

FCC Test Report

Report No.: RF150507D03-1

FCC ID: PD5-RV134W

Test Model: RV134W

Received Date: May 7, 2015

Test Date: May 21 ~ Jun. 10, 2015

Issued Date: Jul. 8, 2015

Applicant: Delta Networks, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Release Control Record

Issue No.	Description	Date Issued
RF150507D03-1	Original release.	Jul. 8, 2015

1 Certificate of Conformity

Product: Wireless-AC VPN Router

Brand: CISCO

Test Model: RV134W

Sample Status: Engineering sample

Applicant: Delta Networks, Inc.

Test Date: May 21 ~ Jun. 10, 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:** Jul. 8, 2015
Jessica Cheng / Senior Specialist

Approved by : Rex Lai , **Date:** Jul. 8, 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 -16.62dB at 0.15000MHz.
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 5725.00 & 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	1GHz ~ 40GHz	3.36 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wireless-AC VPN Router
Brand	CISCO
Test Model	RV134W
Status of EUT	Engineering sample
Power Supply Rating	12Vdc 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 300Mbps 802.11ac: up to 866Mbps
Operating Frequency	5180 ~ 5240MHz 5260 ~ 5320MHz 5500 ~ 5700MHz 5745 ~ 5825MHz
Number of Channel	5180 ~ 5240MHz, 5260 ~ 5320MHz 8 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 4 for 802.11n (HT40), 802.11ac (VHT40) 2 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 49.836 mW 5260 ~ 5320MHz 249.773 mW 5500 ~ 5700MHz 227.024mW 5745 ~ 5825MHz 228.071mW
Antenna Type	Printed antenna with 3.91dBi gain
Antenna Connector	N/A
Accessory Device	Adapter, Stand
Data Cable Supplied	Non-shielded RJ 45 cable (1.5 m) , Non-shielded RJ11 cable (1.7 m), Non-shielded console cable (1.7 m)

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ac (VHT80)	2TX

* 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	DVE
Model	DSA-36PFH-12 FUS 120250AN
AC Input Power	100-240V, 50-60Hz, 1A
DC Output Power	+12V, 2.5A
Power Line	AC 2-Pin, Non-Shielded DC cable (1.5m)

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 channel is 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

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 (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
-	802.11n (HT40)		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 (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
-	802.11n (HT40)		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 (HT20)		100 to 140	100, 116, 132, 140	OFDM	BPSK	6.5
-	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
-	802.11ac (80MHz)		122,106	122,106	OFDM	BPSK	29.3
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
-	802.11n (HT40)		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 (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
-	802.11n (HT40)		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 (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
-	802.11n (HT40)		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 (HT20)		100 to 140	100, 116, 132, 140	OFDM	BPSK	6.5
-	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
-	802.11ac (80MHz)		122,106	122,106	OFDM	BPSK	29.3
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
-	802.11n (HT40)		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	25deg. C, 79%RH	120Vac, 60Hz	Aaron You
RE<1G	25deg. C, 79%RH	120Vac, 60Hz	Aaron You
PLC	25deg. C, 73%RH	120Vac, 60Hz	Dalen Dai
APCM	25deg. C, 60%RH	120Vac, 60Hz	Saxon Lee

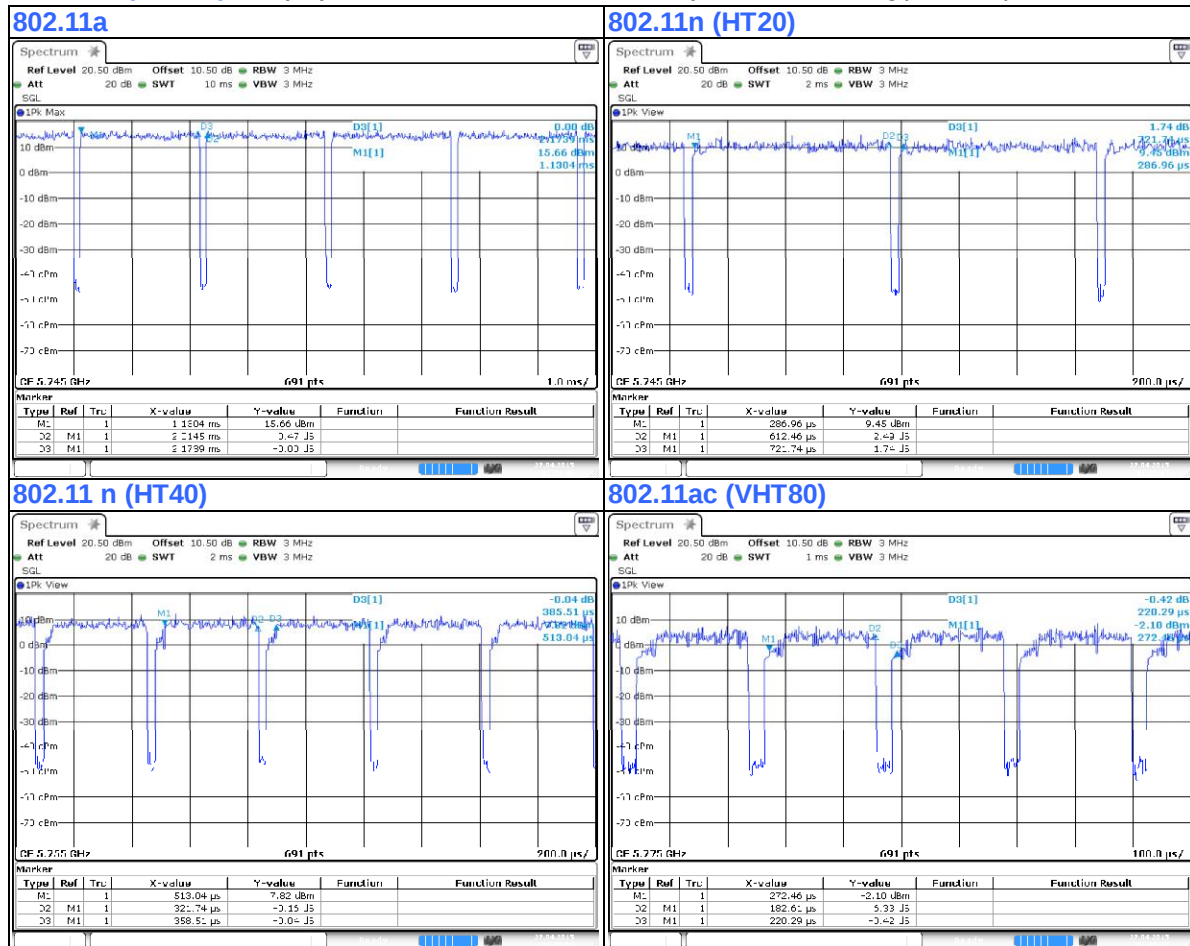
3.3 Duty Cycle of Test Signal

802.11a: Duty cycle = $2.029/2.173 = 0.934$, Duty factor = $10 * \log(1/0.934) = 0.30$

802.11n (HT40): Duty cycle = $1.884/2.043 = 0.922$, Duty factor = $10 * \log(1/0.922) = 0.35$

802.11n (HT40): Duty cycle = $0.891/1.043 = 0.854$, Duty factor = $10 * \log(1/0.854) = 0.68$

802.11ac (VHT80): Duty cycle = $0.421/0.494 = 0.852$, Duty factor = $10 * \log(1/0.852) = 0.69$



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.	EUT	CISCO	RV134W	-	-	-
B.	Adapter	DVE	DSA-36PFH-12 FUS 120250AN	N/A	FCC DoC Approved	Supplied by client
C.	NOTEBOOK COMPUTER	DELL	PP27L	8SNZ12S	FCC DoC Approved	Provided by Lab
D.	LOAD	N/A	N/A	N/A	N/A	Provided by Lab
E.	LOAD	N/A	N/A	N/A	N/A	Provided by Lab
F.	USB 3.0 Hard Disk	WD	WDBACY5000ABL-PES N	WX81E81SKT67	FCC DoC Approved	Provided by Lab

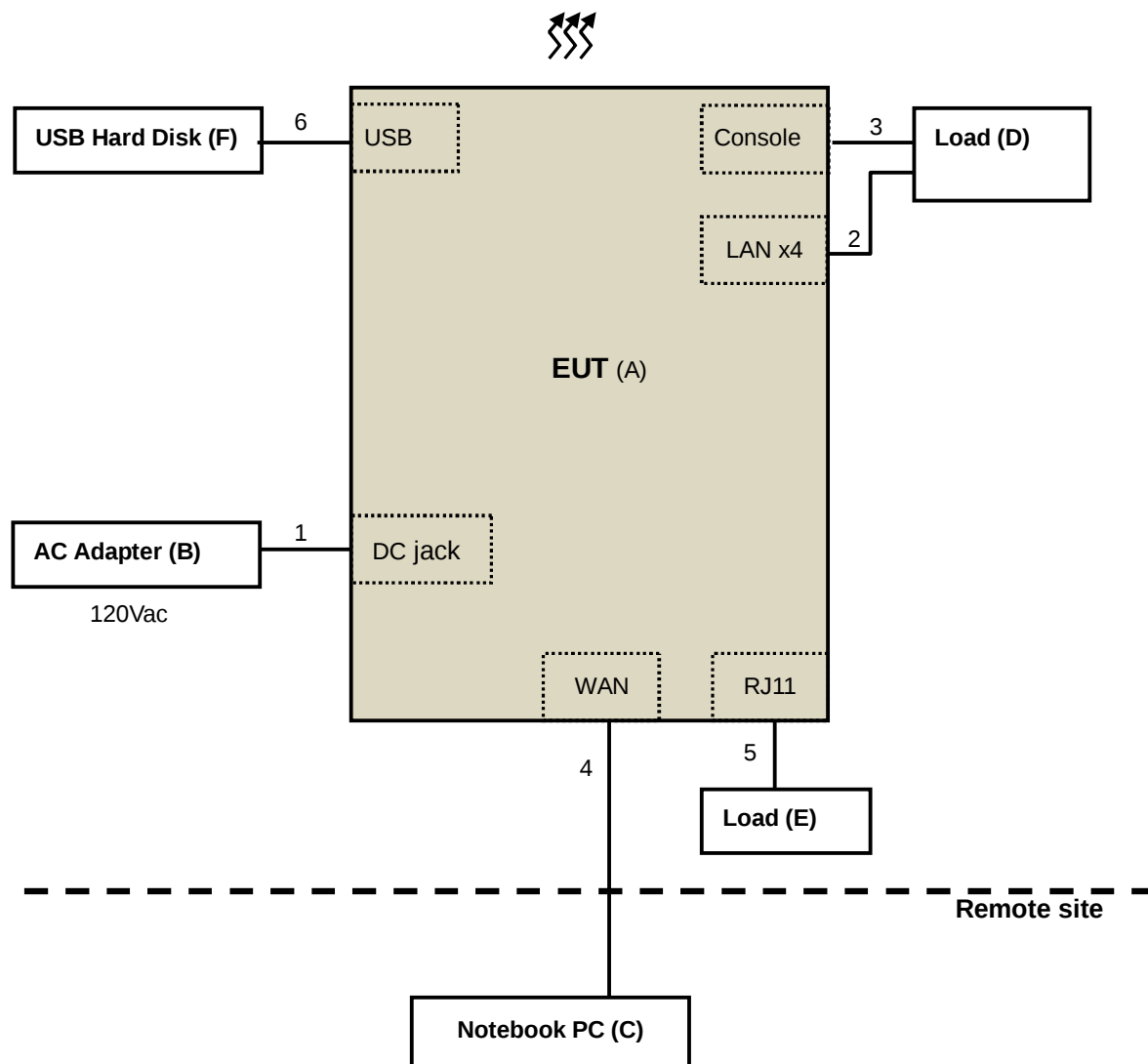
Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC cable	1	1.5	N	0	Supplied by client
2.	LAN cable	4	1.8	N	0	Provided by Lab
3.	LAN cable	1	1.8	N	0	Provided by Lab
4.	LAN cable	1	10	N	0	Provided by Lab
5.	RJ11 cable	1	1.8	N	0	Provided by Lab
6.	USB cable	1	0.3	Y	0	Provided by Lab

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

3.4.1 Configuration of System under Test



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

662911 D01 Multiple Transmitter Output v02r01

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:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 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 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	ADT_Radiated_V7. 6.15.9.4	NA	NA	NA
SUHNER RF cable	SF104	CABLE-CH6	Aug. 15, 2014	Aug. 14, 2015
SUHNER RF cable	SF102	Cable-CH8-3.6m	Aug. 15, 2014	Aug. 14, 2015
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. 29, 2014	Sep. 28, 2015
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:

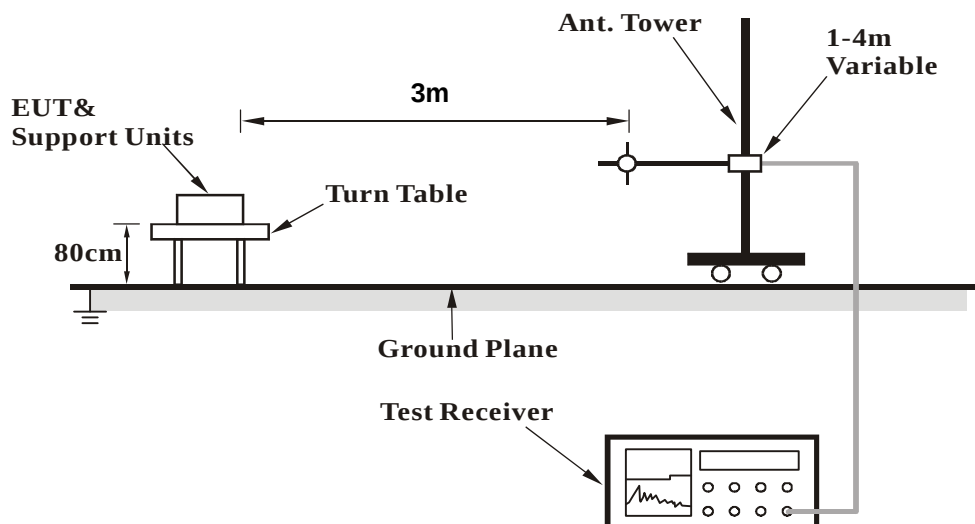
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

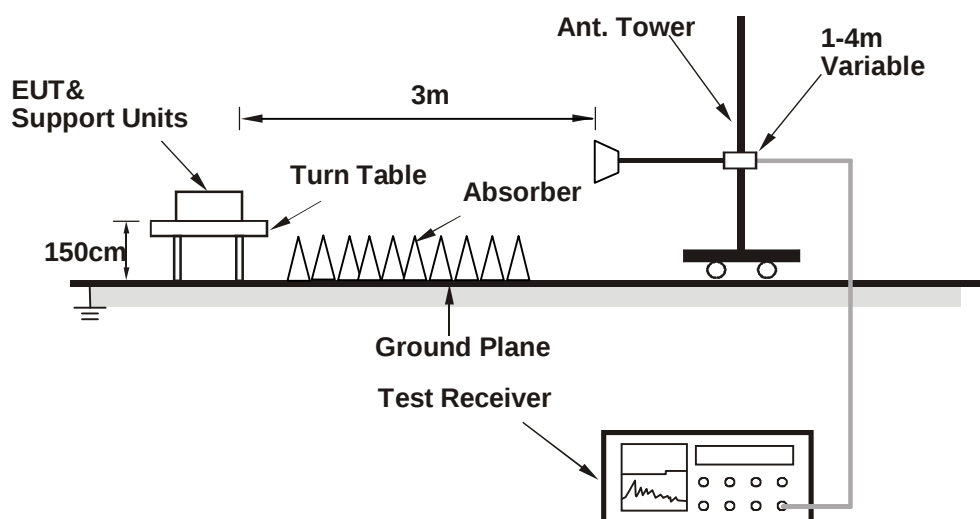
No deviation.

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

- a. Placed the EUT on the testing table.
- b. Prepared notebook to act as communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The communication partner sent data to EUT by command "PING".
- e. The necessary accessories enable the system in full functions.

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	89.85	28.5 QP	43.5	-15.0	4.00 H	233	47.85	-19.35
2	201.54	35.8 QP	43.5	-7.7	4.00 H	254	52.14	-16.30
3	324.54	29.6 QP	46.0	-16.4	3.11 H	111	41.30	-11.68
4	574.75	29.6 QP	46.0	-16.4	2.20 H	171	36.78	-7.16
5	799.99	32.7 QP	46.0	-13.3	1.24 H	263	35.77	-3.04
6	875.06	37.8 QP	46.0	-8.2	1.00 H	256	39.88	-2.07
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	34.27	36.0 QP	40.0	-4.0	1.34 V	226	51.37	-15.35
2	53.23	36.9 QP	40.0	-3.2	1.22 V	243	50.54	-13.69
3	201.40	35.0 QP	43.5	-8.5	1.00 V	298	51.28	-16.30
4	326.38	31.0 QP	46.0	-15.0	1.00 V	0	42.66	-11.67
5	625.07	30.6 QP	46.0	-15.4	2.51 V	160	36.57	-5.94
6	896.84	37.6 QP	46.0	-8.4	2.34 V	248	39.41	-1.85

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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	56.9 PK	74.0	-17.1	1.00 H	92	53.27	3.60
2	5150.00	44.3 AV	54.0	-9.8	1.00 H	92	40.65	3.60
3	*5180.00	98.5 PK			1.00 H	92	94.92	3.62
4	*5180.00	88.9 AV			1.00 H	92	85.31	3.62
5	#6906.66	51.9 PK	68.2	-16.3	1.00 H	268	44.16	7.76
6	#10360.00	54.7 PK	74.0	-19.3	1.00 H	143	41.82	12.90
7	#10360.00	42.2 AV	54.0	-11.8	1.00 H	143	29.34	12.90
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	66.0 PK	74.0	-8.0	1.87 V	344	62.38	3.60
2	5150.00	47.4 AV	54.0	-6.6	1.87 V	344	43.79	3.60
3	*5180.00	109.4 PK			1.87 V	344	105.76	3.62
4	*5180.00	99.8 AV			1.87 V	344	96.17	3.62
5	#6906.66	56.0 PK	68.2	-12.2	1.26 V	105	48.22	7.76
6	#10360.00	55.4 PK	74.0	-18.6	1.06 V	317	42.49	12.90
7	#10360.00	43.5 AV	54.0	-10.5	1.06 V	317	30.63	12.90

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 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	98.4 PK			1.00 H	108	94.77	3.63
2	*5200.00	88.9 AV			1.00 H	108	85.27	3.63
3	#6933.33	53.0 PK	68.2	-15.2	1.00 H	251	45.08	7.87
4	#10400.00	54.6 PK	74.0	-19.4	1.00 H	139	41.63	13.01
5	#10400.00	42.5 AV	54.0	-11.5	1.00 H	139	29.45	13.01
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.1 PK			1.71 V	341	105.49	3.63
2	*5200.00	99.6 AV			1.71 V	341	95.99	3.63
3	#6933.33	56.9 PK	68.2	-11.3	1.22 V	109	49.06	7.87
4	#10400.00	55.5 PK	74.0	-18.5	1.01 V	332	42.52	13.01
5	#10400.00	43.5 AV	54.0	-10.5	1.01 V	332	30.49	13.01

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 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	98.5 PK			1.06 H	103	94.79	3.72
2	*5240.00	88.9 AV			1.06 H	103	85.20	3.72
3	5350.00	57.4 PK	74.0	-16.6	1.06 H	103	53.51	3.92
4	5350.00	44.2 AV	54.0	-9.8	1.06 H	103	40.29	3.92
5	#6986.66	52.6 PK	68.2	-15.6	1.00 H	257	44.52	8.04
6	#10480.00	54.8 PK	74.0	-19.3	1.00 H	125	41.56	13.19
7	#10480.00	42.6 AV	54.0	-11.4	1.00 H	125	29.40	13.19
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	109.2 PK			1.85 V	334	105.49	3.72
2	*5240.00	99.5 AV			1.85 V	334	95.76	3.72
3	5350.00	59.2 PK	74.0	-14.8	1.85 V	334	55.27	3.92
4	5350.00	46.8 AV	54.0	-7.2	1.85 V	334	42.92	3.92
5	#6986.66	56.7 PK	68.2	-11.5	1.26 V	137	48.62	8.04
6	#10480.00	55.5 PK	74.0	-18.5	1.08 V	327	42.33	13.19
7	#10480.00	43.6 AV	54.0	-10.4	1.08 V	327	30.42	13.19

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	55.8 PK	74.0	-18.2	1.74 H	330	52.24	3.60
2	5150.00	43.9 AV	54.0	-10.1	1.74 H	330	40.31	3.60
3	*5260.00	102.5 PK			1.74 H	330	98.77	3.76
4	*5260.00	93.1 AV			1.74 H	330	89.35	3.76
5	#7013.33	49.8 PK	68.2	-18.4	1.11 H	120	41.69	8.13
6	#10520.00	54.5 PK	74.0	-19.5	1.00 H	183	41.26	13.24
7	#10520.00	43.2 AV	54.0	-10.8	1.00 H	183	29.95	13.24
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	60.8 PK	74.0	-13.2	1.85 V	78	57.19	3.60
2	5150.00	49.8 AV	54.0	-4.2	1.85 V	78	46.16	3.60
3	*5260.00	113.3 PK			1.85 V	78	109.51	3.76
4	*5260.00	103.9 AV			1.85 V	78	100.11	3.76
5	#7013.33	53.6 PK	68.2	-14.6	1.26 V	314	45.42	8.13
6	#10520.00	57.1 PK	74.0	-16.9	1.14 V	330	43.87	13.24
7	#10520.00	44.7 AV	54.0	-9.3	1.14 V	330	31.45	13.24

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	103.7 PK			1.74 H	330	99.84	3.85
2	*5300.00	94.2 AV			1.74 H	330	90.33	3.85
3	#7066.66	48.7 PK	68.2	-19.5	1.10 H	120	40.45	8.28
4	10600.00	55.2 PK	74.0	-18.8	1.00 H	180	41.89	13.30
5	10600.00	43.1 AV	54.0	-10.9	1.00 H	180	29.80	13.30
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	113.6 PK			1.60 V	66	109.73	3.85
2	*5300.00	104.0 AV			1.60 V	66	100.15	3.85
3	#7066.66	52.6 PK	68.2	-15.6	1.15 V	311	44.31	8.28
4	10600.00	57.3 PK	74.0	-16.7	1.12 V	328	43.98	13.30
5	10600.00	44.3 AV	54.0	-9.7	1.12 V	328	30.96	13.30

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 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	100.3 PK			1.58 H	325	96.38	3.88
2	*5320.00	91.1 AV			1.58 H	325	87.23	3.88
3	5350.00	60.3 PK	74.0	-13.7	1.58 H	325	56.40	3.92
4	5350.00	46.7 AV	54.0	-7.3	1.58 H	325	42.77	3.92
5	#7093.33	49.4 PK	68.2	-18.8	1.10 H	119	41.00	8.36
6	10640.00	54.9 PK	74.0	-19.1	1.00 H	179	41.61	13.30
7	10640.00	43.1 AV	54.0	-10.9	1.00 H	179	29.80	13.30
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	110.7 PK			1.74 V	76	106.77	3.88
2	*5320.00	101.4 AV			1.74 V	76	97.51	3.88
3	5350.00	70.8 PK	74.0	-3.3	1.74 V	76	66.83	3.92
4	5350.00	52.8 AV	54.0	-1.2	1.74 V	76	48.87	3.92
5	#7093.33	52.1 PK	68.2	-16.1	1.77 V	313	43.70	8.36
6	10640.00	57.2 PK	74.0	-16.8	1.20 V	309	43.86	13.30
7	10640.00	44.4 AV	54.0	-9.7	1.20 V	309	31.05	13.30

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 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	56.5 PK	74.0	-17.5	1.48 H	126	52.22	4.27
2	5460.00	43.8 AV	54.0	-10.2	1.48 H	126	39.52	4.27
3	#5470.00	60.7 PK	68.2	-7.5	1.48 H	126	56.35	4.33
4	*5500.00	102.2 PK			1.48 H	126	97.74	4.46
5	*5500.00	92.8 AV			1.48 H	126	88.34	4.46
6	7333.33	49.2 PK	74.0	-24.8	1.12 H	133	40.16	9.04
7	7333.33	40.6 AV	54.0	-13.5	1.12 H	133	31.51	9.04
8	11000.00	55.6 PK	74.0	-18.5	1.00 H	154	41.25	14.30
9	11000.00	43.0 AV	54.0	-11.0	1.00 H	154	28.73	14.30
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	65.0 PK	74.0	-9.0	1.87 V	151	60.74	4.27
2	5460.00	47.1 AV	54.0	-6.9	1.87 V	151	42.82	4.27
3	#5470.00	66.7 PK	68.2	-1.5	1.87 V	151	62.38	4.33
4	*5500.00	111.4 PK			1.87 V	151	106.98	4.46
5	*5500.00	102.6 AV			1.87 V	151	98.13	4.46
6	7333.33	50.9 PK	74.0	-23.1	1.54 V	140	41.83	9.04
7	7333.33	47.1 AV	54.0	-6.9	1.54 V	140	38.05	9.04
8	11000.00	57.4 PK	74.0	-16.6	1.20 V	298	43.11	14.30
9	11000.00	45.2 AV	54.0	-8.8	1.20 V	298	30.86	14.30

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	105.4 PK			1.52 H	117	100.82	4.54
2	*5580.00	95.4 AV			1.52 H	117	90.88	4.54
3	7440.00	49.8 PK	74.0	-24.2	1.00 H	133	40.76	9.02
4	7440.00	38.1 AV	54.0	-15.9	1.00 H	133	29.05	9.02
5	11160.00	55.7 PK	74.0	-18.3	1.00 H	150	41.83	13.88
6	11160.00	43.7 AV	54.0	-10.4	1.00 H	150	29.77	13.88
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	*5580.00	112.8 PK			1.91 V	146	108.29	4.54
2	*5580.00	103.0 AV			1.91 V	146	98.42	4.54
3	7440.00	51.7 PK	74.0	-22.3	1.63 V	142	42.67	9.02
4	7440.00	42.8 AV	54.0	-11.2	1.63 V	142	33.76	9.02
5	11160.00	57.8 PK	74.0	-16.3	1.19 V	288	43.87	13.88
6	11160.00	45.4 AV	54.0	-8.6	1.19 V	288	31.52	13.88

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	104.8 PK			1.37 H	118	100.26	4.56
2	*5660.00	95.1 AV			1.37 H	118	90.54	4.56
3	7546.66	50.4 PK	74.0	-23.6	1.00 H	172	41.28	9.11
4	7546.66	37.4 AV	54.0	-16.6	1.00 H	172	28.29	9.11
5	11320.00	55.9 PK	74.0	-18.1	1.00 H	162	41.70	14.17
6	11320.00	43.5 AV	54.0	-10.5	1.00 H	162	29.34	14.17
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	112.7 PK			1.96 V	145	108.10	4.56
2	*5660.00	102.5 AV			1.96 V	145	97.91	4.56
3	7546.66	51.7 PK	74.0	-22.3	1.87 V	145	42.63	9.11
4	7546.66	41.1 AV	54.0	-12.9	1.87 V	145	32.02	9.11
5	11320.00	58.2 PK	74.0	-15.8	1.18 V	293	44.05	14.17
6	11320.00	45.5 AV	54.0	-8.6	1.18 V	293	31.28	14.17

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	100.4 PK			1.28 H	120	95.81	4.58
2	*5700.00	91.5 AV			1.28 H	120	86.90	4.58
3	#5725.00	58.0 PK	68.2	-10.2	1.28 H	120	53.43	4.61
4	7600.00	49.3 PK	74.0	-24.7	1.08 H	183	40.32	8.98
5	7600.00	36.8 AV	54.0	-17.2	1.08 H	183	27.85	8.98
6	11400.00	55.2 PK	74.0	-18.8	1.00 H	146	41.23	13.99
7	11400.00	42.6 AV	54.0	-11.4	1.00 H	146	28.60	13.99
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	107.8 PK			1.86 V	141	103.23	4.58
2	*5700.00	98.7 AV			1.86 V	141	94.13	4.58
3	#5725.00	66.7 PK	68.2	-1.5	1.86 V	141	62.06	4.61
4	7600.00	51.0 PK	74.0	-23.0	1.83 V	117	42.02	8.98
5	7600.00	40.8 AV	54.0	-13.2	1.83 V	117	31.79	8.98
6	11400.00	57.2 PK	74.0	-16.9	1.24 V	280	43.16	13.99
4	11400.00	44.8 AV	54.0	-9.2	1.24 V	280	30.85	13.99

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	#5714.90	59.7 PK	68.2	-8.5	1.19 H	119	55.13	4.61
2	#5725.00	70.7 PK	78.2	-7.5	1.19 H	119	66.07	4.61
3	*5745.00	102.0 PK			1.19 H	119	97.31	4.66
4	*5745.00	91.8 AV			1.19 H	119	87.13	4.66
5	7660.00	49.3 PK	74.0	-24.7	1.08 H	149	40.16	9.14
6	7660.00	37.3 AV	54.0	-16.7	1.08 H	149	28.20	9.14
7	11490.00	55.1 PK	74.0	-19.0	1.00 H	134	41.39	13.66
8	11490.00	42.5 AV	54.0	-11.5	1.00 H	134	28.84	13.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.90	65.8 PK	68.2	-2.4	1.91 V	125	61.22	4.61
2	#5725.00	77.1 PK	78.2	-1.1	1.91 V	125	72.53	4.61
3	*5745.00	109.7 PK			1.91 V	125	105.06	4.66
4	*5745.00	99.8 AV			1.91 V	125	95.15	4.66
5	7660.00	49.9 PK	74.0	-24.1	1.78 V	170	40.78	9.14
6	7660.00	38.5 AV	54.0	-15.5	1.78 V	170	29.40	9.14
7	11490.00	56.6 PK	74.0	-17.4	1.27 V	264	42.96	13.66
8	11490.00	44.4 AV	54.0	-9.6	1.27 V	264	30.71	13.66

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	106.0 PK			1.26 H	120	101.28	4.72
2	*5785.00	96.1 AV			1.26 H	120	91.34	4.72
3	7713.33	50.0 PK	74.0	-24.0	1.10 H	142	40.76	9.27
4	7713.33	38.1 AV	54.0	-15.9	1.10 H	142	28.81	9.27
5	11570.00	56.0 PK	74.0	-18.0	1.00 H	156	42.07	13.90
6	11570.00	43.3 AV	54.0	-10.7	1.00 H	156	29.41	13.90
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	*5785.00	115.5 PK			1.88 V	127	110.82	4.72
2	*5785.00	105.7 AV			1.88 V	127	100.96	4.72
3	7713.33	50.6 PK	74.0	-23.4	1.69 V	185	41.29	9.27
4	7713.33	38.9 AV	54.0	-15.2	1.69 V	185	29.58	9.27
5	11570.00	57.8 PK	74.0	-16.2	1.22 V	271	43.92	13.90
6	11570.00	45.9 AV	54.0	-8.2	1.22 V	271	31.95	13.90

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.

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	103.3 PK			1.17 H	132	98.51	4.79
2	*5825.00	93.5 AV			1.17 H	132	88.74	4.79
3	#5850.00	69.7 PK	78.2	-8.5	1.17 H	132	64.92	4.80
4	#5860.10	59.2 PK	68.2	-9.0	1.17 H	132	54.35	4.82
5	#7766.66	49.7 PK	74.0	-24.4	1.06 H	137	40.37	9.28
6	#7766.66	37.7 AV	54.0	-16.3	1.06 H	137	28.40	9.28
7	11650.00	55.2 PK	74.0	-18.8	1.00 H	145	41.61	13.56
8	11650.00	42.6 AV	54.0	-11.4	1.00 H	145	29.07	13.56
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	112.4 PK			1.93 V	124	107.59	4.79
2	*5825.00	102.5 AV			1.93 V	124	97.71	4.79
3	#5850.00	76.9 PK	78.2	-1.3	1.93 V	124	72.06	4.80
4	#5860.10	64.4 PK	68.2	-3.8	1.93 V	124	59.58	4.82
5	#7766.66	50.3 PK	74.0	-23.7	1.73 V	180	41.06	9.28
6	#7766.66	39.1 AV	54.0	-14.9	1.73 V	180	29.84	9.28
7	11650.00	57.1 PK	74.0	-16.9	1.29 V	288	43.52	13.56
8	11650.00	44.8 AV	54.0	-9.2	1.29 V	288	31.27	13.56

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	56.7 PK	74.0	-17.3	1.48 H	324	53.10	3.60
2	5150.00	43.8 AV	54.0	-10.2	1.48 H	324	40.23	3.60
3	*5180.00	99.1 PK			1.48 H	324	95.45	3.62
4	*5180.00	88.3 AV			1.48 H	324	84.67	3.62
5	#6909.00	50.6 PK	68.2	-17.6	1.00 H	273	42.86	7.77
6	#10360.00	54.5 PK	74.0	-19.5	1.00 H	150	41.62	12.90
7	#10360.00	42.6 AV	54.0	-11.4	1.00 H	150	29.71	12.90

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	61.4 PK	74.0	-12.6	1.86 V	337	57.76	3.60
2	5150.00	46.8 AV	54.0	-7.2	1.86 V	337	43.20	3.60
3	*5180.00	108.3 PK			1.86 V	337	104.66	3.62
4	*5180.00	96.2 AV			1.86 V	337	92.57	3.62
5	#6906.66	56.7 PK	68.2	-11.5	1.69 V	134	48.98	7.76
6	#10360.00	56.4 PK	74.0	-17.6	1.05 V	320	43.48	12.90
7	#10360.00	42.9 AV	54.0	-11.1	1.05 V	320	30.02	12.90

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 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	96.9 PK			1.43 H	331	93.26	3.63
2	*5200.00	86.4 AV			1.43 H	331	82.73	3.63
3	#6933.33	50.1 PK	68.2	-18.1	1.08 H	279	42.21	7.87
4	#10400.00	54.2 PK	74.0	-19.8	1.00 H	147	41.18	13.01
5	#10400.00	42.9 AV	54.0	-11.1	1.00 H	147	29.88	13.01
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	107.0 PK			1.87 V	333	103.32	3.63
2	*5200.00	95.1 AV			1.87 V	333	91.45	3.63
3	#6933.33	54.9 PK	68.2	-13.3	1.79 V	136	46.99	7.87
4	#10400.00	55.8 PK	74.0	-18.2	1.03 V	317	42.81	13.01
5	#10400.00	43.1 AV	54.0	-10.9	1.03 V	317	30.08	13.01

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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	98.7 PK			1.00 H	329	95.00	3.72
2	*5240.00	87.9 AV			1.00 H	329	84.22	3.72
3	5350.00	56.0 PK	74.0	-18.0	1.63 H	329	52.05	3.92
4	5350.00	42.7 AV	54.0	-11.3	1.63 H	329	38.77	3.92
5	#6986.66	50.6 PK	68.2	-17.6	1.01 H	118	42.52	8.04
6	#10480.00	54.4 PK	74.0	-19.6	1.00 H	148	41.20	13.19
7	#10480.00	42.9 AV	54.0	-11.1	1.00 H	148	29.67	13.19
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	106.9 PK			2.01 V	326	103.15	3.72
2	*5240.00	94.9 AV			2.01 V	326	91.22	3.72
3	5350.00	56.6 PK	74.0	-17.4	2.01 V	326	52.71	3.92
4	5350.00	44.5 AV	54.0	-9.6	2.01 V	326	40.53	3.92
5	#6986.66	54.2 PK	68.2	-14.0	1.72 V	134	46.19	8.04
6	#10480.00	56.2 PK	74.0	-17.8	1.00 V	311	43.01	13.19
7	#10480.00	43.4 AV	54.0	-10.6	1.00 V	311	30.25	13.19

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	56.0 PK	74.0	-18.0	1.46 H	326	52.43	3.60
2	5150.00	43.8 AV	54.0	-10.2	1.46 H	326	40.17	3.60
3	*5260.00	103.6 PK			1.46 H	326	99.85	3.76
4	*5260.00	92.6 AV			1.46 H	326	88.83	3.76
5	#7013.33	49.8 PK	68.2	-18.4	1.11 H	120	41.66	8.13
6	#10520.00	55.4 PK	74.0	-18.7	1.00 H	174	42.11	13.24
7	#10520.00	43.2 AV	54.0	-10.8	1.00 H	174	29.98	13.24
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	59.1 PK	74.0	-14.9	1.46 V	75	55.49	3.60
2	5150.00	46.5 AV	54.0	-7.5	1.46 V	75	42.92	3.60
3	*5260.00	113.1 PK			1.46 V	75	109.33	3.76
4	*5260.00	100.7 AV			1.46 V	75	96.94	3.76
5	#7013.33	53.6 PK	68.2	-14.6	1.96 V	314	45.49	8.13
6	#10520.00	57.8 PK	74.0	-16.2	1.15 V	332	44.58	13.24
7	#10520.00	44.3 AV	54.0	-9.7	1.15 V	332	31.06	13.24

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	103.7 PK			1.59 H	326	99.89	3.85
2	*5300.00	92.3 AV			1.59 H	326	88.44	3.85
3	#7066.66	48.9 PK	68.2	-19.3	1.67 H	119	40.58	8.28
4	10600.00	54.3 PK	74.0	-19.7	1.02 H	178	41.02	13.30
5	10600.00	43.3 AV	54.0	-10.8	1.02 H	178	29.95	13.30
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	111.8 PK			1.76 V	69	107.94	3.85
2	*5300.00	99.7 AV			1.76 V	69	95.87	3.85
3	#7066.66	51.9 PK	68.2	-16.3	1.24 V	312	43.58	8.28
4	10600.00	57.3 PK	74.0	-16.7	1.20 V	305	43.99	13.30
5	10600.00	45.3 AV	54.0	-8.7	1.20 V	305	32.01	13.30

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 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	101.0 PK			1.37 H	324	97.16	3.88
2	*5320.00	90.1 AV			1.37 H	324	86.22	3.88
3	5350.00	64.5 PK	74.0	-9.5	1.37 H	324	60.56	3.92
4	5350.00	46.5 AV	54.0	-7.5	1.37 H	324	42.62	3.92
5	#7093.33	48.8 PK	68.2	-19.4	1.02 H	118	40.42	8.36
6	10640.00	54.9 PK	74.0	-19.2	1.00 H	180	41.55	13.30
7	10640.00	43.2 AV	54.0	-10.9	1.00 H	180	29.85	13.30
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	109.9 PK			1.82 V	75	106.03	3.88
2	*5320.00	97.9 AV			1.82 V	75	93.99	3.88
3	5350.00	70.6 PK	74.0	-3.4	1.82 V	75	66.67	3.92
4	5350.00	52.9 AV	54.0	-1.1	1.82 V	75	48.95	3.92
5	#7093.33	52.1 PK	68.2	-16.1	1.05 V	313	43.73	8.36
6	10640.00	57.0 PK	74.0	-17.0	1.14 V	321	43.68	13.30
7	10640.00	44.4 AV	54.0	-9.6	1.14 V	321	31.09	13.30

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 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	55.6 PK	74.0	-18.4	1.56 H	123	51.33	4.27
2	5460.00	43.2 AV	54.0	-10.9	1.56 H	123	38.88	4.27
3	#5470.00	57.9 PK	68.2	-10.3	1.56 H	123	53.54	4.33
4	*5500.00	100.5 PK			1.56 H	123	96.07	4.46
5	*5500.00	89.3 AV			1.56 H	123	84.85	4.46
6	7333.33	48.1 PK	74.0	-25.9	1.11 H	133	39.08	9.04
7	7333.33	39.6 AV	54.0	-14.4	1.11 H	133	30.54	9.04
8	11000.00	55.6 PK	74.0	-18.4	1.00 H	149	41.26	14.30
9	11000.00	43.0 AV	54.0	-11.0	1.00 H	149	28.73	14.30
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	61.5 PK	74.0	-12.5	1.88 V	151	57.26	4.27
2	5460.00	46.2 AV	54.0	-7.8	1.88 V	151	41.89	4.27
3	#5470.00	67.2 PK	68.2	-1.0	1.88 V	151	62.82	4.33
4	*5500.00	109.2 PK			1.88 V	151	104.77	4.46
5	*5500.00	97.4 AV			1.88 V	151	92.97	4.46
6	7333.33	50.4 PK	74.0	-23.7	1.81 V	140	41.31	9.04
7	7333.33	46.7 AV	54.0	-7.3	1.81 V	140	37.62	9.04
8	11000.00	57.6 PK	74.0	-16.4	1.10 V	279	43.28	14.30
9	11000.00	44.6 AV	54.0	-9.5	1.10 V	279	30.25	14.30

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	105.5 PK			1.42 H	119	100.95	4.54
2	*5580.00	93.5 AV			1.42 H	119	88.91	4.54
3	7440.00	50.3 PK	74.0	-23.7	1.06 H	132	41.30	9.02
4	7440.00	38.3 AV	54.0	-15.7	1.06 H	132	29.31	9.02
5	11160.00	55.9 PK	74.0	-18.2	1.00 H	139	41.97	13.88
6	11160.00	43.7 AV	54.0	-10.3	1.00 H	139	29.81	13.88
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	*5580.00	111.3 PK			1.84 V	141	106.71	4.54
2	*5580.00	99.2 AV			1.84 V	141	94.66	4.54
3	7440.00	52.2 PK	74.0	-21.8	1.61 V	140	43.22	9.02
4	7440.00	44.0 AV	54.0	-10.0	1.61 V	140	34.96	9.02
5	11160.00	57.9 PK	74.0	-16.2	1.13 V	300	43.97	13.88
6	11160.00	45.5 AV	54.0	-8.5	1.13 V	300	31.58	13.88

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	104.9 PK			1.54 H	120	100.31	4.56
2	*5660.00	93.0 AV			1.54 H	120	88.47	4.56
3	7546.66	50.7 PK	74.0	-23.3	1.22 H	288	41.59	9.11
4	7546.66	38.3 AV	54.0	-15.8	1.22 H	288	29.14	9.11
5	11320.00	55.9 PK	74.0	-18.1	1.01 H	143	41.76	14.17
6	11320.00	44.0 AV	54.0	-10.0	1.01 H	143	29.83	14.17
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	111.6 PK			1.95 V	146	107.01	4.56
2	*5660.00	99.2 AV			1.95 V	146	94.67	4.56
3	7546.66	52.3 PK	74.0	-21.7	1.51 V	119	43.23	9.11
4	7546.66	41.8 AV	54.0	-12.2	1.51 V	119	32.65	9.11
5	11320.00	57.7 PK	74.0	-16.3	1.19 V	296	43.51	14.17
6	11320.00	45.1 AV	54.0	-8.9	1.19 V	296	30.89	14.17

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	99.1 PK			1.54 H	120	94.50	4.58
2	*5700.00	87.5 AV			1.54 H	120	82.96	4.58
3	#5725.00	57.8 PK	68.2	-10.4	1.54 H	120	53.18	4.61
4	7600.00	50.0 PK	74.0	-24.0	1.11 H	285	41.00	8.98
5	7600.00	37.6 AV	54.0	-16.4	1.11 H	285	28.60	8.98
6	11400.00	55.0 PK	74.0	-19.0	1.03 H	149	41.05	13.99
7	11400.00	42.8 AV	54.0	-11.3	1.03 H	149	28.76	13.99
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	107.2 PK			1.73 V	146	102.59	4.58
2	*5700.00	95.0 AV			1.73 V	146	90.44	4.58
3	#5725.00	67.0 PK	68.2	-1.2	1.73 V	146	62.34	4.61
4	7600.00	51.0 PK	74.0	-23.0	1.89 V	118	42.06	8.98
5	7600.00	40.8 AV	54.0	-13.2	1.89 V	118	31.79	8.98
6	11400.00	57.0 PK	74.0	-17.0	1.24 V	299	42.98	13.99
7	11400.00	44.2 AV	54.0	-9.8	1.24 V	299	30.24	13.99

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	#5714.90	56.9 PK	68.2	-11.3	1.21 H	115	52.33	4.61
2	#5725.00	70.0 PK	78.2	-8.2	1.21 H	115	65.41	4.61
3	*5745.00	98.2 PK			1.21 H	115	93.50	4.66
4	*5745.00	88.0 AV			1.21 H	115	83.29	4.66
5	#7760.00	49.5 PK	74.0	-24.5	1.09 H	161	40.22	9.28
6	#7760.00	37.5 AV	54.0	-16.5	1.09 H	161	28.19	9.28
7	11490.00	54.4 PK	74.0	-19.6	1.00 H	94	40.78	13.66
8	11490.00	42.2 AV	54.0	-11.8	1.00 H	94	28.51	13.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.90	61.5 PK	68.2	-6.7	1.95 V	127	56.87	4.61
2	#5725.00	77.1 PK	78.2	-1.1	1.95 V	127	72.44	4.61
3	*5745.00	106.4 PK			1.95 V	127	101.73	4.66
4	*5745.00	96.2 AV			1.95 V	127	91.56	4.66
5	7660.00	49.8 PK	74.0	-24.2	1.67 V	184	40.65	9.14
6	7660.00	38.5 AV	54.0	-15.6	1.67 V	184	29.31	9.14
7	11490.00	55.9 PK	74.0	-18.1	1.23 V	291	42.26	13.66
8	11490.00	43.6 AV	54.0	-10.4	1.23 V	291	29.94	13.66

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	106.3 PK			1.18 H	122	101.53	4.72
2	*5785.00	96.1 AV			1.18 H	122	91.38	4.72
3	7713.33	50.2 PK	74.0	-23.8	1.06 H	139	40.92	9.27
4	7713.33	38.0 AV	54.0	-16.0	1.06 H	139	28.74	9.27
5	11570.00	56.1 PK	74.0	-17.9	1.00 H	166	42.17	13.90
6	11570.00	43.4 AV	54.0	-10.6	1.00 H	166	29.54	13.90
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	*5785.00	114.8 PK			1.91 V	126	110.09	4.72
2	*5785.00	104.5 AV			1.91 V	126	99.81	4.72
3	7713.33	50.8 PK	74.0	-23.2	1.80 V	172	41.52	9.27
4	7713.33	39.0 AV	54.0	-15.0	1.80 V	172	29.73	9.27
5	11570.00	58.0 PK	74.0	-16.0	1.31 V	286	44.08	13.90
6	11570.00	45.7 AV	54.0	-8.3	1.31 V	286	31.79	13.90

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.

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	101.2 PK			1.19 H	128	96.43	4.79
2	*5825.00	90.9 AV			1.19 H	128	86.10	4.79
3	#5850.00	70.2 PK	78.2	-8.0	1.19 H	128	65.39	4.80
4	#5860.10	60.7 PK	68.2	-7.5	1.19 H	128	55.83	4.82
5	#7766.66	49.6 PK	74.0	-24.4	1.08 H	127	40.29	9.28
6	#7766.66	37.7 AV	54.0	-16.3	1.08 H	127	28.46	9.28
7	11650.00	55.0 PK	74.0	-19.1	1.00 H	141	41.39	13.56
8	11650.00	42.7 AV	54.0	-11.3	1.00 H	141	29.14	13.56
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	110.3 PK			1.90 V	123	105.49	4.79
2	*5825.00	99.8 AV			1.90 V	123	94.98	4.79
3	#5850.00	77.1 PK	78.2	-1.1	1.90 V	123	72.32	4.80
4	#5860.10	66.6 PK	68.2	-1.6	1.90 V	123	61.73	4.82
5	#7766.66	50.5 PK	74.0	-23.5	1.77 V	136	41.18	9.28
6	#7766.66	39.1 AV	54.0	-14.9	1.77 V	136	29.79	9.28
7	11650.00	56.5 PK	74.0	-17.5	1.26 V	277	42.98	13.56
8	11650.00	44.1 AV	54.0	-9.9	1.26 V	277	30.54	13.56

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.

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	62.8 PK	74.0	-11.2	1.48 H	328	59.19	3.60
2	5150.00	47.0 AV	54.0	-7.0	1.48 H	328	43.44	3.60
3	*5190.00	95.4 PK			1.48 H	328	91.80	3.63
4	*5190.00	85.1 AV			1.48 H	328	81.45	3.63
5	#6920.00	49.9 PK	68.2	-18.3	1.17 H	118	42.05	7.81
6	#10380.00	54.0 PK	74.0	-20.0	1.00 H	144	41.05	12.94
7	#10380.00	42.7 AV	54.0	-11.4	1.00 H	144	29.71	12.94

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.5 PK	74.0	-6.5	1.87 V	332	63.94	3.60
2	5150.00	51.7 AV	54.0	-2.3	1.87 V	332	48.11	3.60
3	*5190.00	103.9 PK			1.87 V	332	100.25	3.63
4	*5190.00	92.3 AV			1.87 V	332	88.69	3.63
5	#6920.00	54.3 PK	68.2	-13.9	1.78 V	135	46.48	7.81
6	#10380.00	55.8 PK	74.0	-18.2	1.08 V	316	42.88	12.94
7	#10380.00	43.1 AV	54.0	-10.9	1.08 V	316	30.19	12.94

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	95.6 PK			1.52 H	323	91.92	3.69
2	*5230.00	84.7 AV			1.52 H	323	81.02	3.69
3	5350.00	54.9 PK	74.0	-19.1	1.52 H	323	50.96	3.92
4	5350.00	42.8 AV	54.0	-11.2	1.52 H	323	38.92	3.92
5	#6973.33	50.3 PK	68.2	-17.9	1.01 H	117	42.32	8.00
6	#10460.00	54.2 PK	74.0	-19.8	1.00 H	152	41.02	13.14
7	#10460.00	42.7 AV	54.0	-11.3	1.00 H	152	29.55	13.14
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	103.8 PK			2.00 V	337	100.14	3.69
2	*5230.00	92.3 AV			2.00 V	337	88.57	3.69
3	5350.00	56.5 PK	74.0	-17.5	2.00 V	337	52.61	3.92
4	5350.00	44.1 AV	54.0	-9.9	2.00 V	337	40.21	3.92
5	#6973.33	54.5 PK	68.2	-13.7	1.84 V	137	46.49	8.00
6	#10460.00	56.2 PK	74.0	-17.8	1.05 V	308	43.05	13.14
7	#10460.00	43.4 AV	54.0	-10.6	1.05 V	308	30.27	13.14

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 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	57.2 PK	74.0	-16.8	1.56 H	329	53.60	3.60
2	5150.00	44.1 AV	54.0	-9.9	1.56 H	329	40.46	3.60
3	*5270.00	101.4 PK			1.56 H	329	97.63	3.79
4	*5270.00	89.6 AV			1.56 H	329	85.79	3.79
5	5350.00	61.7 PK	74.0	-12.3	1.56 H	329	57.77	3.92
6	5350.00	46.3 AV	54.0	-7.7	1.56 H	329	42.41	3.92
7	#7026.66	50.5 PK	68.2	-17.7	1.21 H	124	42.29	8.16
8	#10540.00	54.9 PK	74.0	-19.1	1.00 H	137	41.65	13.25
9	#10540.00	43.2 AV	54.0	-10.8	1.00 H	137	29.98	13.25
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.62 V	334	56.56	3.60
2	5150.00	46.8 AV	54.0	-7.2	1.62 V	334	43.16	3.60
3	*5270.00	112.1 PK			1.62 V	334	108.33	3.79
4	*5270.00	99.7 AV			1.62 V	334	95.89	3.79
5	5350.00	69.4 PK	74.0	-4.7	1.62 V	334	65.43	3.92
6	5350.00	52.8 AV	54.0	-1.2	1.62 V	334	48.84	3.92
7	#7026.66	54.8 PK	68.2	-13.4	1.73 V	137	46.63	8.16
8	#10540.00	56.4 PK	74.0	-17.6	1.05 V	332	43.18	13.25
9	#10540.00	44.8 AV	54.0	-9.2	1.05 V	332	31.52	13.25

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	95.4 PK			1.48 H	327	91.52	3.86
2	*5310.00	84.8 AV			1.48 H	327	80.98	3.86
3	5350.00	66.6 PK	74.0	-7.4	1.48 H	327	62.67	3.92
4	5350.00	47.5 AV	54.0	-6.5	1.48 H	327	43.56	3.92
5	#7080.00	49.6 PK	68.2	-18.6	1.05 H	121	41.25	8.32
6	10620.00	54.2 PK	74.0	-19.8	1.00 H	150	40.87	13.30
7	10620.00	42.8 AV	54.0	-11.2	1.00 H	150	29.50	13.30
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	104.3 PK			2.00 V	335	100.48	3.86
2	*5310.00	92.5 AV			2.00 V	335	88.61	3.86
3	5350.00	72.1 PK	74.0	-1.9	2.00 V	335	68.17	3.92
4	5350.00	52.7 AV	54.0	-1.3	2.00 V	335	48.77	3.92
5	#7080.00	53.7 PK	68.2	-14.5	1.84 V	134	45.33	8.32
6	10620.00	56.0 PK	74.0	-18.0	1.07 V	328	42.67	13.30
7	10620.00	43.4 AV	54.0	-10.6	1.07 V	328	30.11	13.30

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 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	55.4 PK	74.0	-18.6	1.55 H	122	51.16	4.27
2	5460.00	43.7 AV	54.0	-10.3	1.55 H	122	39.46	4.27
3	#5470.00	58.4 PK	68.2	-9.8	1.55 H	122	54.11	4.33
4	*5510.00	96.1 PK			1.55 H	122	91.58	4.47
5	*5510.00	84.3 AV			1.55 H	122	79.80	4.47
6	7346.66	49.3 PK	74.0	-24.7	1.00 H	134	40.32	9.01
7	7346.66	39.6 AV	54.0	-14.4	1.00 H	134	30.60	9.01
8	11020.00	54.3 PK	74.0	-19.7	1.06 H	137	40.05	14.24
9	11020.00	42.4 AV	54.0	-11.6	1.06 H	137	28.16	14.24
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	59.8 PK	74.0	-14.3	1.87 V	147	55.48	4.27
2	5460.00	46.3 AV	54.0	-7.7	1.87 V	147	42.01	4.27
3	#5470.00	66.6 PK	68.2	-1.6	1.87 V	147	62.23	4.33
4	*5510.00	103.3 PK			1.87 V	147	98.83	4.47
5	*5510.00	91.6 AV			1.87 V	147	87.13	4.47
6	7346.66	51.0 PK	74.0	-23.0	1.75 V	142	41.95	9.01
7	7346.66	45.0 AV	54.0	-9.0	1.75 V	142	36.01	9.01
8	11020.00	56.9 PK	74.0	-17.1	1.10 V	317	42.65	14.24
9	11020.00	44.3 AV	54.0	-9.7	1.10 V	317	30.06	14.24

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 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	5460.00	57.7 PK	74.0	-16.3	1.33 H	125	53.43	4.27
2	5460.00	45.5 AV	54.0	-8.6	1.33 H	125	41.18	4.27
3	#5470.00	62.8 PK	68.2	-5.4	1.33 H	125	58.47	4.33
4	*5550.00	102.3 PK			1.33 H	125	97.79	4.51
5	*5550.00	89.6 AV			1.33 H	125	85.04	4.51
6	7400.00	50.3 PK	74.0	-23.7	1.15 H	132	41.44	8.87
7	7400.00	39.0 AV	54.0	-15.0	1.15 H	132	30.14	8.87
8	11100.00	56.0 PK	74.0	-18.0	1.00 H	160	42.05	13.98
9	11100.00	43.7 AV	54.0	-10.3	1.00 H	160	29.71	13.98
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	5460.00	61.4 PK	74.0	-12.6	1.85 V	147	57.15	4.27
2	5460.00	48.9 AV	54.0	-5.1	1.85 V	147	44.63	4.27
3	#5470.00	67.1 PK	68.2	-1.1	1.85 V	147	62.75	4.33
4	*5550.00	108.5 PK			1.85 V	147	103.97	4.51
5	*5550.00	96.6 AV			1.85 V	147	92.06	4.51
6	7400.00	51.9 PK	74.0	-22.1	1.64 V	138	43.07	8.87
7	7400.00	44.5 AV	54.0	-9.5	1.64 V	138	35.64	8.87
8	11100.00	57.5 PK	74.0	-16.5	1.26 V	306	43.56	13.98
9	11100.00	45.4 AV	54.0	-8.6	1.26 V	306	31.44	13.98

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 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	98.3 PK			1.27 H	118	93.68	4.57
2	*5670.00	85.9 AV			1.27 H	118	81.29	4.57
3	#5725.00	59.2 PK	68.2	-9.0	1.27 H	118	54.61	4.61
4	7560.00	49.7 PK	74.0	-24.3	1.18 H	215	40.60	9.07
5	7560.00	37.2 AV	54.0	-16.8	1.18 H	215	28.15	9.07
6	11340.00	55.2 PK	74.0	-18.8	1.00 H	142	41.05	14.13
7	11340.00	42.5 AV	54.0	-11.5	1.00 H	142	28.37	14.13
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	*5670.00	105.9 PK			1.80 V	144	101.37	4.57
2	*5670.00	93.0 AV			1.80 V	144	88.47	4.57
3	#5725.00	67.1 PK	68.2	-1.1	1.80 V	144	62.48	4.61
4	7560.00	50.8 PK	74.0	-23.2	1.43 V	143	41.75	9.07
5	7560.00	40.5 AV	54.0	-13.5	1.43 V	143	31.39	9.07
6	11340.00	56.9 PK	74.0	-17.1	1.24 V	276	42.80	14.13
7	11340.00	44.4 AV	54.0	-9.6	1.24 V	276	30.26	14.13

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 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	#5714.90	58.9 PK	68.2	-9.3	1.19 H	129	54.33	4.61
2	#5725.00	61.1 PK	78.2	-17.1	1.19 H	129	56.49	4.61
3	*5755.00	94.6 PK			1.19 H	129	89.94	4.67
4	*5755.00	84.3 AV			1.19 H	129	79.67	4.67
5	7673.33	49.3 PK	74.0	-24.7	1.13 H	154	40.08	9.18
6	7673.33	37.5 AV	54.0	-16.5	1.13 H	154	28.31	9.18
7	11510.00	54.5 PK	74.0	-19.5	1.00 H	119	40.82	13.67
8	11510.00	42.0 AV	54.0	-12.0	1.00 H	119	28.35	13.67
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.90	66.5 PK	68.2	-1.7	1.96 V	127	61.89	4.61
2	#5725.00	70.8 PK	78.2	-7.4	1.96 V	127	66.18	4.61
3	*5755.00	101.9 PK			1.96 V	127	97.26	4.67
4	*5755.00	91.8 AV			1.96 V	127	87.15	4.67
5	7673.33	49.5 PK	74.0	-24.5	1.82 V	173	40.35	9.18
6	7673.33	38.3 AV	54.0	-15.7	1.82 V	173	29.14	9.18
7	11510.00	56.0 PK	74.0	-18.0	1.31 V	285	42.31	13.67
8	11510.00	43.5 AV	54.0	-10.5	1.31 V	285	29.81	13.67

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	96.6 PK			1.21 H	115	91.82	4.74
2	*5795.00	86.4 AV			1.21 H	115	81.66	4.74
3	#5850.00	61.2 PK	78.2	-17.0	1.21 H	115	56.38	4.80
4	#5860.10	59.1 PK	68.2	-9.1	1.21 H	115	54.27	4.82
5	7726.66	49.7 PK	74.0	-24.3	1.08 H	161	40.42	9.27
6	7726.66	38.2 AV	54.0	-15.8	1.08 H	161	28.94	9.27
7	11590.00	56.1 PK	74.0	-17.9	1.00 H	98	42.14	13.98
8	11590.00	43.5 AV	54.0	-10.5	1.00 H	98	29.51	13.98

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	*5795.00	107.4 PK			1.88 V	125	102.63	4.74
2	*5795.00	96.9 AV			1.88 V	125	92.17	4.74
3	#5850.00	71.4 PK	78.2	-6.8	1.88 V	125	66.64	4.80
4	#5860.10	66.8 PK	68.2	-1.4	1.88 V	125	61.98	4.82
5	7726.66	50.2 PK	74.0	-23.8	1.77 V	165	40.95	9.27
6	7726.66	39.5 AV	54.0	-14.6	1.77 V	165	30.18	9.27
7	11590.00	57.9 PK	74.0	-16.1	1.24 V	269	43.93	13.98
8	11590.00	45.3 AV	54.0	-8.7	1.24 V	269	31.34	13.98

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.

802.11ac (80MHz)

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	52.0 PK	74.0	-22.0	1.55 H	324	48.41	3.60
2	5150.00	48.5 AV	54.0	-5.5	1.55 H	324	44.91	3.60
3	*5210.00	92.1 PK			1.57 H	324	88.45	3.65
4	*5210.00	82.2 AV			1.57 H	324	78.50	3.65
5	5350.00	55.2 PK	74.0	-18.8	1.55 H	324	51.24	3.92
6	5350.00	43.6 AV	54.0	-10.4	1.55 H	324	39.66	3.92
7	#6946.66	49.8 PK	68.2	-18.4	1.02 H	119	41.88	7.90
8	#10420.00	54.7 PK	74.0	-19.3	1.00 H	162	41.66	13.05
9	#10420.00	42.2 AV	54.0	-11.8	1.00 H	162	29.18	13.05
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	5150.00	68.2 PK	74.0	-5.8	1.94 V	333	64.56	3.60
2	5150.00	52.5 AV	54.0	-1.5	1.94 V	333	48.94	3.60
3	*5210.00	100.5 PK			1.94 V	333	96.84	3.65
4	*5210.00	89.8 AV			1.94 V	333	86.12	3.65
5	5350.00	56.8 PK	74.0	-17.2	1.94 V	333	52.90	3.92
6	5350.00	44.4 AV	54.0	-9.7	1.94 V	333	40.43	3.92
7	#6946.66	53.3 PK	68.2	-14.9	1.79 V	134	45.39	7.90
8	#10420.00	56.2 PK	74.0	-17.8	1.04 V	330	43.17	13.05
9	#10420.00	43.3 AV	54.0	-10.7	1.04 V	330	30.25	13.05

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	56.1 PK	74.0	-17.9	1.55 H	329	52.53	3.60
2	5150.00	44.1 AV	54.0	-9.9	1.55 H	329	40.54	3.60
3	*5290.00	92.5 PK			1.55 H	329	88.66	3.83
4	*5290.00	81.7 AV			1.55 H	329	77.90	3.83
5	5350.00	63.0 PK	74.0	-11.0	1.55 H	329	59.07	3.92
6	5350.00	48.8 AV	54.0	-5.2	1.55 H	329	44.85	3.92
7	#7053.33	49.6 PK	68.2	-18.6	1.05 H	124	41.37	8.25
8	#10580.00	53.6 PK	74.0	-20.4	1.00 H	172	40.31	13.29
9	#10580.00	42.6 AV	54.0	-11.5	1.00 H	172	29.26	13.29
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	57.5 PK	74.0	-16.5	1.99 V	320	53.88	3.60
2	5150.00	44.8 AV	54.0	-9.2	1.99 V	320	41.20	3.60
3	*5290.00	100.6 PK			1.99 V	320	96.73	3.83
4	*5290.00	90.0 AV			1.99 V	320	86.18	3.83
5	5350.00	67.6 PK	74.0	-6.4	1.99 V	320	63.64	3.92
6	5350.00	52.7 AV	54.0	-1.3	1.99 V	320	48.81	3.92
7	#7053.33	52.5 PK	68.2	-15.7	1.72 V	134	44.25	8.25
8	#10580.00	56.0 PK	74.0	-18.1	1.11 V	319	42.66	13.29
9	#10580.00	43.8 AV	54.0	-10.2	1.11 V	319	30.51	13.29

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	57.6 PK	74.0	-16.4	1.57 H	119	53.31	4.27
2	5460.00	45.7 AV	54.0	-8.3	1.57 H	119	41.39	4.27
3	#5470.00	62.1 PK	68.2	-6.1	1.57 H	119	57.79	4.33
4	*5530.00	91.6 PK			1.57 H	119	87.12	4.50
5	*5530.00	81.5 AV			1.57 H	119	76.96	4.50
6	7373.33	49.1 PK	74.0	-24.9	1.64 H	131	40.18	8.94
7	7373.33	38.9 AV	54.0	-15.1	1.64 H	131	29.94	8.94
8	11060.00	55.0 PK	74.0	-19.0	1.00 H	177	40.93	14.11
9	11060.00	42.3 AV	54.0	-11.7	1.00 H	177	28.16	14.11
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	63.8 PK	74.0	-10.2	2.02 V	148	59.57	4.27
2	5460.00	50.2 AV	54.0	-3.9	2.02 V	148	45.88	4.27
3	#5470.00	67.0 PK	68.2	-1.2	2.02 V	148	62.62	4.33
4	*5530.00	99.9 PK			2.02 V	148	95.40	4.50
5	*5530.00	89.4 AV			2.02 V	148	84.91	4.50
6	7373.33	51.1 PK	74.0	-22.9	1.38 V	140	42.20	8.94
7	7373.33	45.2 AV	54.0	-8.8	1.38 V	140	36.30	8.94
8	11060.00	56.8 PK	74.0	-17.2	1.16 V	282	42.73	14.11
9	11060.00	44.4 AV	54.0	-9.6	1.16 V	282	30.26	14.11

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	96.8 PK			1.53 H	122	92.26	4.56
2	*5610.00	85.7 AV			1.53 H	122	81.17	4.56
3	#5725.00	61.1 PK	68.2	-7.1	1.53 H	122	56.53	4.61
4	7480.00	50.4 PK	74.0	-23.6	1.10 H	135	41.21	9.16
5	7480.00	38.9 AV	54.0	-15.1	1.10 H	135	29.73	9.16
6	11220.00	56.0 PK	74.0	-18.0	1.01 H	156	42.08	13.90
7	11220.00	43.3 AV	54.0	-10.7	1.01 H	156	29.37	13.90
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	*5610.00	104.6 PK			1.99 V	143	99.99	4.56
2	*5610.00	92.7 AV			1.99 V	143	88.17	4.56
3	#5725.00	67.2 PK	68.2	-1.0	1.99 V	143	62.57	4.61
4	7480.00	51.7 PK	74.0	-22.3	1.60 V	116	42.51	9.16
5	7480.00	43.6 AV	54.0	-10.4	1.60 V	116	34.44	9.16
6	11220.00	57.6 PK	74.0	-16.4	1.00 V	278	43.69	13.90
7	11220.00	45.0 AV	54.0	-9.1	1.00 V	278	31.05	13.90

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 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	#5714.90	60.5 PK	68.2	-7.7	1.20 H	117	55.93	4.61
2	#5725.00	58.9 PK	78.2	-19.3	1.20 H	117	54.26	4.61
3	*5775.00	93.1 PK			1.20 H	117	88.37	4.72
4	*5775.00	82.7 AV			1.20 H	117	78.02	4.72
5	#5850.00	59.5 PK	78.2	-18.7	1.20 H	117	54.72	4.80
6	#5860.10	58.8 PK	68.2	-9.4	1.20 H	117	53.96	4.82
7	7700.00	49.3 PK	74.0	-24.7	1.04 H	148	40.02	9.26
8	7700.00	37.6 AV	54.0	-16.4	1.04 H	148	28.34	9.26
9	11550.00	54.8 PK	74.0	-19.2	1.00 H	108	40.94	13.82
10	11550.00	42.6 AV	54.0	-11.4	1.00 H	108	28.79	13.82
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.90	67.1 PK	68.2	-1.1	1.91 V	126	62.47	4.61
2	#5725.00	69.7 PK	78.2	-8.5	1.91 V	126	65.04	4.61
3	*5775.00	100.0 PK			1.91 V	126	95.32	4.72
4	*5775.00	89.4 AV			1.91 V	126	84.64	4.72
5	#5850.00	66.6 PK	78.2	-11.6	1.91 V	126	61.75	4.80
6	#5860.10	65.8 PK	68.2	-2.4	1.91 V	126	60.99	4.82
7	7700.00	49.5 PK	74.0	-24.5	1.71 V	165	40.28	9.26
8	7700.00	38.5 AV	54.0	-15.5	1.71 V	165	29.26	9.26
9	11550.00	56.4 PK	74.0	-17.6	1.37 V	294	42.54	13.82
10	11550.00	43.8 AV	54.0	-10.2	1.37 V	294	29.96	13.82

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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.

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	100292	Dec. 18, 2014	Dec. 17, 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	ADT_Cond_V7.3.7	NA	NA	NA
RF cable (JYEBAO)	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

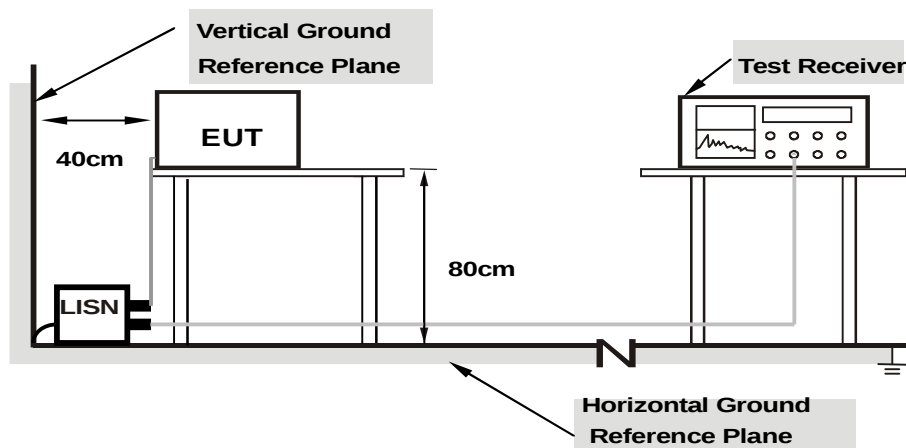
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

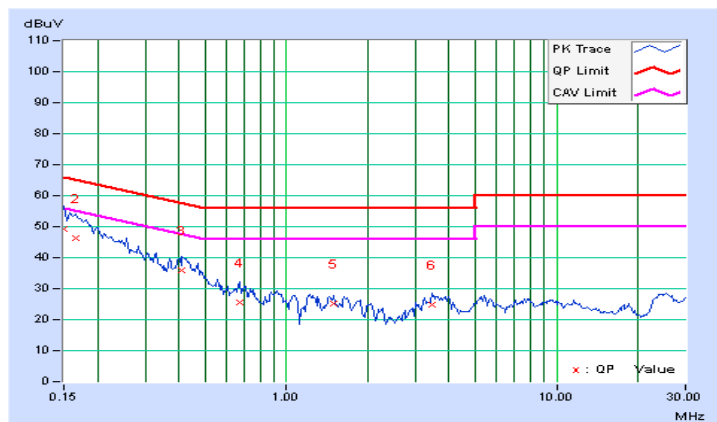
802.11a CH 36

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.21	49.17	31.27	49.38	31.48	66.00	56.00	-16.62	-24.52
2	0.16562	0.21	45.94	28.10	46.15	28.31	65.18	55.18	-19.03	-26.87
3	0.41172	0.27	35.51	28.80	35.78	29.07	57.61	47.61	-21.83	-18.54
4	0.67344	0.32	25.23	18.19	25.55	18.51	56.00	46.00	-30.45	-27.49
5	1.50391	0.42	24.71	18.25	25.13	18.67	56.00	46.00	-30.87	-27.33
6	3.47656	0.53	24.20	16.01	24.73	16.54	56.00	46.00	-31.27	-29.46

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.

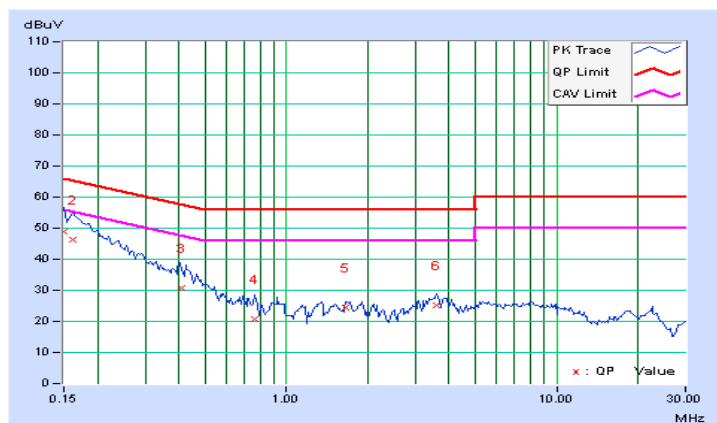


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.21	48.56	28.59	48.77	28.80	66.00	56.00	-17.23	-27.20
2	0.16172	0.21	45.99	25.53	46.20	25.74	65.38	55.38	-19.17	-29.63
3	0.40773	0.28	30.39	23.91	30.67	24.19	57.69	47.69	-27.02	-23.50
4	0.76719	0.34	20.47	12.36	20.81	12.70	56.00	46.00	-35.19	-33.30
5	1.66406	0.44	23.97	18.43	24.41	18.87	56.00	46.00	-31.59	-27.13
6	3.61328	0.55	24.65	15.52	25.20	16.07	56.00	46.00	-30.80	-29.93

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,

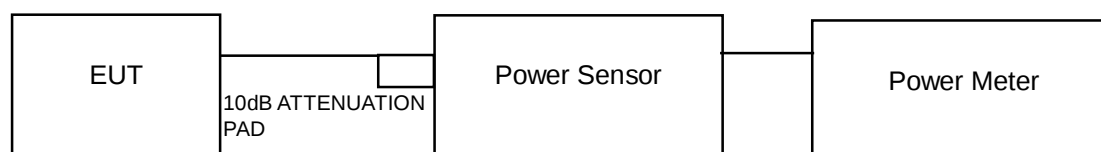
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	13.91	13.85	48.87	16.89	30	PASS
40	5200	13.94	13.87	49.152	16.92	30	PASS
48	5240	13.90	13.86	48.869	16.89	30	PASS
52	5260	20.98	20.92	248.909	23.96	24	PASS
60	5300	21.00	20.93	249.773	23.98	24	PASS
64	5320	17.97	17.88	124.037	20.94	24	PASS
100	5500	17.25	17.16	105.088	20.22	24	PASS
116	5580	20.38	20.29	216.049	23.35	24	PASS
132	5660	20.31	20.24	213.081	23.29	24	PASS
140	5700	16.28	16.21	84.245	19.26	24	PASS
149	5745	15.48	15.41	70.072	18.46	30	PASS
157	5785	20.46	20.37	220.066	23.43	30	PASS
165	5825	17.99	17.92	124.895	20.97	30	PASS

NOTE:

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

CHAIN 0

1. $11\text{dBm} + 10\log(41.33) = 27.16\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(41.76) = 27.21\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(33.99) = 26.31\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(33.26) = 26.22\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(45.17) = 27.55\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(48.86) = 27.89\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(33.02) = 26.19\text{ dBm} > 24\text{dBm}$.

CHAIN 1

1. $11\text{dBm} + 10\log(41.29) = 27.16\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(40.83) = 27.11\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(33.35) = 26.23\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(33.18) = 26.21\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(45.08) = 27.54\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(45.03) = 27.54\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(30.17) = 25.80\text{ dBm} > 24\text{dBm}$.

802.11n (HT20):

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	13.82	13.93	48.816	16.89	30	PASS
40	5200	13.93	14.00	49.836	16.98	30	PASS
48	5240	13.90	13.98	49.55	16.95	30	PASS
52	5260	19.89	19.95	196.354	22.93	24	PASS
60	5300	19.87	19.91	195	22.90	24	PASS
64	5320	18.47	18.59	142.584	21.54	24	PASS
100	5500	16.97	17.05	100.473	20.02	24	PASS
116	5580	20.47	20.58	225.717	23.54	24	PASS
132	5660	20.49	20.61	227.024	23.56	24	PASS
140	5700	16.00	16.11	80.643	19.07	24	PASS
149	5745	13.47	13.56	44.932	16.53	30	PASS
157	5785	20.51	20.63	228.071	23.58	30	PASS
165	5825	17.02	17.12	101.873	20.08	30	PASS

NOTE:

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

CHAIN 0

1. $11\text{dBm} + 10\log(43.11) = 27.35\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(44.82) = 27.51\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(38.32) = 26.83\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(35.07) = 26.45\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(47.50) = 27.77\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(48.27) = 27.84\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(31.84) = 26.03\text{ dBm} > 24\text{dBm}$.

CHAIN 1

1. $11\text{dBm} + 10\log(44.14) = 27.45\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(44.54) = 27.49\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(39.87) = 27.01\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(35.34) = 26.48\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(48.81) = 27.89\text{ dBm} > 24\text{dBm}$.
6. $11\text{dBm} + 10\log(50.13) = 28.00\text{ dBm} > 24\text{dBm}$.
7. $11\text{dBm} + 10\log(31.49) = 25.98\text{ dBm} > 24\text{dBm}$.

802.11n (HT40):

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	13.86	13.97	49.268	16.93	30	PASS
46	5230	13.91	14.01	49.781	16.97	30	PASS
54	5270	19.67	19.82	188.623	22.76	24	PASS
62	5310	14.38	14.49	55.535	17.45	24	PASS
102	5510	13.88	13.90	48.981	16.90	24	PASS
110	5550	19.48	19.57	179.289	22.54	24	PASS
134	5670	17.53	17.61	114.301	20.58	24	PASS
151	5755	11.51	11.64	28.746	14.59	30	PASS
159	5795	17.04	17.15	102.462	20.11	30	PASS

NOTE:

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

CHAIN 0

1. $11\text{dBm} + 10\log(94.16) = 30.74\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(45.26) = 27.56\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(40.63) = 27.09\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(93.09) = 30.69\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(83.47) = 30.22\text{ dBm} > 24\text{dBm}$.

CHAIN 1

1. $11\text{dBm} + 10\log(97.17) = 30.88\text{ dBm} > 24\text{dBm}$.
2. $11\text{dBm} + 10\log(40.81) = 27.11\text{ dBm} > 24\text{dBm}$.
3. $11\text{dBm} + 10\log(48.32) = 27.84\text{ dBm} > 24\text{dBm}$.
4. $11\text{dBm} + 10\log(97.45) = 30.89\text{ dBm} > 24\text{dBm}$.
5. $11\text{dBm} + 10\log(79.21) = 29.99\text{ dBm} > 24\text{dBm}$.

802.11ac (VHT80)

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
42	5210	13.88	13.99	49.495	16.95	30	PASS
58	5290	13.76	13.85	48.034	16.82	24	PASS
106	5530	13.58	13.67	46.084	16.64	24	PASS
122	5610	18.28	18.39	136.322	21.35	24	PASS
155	5775	12.05	12.16	32.476	15.12	30	PASS

NOTE:

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

CHAIN 0

1. $11\text{dBm} + 10\log(83.26) = 30.20\text{ dBm} > 24\text{dBm}.$
2. $11\text{dBm} + 10\log(93.13) = 30.69\text{ dBm} > 24\text{dBm}.$
3. $11\text{dBm} + 10\log(160.00) = 33.04\text{ dBm} > 24\text{dBm}.$

CHAIN 1

1. $11\text{dBm} + 10\log(86.44) = 30.37\text{ dBm} > 24\text{dBm}.$
2. $11\text{dBm} + 10\log(84.58) = 30.27\text{ dBm} > 24\text{dBm}.$
3. $11\text{dBm} + 10\log(160.00) = 33.04\text{ dBm} > 24\text{dBm}.$

26dB BANDWIDTH:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	20.80	20.57	PASS
40	5200	20.90	20.66	PASS
48	5240	20.74	20.75	PASS
52	5260	41.33	41.29	PASS
60	5300	41.76	40.83	PASS
64	5320	33.99	33.35	PASS
100	5500	33.26	33.18	PASS
116	5580	45.17	45.08	PASS
132	5660	48.86	45.03	PASS
140	5700	33.02	30.17	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	21.00	20.91	PASS
40	5200	21.00	20.82	PASS
48	5240	21.55	20.99	PASS
52	5260	43.11	44.14	PASS
60	5300	44.82	44.54	PASS
64	5320	38.32	39.87	PASS
100	5500	35.07	35.34	PASS
116	5580	47.50	48.81	PASS
132	5660	48.27	50.13	PASS
140	5700	31.84	31.49	PASS

802.11n (HT40)

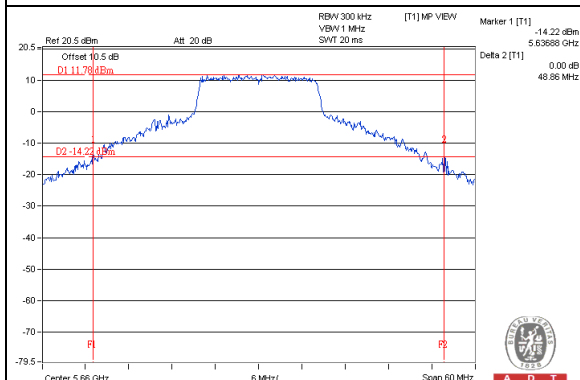
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	40.21	44.02	PASS
46	5230	39.98	44.02	PASS
54	5270	94.16	97.17	PASS
62	5310	45.26	40.81	PASS
102	5510	40.63	48.32	PASS
110	5550	93.09	97.45	PASS
134	5670	83.47	79.21	PASS

802.11ac (VHT80)

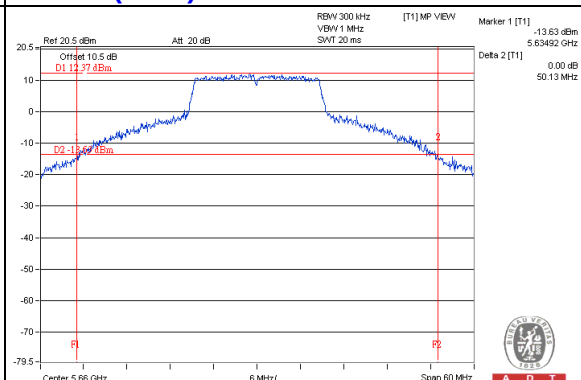
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
42	5210	83.17	90.44	PASS
58	5290	83.26	86.44	PASS
106	5530	93.13	84.58	PASS
122	5610	160.00	160.00	PASS

SPECTRUM PLOT OF WORST VALUE

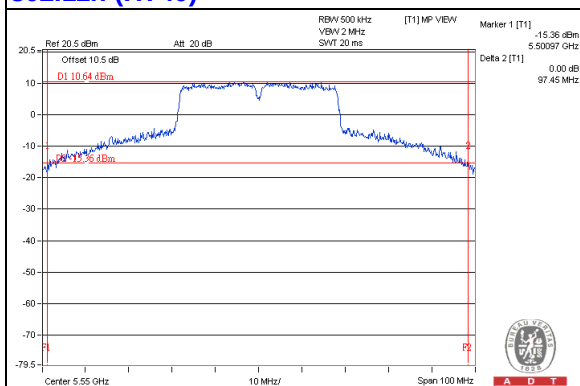
802.11a



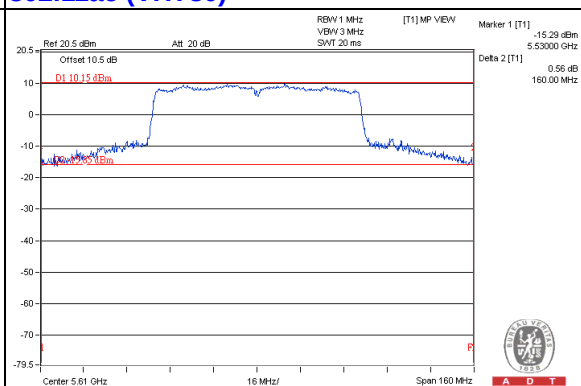
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

802.11a

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER (mW)	OUTPUT POWER (dBm)
5250~5350	249.773	23.98
5470~5725	216.049	23.35

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	196.354	22.93
5470~5725	227.024	23.56

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	188.623	22.76
5470~5725	179.289	22.54

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	48.034	16.82
5470~5725	136.322	21.35

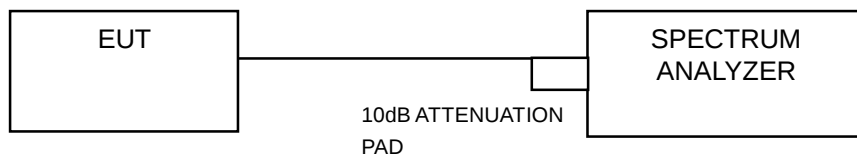
NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

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 = 30 kHz, Set VBW ≥ 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run" .
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 500 kHz, Set VBW $\geq$ 3 RBW, 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)
- 6) 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 $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$

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

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
36	5180	-0.47	-0.18	2.68	0.30	2.98	16.08	PASS
40	5200	0.16	-0.80	2.71	0.30	3.01	16.08	PASS
48	5240	0.21	-0.83	2.73	0.30	3.03	16.08	PASS
52	5260	5.16	5.24	8.21	0.30	8.51	10.08	PASS
60	5300	5.36	4.97	8.18	0.30	8.48	10.08	PASS
64	5320	3.31	2.85	6.09	0.30	6.39	10.08	PASS
100	5500	2.48	2.89	5.7	0.30	6.00	10.08	PASS
116	5580	6.77	6.51	9.65	0.30	9.95	10.08	PASS
132	5660	6.58	6.52	9.56	0.30	9.86	10.08	PASS
140	5700	2.62	2.08	5.37	0.30	5.67	10.08	PASS

NOTE: 1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. For U-NII-1 Band:

Directional gain = 3.91dBi + 10log(2) = 6.92dBi > 6dBi , so the power density limit shall be reduced to 17-(6.92-6) = 16.08dBm.

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

Directional gain = 3.91dBi + 10log(2) = 6.92dBi > 6dBi , so the power density limit shall be reduced to 11-(6.92-6) = 10.08dBm.

3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
36	5180	-1.24	-0.88	1.96	0.35	2.31	16.08	PASS
40	5200	-1.28	-0.91	1.92	0.35	2.27	16.08	PASS
48	5240	-1.16	-0.91	1.98	0.35	2.33	16.08	PASS
52	5260	3.70	4.34	7.04	0.35	7.39	10.08	PASS
60	5300	4.18	4.33	7.27	0.35	7.62	10.08	PASS
64	5320	2.85	2.32	5.61	0.35	5.96	10.08	PASS
100	5500	1.25	2.02	4.66	0.35	5.01	10.08	PASS
116	5580	4.48	5.18	7.86	0.35	8.21	10.08	PASS
132	5660	5.09	5.87	8.51	0.35	8.86	10.08	PASS
140	5700	0.66	0.53	3.61	0.35	3.96	10.08	PASS

NOTE: 1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. For U-NII-1 Band:

Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(6.92-6) = 16.08\text{dBm}$.

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

Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(6.92-6) = 10.08\text{dBm}$.

3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
38	5190	-8.35	-8.33	-5.32	0.68	-4.64	16.08	PASS
46	5230	-9.04	-8.15	-5.56	0.68	-4.88	16.08	PASS
54	5270	-5.02	-4.20	-1.57	0.68	-0.89	10.08	PASS
62	5310	-8.04	-9.25	-5.59	0.68	-4.91	10.08	PASS
102	5510	-9.59	-9.21	-6.38	0.68	-5.70	10.08	PASS
110	5550	-3.73	-3.25	-0.47	0.68	0.21	10.08	PASS
134	5670	-5.04	-4.68	-1.84	0.68	-1.16	10.08	PASS

NOTE: 1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. For U-NII-1 Band:

Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(6.92-6) = 16.08\text{dBm}$.

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

Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(6.92-6) = 10.08\text{dBm}$.

3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
42	5210	-5.50	-5.21	-2.34	0.69	-1.65	16.08	PASS
58	5290	-5.96	-5.75	-2.84	0.69	-2.15	10.08	PASS
106	5530	-5.81	-5.93	-2.85	0.69	-2.16	10.08	PASS
122	5610	-1.09	-1.00	1.97	0.69	2.66	10.08	PASS

NOTE: 1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. For U-NII-1 Band:

Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(6.92-6) = 16.08\text{dBm}$.

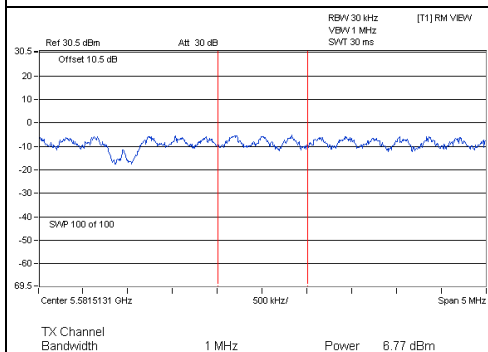
For U-NII-2A, U-NII-2C Band:

Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(6.92-6) = 10.08\text{dBm}$.

3. Refer to section 3.3 for duty cycle spectrum plot.

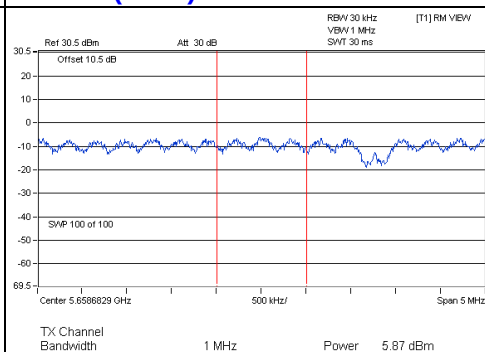
SPECTRUM PLOT OF WORST VALUE

802.11a



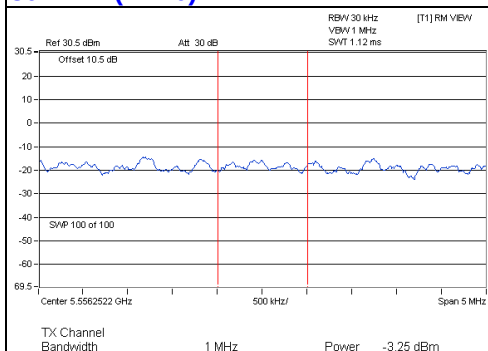
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802.11n (HT20)



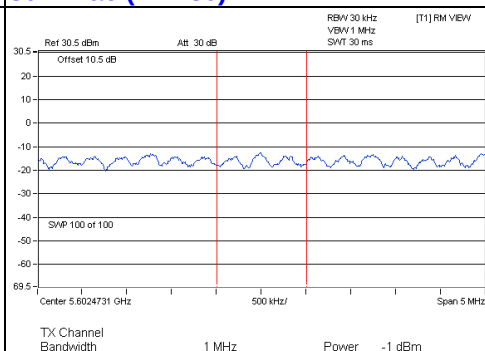
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802.11n (HT40)



A D T

802.11ac (VHT80)



A D T

For U-NII-3 Band

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/500kHz)	10 log (N=2) dB	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	149	5745	9.22	3.01	0.30	12.53	29.08	PASS
	157	5785	14.31	3.01	0.30	17.62	29.08	PASS
	165	5825	11.21	3.01	0.30	14.52	29.08	PASS
1	149	5745	8.70	3.01	0.30	12.01	29.08	PASS
	157	5785	13.98	3.01	0.30	17.29	29.08	PASS
	165	5825	10.96	3.01	0.30	14.27	29.08	PASS

NOTE: 1. Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92 > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (6.92 - 6) = 29.08\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/500kHz)	10 log (N=2) dB	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	149	5745	7.53	3.01	0.35	10.89	29.08	PASS
	157	5785	14.38	3.01	0.35	17.74	29.08	PASS
	165	5825	10.33	3.01	0.35	13.69	29.08	PASS
1	149	5745	7.82	3.01	0.35	11.18	29.08	PASS
	157	5785	14.64	3.01	0.35	18.00	29.08	PASS
	165	5825	10.66	3.01	0.35	14.02	29.08	PASS

NOTE: 1. Directional gain = $3.91\text{dBi} + 10\log(2) = 6.92 > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (6.92 - 6) = 29.08\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

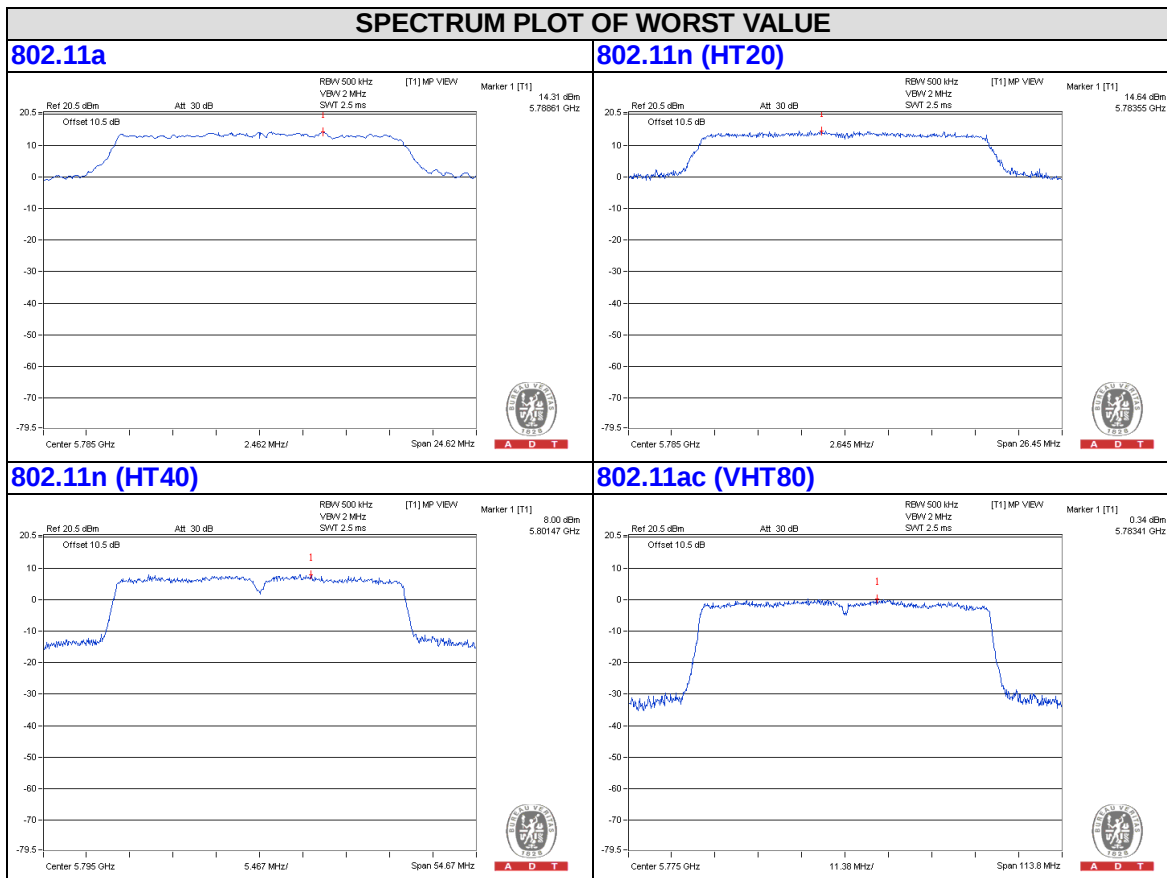
TX chain	Channel	Freq. (MHz)	PSD (dBm/500kHz)	10 log (N=2) dB	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	151	5755	3.28	3.01	0.68	6.97	29.08	PASS
	159	5795	7.79	3.01	0.68	11.48	29.08	PASS
1	151	5755	3.32	3.01	0.68	7.01	29.08	PASS
	159	5795	8.00	3.01	0.68	11.69	29.08	PASS

NOTE: 1. Directional gain = 3.91dBi + 10log(2) = 6.92 > 6dBi, so the power density limit shall be reduced to 30-(6.92-6) = 29.08dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/500kHz)	10 log (N=2) dB	DUTY FACTOR	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	155	5775	0.34	3.01	0.69	4.04	29.08	PASS
1	155	5775	0.32	3.01	0.69	4.02	29.08	PASS

NOTE: 1. Directional gain = 3.91dBi + 10log(2) = 6.92 > 6dBi, so the power density limit shall be reduced to 30-(6.92-6) = 29.08dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

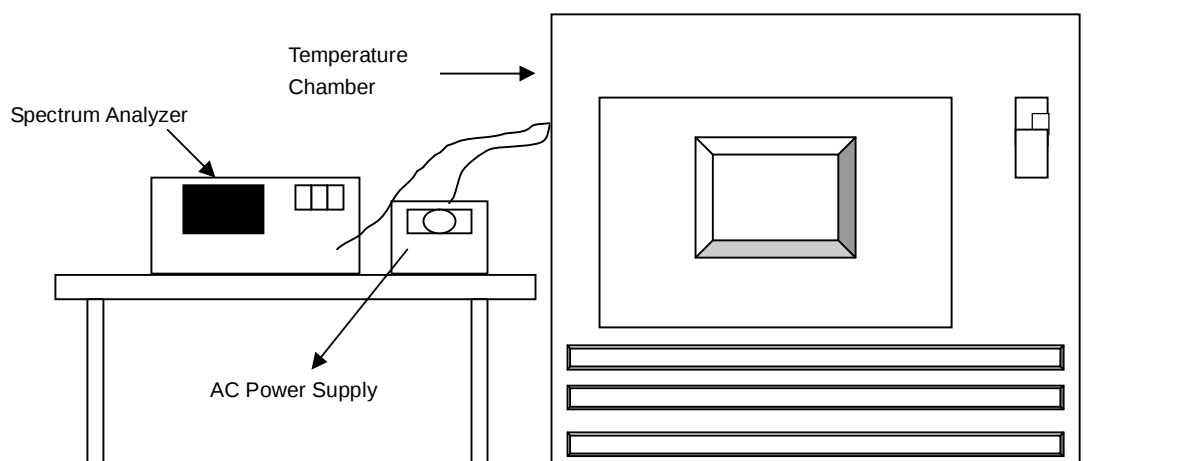


4.5 Frequency Stability Measurement

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 2 and 3 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 (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
50	120	5180.042616	8.2270925	5180.043119	8.3241313	5180.042643	8.2322394	5180.042795	8.2615830
40	120	5180.043039	8.3087623	5180.043632	8.4231660	5180.043304	8.3598456	5180.04325	8.3494208
30	120	5180.043631	8.4229943	5180.043136	8.3274131	5180.042809	8.2642857	5180.042915	8.2847490
20	120	5180.042764	8.2555735	5180.042743	8.2515444	5180.042523	8.2090734	5180.04245	8.1949807
10	120	5180.042655	8.2346482	5180.04301	8.3030888	5180.043237	8.3469112	5180.043037	8.3083012
0	120	5180.043233	8.3461434	5180.04328	8.3552124	5180.043141	8.3283784	5180.043002	8.3015444
-10	120	5180.043463	8.3905138	5180.042822	8.2667954	5180.042756	8.2540541	5180.042834	8.2691120
-20	120	5180.042845	8.2711574	5180.043037	8.3083012	5180.042985	8.2982625	5180.042968	8.2949807

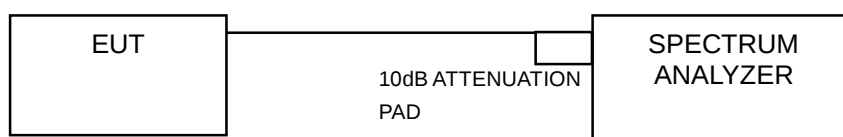
FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	138	5180.043238	8.3470697	5180.042766	8.2559846	5180.042812	8.2648649	5180.042999	8.3009653
	120	5180.042764	8.2555735	5180.042743	8.2515444	5180.042523	8.2090734	5180.04245	8.1949807
	102	5180.042159	8.1388545	5180.042144	8.1359073	5180.042340	8.1737452	5180.042316	8.1691120

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
		CHAIN 0	CHAIN 1		
149	5745	16.38	16.39	0.5	PASS
157	5785	16.42	16.41	0.5	PASS
165	5825	16.38	16.39	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHZ)		MINIMUM LIMIT (MHZ)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.60	17.64	0.5	PASS
157	5785	17.64	17.64	0.5	PASS
165	5825	17.62	17.61	0.5	PASS

802.11n (40MHz)

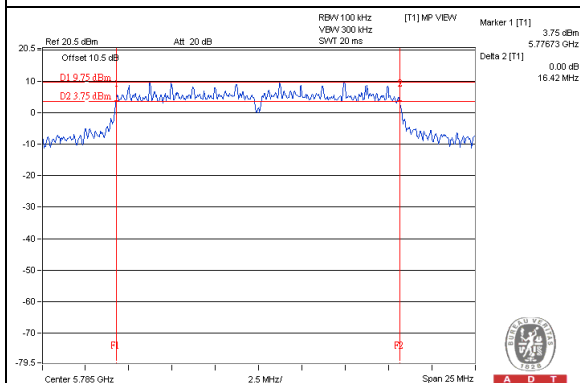
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHZ)		MINIMUM LIMIT (MHZ)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.41	36.40	0.5	PASS
159	5795	36.45	36.45	0.5	PASS

802.11ac (80MHz)

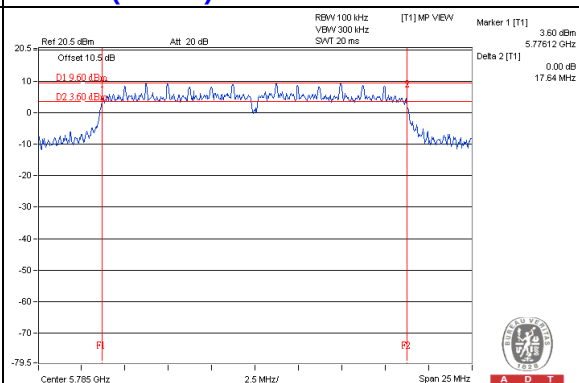
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHZ)		MINIMUM LIMIT (MHZ)	PASS / FAIL
		CHAIN 0	CHAIN 1		
155	5775	75.87	75.70	0.5	PASS

SPECTRUM PLOT OF WORST VALUE

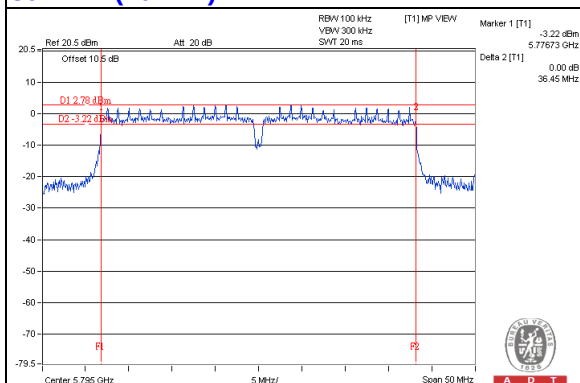
802.11a



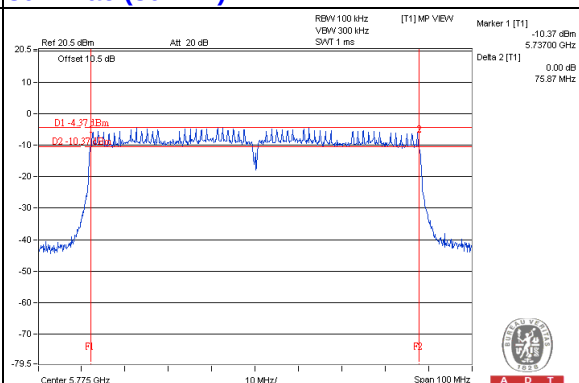
802.11n (20MHz)



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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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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