Test Lab
Cert 2951.01

TEST REPORT

Applicant	TP-Link Technologies Co., Ltd.
Address	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Manufacturer or Supplier	TP-Link Technologies Co., Ltd.
Address	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product Name	AC1300 Wireless Dual Band USB Adapter
Brand Name	TP-Link
Model	Archer T4U
Additional Model & Model Difference	N/A
Date of tests	Oct. 20, 2016 ~ Nov. 14, 2016

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 Harry Li Project Engineer/ EMC Department	Approved by Chris Chen Manager / EMC Department
	Date: Dec. 02, 2016

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF160907N038-2	Original release.	Dec. 02, 2016

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	PASS	Meet the requirement of limit.
15.407(b) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	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
Conducted emissions	9kHz~30MHz	2.70dB
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	AC1300 Wireless Dual Band USB Adapter
MODEL NO.	Archer T4U
FCC ID	TE7T4UV2
POWER SUPPLY	DC 5V From USB
MODULATION TYPE	DSSS: DBPSK, DQPSK,CCK OFDM: 256QAM, 64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	DSSS,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 300.0Mbps 802.11ac : up to 867Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, (without open 5600~5650MHz) 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz):2 1 channel for 802.11ac 80MHz 5260 ~ 5320MHz: 4 channels for 802.11a, 802.11n (20MHz) 2 channels for 802.11n, 11ac (40MHz) 1 channel for 802.11ac (80MHz) 5500 ~ 5700MHz: (without open 5600~5650MHz) 8 channels for 802.11a, 802.11n (20MHz) 3 channels for 802.11n (40MHz) 1 channel for 802.11ac (80MHz) 5745 ~ 5825MHz: 5 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz) 1 channel for 802.11ac (80MHz)
CONDUCTED OUTPUT POWER	23.62 dBm for 5180 ~ 5240MHz (Maximum AVG Power) 23.80 dBm for 5260 ~ 5320MHz (Maximum AVG Power) 23.96 dBm for 5500 ~ 5700MHz (Maximum AVG Power) 24.20 dBm for 5745 ~ 5825MHz (Maximum AVG Power)
ANTENNA TYPE	5180 ~ 5240MHz: PIFA antenna with 2dBi gain 5260 ~ 5320MHz: PIFA antenna with 2dBi gain 5500 ~ 5700MHz: PIFA antenna with 2dBi gain 5745 ~ 5825MHz: PIFA antenna with 2dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Extension Cable (1m, Shielding)

NOTE:

1. The EUT incorporates a SIMO function. Physically, the EUT provides 1 completed transmitter and 1 receiver.

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802.11ac 80MHz	2TX/2RX
802. 11n 20MHz	2TX/2RX
802. 11n 40MHz	2TX/2RX

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

3. The EUT has disabled the 5600-5650MHz band by S/W to avoid Weather Channel

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
5. Please refer to the EUT photo document (Reference No.: 160907N038) for detailed product photo.

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	40	5200 MHz
44	5220 MHz	48	5240 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	--	--

FOR 5260 ~ 5320MHz

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 5500 ~ 5700MHz

8 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	132	5660 MHz
136	5680 MHz	140	5700 MHz

3 channels are provided for 802.11ac 40MHz, 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	110	5550 MHz
134	5670 MHz	--	--

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	--	--

FOR 5745 ~ 5825MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz	--	--

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775MHz	--	--

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	**Powered by USB 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 **Z-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	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
-	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
-	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	13.5
	802.11ac 80MHz		42	42	OFDM	BPSK	V0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
	802.11ac 80MHz		58	58	OFDM	BPSK	V0
-	802.11a	5500-5700	100 to 140	100, 112, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 112, 140	OFDM	BPSK	MCS0
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11ac 80MHz		106	106	OFDM	BPSK	V0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
-	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0
	802.11ac 80MHz		155	155	OFDM	BPSK	V0

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	5180-5240 5500-5700 5745-5825	36 to 48 100 to 140 149 to 165	36	OFDM	BPSK	6.0

POWER LINE CONDUCTED EMISSION TEST:

☒ 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	5180-5240 5500-5700 5745-5825	36 to 48 100 to 140 149 to 165	-	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	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
-	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
-	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	13.5
	802.11ac 80MHz		42	42	OFDM	BPSK	V0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
	802.11ac 80MHz		58	58	OFDM	BPSK	V0
-	802.11a	5500-5700	100 to 140	100, 112, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 112, 140	OFDM	BPSK	MCS0
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11ac 80MHz		106	106	OFDM	BPSK	V0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
-	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0
	802.11ac 80MHz		155	155	OFDM	BPSK	V0

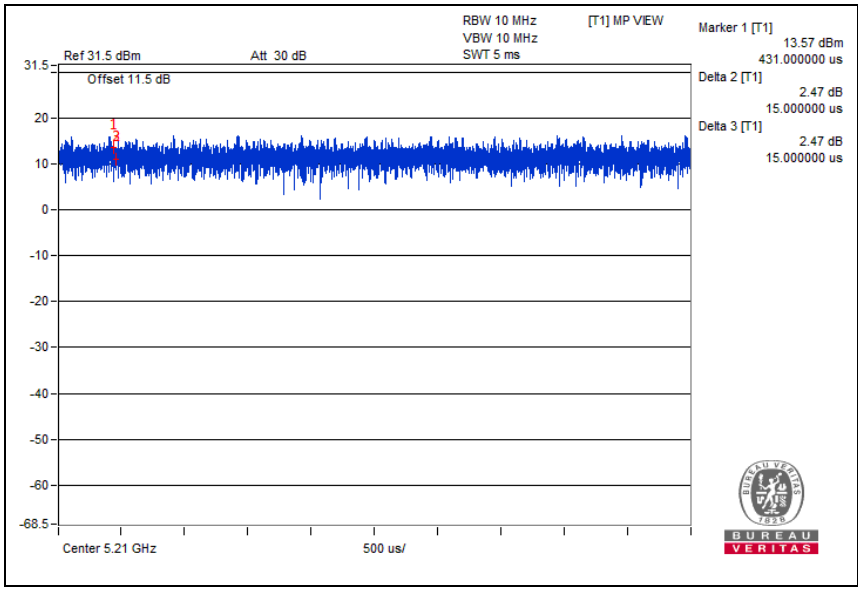
TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	24deg. C, 55%RH	DC 5V From USB	Eric Fang
RE≥1G	24deg. C, 55%RH	DC 5V From USB	Eric Fang
PLC	20deg. C, 56%RH	DC 5V From USB	Yang
APCM	20deg. C, 55%RH	DC 5V From USB	Harry Li

2.3 DUTY CYCLE OF TEST SIGNAL

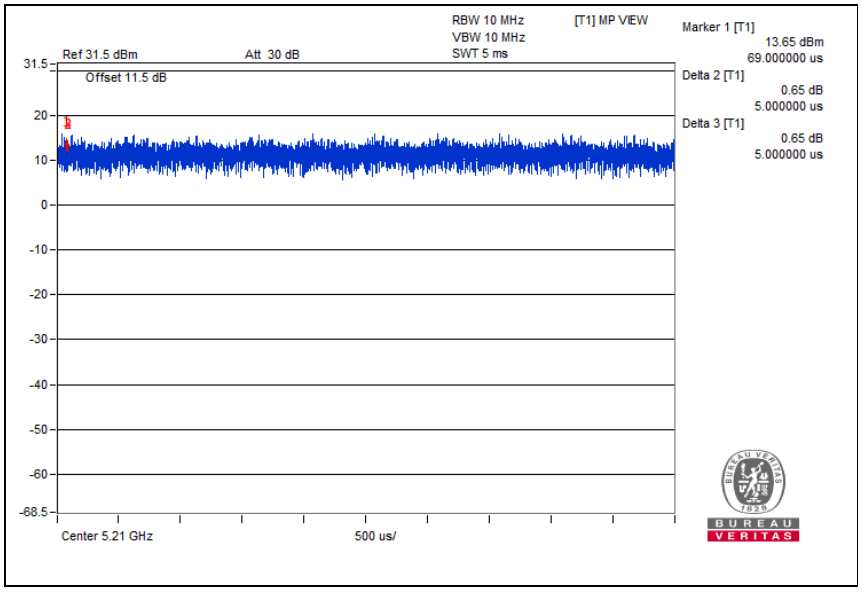
Chain 0:

Duty cycle of test signal is 100 %



Chain 1:

Duty cycle of test signal is 100 %



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	Notebook	DELL	5P2PM2X	12400120329	N/A
2	Printer	Lenovo	LJ2200L	LP02857415	N/A
3	Mouse	DELL	MS111-L	CN-09RRC7-44751-0C6-04TR	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.8m; DC Line: Unshielded, Detachable 1.8m;
2	AC Line: Unshielded, Detachable 1.8m, USB Line: Unshielded, Detachable 1.8m.
3	AC Line: Unshielded, Detachable 1.5m, USB Line: Unshielded, Detachable 1.5m.

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
ANSI C63.10-2013
KDB 662911D01 Multiple Transmitter Output v02r01

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:

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

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,16	Apr. 04,17
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 16	Jul. 13, 17
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 18,16	May 17,17
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar. 12,16	Mar. 11,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,16	Mar. 03, 17
Pre-Amplifier(1-18G)	HP	8449B	3008A00409	Apr. 25,16	Apr. 24,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03,17
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

NOTE:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments are 12, 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested.
4. The FCC Site Registration No. is 494399.

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:

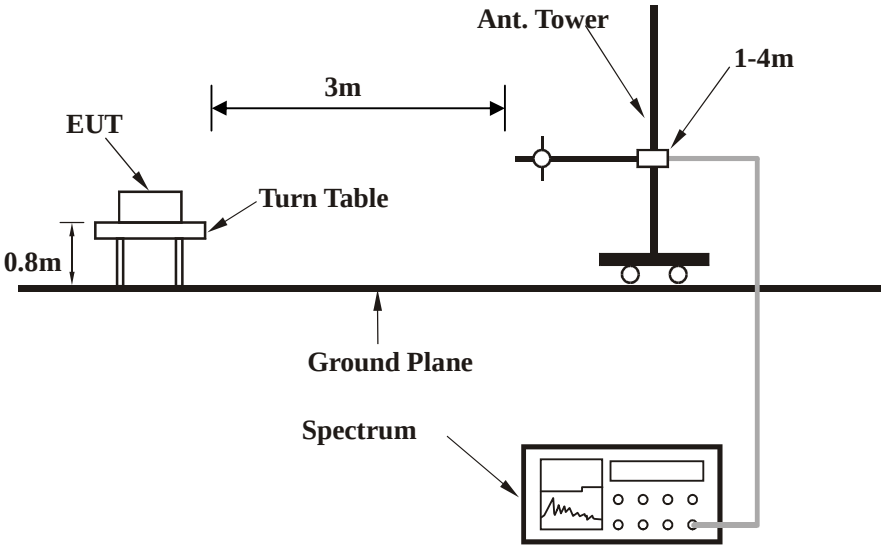
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 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.

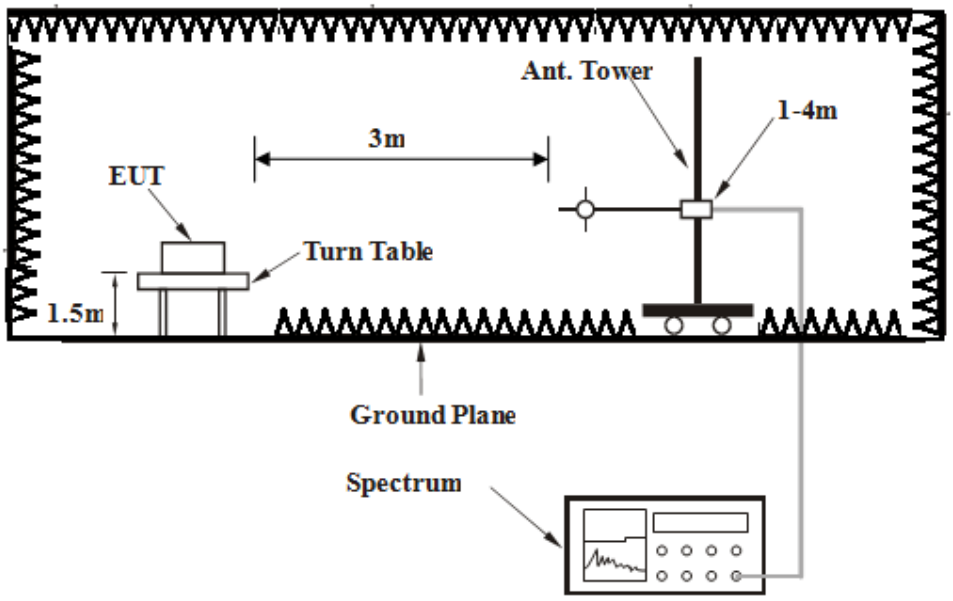
3.1.6 TEST SETUP

Below 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

a. Set the EUT under full load condition and placed them on a testing table.

b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.

c. The necessary accessories enable the EUT in full functions.

3.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

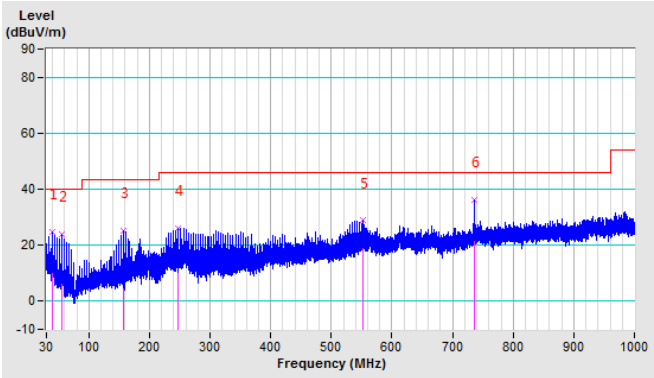
802.11a

CHANNEL	TX Channel 36	**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 (cm)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	38.88	24.68	40.00	-15.32	100	204	39.87	-15.19
2	55.28	23.95	40.00	-16.05	100	211	47.16	-23.21
3	157.68	25.07	43.50	-18.43	100	107	41.95	-16.88
4	247.80	25.92	46.00	-20.08	100	351	41.12	-15.20
5	551.50	28.82	46.00	-17.18	100	331	33.04	-4.22
6	**735.34**	**36.23**	**46.00**	**-9.77**	**100**	**124**	**37.05**	**-0.82**

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

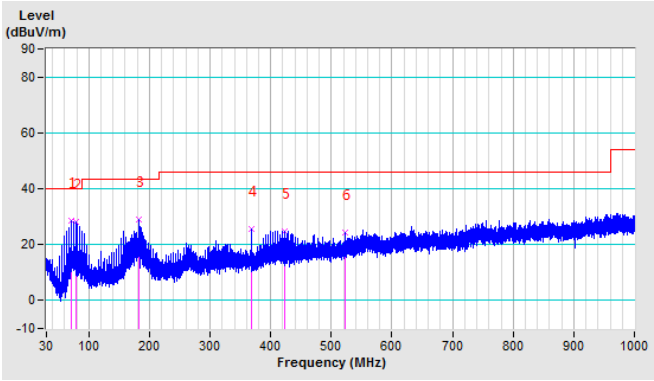


CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	71.65	28.73	40.00	-11.27	150	202	52.49	-23.76
2	79.86	28.07	40.00	-11.93	150	300	49.70	-21.63
3	182.23	28.87	43.50	-14.63	150	57	48.05	-19.18
4	367.65	25.76	46.00	-20.24	150	143	36.93	-11.17
5	423.91	24.69	46.00	-21.31	150	89	33.70	-9.01
6	522.21	24.37	46.00	-21.63	150	175	30.37	-6.00

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



Band 1 (5180-5240MHz):

ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5149.90	68.64 PK	74.00	-5.36	1.74 H	230	60.17	8.47
2	5149.90	53.14 AV	54.00	-0.86	1.74 H	230	44.67	8.47
3	*5180.00	104.73 PK			1.70 H	229	96.21	8.52
4	*5180.00	95.82 AV			1.70 H	229	87.30	8.52
5	#10360.00	63.54 PK	74.00	-10.46	1.92 H	230	43.31	20.23
6	#10360.00	48.18 AV	54.00	-5.82	2.30 H	192	27.95	20.23
7	15540.00	58.72 PK	74.00	-15.28	2.71 H	251	36.03	22.69
8	15540.00	47.01 AV	54.00	-6.99	2.71 H	251	24.32	22.69
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	5149.90	67.26 PK	74.00	-6.74	1.79 V	207	58.79	8.47
2	5149.90	52.14 AV	54.00	-1.86	1.79 V	207	43.67	8.47
3	*5180.00	104.66 PK			3.14 V	207	96.14	8.52
4	*5180.00	95.56 AV			3.14 V	207	87.04	8.52
5	#10360.00	64.36 PK	74.00	-9.64	1.96 V	224	44.13	20.23
6	#10360.00	49.25 AV	54.00	-4.75	1.96 V	224	29.02	20.23
7	15540.00	59.64 PK	74.00	-14.36	2.41 V	177	36.95	22.69
8	15540.00	46.93 AV	54.00	-7.07	2.41 V	177	24.24	22.69

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 other emission levels were very low 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 40	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5149.90	61.00 PK	74.00	-13.00	1.95 H	210	52.53	8.47
2	5149.90	48.88 AV	54.00	-5.12	1.95 H	210	40.41	8.47
3	*5200.00	108.61 PK			1.50 H	227	100.27	8.34
4	*5200.00	100.37 AV			1.50 H	227	92.03	8.34
5	#10400.00	64.25 PK	74.00	-9.75	1.74 H	190	44.94	19.31
6	#10400.00	49.15 AV	54.00	-4.85	1.74 H	190	29.84	19.31
7	15600.00	67.58 PK	74.00	-6.42	3.03 H	230	45.99	21.59
8	15600.00	47.60 AV	54.00	-6.40	3.03 H	230	26.01	21.59
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	5149.90	59.31 PK	74.00	-14.69	1.42 V	240	50.84	8.47
2	5149.90	48.50 AV	54.00	-5.50	1.42 V	240	40.03	8.47
3	*5200.00	108.18 PK			3.00 V	230	99.84	8.34
4	*5200.00	99.07 AV			3.00 V	230	90.73	8.34
5	#10400.00	64.89 PK	74.00	-9.11	1.50 V	117	45.58	19.31
6	#10400.00	50.34 AV	54.00	-3.66	1.50 V	117	31.03	19.31
7	15600.00	66.37 PK	74.00	-7.63	2.77 V	109	44.78	21.59
8	15600.00	47.73 AV	54.00	-6.27	2.77 V	109	26.14	21.59

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 other emission levels were very low 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 48	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	53.12 PK	74.00	-20.88	3.52 H	276	44.65	8.47
2	5150.00	41.92 AV	54.00	-12.08	3.52 H	276	33.45	8.47
3	*5240.00	106.38 PK			3.52 H	276	97.78	8.60
4	*5240.00	94.47 AV			3.52 H	276	85.87	8.60
5	#10480.00	61.74 PK	74.00	-12.26	1.27 H	231	41.40	20.34
6	#10480.00	50.64 AV	54.00	-3.36	1.27 H	231	30.40	20.34
7	15720.00	58.19 PK	74.00	-15.81	2.01 H	249	35.37	22.82
8	15720.00	46.66 AV	54.00	-7.34	2.01 H	249	23.84	22.82
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	53.02 PK	74.00	-20.98	1.92 V	227	44.55	8.47
2	5150.00	42.34 AV	54.00	-11.66	1.92 V	227	33.87	8.47
3	*5240.00	105.10 PK			1.92 V	227	96.50	8.60
4	*5240.00	100.39 AV			1.94 V	227	91.79	8.60
5	#10480.00	66.04 PK	74.00	-7.96	1.70 V	204	45.70	20.34
6	#10480.00	50.90 AV	54.00	-3.10	1.70 V	204	30.56	20.34
7	15720.00	59.54 PK	74.00	-14.46	2.01 H	249	36.72	22.82
8	15720.00	48.59 AV	54.00	-5.41	2.01 H	249	25.77	22.82

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 other emission levels were very low 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 36	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	59.25 PK	74.00	-14.75	1.80 H	224	50.78	8.47
2	5150.00	51.50 AV	54.00	-2.50	1.80 H	224	43.03	8.47
3	#5180.00	101.95 PK			2.47 H	220	93.43	8.52
4	#5180.00	93.49 AV			2.47 H	220	84.97	8.52
5	#10360.00	58.19 PK	74.00	-15.81	1.48 H	233	37.96	20.23
6	#10360.00	45.87 AV	54.00	-8.13	1.48 H	233	25.64	20.23
7	15540.00	54.17 PK	74.00	-19.83	4.00 H	241	31.48	22.69
8	15540.00	42.04 AV	54.00	-11.96	4.00 H	241	19.35	22.69
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	63.46 PK	74.00	-10.54	3.43 V	279	54.99	8.47
2	5150.00	51.41 AV	54.00	-2.59	3.43 V	279	42.94	8.47
3	#5180.00	106.69 PK			1.70 V	279	98.17	8.52
4	#5180.00	97.91 AV			1.70 V	279	89.39	8.52
5	#10360.00	60.07 PK	74.00	-13.93	1.78 V	289	39.84	20.23
6	#10360.00	44.12 AV	54.00	-9.88	1.78 V	289	23.89	20.23
7	15540.00	56.41 PK	74.00	-17.59	1.83 V	284	33.72	22.69
8	15540.00	42.43 AV	54.00	-11.57	1.83 V	284	19.74	22.69

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " # ": The radiated frequency is out of the restricted band.

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

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	5149.90	59.44 PK	74.00	-14.56	1.80 H	261	50.97	8.47
2	5149.90	47.60 AV	54.00	-6.40	1.80 H	261	39.13	8.47
3	*5200.00	108.35 PK			1.57 H	304	100.01	8.34
4	*5200.00	99.08 AV			1.57 H	304	90.74	8.34
5	#10400.00	59.34 PK	74.00	-14.66	1.92 H	105	40.03	19.31
6	#10400.00	44.78 AV	54.00	-9.22	1.92 H	105	25.47	19.31
7	15600.00	60.02 PK	74.00	-13.98	2.44 H	200	38.43	21.59
8	15600.00	47.31 AV	54.00	-6.69	2.44 H	200	25.72	21.59
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	5149.90	57.19 PK	74.00	-16.81	1.50 V	200	48.72	8.47
2	5149.90	47.13 AV	54.00	-6.87	1.50 V	200	38.66	8.47
3	*5200.00	106.79 PK			1.00 V	216	98.45	8.34
4	*5200.00	97.35 AV			1.00 V	216	89.01	8.34
5	#10400.00	62.73 PK	74.00	-11.27	1.84 V	294	43.42	19.31
6	#10400.00	49.38 AV	54.00	-4.62	1.84 V	294	30.07	19.31
7	15600.00	65.14 PK	74.00	-8.86	2.50 V	185	43.55	21.59
8	15600.00	46.32 AV	54.00	-7.68	2.50 V	185	24.73	21.59

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 other emission levels were very low 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 48	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	52.14 PK	74.00	-21.86	1.51 H	258	43.67	8.47
2	5150.00	38.14 AV	54.00	-15.86	1.51 H	258	29.67	8.47
3	*5240.00	102.81 PK			1.62 H	258	94.21	8.60
4	*5240.00	93.19 AV			1.62 H	258	84.59	8.60
5	#10480.00	59.42 PK	74.00	-14.58	1.58 H	270	39.08	20.34
6	#10480.00	48.40 AV	54.00	-5.60	1.58 H	270	28.06	20.34
7	15720.00	56.64 PK	74.00	-17.36	1.77 H	204	33.82	22.82
8	15720.00	42.71 AV	54.00	-11.29	1.77 H	204	19.89	22.82
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	53.01 PK	74.00	-20.99	1.70 V	247	44.54	8.47
2	5150.00	40.22 AV	54.00	-13.78	1.70 V	247	31.75	8.47
3	*5240.00	104.22 PK			1.54 V	201	95.62	8.60
4	*5240.00	93.71 AV			1.54 V	201	85.11	8.60
5	#10480.00	58.44 PK	74.00	-15.56	2.75 V	211	38.10	20.34
6	#10480.00	49.54 AV	54.00	-4.46	2.75 V	211	29.20	20.34
7	15720.00	57.12 PK	74.00	-16.88	1.98 V	194	34.30	22.82
8	15720.00	44.03 AV	54.00	-9.97	1.98 V	294	21.21	22.82

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 other emission levels were very low 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 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	60.84 PK	74.00	-13.16	2.88 H	269	52.37	8.47
2	5150.00	48.22 AV	54.00	-5.78	2.88 H	269	39.75	8.47
3	*5190.00	98.65 PK			2.88 H	269	90.12	8.53
4	*5190.00	89.12 AV			2.88 H	269	80.59	8.53
5	#10380.00	57.57 PK	74.00	-16.43	2.45 H	256	37.32	20.25
6	#10380.00	46.18 AV	54.00	-7.82	2.45 H	256	25.93	20.25
7	15570.00	54.12 PK	74.00	-19.88	2.32 H	304	31.41	22.71
8	15570.00	44.01 AV	54.00	-9.99	2.32 H	304	21.30	22.71
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	65.25 PK	74.00	-8.75	1.60 V	308	56.78	8.47
2	5150.00	50.13 AV	54.00	-3.87	1.60 V	308	41.66	8.47
3	*5190.00	100.47 PK			1.60 V	308	91.94	8.53
4	*5190.00	90.27 AV			1.60 V	308	81.74	8.53
5	#10380.00	58.14 PK	74.00	-15.86	1.54 V	314	37.89	20.25
6	#10380.00	47.61 AV	54.00	-6.39	1.54 V	314	27.36	20.25
7	15570.00	53.14 PK	74.00	-20.86	1.56 V	310	30.43	22.71
8	15570.00	42.51 AV	54.00	-11.49	1.56 V	310	19.80	22.71

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 other emission levels were very low 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 46	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	60.13 PK	74.00	-13.87	1.72 H	227	51.66	8.47
2	5150.00	44.04 AV	54.00	-9.96	1.72 H	227	35.57	8.47
3	*5230.00	104.20 PK			1.72 H	227	95.61	8.59
4	*5230.00	92.91 AV			1.72 H	227	84.32	8.59
5	#10460.00	60.54 PK	74.00	-13.46	1.80 H	193	40.22	20.32
6	#10460.00	50.61 AV	54.00	-3.39	1.80 H	193	30.29	20.32
7	15690.00	57.24 PK	74.00	-16.76	1.58 H	204	34.44	22.80
8	15690.00	46.17 AV	54.00	-7.83	1.58 H	204	23.37	22.80
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	53.12 PK	74.00	-20.88	1.47 V	58	44.65	8.47
2	5150.00	36.01 AV	54.00	-17.99	1.47 V	58	27.54	8.47
3	#5230.00	102.70 PK			1.47 V	78	93.99	8.59
4	#5230.00	90.01 AV			1.47 V	78	81.30	8.59
5	#10460.00	58.40 PK	74.00	-15.60	1.60 V	81	38.08	20.32
6	#10460.00	46.74 AV	54.00	-7.26	1.60 V	81	26.42	20.32
7	15690.00	56.01 PK	74.00	-17.99	1.55 V	124	33.21	22.80
8	15690.00	46.17 AV	54.00	-7.83	1.55 V	124	23.37	22.80

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 other emission levels were very low 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 42	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	61.30 PK	74.00	-12.70	1.52 H	254	52.83	8.47
2	5150.00	48.94 AV	54.00	-5.06	1.52 H	254	40.47	8.47
3	*5210.00	97.14 PK			1.52 H	254	88.59	8.55
4	*5210.00	87.87 AV			1.52 H	254	79.32	8.55
5	#10420.00	57.14 PK	74.00	-16.86	1.29 H	233	36.86	20.28
6	#10420.00	47.02 AV	54.00	-6.98	1.29 H	233	26.74	20.28
7	15630.00	56.50 PK	74.00	-17.50	1.74 H	233	33.75	22.75
8	15630.00	44.84 AV	54.00	-9.16	1.74 H	233	22.09	22.75
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	5150.00	64.60 PK	74.00	-9.40	3.27 V	311	56.13	8.47
2	5150.00	50.86 AV	54.00	-3.14	3.27 V	311	42.39	8.47
3	*5210.00	97.03 PK			3.27 V	311	88.48	8.55
4	*5210.00	87.11 AV			3.27 V	311	78.56	8.55
5	#10420.00	55.72 PK	74.00	-18.28	1.92 V	311	35.44	20.28
6	#10420.00	43.61 AV	54.00	-10.39	1.92 V	311	23.33	20.28
7	15630.00	58.31 PK	74.00	-15.69	1.50 V	310	35.56	22.75
8	15630.00	45.63 AV	54.00	-8.37	1.50 V	310	22.88	22.75

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band 2 (5260-5320MHz):

ABOVE 1GHz DATA

802.11a

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

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	100.02 PK			1.23 H	41	91.39	8.63
2	*5260.00	91.39 AV			1.23 H	41	82.76	8.63
3	5350.00	59.77 PK	74.00	-14.23	1.30 H	41	51.00	8.77
4	5350.00	41.87 AV	54.00	-12.13	1.30 H	41	33.10	8.77
5	10520.00	59.30 PK	74.00	-14.70	1.18 H	39	39.18	20.12
6	10520.00	49.93 AV	54.00	-4.07	1.18 H	39	29.81	20.12
7	15780.00	58.75 PK	74.00	-15.25	1.15 H	44	36.01	22.74
8	15780.00	46.54 AV	54.00	-7.46	1.15 H	44	23.80	22.74
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	104.10 PK			1.30 V	138	95.47	8.63
2	*5260.00	97.86 AV			1.30 V	138	89.23	8.63
3	5350.00	60.44 PK	74.00	-13.56	1.04 V	131	51.67	8.77
4	5350.00	42.45 AV	54.00	-11.55	1.04 V	131	33.68	8.77
5	10520.00	62.80PK	74.00	-11.20	1.12 V	171	42.68	20.12
6	10520.00	51.90 AV	54.00	-2.10	1.12 V	171	31.78	20.12
7	15780.00	59.24 PK	74.00	-14.76	1.54 V	89	36.50	22.74
8	15780.00	46.51 AV	54.00	-7.49	1.54 V	89	23.77	22.74

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	101.38 PK			1.51 H	163	92.72	8.66
2	*5300.00	92.20 AV			1.51 H	163	83.54	8.66
3	5350.00	65.59 PK	74.00	-8.41	1.70 H	168	56.82	8.77
4	5350.00	48.84 AV	54.00	-5.16	1.70 H	168	40.07	8.77
5	10600.00	59.24 PK	74.00	-14.76	1.94 H	104	38.89	20.35
6	10600.00	50.77 AV	54.00	-3.23	1.94 H	104	30.42	20.35
7	15900.00	59.32 PK	74.00	-14.68	2.31 H	303	36.51	22.81
8	15900.00	46.36 AV	54.00	-7.64	2.31 H	303	23.55	22.81
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	104.70 PK			2.04 V	120	96.04	8.66
2	*5300.00	96.97 AV			2.04 V	120	88.31	8.66
3	5350.00	66.35 PK	74.00	-7.65	2.85 V	124	57.58	8.77
4	5350.00	48.71 AV	54.00	-5.29	2.85 V	124	39.94	8.77
5	10600.00	63.34 PK	74.00	-10.66	1.65 V	273	42.99	20.35
6	10600.00	52.73 AV	54.00	-1.27	1.65 V	273	32.38	20.35
7	15900.00	62.48 PK	74.00	-11.52	1.14 V	355	39.67	22.81
8	15900.00	47.25 AV	54.00	-6.75	1.14 V	355	24.44	22.81

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	103.45 PK			2.19 H	76	94.73	8.72
2	*5320.00	91.36 AV			2.19 H	76	82.64	8.72
3	5350.00	63.01 PK	74.00	-10.99	2.19 H	76	54.24	8.77
4	5350.00	51.75 AV	54.00	-2.25	2.19 H	76	42.98	8.77
5	10640.00	56.96 PK	74.00	-17.04	1.71 H	203	36.40	20.56
6	10640.00	50.93 AV	54.00	-3.07	1.71 H	203	30.37	20.56
7	15960.00	54.23 PK	74.00	-19.77	1.64 H	196	31.23	23.00
8	15960.00	43.77 AV	54.00	-10.23	1.64 H	196	20.77	23.00
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	105.38 PK			2.43 V	309	96.66	8.72
2	*5320.00	95.76 AV			2.43 V	309	87.04	8.72
3	5350.00	62.85 PK	74.00	-11.15	2.43 V	309	54.08	8.77
4	5350.00	49.80 AV	54.00	-4.20	2.43 V	309	41.03	8.77
5	10640.00	64.01 PK	74.00	-9.99	1.74 V	203	43.45	20.56
6	10640.00	50.32 AV	54.00	-3.68	1.74 V	203	29.76	20.56
7	15960.00	59.14 PK	74.00	-14.86	1.42 V	255	36.14	23.00
8	15960.00	43.37 AV	54.00	-10.63	1.42 V	255	20.37	23.00

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

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	100.20 PK			1.20 H	188	91.57	8.63
2	*5260.00	91.06 AV			1.20 H	188	82.43	8.63
3	5350.00	59.55 PK	74.00	-14.45	1.17 H	188	50.78	8.77
4	5350.00	42.18 AV	54.00	-11.82	1.17H	188	33.41	8.77
5	10520.00	59.46 PK	74.00	-14.54	1.90 H	264	39.34	20.12
6	10520.00	50.67 AV	54.00	-3.33	1.90 H	264	30.55	20.12
7	15780.00	58.82 PK	74.00	-15.18	2.10 H	350	36.08	22.74
8	15780.00	46.96 AV	54.00	-7.04	2.10 H	350	24.24	22.74
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	104.10 PK			1.30 V	138	95.47	8.63
2	*5260.00	97.86 AV			1.30 V	138	89.23	8.63
3	5350.00	60.39 PK	74.00	-13.61	1.04 V	131	51.62	8.77
4	5350.00	42.36 AV	54.00	-11.64	1.04 V	131	33.59	8.77
5	10520.00	62.96 PK	74.00	-11.04	1.12 V	171	42.84	20.12
6	10520.00	50.13 AV	54.00	-3.87	1.12 V	171	30.01	20.12
7	15780.00	58.72 PK	74.00	-15.28	1.54 V	89	35.98	22.74
8	15780.00	46.58 AV	54.00	-7.49	1.54 V	89	23.84	22.74

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	101.77 PK			1.50 H	355	93.11	8.66
2	*5300.00	92.83 AV			1.50 H	355	84.17	8.66
3	5350.00	65.79 PK	74.00	-8.21	1.50 H	304	57.02	8.77
4	5350.00	49.31 AV	54.00	-4.69	1.50 H	304	40.54	8.77
5	10600.00	58.97 PK	74.00	-15.03	1.90 H	218	38.62	20.35
6	10600.00	50.68 AV	54.00	-3.32	1.90 H	218	30.33	20.35
7	15900.00	59.28 PK	74.00	-14.72	1.00 H	249	36.47	22.81
8	15900.00	46.82 AV	54.00	-7.18	1.00 H	249	24.01	22.81
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	104.99PK			1.00 V	300	96.33	8.66
2	*5300.00	97.08 AV			1.00 V	300	88.42	8.66
3	5350.00	66.17 PK	74.00	-7.83	1.00 V	300	57.4	8.77
4	5350.00	47.51 AV	54.00	-6.49	1.00 V	300	38.74	8.77
5	10600.00	62.89 PK	74.00	-11.11	1.40 V	253	42.54	20.35
6	10600.00	52.86 AV	54.00	-1.14	1.40 V	253	32.51	20.35
7	15900.00	62.85 PK	74.00	-11.15	2.70 V	146	40.04	22.81
8	15900.00	47.74 AV	54.00	-6.26	2.70 V	146	24.93	22.81

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	103.73 PK			2.00 H	10	95.01	8.72
2	*5320.00	91.69 AV			2.00 H	10	82.97	8.72
3	5350.00	63.16 PK	74.00	-10.84	2.00 H	10	54.39	8.77
4	5350.00	51.91 AV	54.00	-2.09	2.00 H	10	43.14	8.77
5	10640.00	57.03 PK	74.00	-16.97	1.00 H	355	36.47	20.56
6	10640.00	51.01 AV	54.00	-2.99	1.00 H	355	30.45	20.56
7	15960.00	54.33 PK	74.00	-19.67	1.82 H	290	31.33	23.00
8	15960.00	44.20 AV	54.00	-9.80	1.82 H	290	21.20	23.00
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	104.73 PK			1.10 V	221	96.01	8.72
2	*5320.00	96.06 AV			1.10 V	221	87.34	8.72
3	5350.00	62.88 PK	74.00	-11.12	1.10 V	220	54.11	8.77
4	5350.00	50.01 AV	54.00	-3.99	1.10 V	220	41.24	8.77
5	10640.00	64.38 PK	74.00	-9.62	1.50 V	4	43.82	20.56
6	10640.00	50.77 AV	54.00	-3.23	1.50 V	4	30.21	20.56
7	15960.00	59.55 PK	74.00	-14.45	1.89 V	273	36.55	23.00
8	15960.00	43.37 AV	54.00	-10.57	1.89 V	273	20.43	23.00

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11n (40MHz)

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

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	*5270.00	103.34 PK			1.42 H	172	94.66	8.68
2	*5270.00	91.40 AV			1.42 H	172	82.72	8.68
3	5350.00	58.98 PK	74.00	-15.02	1.42 H	172	50.21	8.77
4	5350.00	46.84 AV	54.00	-7.16	1.42 H	172	38.07	8.77
5	10540.00	58.84 PK	74.00	-15.16	2.10 H	104	38.46	20.38
6	10540.00	47.15 AV	54.00	-6.85	2.10 H	104	26.77	20.38
7	15810.00	56.42 PK	74.00	-17.58	1.00 H	342	33.59	22.83
8	15810.00	46.52 AV	54.00	-7.48	1.00 H	342	23.69	22.83
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	*5270.00	99.60 PK			1.50 V	14	90.92	8.68
2	*5270.00	89.75 AV			1.50 V	14	81.07	8.68
3	5350.00	57.10 PK	74.00	-16.90	1.50 V	23	48.33	8.77
4	5350.00	45.97 AV	54.00	-8.03	1.50 V	23	37.20	8.77
5	10540.00	60.20 PK	74.00	-13.80	1.90 V	243	39.82	20.38
6	10540.00	46.79 AV	54.00	-7.21	1.90 V	243	26.41	20.38
7	15810.00	54.90 PK	74.00	-19.10	1.60 V	5	32.07	22.83
8	15810.00	46.57 AV	54.00	-7.43	1.60 V	5	23.74	22.83

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	100.76 PK			1.60 H	228	92.05	8.71
2	*5310.00	90.10 AV			1.60 H	228	81.39	8.71
3	5350.00	65.74 PK	74.00	-8.26	1.60 H	228	56.97	8.77
4	5350.00	53.35 AV	54.00	-0.65	1.60 H	228	44.58	8.77
5	10620.00	58.17 PK	74.00	-15.83	1.50 H	224	37.64	20.53
6	10620.00	46.54 AV	54.00	-7.46	1.50 H	224	26.01	20.53
7	15930.00	54.17 PK	74.00	-19.83	1.50 H	153	31.19	22.98
8	15930.00	46.02 AV	54.00	-7.98	1.50 H	153	23.04	22.98
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	97.54 PK			1.54 V	150	88.83	8.71
2	*5310.00	87.76 AV			1.54 V	150	79.05	8.71
3	5350.00	62.22 PK	74.00	-11.78	1.54 V	150	53.45	8.77
4	5350.00	50.01 AV	54.00	-3.99	1.54 V	150	41.24	8.77
5	10620.00	59.94 PK	74.00	-14.06	1.70 V	164	39.41	20.53
6	10620.00	47.12 AV	54.00	-6.88	1.70 V	164	26.59	20.53
7	15930.00	54.17 PK	74.00	-19.83	1.67 V	203	31.19	22.98
8	15930.00	45.84 AV	54.00	-8.16	1.67 V	203	22.86	22.98

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11ac 80MHz

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

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	97.52 PK			1.95 H	229	88.83	8.69
2	*5290.00	86.87 AV			1.95 H	229	78.18	8.69
3	5350.00	66.27 PK	74.00	-7.73	1.95 H	229	57.50	8.77
4	**5350.00**	**53.71 AV**	**54.00**	**-0.29**	**1.95 H**	**229**	**44.94**	**8.77**
5	#10580.00	60.77 PK	74.00	-13.23	2.33 H	201	40.30	20.47
6	#10580.00	48.96 AV	54.00	-5.04	2.33 H	201	28.49	20.47
7	15870.00	58.87 PK	74.00	-15.13	1.83 H	206	35.93	22.94
8	15870.00	46.01 AV	54.00	-7.99	1.83 H	206	23.07	22.94
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	95.96 PK			1.62 V	90	87.27	8.69
2	*5290.00	84.83 AV			1.62 V	90	76.14	8.69
3	5350.00	61.84 PK	74.00	-12.16	1.62 V	90	53.07	8.77
4	5350.00	50.03 AV	54.00	-3.97	1.62 V	90	41.26	8.77
5	#10580.00	59.41 PK	74.00	-14.59	2.11 V	241	38.94	20.47
6	#10580.00	48.01 AV	54.00	-5.99	2.11 V	241	27.54	20.47
7	15870.00	57.12 PK	74.00	-16.88	2.09 V	254	34.18	22.94
8	15870.00	46.33 AV	54.00	-7.67	2.09 V	254	23.39	22.94

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 other emission levels were very low 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 (5500-5700MHz):

ABOVE 1GHz DATA

802.11a

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

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	65.13 PK	74.00	-8.87	1.67 H	63	56.18	8.95
2	#5470.00	52.16 AV	54.00	-1.84	1.67 H	63	43.21	8.95
3	*5500.00	100.62 PK			1.28 H	63	91.62	9.00
4	*5500.00	91.66 AV			1.28 H	63	82.66	9.00
5	11000.00	61.30 PK	74.00	-12.70	1.11 H	69	40.20	21.10
6	11000.00	50.25 AV	54.00	-3.75	1.11 H	69	29.15	21.10
7	#16500.00	60.49 PK	74.00	-13.51	1.06 H	71	36.82	23.67
8	#16500.00	48.07 AV	54.00	-5.93	1.06 H	71	24.40	23.67
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	66.55 PK	74.00	-7.46	1.00 V	223	57.60	8.95
2	#5470.00	53.42 AV	54.00	-0.58	1.00 H	223	44.47	8.95
3	*5500.00	104.96 PK			1.34 V	222	95.96	9.00
4	*5500.00	96.03 AV			1.34 V	222	87.03	9.00
5	11000.00	65.51 PK	74.00	-8.49	1.85 V	220	44.41	21.10
6	11000.00	53.62 AV	54.00	-0.38	1.85 V	220	32.52	21.10
7	#16500.00	59.92 PK	74.00	-14.08	1.24 V	204	36.25	23.67
8	#16500.00	48.18 AV	54.00	-5.82	1.24 V	204	24.51	23.67

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 other emission levels were very low 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 112	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	54.20 PK	74.00	-19.80	1.00 H	60	45.25	8.95
2	#5470.00	43.37 AV	54.00	-10.63	1.00 H	60	34.42	8.95
3	*5560.00	100.40 PK			1.48 H	63	91.07	9.33
4	*5560.00	91.37 AV			1.48 H	63	82.04	9.33
5	#5725.00	55.41 PK	78.20	-22.79	1.04 H	72	45.21	10.20
6	11120.00	56.80 PK	74.00	-17.20	1.04 H	65	36.14	20.66
7	11120.00	47.41 AV	54.00	-6.59	1.04 H	65	26.75	20.66
8	#16680.00	58.74 PK	74.00	-15.26	1.40 H	27	34.36	24.38
9	#16680.00	46.41 AV	54.00	-7.59	1.40 H	27	22.03	24.38
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	53.74 PK	74.00	-20.26	1.14 V	301	44.79	8.95
2	#5470.00	44.51 AV	54.00	-9.49	1.14 H	301	35.56	8.95
3	*5560.00	104.17 PK			1.47 V	306	94.84	9.33
4	*5560.00	95.92 AV			1.47 V	306	86.59	9.33
5	#5725.00	55.45 PK	78.20	-22.75	1.41 V	279	45.25	10.20
6	11490.00	63.49 PK	74.00	-10.51	2.14 V	309	44.19	19.30
7	11490.00	51.88 AV	54.00	-2.12	2.14 V	309	32.58	19.30
8	#16680.00	60.22 PK	74.00	-13.78	1.53 V	279	35.84	24.38
9	#16680.00	48.40 AV	54.00	-5.60	1.53 V	279	24.02	24.38

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	104.11 PK			2.71 H	82	94.04	10.07
2	*5700.00	92.18 AV			2.71 H	82	82.11	10.07
3	#5725.00	67.71 PK	78.20	-10.49	2.35 H	87	57.51	10.20
4	11400.00	58.91 PK	74.00	-15.09	1.76 H	58	39.29	19.62
5	11400.00	45.84 AV	54.00	-8.16	1.76 H	58	26.22	19.62
6	#17100.00	59.40 PK	74.00	-14.60	1.47 H	76	33.70	25.70
7	#17100.00	47.71 AV	54.00	-6.29	1.47 H	76	22.01	25.70
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	*5700.00	105.85 PK			2.83 V	222	95.78	10.07
2	*5700.00	97.28 AV			2.83 V	222	87.21	10.07
3	#5733.00	67.79 PK	78.20	-10.41	1.08 V	229	57.54	10.25
5	11400.00	62.65 PK	74.00	-11.35	1.41 V	202	43.03	19.62
6	11400.00	50.86 AV	54.00	-3.14	1.41 V	202	31.24	19.62
7	#17100.00	61.25 PK	74.00	-12.75	1.84 V	187	35.55	25.70
8	#17100.00	47.69 AV	54.00	-6.31	1.84 V	187	21.99	25.70

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	67.01 PK	74.00	-6.99	1.81 H	75	58.06	8.95
2	#5470.00	51.69 AV	54.00	-2.31	1.81 H	75	42.74	8.95
3	*5500.00	103.00 PK			2.24 H	75	94.00	9.00
4	*5500.00	90.80 AV			2.24 H	75	81.80	9.00
5	11000.00	59.81 PK	74.00	-14.19	3.04 H	121	38.71	21.10
6	11000.00	51.02 AV	54.00	-2.98	3.04 H	121	29.92	21.10
7	#16500.00	56.04 PK	74.00	-17.96	1.76 H	95	32.37	23.67
8	#16500.00	46.17 AV	54.00	-7.83	1.76 H	95	22.50	23.67
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	65.43 PK	74.00	-8.57	1.93 V	307	56.48	8.95
2	#5470.00	52.54 AV	54.00	-1.46	1.93 H	307	43.59	8.95
3	*5500.00	104.30 PK			1.94 V	307	95.30	9.00
4	*5500.00	93.64 AV			1.94 V	307	84.64	9.00
5	11000.00	63.01 PK	74.00	-10.99	1.95 V	289	41.91	21.10
6	11000.00	50.92 AV	54.00	-3.08	1.95 V	289	29.82	21.10
7	#16500.00	59.43 PK	74.00	-14.57	2.03 V	331	35.76	23.67
8	#16500.00	44.02 AV	54.00	-9.98	2.03 V	331	20.35	23.67

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 other emission levels were very low 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 112	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	52.49 PK	74.00	-21.51	1.32 H	92	43.54	8.95
2	#5470.00	43.90 AV	54.00	-10.10	1.32 H	92	34.95	8.95
3	*5560.00	102.44 PK			1.32 H	92	93.11	9.33
4	*5560.00	90.13 AV			1.32 H	92	80.80	9.33
5	#5725.00	48.47 PK	78.20	-29.73	1.32 H	92	38.27	10.20
6	11120.00	61.47 PK	74.00	-12.53	1.84 H	101	40.81	20.66
7	11120.00	50.31 AV	54.00	-3.69	1.84 H	101	29.65	20.66
8	#16680.00	56.12 PK	74.00	-17.88	3.04 H	96	31.74	24.38
9	#16680.00	42.91 AV	54.00	-11.09	3.04 H	96	18.53	24.38
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	50.01 PK	74.00	-23.99	1.12 V	316	41.06	8.95
2	#5470.00	41.66 AV	54.00	-13.34	1.12 H	316	32.71	8.95
3	*5560.00	103.79 PK			1.12 V	322	94.46	9.33
4	*5560.00	92.01 AV			1.12 V	322	82.68	9.33
5	#5725.00	49.27 PK	78.20	-28.93	1.12 V	204	39.07	10.20
6	11120.00	59.59 PK	74.00	-14.41	1.47 V	351	38.93	20.66
7	11120.00	51.21 AV	54.00	-2.79	1.47 V	351	30.55	20.66
8	#16680.00	58.17 PK	74.00	-15.83	3.08 V	328	33.79	24.38
9	#16680.00	43.84 AV	54.00	-10.16	3.08 V	328	19.46	24.38

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	102.11 PK			1.34 H	252	92.04	10.07
2	*5700.00	90.63 AV			1.34 H	252	80.56	10.07
3	#5725.00	63.49 PK	78.20	-14.71	1.34 H	252	53.29	10.20
4	11400.00	60.14 PK	74.00	-13.86	1.55 H	207	40.52	19.62
5	11400.00	49.13 AV	54.00	-4.87	1.55 H	207	29.51	19.62
6	#17100.00	56.12 PK	74.00	-17.88	2.08 H	191	30.42	25.70
7	#17100.00	43.77 AV	54.00	-10.23	2.08 H	191	18.07	25.70
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	*5700.00	106.99 PK			1.75 V	222	96.92	10.07
2	*5700.00	96.12 AV			1.75 V	222	86.05	10.07
3	#5725.00	67.78 PK	78.20	-10.42	1.00 V	222	57.58	10.20
4	11400.00	59.63 PK	74.00	-14.37	1.47 V	231	40.01	19.62
5	11400.00	49.86 AV	54.00	-4.14	1.47 V	231	30.24	19.62
6	#17100.00	56.04 PK	74.00	-17.96	1.03 V	218	30.34	25.70
7	#17100.00	44.27 AV	54.00	-9.73	1.03 V	218	18.57	25.70

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	66.23 PK	74.00	-7.77	1.90 H	251	57.28	8.95
2	#5470.00	49.89 AV	74.00	-4.11	1.90 H	251	40.94	8.95
3	*5510.00	97.73 PK			1.90 H	251	88.68	9.05
4	*5510.00	87.34 AV			1.90 H	251	78.29	9.05
5	11020.00	58.51 PK	74.00	-15.49	1.83 H	207	37.48	21.03
6	11020.00	47.45 AV	54.00	-6.55	1.83 H	207	26.42	21.03
7	#16530.00	56.14 PK	74.00	-17.86	1.74 H	267	32.35	23.79
8	#16530.00	46.61 AV	54.00	-7.39	1.74 H	267	22.82	23.79
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	67.47 PK	74.00	-6.53	1.34 V	227	58.52	8.95
2	#5470.00	52.58 AV	74.00	-1.42	1.34 H	227	43.63	8.95
3	*5510.00	103.97 PK			1.34 V	277	94.92	9.05
4	*5510.00	94.21 AV			1.34 V	277	85.16	9.05
5	11020.00	60.11 PK	74.00	-13.89	1.42 V	204	39.08	21.03
6	11020.00	48.74 AV	54.00	-5.26	1.42 V	204	27.71	21.03
7	#16530.00	56.71 PK	74.00	-17.29	1.54 V	242	32.92	23.79
8	#16530.00	45.94 AV	54.00	-8.06	1.54 V	242	22.15	23.79

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	56.56 PK	74.00	-17.44	2.44 H	250	47.61	8.95
2	#5470.00	43.02 AV	74.00	-10.98	2.44 H	250	34.07	8.95
3	*5550.00	103.14 PK			2.44 H	250	93.87	9.27
4	*5550.00	91.81 AV			2.44 H	250	82.54	9.27
5	#5725.00	55.51 PK	78.20	-22.69	2.44 H	250	45.31	10.20
6	11100.00	61.14 PK	74.00	-12.86	2.77 H	203	40.40	20.74
7	11100.00	50.08 AV	54.00	-3.92	2.77 H	203	29.34	20.74
8	#16650.00	56.01 PK	74.00	-17.99	2.04 H	218	31.75	24.26
9	#16650.00	46.26 AV	54.00	-7.74	2.04 H	218	22.00	24.26
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	58.14 PK	74.00	-15.86	1.79 V	252	49.19	8.95
2	#5470.00	46.03 AV	54.00	-7.97	1.79 V	252	37.08	8.95
3	*5550.00	105.42 PK			1.79 V	252	96.15	9.27
4	*5550.00	93.62 AV			1.79 V	252	84.35	9.27
5	#5725.00	56.03 PK	78.20	-22.17	1.79 V	252	45.83	10.20
6	11100.00	63.71 PK	74.00	-10.29	2.23 V	201	43.01	20.70
7	11100.00	51.33 AV	54.00	-2.67	2.23 V	201	30.63	20.70
8	#16650.00	56.01 PK	74.00	-17.99	2.44 V	301	31.75	24.26
9	#16650.00	45.73 AV	54.00	-8.27	2.44 V	301	21.47	24.26

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	99.80 PK			2.00 H	27	90.17	9.63
2	*5670.00	90.06 AV			2.00 H	27	80.43	9.63
3	#5725.00	66.99 PK	78.20	-11.21	2.00 H	43	56.79	10.20
4	11340.00	60.14 PK	74.00	-13.86	1.44 H	295	41.01	19.13
5	11340.00	47.86 AV	54.00	-6.14	1.44 H	295	28.73	19.13
6	#17010.00	54.56 PK	74.00	-19.44	3.08 H	89	30.55	24.01
7	#17010.00	45.08 AV	54.00	-8.92	3.08 H	89	21.07	24.01
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	101.37 PK			1.00 V	118	91.74	9.63
2	*5670.00	90.96 AV			1.00 V	118	81.33	9.63
3	#5725.00	76.14 PK	78.20	-2.06	1.00 V	118	65.94	10.20
4	11340.00	61.94 PK	74.00	-12.06	1.79 V	351	42.81	19.13
5	11340.00	49.64 AV	54.00	-4.36	1.79 V	351	30.51	19.13
6	#17010.00	55.72 PK	74.00	-18.28	2.80 V	260	31.71	24.01
7	#17010.00	45.55 AV	54.00	-8.45	2.80 V	260	21.54	24.01

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	62.03 PK	74.00	-11.97	2.01 H	250	53.08	8.95
2	#5470.00	49.12 AV	54.00	-4.88	2.01 V	250	40.17	8.95
3	*5530.00	97.71 PK			2.01 H	250	88.55	9.16
4	*5530.00	87.86 AV			2.01 H	250	78.70	9.16
5	11060.00	57.74 PK	74.00	-16.26	1.64 H	213	36.86	20.88
6	11060.00	48.01 AV	54.00	-5.99	1.64 H	213	27.13	20.88
7	#17325.00	56.17 PK	74.00	-17.83	1.90 H	247	30.35	25.82
8	#17325.00	45.57 AV	54.00	-8.43	1.90 H	247	19.75	25.82
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	67.77 PK	74.00	-6.23	1.62 V	307	58.82	8.95
2	#5470.00	52.36 AV	54.00	-1.64	2.01 V	250	43.41	8.95
3	*5530.00	101.14 PK			1.62 V	307	91.98	9.16
4	*5530.00	89.65 AV			1.62 V	307	80.49	9.16
5	11060.00	58.84 PK	74.00	-15.16	1.74 V	301	37.96	20.88
6	11060.00	46.22 AV	54.00	-7.78	1.74 V	301	25.34	20.88
7	#16590.00	57.71 PK	74.00	-16.29	1.70 V	322	33.68	24.03
8	#16590.00	46.03 AV	54.00	-7.97	1.70 V	322	22.00	24.03

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band 4 (5745-5825MHz):

ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5650.00	51.24 PK	68.2	-16.96	1.08 H	132	41.44	9.80
2	#5700.00	60.74 PK	105.2	-44.46	1.43 H	103	50.67	10.07
3	#5720.00	70.84 PK	110.8	-39.96	1.40 H	107	60.66	10.18
4	#5725.00	79.23 PK	122.2	-42.97	1.07 H	104	69.03	10.20
5	*5745.00	103.74 PK			1.07 H	88	93.43	10.31
6	*5745.00	91.94 AV			1.07 H	88	81.63	10.31
7	11490.00	58.53 PK	74.00	-15.47	1.88 H	147	39.23	19.30
8	11490.00	46.93 AV	54.00	-7.07	1.88 H	147	27.63	19.30
9	#17235.00	59.84 PK	74.00	-14.16	1.47 H	108	34.07	25.77
10	#17235.00	48.12 AV	54.00	-5.88	1.47 H	108	22.35	25.77
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	#5650.00	59.99 PK	68.2	-8.21	1.71 V	298	50.19	9.80
2	#5700.00	65.39 PK	105.2	-39.81	1.47 V	312	55.32	10.07
3	#5720.00	75.17 PK	110.8	-35.63	1.04 V	291	64.99	10.18
4	#5725.00	84.80 PK	122.2	-37.4	3.01 V	308	74.60	10.20
5	*5745.00	105.23 PK			3.02 V	308	94.92	10.31
6	*5745.00	96.96 AV			3.02 V	308	86.65	10.31
7	11490.00	65.48 PK	74.00	-8.52	1.33 V	272	46.18	19.30
8	11490.00	52.24 AV	54.00	-1.76	1.33 V	272	32.94	19.30
9	#17235.00	60.65 PK	74.00	-13.35	1.07 V	277	34.88	25.77
10	#17235.00	47.69 AV	54.00	-6.31	1.07 V	277	21.92	25.77

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 other emission levels were very low 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 157	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5725.00	53.87 PK	122.2	-68.33	1.74 H	101	43.67	10.20
2	*5785.00	104.12 PK			1.34 H	98	93.59	10.53
3	*5785.00	91.77 AV			1.34 H	98	81.24	10.53
4	#5850.00	53.64 PK	122.2	-68.56	1.47 H	89	42.76	10.88
5	11570.00	57.31 PK	74.00	-16.69	1.84 H	100	38.06	19.25
6	11570.00	45.23 AV	54.00	-8.77	1.84 H	100	25.98	19.25
7	#17355.00	60.11 PK	74.00	-13.89	3.14 H	127	34.27	25.84
8	#17355.00	46.74 AV	54.00	-7.26	3.14 H	127	20.90	25.84
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	#5725.00	60.82 PK	122.2	-61.38	1.41 V	284	50.62	10.20
2	*5785.00	105.68 PK			1.08 V	309	95.15	10.53
3	*5785.00	96.52 AV			1.08 V	309	85.99	10.53
4	#5850.00	59.84 PK	122.2	-62.36	1.83 V	312	48.96	10.88
5	11570.00	63.60 PK	74.00	-10.40	2.04 V	294	44.35	19.25
6	11570.00	52.71 AV	54.00	-1.29	2.04 V	294	33.46	19.25
7	#17355.00	59.41 PK	74.00	-14.59	1.94 V	272	33.57	25.84
8	#17355.00	48.01 AV	54.00	-5.99	1.94 V	272	22.17	25.84

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 other emission levels were very low 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 165	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5825.00	102.54 PK			2.38 H	42	91.79	10.75
2	*5825.00	90.89 AV			2.38 H	42	80.14	10.75
3	#5850.00	72.08 PK	122.2	-50.12	1.75 H	53	61.20	10.88
4	#5855.00	71.17 PK	110.8	-39.63	1.74 H	45	60.27	10.90
5	#5875.00	66.74 PK	105.2	-38.46	1.74 H	45	55.73	11.01
6	#5925.00	56.01 PK	68.2	-12.19	1.74 H	45	44.73	11.28
7	11650.00	62.14 PK	74.00	-11.86	1.72 H	103	42.90	19.24
8	11650.00	50.51 AV	54.00	-3.49	1.72 H	103	31.27	19.24
9	#17475.00	59.48 PK	74.00	-14.52	1.41 H	55	33.58	25.90
10	#17475.00	46.57 AV	54.00	-7.43	1.41 H	55	20.67	25.90
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	*5825.00	106.73 PK			1.41 V	308	95.98	10.75
2	*5825.00	97.17 AV			1.41 V	308	86.42	10.75
3	#5850.00	78.11 PK	122.2	-44.09	1.22 V	288	67.23	10.88
4	#5855.00	73.14 PK	110.8	-37.66	1.41 V	304	62.24	10.90
5	#5875.00	64.54 PK	105.2	-40.66	1.04 V	301	53.53	11.01
6	#5925.00	57.96 PK	68.2	-10.24	1.07 V	295	46.68	11.28
7	11650.00	63.81 PK	74.00	-10.19	1.09 V	281	44.57	19.24
8	11650.00	51.21 AV	54.00	-2.79	1.09 V	281	31.97	19.24
9	#17475.00	60.12 PK	74.00	-13.88	1.06 V	296	34.22	25.90
10	#17475.00	48.02 AV	54.00	-5.98	1.06 V	296	22.12	25.90

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 other emission levels were very low 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 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5650.00	54.39 PK	68.2	-13.81	1.72 H	329	44.59	9.80
2	#5700.00	67.48 PK	105.2	-37.72	1.72 H	329	57.41	10.07
3	#5720.00	76.89 PK	110.8	-33.91	1.72 H	329	66.71	10.18
4	#5725.00	76.44 PK	122.2	-45.76	1.72 H	329	66.24	10.20
5	*5745.00	106.27 PK			1.72 H	329	95.96	10.31
6	*5745.00	96.84 AV			1.72 H	329	86.53	10.31
7	11490.00	60.14 PK	74.00	-13.86	1.53 H	301	40.84	19.30
8	11490.00	51.93 AV	54.00	-2.07	1.53 H	301	32.63	19.30
9	#17235.00	56.48 PK	74.00	-17.52	1.50 H	308	30.71	25.77
10	#17235.00	44.03 AV	54.00	-9.97	1.50 H	308	18.26	25.77
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	#5650.00	52.27 PK	68.2	-15.93	1.20 V	14	42.47	9.80
2	#5700.00	65.31 PK	105.2	-39.89	1.20 V	14	55.24	10.07
3	#5720.00	70.29 PK	110.8	-40.51	1.20 V	14	60.11	10.18
4	#5725.00	70.13 PK	122.2	-52.07	1.20 V	14	59.93	10.20
5	*5745.00	102.99 PK			1.20 V	14	92.68	10.31
6	*5745.00	90.86 AV			1.72 V	14	80.55	10.31
7	11490.00	61.04 PK	74.00	-12.96	1.40 V	356	41.74	19.30
8	11490.00	49.91 AV	54.00	-4.09	1.40 V	356	30.61	19.30
9	#17235.00	55.81 PK	74.00	-18.19	1.45 V	11	30.04	25.77
10	#17235.00	44.23 AV	54.00	-9.77	1.45 V	11	18.46	25.77

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 other emission levels were very low 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 157	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5725.00	53.51 PK	122.2	-68.69	1.18 H	304	43.31	10.20
2	*5785.00	101.54 PK			1.18 H	308	91.01	10.53
3	*5785.00	90.21 AV			1.18 H	304	79.68	10.53
4	11570.00	60.55 PK	74.00	-13.45	1.20 H	0	41.30	19.25
5	11570.00	49.01 AV	54.00	-4.99	1.20 H	0	29.76	19.25
6	#17355.00	56.42 PK	74.00	-17.58	1.24 H	354	30.58	25.84
7	#17355.00	44.37 AV	54.00	-9.63	1.24 H	354	18.53	25.84
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	#5725.00	52.71 PK	122.2	-69.49	1.00 V	110	42.51	10.20
2	*5785.00	103.24 PK			1.00 V	110	92.71	10.53
3	*5785.00	91.43 AV			1.00 V	110	80.90	10.53
4	11570.00	62.12 PK	74.00	-11.88	1.02 V	56	42.87	19.25
5	11570.00	50.84 AV	54.00	-3.16	1.02 V	56	31.59	19.25
6	#17355.00	57.91 PK	74.00	-16.09	1.05 V	31	32.07	25.84
7	#17355.00	46.58 AV	54.00	-7.42	1.05 V	31	20.74	25.84

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 other emission levels were very low 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 165	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5825.00	105.57 PK			1.26 H	57	94.82	10.75
2	*5825.00	92.60 AV			1.26 H	57	81.85	10.75
3	#5850.00	79.21 PK	122.2	-42.99	1.26 H	57	68.33	10.88
4	#5855.00	77.29 PK	110.8	-33.51	1.26 H	57	66.39	10.90
5	#5875.00	67.04 PK	105.2	-38.16	1.26 H	57	56.03	11.01
6	#5925.00	54.61 PK	68.2	-13.59	1.26 H	57	43.33	11.28
7	11650.00	62.03 PK	74.00	-11.97	1.33 H	67	42.79	19.24
8	11650.00	50.92 AV	54.00	-3.08	1.33 H	67	31.68	19.24
9	#17475.00	56.84 PK	74.00	-17.16	1.08 H	357	30.94	25.90
10	#17475.00	48.02 AV	54.00	-5.98	1.08 H	357	22.12	25.90
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	*5825.00	103.14 PK			1.05 V	330	92.39	10.75
2	*5825.00	90.72 AV			1.05 V	330	79.97	10.75
3	#5850.00	76.50 PK	122.2	-45.70	1.05 V	330	65.62	10.88
4	#5855.00	71.14 PK	110.8	-39.66	1.05 V	330	60.24	10.90
5	#5875.00	64.44 PK	105.2	-40.76	1.05 V	330	53.43	11.01
6	#5925.00	53.81 PK	68.2	-14.39	1.05 V	330	42.53	11.28
7	11650.00	61.13 PK	74.00	-12.87	1.51 V	294	41.89	19.24
8	11650.00	48.83 AV	54.00	-5.17	1.51 V	294	29.59	19.24
9	#17475.00	56.01 PK	74.00	-17.99	1.49 V	350	30.11	25.90
10	#17475.00	47.66 AV	54.00	-6.34	1.49 V	350	21.76	25.90

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 other emission levels were very low 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 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5650.00	58.59 PK	68.2	-9.61	1.28 H	134	48.79	9.80
2	#5700.00	65.53 PK	105.2	-39.67	1.28 H	134	55.46	10.07
3	#5720.00	71.22 PK	110.8	-39.58	1.28 H	134	61.04	10.18
4	#5725.00	73.87 PK	122.2	-48.33	1.28 H	134	63.67	10.20
5	*5755.00	100.71 PK			1.28 H	134	90.34	10.37
6	*5755.00	90.16 AV			1.28 H	134	79.79	10.37
7	11510.00	60.01 PK	74.00	-13.99	1.04 H	100	40.75	19.26
8	11510.00	47.45 AV	54.00	-6.55	1.04 H	100	28.19	19.26
9	#17625.00	56.95 PK	74.00	-17.05	1.41 H	153	31.14	25.81
10	#17625.00	46.02 AV	54.00	-7.98	1.41 H	153	20.21	25.81
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	#5650.00	59.72 PK	68.2	-8.48	2.52 V	162	49.92	9.80
2	#5700.00	67.53 PK	105.2	-37.67	2.52 V	164	57.46	10.07
3	#5720.00	73.52 PK	110.8	-37.28	2.52 V	164	63.34	10.18
4	#5725.00	79.90 PK	122.2	-42.30	2.52 V	164	69.70	10.20
5	*5755.00	103.71 PK			2.62 V	164	93.34	10.37
6	*5755.00	92.33 AV			2.62 V	164	81.96	10.37
7	11510.00	61.47 PK	74.00	-12.53	2.50 V	173	42.21	19.26
8	11510.00	49.55 AV	54.00	-4.45	2.50 V	173	30.29	19.26
9	#17625.00	58.17 PK	74.00	-15.83	1.79 V	206	32.36	25.81
10	#17625.00	46.99 AV	54.00	-7.01	1.79 V	206	21.18	25.81

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 other emission levels were very low 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 159	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5795.00	103.35 PK			2.04 H	260	92.77	10.58
2	*5795.00	92.45 AV			2.04 H	260	81.87	10.58
3	#5850.00	59.68 PK	122.2	-62.52	2.04 H	260	48.80	10.88
4	#5855.00	59.44 PK	110.8	-51.36	2.04 H	260	48.54	10.90
5	#5875.00	58.28 PK	105.2	-46.92	2.04 H	260	47.27	11.01
6	#5925.00	58.55 PK	68.2	-9.65	2.04 H	260	47.27	11.28
7	11590.00	60.51 PK	74.00	-13.49	1.85 H	257	41.26	19.25
8	11590.00	49.14 AV	54.00	-4.86	1.85 H	257	29.89	19.25
9	#17385.00	56.10 PK	74.00	-17.90	2.41 H	205	30.25	25.85
10	#17385.00	46.00 AV	54.00	-8.00	2.41 H	205	20.15	25.85

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	*5795.00	101.10 PK			1.82 V	142	90.52	10.58
2	*5795.00	90.14 AV			1.82 V	142	79.56	10.58
3	#5850.00	57.12 PK	122.2	-65.08	1.82 V	142	46.24	10.88
4	#5855.00	60.14 PK	110.8	-50.66	1.82 V	142	49.24	10.90
5	#5875.00	60.42 PK	105.2	-44.78	1.82 V	142	49.41	11.01
6	#5925.00	58.01 PK	68.2	-10.19	1.82 V	142	46.73	11.28
7	11590.00	58.14 PK	74.00	-15.86	1.68 V	201	38.89	19.25
8	11590.00	48.28 AV	54.00	-5.72	1.68 V	201	29.03	19.25
9	#17385.00	56.00 PK	74.00	-18.00	1.68 V	201	30.15	25.85
10	#17385.00	46.71 AV	54.00	-7.29	2.41 V	205	20.86	25.85

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 other emission levels were very low 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 155	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	#5650.00	58.50 PK	68.2	-9.70	1.53 H	144	48.60	9.80
2	#5700.00	69.47 PK	105.2	-35.73	1.53 H	144	59.38	10.07
3	#5720.00	74.17 PK	110.8	-36.63	1.53 H	144	63.99	10.18
4	#5725.00	72.78 PK	122.2	-49.42	1.53 H	144	62.58	10.20
5	*5775.00	100.74 PK			1.53 H	144	90.26	10.48
6	*5775.00	89.99 AV			1.53 H	144	79.51	10.48
7	#5850.00	68.47 PK	122.2	-53.73	1.53 H	144	57.59	10.88
8	#5855.00	68.28 PK	110.8	-42.52	1.53 H	144	57.38	10.90
9	#5875.00	63.28 PK	105.2	-41.92	1.53 H	144	52.27	11.01
10	#5925.00	56.23 PK	68.2	-11.97	1.53 H	144	44.95	11.28
11	11550.00	58.01 PK	74.00	-15.99	1.93 H	227	38.76	19.25
12	11550.00	46.15 AV	54.00	-7.85	1.93 H	227	26.90	19.25
13	#17325.00	57.66 PK	74.00	-16.34	2.04 H	181	31.84	25.82
14	#17325.00	46.53 AV	54.00	-7.47	2.04 H	181	20.71	25.82
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	#5650.00	56.74 PK	68.2	-11.46	1.05 V	47	46.94	9.80
2	#5700.00	67.84 PK	105.2	-37.36	1.05 V	47	57.77	10.07
3	#5720.00	72.05 PK	110.8	-38.75	1.05 V	47	61.87	10.18
4	#5725.00	72.14 PK	122.2	-50.06	1.05 V	47	61.94	10.20
5	*5775.00	98.17 PK			1.05 V	47	87.69	10.48
6	*5775.00	86.01 AV			1.05 V	47	75.53	10.48
7	#5850.00	67.61 PK	122.2	-54.59	1.05 V	47	56.73	10.88
8	#5855.00	66.57 PK	110.8	-59.14	1.05 V	47	55.67	10.90
9	#5875.00	60.15 PK	105.2	-45.05	1.05 V	47	49.14	11.01
10	#5925.00	55.84 PK	68.2	-12.36	1.05 V	47	44.56	11.28
11	11550.00	56.93 PK	74.0	-17.07	1.00 V	124	37.68	19.25
12	11550.00	46.71 AV	54.0	-7.29	1.00 V	124	27.46	19.25
13	#17325.00	56.51 PK	74.0	-17.49	1.02 V	154	30.69	25.82
14	#17325.00	46.02 AV	54.0	-7.98	1.02 V	154	20.20	25.82

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 other emission levels were very low 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 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101588	Jan. 22,16	Jan. 21,17
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 04,16	Mar. 03,17
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,16	Apr. 04,17
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 08,16	Jan. 07,17
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

NOTE:

1. The test was performed in shielded room 553.
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.

3.2.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

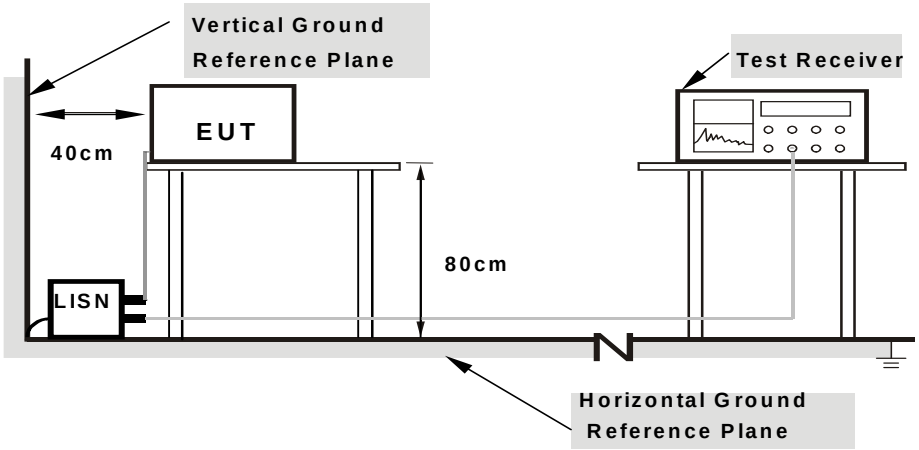
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 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

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

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.6

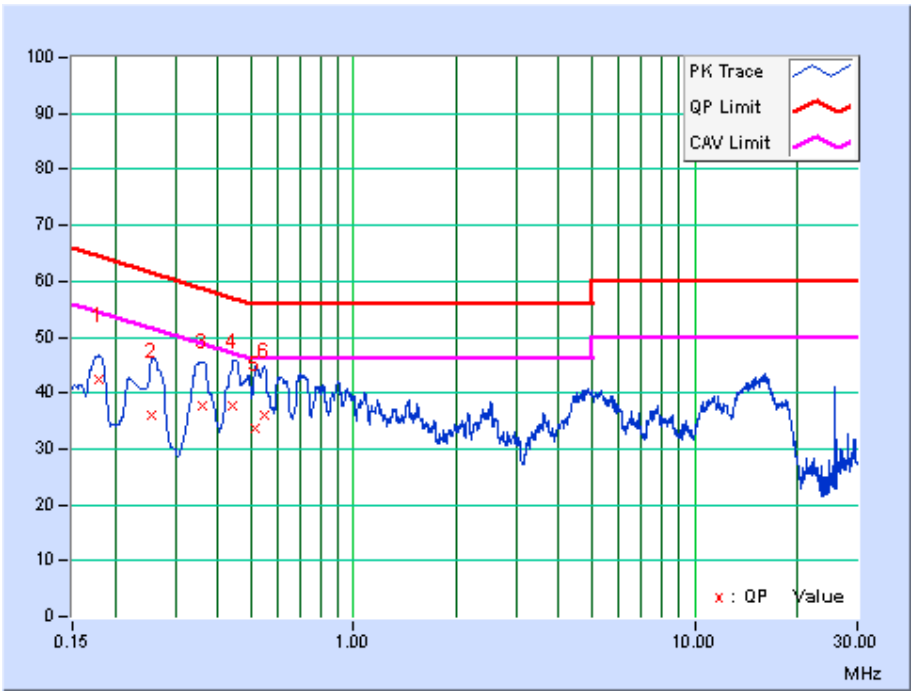
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11a

PHASE	Line	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.48075	10.14	31.01	20.42	41.15	30.56	56.33	46.33	-15.18	-15.77
2	0.57003	10.14	28.11	22.25	38.25	32.39	56.00	46.00	-17.75	-13.61
3	**0.85425**	**10.14**	**28.88**	**25.18**	**39.02**	**35.32**	**56.00**	**46.00**	**-16.98**	**-10.68**
4	1.71600	10.15	27.87	22.69	38.02	32.84	56.00	46.00	-17.98	-13.16
5	1.80240	10.15	28.92	23.73	39.07	33.88	56.00	46.00	-16.93	-12.12
6	2.52046	10.15	24.86	18.09	35.01	28.24	56.00	46.00	-20.99	-17.76

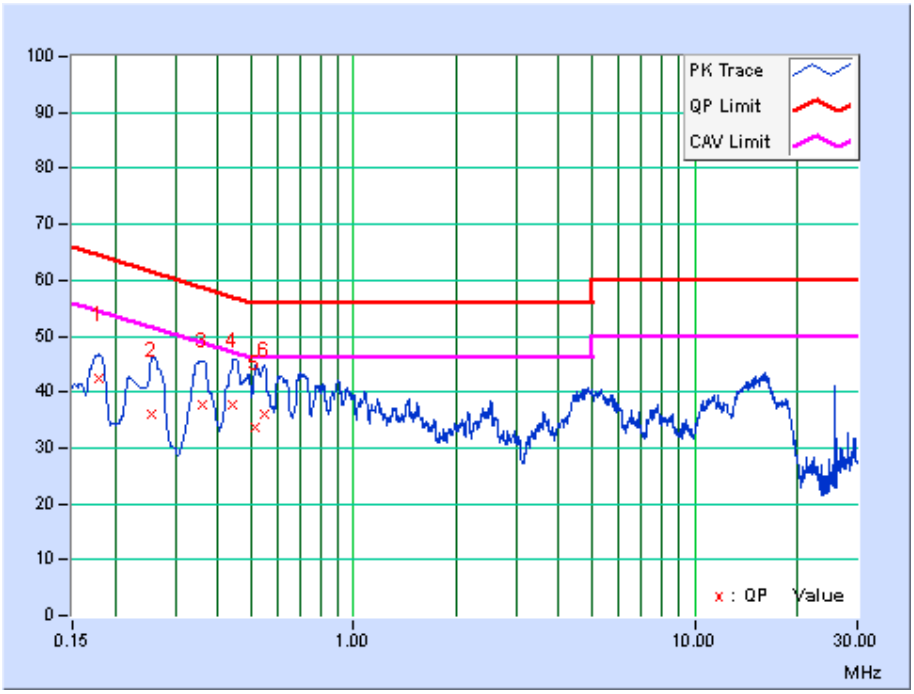
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



PHASE	Neutral	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17933	9.84	32.72	24.32	42.56	34.16	64.52	54.52	-21.96	-20.36
2	0.25545	9.84	26.07	9.92	35.91	19.76	61.58	51.58	-25.67	-31.82
3	0.36006	9.84	27.71	17.07	37.55	26.91	58.73	48.73	-21.18	-21.82
4	0.44357	9.85	27.91	14.15	37.76	24.00	56.99	46.99	-19.24	-23.00
5	0.51425	9.84	23.70	7.21	33.54	17.05	56.00	46.00	-22.46	-28.95
6	0.54501	9.84	26.03	22.35	35.87	32.19	56.00	46.00	-20.13	-13.81

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak an d average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



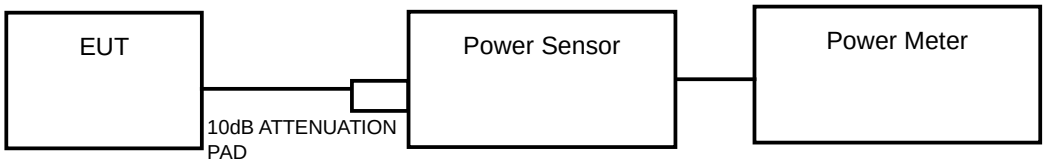
3.3 TRANSMIT POWER MEASUREMENT

3.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

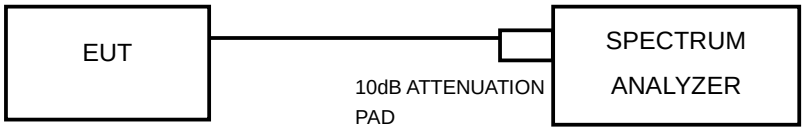
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client 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.

3.3.2 TEST SETUP



FOR 6/26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,16	May 03,17
Power Sensor	Keysight	U2021XA	MY55060018	May 04,16	May 03,17
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04,16	Nov. 03,17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04,16	Nov. 03,17
Agile Signal Generator	Agilent	8645A	Agilent	Aug.08, 16	Aug.07, 17
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Apr. 22, 16	Apr. 21, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug.08, 16	Aug.07, 17

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.

3.3.4 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.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

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

3.3.7 TEST RESULTS

OUTPUT POWER:

802.11a

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	21.14	130.017	24.00	PASS
40	5200	22.08	161.436	24.00	PASS
48	5240	19.34	85.901	24.00	PASS
52	5260	19.38	86.696	24.00	PASS
60	5300	22.57	180.717	24.00	PASS
64	5320	21.67	146.893	24.00	PASS
100	5500	20.45	110.917	24.00	PASS
112	5560	21.35	136.458	24.00	PASS
140	5700	19.02	79.799	24.00	PASS
149	5745	22.26	168.267	30.00	PASS
157	5785	22.13	163.305	30.00	PASS
165	5825	22.05	160.325	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(36.69)=26.65dBm > 24dBm

802.11n (20MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	20.61	20.32	115.080	107.647	222.727	23.48	24.00	PASS
40	5200	20.76	20.46	119.124	111.173	**230.297**	**23.62**	24.00	PASS
48	5240	19.24	19.46	83.946	88.308	172.254	22.36	24.00	PASS
52	5260	19.58	19.83	90.782	96.161	186.943	22.72	24.00	PASS
60	5300	20.80	20.78	120.226	119.674	**239.900**	**23.80**	24.00	PASS
64	5320	20.84	20.72	121.339	118.032	239.371	23.79	24.00	PASS
100	5500	20.37	20.63	108.893	115.611	224.504	23.51	24.00	PASS
112	5560	20.83	21.06	121.060	127.644	**248.704**	**23.96**	24.00	PASS
140	5700	19.04	19.26	80.168	84.333	164.501	22.16	24.00	PASS
149	5745	21.16	21.22	130.617	132.434	**263.051**	**24.20**	30.00	PASS
157	5785	20.76	20.64	119.124	115.878	235.002	23.71	30.00	PASS
165	5825	21.07	20.89	127.938	122.744	250.682	23.99	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(36.69)=26.65dBm > 24dBm

802.11n (40MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	19.15	19.58	82.2243	90.7821	173.006	22.38	24.00	PASS
46	5230	19.94	19.78	98.6279	95.0605	193.688	22.87	24.00	PASS
54	5270	19.34	19.21	85.9014	83.3681	169.269	22.29	24.00	PASS
62	5310	20.20	20.16	104.713	103.753	208.466	23.19	24.00	PASS
102	5510	19.36	19.22	86.2979	83.5603	169.858	22.30	24.00	PASS
110	5550	20.68	20.64	116.95	115.878	232.828	23.67	24.00	PASS
134	5670	20.79	20.81	119.95	120.504	240.454	23.81	24.00	PASS
151	5755	21.06	21.15	127.644	130.317	257.961	24.12	30.00	PASS
159	5795	20.97	21.11	125.026	129.122	254.148	24.05	30.00	PASS

802.11ac (80MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	19.60	19.69	91.201	93.111	184.312	22.66	24.00	PASS
58	5290	19.96	19.70	99.083	93.325	192.409	22.84	24.00	PASS
106	5530	18.43	18.48	69.663	70.469	140.132	21.47	24.00	PASS
155	5775	19.45	19.51	88.105	89.331	177.435	22.49	30.00	PASS

26dB BANDWIDTH:

802.11a

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	42.91	PASS
40	5200	45.93	PASS
48	5240	34.74	PASS
52	5260	36.69	PASS
60	5300	50.88	PASS
64	5320	45.61	PASS
100	5500	40.78	PASS
112	5560	45.90	PASS
140	5700	39.00	PASS

802.11n (20MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
36	5180	45.76	42.59	PASS
40	5200	48.53	46.60	PASS
48	5240	37.93	37.30	PASS
52	5260	39.89	38.74	PASS
60	5300	49.73	49.36	PASS
64	5320	49.70	48.11	PASS
100	5500	45.90	45.73	PASS
112	5560	48.63	48.01	PASS
140	5700	40.17	42.40	PASS

802.11n (40MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
38	5190	75.48	77.19	PASS
46	5230	87.97	84.41	PASS
54	5270	75.44	76.02	PASS
62	5310	92.61	91.30	PASS
102	5510	88.12	88.77	PASS
110	5550	97.05	96.01	PASS
134	5670	99.89	99.85	PASS

802.11ac (80MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
42	5210	144.77	143.42	PASS
58	5290	155.96	154.21	PASS
106	5530	151.18	151.02	PASS

6dB BANDWIDTH For 5745-5825MHz

802.11a

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	**5745**	16.55	PASS
157	**5785**	16.56	PASS
165	**5825**	16.56	PASS

802.11n (20M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
149	**5745**	17.80	17.80	PASS
157	**5785**	17.80	17.83	PASS
165	**5825**	17.83	17.81	PASS

802.11n (40M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
151	**5755**	36.59	36.62	PASS
159	**5795**	36.62	36.60	PASS

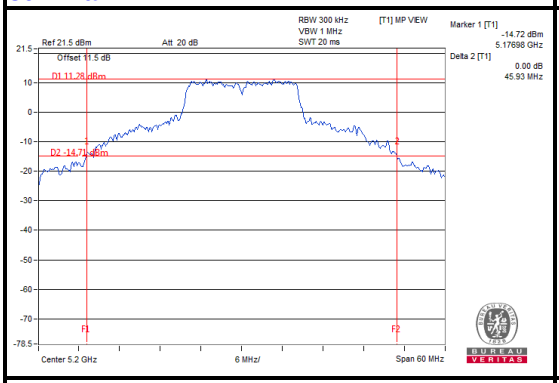
802.11ac (80MHz)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
155	**5775**	76.30	75.94	PASS

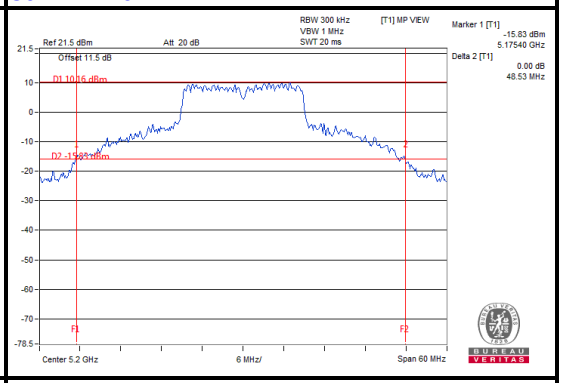
26dB bandwidth Test Plot
For 5180-5240MHz worst plot
Chain 0

SPECTRUM PLOT OF WORST VALUE

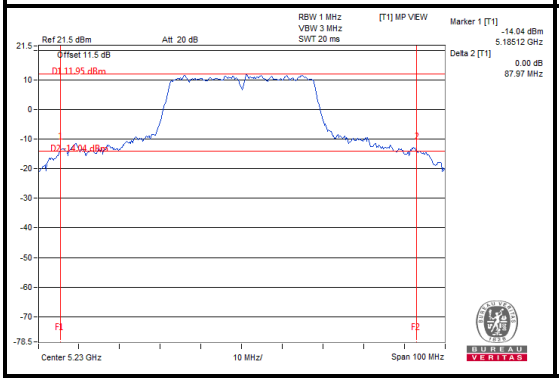
802.11a



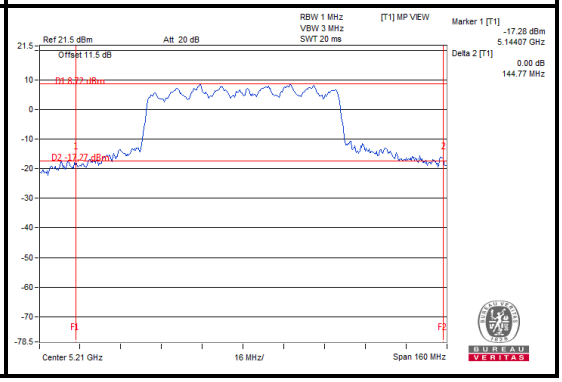
802.11n 20MHz



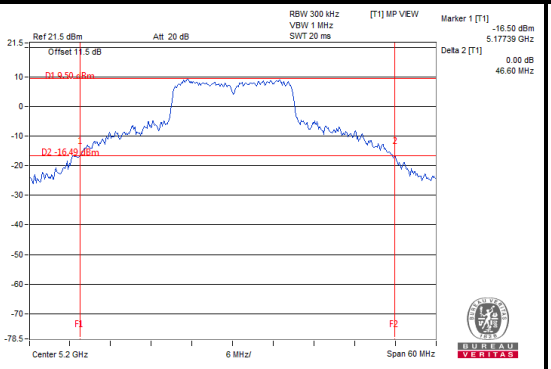
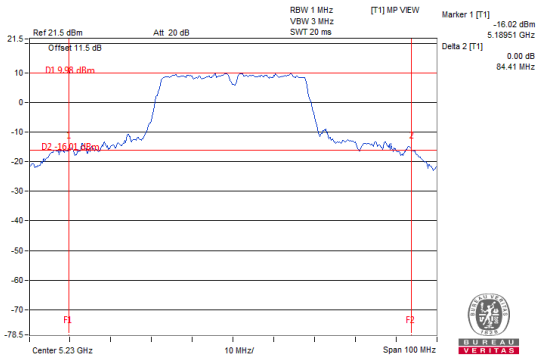
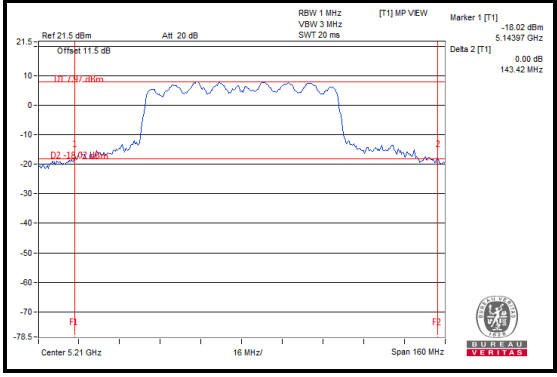
802.11n 40MHz



802.11ac 80MHz

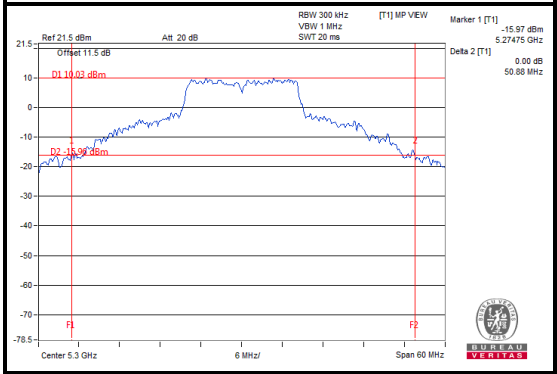
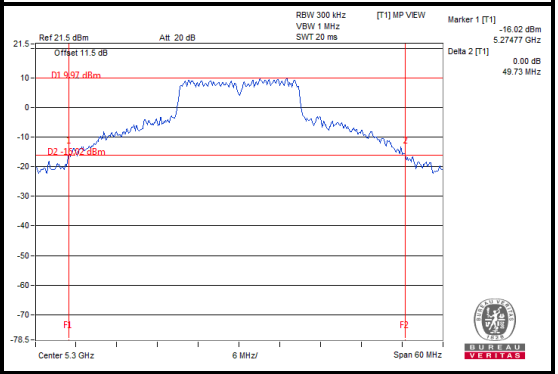
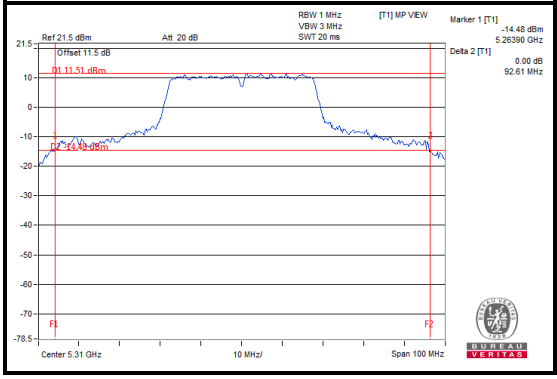
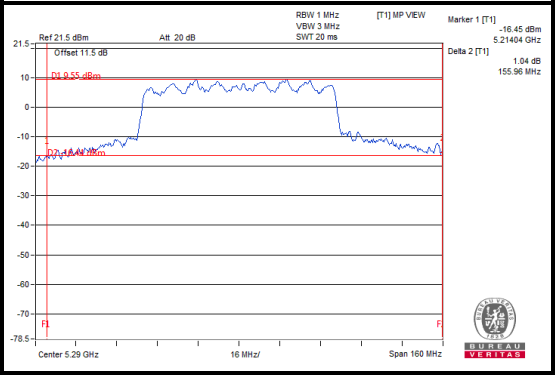


Chain 1

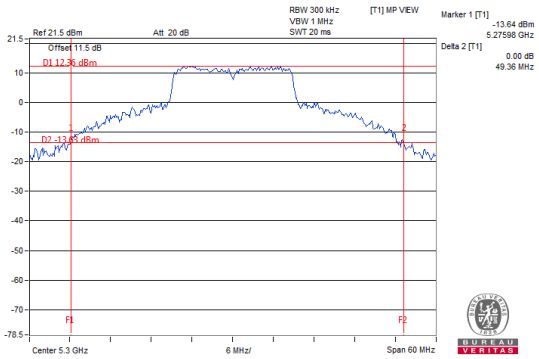
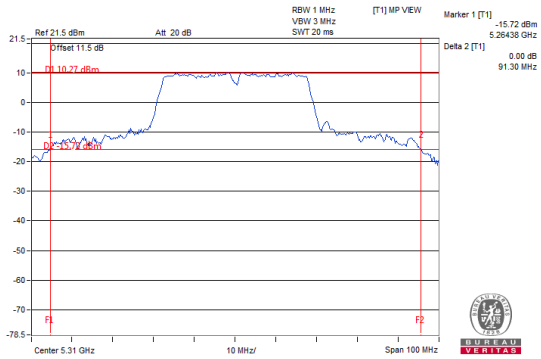
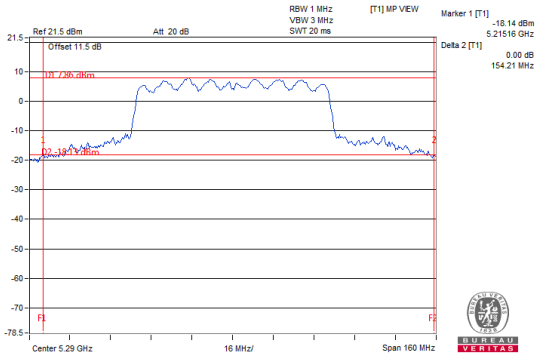
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

For 5260-5320MHz

Chain 0

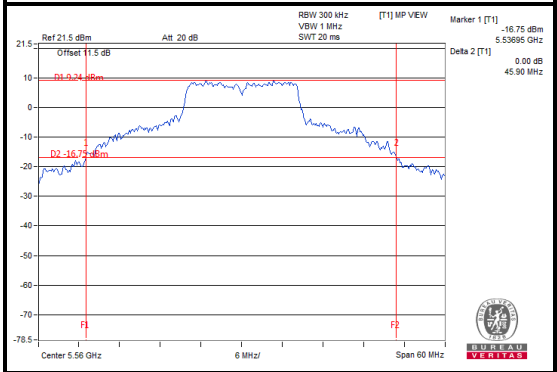
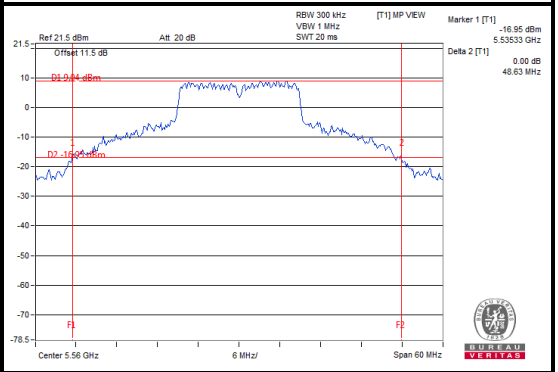
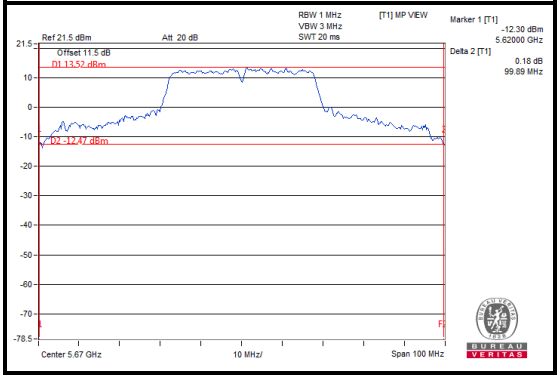
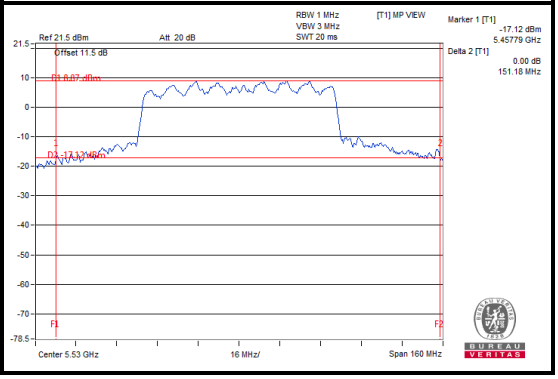
SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

Chain 1

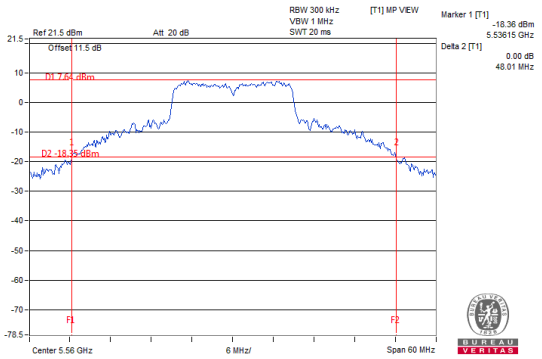
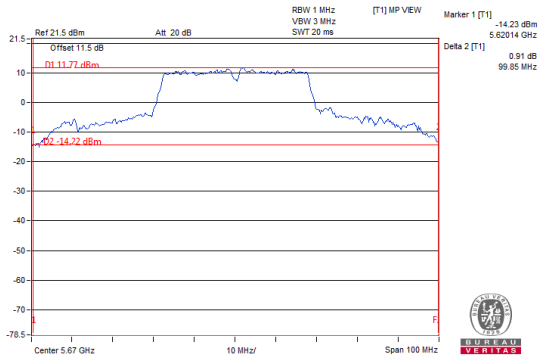
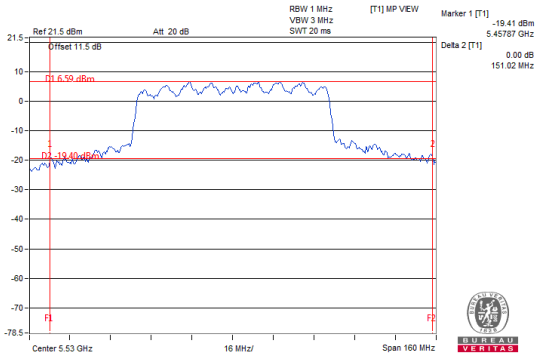
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

For 5500-5700MHz

Chain 0

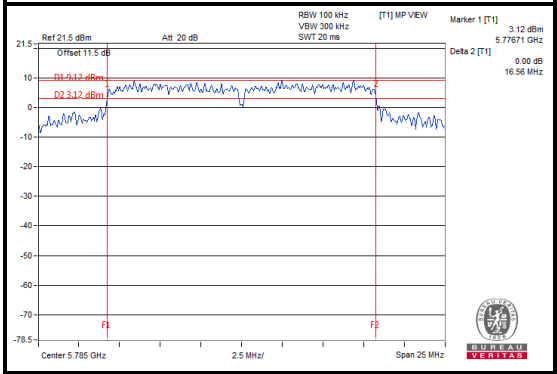
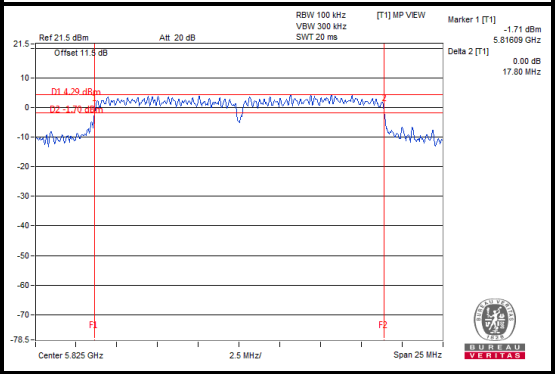
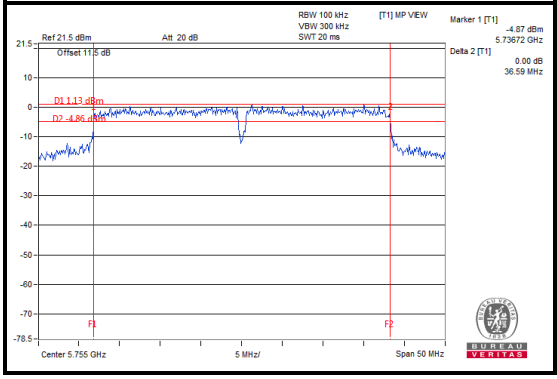
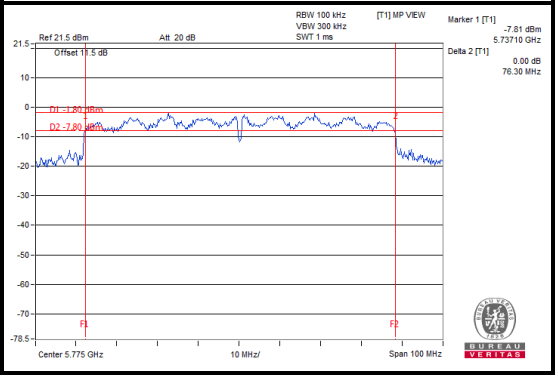
SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

Chain 1

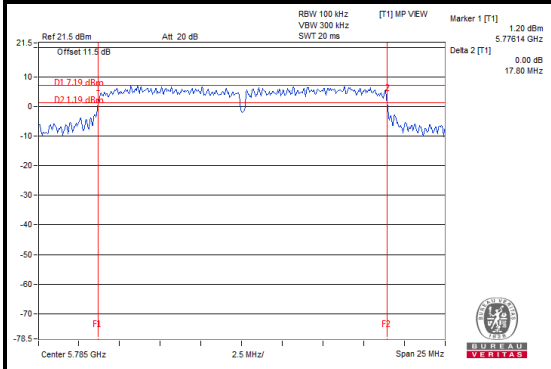
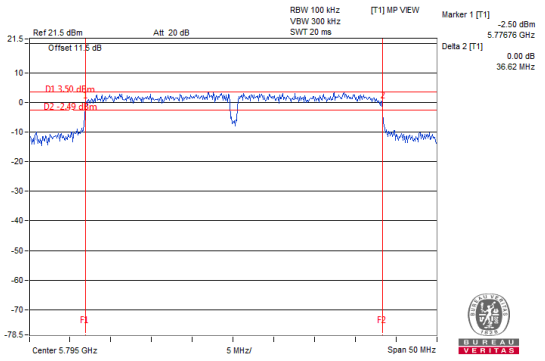
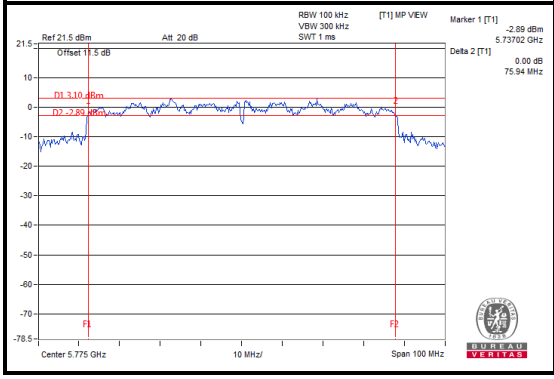
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

6dB BANDWIDTH For 5745-5825MHz

Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

Chain 1

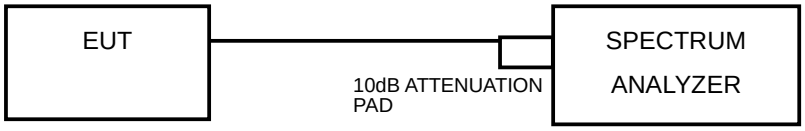
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

3.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST 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)

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.3.6

3.4.7 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)	Total power density (mW)	MAX. Limit (dBm)	PASS / FAIL
36	5180	8.21	6.622	11.00	PASS
40	5200	9.10	8.128	11.00	PASS
48	5240	7.47	5.585	11.00	PASS
52	5260	7.34	5.420	11.00	PASS
60	5300	9.52	8.954	11.00	PASS
64	5320	8.66	7.345	11.00	PASS
100	5500	7.72	5.916	11.00	PASS
116	5580	8.84	7.656	11.00	PASS
140	5700	7.99	6.295	11.00	PASS
Channel Number	**Frequency (MHz)**	**RF Power Level in 300kHz BW (dBm)**	**RF Power Level in 500kHz BW (dBm)**	**MAX. Limit (dBm/500k)**	**PASS / FAIL**
149	5745	0.84	3.06	30.00	PASS
157	5785	0.66	2.88	30.00	PASS
165	5825	0.61	2.83	30.00	PASS

802.11n (20MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		Total power density (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	7.82	7.77	6.053	5.984	12.038	10.81	11.00	PASS
40	5200	7.78	7.64	5.998	5.808	11.806	10.72	11.00	PASS
48	5240	7.47	7.30	5.585	5.370	10.955	10.40	11.00	PASS
52	5260	7.91	7.49	6.180	5.610	11.791	10.72	11.00	PASS
60	5300	7.82	7.87	6.053	6.124	12.177	10.86	11.00	PASS
64	5320	7.92	7.82	6.194	6.053	12.248	10.88	11.00	PASS
100	5500	7.64	6.86	5.808	4.853	10.661	10.28	11.00	PASS
112	5560	7.75	7.66	5.957	5.834	11.791	10.72	11.00	PASS
140	5700	7.56	7.68	5.702	5.861	11.563	10.63	11.00	PASS

Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)		RF Power Level in 500kHz BW (dBm)		Total PSD (dBm/500kHz)		MAX. Limit (dBm/ 500k)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
149	5745	-2.37	-2.42	-0.15	-0.20	1.9204	2.83	30.00	PASS
157	5785	-2.92	-2.83	-0.70	-0.61	1.7195	2.35	30.00	PASS
165	5825	-3.32	-3.42	-1.10	-1.20	1.5343	1.86	30.00	PASS

802.11n (40MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		Total power density (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	2.63	2.95	1.832	1.972	3.805	5.78	11.00	PASS
46	5230	3.55	3.59	2.265	2.286	4.550	6.84	11.00	PASS
54	5270	2.60	2.68	1.820	1.854	3.673	5.53	11.00	PASS
62	5310	3.43	3.55	2.203	2.265	4.468	6.73	11.00	PASS
102	5510	2.75	2.30	1.884	1.698	3.582	5.28	11.00	PASS
110	5550	4.12	4.12	2.582	2.582	5.165	7.75	11.00	PASS
134	5670	4.44	4.61	2.780	2.891	5.670	8.56	11.00	PASS

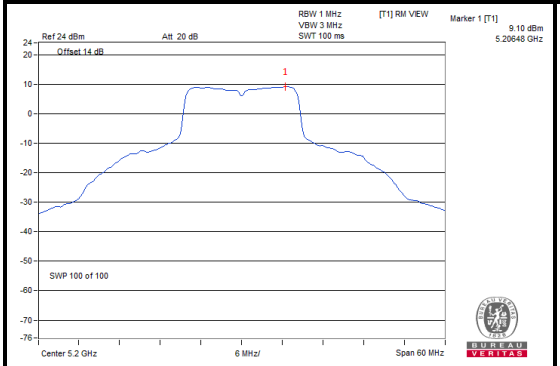
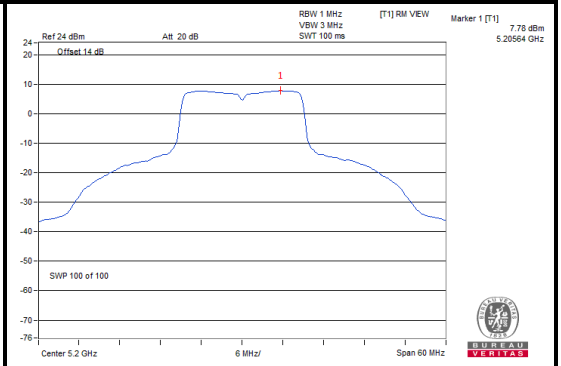
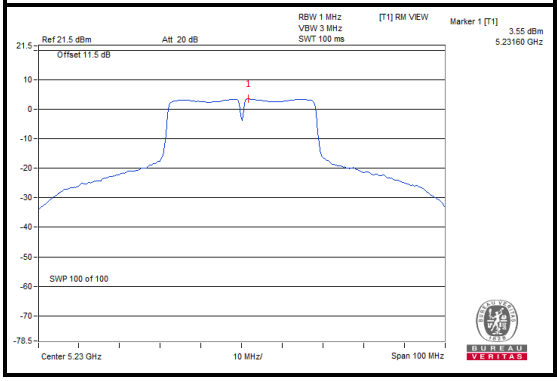
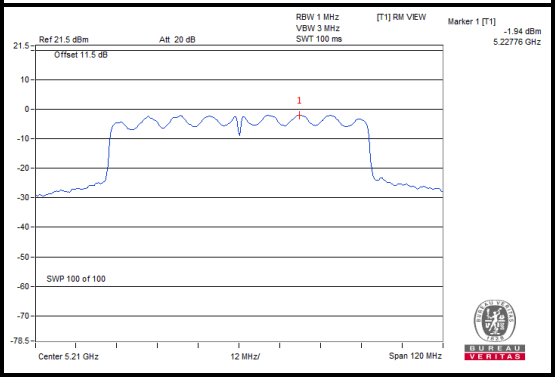
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)		RF Power Level in 500kHz BW (dBm)		Total PSD (dBm/500kHz)		MAX. Limit (dBm/ 500k)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
151	5755	-5.56	-5.84	-3.62	-3.62	0.8687	-0.61	30.00	PASS
159	5795	-6.46	-6.28	-4.06	-4.06	0.7850	-1.05	30.00	PASS

802.11ac (80MHz)

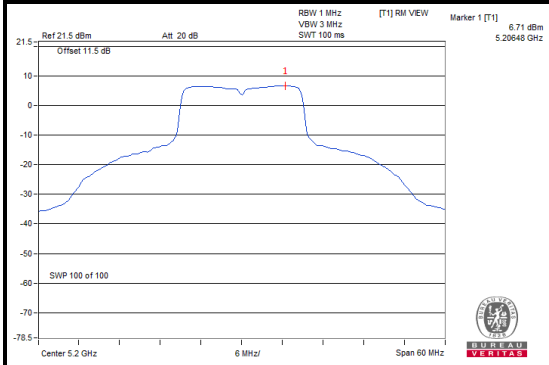
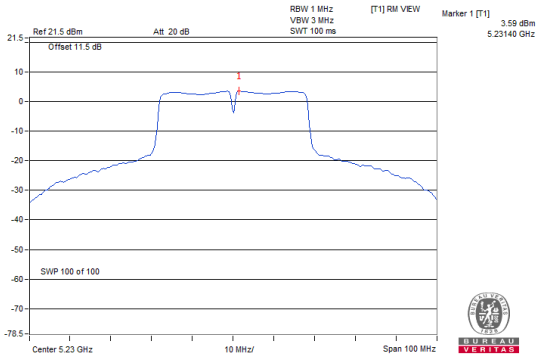
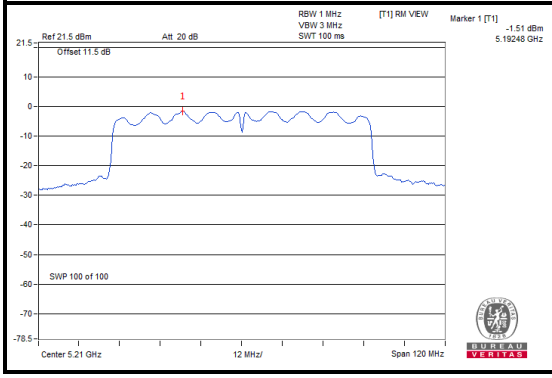
Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		Total power density (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	-1.94	-1.51	0.6397	0.7063	1.3461	1.29	11.00	PASS
58	5290	-1.39	-1.74	0.7261	0.6699	1.3960	1.45	11.00	PASS
106	5530	-1.74	-3.71	0.6699	0.4256	1.0955	0.40	11.00	PASS

Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)		RF Power Level in 500kHz BW (dBm)		Total PSD (dBm/500kHz)		MAX. Limit (dBm/ 500k)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
155	5775	-10.55	-6.36	-8.33	-4.41	0.3781	-4.22	30.00	PASS

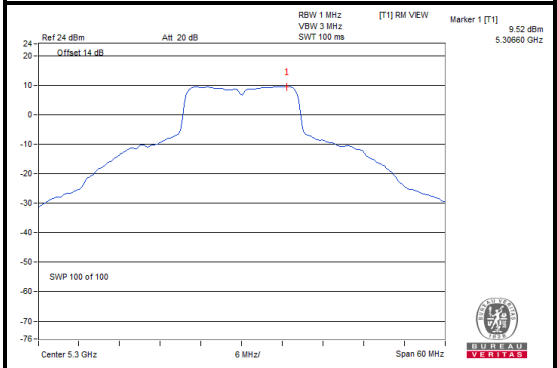
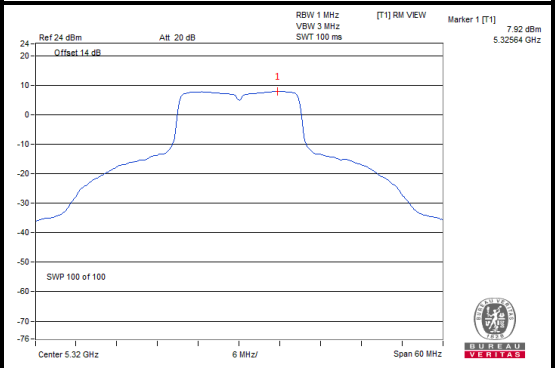
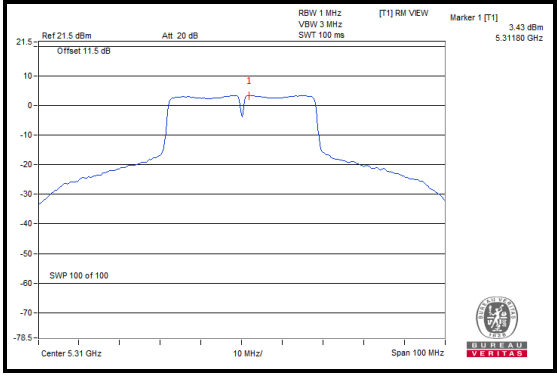
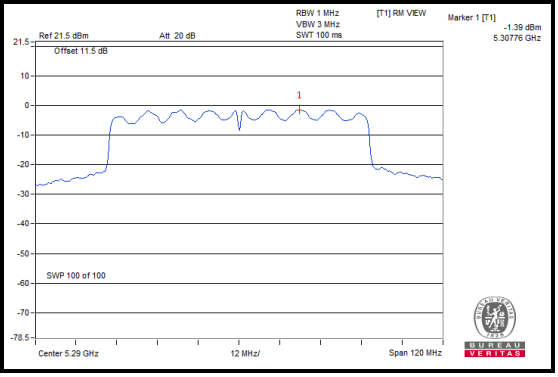
PSD Test Plot
BAND 1
5180-5240MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

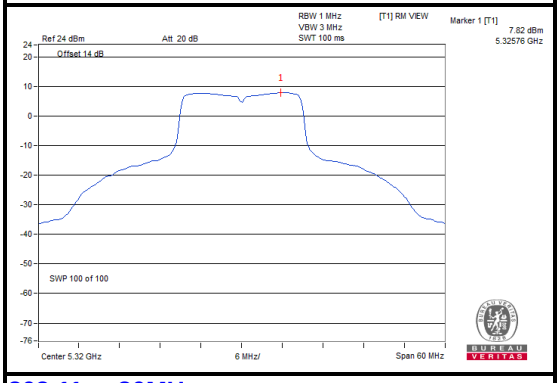
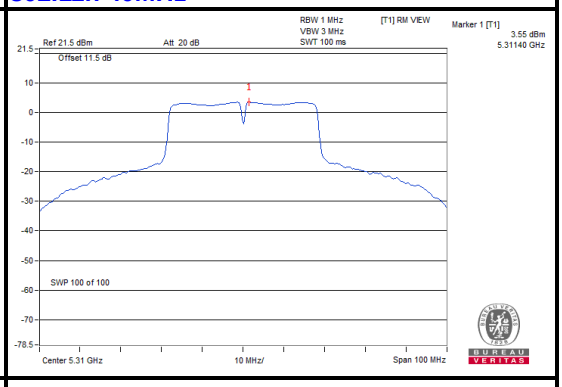
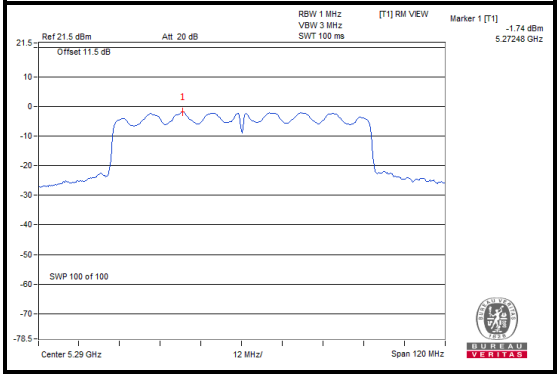
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

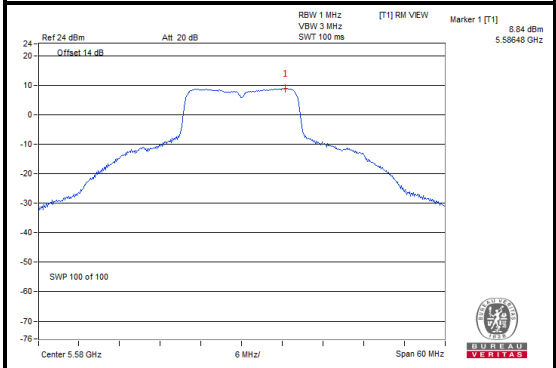
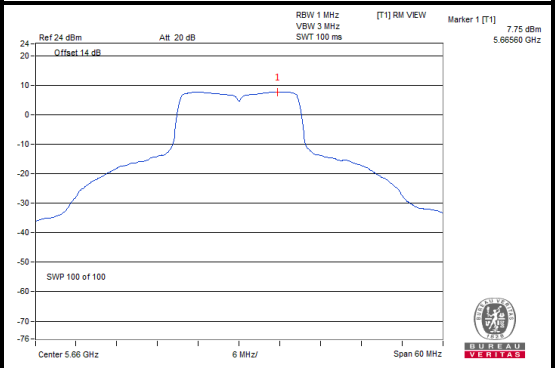
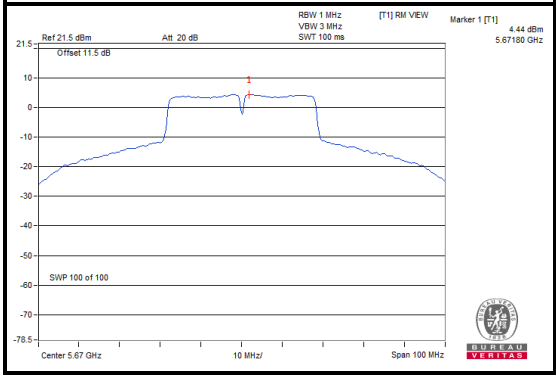
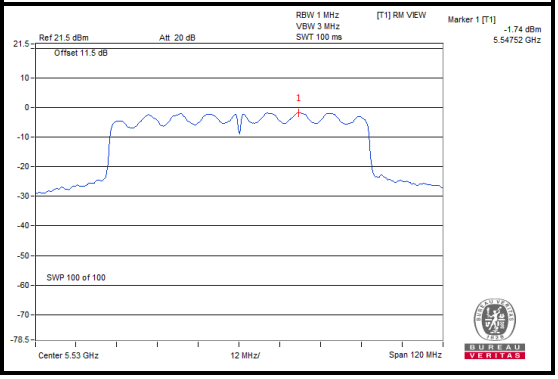
BAND 2
5260-5320MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

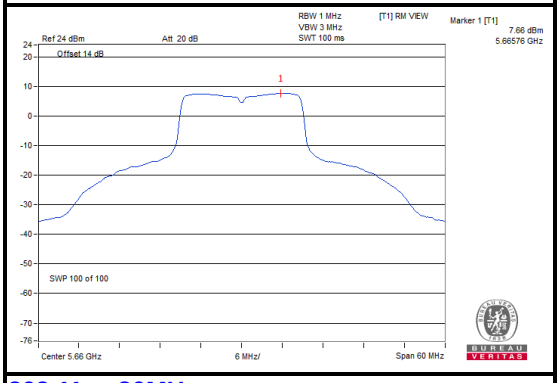
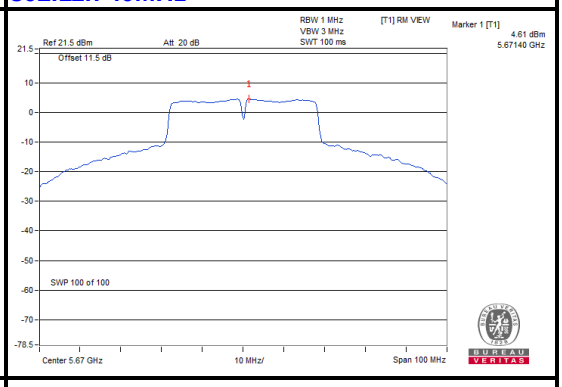
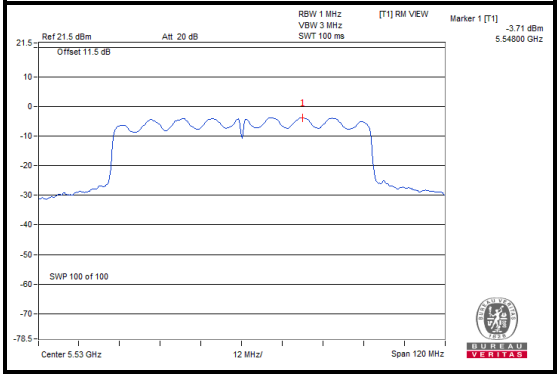
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

BAND 3
5500-5700MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

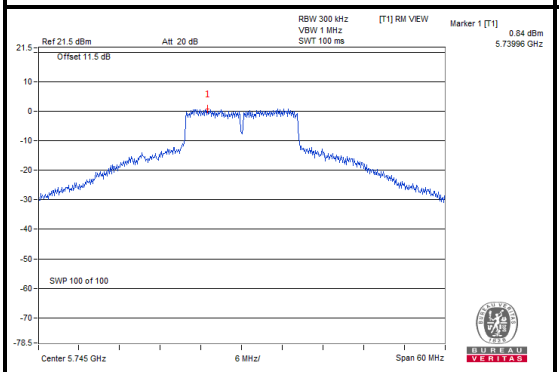
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

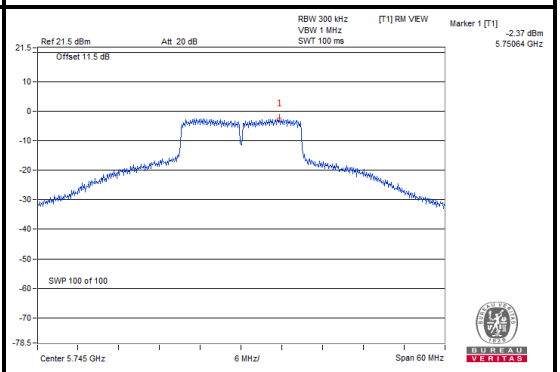
BAND4
5745-5825MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE

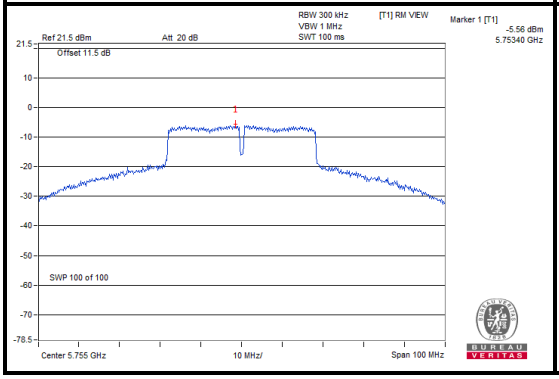
802.11a



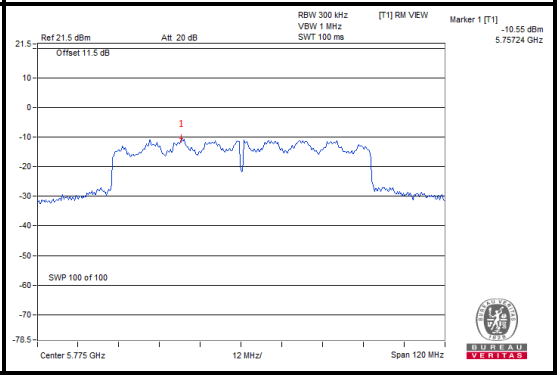
802.11n 20MHz



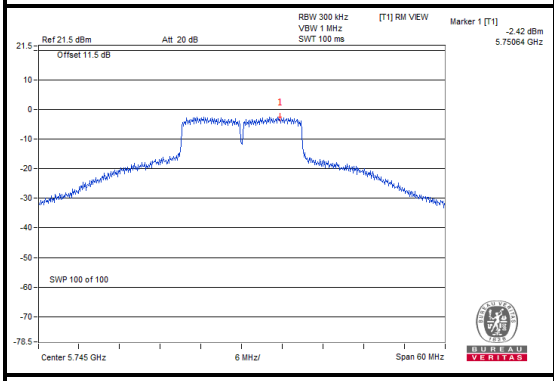
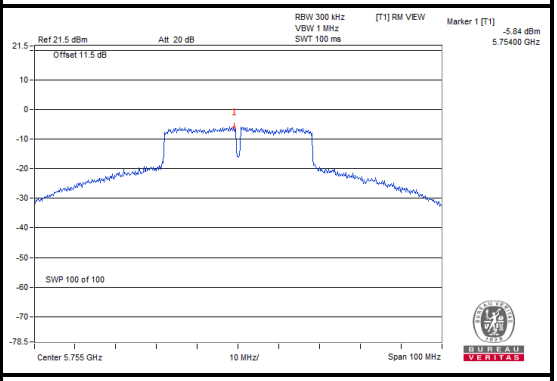
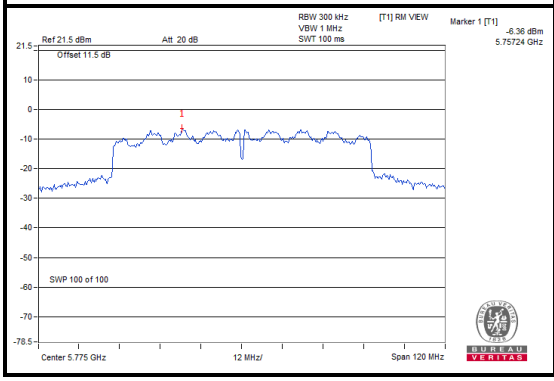
802.11n 40MHz



802.11ac 80MHz



Chain 1

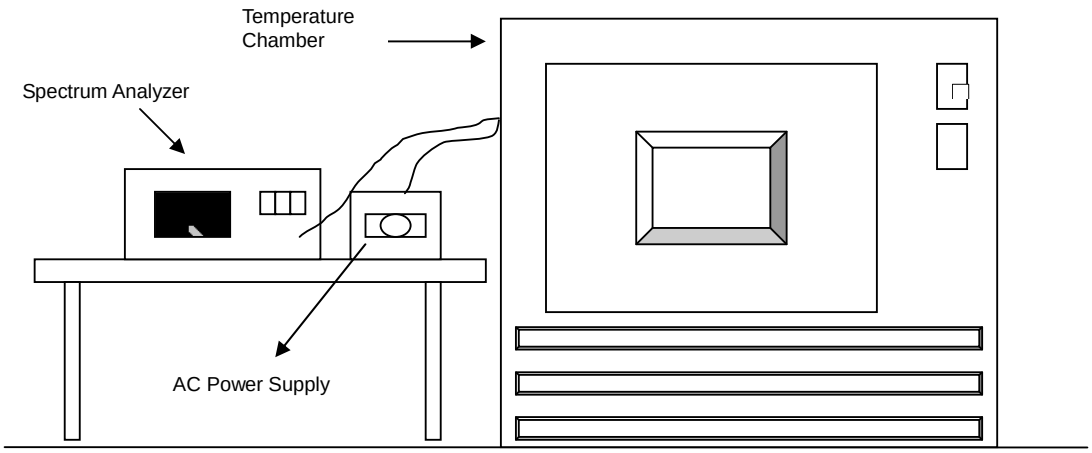
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

3.5 FREQUENCY STABILITY

3.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

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

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 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.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

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

3.5.7 TEST RESULTS

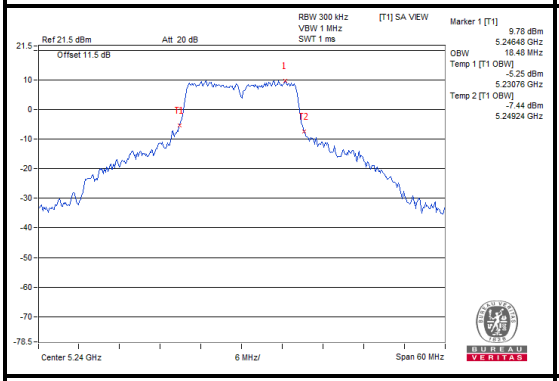
FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	120	5179.9766	-0.00045	5179.9735	-0.00051	5179.9754	-0.00047	5179.9744	-0.00049
40	120	5179.9918	-0.00016	5179.9935	-0.00013	5179.9938	-0.00012	5179.9919	-0.00016
30	120	5179.9857	-0.00028	5179.9836	-0.00032	5179.9849	-0.00029	5179.9866	-0.00026
20	120	5179.975	-0.00048	5179.9765	-0.00045	5179.9781	-0.00042	5179.9777	-0.00043
10	120	5179.9779	-0.00043	5179.9769	-0.00045	5179.9807	-0.00037	5179.9809	-0.00037
0	120	5179.9763	-0.00046	5179.9741	-0.00050	5179.9776	-0.00043	5179.9755	-0.00047
-10	120	5180.0196	0.00038	5180.0178	0.00034	5180.0203	0.00039	5180.0171	0.00033
-20	120	5180.0124	0.00024	5180.0129	0.00025	5180.0107	0.00021	5180.0112	0.00022
-30	120	5179.9983	-0.00003	5179.9998	0.00000	5180.0011	0.00002	5179.9988	-0.00002

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	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	138	5179.9751	-0.00048	5179.9761	-0.00046	5179.9774	-0.00044	5179.9772	-0.00044
	120	5179.975	-0.00048	5179.9765	-0.00045	5179.9781	-0.00042	5179.9777	-0.00043
	102	5179.9758	-0.00047	5179.9762	-0.00046	5179.979	-0.00041	5179.9772	-0.00044

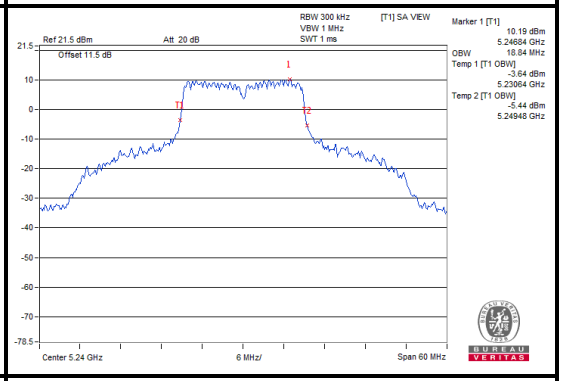
Band 1
5180-5240MHz
99% Occupied Bandwidth Without over DFS Band

SPECTRUM PLOT OF WORST VALUE

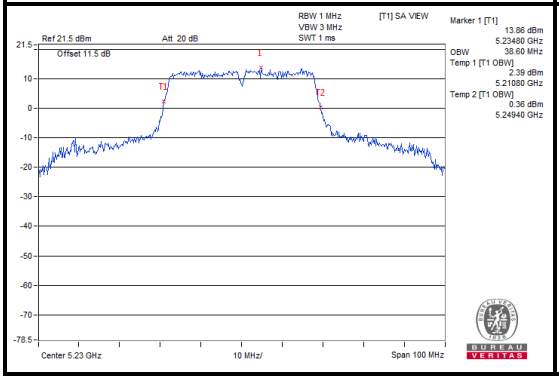
802.11a 5240MHz



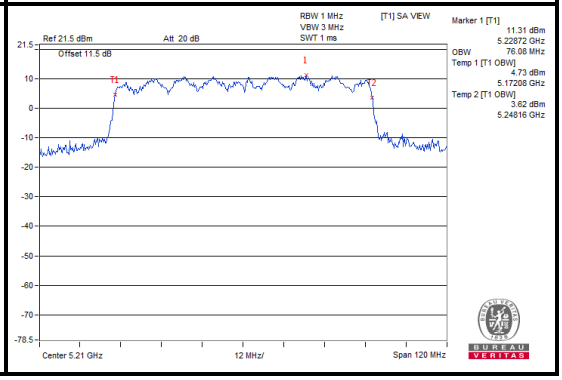
802.11n 20MHz 5240MHz



802.11n 40MHz 5230MHz



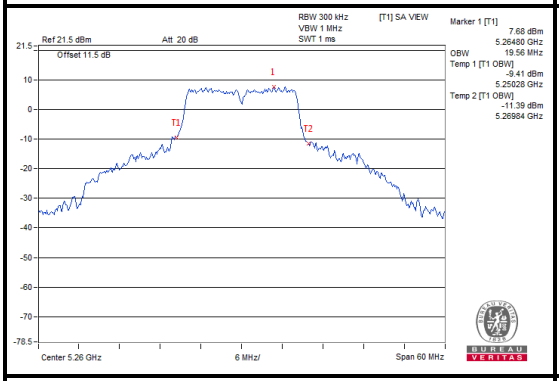
802.11ac 80MHz 5210MHz



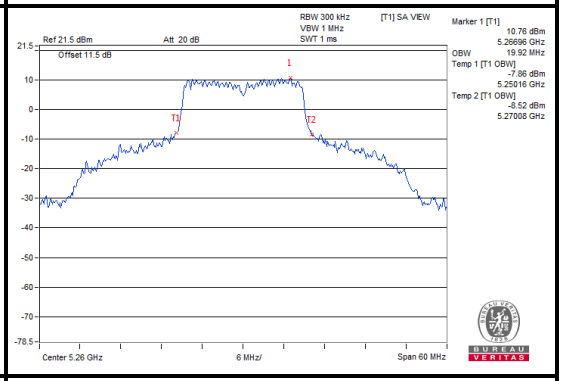
Band 2
5260-5320MHz
99% Occupied Bandwidth Without over Band 1

SPECTRUM PLOT OF WORST VALUE

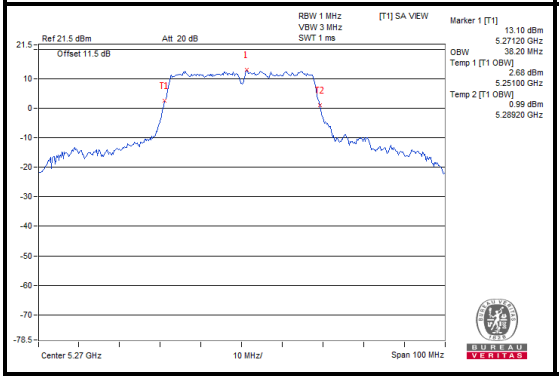
802.11a 5260MHz



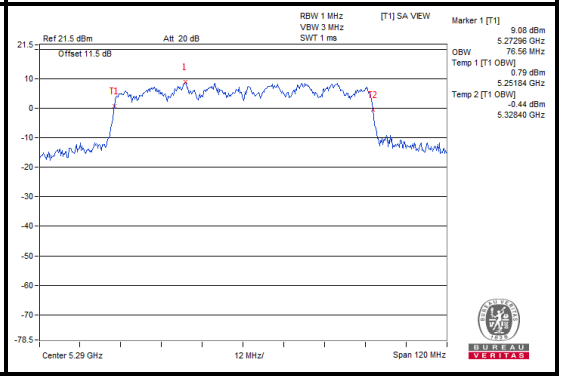
802.11n 20MHz 5260MHz



802.11n 40MHz 5270MHz



802.11ac 80MHz 5290MHz



4. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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.

---END---