

FCC Test Report

Report No.: RF150910D02-1

FCC ID: 2ACCJB029

Test Model: P17AA

Received Date: Sep. 10, 2015

Test Date: Sep. 10 ~ Oct. 15, 2015

Issued Date: Oct. 20, 2015

Applicant: TCL communication Ltd

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(R.O.C.)



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Release Control Record

Issue No.	Description	Date Issued
RF150910D02-1	Original release.	Oct. 20, 2015

1 Certificate of Conformity

Product: BigPad

Brand: TCL, ALCATEL onetouch

Test Model: P17AA

Sample Status: Engineering sample

Applicant: TCL communication Ltd

Test Date: Sep. 10 ~ Oct. 15, 2015

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Jessica Cheng , **Date:** Oct. 20, 2015
Jessica Cheng / Senior Specialist

Approved by : Rex Lai , **Date:** Oct. 20, 2015
Rex Lai / Assistant Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (SECTION 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -12.81dB at 24.02344MHz.
15.407(b)(1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 5470.00MHz.
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(e)	6dB bandwidth	PASS	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

2.1 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	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	3.43 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1000MHz	4.00 dB
Radiated Emissions above 1 GHz	Above 1GHz	3.36 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	BigPad
Brand	TCL, ALCATEL onetouch
Test Model	P17AA
Status of EUT	Engineering sample
Power Supply Rating	19Vdc from adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK 256QAM for 11ac mode only.
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6Mbps 802.11n: up to 150.0Mbps 802.11ac: up to 200Mbps
Operating Frequency	5180 ~ 5240MHz 5260 ~ 5320MHz 5500 ~ 5700MHz 5745 ~ 5825MHz
Number of Channel	5180 ~ 5240MHz 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5260 ~ 5320MHz 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5500 ~ 5700MHz 11 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 5 for 802.11n (HT40), 802.11ac (VHT40) 2 for 802.11ac (VHT80) 5745 ~ 5825MHz 5 for 802.11a, 802.11n (HT20) , 802.11ac (VHT20) 2 for 802.11n (HT40) , 802.11ac (VHT40) 1 for 802.11ac (VHT80)
Output Power	5180 ~ 5240MHz 18.75 mW 5260 ~ 5320MHz 20.324 mW 5500 ~ 5700MHz 18.535mW 5745 ~ 5825MHz 17.298mW
Antenna Type	PIFA antenna with -4.12dBi gain
Antenna Connector	N/A
Accessory Device	Touch Pen
Data Cable Supplied	N/A

Note:

1. The EUT provides 1 completed transmitter and 1 receiver.

Modulation Mode	TX FUNCTION
802.11g	1TX
802.11a	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX
802.11ac (20MHz)	1TX
802.11ac (40MHz)	1TX
802.11ac (80MHz)	1TX

* The modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20MHz / 40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

2. The EUT uses following adapter.

Brand	NA
Model	S048DO1900250
AC Input Power	100-240V, 50/60Hz, 1500mA
DC Output Power	19Vdc, 2500mA
Power Cable	AC Nonshielded (1.0m) DC Shielded (1.0m) with one Core

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

FOR 5180 ~ 5240MHz

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

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

Channel	Frequency
42	5210MHz

FOR 5260 ~ 5320MHz

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

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

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

Channel	Frequency
58	5290MHz

FOR 5500 ~ 5700MHz

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

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

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

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

2 channels are provided for 802.11ac (80MHz):

Channel	Frequency	Channel	Frequency
106	5530MHz	122	5610 MHz

FOR 5745 ~ 5825MHz:

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

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

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

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE ³ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE³1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE:

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

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	29.3
-	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	6.5
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	13.5
-	802.11ac (80MHz)		58	58	OFDM	BPSK	29.3
-	802.11a	5500-5700	100 to 140	100, 116, 132, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 116, 132, 140	OFDM	BPSK	6.5
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
-	802.11ac (80MHz)		106 to 122	106, 122	OFDM	BPSK	29.3
-	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	6.5
-	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	13.5
-	802.11ac (80MHz)		155	155	OFDM	BPSK	29.3

Radiated Emission Test (Below 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5180-5320	36 to 64	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	5180-5320	36 to 64	36	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	29.3
-	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	6.5
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	13.5
-	802.11ac (80MHz)		58	58	OFDM	BPSK	29.3
-	802.11a	5500-5700	100 to 140	100, 116, 132, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 116, 132, 140	OFDM	BPSK	6.5
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
-	802.11ac (80MHz)		106 to 122	106, 122	OFDM	BPSK	29.3
-	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	6.5
-	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	13.5
-	802.11ac (80MHz)		155	155	OFDM	BPSK	29.3

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE ³ 1G	28deg. C, 73%RH	120Vac, 60Hz	Aaron You
RE<1G	27deg. C, 65%RH	120Vac, 60Hz	Aaron You
PLC	27deg. C, 50%RH	120Vac, 60Hz	Hermes Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Saxon Lee

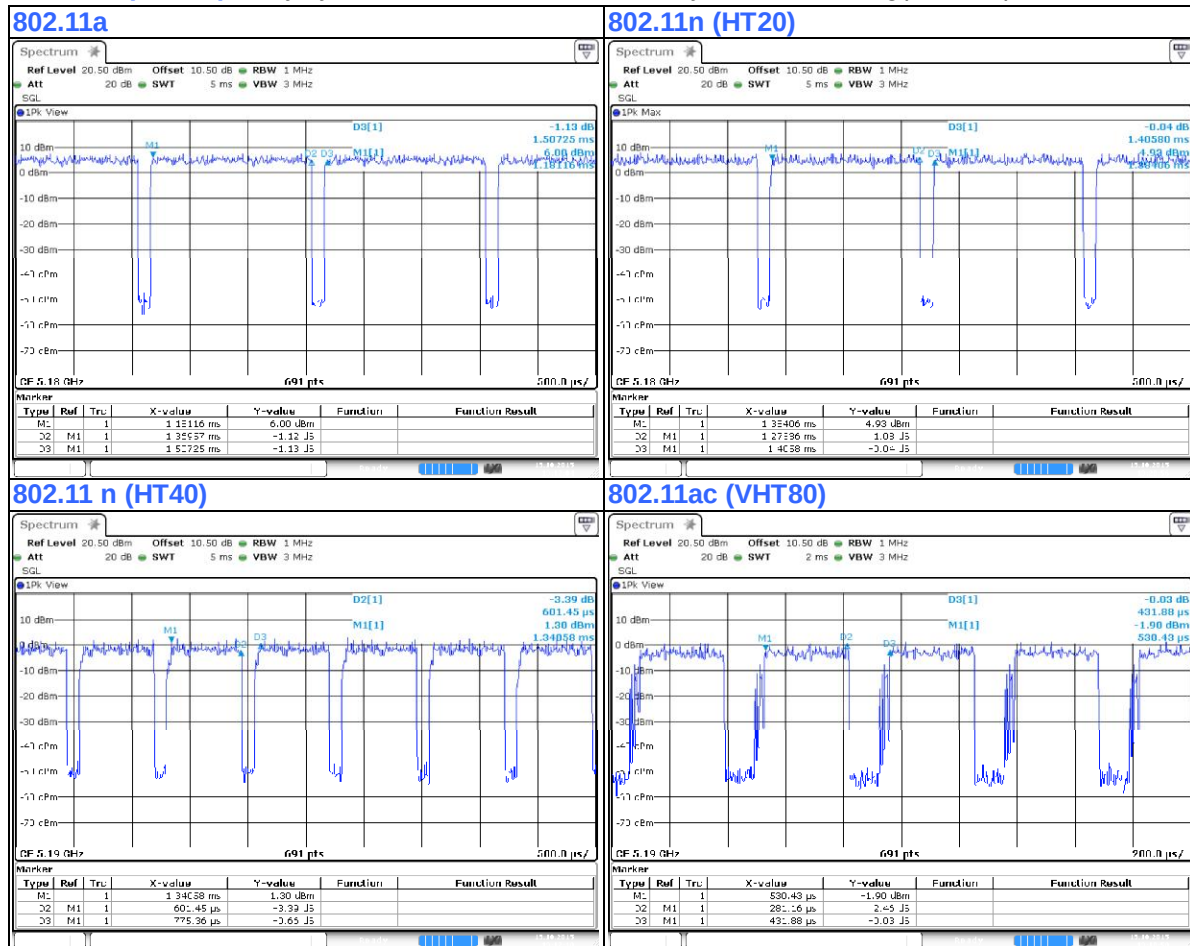
3.3 Duty Cycle of Test Signal

802.11a: Duty cycle = $1.369/1.507 = 0.908$, Duty factor = $10 * \log(1/0.908) = 0.42$

802.11n (HT40): Duty cycle = $1.275/1.405 = 0.907$, Duty factor = $10 * \log(1/0.907) = 0.42$

802.11n (HT40): Duty cycle = $0.601/0.775 = 0.775$, Duty factor = $10 * \log(1/0.775) = 1.10$

802.11ac (VHT80): Duty cycle = $0.281/0.431 = 0.652$, Duty factor = $10 * \log(1/0.652) = 1.86$



3.4 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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	USB Mouse	Microsoft	1113	9170515897415	FCC DOC Approved	Provided by Lab
B.	USB 3.0 Hard Disk	WD	WDBACY5000ABL-PE SN	WX81E81VMH07	FCC DOC Approved	Provided by Lab
C.	EARPHONE / MIC	RONALD	MOE143	N/A	N/A	Provided by Lab
D.	Micro SD	Transcend	8G	N/A	N/A	Provided by Lab
E.	Touch Pen	ALCATEL onetouch	ASCJXUI6003010584 2A0101	N/A	N/A	Supplied by client
F.	Notebook PC	DELL	P41G	HT4W952	N/A	Provided by Lab
G.	Wireless Broadband Router	D-LINK	DIR-815	PVK21B1000238	KA2IR815A1	Provided by Lab

Note:

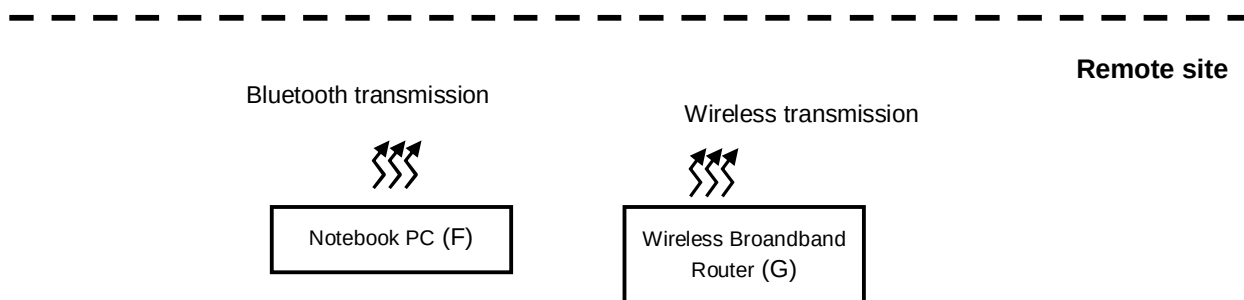
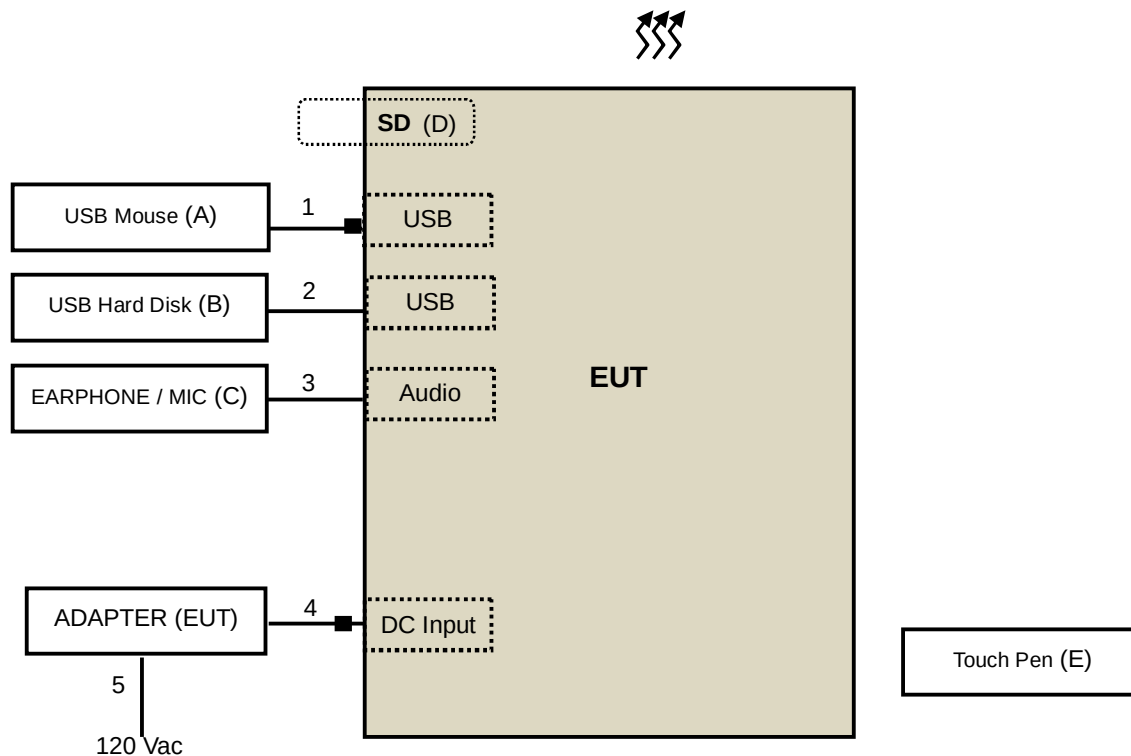
1. All power cords of the above support units are non-shielded (1.8m).
2. Items F~G acted as communication partners to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	1.8	Y	1	Provided by Lab
2.	USB cable	1	0.5	Y	0	Provided by Lab
3.	Audio cable	1	1.2	N	0	Provided by Lab
4.	DC power cable	1	1.0	Y	1	Supplied by client
5.	AC power cord	1	1.0	N	0	Supplied by client

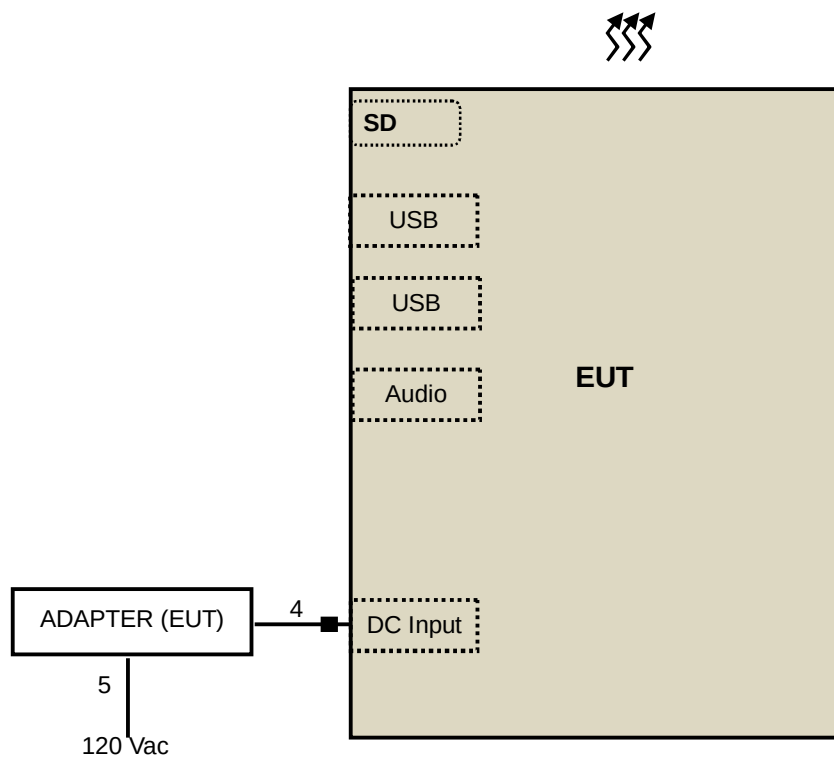
Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

Conducted Emission & Radiated Emission Test (Below 1GHz):



Radiated Emission Test (Above 1GHz):



3.5 General Description of Applied Standard

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

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedure New Rules v01

ANSI C63.10-2013

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 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 20dB under any condition of modulation.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedure New Rules v01	FIELD STRENGTH AT 3m	
	PK:74 (dBuV/m)	AV:54 (dBuV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBuV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK:-27 (dBm/MHz) ^{*1} PK:-17 (dBm/MHz) ^{*2}	PK: 68.2(dBuV/m) ^{*1} PK:78.2 (dBuV/m) ^{*2}

NOTE: ^{*1} beyond 10MHz of the band edge ^{*2} within 10 MHz of band edge

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

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

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 26, 2015	Feb. 25, 2016
HP Preamplifier	8449B	3008A01201	Feb. 26, 2015	Feb. 25, 2016
MITEQ Preamplifier	AMF-6F-260400-3 3-8P	892164	Mar. 01, 2015	Feb. 28, 2016
Agilent Spectrum	E4446A	MY51100050	Oct. 24, 2014	Oct. 23, 2015
Agilent TEST RECEIVER	N9038A	MY51210129	Jan. 20, 2015	Jan. 19, 2016
Schwarzbeck Antenna	VULB 9168	139	Feb. 04, 2015	Feb. 03, 2016
Schwarzbeck Antenna	VHBA 9123	480	May 29, 2015	May 28, 2017
Schwarzbeck Horn Antenna	BBHA-9170	212	Feb. 09, 2015	Feb. 08, 2016
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Feb. 10, 2015	Feb. 09, 2016
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15. 9.4	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF104	CABLE-CH6	Aug. 15, 2015	Aug. 14, 2016
SUHNER RF cable With 3dB PAD	SF102	Cable-CH8-3.6m	Aug. 15, 2015	Aug. 14, 2016
EMCO Horn Antenna	3115	00028257	Feb. 05, 2015	Feb. 04, 2016
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 23, 2015	Sep. 22, 2016
Anritsu Power Sensor	MA2411B	0738404	Apr. 21, 2015	Apr. 20, 2016
Anritsu Power Meter	ML2495A	0842014	Apr. 21, 2015	Apr. 20, 2016

- NOTE:**
1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.
 2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 3. The test was performed in Chamber No. 6.
 4. The Industry Canada Reference No. IC 7450E-6.
 5. The FCC Site Registration No. is 447212.

4.1.3 Test Procedure

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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 height of antenna 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

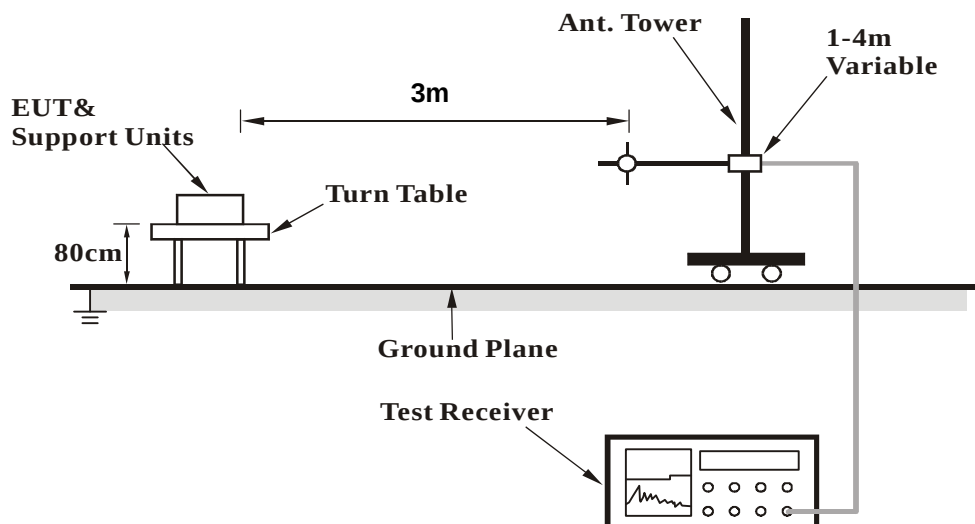
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

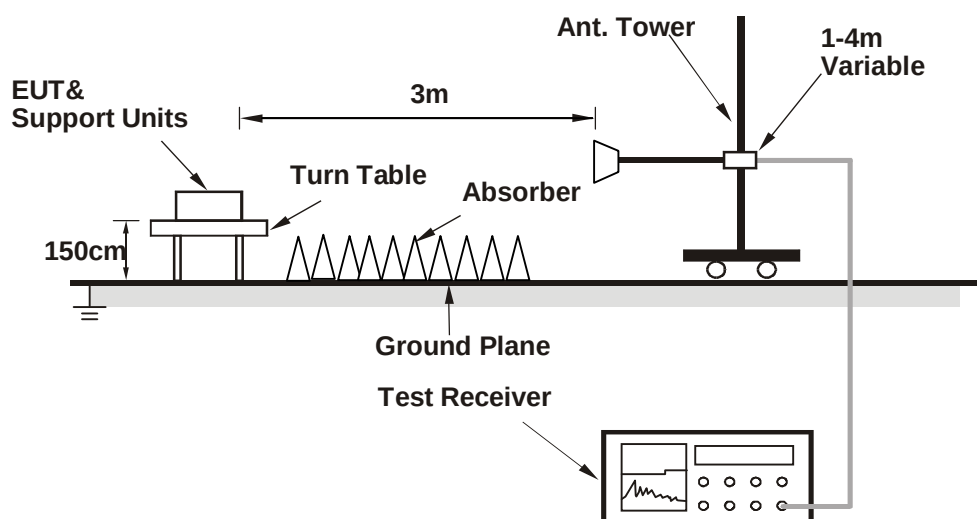
No deviation.

4.1.5 Test Setup

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT Operating Condition

Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 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 (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	72.92	29.9 QP	40.0	-10.1	4.00 H	175	41.28	-11.37
2	166.58	37.0 QP	43.5	-6.5	4.00 H	134	45.51	-8.50
3	199.94	35.9 QP	43.5	-7.6	3.81 H	161	46.93	-10.99
4	240.03	37.9 QP	46.0	-8.1	2.77 H	159	47.39	-9.53
5	539.49	37.4 QP	46.0	-8.6	1.68 H	48	39.17	-1.81
6	936.95	37.4 QP	46.0	-8.6	1.00 H	41	32.37	5.07
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	58.81	33.7 QP	40.0	-6.3	1.35 V	168	42.66	-8.98
2	82.28	33.9 QP	40.0	-6.1	1.00 V	208	47.49	-13.58
3	166.58	36.4 QP	43.5	-7.1	1.00 V	259	44.92	-8.50
4	422.61	31.4 QP	46.0	-14.6	2.13 V	247	35.68	-4.30
5	768.17	35.6 QP	46.0	-10.4	2.68 V	20	33.37	2.25
6	954.26	36.2 QP	46.0	-9.8	1.98 V	147	30.63	5.58

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

ABOVE 1GHz DATA

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.1 PK	74.0	-7.9	1.67 H	282	57.63	8.43
2	5150.00	48.7 AV	54.0	-5.3	1.67 H	282	40.25	8.43
3	*5180.00	100.0 PK			1.67 H	282	91.43	8.54
4	*5180.00	90.1 AV			1.67 H	282	81.53	8.54
5	#10360.00	60.0 PK	74.0	-14.0	1.34 H	215	40.12	19.88
6	#10360.00	46.2 AV	54.0	-7.8	1.34 H	215	26.36	19.88
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	61.3 PK	74.0	-12.7	1.00 V	236	52.86	8.43
2	5150.00	47.1 AV	54.0	-6.9	1.00 V	236	38.63	8.43
3	*5180.00	99.2 PK			1.00 V	236	90.61	8.54
4	*5180.00	89.1 AV			1.00 V	236	80.59	8.54
5	#10360.00	59.7 PK	74.0	-14.3	1.46 V	192	39.83	19.88
6	#10360.00	45.7 AV	54.0	-8.3	1.46 V	192	25.84	19.88

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	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	*5200.00	99.5 PK			1.28 H	235	90.88	8.60
2	*5200.00	88.9 AV			1.28 H	235	80.29	8.60
3	#10400.00	60.2 PK	74.0	-13.9	1.33 H	207	40.22	19.93
4	#10400.00	46.4 AV	54.0	-7.6	1.33 H	207	26.43	19.93
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	*5200.00	99.0 PK			1.32 V	239	90.38	8.60
2	*5200.00	89.2 AV			1.32 V	239	80.57	8.60
3	#10400.00	59.6 PK	74.0	-14.5	1.44 V	187	39.62	19.93
4	#10400.00	46.1 AV	54.0	-7.9	1.44 V	187	26.21	19.93

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) – Pre-Amplifier 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)
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	*5240.00	101.5 PK			1.32 H	234	92.77	8.70
2	*5240.00	91.3 AV			1.32 H	234	82.56	8.70
3	5350.00	61.1 PK	74.0	-12.9	1.32 H	234	52.10	8.96
4	5350.00	47.2 AV	54.0	-6.8	1.32 H	234	38.26	8.96
5	#10480.00	60.4 PK	74.0	-13.6	1.37 H	220	40.26	20.13
6	#10480.00	46.8 AV	54.0	-7.2	1.37 H	220	26.71	20.13
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	*5240.00	101.2 PK			1.33 V	241	92.54	8.70
2	*5240.00	90.6 AV			1.33 V	241	81.88	8.70
3	5350.00	60.0 PK	74.0	-14.0	1.33 V	241	51.06	8.96
4	5350.00	46.4 AV	54.0	-7.6	1.33 V	241	37.40	8.96
5	#10480.00	60.0 PK	74.0	-14.0	1.28 V	199	39.88	20.13
6	#10480.00	46.3 AV	54.0	-7.7	1.28 V	199	26.20	20.13

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.4 PK	74.0	-12.6	1.83 H	59	52.99	8.43
2	5150.00	46.8 AV	54.0	-7.2	1.83 H	59	38.40	8.43
3	*5260.00	105.4 PK			1.83 H	59	96.66	8.74
4	*5260.00	94.7 AV			1.83 H	59	85.97	8.74
5	#10520.00	60.5 PK	74.0	-13.5	1.24 H	199	40.36	20.18
6	#10520.00	47.2 AV	54.0	-6.8	1.24 H	199	27.05	20.18
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	59.7 PK	74.0	-14.3	1.25 V	242	51.27	8.43
2	5150.00	46.6 AV	54.0	-7.4	1.25 V	242	38.15	8.43
3	*5260.00	104.1 PK			1.25 V	242	95.34	8.74
4	*5260.00	93.8 AV			1.25 V	242	85.02	8.74
5	#10520.00	59.7 PK	74.0	-14.3	1.00 V	148	39.55	20.18
6	#10520.00	46.5 AV	54.0	-7.5	1.00 V	148	26.31	20.18

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	104.8 PK			1.75 H	58	95.92	8.84
2	*5300.00	93.6 AV			1.75 H	58	84.75	8.84
3	10600.00	60.8 PK	74.0	-13.2	1.31 H	216	40.60	20.18
4	10600.00	47.1 AV	54.0	-6.9	1.31 H	216	26.88	20.18
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	102.7 PK			1.00 V	244	93.81	8.84
2	*5300.00	91.1 AV			1.00 V	244	82.21	8.84
3	10600.00	59.5 PK	74.0	-14.6	1.05 V	166	39.27	20.18
4	10600.00	46.3 AV	54.0	-7.7	1.05 V	166	26.10	20.18

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) – Pre-Amplifier 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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	104.4 PK			1.68 H	65	95.55	8.89
2	*5320.00	93.7 AV			1.68 H	65	84.82	8.89
3	5350.00	64.3 PK	74.0	-9.7	1.68 H	65	55.35	8.96
4	5350.00	46.8 AV	54.0	-7.2	1.68 H	65	37.83	8.96
5	10640.00	61.5 PK	74.0	-12.5	1.19 H	203	41.02	20.44
6	10640.00	47.6 AV	54.0	-6.5	1.19 H	203	27.11	20.44
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	103.5 PK			1.80 V	227	94.62	8.89
2	*5320.00	92.2 AV			1.80 V	227	83.33	8.89
3	5350.00	60.2 PK	74.0	-13.8	1.80 V	227	51.20	8.96
4	5350.00	46.6 AV	54.0	-7.4	1.80 V	227	37.64	8.96
5	10640.00	59.9 PK	74.0	-14.1	1.00 V	153	39.46	20.44
6	10640.00	46.8 AV	54.0	-7.2	1.00 V	153	26.37	20.44

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.1 PK	74.0	-11.9	1.69 H	239	52.78	9.29
2	5460.00	46.9 AV	54.0	-7.1	1.69 H	239	37.59	9.29
3	#5470.00	62.6 PK	68.2	-5.6	1.69 H	239	53.25	9.34
4	*5500.00	102.0 PK			1.69 H	239	92.52	9.45
5	*5500.00	91.3 AV			1.69 H	239	81.88	9.45
6	11000.00	62.1 PK	74.0	-11.9	1.33 H	204	40.87	21.21
7	11000.00	48.0 AV	54.0	-6.0	1.33 H	204	26.83	21.21
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	5460.00	60.1 PK	74.0	-13.9	1.24 V	348	50.83	9.29
2	5460.00	46.3 AV	54.0	-7.7	1.24 V	348	37.00	9.29
3	#5470.00	61.0 PK	68.2	-7.2	1.24 V	348	51.68	9.34
4	*5500.00	93.7 PK			1.24 V	348	84.28	9.45
5	*5500.00	83.1 AV			1.24 V	348	73.64	9.45
6	11000.00	60.8 PK	74.0	-13.2	1.57 V	181	39.62	21.21
7	11000.00	47.1 AV	54.0	-6.9	1.57 V	181	25.89	21.21

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.2 PK			1.79 H	322	95.64	9.57
2	*5580.00	95.0 AV			1.79 H	322	85.39	9.57
3	11160.00	61.1 PK	74.0	-12.9	1.27 H	200	40.11	21.02
4	11160.00	47.5 AV	54.0	-6.5	1.27 H	200	26.47	21.02
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	*5580.00	97.9 PK			1.78 V	202	88.34	9.57
2	*5580.00	87.8 AV			1.78 V	202	78.25	9.57
3	11160.00	60.0 PK	74.0	-14.0	1.48 V	179	38.96	21.02
4	11160.00	46.8 AV	54.0	-7.3	1.48 V	179	25.73	21.02

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) – Pre-Amplifier 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 132	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	*5660.00	102.0 PK			1.66 H	324	92.30	9.68
2	*5660.00	91.4 AV			1.66 H	324	81.67	9.68
3	11320.00	61.7 PK	74.0	-12.3	1.30 H	221	40.10	21.61
4	11320.00	48.4 AV	54.0	-5.6	1.30 H	221	26.81	21.61
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	*5660.00	99.4 PK			2.01 V	272	89.71	9.68
2	*5660.00	89.2 AV			2.01 V	272	79.50	9.68
3	11320.00	60.4 PK	74.0	-13.6	1.47 V	173	38.76	21.61
4	11320.00	47.5 AV	54.0	-6.5	1.47 V	173	25.88	21.61

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) – Pre-Amplifier 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 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	100.1 PK			1.81 H	324	90.38	9.75
2	*5700.00	89.7 AV			1.81 H	324	79.94	9.75
3	#5725.00	61.0 PK	68.2	-7.2	1.81 H	324	51.17	9.80
4	11400.00	62.0 PK	74.0	-12.1	1.20 H	193	40.89	21.06
5	11400.00	48.0 AV	54.0	-6.0	1.20 H	193	26.91	21.06
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	99.9 PK			2.07 V	265	90.17	9.75
2	*5700.00	89.0 AV			2.07 V	265	79.21	9.75
3	#5725.00	60.6 PK	68.2	-7.5	2.07 V	265	50.83	9.80
4	11400.00	60.3 PK	74.0	-13.7	1.62 V	186	39.24	21.06
5	11400.00	47.1 AV	54.0	-6.9	1.62 V	186	26.03	21.06

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) – Pre-Amplifier 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 149	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	#5714.99	61.3 PK	68.2	-6.9	1.60 H	325	51.51	9.79
2	#5725.00	71.3 PK	78.2	-6.9	1.60 H	325	61.53	9.80
3	*5745.00	100.4 PK			1.60 H	325	90.59	9.85
4	*5745.00	89.7 AV			1.60 H	325	79.89	9.85
5	11490.00	62.2 PK	74.0	-11.8	1.42 H	188	40.86	21.38
6	11490.00	48.2 AV	54.0	-5.8	1.42 H	188	26.81	21.38
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	#5714.99	60.9 PK	68.2	-7.3	2.06 V	304	51.08	9.79
2	#5725.00	65.6 PK	78.2	-12.6	2.06 V	304	55.80	9.80
3	*5745.00	96.2 PK			2.06 V	304	86.36	9.85
4	*5745.00	85.4 AV			2.06 V	304	75.55	9.85
5	11490.00	60.7 PK	74.0	-13.4	1.77 V	162	39.27	21.38
6	11490.00	47.3 AV	54.0	-6.7	1.77 V	162	25.89	21.38

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	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	*5785.00	101.3 PK			2.15 H	325	91.33	9.94
2	*5785.00	90.8 AV			2.15 H	325	80.82	9.94
3	11570.00	62.5 PK	74.0	-11.5	1.39 H	173	41.03	21.44
4	11570.00	48.4 AV	54.0	-5.6	1.39 H	173	26.98	21.44
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	*5785.00	99.0 PK			1.98 V	307	89.09	9.94
2	*5785.00	88.3 AV			1.98 V	307	78.36	9.94
3	11570.00	61.6 PK	74.0	-12.4	1.75 V	177	40.12	21.44
4	11570.00	48.0 AV	54.0	-6.1	1.75 V	177	26.51	21.44

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) – Pre-Amplifier 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 165	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	*5825.00	105.0 PK			1.83 H	294	94.94	10.04
2	*5825.00	94.6 AV			1.83 H	294	84.56	10.04
3	#5850.00	73.6 PK	78.2	-4.6	1.83 H	294	63.57	10.07
4	#5860.01	63.8 PK	68.2	-4.4	1.83 H	294	53.75	10.09
5	11650.00	62.3 PK	74.0	-11.7	1.50 H	181	41.42	20.90
6	11650.00	48.2 AV	54.0	-5.8	1.50 H	181	27.33	20.90
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	104.0 PK			2.21 V	268	93.91	10.04
2	*5825.00	93.6 AV			2.21 V	268	83.59	10.04
3	#5850.00	71.4 PK	78.2	-6.8	2.21 V	268	61.37	10.07
4	#5860.01	62.7 PK	68.2	-5.5	2.21 V	268	52.60	10.09
5	11650.00	61.6 PK	74.0	-12.4	1.92 V	144	40.68	20.90
6	11650.00	47.4 AV	54.0	-6.6	1.92 V	144	26.51	20.90

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) – Pre-Amplifier 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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.9 PK	74.0	-13.1	1.32 H	236	52.50	8.43
2	5150.00	47.7 AV	54.0	-6.3	1.32 H	236	39.27	8.43
3	*5180.00	101.4 PK			1.32 H	236	92.86	8.54
4	*5180.00	90.2 AV			1.32 H	236	81.69	8.54
5	#10360.00	60.1 PK	74.0	-13.9	1.22 H	207	40.26	19.88
6	#10360.00	46.7 AV	54.0	-7.3	1.22 H	207	26.81	19.88
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	60.2 PK	74.0	-13.8	1.35 V	238	51.78	8.43
2	5150.00	47.0 AV	54.0	-7.0	1.35 V	238	38.54	8.43
3	*5180.00	99.4 PK			1.35 V	238	90.88	8.54
4	*5180.00	88.3 AV			1.35 V	238	79.77	8.54
5	#10360.00	59.7 PK	74.0	-14.4	1.57 V	181	39.77	19.88
6	#10360.00	45.9 AV	54.0	-8.1	1.57 V	181	25.98	19.88

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	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	*5200.00	101.3 PK			1.29 H	235	92.73	8.60
2	*5200.00	90.6 AV			1.29 H	235	81.97	8.60
3	#10400.00	60.2 PK	74.0	-13.8	1.18 H	224	40.31	19.93
4	#10400.00	46.5 AV	54.0	-7.5	1.18 H	224	26.58	19.93
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	*5200.00	99.9 PK			1.32 V	239	91.26	8.60
2	*5200.00	89.5 AV			1.32 V	239	80.93	8.60
3	#10400.00	59.6 PK	74.0	-14.5	1.29 V	195	39.62	19.93
4	#10400.00	45.8 AV	54.0	-8.2	1.29 V	195	25.89	19.93

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) – Pre-Amplifier 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)
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	*5240.00	101.5 PK			1.36 H	235	92.77	8.70
2	*5240.00	90.5 AV			1.36 H	235	81.77	8.70
3	5350.00	60.7 PK	74.0	-13.3	1.36 H	235	51.75	8.96
4	5350.00	48.4 AV	54.0	-5.6	1.36 H	235	39.43	8.96
5	#10480.00	60.4 PK	74.0	-13.6	1.24 H	200	40.23	20.13
6	#10480.00	47.0 AV	54.0	-7.0	1.24 H	200	26.91	20.13
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	*5240.00	101.2 PK			1.38 V	240	92.54	8.70
2	*5240.00	90.2 AV			1.38 V	240	81.45	8.70
3	5350.00	59.7 PK	74.0	-14.3	1.38 V	240	50.77	8.96
4	5350.00	46.3 AV	54.0	-7.7	1.38 V	240	37.35	8.96
5	#10480.00	59.6 PK	74.0	-14.4	1.22 V	188	39.43	20.13
6	#10480.00	46.2 AV	54.0	-7.8	1.22 V	188	26.07	20.13

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) – Pre-Amplifier 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 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.2 PK	74.0	-12.8	1.89 H	60	52.76	8.43
2	5150.00	47.8 AV	54.0	-6.2	1.89 H	60	39.40	8.43
3	*5260.00	104.5 PK			1.89 H	60	95.74	8.74
4	*5260.00	94.1 AV			1.89 H	60	85.36	8.74
5	#10520.00	60.8 PK	74.0	-13.2	1.14 H	200	40.63	20.18
6	#10520.00	47.1 AV	54.0	-7.0	1.14 H	200	26.87	20.18
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	59.8 PK	74.0	-14.2	1.25 V	241	51.37	8.43
2	5150.00	46.6 AV	54.0	-7.5	1.25 V	241	38.12	8.43
3	*5260.00	103.8 PK			1.25 V	241	95.10	8.74
4	*5260.00	93.4 AV			1.25 V	241	84.64	8.74
5	#10520.00	59.9 PK	74.0	-14.1	1.00 V	163	39.71	20.18
6	#10520.00	46.2 AV	54.0	-7.8	1.00 V	163	26.03	20.18

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	104.6 PK			1.60 H	57	95.71	8.84
2	*5300.00	93.8 AV			1.60 H	57	85.00	8.84
3	10600.00	61.0 PK	74.0	-13.0	1.20 H	234	40.86	20.18
4	10600.00	47.2 AV	54.0	-6.8	1.20 H	234	27.01	20.18
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	102.3 PK			1.00 V	220	93.43	8.84
2	*5300.00	92.0 AV			1.00 V	220	83.20	8.84
3	10600.00	60.1 PK	74.0	-13.9	1.04 V	160	39.88	20.18
4	10600.00	46.6 AV	54.0	-7.5	1.04 V	160	26.37	20.18

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) – Pre-Amplifier 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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	103.4 PK			1.69 H	65	94.48	8.89
2	*5320.00	92.5 AV			1.69 H	65	83.61	8.89
3	5350.00	62.3 PK	74.0	-11.8	1.69 H	65	53.29	8.96
4	5350.00	46.9 AV	54.0	-7.1	1.69 H	65	37.95	8.96
5	10640.00	61.1 PK	74.0	-12.9	1.10 H	227	40.68	20.44
6	10640.00	47.4 AV	54.0	-6.6	1.10 H	227	27.00	20.44
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	102.9 PK			1.87 V	228	93.97	8.89
2	*5320.00	92.3 AV			1.87 V	228	83.36	8.89
3	5350.00	61.2 PK	74.0	-12.8	1.87 V	228	52.23	8.96
4	5350.00	46.6 AV	54.0	-7.4	1.87 V	228	37.67	8.96
5	10640.00	60.3 PK	74.0	-13.8	1.01 V	177	39.81	20.44
6	10640.00	47.0 AV	54.0	-7.0	1.01 V	177	26.55	20.44

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.8 PK	74.0	-11.2	1.62 H	238	53.54	9.29
2	5460.00	47.8 AV	54.0	-6.2	1.62 H	238	38.48	9.29
3	#5470.00	63.6 PK	68.2	-4.6	1.62 H	238	54.27	9.34
4	*5500.00	101.5 PK			1.62 H	238	92.04	9.45
5	*5500.00	90.6 AV			1.62 H	238	81.12	9.45
6	11000.00	61.3 PK	74.0	-12.7	1.46 H	187	40.11	21.21
7	11000.00	47.7 AV	54.0	-6.3	1.46 H	187	26.53	21.21
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	5460.00	61.9 PK	74.0	-12.2	1.81 V	236	52.56	9.29
2	5460.00	46.7 AV	54.0	-7.3	1.81 V	236	37.40	9.29
3	#5470.00	61.7 PK	68.2	-6.5	1.81 V	236	52.37	9.34
4	*5500.00	98.8 PK			1.81 V	236	89.36	9.45
5	*5500.00	88.2 AV			1.81 V	236	78.78	9.45
6	11000.00	59.8 PK	74.0	-14.2	1.27 V	152	38.59	21.21
7	11000.00	46.9 AV	54.0	-7.1	1.27 V	152	25.67	21.21

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.7 PK			1.73 H	322	96.14	9.57
2	*5580.00	94.9 AV			1.73 H	322	85.30	9.57
3	11160.00	61.6 PK	74.0	-12.4	1.39 H	182	40.62	21.02
4	11160.00	47.8 AV	54.0	-6.2	1.39 H	182	26.77	21.02
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	*5580.00	98.7 PK			1.77 V	203	89.11	9.57
2	*5580.00	87.9 AV			1.77 V	203	78.31	9.57
3	11160.00	59.2 PK	74.0	-14.8	1.21 V	149	38.20	21.02
4	11160.00	47.0 AV	54.0	-7.0	1.21 V	149	25.98	21.02

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) – Pre-Amplifier 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 132	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	*5660.00	101.1 PK			1.73 H	325	91.42	9.68
2	*5660.00	90.8 AV			1.73 H	325	81.09	9.68
3	11320.00	61.5 PK	74.0	-12.5	1.40 H	199	39.93	21.61
4	11320.00	47.9 AV	54.0	-6.1	1.40 H	199	26.27	21.61
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	*5660.00	100.5 PK			1.94 V	272	90.78	9.68
2	*5660.00	89.5 AV			1.94 V	272	79.86	9.68
3	11320.00	60.2 PK	74.0	-13.8	1.23 V	156	38.63	21.61
4	11320.00	47.6 AV	54.0	-6.4	1.23 V	156	26.00	21.61

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) – Pre-Amplifier 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 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	99.6 PK			1.66 H	326	89.82	9.75
2	*5700.00	89.3 AV			1.66 H	326	79.57	9.75
3	#5725.00	64.1 PK	68.2	-4.1	1.66 H	326	54.27	9.80
4	11400.00	61.3 PK	74.0	-12.7	1.38 H	189	40.28	21.06
5	11400.00	47.9 AV	54.0	-6.1	1.38 H	189	26.87	21.06
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	96.2 PK			2.09 V	306	86.40	9.75
2	*5700.00	86.1 AV			2.09 V	306	76.36	9.75
3	#5725.00	60.2 PK	68.2	-8.0	2.09 V	306	50.42	9.80
4	11400.00	60.3 PK	74.0	-13.7	1.09 V	146	39.27	21.06
5	11400.00	47.0 AV	54.0	-7.0	1.09 V	146	25.91	21.06

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	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	#5714.99	62.6 PK	68.2	-5.6	1.58 H	324	52.81	9.79
2	#5725.00	73.6 PK	78.2	-4.7	1.58 H	324	63.75	9.80
3	*5745.00	101.5 PK			1.58 H	324	91.66	9.85
4	*5745.00	90.6 AV			1.58 H	324	80.76	9.85
5	11490.00	62.6 PK	74.0	-11.4	1.38 H	187	41.25	21.38
6	11490.00	48.6 AV	54.0	-5.4	1.38 H	187	27.22	21.38
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	#5714.99	60.9 PK	68.2	-7.3	1.92 V	305	51.14	9.79
2	#5725.00	69.2 PK	78.2	-9.0	1.92 V	305	59.39	9.80
3	*5745.00	97.6 PK			1.92 V	305	87.74	9.85
4	*5745.00	86.5 AV			1.92 V	305	76.65	9.85
5	11490.00	61.3 PK	74.0	-12.8	1.80 V	157	39.87	21.38
6	11490.00	47.6 AV	54.0	-6.4	1.80 V	157	26.18	21.38

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	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	*5785.00	103.3 PK			1.59 H	324	93.39	9.94
2	*5785.00	92.3 AV			1.59 H	324	82.38	9.94
3	11570.00	62.5 PK	74.0	-11.5	1.42 H	190	41.05	21.44
4	11570.00	49.0 AV	54.0	-5.0	1.42 H	190	27.53	21.44
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	*5785.00	97.9 PK			2.04 V	308	87.97	9.94
2	*5785.00	86.8 AV			2.04 V	308	76.87	9.94
3	11570.00	61.7 PK	74.0	-12.3	1.76 V	151	40.27	21.44
4	11570.00	47.8 AV	54.0	-6.2	1.76 V	151	26.33	21.44

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) – Pre-Amplifier 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 165	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	*5825.00	104.5 PK			1.81 H	295	94.41	10.04
2	*5825.00	93.6 AV			1.81 H	295	83.52	10.04
3	#5850.00	74.1 PK	78.2	-4.2	1.81 H	295	63.98	10.07
4	#5860.01	64.7 PK	68.2	-3.5	1.81 H	295	54.59	10.09
5	11650.00	62.2 PK	74.0	-11.9	1.32 H	191	41.25	20.90
6	11650.00	48.6 AV	54.0	-5.4	1.32 H	191	27.66	20.90
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	104.0 PK			1.98 V	267	93.95	10.04
2	*5825.00	93.2 AV			1.98 V	267	83.18	10.04
3	#5850.00	72.4 PK	78.2	-5.8	1.98 V	267	62.34	10.07
4	#5860.01	62.9 PK	68.2	-5.3	1.98 V	267	52.77	10.09
5	11650.00	61.1 PK	74.0	-12.9	1.79 V	158	40.21	20.90
6	11650.00	47.6 AV	54.0	-6.4	1.79 V	158	26.70	20.90

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) – Pre-Amplifier 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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	1.22 H	234	54.43	8.43
2	5150.00	48.2 AV	54.0	-5.8	1.22 H	234	39.81	8.43
3	*5190.00	98.3 PK			1.22 H	234	89.69	8.57
4	*5190.00	86.3 AV			1.22 H	234	77.75	8.57
5	#10380.00	60.1 PK	74.0	-13.9	1.09 H	213	40.22	19.90
6	#10380.00	46.2 AV	54.0	-7.8	1.09 H	213	26.31	19.90
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	5150.00	61.5 PK	74.0	-12.5	1.34 V	240	53.08	8.43
2	5150.00	47.6 AV	54.0	-6.4	1.34 V	240	39.20	8.43
3	*5190.00	96.8 PK			1.34 V	240	88.22	8.57
4	*5190.00	85.1 AV			1.34 V	240	76.50	8.57
5	#10380.00	59.1 PK	74.0	-14.9	1.68 V	174	39.22	19.90
6	#10380.00	45.7 AV	54.0	-8.3	1.68 V	174	25.84	19.90

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	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	*5230.00	98.0 PK			1.28 H	235	89.28	8.67
2	*5230.00	86.1 AV			1.28 H	235	77.45	8.67
3	5350.00	60.9 PK	74.0	-13.1	1.28 H	235	51.94	8.96
4	5350.00	48.5 AV	54.0	-5.5	1.28 H	235	39.56	8.96
5	#10460.00	60.7 PK	74.0	-13.3	1.12 H	200	40.62	20.08
6	#10460.00	46.6 AV	54.0	-7.4	1.12 H	200	26.48	20.08
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	*5230.00	97.0 PK			1.00 V	214	88.35	8.67
2	*5230.00	85.2 AV			1.00 V	214	76.53	8.67
3	5350.00	59.8 PK	74.0	-14.2	1.00 V	214	50.86	8.96
4	5350.00	46.9 AV	54.0	-7.1	1.00 V	214	37.94	8.96
5	#10460.00	59.9 PK	74.0	-14.1	1.52 V	171	39.86	20.08
6	#10460.00	46.1 AV	54.0	-7.9	1.52 V	171	25.99	20.08

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.5 PK	74.0	-12.5	1.81 H	61	53.11	8.43
2	5150.00	47.9 AV	54.0	-6.1	1.81 H	61	39.51	8.43
3	*5270.00	101.2 PK			1.81 H	61	92.46	8.77
4	*5270.00	89.9 AV			1.81 H	61	81.15	8.77
5	#10540.00	60.5 PK	74.0	-13.5	1.12 H	234	40.31	20.18
6	#10540.00	47.2 AV	54.0	-6.8	1.12 H	234	27.02	20.18
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	59.7 PK	74.0	-14.3	1.12 V	243	51.29	8.43
2	5150.00	47.2 AV	54.0	-6.8	1.12 V	243	38.74	8.43
3	*5270.00	99.1 PK			1.12 V	243	90.30	8.77
4	*5270.00	88.1 AV			1.12 V	243	79.29	8.77
5	#10540.00	59.4 PK	74.0	-14.6	1.00 V	172	39.22	20.18
6	#10540.00	46.2 AV	54.0	-7.8	1.00 V	172	26.03	20.18

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	100.8 PK			1.67 H	59	91.97	8.86
2	*5310.00	90.6 AV			1.67 H	59	81.78	8.86
3	5350.00	72.1 PK	74.0	-1.9	1.67 H	59	63.13	8.96
4	5350.00	52.1 AV	54.0	-1.9	1.67 H	59	43.12	8.96
5	10620.00	60.8 PK	74.0	-13.2	1.09 H	231	40.52	20.32
6	10620.00	47.5 AV	54.0	-6.5	1.09 H	231	27.15	20.32
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	100.1 PK			1.80 V	224	91.26	8.86
2	*5310.00	89.5 AV			1.80 V	224	80.63	8.86
3	5350.00	67.9 PK	74.0	-6.2	1.80 V	224	58.89	8.96
4	5350.00	50.1 AV	54.0	-3.9	1.80 V	224	41.18	8.96
5	10620.00	60.2 PK	74.0	-13.8	1.02 V	180	39.84	20.32
6	10620.00	46.6 AV	54.0	-7.4	1.02 V	180	26.25	20.32

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) – Pre-Amplifier 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 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.3 PK	74.0	-11.7	1.67 H	239	53.01	9.29
2	5460.00	47.8 AV	54.0	-6.2	1.67 H	239	38.53	9.29
3	#5470.00	67.2 PK	68.2	-1.0	1.67 H	239	57.82	9.34
4	*5510.00	99.6 PK			1.67 H	239	90.15	9.46
5	*5510.00	88.4 AV			1.67 H	239	78.95	9.46
6	11020.00	61.1 PK	74.0	-12.9	1.40 H	186	39.88	21.18
7	11020.00	47.9 AV	54.0	-6.1	1.40 H	186	26.74	21.18
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	5460.00	60.9 PK	74.0	-13.1	1.97 V	235	51.62	9.29
2	5460.00	47.3 AV	54.0	-6.7	1.97 V	235	37.98	9.29
3	#5470.00	64.7 PK	68.2	-3.5	1.97 V	235	55.34	9.34
4	*5510.00	96.9 PK			1.97 V	235	87.40	9.46
5	*5510.00	85.5 AV			1.97 V	235	76.03	9.46
6	11020.00	60.4 PK	74.0	-13.6	1.67 V	153	39.22	21.18
7	11020.00	47.0 AV	54.0	-7.0	1.67 V	153	25.84	21.18

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) – Pre-Amplifier 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)
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	*5550.00	102.6 PK			1.82 H	324	93.10	9.52
2	*5550.00	92.0 AV			1.82 H	324	82.46	9.52
3	11100.00	61.2 PK	74.0	-12.8	1.42 H	190	40.16	21.05
4	11100.00	47.6 AV	54.0	-6.4	1.42 H	190	26.58	21.05
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	95.2 PK			1.72 V	205	85.72	9.52
2	*5550.00	84.6 AV			1.72 V	205	75.03	9.52
3	11100.00	60.7 PK	74.0	-13.3	1.65 V	144	39.62	21.05
4	11100.00	46.9 AV	54.0	-7.1	1.65 V	144	25.81	21.05

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	100.0 PK			1.76 H	324	90.26	9.70
2	*5670.00	88.7 AV			1.76 H	324	79.01	9.70
3	#5725.00	62.3 PK	68.2	-5.9	1.76 H	324	52.53	9.80
4	11340.00	62.1 PK	74.0	-11.9	1.44 H	182	40.60	21.47
5	11340.00	48.3 AV	54.0	-5.7	1.44 H	182	26.84	21.47

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	92.0 PK			1.76 V	171	82.27	9.70
2	*5670.00	81.3 AV			1.76 V	171	71.59	9.70
3	#5725.00	60.6 PK	68.2	-7.6	1.76 V	171	50.78	9.80
4	11340.00	60.4 PK	74.0	-13.6	1.62 V	155	38.97	21.47
5	11340.00	47.6 AV	54.0	-6.4	1.62 V	155	26.10	21.47

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) – Pre-Amplifier 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 151	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	#5714.99	67.1 PK	68.2	-1.1	1.55 H	326	57.34	9.79
2	#5725.00	71.9 PK	78.2	-6.3	1.55 H	326	62.10	9.80
3	*5755.00	98.1 PK			1.55 H	326	88.19	9.88
4	*5755.00	87.2 AV			1.55 H	326	77.29	9.88
5	11510.00	62.6 PK	74.0	-11.5	1.42 H	200	41.13	21.42
6	11510.00	48.5 AV	54.0	-5.5	1.42 H	200	27.05	21.42
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	#5714.99	65.9 PK	68.2	-2.3	1.95 V	270	56.11	9.79
2	#5725.00	71.5 PK	78.2	-6.7	1.95 V	270	61.70	9.80
3	*5755.00	97.6 PK			1.95 V	270	87.76	9.88
4	*5755.00	85.9 AV			1.95 V	270	76.01	9.88
5	11510.00	61.3 PK	74.0	-12.7	1.72 V	165	39.85	21.42
6	11510.00	47.8 AV	54.0	-6.2	1.72 V	165	26.37	21.42

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	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	*5795.00	99.5 PK			1.57 H	324	89.49	9.96
2	*5795.00	88.6 AV			1.57 H	324	78.62	9.96
3	#5850.00	63.6 PK	78.2	-14.6	1.57 H	324	53.54	10.07
4	#5860.01	62.4 PK	68.2	-5.8	1.57 H	324	52.32	10.09
5	11590.00	62.7 PK	74.0	-11.3	1.51 H	197	41.27	21.45
6	11590.00	48.6 AV	54.0	-5.4	1.51 H	197	27.15	21.45
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	97.0 PK			2.06 V	303	87.06	9.96
2	*5795.00	85.4 AV			2.06 V	303	75.43	9.96
3	#5850.00	62.2 PK	78.2	-16.0	2.06 V	303	52.10	10.07
4	#5860.01	61.9 PK	68.2	-6.3	2.06 V	303	51.81	10.09
5	11590.00	60.7 PK	74.0	-13.3	1.81 V	170	39.28	21.45
6	11590.00	47.6 AV	54.0	-6.4	1.81 V	170	26.13	21.45

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) – Pre-Amplifier 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.

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CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.4 PK	74.0	-9.6	1.15 H	236	55.99	8.43
2	5150.00	50.1 AV	54.0	-3.9	1.15 H	236	41.64	8.43
3	*5210.00	97.1 PK			1.15 H	236	88.47	8.62
4	*5210.00	84.7 AV			1.15 H	236	76.08	8.62
5	5350.00	61.1 PK	74.0	-12.9	1.15 H	236	52.11	8.96
6	5350.00	47.3 AV	54.0	-6.7	1.15 H	236	38.38	8.96
7	#10420.00	60.3 PK	74.0	-13.7	1.10 H	203	40.33	19.98
8	#10420.00	46.7 AV	54.0	-7.3	1.10 H	203	26.69	19.98
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	5150.00	64.0 PK	74.0	-10.0	1.19 V	239	55.58	8.43
2	5150.00	49.1 AV	54.0	-5.0	1.19 V	239	40.62	8.43
3	*5210.00	96.3 PK			1.19 V	239	87.67	8.62
4	*5210.00	84.2 AV			1.19 V	239	75.60	8.62
5	5350.00	59.7 PK	74.0	-14.3	1.19 V	239	50.72	8.96
6	5350.00	46.4 AV	54.0	-7.6	1.19 V	239	37.41	8.96
7	#10420.00	59.3 PK	74.0	-14.8	1.49 V	180	39.27	19.98
8	#10420.00	45.4 AV	54.0	-8.6	1.49 V	180	25.46	19.98

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	1.73 H	59	52.84	8.43
2	5150.00	47.8 AV	54.0	-6.2	1.73 H	59	39.38	8.43
3	*5290.00	97.1 PK			1.73 H	59	88.24	8.82
4	*5290.00	85.8 AV			1.73 H	59	76.95	8.82
5	5350.00	70.7 PK	74.0	-3.4	1.73 H	59	61.69	8.96
6	5350.00	52.9 AV	54.0	-1.1	1.73 H	59	43.95	8.96
7	#10580.00	60.8 PK	74.0	-13.2	1.11 H	224	40.61	20.18
8	#10580.00	47.2 AV	54.0	-6.8	1.11 H	224	27.03	20.18

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	61.1 PK	74.0	-13.0	1.80 V	221	52.62	8.43
2	5150.00	47.4 AV	54.0	-6.6	1.80 V	221	39.01	8.43
3	*5290.00	94.9 PK			1.80 V	221	86.04	8.82
4	*5290.00	83.7 AV			1.80 V	221	74.87	8.82
5	5350.00	65.2 PK	74.0	-8.9	1.80 V	221	56.19	8.96
6	5350.00	49.9 AV	54.0	-4.1	1.80 V	221	40.92	8.96
7	#10580.00	60.1 PK	74.0	-14.0	1.00 V	176	39.87	20.18
8	#10580.00	45.6 AV	54.0	-8.4	1.00 V	176	25.43	20.18

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	66.0 PK	74.0	-8.0	1.66 H	245	56.69	9.29
2	5460.00	49.9 AV	54.0	-4.1	1.66 H	245	40.59	9.29
3	#5470.00	67.2 PK	68.2	-1.0	1.66 H	245	57.82	9.34
4	*5530.00	96.8 PK			1.66 H	245	87.27	9.50
5	*5530.00	85.1 AV			1.66 H	245	75.59	9.50
6	11060.00	61.4 PK	74.0	-12.6	1.48 H	195	40.26	21.12
7	11060.00	48.0 AV	54.0	-6.0	1.48 H	195	26.88	21.12
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	5460.00	64.7 PK	74.0	-9.3	1.93 V	266	55.45	9.29
2	5460.00	49.4 AV	54.0	-4.6	1.93 V	266	40.08	9.29
3	#5470.00	65.8 PK	68.2	-2.4	1.93 V	266	56.42	9.34
4	*5530.00	95.6 PK			1.93 V	266	86.07	9.50
5	*5530.00	84.2 AV			1.93 V	266	74.72	9.50
6	11060.00	60.1 PK	74.0	-13.9	1.62 V	177	38.99	21.12
7	11060.00	47.0 AV	54.0	-7.0	1.62 V	177	25.90	21.12

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	100.8 PK			1.67 H	322	91.18	9.61
2	*5610.00	88.6 AV			1.67 H	322	79.01	9.61
3	#5725.00	62.7 PK	68.2	-5.5	1.67 H	322	52.91	9.80
4	11220.00	61.4 PK	74.0	-12.6	1.44 H	203	40.28	21.16
5	11220.00	47.9 AV	54.0	-6.1	1.44 H	203	26.71	21.16
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	94.1 PK			1.69 V	204	84.48	9.61
2	*5610.00	82.3 AV			1.69 V	204	72.64	9.61
3	#5725.00	61.1 PK	68.2	-7.1	1.69 V	204	51.32	9.80
4	11220.00	60.6 PK	74.0	-13.4	1.65 V	183	39.40	21.16
5	11220.00	46.9 AV	54.0	-7.1	1.65 V	183	25.73	21.16

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) – Pre-Amplifier 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 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	#5714.99	67.0 PK	68.2	-1.2	1.61 H	323	57.19	9.79
2	#5725.00	69.0 PK	78.2	-9.2	1.61 H	323	59.18	9.80
3	*5775.00	94.4 PK			1.61 H	323	84.46	9.93
4	*5775.00	82.7 AV			1.61 H	323	72.81	9.93
5	#5850.00	65.1 PK	78.2	-13.1	1.61 H	323	54.99	10.07
6	#5860.01	62.9 PK	68.2	-5.3	1.61 H	328	52.80	10.09
7	11550.00	61.4 PK	74.0	-12.6	1.39 H	224	39.97	21.43
8	11550.00	47.8 AV	54.0	-6.2	1.39 H	224	26.38	21.43
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	#5714.99	61.2 PK	68.2	-7.0	2.06 V	307	51.42	9.79
2	#5725.00	64.0 PK	78.2	-14.2	2.06 V	307	54.21	9.80
3	*5775.00	91.2 PK			2.06 V	307	81.28	9.93
4	*5775.00	79.8 AV			2.06 V	307	69.89	9.93
5	#5850.00	62.7 PK	78.2	-15.5	2.06 V	307	52.61	10.07
6	#5860.01	61.9 PK	68.2	-6.4	2.06 V	307	51.76	10.09
7	11550.00	60.7 PK	74.0	-13.3	1.62 V	153	39.27	21.43
8	11550.00	47.3 AV	54.0	-6.7	1.62 V	153	25.88	21.43

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	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.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100290	Dec. 27, 2014	Dec. 26, 2015
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	100104	Dec. 04, 2014	Dec. 03, 2015
LISN With Adapter (for EUT)	AD10	C09Ada-001	Dec. 04, 2014	Dec. 03, 2015
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	847265/023	Oct. 21, 2014	Oct. 20, 2015
SCHWARZBECK Artificial Mains Network (For EUT)	NNLK8129	8129229	May 06, 2015	May 05, 2016
Software	Cond_V7.3.7	NA	NA	NA
RF cable (JYEBAO) With 10dB PAD	5D-FB	Cable-C09.01	Feb. 24, 2015	Feb. 23, 2016
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010789	May 19, 2015	May 18, 2016
ROHDE & SCHWARZ Artificial Mains Network (For TV EUT)	ESH3-Z5	100220	Nov. 20, 2014	Nov. 19, 2015
LISN With Adapter (for TV EUT)	100220	N/A	Nov. 20, 2014	Nov. 19, 2015

Notes: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in Shielded Room No. 9.

3. The VCCI Site Registration No. C-1312.

4.2.3 Test Procedure

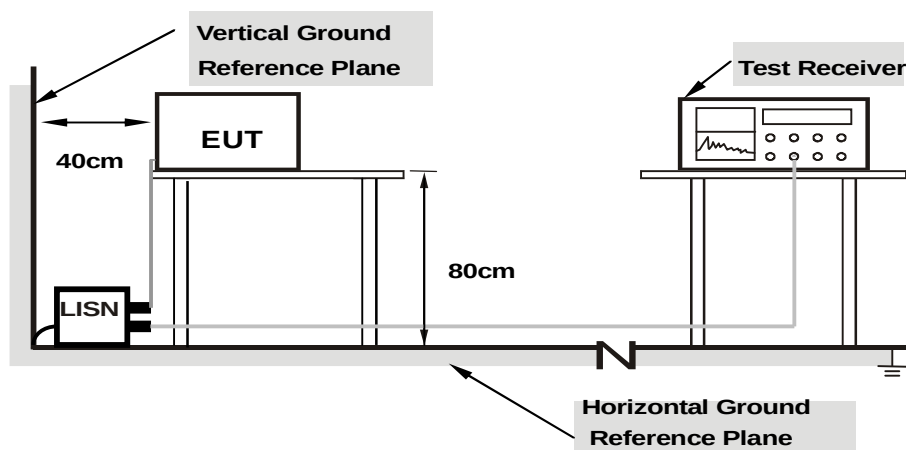
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Condition

Same as 4.1.6.

4.2.7 Test Results

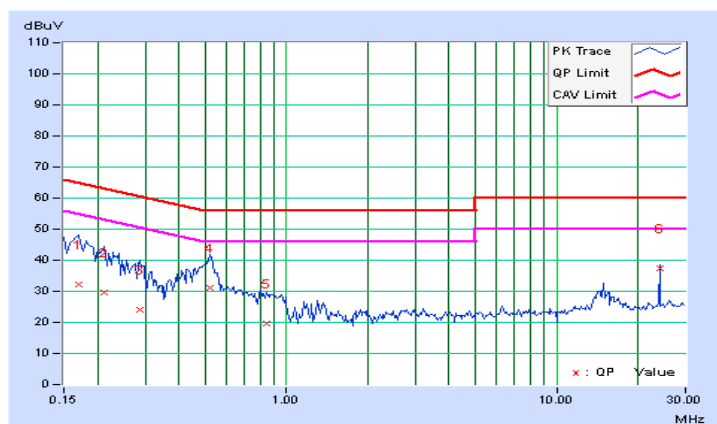
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Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	10.23	22.09	2.94	32.32	13.17	64.98	54.98	-32.66	-41.81
2	0.21250	10.24	19.35	3.82	29.59	14.06	63.11	53.11	-33.51	-39.04
3	0.28672	10.26	13.90	6.69	24.16	16.95	60.62	50.62	-36.46	-33.67
4	0.52109	10.30	20.79	6.39	31.09	16.69	56.00	46.00	-24.91	-29.31
5	0.84141	10.35	9.43	3.70	19.78	14.05	56.00	46.00	-36.22	-31.95
6	24.02344	11.01	26.42	26.18	37.43	37.19	60.00	50.00	-22.57	-12.81

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.

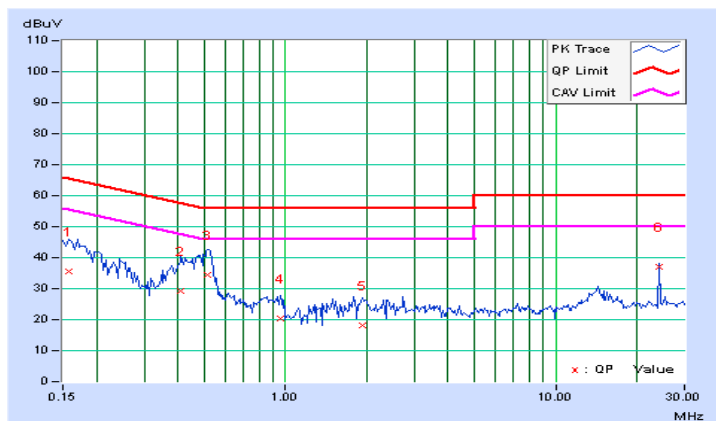


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	10.23	25.43	10.66	35.66	20.89	65.58	55.58	-29.92	-34.69
2	0.41172	10.29	19.14	8.25	29.43	18.54	57.61	47.61	-28.18	-29.07
3	0.51719	10.31	24.13	5.29	34.44	15.60	56.00	46.00	-21.56	-30.40
4	0.96250	10.38	9.99	4.20	20.37	14.58	56.00	46.00	-35.63	-31.42
5	1.92188	10.50	7.54	3.94	18.04	14.44	56.00	46.00	-37.96	-31.56
6	24.02344	10.67	26.20	25.96	36.87	36.63	60.00	50.00	-23.13	-13.37

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.



4.3 Transmit Power Measurement

4.3.1 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 $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

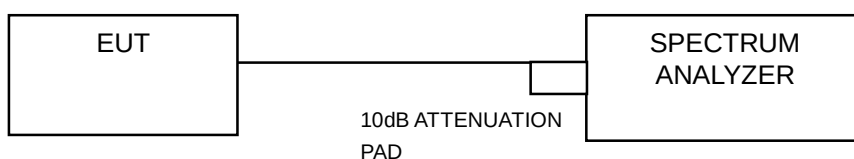
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

FOR AVERAGE POWER MEASUREMENT

For 802.11a, 802.11n (20MHz), 802.11n (40MHz)

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 802.11ac (80MHz)

- 1) Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- 2) Set sweep trigger to "free run".
- 3) Set RBW = 1 MHz.
- 4) Set VBW $\geq$ 3 MHz
- 5) Number of points in sweep $\geq$ 2 Span / RBW.
- 6) Sweep time $\leq$ (number of points in sweep) * T
- 7) Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- 8) Detector = RMS.
- 9) Trace mode = max hold.
- 10) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

FOR 26 BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 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%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

POWER OUTPUT:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	18.45	12.66	24	PASS
40	5200	18.493	12.67	24	PASS
48	5240	18.75	12.73	24	PASS
52	5260	19.32	12.86	24	PASS
60	5300	19.634	12.93	24	PASS
64	5320	20.324	13.08	24	PASS
100	5500	17.701	12.48	24	PASS
116	5580	17.906	12.53	24	PASS
132	5660	18.535	12.68	24	PASS
140	5700	17.865	12.52	24	PASS
149	5745	17.298	12.38	30	PASS
157	5785	15.668	11.95	30	PASS
165	5825	14.588	11.64	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(20.41) = 24.10\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(20.23) = 24.06\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(20.43) = 24.10\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(20.45) = 24.11\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(20.40) = 24.10\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(20.58) = 24.13\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(20.62) = 24.14\text{ dBm} > 24\text{dBm}$.

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	18.239	12.61	24	PASS
40	5200	18.365	12.64	24	PASS
48	5240	18.664	12.71	24	PASS
52	5260	19.588	12.92	24	PASS
60	5300	20.184	13.05	24	PASS
64	5320	20.324	13.08	24	PASS
100	5500	17.14	12.34	24	PASS
116	5580	17.298	12.38	24	PASS
132	5660	17.824	12.51	24	PASS
140	5700	17.061	12.32	24	PASS
149	5745	15.453	11.89	30	PASS
157	5785	14.894	11.73	30	PASS
165	5825	14.322	11.56	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(20.41) = 24.10\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(20.42) = 24.10\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(20.42) = 24.10\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(20.41) = 24.10\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(20.47) = 24.11\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(20.95) = 24.21\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(21.02) = 24.23\text{ dBm} > 24\text{dBm}$.

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	17.498	12.43	24	PASS
46	5230	17.539	12.44	24	PASS
54	5270	18.967	12.78	24	PASS
62	5310	18.707	12.72	24	PASS
102	5510	17.298	12.38	24	PASS
110	5550	15.417	11.88	24	PASS
134	5670	15.704	11.96	24	PASS
151	5755	15.205	11.82	30	PASS
159	5795	14.689	11.67	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(40.87) = 27.11\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(40.97) = 27.12\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(40.88) = 27.12\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(40.90) = 27.12\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(41.17) = 27.15\text{ dBm} > 24\text{dBm}$.

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	17.298	12.38	24	PASS
58	5290	17.498	12.43	24	PASS
106	5530	15.922	12.02	24	PASS
122	5610	15.596	11.93	24	PASS
155	5775	14.588	11.64	30	PASS

NOTE:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(81.62) = 30.12\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(81.69) = 30.12\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(81.69) = 30.12\text{ dBm} > 24\text{dBm}$.

26dB BANDWIDTH:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	20.43	PASS
40	5200	20.45	PASS
48	5240	20.43	PASS
52	5260	20.41	PASS
60	5300	20.23	PASS
64	5320	20.43	PASS
100	5500	20.45	PASS
116	5580	20.40	PASS
132	5660	20.58	PASS
140	5700	20.62	PASS

802.11n (20MHz)

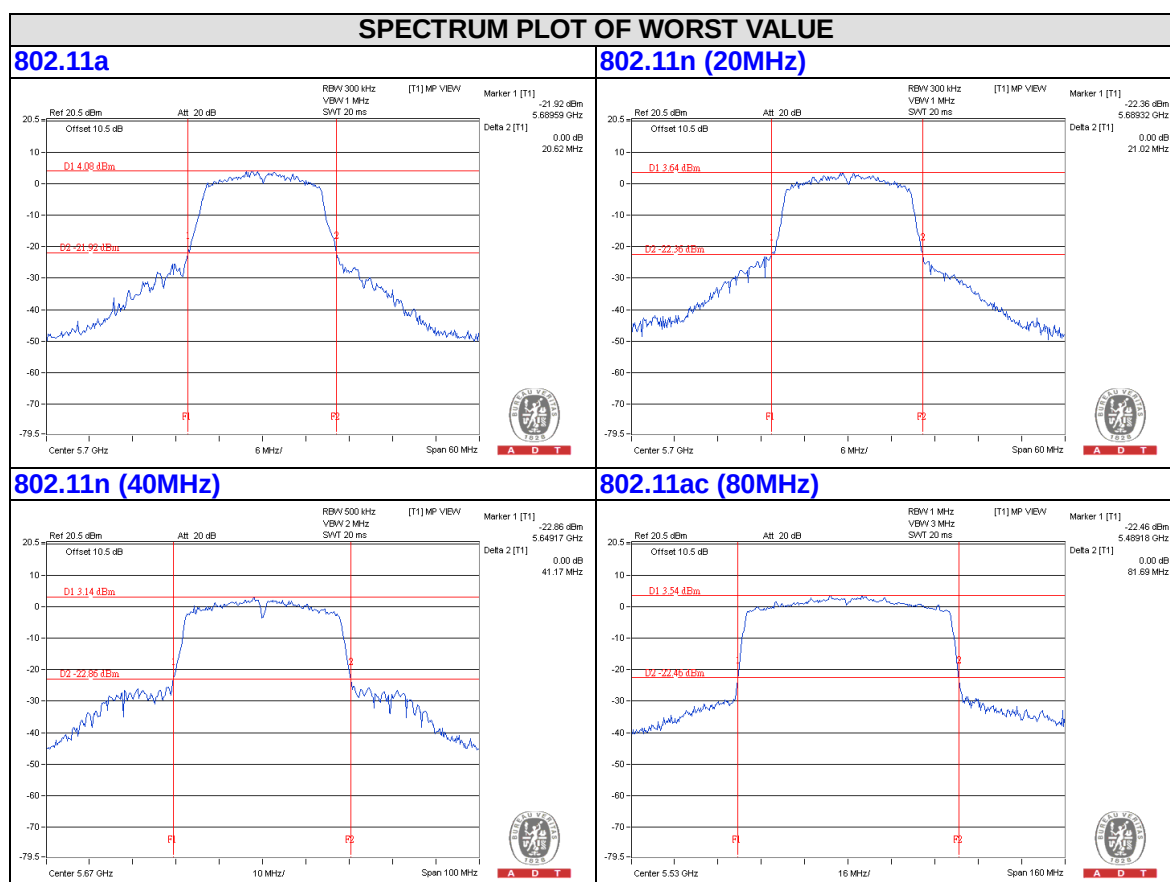
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	20.43	PASS
40	5200	20.43	PASS
48	5240	20.38	PASS
52	5260	20.41	PASS
60	5300	20.42	PASS
64	5320	20.42	PASS
100	5500	20.41	PASS
116	5580	20.47	PASS
132	5660	20.95	PASS
140	5700	21.02	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	40.69	PASS
46	5230	40.94	PASS
54	5270	40.87	PASS
62	5310	40.97	PASS
102	5510	40.88	PASS
110	5550	40.90	PASS
134	5670	41.17	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
42	5210	81.65	PASS
58	5290	81.62	PASS
106	5530	81.69	PASS
122	5610	81.69	PASS



OCCUPIED BANDWIDTH:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
36	5180	16.68	PASS
40	5200	16.80	PASS
48	5240	16.80	PASS
52	5260	16.68	PASS
60	5300	16.68	PASS
64	5320	16.68	PASS
100	5500	16.80	PASS
116	5580	16.68	PASS
132	5660	16.80	PASS
140	5700	16.80	PASS
149	5745	16.70	PASS
157	5785	16.80	PASS
165	5825	16.70	PASS

802.11n (HT20)

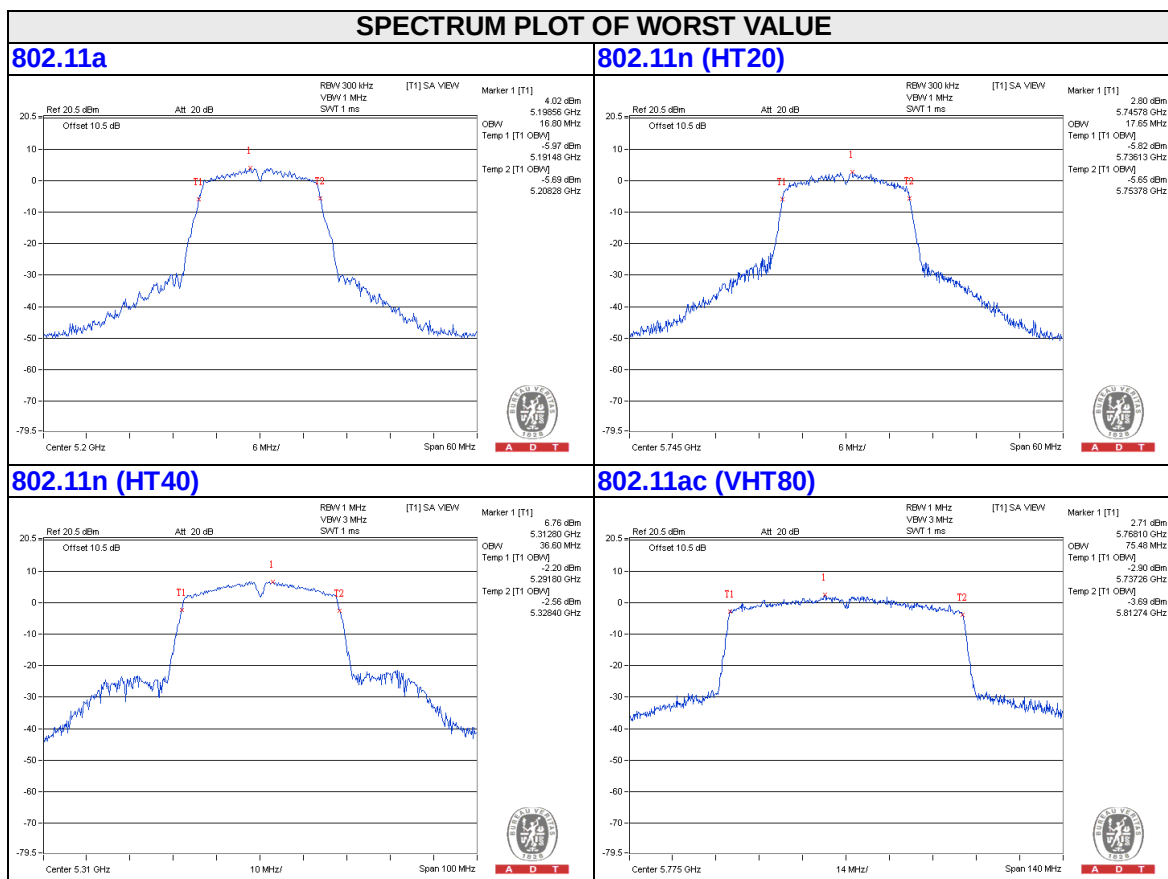
CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
36	5180	17.64	PASS
40	5200	17.64	PASS
48	5240	17.64	PASS
52	5260	17.64	PASS
60	5300	17.64	PASS
64	5320	17.64	PASS
100	5500	17.64	PASS
116	5580	17.64	PASS
132	5660	17.64	PASS
140	5700	17.64	PASS
149	5745	17.65	PASS
157	5785	17.60	PASS
165	5825	17.60	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
38	5190	36.40	PASS
46	5230	36.40	PASS
54	5270	36.40	PASS
62	5310	36.60	PASS
102	5510	36.40	PASS
110	5550	36.60	PASS
134	5670	36.60	PASS
151	5755	36.38	PASS
159	5795	36.33	PASS

802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
42	5210	75.36	PASS
58	5290	75.36	PASS
106	5530	75.36	PASS
122	5610	75.36	PASS
155	5775	75.48	PASS



EUT MAXIMUM CONDUCTED POWER

802.11a

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	20.324	13.08
5470~5725	18.535	12.68

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	20.324	13.08
5470~5725	17.824	12.51

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	18.967	12.78
5470~5725	17.298	12.38

NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11ac (VHT80)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	17.498	12.43
5470~5725	15.922	12.02

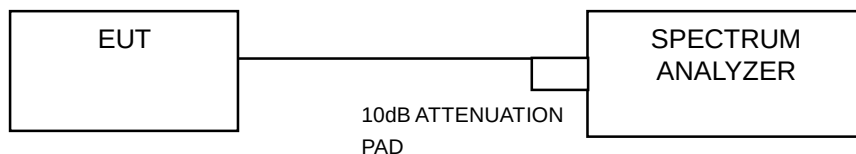
NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

4.4 Peak Power Spectral Density Measurement

4.4.1 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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

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 = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to “free run”.
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

For U-NII-3:

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. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500\text{ kHz}/300\text{ kHz})$
5. Sweep time = auto, trigger set to “free run”.
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Condition

Same as Item 4.3.6.

4.4.7 Test Results

For U-NII-1, U-NII-2A, U-NII-2C Band

802.11a

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	-0.07	0.42	0.35	11	PASS
40	5200	0.04	0.42	0.46	11	PASS
48	5240	0.15	0.42	0.57	11	PASS
52	5260	0.34	0.42	0.76	11	PASS
60	5300	0.58	0.42	1.00	11	PASS
64	5320	0.4	0.42	0.82	11	PASS
100	5500	-0.23	0.42	0.19	11	PASS
116	5580	-0.14	0.42	0.28	11	PASS
132	5660	-0.1	0.42	0.32	11	PASS
140	5700	-0.34	0.42	0.08	11	PASS

NOTE: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	-0.27	0.42	0.15	11	PASS
40	5200	-0.27	0.42	0.15	11	PASS
48	5240	-0.16	0.42	0.26	11	PASS
52	5260	0.03	0.42	0.45	11	PASS
60	5300	0.09	0.42	0.51	11	PASS
64	5320	0.32	0.42	0.74	11	PASS
100	5500	-0.58	0.42	-0.16	11	PASS
116	5580	-0.60	0.42	-0.18	11	PASS
132	5660	-0.50	0.42	-0.08	11	PASS
140	5700	-0.64	0.42	-0.22	11	PASS

NOTE: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
38	5190	-3.72	1.10	-2.61	11	PASS
46	5230	-3.77	1.10	-2.66	11	PASS
54	5270	-3.55	1.10	-2.44	11	PASS
62	5310	-3.36	1.10	-2.25	11	PASS
102	5510	-4.22	1.10	-3.11	11	PASS
110	5550	-4.05	1.10	-2.94	11	PASS
134	5670	-4.07	1.10	-2.96	11	PASS

NOTE: Refer to section 3.3 for duty cycle spectrum plot.

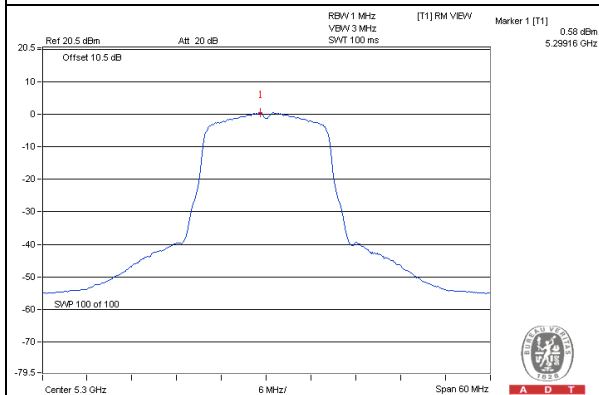
802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
42	5210	-7.52	1.86	-5.66	11	PASS
58	5290	-7.32	1.86	-5.46	11	PASS
106	5530	-7.99	1.86	-6.13	11	PASS
122	5610	-7.99	1.86	-6.13	11	PASS

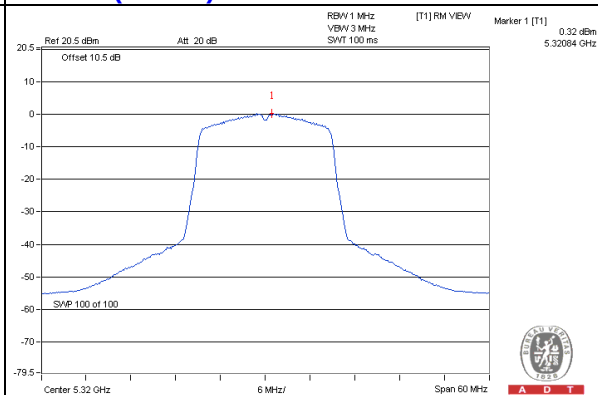
NOTE: Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

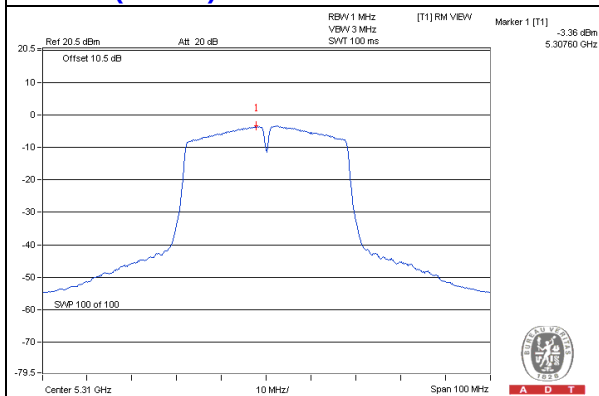
802.11a



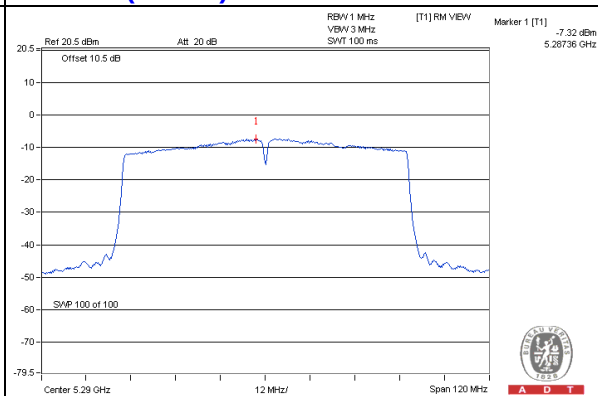
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



For U-NII-3 Band

802.11a

Channel	Freq. (MHz)	PSD (dBm/500kHz)	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
149	5745	5.86	0.42	6.28	30	PASS
157	5785	5.55	0.42	5.97	30	PASS
165	5825	5.67	0.42	6.09	30	PASS

802.11n (20MHz)

Channel	Freq. (MHz)	PSD (dBm/500kHz)	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
149	5745	5.62	0.42	6.04	30	PASS
157	5785	5.46	0.42	5.88	30	PASS
165	5825	5.59	0.42	6.01	30	PASS

802.11n (40MHz)

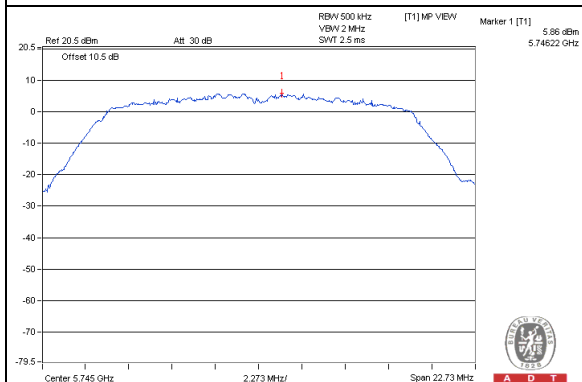
Channel	Freq. (MHz)	PSD (dBm/500kHz)	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
151	5755	2.36	1.10	3.46	30	PASS
159	5795	3.21	1.10	4.31	30	PASS

802.11ac (80MHz)

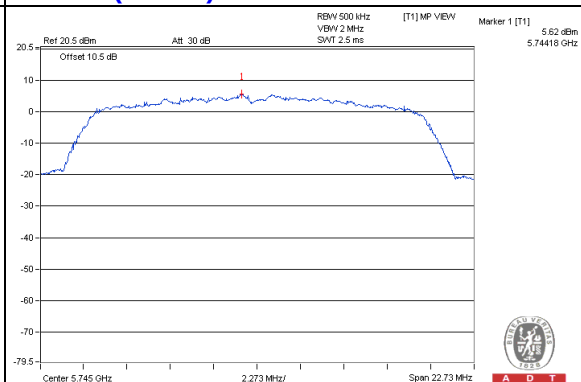
Channel	Freq. (MHz)	PSD (dBm/500kHz)	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
155	5775	-0.56	1.86	1.30	30	PASS

SPECTRUM PLOT OF WORST VALUE

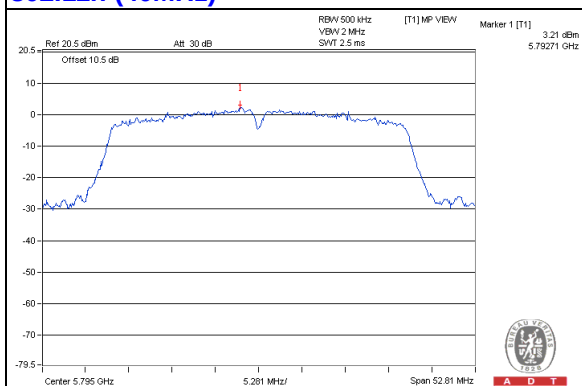
802.11a



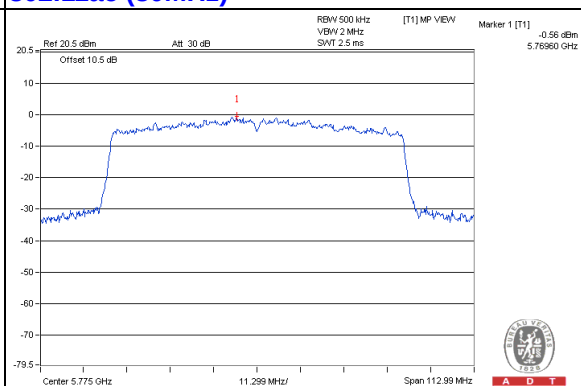
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

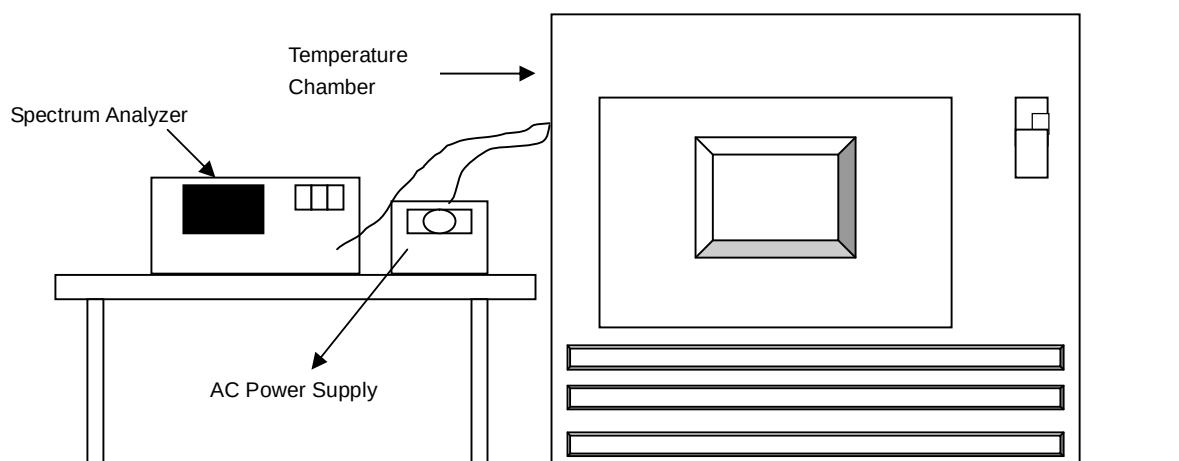


4.5 Frequency Stability Measurement

4.5.1 Limits of Frequency Stability Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- 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.
- Repeat step b and c with the temperature chamber set to the lowest temperature.
- 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.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

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

4.5.7 Test Results

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	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 (%)
55	120	5180.043015	8.3040541	5180.042564	8.2169884	5180.042825	8.2673745	5180.04285	8.2722008
50	120	5180.043015	8.3040541	5180.042564	8.2169884	5180.042825	8.2673745	5180.04285	8.2722008
40	120	5180.04286	8.2741313	5180.042779	8.2584942	5180.042719	8.2469112	5180.043147	8.3295367
30	120	5180.042179	8.1426641	5180.042465	8.1978764	5180.042606	8.2250965	5180.042153	8.1376448
20	120	5180.043053	8.3113900	5180.043264	8.3521236	5180.042788	8.2602317	5180.042909	8.2835907
10	120	5180.042774	8.2575290	5180.043306	8.3602317	5180.043128	8.3258687	5180.042831	8.2685328
0	120	5180.042949	8.2913127	5180.042663	8.2361004	5180.042976	8.2965251	5180.042886	8.2791506
-10	120	5180.042829	8.2681467	5180.042809	8.2642857	5180.042960	8.2934363	5180.043002	8.3015444
-20	120	5180.042911	8.2839768	5180.042705	8.2442085	5180.042861	8.2743243	5180.043247	8.3488417

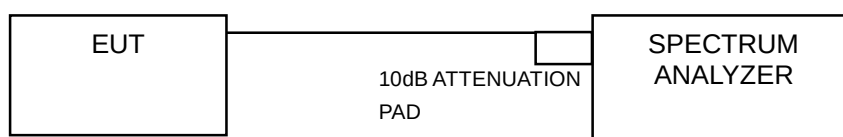
FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5180.04281	8.2644788	5180.04263	8.2297297	5180.042872	8.2764479	5180.042794	8.2613900
	120	5180.043053	8.3113900	5180.043264	8.3521236	5180.042788	8.2602317	5180.042909	8.2835907
	102	5180.043019	8.3048263	5180.042858	8.2737452	5180.043091	8.3187259	5180.042953	8.2920849

4.6 6dB Bandwidth Measurement

4.6.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.6.7 Test Results

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHZ)	MINIMUM LIMIT (MHZ)	PASS / FAIL
149	5745	15.16	0.5	PASS
157	5785	15.17	0.5	PASS
165	5825	15.15	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHZ)	MINIMUM LIMIT (MHZ)	PASS / FAIL
149	5745	15.15	0.5	PASS
157	5785	15.18	0.5	PASS
165	5825	15.13	0.5	PASS

802.11n (40MHz)

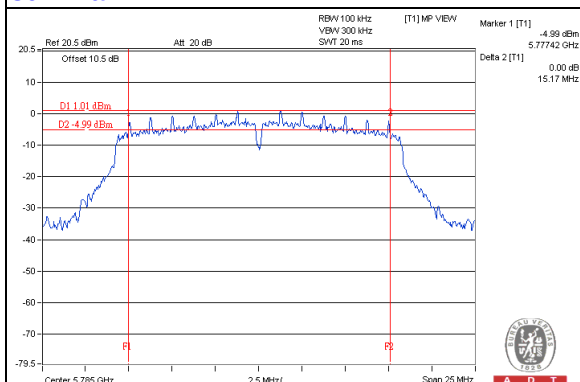
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHZ)	MINIMUM LIMIT (MHZ)	PASS / FAIL
151	5755	35.16	0.5	PASS
159	5795	35.21	0.5	PASS

802.11ac (80MHz)

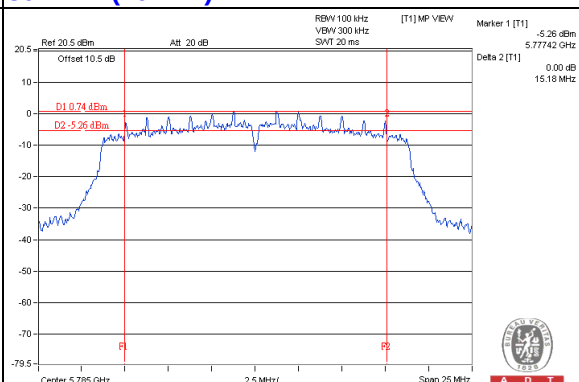
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHZ)	MINIMUM LIMIT (MHZ)	PASS / FAIL
155	5775	75.33	0.5	PASS

SPECTRUM PLOT OF WORST VALUE

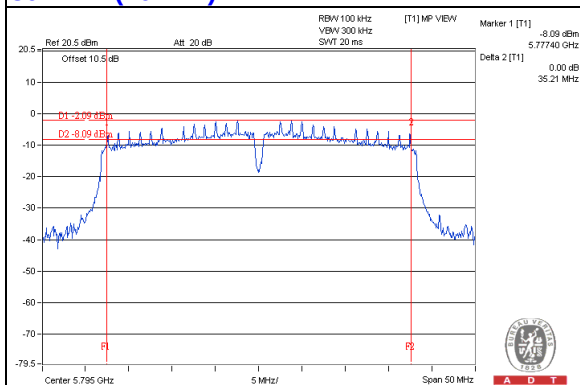
802.11a



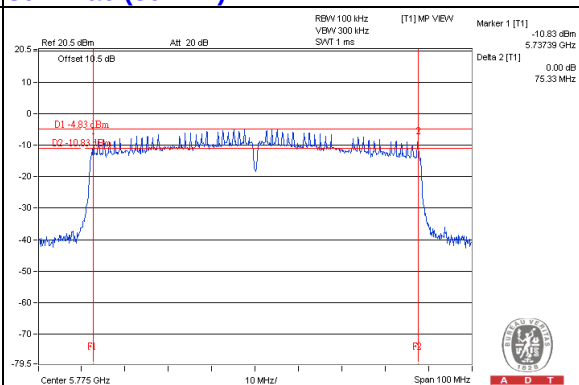
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

Hsin Chu EMC/RF Lab/Telecom Lab

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Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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