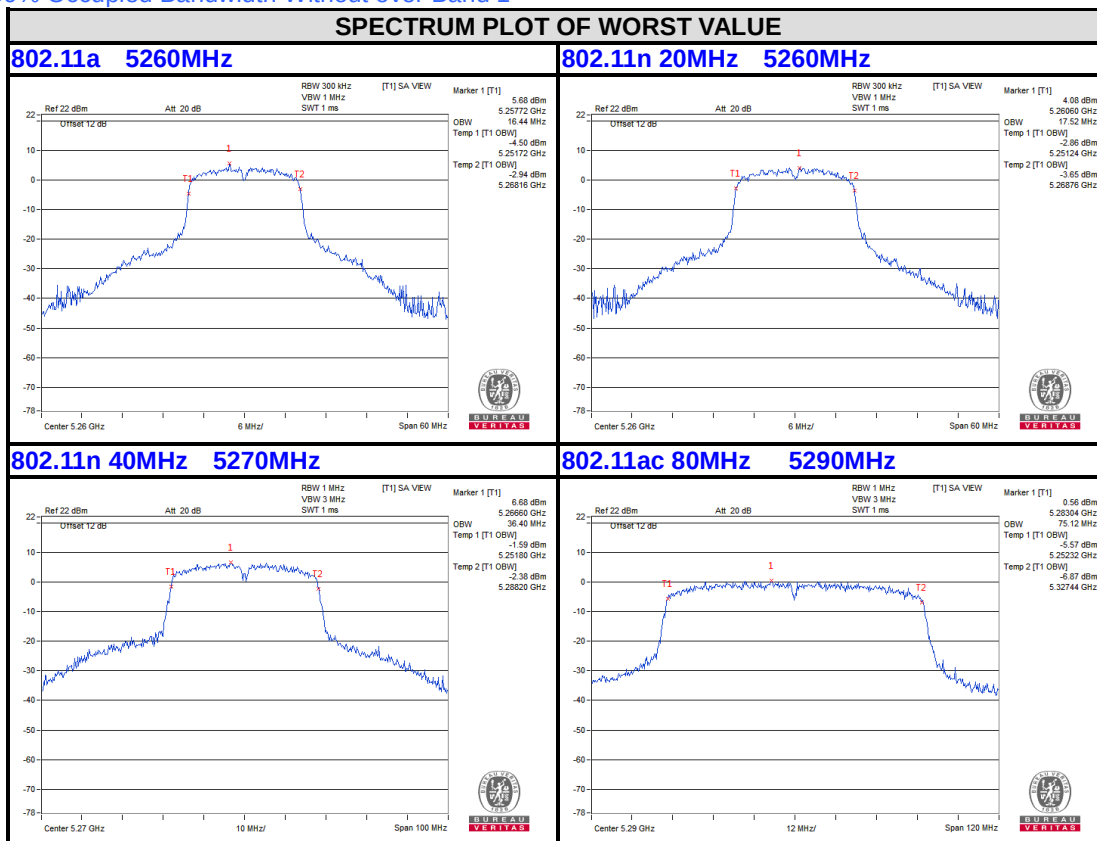
Set the EUT transmit at un-modulation mode to test frequency stability.

3.4.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5260MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	3.3	5259.9894	-0.00020	5259.9878	-0.00023	5259.9875	-0.00024	5259.9894	-0.00020
40	3.3	5260.0026	0.00005	5260.0047	0.00009	5260.0031	0.00006	5260.0013	0.00002
30	3.3	5260.0048	0.00009	5260.0046	0.00009	5260.0011	0.00002	5260.0016	0.00003
20	3.3	5260.0032	0.00006	5260.0021	0.00004	5260.0052	0.00010	5260.0067	0.00013
10	3.3	5259.975	-0.00048	5259.9757	-0.00046	5259.974	-0.00049	5259.974	-0.00049
0	3.3	5260.0067	0.00013	5260.0064	0.00012	5260.0056	0.00011	5260.0047	0.00009
-10	3.3	5259.9938	-0.00012	5259.9926	-0.00014	5259.995	-0.00010	5259.9947	-0.00010
-20	3.3	5260.0062	0.00012	5260.0053	0.00010	5260.0025	0.00005	5260.006	0.00011
-30	3.3	5260.0079	0.00015	5260.0106	0.00020	5260.0099	0.00019	5260.0069	0.00013

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5260MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
20	3.795	5260.0022	0.00004	5260.003	0.00006	5260.006	0.00011	5260.0077	0.00015
	3.3	5260.0032	0.00006	5260.0021	0.00004	5260.0052	0.00010	5260.0067	0.00013
	2.805	5260.004	0.00008	5260.0013	0.00002	5260.0044	0.00008	5260.0077	0.00015

Band 2
5250-5350MHz
99% Occupied Bandwidth Without over Band 1





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4. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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