FCC Test Report

Report No.:	RF171006C01-2
FCC ID:	CFS8DLRCHS5200W
Test Model:	RCHS5200W
Received Date:	Oct. 06, 2017
Test Date:	Oct. 20 ~ Nov. 02, 2017
Issued Date:	Nov. 09, 2017
Applicant:	Honeywell International Inc.
Address:	2 Corporate Center Drive Melville NY 11747 United States Of America
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
FCC Registration:	788550
Designation Number:	TW0003

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Release Control Record

Issue No.	Description	Date Issued
RF171006C01-2	Original release.	Nov. 09, 2017

1 Certificate of Conformity

Product:	Smart Home Security Base Station
Brand:	Honeywell
Test Model:	RCHS5200W
Sample Status:	Engineering sample
Applicant:	Honeywell International Inc.
Test Date:	Oct. 20 ~ Nov. 02, 2017
Standards:	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 : _____ , **Date:** Nov. 09, 2017

Pettie Chen / Senior Specialist

Approved by : _____ , **Date:** Nov. 09, 2017

Ken Liu / Senior 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 -13.97dB at 0.33750MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.7dB at 5470.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

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) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Smart Home Security Base Station
Brand	Honeywell
Test Model	RCHS5200W
Sample Status	Engineering sample
Power Supply Rating	12Vdc (adapter)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps
Operating Frequency	5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz
Number of Channel	5180~5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260~5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500~5700MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11 802.11n (HT40), 802.11ac (VHT40): 5 802.11ac (VHT80): 2 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	5180~5240MHz: 101.859mW 5260~5320MHz: 108.143mW 5500~5700MHz: 117.761mW 5745~5825MHz: 111.173mW
Antenna Type	Ant. 0: PIFA antenna with 2.2dBi gain Ant. 1: Loop antenna with 2.4dBi gain
Antenna Connector	NA
Accessory Device	Adapter
Cable Supplied	NA

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

Modulation Mode	TX Function
802.11a	1TX (Diversity)
802.11n (HT20)	1TX (Diversity)
802.11n (HT40)	1TX (Diversity)
802.11ac (VHT20)	1TX (Diversity)
802.11ac (VHT40)	1TX (Diversity)
802.11ac (VHT80)	1TX (Diversity)

* The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40. After pre-testing, 802.11ac (VHT20/VHT40) power is lower than 802.11n (HT20/HT40), therefore 802.11n (HT20/HT40) is the worst case to representative mode in test report. (Final test mode refer section 3.2.1)
* For Antenna Port Conducted Measurement, Ant. 1 with maximum gain was chosen for the final test.

2. The EUT consumes power from the following adapter.

Adapter	
Brand	Asian Power Devices Inc.
Model	WA-30J12FU
Input Power	100-240Vac~50-60Hz, 0.9A Max
Output Power	12Vdc/ 2.5A
Power Line	1.5m non-shielded cable with one core

3. The WiFi and Bluetooth cannot transmit simultaneously.

3.2 Description of Test Modes

5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290MHz

5500~5700MHz:

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

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 (HT40), 802.11ac (VHT40):

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	-	Ant. 0
B	√	√	√	√	Ant. 1

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission APCM: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane
2. "-": Means no effect.

Radiated Emission Test (Above 1GHz):

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

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
A, B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
A, B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106 to 122	106, 122	OFDM	29.3
A, B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11a	5180-5240	36 to 48	36	OFDM	6.0
		5260-5320	52 to 64		OFDM	6.0
		5500-5700	100 to 144		OFDM	6.0
		5745-5825	149 to 165		OFDM	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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11a	5180-5240	36 to 48	36	OFDM	6.0
		5260-5320	52 to 64		OFDM	6.0
		5500-5700	100 to 144		OFDM	6.0
		5745-5825	149 to 165		OFDM	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	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106 to 122	106, 122	OFDM	29.3
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

Test Condition:

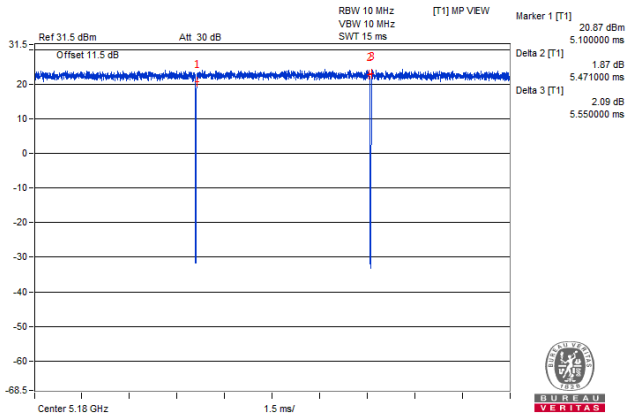
Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G	25deg. C, 66%RH	120Vac, 60Hz	James Yang
RE<1G	25deg. C, 66%RH	120Vac, 60Hz	Greg Lin
PLC	25deg. C, 65%RH	120Vac, 60Hz	Greg Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Han Wu

3.3 Duty Cycle of Test Signal

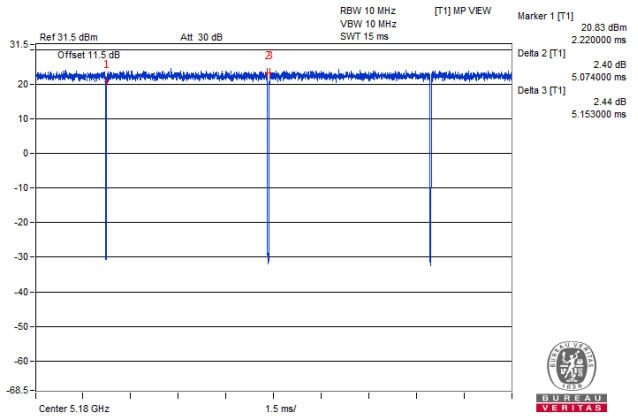
Duty cycle of test signal is > 98%, duty factor is not required.
Duty cycle of test signal is < 98 %, duty factor is required.

802.11a: Duty cycle = 5.471/5.55 = 0.986
802.11n (HT20): Duty cycle = 5.074/5.153 = 0.985
802.11n (HT40): Duty cycle = 2.466/2.524 = 0.977, Duty factor = 10 * log(1/0.977) = 0.10
802.11ac (VHT80): Duty cycle = 0.248/0.258 = 0.961, Duty factor = 10 * log(1/0.961) = 0.17

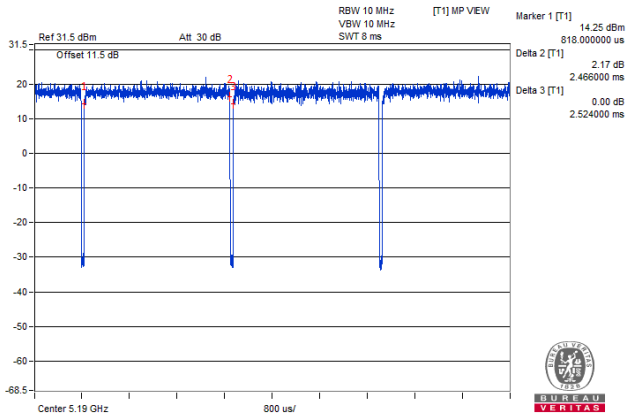
802.11a



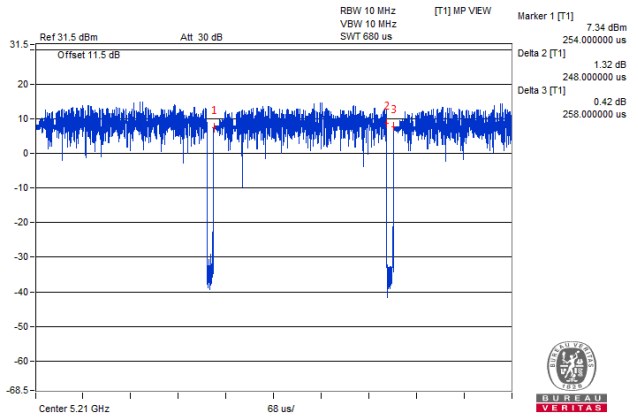
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



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.	Notebook	ASUS	P2420L	FCNXCV16385351D	FCC DoC Approved	-

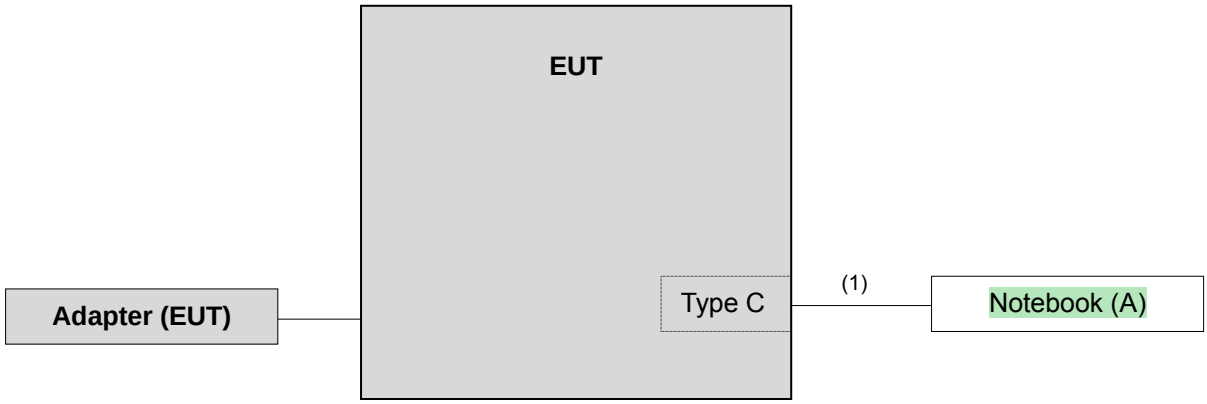
Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Type C to USB cable	1	1.0	-	0	-

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 Standards

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)
KDB 789033 D02 General UNII Test Procedure New Rules v01r04
KDB 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:

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

Limits of unwanted emission out of the restricted bands

<table>
<tr><td colspan="3">Applicable To</td><td colspan="2">Limit</td></tr>
<tr><td colspan="3" rowspan="2">789033 D02 General UNII Test Procedure New Rules v01r04</td><td colspan="2">Field Strength at 3m</td></tr>
<tr><td>PK: 74 (dBμV/m)</td><td>AV: 54 (dBμV/m)</td></tr>
<tr><td>Frequency Band</td><td colspan="2">Applicable To</td><td>EIRP Limit</td><td>Equivalent Field Strength at 3m</td></tr>
<tr><td>5150~5250 MHz</td><td colspan="2">15.407(b)(1)</td><td rowspan="3">PK: -27 (dBm/MHz)</td><td rowspan="3">PK: 68.2(dBμV/m)</td></tr>
<tr><td>5250~5350 MHz</td><td colspan="2">15.407(b)(2)</td></tr>
<tr><td>5470~5725 MHz</td><td colspan="2">15.407(b)(3)</td></tr>
<tr><td rowspan="2">5725~5850 MHz</td><td>☒</td><td>15.407(b)(4)(i)</td><td>PK: -27 (dBm/MHz) *1
PK: 10 (dBm/MHz) *2
PK: 15.6 (dBm/MHz) *3
PK: 27 (dBm/MHz) *4</td><td>PK: 68.2(dBμV/m) *1
PK: 105.2 (dBμV/m) *2
PK: 110.8(dBμV/m) *3
PK: 122.2 (dBμV/m) *4</td></tr>
<tr><td>☐</td><td>15.407(b)(4)(ii)</td><td colspan="2">Emission limits in section 15.247(d)</td></tr>
<tr><td colspan="5">*1 beyond 75 MHz or more above of the band edge.
*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</td></tr>
</table>

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Mar. 27, 2017	Mar. 26, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	May 11, 2017	May 10, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-148	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna EMCI	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent	8449B	3008A01638	Feb. 22, 2017	Feb. 21, 2018
Preamplifier Agilent	8447D	2944A10638	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-02 (248780+MY13377)	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Aug. 08, 2017	Aug. 07, 2018
RF signal cable Woken	8D-FB	Cable-CH9-01	Aug. 01, 2017	Jul. 31, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
26GHz ~ 40GHz Amplifier	EMC 012645	980115	Oct. 20, 2017	Oct. 19, 2018
High Speed Peak Power Meter	ML2495A	0824012	Aug. 18, 2017	Aug. 17, 2018
Power Sensor	MA2411B	0738171	Aug. 18, 2017	Aug. 17, 2018

Note: 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 HwaYa Chamber 9.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC 7450F-9.

4.1.3 Test Procedures

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Both X and Y axes of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 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 ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.

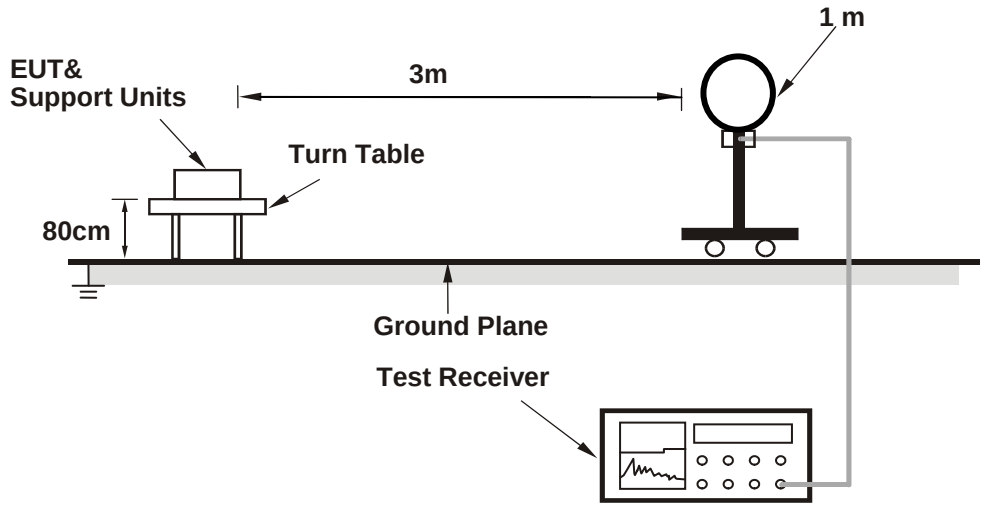
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

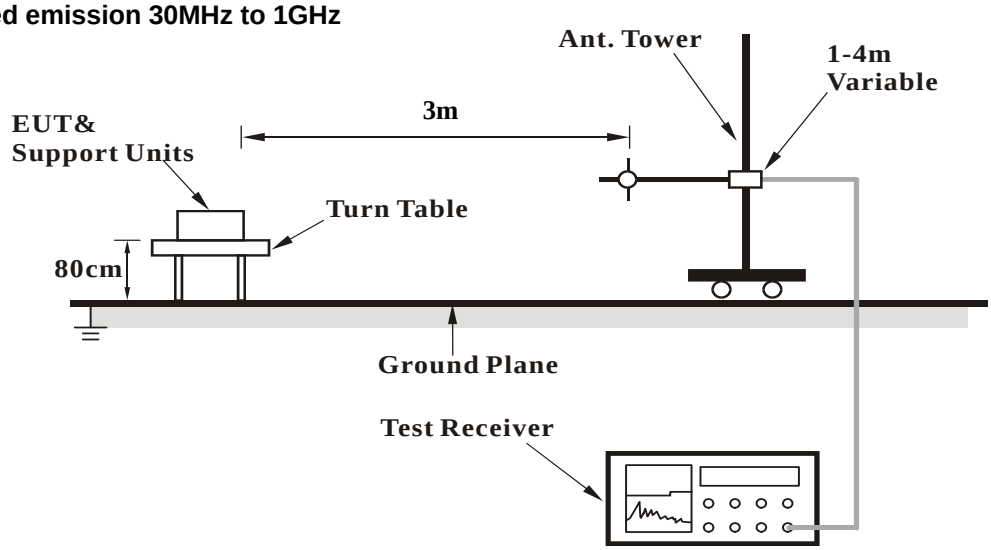
No deviation.

4.1.5 Test Set Up

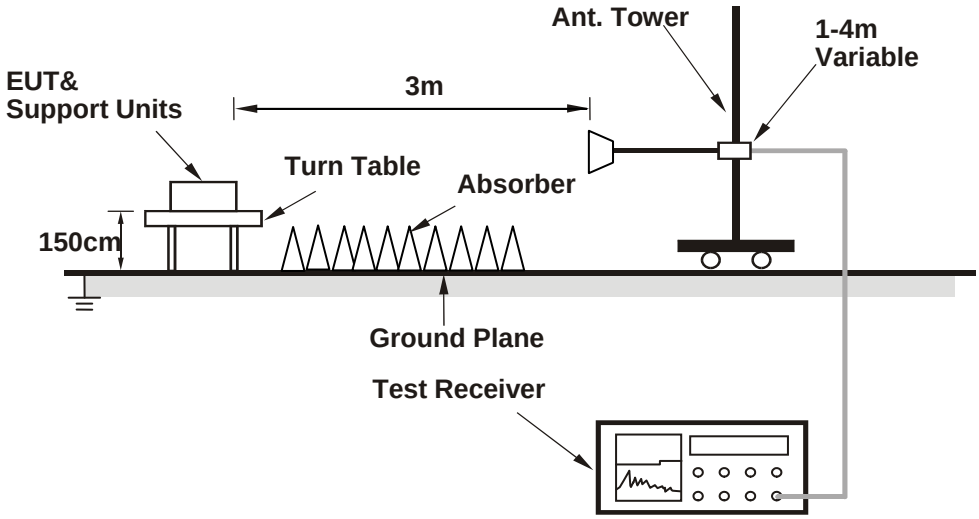
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

a. Connected the EUT and a notebook via a type C to USB cable and placed them on the testing table.
b. The notebook ran a test program to enable EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz data:

Test Mode A

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	2.97 H	9	57.1	7.4
2	5150.00	49.7 AV	54.0	-4.3	2.97 H	9	42.3	7.4
3	*5180.00	112.9 PK			2.94 H	17	71.6	41.3
4	*5180.00	101.4 AV			2.94 H	17	60.1	41.3
5	#10360.00	62.6 PK	74.0	-11.4	2.71 H	115	42.6	20.0
6	#10360.00	49.6 AV	54.0	-4.4	2.71 H	115	29.6	20.0
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	61.6 PK	74.0	-12.4	1.29 V	215	54.2	7.4
2	5150.00	47.3 AV	54.0	-6.7	1.29 V	215	39.9	7.4
3	*5180.00	107.0 PK			1.19 V	227	65.7	41.3
4	*5180.00	96.3 AV			1.19 V	227	55.0	41.3
5	#10360.00	61.8 PK	74.0	-12.2	2.41 V	201	41.8	20.0
6	#10360.00	48.9 AV	54.0	-5.1	2.41 V	201	28.9	20.0

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 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	112.6 PK			2.84 H	12	71.3	41.3
2	*5200.00	101.3 AV			2.84 H	12	60.0	41.3
3	#10400.00	63.0 PK	74.0	-11.0	2.14 H	187	42.8	20.2
4	#10400.00	50.1 AV	54.0	-3.9	2.14 H	187	29.9	20.2
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	108.4 PK			1.28 V	228	67.1	41.3
2	*5200.00	97.2 AV			1.28 V	228	55.9	41.3
3	#10400.00	62.0 PK	74.0	-12.0	1.98 V	303	41.8	20.2
4	#10400.00	48.8 AV	54.0	-5.2	1.98 V	303	28.6	20.2

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.8 PK			2.76 H	14	72.3	41.5
2	*5240.00	102.6 AV			2.76 H	14	61.1	41.5
3	5350.00	61.1 PK	74.0	-12.9	2.88 H	17	53.1	8.0
4	5350.00	46.8 AV	54.0	-7.2	2.88 H	17	38.8	8.0
5	#10480.00	62.5 PK	74.0	-11.5	2.46 H	119	42.2	20.3
6	#10480.00	49.6 AV	54.0	-4.4	2.46 H	119	29.3	20.3
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	108.6 PK			1.42 V	227	67.1	41.5
2	*5240.00	98.5 AV			1.42 V	227	57.0	41.5
3	5350.00	60.1 PK	74.0	-13.9	1.49 V	236	52.1	8.0
4	5350.00	46.7 AV	54.0	-7.3	1.49 V	236	38.7	8.0
5	#10480.00	61.5 PK	74.0	-12.5	2.87 V	120	41.2	20.3
6	#10480.00	49.0 AV	54.0	-5.0	2.87 V	120	28.7	20.3

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	2.91 H	8	53.9	7.4
2	5150.00	48.7 AV	54.0	-5.3	2.91 H	8	41.3	7.4
3	*5260.00	113.7 PK			2.91 H	8	72.2	41.5
4	*5260.00	103.0 AV			2.91 H	8	61.5	41.5
5	#10520.00	63.2 PK	74.0	-10.8	1.49 H	53	42.9	20.3
6	#10520.00	49.9 AV	54.0	-4.1	1.49 H	53	29.6	20.3
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	59.2 PK	74.0	-14.8	1.27 V	210	51.8	7.4
2	5150.00	46.1 AV	54.0	-7.9	1.27 V	210	38.7	7.4
3	*5260.00	108.4 PK			1.18 V	227	66.9	41.5
4	*5260.00	97.3 AV			1.18 V	227	55.8	41.5
5	#10520.00	62.2 PK	74.0	-11.8	1.68 V	337	41.9	20.3
6	#10520.00	48.9 AV	54.0	-5.1	1.68 V	337	28.6	20.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	112.8 PK			3.16 H	14	71.2	41.6
2	*5300.00	102.3 AV			3.16 H	14	60.7	41.6
3	10600.00	63.6 PK	74.0	-10.4	2.41 H	119	42.8	20.8
4	10600.00	50.5 AV	54.0	-3.5	2.41 H	119	29.7	20.8
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	107.2 PK			1.21 V	226	65.6	41.6
2	*5300.00	96.4 AV			1.21 V	226	54.8	41.6
3	10600.00	62.5 PK	74.0	-11.5	1.39 V	254	41.7	20.8
4	10600.00	49.3 AV	54.0	-4.7	1.39 V	254	28.5	20.8

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.7 PK			2.70 H	18	71.1	41.6
2	*5320.00	101.9 AV			2.70 H	18	60.3	41.6
3	5350.00	66.3 PK	74.0	-7.7	2.42 H	19	58.3	8.0
4	5350.00	50.4 AV	54.0	-3.6	2.42 H	19	42.4	8.0
5	10640.00	63.7 PK	74.0	-10.3	2.48 H	187	42.9	20.8
6	10640.00	50.4 AV	54.0	-3.6	2.48 H	187	29.6	20.8
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	107.1 PK			1.31 V	225	65.5	41.6
2	*5320.00	95.9 AV			1.31 V	225	54.3	41.6
3	5350.00	60.1 PK	74.0	-13.9	1.27 V	218	52.1	8.0
4	5350.00	46.9 AV	54.0	-7.1	1.27 V	218	38.9	8.0
5	10640.00	62.3 PK	74.0	-11.7	1.52 V	229	41.5	20.8
6	10640.00	49.5 AV	54.0	-4.5	1.52 V	229	28.7	20.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	3.45 H	27	52.9	8.2
2	5460.00	47.3 AV	54.0	-6.7	3.45 H	27	39.1	8.2
3	#5470.00	65.6 PK	74.0	-8.4	3.31 H	14	57.4	8.2
4	#5470.00	49.6 AV	54.0	-4.4	3.31 H	14	41.4	8.2
5	*5500.00	110.2 PK			3.00 H	8	68.2	42.0
6	*5500.00	99.6 AV			3.00 H	8	57.6	42.0
7	11000.00	64.2 PK	74.0	-9.8	2.17 H	119	42.8	21.4
8	11000.00	51.1 AV	54.0	-2.9	2.17 H	119	29.7	21.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.7 PK	74.0	-13.3	3.99 V	58	52.5	8.2
2	5460.00	47.9 AV	54.0	-6.1	3.99 V	58	39.7	8.2
3	#5470.00	65.3 PK	74.0	-8.7	3.81 V	66	57.1	8.2
4	#5470.00	48.9 AV	54.0	-5.1	3.81 V	66	40.7	8.2
5	*5500.00	108.2 PK			4.00 V	55	66.2	42.0
6	*5500.00	97.9 AV			4.00 V	55	55.9	42.0
7	11000.00	63.5 PK	74.0	-10.5	2.54 V	117	42.1	21.4
8	11000.00	50.5 AV	54.0	-3.5	2.54 V	117	29.1	21.4

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	110.2 PK			3.39 H	14	68.0	42.2
2	*5580.00	98.9 AV			3.39 H	14	56.7	42.2
3	11160.00	64.4 PK	74.0	-9.6	2.77 H	184	42.9	21.5
4	11160.00	51.2 AV	54.0	-2.8	2.77 H	184	29.7	21.5
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	107.3 PK			4.00 V	56	65.1	42.2
2	*5580.00	96.7 AV			4.00 V	56	54.5	42.2
3	11160.00	63.3 PK	74.0	-10.7	2.33 V	140	41.8	21.5
4	11160.00	50.3 AV	54.0	-3.7	2.33 V	140	28.8	21.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	109.0 PK			2.60 H	51	66.5	42.5
2	*5700.00	97.6 AV			2.60 H	51	55.1	42.5
3	#5725.00	60.8 PK	74.0	-13.2	2.75 H	62	52.1	8.7
4	#5725.00	48.8 AV	54.0	-5.2	2.75 H	62	40.1	8.7
5	11400.00	64.4 PK	74.0	-9.6	2.19 H	186	42.9	21.5
6	11400.00	50.9 AV	54.0	-3.1	2.19 H	186	29.4	21.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.0 PK			3.93 V	53	63.5	42.5
2	*5700.00	95.0 AV			3.93 V	53	52.5	42.5
3	#5725.00	62.4 PK	74.0	-11.6	3.75 V	59	53.7	8.7
4	#5725.00	47.8 AV	54.0	-6.2	3.75 V	59	39.1	8.7
5	11400.00	63.0 PK	74.0	-11.0	2.48 V	188	41.5	21.5
6	11400.00	49.9 AV	54.0	-4.1	2.48 V	188	28.4	21.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.80	60.4 PK	68.2	-7.8	2.97 H	12	51.9	8.5
2	*5745.00	108.9 PK			2.97 H	12	66.2	42.7
3	*5745.00	97.3 AV			2.97 H	12	54.6	42.7
4	#5961.60	61.7 PK	68.2	-6.5	2.97 H	12	52.1	9.6
5	11490.00	65.0 PK	74.0	-9.0	1.93 H	301	43.2	21.8
6	11490.00	51.5 AV	54.0	-2.5	1.93 H	301	29.7	21.8
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	#5607.20	61.0 PK	68.2	-7.2	3.99 V	61	52.5	8.5
2	*5745.00	106.9 PK			3.99 V	61	64.2	42.7
3	*5745.00	96.0 AV			3.99 V	61	53.3	42.7
4	#5966.40	61.7 PK	68.2	-6.5	3.99 V	61	52.1	9.6
5	11490.00	63.5 PK	74.0	-10.5	2.69 V	120	41.7	21.8
6	11490.00	50.2 AV	54.0	-3.8	2.69 V	120	28.4	21.8

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 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.20	62.0 PK	68.2	-6.2	2.82 H	41	53.5	8.5
2	*5785.00	109.0 PK			2.82 H	41	66.3	42.7
3	*5785.00	97.8 AV			2.82 H	41	55.1	42.7
4	#5934.40	62.3 PK	68.2	-5.9	2.82 H	41	52.9	9.4
5	11570.00	64.6 PK	74.0	-9.4	2.30 H	134	42.8	21.8
6	11570.00	51.4 AV	54.0	-2.6	2.30 H	134	29.6	21.8
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	#5648.80	60.2 PK	68.2	-8.0	3.85 V	59	51.6	8.6
2	*5785.00	106.5 PK			3.85 V	59	63.8	42.7
3	*5785.00	95.8 AV			3.85 V	59	53.1	42.7
4	#5996.00	61.5 PK	68.2	-6.7	3.85 V	59	51.8	9.7
5	11570.00	63.5 PK	74.0	-10.5	1.67 V	273	41.7	21.8
6	11570.00	50.2 AV	54.0	-3.8	1.67 V	273	28.4	21.8

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 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.80	60.4 PK	68.2	-7.8	2.99 H	49	51.9	8.5
2	*5825.00	108.7 PK			2.99 H	49	65.8	42.9
3	*5825.00	97.4 AV			2.99 H	49	54.5	42.9
4	#5984.00	62.7 PK	68.2	-5.5	2.99 H	49	53.1	9.6
5	11650.00	64.1 PK	74.0	-9.9	2.69 H	117	42.7	21.4
6	11650.00	50.9 AV	54.0	-3.1	2.69 H	117	29.5	21.4
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	#5607.20	60.7 PK	68.2	-7.5	3.78 V	60	52.2	8.5
2	*5825.00	106.8 PK			3.78 V	60	63.9	42.9
3	*5825.00	96.0 AV			3.78 V	60	53.1	42.9
4	#5977.60	61.4 PK	68.2	-6.8	3.78 V	60	51.8	9.6
5	11650.00	62.6 PK	74.0	-11.4	1.72 V	233	41.2	21.4
6	11650.00	50.1 AV	54.0	-3.9	1.72 V	233	28.7	21.4

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 (HT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.2 PK	74.0	-5.8	2.72 H	15	60.8	7.4
2	5150.00	51.1 AV	54.0	-2.9	2.72 H	15	43.7	7.4
3	*5180.00	112.4 PK			2.75 H	22	71.1	41.3
4	*5180.00	101.1 AV			2.75 H	22	59.8	41.3
5	#10360.00	62.9 PK	74.0	-11.1	2.54 H	138	42.9	20.0
6	#10360.00	49.7 AV	54.0	-4.3	2.54 H	138	29.7	20.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.2 PK	74.0	-10.8	1.28 V	230	55.8	7.4
2	5150.00	48.0 AV	54.0	-6.0	1.28 V	230	40.6	7.4
3	*5180.00	107.3 PK			1.19 V	227	66.0	41.3
4	*5180.00	96.4 AV			1.19 V	227	55.1	41.3
5	#10360.00	61.2 PK	74.0	-12.8	2.66 V	187	41.2	20.0
6	#10360.00	48.7 AV	54.0	-5.3	2.66 V	187	28.7	20.0

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 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	112.1 PK			2.80 H	12	70.8	41.3
2	*5200.00	101.4 AV			2.80 H	12	60.1	41.3
3	#10400.00	63.0 PK	74.0	-11.0	1.43 H	251	42.8	20.2
4	#10400.00	49.5 AV	54.0	-4.5	1.43 H	251	29.3	20.2
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	107.8 PK			1.16 V	225	66.5	41.3
2	*5200.00	96.9 AV			1.16 V	225	55.6	41.3
3	#10400.00	62.0 PK	74.0	-12.0	1.42 V	97	41.8	20.2
4	#10400.00	48.5 AV	54.0	-5.5	1.42 V	97	28.3	20.2

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.8 PK			2.79 H	14	72.3	41.5
2	*5240.00	102.7 AV			2.79 H	14	61.2	41.5
3	5350.00	61.4 PK	74.0	-12.6	2.75 H	38	53.4	8.0
4	5350.00	47.2 AV	54.0	-6.8	2.75 H	38	39.2	8.0
5	#10480.00	63.4 PK	74.0	-10.6	3.30 H	189	43.1	20.3
6	#10480.00	49.8 AV	54.0	-4.2	3.30 H	189	29.5	20.3
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	108.5 PK			1.20 V	226	67.0	41.5
2	*5240.00	97.2 AV			1.20 V	226	55.7	41.5
3	5350.00	59.7 PK	74.0	-14.3	1.28 V	249	51.7	8.0
4	5350.00	46.5 AV	54.0	-7.5	1.28 V	249	38.5	8.0
5	#10480.00	61.8 PK	74.0	-12.2	3.22 V	150	41.5	20.3
6	#10480.00	49.2 AV	54.0	-4.8	3.22 V	150	28.9	20.3

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.1 PK	74.0	-12.9	2.49 H	33	53.7	7.4
2	5150.00	47.2 AV	54.0	-6.8	2.49 H	33	39.8	7.4
3	*5260.00	113.0 PK			2.42 H	26	71.5	41.5
4	*5260.00	101.9 AV			2.42 H	26	60.4	41.5
5	#10520.00	63.0 PK	74.0	-11.0	2.99 H	182	42.7	20.3
6	#10520.00	50.1 AV	54.0	-3.9	2.99 H	182	29.8	20.3
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	59.3 PK	74.0	-14.7	1.58 V	249	51.9	7.4
2	5150.00	46.3 AV	54.0	-7.7	1.58 V	249	38.9	7.4
3	*5260.00	108.3 PK			1.37 V	225	66.8	41.5
4	*5260.00	97.9 AV			1.37 V	225	56.4	41.5
5	#10520.00	62.0 PK	74.0	-12.0	2.44 V	118	41.7	20.3
6	#10520.00	49.1 AV	54.0	-4.9	2.44 V	118	28.8	20.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	113.1 PK			2.99 H	16	71.5	41.6
2	*5300.00	101.8 AV			2.99 H	16	60.2	41.6
3	10600.00	63.3 PK	74.0	-10.7	2.87 H	161	42.5	20.8
4	10600.00	50.1 AV	54.0	-3.9	2.87 H	161	29.3	20.8
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	107.9 PK			1.33 V	225	66.3	41.6
2	*5300.00	96.7 AV			1.33 V	225	55.1	41.6
3	10600.00	62.9 PK	74.0	-11.1	2.17 V	98	42.1	20.8
4	10600.00	49.3 AV	54.0	-4.7	2.17 V	98	28.5	20.8

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.7 PK			2.94 H	6	71.1	41.6
2	*5320.00	101.8 AV			2.94 H	6	60.2	41.6
3	5350.00	67.3 PK	74.0	-6.7	2.96 H	15	59.3	8.0
4	5350.00	50.9 AV	54.0	-3.1	2.96 H	15	42.9	8.0
5	10640.00	63.5 PK	74.0	-10.5	2.44 H	159	42.7	20.8
6	10640.00	50.7 AV	54.0	-3.3	2.44 H	159	29.9	20.8
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	107.1 PK			1.52 V	224	65.5	41.6
2	*5320.00	95.7 AV			1.52 V	224	54.1	41.6
3	5350.00	59.8 PK	74.0	-14.2	1.55 V	241	51.8	8.0
4	5350.00	46.7 AV	54.0	-7.3	1.55 V	241	38.7	8.0
5	10640.00	62.5 PK	74.0	-11.5	2.41 V	117	41.7	20.8
6	10640.00	49.7 AV	54.0	-4.3	2.41 V	117	28.9	20.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.5 PK	74.0	-13.5	2.67 H	24	52.3	8.2
2	5460.00	46.5 AV	54.0	-7.5	2.67 H	24	38.3	8.2
3	#5470.00	65.4 PK	74.0	-8.6	2.88 H	12	57.2	8.2
4	#5470.00	49.1 AV	54.0	-4.9	2.88 H	12	40.9	8.2
5	*5500.00	108.7 PK			2.76 H	14	66.7	42.0
6	*5500.00	98.4 AV			2.76 H	14	56.4	42.0
7	11000.00	64.0 PK	74.0	-10.0	2.01 H	138	42.6	21.4
8	11000.00	50.7 AV	54.0	-3.3	2.01 H	138	29.3	21.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.3 PK	74.0	-13.7	3.77 V	59	52.1	8.2
2	5460.00	47.2 AV	54.0	-6.8	3.77 V	59	39.0	8.2
3	#5470.00	62.4 PK	74.0	-11.6	3.58 V	61	54.2	8.2
4	#5470.00	49.1 AV	54.0	-4.9	3.58 V	61	40.9	8.2
5	*5500.00	107.6 PK			3.72 V	54	65.6	42.0
6	*5500.00	97.7 AV			3.72 V	54	55.7	42.0
7	11000.00	63.5 PK	74.0	-10.5	1.63 V	230	42.1	21.4
8	11000.00	50.3 AV	54.0	-3.7	1.63 V	230	28.9	21.4

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	108.1 PK			3.12 H	19	65.9	42.2
2	*5580.00	97.4 AV			3.12 H	19	55.2	42.2
3	11160.00	64.1 PK	74.0	-9.9	2.22 H	109	42.6	21.5
4	11160.00	51.0 AV	54.0	-3.0	2.22 H	109	29.5	21.5
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	107.8 PK			4.00 V	43	65.6	42.2
2	*5580.00	96.6 AV			4.00 V	43	54.4	42.2
3	11160.00	63.2 PK	74.0	-10.8	1.52 V	226	41.7	21.5
4	11160.00	50.1 AV	54.0	-3.9	1.52 V	226	28.6	21.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.7 PK			3.10 H	49	66.2	42.5
2	*5700.00	97.8 AV			3.10 H	49	55.3	42.5
3	#5725.00	64.6 PK	74.0	-9.4	3.37 H	25	55.9	8.7
4	#5725.00	49.4 AV	54.0	-4.6	3.37 H	25	40.7	8.7
5	11400.00	64.4 PK	74.0	-9.6	2.68 H	132	42.9	21.5
6	11400.00	51.3 AV	54.0	-2.7	2.68 H	132	29.8	21.5
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	107.7 PK			4.00 V	63	65.2	42.5
2	*5700.00	96.8 AV			4.00 V	63	54.3	42.5
3	#5725.00	62.7 PK	74.0	-11.3	3.87 V	72	54.0	8.7
4	#5725.00	49.4 AV	54.0	-4.6	3.87 V	72	40.7	8.7
5	11400.00	63.4 PK	74.0	-10.6	1.17 V	260	41.9	21.5
6	11400.00	50.3 AV	54.0	-3.7	1.17 V	260	28.8	21.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	60.6 PK	68.2	-7.6	3.00 H	42	52.1	8.5
2	*5745.00	107.5 PK			3.00 H	42	64.8	42.7
3	*5745.00	96.6 AV			3.00 H	42	53.9	42.7
4	#5978.40	61.4 PK	68.2	-6.8	3.00 H	42	51.8	9.6
5	11490.00	64.2 PK	74.0	-9.8	2.22 H	164	42.4	21.8
6	11490.00	51.4 AV	54.0	-2.6	2.22 H	164	29.6	21.8
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	#5618.40	60.5 PK	68.2	-7.7	3.75 V	55	52.0	8.5
2	*5745.00	106.3 PK			3.75 V	55	63.6	42.7
3	*5745.00	95.5 AV			3.75 V	55	52.8	42.7
4	#5990.40	61.6 PK	68.2	-6.6	3.75 V	55	51.9	9.7
5	11490.00	63.3 PK	74.0	-10.7	2.29 V	241	41.5	21.8
6	11490.00	50.1 AV	54.0	-3.9	2.29 V	241	28.3	21.8

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 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5605.60	60.4 PK	68.2	-7.8	3.06 H	28	51.9	8.5
2	*5785.00	108.2 PK			3.06 H	28	65.5	42.7
3	*5785.00	96.5 AV			3.06 H	28	53.8	42.7
4	#5966.40	61.6 PK	68.2	-6.6	3.06 H	28	52.0	9.6
5	11570.00	65.1 PK	74.0	-8.9	1.55 H	210	43.3	21.8
6	11570.00	51.6 AV	54.0	-2.4	1.55 H	210	29.8	21.8
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	#5634.40	60.7 PK	68.2	-7.5	3.83 V	60	52.2	8.5
2	*5785.00	106.2 PK			3.83 V	60	63.5	42.7
3	*5785.00	95.5 AV			3.83 V	60	52.8	42.7
4	#5984.80	62.1 PK	68.2	-6.1	3.83 V	60	52.5	9.6
5	11570.00	63.4 PK	74.0	-10.6	1.98 V	251	41.6	21.8
6	11570.00	50.0 AV	54.0	-4.0	1.98 V	251	28.2	21.8

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 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5613.60	60.7 PK	68.2	-7.5	2.99 H	49	52.2	8.5
2	*5825.00	108.2 PK			2.99 H	49	65.3	42.9
3	*5825.00	96.9 AV			2.99 H	49	54.0	42.9
4	#5967.20	61.8 PK	68.2	-6.4	2.99 H	49	52.2	9.6
5	11650.00	64.5 PK	74.0	-9.5	2.01 H	173	43.1	21.4
6	11650.00	51.2 AV	54.0	-2.8	2.01 H	173	29.8	21.4
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	#5644.80	60.8 PK	68.2	-7.4	3.77 V	54	52.2	8.6
2	*5825.00	106.2 PK			3.77 V	54	63.3	42.9
3	*5825.00	95.2 AV			3.77 V	54	52.3	42.9
4	#5968.00	62.0 PK	68.2	-6.2	3.77 V	54	52.4	9.6
5	11650.00	63.3 PK	74.0	-10.7	1.60 V	218	41.9	21.4
6	11650.00	50.3 AV	54.0	-3.7	1.60 V	218	28.9	21.4

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 (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.7 PK	74.0	-2.3	2.71 H	16	64.3	7.4
2	5150.00	52.8 AV	54.0	-1.2	2.71 H	16	45.4	7.4
3	*5190.00	107.0 PK			2.72 H	18	65.7	41.3
4	*5190.00	95.8 AV			2.72 H	18	54.5	41.3
5	#10380.00	62.8 PK	74.0	-11.2	2.54 H	227	42.8	20.0
6	#10380.00	49.3 AV	54.0	-4.7	2.54 H	227	29.3	20.0
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	1.30 V	235	58.6	7.4
2	5150.00	49.2 AV	54.0	-4.8	1.30 V	235	41.8	7.4
3	*5190.00	101.6 PK			1.15 V	225	60.3	41.3
4	*5190.00	91.3 AV			1.15 V	225	50.0	41.3
5	#10380.00	61.2 PK	74.0	-12.8	2.64 V	118	41.2	20.0
6	#10380.00	49.1 AV	54.0	-4.9	2.64 V	118	29.1	20.0

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 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	108.3 PK			2.71 H	20	66.9	41.4
2	*5230.00	97.8 AV			2.71 H	20	56.4	41.4
3	5350.00	62.6 PK	74.0	-11.4	2.89 H	33	54.6	8.0
4	5350.00	47.2 AV	54.0	-6.8	2.89 H	33	39.2	8.0
5	#10460.00	62.8 PK	74.0	-11.2	1.93 H	220	42.6	20.2
6	#10460.00	49.6 AV	54.0	-4.4	1.93 H	220	29.4	20.2
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	102.5 PK			1.00 V	226	61.1	41.4
2	*5230.00	92.0 AV			1.00 V	226	50.6	41.4
3	5350.00	60.4 PK	74.0	-13.6	1.35 V	241	52.4	8.0
4	5350.00	46.8 AV	54.0	-7.2	1.35 V	241	38.8	8.0
5	#10460.00	61.4 PK	74.0	-12.6	3.51 V	172	41.2	20.2
6	#10460.00	48.7 AV	54.0	-5.3	3.51 V	172	28.5	20.2

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	3.02 H	28	52.0	7.4
2	5150.00	46.6 AV	54.0	-7.4	3.02 H	28	39.2	7.4
3	*5270.00	108.2 PK			2.88 H	14	66.7	41.5
4	*5270.00	97.9 AV			2.88 H	14	56.4	41.5
5	#10540.00	63.0 PK	74.0	-11.0	2.71 H	20	42.5	20.5
6	#10540.00	50.2 AV	54.0	-3.8	2.71 H	20	29.7	20.5
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	58.6 PK	74.0	-15.4	1.67 V	198	51.2	7.4
2	5150.00	45.9 AV	54.0	-8.1	1.67 V	198	38.5	7.4
3	*5270.00	105.9 PK			1.38 V	225	64.4	41.5
4	*5270.00	95.3 AV			1.38 V	225	53.8	41.5
5	#10540.00	62.3 PK	74.0	-11.7	1.63 V	338	41.8	20.5
6	#10540.00	49.4 AV	54.0	-4.6	1.63 V	338	28.9	20.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	106.3 PK			3.06 H	15	64.7	41.6
2	*5310.00	95.4 AV			3.06 H	15	53.8	41.6
3	5350.00	72.7 PK	74.0	-1.3	3.08 H	14	64.7	8.0
4	5350.00	49.4 AV	54.0	-4.6	3.08 H	14	41.4	8.0
5	10620.00	63.1 PK	74.0	-10.9	2.70 H	184	42.3	20.8
6	10620.00	50.0 AV	54.0	-4.0	2.70 H	184	29.2	20.8
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	102.4 PK			1.33 V	224	60.8	41.6
2	*5310.00	91.1 AV			1.33 V	224	49.5	41.6
3	5350.00	64.5 PK	74.0	-9.5	1.42 V	229	56.5	8.0
4	5350.00	47.3 AV	54.0	-6.7	1.42 V	229	39.3	8.0
5	10620.00	62.6 PK	74.0	-11.4	1.92 V	307	41.8	20.8
6	10620.00	49.7 AV	54.0	-4.3	1.92 V	307	28.9	20.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.6 PK	74.0	-11.4	3.54 H	19	54.4	8.2
2	5460.00	47.6 AV	54.0	-6.4	3.54 H	19	39.4	8.2
3	#5470.00	71.0 PK	74.0	-3.0	3.30 H	6	62.8	8.2
4	#5470.00	52.9 AV	54.0	-1.1	3.30 H	6	44.7	8.2
5	*5510.00	103.3 PK			3.32 H	9	61.3	42.0
6	*5510.00	92.5 AV			3.32 H	9	50.5	42.0
7	11020.00	64.1 PK	74.0	-9.9	1.87 H	254	42.8	21.3
8	11020.00	50.9 AV	54.0	-3.1	1.87 H	254	29.6	21.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.5 PK	74.0	-13.5	3.80 V	77	52.3	8.2
2	5460.00	47.0 AV	54.0	-7.0	3.80 V	77	38.8	8.2
3	#5470.00	66.0 PK	74.0	-8.0	3.81 V	59	57.8	8.2
4	#5470.00	48.7 AV	54.0	-5.3	3.81 V	59	40.5	8.2
5	*5510.00	100.5 PK			3.74 V	73	58.5	42.0
6	*5510.00	89.9 AV			3.74 V	73	47.9	42.0
7	11020.00	63.1 PK	74.0	-10.9	2.40 V	339	41.8	21.3
8	11020.00	49.6 AV	54.0	-4.4	2.40 V	339	28.3	21.3

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	104.3 PK			3.00 H	10	62.1	42.2
2	*5550.00	94.3 AV			3.00 H	10	52.1	42.2
3	11100.00	63.9 PK	74.0	-10.1	1.53 H	227	42.6	21.3
4	11100.00	51.0 AV	54.0	-3.0	1.53 H	227	29.7	21.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	102.0 PK			3.88 V	86	59.8	42.2
2	*5550.00	91.7 AV			3.88 V	86	49.5	42.2
3	11100.00	62.5 PK	74.0	-11.5	2.84 V	117	41.2	21.3
4	11100.00	49.7 AV	54.0	-4.3	2.84 V	117	28.4	21.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	103.4 PK			2.64 H	31	61.0	42.4
2	*5670.00	92.6 AV			2.64 H	31	50.2	42.4
3	#5725.00	61.4 PK	74.0	-12.6	2.75 H	40	52.7	8.7
4	#5725.00	47.9 AV	54.0	-6.1	2.75 H	40	39.2	8.7
5	11340.00	62.6 PK	74.0	-11.4	2.10 H	152	41.1	21.5
6	11340.00	49.5 AV	54.0	-4.5	2.10 H	152	28.0	21.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	101.6 PK			3.82 V	61	59.2	42.4
2	*5670.00	90.5 AV			3.82 V	61	48.1	42.4
3	#5725.00	59.9 PK	74.0	-14.1	3.77 V	55	51.2	8.7
4	#5725.00	47.4 AV	54.0	-6.6	3.77 V	55	38.7	8.7
5	11340.00	62.7 PK	74.0	-11.3	1.14 V	198	41.2	21.5
6	11340.00	50.3 AV	54.0	-3.7	1.14 V	198	28.8	21.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.80	61.5 PK	68.2	-6.7	2.90 H	42	53.0	8.5
2	*5755.00	103.8 PK			2.90 H	42	61.1	42.7
3	*5755.00	92.8 AV			2.90 H	42	50.1	42.7
4	#5996.80	61.7 PK	68.2	-6.5	2.90 H	42	52.0	9.7
5	11510.00	64.9 PK	74.0	-9.1	1.76 H	287	43.2	21.7
6	11510.00	51.6 AV	54.0	-2.4	1.76 H	287	29.9	21.7
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	#5647.20	60.2 PK	68.2	-8.0	3.72 V	59	51.6	8.6
2	*5755.00	101.8 PK			3.72 V	59	59.1	42.7
3	*5755.00	91.4 AV			3.72 V	59	48.7	42.7
4	#5979.20	61.8 PK	68.2	-6.4	3.72 V	59	52.2	9.6
5	11510.00	62.9 PK	74.0	-11.1	1.69 V	330	41.2	21.7
6	11510.00	50.3 AV	54.0	-3.7	1.69 V	330	28.6	21.7

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 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5612.80	60.9 PK	68.2	-7.3	2.80 H	40	52.4	8.5
2	*5795.00	103.6 PK			2.80 H	40	60.9	42.7
3	*5795.00	92.4 AV			2.80 H	40	49.7	42.7
4	#5947.20	61.7 PK	68.2	-6.5	2.80 H	40	52.3	9.4
5	11590.00	64.5 PK	74.0	-9.5	1.97 H	220	42.8	21.7
6	11590.00	51.3 AV	54.0	-2.7	1.97 H	220	29.6	21.7
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	#5620.00	61.2 PK	68.2	-7.0	3.70 V	58	52.7	8.5
2	*5795.00	101.5 PK			3.70 V	58	58.8	42.7
3	*5795.00	91.0 AV			3.70 V	58	48.3	42.7
4	#5952.80	62.3 PK	68.2	-5.9	3.70 V	58	52.9	9.4
5	11590.00	63.6 PK	74.0	-10.4	1.97 V	301	41.9	21.7
6	11590.00	50.4 AV	54.0	-3.6	1.97 V	301	28.7	21.7

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.

802.11ac (VHT80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	2.99 H	35	53.2	7.4
2	5150.00	48.0 AV	54.0	-6.0	2.99 H	35	40.6	7.4
3	*5210.00	101.1 PK			2.81 H	21	59.7	41.4
4	*5210.00	90.8 AV			2.81 H	21	49.4	41.4
5	5350.00	59.5 PK	74.0	-14.5	2.57 H	15	51.5	8.0
6	5350.00	47.7 AV	54.0	-6.3	2.57 H	15	39.7	8.0
7	#10420.00	62.8 PK	74.0	-11.2	2.72 H	28	42.8	20.0
8	#10420.00	49.7 AV	54.0	-4.3	2.72 H	28	29.7	20.0
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	59.5 PK	74.0	-14.5	1.27 V	239	52.1	7.4
2	5150.00	46.3 AV	54.0	-7.7	1.27 V	239	38.9	7.4
3	*5210.00	96.0 PK			1.10 V	225	54.6	41.4
4	*5210.00	85.1 AV			1.10 V	225	43.7	41.4
5	5350.00	49.8 PK	74.0	-24.2	1.02 V	214	41.8	8.0
6	5350.00	46.8 AV	54.0	-7.2	1.02 V	214	38.8	8.0
7	#10420.00	61.8 PK	74.0	-12.2	2.31 V	187	41.8	20.0
8	#10420.00	48.6 AV	54.0	-5.4	2.31 V	187	28.6	20.0

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	3.28 H	18	53.4	7.4
2	5150.00	46.6 AV	54.0	-7.4	3.28 H	18	39.2	7.4
3	*5290.00	100.7 PK			3.19 H	16	59.2	41.5
4	*5290.00	90.2 AV			3.19 H	16	48.7	41.5
5	5350.00	60.7 PK	74.0	-13.3	2.99 H	37	52.7	8.0
6	5350.00	47.1 AV	54.0	-6.9	2.99 H	37	39.1	8.0
7	#10580.00	63.3 PK	74.0	-10.7	2.44 H	199	42.7	20.6
8	#10580.00	50.4 AV	54.0	-3.6	2.44 H	199	29.8	20.6
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	58.7 PK	74.0	-15.3	1.35 V	249	51.3	7.4
2	5150.00	45.6 AV	54.0	-8.4	1.35 V	249	38.2	7.4
3	*5290.00	95.9 PK			1.26 V	225	54.4	41.5
4	*5290.00	85.5 AV			1.26 V	225	44.0	41.5
5	5350.00	60.1 PK	74.0	-13.9	1.18 V	221	52.1	8.0
6	5350.00	46.7 AV	54.0	-7.3	1.18 V	221	38.7	8.0
7	#10580.00	62.3 PK	74.0	-11.7	1.29 V	283	41.7	20.6
8	#10580.00	49.0 AV	54.0	-5.0	1.29 V	283	28.4	20.6

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.3 PK	74.0	-13.7	2.58 H	33	52.1	8.2
2	5460.00	47.1 AV	54.0	-6.9	2.58 H	33	38.9	8.2
3	#5470.00	62.8 PK	74.0	-11.2	2.78 H	16	54.6	8.2
4	#5470.00	48.5 AV	54.0	-5.5	2.78 H	16	40.3	8.2
5	*5530.00	97.4 PK			2.73 H	9	55.3	42.1
6	*5530.00	86.2 AV			2.73 H	9	44.1	42.1
7	#5725.00	61.6 PK	74.0	-12.4	2.88 H	24	52.9	8.7
8	#5725.00	47.8 AV	54.0	-6.2	2.88 H	24	39.1	8.7
9	11060.00	64.1 PK	74.0	-9.9	2.20 H	182	42.8	21.3
10	11060.00	50.7 AV	54.0	-3.3	2.20 H	182	29.4	21.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.0 PK	74.0	-14.0	3.87 V	24	51.8	8.2
2	5460.00	46.6 AV	54.0	-7.4	3.87 V	24	38.4	8.2
3	#5470.00	61.6 PK	74.0	-12.4	3.85 V	42	53.4	8.2
4	#5470.00	47.9 AV	54.0	-6.1	3.85 V	42	39.7	8.2
5	*5530.00	96.3 PK			3.95 V	37	54.2	42.1
6	*5530.00	85.3 AV			3.95 V	37	43.2	42.1
7	#5725.00	60.0 PK	74.0	-14.0	3.91 V	36	51.3	8.7
8	#5725.00	47.1 AV	54.0	-6.9	3.91 V	36	38.4	8.7
9	11060.00	62.9 PK	74.0	-11.1	1.35 V	279	41.6	21.3
10	11060.00	49.7 AV	54.0	-4.3	1.35 V	279	28.4	21.3

Remarks:

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

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5607.20	61.2 PK	68.2	-7.0	2.77 H	41	52.7	8.5
2	*5775.00	96.5 PK			2.77 H	41	53.8	42.7
3	*5775.00	85.8 AV			2.77 H	41	43.1	42.7
4	#5987.20	62.2 PK	68.2	-6.0	2.77 H	41	52.5	9.7
5	11550.00	64.1 PK	74.0	-9.9	1.17 H	249	42.3	21.8
6	11550.00	51.0 AV	54.0	-3.0	1.17 H	249	29.2	21.8
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	#5638.40	61.8 PK	68.2	-6.4	4.00 V	61	53.3	8.5
2	*5775.00	94.5 PK			4.00 V	61	51.8	42.7
3	*5775.00	83.7 AV			4.00 V	61	41.0	42.7
4	#5987.20	61.9 PK	68.2	-6.3	4.00 V	61	52.2	9.7
5	11550.00	63.3 PK	74.0	-10.7	2.44 V	189	41.5	21.8
6	11550.00	50.4 AV	54.0	-3.6	2.44 V	189	28.6	21.8

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.

Test Mode B

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.5 PK	74.0	-12.5	2.99 H	41	57.6	3.9
2	5150.00	48.1 AV	54.0	-5.9	2.99 H	41	44.2	3.9
3	*5180.00	110.1 PK			2.91 H	16	69.4	40.7
4	*5180.00	99.8 AV			2.91 H	16	59.1	40.7
5	#10360.00	58.2 PK	74.0	-15.8	2.73 H	48	42.7	15.5
6	#10360.00	46.4 AV	54.0	-7.6	2.73 H	48	30.9	15.5
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	57.3 PK	74.0	-16.7	1.38 V	244	53.4	3.9
2	5150.00	44.1 AV	54.0	-9.9	1.38 V	244	40.2	3.9
3	*5180.00	103.8 PK			1.19 V	229	63.1	40.7
4	*5180.00	93.2 AV			1.19 V	229	52.5	40.7
5	#10360.00	56.3 PK	74.0	-17.7	2.87 V	124	40.8	15.5
6	#10360.00	44.9 AV	54.0	-9.1	2.87 V	124	29.4	15.5

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 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	111.3 PK			3.35 H	360	70.5	40.8
2	*5200.00	101.1 AV			3.35 H	360	60.3	40.8
3	#10400.00	58.3 PK	74.0	-15.7	3.72 H	142	42.8	15.5
4	#10400.00	46.1 AV	54.0	-7.9	3.72 H	142	30.6	15.5
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	104.7 PK			1.39 V	226	63.9	40.8
2	*5200.00	94.6 AV			1.39 V	226	53.8	40.8
3	#10400.00	56.3 PK	74.0	-17.7	2.37 V	101	40.8	15.5
4	#10400.00	44.9 AV	54.0	-9.1	2.37 V	101	29.4	15.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.9 PK			3.37 H	19	71.1	40.8
2	*5240.00	101.3 AV			3.37 H	19	60.5	40.8
3	5350.00	56.3 PK	74.0	-17.7	3.09 H	345	51.9	4.4
4	5350.00	43.4 AV	54.0	-10.6	3.09 H	345	39.0	4.4
5	#10480.00	57.3 PK	74.0	-16.7	3.17 H	49	42.2	15.1
6	#10480.00	45.4 AV	54.0	-8.6	3.17 H	49	30.3	15.1
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	105.2 PK			1.49 V	218	64.4	40.8
2	*5240.00	94.9 AV			1.49 V	218	54.1	40.8
3	5350.00	55.7 PK	74.0	-18.3	1.57 V	226	51.3	4.4
4	5350.00	43.5 AV	54.0	-10.5	1.57 V	226	39.1	4.4
5	#10480.00	55.9 PK	74.0	-18.1	1.37 V	272	40.8	15.1
6	#10480.00	44.5 AV	54.0	-9.5	1.37 V	272	29.4	15.1

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	2.87 H	54	51.5	3.9
2	5150.00	43.4 AV	54.0	-10.6	2.87 H	54	39.5	3.9
3	*5260.00	112.3 PK			3.04 H	25	71.4	40.9
4	*5260.00	101.6 AV			3.04 H	25	60.7	40.9
5	#10520.00	56.5 PK	74.0	-17.5	3.12 H	146	41.3	15.2
6	#10520.00	45.8 AV	54.0	-8.2	3.12 H	146	30.6	15.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	1.43 V	255	51.4	3.9
2	5150.00	43.0 AV	54.0	-11.0	1.43 V	255	39.1	3.9
3	*5260.00	105.1 PK			1.22 V	238	64.2	40.9
4	*5260.00	94.7 AV			1.22 V	238	53.8	40.9
5	#10520.00	56.1 PK	74.0	-17.9	3.24 V	94	40.9	15.2
6	#10520.00	44.5 AV	54.0	-9.5	3.24 V	94	29.3	15.2

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	111.3 PK			2.96 H	27	70.3	41.0
2	*5300.00	100.9 AV			2.96 H	27	59.9	41.0
3	10600.00	57.8 PK	74.0	-16.2	2.87 H	154	41.7	16.1
4	10600.00	46.5 AV	54.0	-7.5	2.87 H	154	30.4	16.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	104.6 PK			1.37 V	261	63.6	41.0
2	*5300.00	94.0 AV			1.37 V	261	53.0	41.0
3	10600.00	56.8 PK	74.0	-17.2	3.38 V	251	40.7	16.1
4	10600.00	45.5 AV	54.0	-8.5	3.38 V	251	29.4	16.1

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	110.9 PK			3.07 H	18	69.9	41.0
2	*5320.00	100.5 AV			3.07 H	18	59.5	41.0
3	5350.00	61.4 PK	74.0	-12.6	3.16 H	19	57.0	4.4
4	5350.00	47.9 AV	54.0	-6.1	3.16 H	19	43.5	4.4
5	10640.00	57.1 PK	74.0	-16.9	3.14 H	256	41.1	16.0
6	10640.00	46.5 AV	54.0	-7.5	3.14 H	256	30.5	16.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	104.1 PK			1.53 V	239	63.1	41.0
2	*5320.00	93.8 AV			1.53 V	239	52.8	41.0
3	5350.00	56.3 PK	74.0	-17.7	1.43 V	225	51.9	4.4
4	5350.00	44.2 AV	54.0	-9.8	1.43 V	225	39.8	4.4
5	10640.00	56.8 PK	74.0	-17.2	1.82 V	326	40.8	16.0
6	10640.00	45.6 AV	54.0	-8.4	1.82 V	326	29.6	16.0

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.7 PK	74.0	-14.3	1.55 H	198	55.3	4.4
2	5460.00	44.2 AV	54.0	-9.8	1.55 H	198	39.8	4.4
3	#5470.00	63.8 PK	74.0	-10.2	1.49 H	195	59.3	4.5
4	#5470.00	46.8 AV	54.0	-7.2	1.49 H	195	42.3	4.5
5	*5500.00	109.9 PK			1.26 H	192	68.6	41.3
6	*5500.00	99.1 AV			1.26 H	192	57.8	41.3
7	11000.00	58.3 PK	74.0	-15.7	1.68 H	145	40.8	17.5
8	11000.00	44.7 AV	54.0	-9.3	1.68 H	145	27.2	17.5
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	57.7 PK	74.0	-16.3	2.07 V	343	53.3	4.4
2	5460.00	44.5 AV	54.0	-9.5	2.07 V	343	40.1	4.4
3	#5470.00	59.7 PK	74.0	-14.3	1.00 V	336	55.2	4.5
4	#5470.00	45.8 AV	54.0	-8.2	1.00 V	336	41.3	4.5
5	*5500.00	104.3 PK			1.00 V	336	63.0	41.3
6	*5500.00	94.1 AV			1.00 V	336	52.8	41.3
7	11000.00	58.8 PK	74.0	-15.2	1.49 V	109	41.3	17.5
8	11000.00	45.2 AV	54.0	-8.8	1.49 V	109	27.7	17.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	110.2 PK			1.24 H	195	68.7	41.5
2	*5580.00	100.0 AV			1.24 H	195	58.5	41.5
3	11160.00	56.7 PK	74.0	-17.3	1.71 H	102	40.3	16.4
4	11160.00	44.0 AV	54.0	-10.0	1.71 H	102	27.6	16.4
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	105.2 PK			1.00 V	340	63.7	41.5
2	*5580.00	95.5 AV			1.00 V	340	54.0	41.5
3	11160.00	55.9 PK	74.0	-18.1	1.96 V	303	39.5	16.4
4	11160.00	45.3 AV	54.0	-8.7	1.96 V	303	28.9	16.4

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.7 PK			1.00 H	184	69.1	41.6
2	*5700.00	100.3 AV			1.00 H	184	58.7	41.6
3	#5725.00	64.9 PK	74.0	-9.1	1.08 H	181	60.1	4.8
4	#5725.00	47.4 AV	54.0	-6.6	1.08 H	181	42.6	4.8
5	11400.00	61.2 PK	74.0	-12.8	1.00 H	157	45.0	16.2
6	11400.00	46.9 AV	54.0	-7.1	1.00 H	157	30.7	16.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	105.5 PK			1.00 V	351	63.9	41.6
2	*5700.00	95.4 AV			1.00 V	351	53.8	41.6
3	#5725.00	63.6 PK	74.0	-10.4	3.81 V	36	58.8	4.8
4	#5725.00	46.8 AV	54.0	-7.2	3.81 V	36	42.0	4.8
5	11400.00	58.0 PK	74.0	-16.0	1.37 V	87	41.8	16.2
6	11400.00	45.5 AV	54.0	-8.5	1.37 V	87	29.3	16.2

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5640.80	58.6 PK	68.2	-9.6	1.13 H	184	53.9	4.7
2	*5745.00	111.5 PK			1.13 H	184	70.0	41.5
3	*5745.00	100.6 AV			1.13 H	184	59.1	41.5
4	#5960.80	58.4 PK	68.2	-9.8	1.13 H	184	53.6	4.8
5	11490.00	57.5 PK	74.0	-16.5	2.38 H	159	41.5	16.0
6	11490.00	46.6 AV	54.0	-7.4	2.38 H	159	30.6	16.0
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	#5616.80	57.9 PK	68.2	-10.3	1.00 V	344	53.1	4.8
2	*5745.00	104.5 PK			1.00 V	344	63.0	41.5
3	*5745.00	94.3 AV			1.00 V	344	52.8	41.5
4	#5926.40	57.7 PK	68.2	-10.5	1.00 V	344	52.9	4.8
5	11490.00	56.6 PK	74.0	-17.4	3.74 V	108	40.6	16.0
6	11490.00	45.4 AV	54.0	-8.6	3.74 V	108	29.4	16.0

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 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5600.80	58.2 PK	68.2	-10.0	1.14 H	184	53.4	4.8
2	*5785.00	110.0 PK			1.14 H	184	68.5	41.5
3	*5785.00	99.8 AV			1.14 H	184	58.3	41.5
4	#5982.40	57.9 PK	68.2	-10.3	1.14 H	184	53.1	4.8
5	11570.00	57.3 PK	74.0	-16.7	2.58 H	317	41.6	15.7
6	11570.00	46.4 AV	54.0	-7.6	2.58 H	317	30.7	15.7
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	#5615.20	57.6 PK	68.2	-10.6	1.00 V	343	52.8	4.8
2	*5785.00	104.0 PK			1.00 V	343	62.5	41.5
3	*5785.00	93.8 AV			1.00 V	343	52.3	41.5
4	#5981.60	57.6 PK	68.2	-10.6	1.00 V	343	52.8	4.8
5	11570.00	56.5 PK	74.0	-17.5	2.07 V	310	40.8	15.7
6	11570.00	45.1 AV	54.0	-8.9	2.07 V	310	29.4	15.7

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 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5607.20	58.1 PK	68.2	-10.1	1.19 H	183	53.3	4.8
2	*5825.00	109.5 PK			1.19 H	183	67.9	41.6
3	*5825.00	99.3 AV			1.19 H	183	57.7	41.6
4	#5943.20	56.7 PK	68.2	-11.5	1.19 H	183	51.9	4.8
5	11650.00	57.3 PK	74.0	-16.7	3.09 H	117	41.7	15.6
6	11650.00	46.4 AV	54.0	-7.6	3.09 H	117	30.8	15.6
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	#5604.80	57.9 PK	68.2	-10.3	1.04 V	263	53.1	4.8
2	*5825.00	104.5 PK			1.04 V	263	62.9	41.6
3	*5825.00	94.3 AV			1.04 V	263	52.7	41.6
4	#5998.40	57.7 PK	68.2	-10.5	1.04 V	263	52.9	4.8
5	11650.00	56.4 PK	74.0	-17.6	1.90 V	104	40.8	15.6
6	11650.00	45.2 AV	54.0	-8.8	1.90 V	104	29.6	15.6

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 (HT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	3.04 H	13	58.0	3.9
2	5150.00	49.3 AV	54.0	-4.7	3.04 H	13	45.4	3.9
3	*5180.00	111.3 PK			2.96 H	19	70.6	40.7
4	*5180.00	100.9 AV			2.96 H	19	60.2	40.7
5	#10360.00	57.7 PK	74.0	-16.3	2.17 H	152	42.2	15.5
6	#10360.00	45.9 AV	54.0	-8.1	2.17 H	152	30.4	15.5
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	56.8 PK	74.0	-17.2	1.47 V	243	52.9	3.9
2	5150.00	44.4 AV	54.0	-9.6	1.47 V	243	40.5	3.9
3	*5180.00	114.6 PK			1.24 V	235	73.9	40.7
4	*5180.00	94.3 AV			1.24 V	235	53.6	40.7
5	#10360.00	56.2 PK	74.0	-17.8	3.82 V	211	40.7	15.5
6	#10360.00	44.9 AV	54.0	-9.1	3.82 V	211	29.4	15.5

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 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	111.7 PK			3.08 H	19	70.9	40.8
2	*5200.00	100.9 AV			3.08 H	19	60.1	40.8
3	#10400.00	57.2 PK	74.0	-16.8	2.88 H	173	41.7	15.5
4	#10400.00	46.1 AV	54.0	-7.9	2.88 H	173	30.6	15.5
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	104.6 PK			1.23 V	231	63.8	40.8
2	*5200.00	94.4 AV			1.23 V	231	53.6	40.8
3	#10400.00	56.3 PK	74.0	-17.7	1.39 V	224	40.8	15.5
4	#10400.00	45.2 AV	54.0	-8.8	1.39 V	224	29.7	15.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.6 PK			3.00 H	41	70.8	40.8
2	*5240.00	101.1 AV			3.00 H	41	60.3	40.8
3	5350.00	55.7 PK	74.0	-18.3	2.76 H	17	51.3	4.4
4	5350.00	43.5 AV	54.0	-10.5	2.76 H	17	39.1	4.4
5	#10480.00	57.4 PK	74.0	-16.6	1.78 H	234	42.3	15.1
6	#10480.00	45.6 AV	54.0	-8.4	1.78 H	234	30.5	15.1
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	105.0 PK			1.47 V	254	64.2	40.8
2	*5240.00	94.7 AV			1.47 V	254	53.9	40.8
3	5350.00	56.3 PK	74.0	-17.7	1.57 V	271	51.9	4.4
4	5350.00	43.2 AV	54.0	-10.8	1.57 V	271	38.8	4.4
5	#10480.00	56.3 PK	74.0	-17.7	3.72 V	132	41.2	15.1
6	#10480.00	44.8 AV	54.0	-9.2	3.72 V	132	29.7	15.1

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.0 PK	74.0	-18.0	1.49 H	239	52.1	3.9
2	5150.00	43.5 AV	54.0	-10.5	1.49 H	239	39.6	3.9
3	*5260.00	110.8 PK			1.31 H	220	69.9	40.9
4	*5260.00	100.7 AV			1.31 H	220	59.8	40.9
5	#10520.00	56.5 PK	74.0	-17.5	3.29 H	124	41.3	15.2
6	#10520.00	45.8 AV	54.0	-8.2	3.29 H	124	30.6	15.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.2 PK	74.0	-18.8	1.24 V	12	51.3	3.9
2	5150.00	43.0 AV	54.0	-11.0	1.24 V	12	39.1	3.9
3	*5260.00	106.7 PK			1.14 V	1	65.8	40.9
4	*5260.00	96.6 AV			1.14 V	1	55.7	40.9
5	#10520.00	55.9 PK	74.0	-18.1	1.52 V	247	40.7	15.2
6	#10520.00	44.6 AV	54.0	-9.4	1.52 V	247	29.4	15.2

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	110.8 PK			1.21 H	218	69.8	41.0
2	*5300.00	100.2 AV			1.21 H	218	59.2	41.0
3	10600.00	57.3 PK	74.0	-16.7	2.64 H	134	41.2	16.1
4	10600.00	46.9 AV	54.0	-7.1	2.64 H	134	30.8	16.1
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	106.2 PK			1.58 V	243	65.2	41.0
2	*5300.00	95.9 AV			1.58 V	243	54.9	41.0
3	10600.00	56.7 PK	74.0	-17.3	1.98 V	161	40.6	16.1
4	10600.00	45.6 AV	54.0	-8.4	1.98 V	161	29.5	16.1

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	110.7 PK			1.25 H	218	69.7	41.0
2	*5320.00	100.1 AV			1.25 H	218	59.1	41.0
3	5350.00	60.4 PK	74.0	-13.6	1.40 H	216	56.0	4.4
4	5350.00	48.6 AV	54.0	-5.4	1.40 H	216	44.2	4.4
5	10640.00	57.5 PK	74.0	-16.5	2.58 H	142	41.5	16.0
6	10640.00	46.6 AV	54.0	-7.4	2.58 H	142	30.6	16.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	105.8 PK			1.79 V	203	64.8	41.0
2	*5320.00	95.7 AV			1.79 V	203	54.7	41.0
3	5350.00	56.1 PK	74.0	-17.9	1.86 V	221	51.7	4.4
4	5350.00	44.2 AV	54.0	-9.8	1.86 V	221	39.8	4.4
5	10640.00	56.3 PK	74.0	-17.7	3.81 V	176	40.3	16.0
6	10640.00	45.8 AV	54.0	-8.2	3.81 V	176	29.8	16.0

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	58.7 PK	74.0	-15.3	1.00 H	210	54.3	4.4
2	5460.00	44.1 AV	54.0	-9.9	1.00 H	210	39.7	4.4
3	#5470.00	65.9 PK	74.0	-8.1	1.15 H	207	61.4	4.5
4	#5470.00	47.6 AV	54.0	-6.4	1.15 H	207	43.1	4.5
5	*5500.00	110.0 PK			1.11 H	200	68.7	41.3
6	*5500.00	99.3 AV			1.11 H	200	58.0	41.3
7	11000.00	58.5 PK	74.0	-15.5	2.11 H	239	41.0	17.5
8	11000.00	48.0 AV	54.0	-6.0	2.11 H	239	30.5	17.5
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	55.3 PK	74.0	-18.7	1.18 V	353	50.9	4.4
2	5460.00	43.6 AV	54.0	-10.4	1.18 V	353	39.2	4.4
3	#5470.00	61.4 PK	74.0	-12.6	1.02 V	343	56.9	4.5
4	#5470.00	45.9 AV	54.0	-8.1	1.02 V	343	41.4	4.5
5	*5500.00	106.1 PK			1.01 V	342	64.8	41.3
6	*5500.00	95.6 AV			1.01 V	342	54.3	41.3
7	11000.00	58.4 PK	74.0	-15.6	3.47 V	125	40.9	17.5
8	11000.00	46.9 AV	54.0	-7.1	3.47 V	125	29.4	17.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	110.7 PK			1.10 H	200	69.2	41.5
2	*5580.00	100.3 AV			1.10 H	200	58.8	41.5
3	11160.00	57.5 PK	74.0	-16.5	1.00 H	139	41.1	16.4
4	11160.00	47.2 AV	54.0	-6.8	1.00 H	139	30.8	16.4
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	106.6 PK			1.03 V	354	65.1	41.5
2	*5580.00	96.2 AV			1.03 V	354	54.7	41.5
3	11160.00	57.2 PK	74.0	-16.8	2.76 V	174	40.8	16.4
4	11160.00	46.0 AV	54.0	-8.0	2.76 V	174	29.6	16.4

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.8 PK			1.18 H	192	69.2	41.6
2	*5700.00	100.2 AV			1.18 H	192	58.6	41.6
3	#5725.00	63.5 PK	74.0	-10.5	1.22 H	197	58.7	4.8
4	#5725.00	49.6 AV	54.0	-4.4	1.22 H	197	44.8	4.8
5	11400.00	58.4 PK	74.0	-15.6	2.39 H	89	42.2	16.2
6	11400.00	46.7 AV	54.0	-7.3	2.39 H	89	30.5	16.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.2 PK			1.12 V	344	64.6	41.6
2	*5700.00	95.8 AV			1.12 V	344	54.2	41.6
3	#5725.00	57.4 PK	74.0	-16.6	1.43 V	349	52.6	4.8
4	#5725.00	44.9 AV	54.0	-9.1	1.43 V	349	40.1	4.8
5	11400.00	57.0 PK	74.0	-17.0	3.42 V	215	40.8	16.2
6	11400.00	45.8 AV	54.0	-8.2	3.42 V	215	29.6	16.2

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.00	58.1 PK	68.2	-10.1	1.10 H	186	53.4	4.7
2	*5745.00	110.3 PK			1.10 H	186	68.8	41.5
3	*5745.00	100.0 AV			1.10 H	186	58.5	41.5
4	#5960.80	58.5 PK	68.2	-9.7	1.10 H	186	53.7	4.8
5	11490.00	57.7 PK	74.0	-16.3	3.12 H	207	41.7	16.0
6	11490.00	46.5 AV	54.0	-7.5	3.12 H	207	30.5	16.0
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	#5601.60	58.0 PK	68.2	-10.2	1.00 V	342	53.2	4.8
2	*5745.00	106.2 PK			1.00 V	342	64.7	41.5
3	*5745.00	95.5 AV			1.00 V	342	54.0	41.5
4	#5981.60	59.8 PK	68.2	-8.4	1.00 V	342	55.0	4.8
5	11490.00	56.6 PK	74.0	-17.4	1.97 V	314	40.6	16.0
6	11490.00	45.3 AV	54.0	-8.7	1.97 V	314	29.3	16.0

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 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5622.40	58.6 PK	68.2	-9.6	1.20 H	188	53.8	4.8
2	*5785.00	109.9 PK			1.20 H	188	68.4	41.5
3	*5785.00	99.2 AV			1.20 H	188	57.7	41.5
4	#5948.80	57.8 PK	68.2	-10.4	1.20 H	188	53.0	4.8
5	11570.00	57.1 PK	74.0	-16.9	2.83 H	142	41.4	15.7
6	11570.00	46.3 AV	54.0	-7.7	2.83 H	142	30.6	15.7
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	#5606.40	58.3 PK	68.2	-9.9	1.02 V	350	53.5	4.8
2	*5785.00	103.9 PK			1.02 V	350	62.4	41.5
3	*5785.00	94.0 AV			1.02 V	350	52.5	41.5
4	#5988.00	59.0 PK	68.2	-9.2	1.02 V	350	54.2	4.8
5	11570.00	56.9 PK	74.0	-17.1	1.37 V	251	41.2	15.7
6	11570.00	46.8 AV	54.0	-7.2	1.37 V	251	31.1	15.7

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 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5638.40	57.9 PK	68.2	-10.3	1.10 H	196	53.2	4.7
2	*5825.00	108.7 PK			1.10 H	196	67.1	41.6
3	*5825.00	98.5 AV			1.10 H	196	56.9	41.6
4	#5950.40	58.5 PK	68.2	-9.7	1.10 H	196	53.7	4.8
5	11650.00	57.1 PK	74.0	-16.9	3.09 H	114	41.5	15.6
6	11650.00	46.4 AV	54.0	-7.6	3.09 H	114	30.8	15.6
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	#5636.00	58.7 PK	68.2	-9.5	1.01 V	357	54.0	4.7
2	*5825.00	103.5 PK			1.01 V	357	61.9	41.6
3	*5825.00	93.3 AV			1.01 V	357	51.7	41.6
4	#5991.20	59.2 PK	68.2	-9.0	1.01 V	357	54.4	4.8
5	11650.00	57.3 PK	74.0	-16.7	3.71 V	256	41.7	15.6
6	11650.00	46.4 AV	54.0	-7.6	3.71 V	256	30.8	15.6

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 (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.9 PK	74.0	-6.1	3.17 H	19	64.0	3.9
2	5150.00	52.3 AV	54.0	-1.7	3.17 H	19	48.4	3.9
3	*5190.00	105.6 PK			3.05 H	19	64.8	40.8
4	*5190.00	95.3 AV			3.05 H	19	54.5	40.8
5	#10380.00	57.8 PK	74.0	-16.2	2.86 H	157	42.2	15.6
6	#10380.00	46.0 AV	54.0	-8.0	2.86 H	157	30.4	15.6
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	62.3 PK	74.0	-11.7	1.58 V	261	58.4	3.9
2	5150.00	46.0 AV	54.0	-8.0	1.58 V	261	42.1	3.9
3	*5190.00	99.3 PK			1.36 V	255	58.5	40.8
4	*5190.00	89.0 AV			1.36 V	255	48.2	40.8
5	#10380.00	56.4 PK	74.0	-17.6	3.17 V	244	40.8	15.6
6	#10380.00	45.1 AV	54.0	-8.9	3.17 V	244	29.5	15.6

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 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	106.6 PK			2.88 H	45	65.8	40.8
2	*5230.00	95.9 AV			2.88 H	45	55.1	40.8
3	5350.00	55.5 PK	74.0	-18.5	3.15 H	73	51.1	4.4
4	5350.00	43.5 AV	54.0	-10.5	3.15 H	73	39.1	4.4
5	#10460.00	57.5 PK	74.0	-16.5	3.42 H	117	42.3	15.2
6	#10460.00	45.9 AV	54.0	-8.1	3.42 H	117	30.7	15.2
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	99.7 PK			1.29 V	255	58.9	40.8
2	*5230.00	89.4 AV			1.29 V	255	48.6	40.8
3	5350.00	55.2 PK	74.0	-18.8	1.62 V	266	50.8	4.4
4	5350.00	43.1 AV	54.0	-10.9	1.62 V	266	38.7	4.4
5	#10460.00	56.1 PK	74.0	-17.9	1.94 V	28	40.9	15.2
6	#10460.00	45.0 AV	54.0	-9.0	1.94 V	28	29.8	15.2

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	1.52 H	249	51.8	3.9
2	5150.00	43.3 AV	54.0	-10.7	1.52 H	249	39.4	3.9
3	*5270.00	104.5 PK			1.31 H	221	63.6	40.9
4	*5270.00	94.4 AV			1.31 H	221	53.5	40.9
5	#10540.00	56.9 PK	74.0	-17.1	3.48 H	194	41.5	15.4
6	#10540.00	45.8 AV	54.0	-8.2	3.48 H	194	30.4	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.24 V	342	51.2	3.9
2	5150.00	42.5 AV	54.0	-11.5	1.24 V	342	38.6	3.9
3	*5270.00	102.8 PK			1.10 V	358	61.8	41.0
4	*5270.00	92.4 AV			1.10 V	358	51.4	41.0
5	#10540.00	56.2 PK	74.0	-17.8	3.54 V	172	40.8	15.4
6	#10540.00	45.1 AV	54.0	-8.9	3.54 V	172	29.7	15.4

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.7 PK			1.28 H	220	62.7	41.0
2	*5310.00	93.3 AV			1.28 H	220	52.3	41.0
3	5350.00	67.9 PK	74.0	-6.1	1.32 H	217	63.5	4.4
4	5350.00	52.6 AV	54.0	-1.4	1.32 H	217	48.2	4.4
5	10620.00	57.3 PK	74.0	-16.7	3.18 H	167	41.3	16.0
6	10620.00	46.4 AV	54.0	-7.6	3.18 H	167	30.4	16.0
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	101.4 PK			1.39 V	324	60.4	41.0
2	*5310.00	91.1 AV			1.39 V	324	50.1	41.0
3	5350.00	65.2 PK	74.0	-8.8	1.62 V	339	60.8	4.4
4	5350.00	50.0 AV	54.0	-4.0	1.62 V	339	45.6	4.4
5	10620.00	56.6 PK	74.0	-17.4	1.93 V	317	40.6	16.0
6	10620.00	45.7 AV	54.0	-8.3	1.93 V	317	29.7	16.0

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.3 PK	74.0	-13.7	1.30 H	203	55.9	4.4
2	5460.00	47.2 AV	54.0	-6.8	1.30 H	203	42.8	4.4
3	#5470.00	70.3 PK	74.0	-3.7	1.17 H	194	65.8	4.5
4	**#5470.00**	**53.3 AV**	**54.0**	**-0.7**	**1.17 H**	**194**	**48.8**	**4.5**
5	*5510.00	104.3 PK			1.19 H	195	63.0	41.3
6	*5510.00	94.8 AV			1.19 H	195	53.5	41.3
7	11020.00	59.0 PK	74.0	-15.0	3.17 H	152	41.8	17.2
8	11020.00	47.6 AV	54.0	-6.4	3.17 H	152	30.4	17.2
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	57.3 PK	74.0	-16.7	1.26 V	342	52.9	4.4
2	5460.00	45.5 AV	54.0	-8.5	1.26 V	342	41.1	4.4
3	#5470.00	64.0 PK	74.0	-10.0	1.05 V	335	59.5	4.5
4	#5470.00	49.4 AV	54.0	-4.6	1.05 V	335	44.9	4.5
5	*5510.00	100.8 PK			1.00 V	336	59.5	41.3
6	*5510.00	90.6 AV			1.00 V	336	49.3	41.3
7	11020.00	57.9 PK	74.0	-16.1	2.91 V	224	40.7	17.2
8	11020.00	46.5 AV	54.0	-7.5	2.91 V	224	29.3	17.2

Remarks:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	105.4 PK			1.19 H	192	63.9	41.5
2	*5550.00	95.1 AV			1.19 H	192	53.6	41.5
3	11100.00	58.0 PK	74.0	-16.0	1.87 H	315	41.6	16.4
4	11100.00	46.7 AV	54.0	-7.3	1.87 H	315	30.3	16.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	101.3 PK			1.01 V	332	59.8	41.5
2	*5550.00	90.7 AV			1.01 V	332	49.2	41.5
3	11100.00	57.2 PK	74.0	-16.8	3.21 V	185	40.8	16.4
4	11100.00	45.8 AV	54.0	-8.2	3.21 V	185	29.4	16.4

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	105.8 PK			1.22 H	191	64.3	41.5
2	*5670.00	95.2 AV			1.22 H	191	53.7	41.5
3	#5725.00	56.7 PK	74.0	-17.3	1.35 H	209	51.9	4.8
4	#5725.00	45.6 AV	54.0	-8.4	1.35 H	209	40.8	4.8
5	11340.00	58.3 PK	74.0	-15.7	3.61 H	125	41.7	16.6
6	11340.00	47.2 AV	54.0	-6.8	3.61 H	125	30.6	16.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	101.3 PK			1.00 V	336	59.8	41.5
2	*5670.00	90.8 AV			1.00 V	336	49.3	41.5
3	#5725.00	55.6 PK	74.0	-18.4	1.04 V	342	50.8	4.8
4	#5725.00	44.4 AV	54.0	-9.6	1.04 V	342	39.6	4.8
5	11340.00	57.4 PK	74.0	-16.6	3.38 V	327	40.8	16.6
6	11340.00	46.3 AV	54.0	-7.7	3.38 V	327	29.7	16.6

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5608.00	58.7 PK	68.2	-9.5	1.14 H	195	53.9	4.8
2	*5755.00	105.3 PK			1.14 H	195	63.8	41.5
3	*5755.00	95.0 AV			1.14 H	195	53.5	41.5
4	#5992.00	58.7 PK	68.2	-9.5	1.14 H	195	53.9	4.8
5	11510.00	58.5 PK	74.0	-15.5	2.67 H	124	42.6	15.9
6	11510.00	47.3 AV	54.0	-6.7	2.67 H	124	31.4	15.9
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	#5607.20	58.5 PK	68.2	-9.7	1.00 V	350	53.7	4.8
2	*5755.00	100.7 PK			1.00 V	350	59.2	41.5
3	*5755.00	90.3 AV			1.00 V	350	48.8	41.5
4	#5965.60	58.1 PK	68.2	-10.1	1.00 V	350	53.3	4.8
5	11510.00	57.2 PK	74.0	-16.8	2.83 V	109	41.3	15.9
6	11510.00	46.5 AV	54.0	-7.5	2.83 V	109	30.6	15.9

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 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5642.40	58.5 PK	68.2	-9.7	1.09 H	184	53.8	4.7
2	*5795.00	104.5 PK			1.09 H	184	63.0	41.5
3	*5795.00	94.4 AV			1.09 H	184	52.9	41.5
4	#5942.40	58.0 PK	68.2	-10.2	1.09 H	184	53.2	4.8
5	11590.00	57.1 PK	74.0	-16.9	3.65 H	207	41.6	15.5
6	11590.00	46.3 AV	54.0	-7.7	3.65 H	207	30.8	15.5
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	#5602.40	58.4 PK	68.2	-9.8	1.00 V	356	53.6	4.8
2	*5795.00	99.2 PK			1.00 V	356	57.7	41.5
3	*5795.00	88.9 AV			1.00 V	356	47.4	41.5
4	#5999.20	58.6 PK	68.2	-9.6	1.00 V	356	53.8	4.8
5	11590.00	56.1 PK	74.0	-17.9	1.17 V	253	40.6	15.5
6	11590.00	44.7 AV	54.0	-9.3	1.17 V	253	29.2	15.5

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.

802.11ac (VHT80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.8 PK	74.0	-16.2	2.98 H	43	53.9	3.9
2	5150.00	45.8 AV	54.0	-8.2	2.98 H	43	41.9	3.9
3	*5210.00	100.0 PK			3.22 H	30	59.2	40.8
4	*5210.00	89.3 AV			3.22 H	30	48.5	40.8
5	5350.00	55.7 PK	74.0	-18.3	2.99 H	61	51.3	4.4
6	5350.00	43.6 AV	54.0	-10.4	2.99 H	61	39.2	4.4
7	#10420.00	57.1 PK	74.0	-16.9	1.34 H	271	41.8	15.3
8	#10420.00	46.1 AV	54.0	-7.9	1.34 H	271	30.8	15.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.2 PK	74.0	-18.8	1.24 V	233	51.3	3.9
2	5150.00	43.5 AV	54.0	-10.5	1.24 V	233	39.6	3.9
3	*5210.00	93.5 PK			1.38 V	244	52.7	40.8
4	*5210.00	83.1 AV			1.38 V	244	42.3	40.8
5	5350.00	45.2 PK	74.0	-28.8	1.31 V	238	40.8	4.4
6	5350.00	43.3 AV	54.0	-10.7	1.31 V	238	38.9	4.4
7	#10420.00	56.0 PK	74.0	-18.0	3.84 V	94	40.7	15.3
8	#10420.00	44.7 AV	54.0	-9.3	3.84 V	94	29.4	15.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.2 PK	74.0	-18.8	1.10 H	183	51.3	3.9
2	5150.00	43.2 AV	54.0	-10.8	1.10 H	183	39.3	3.9
3	*5290.00	98.0 PK			1.17 H	221	57.0	41.0
4	*5290.00	86.1 AV			1.17 H	221	45.1	41.0
5	5350.00	58.1 PK	74.0	-15.9	1.34 H	205	53.7	4.4
6	5350.00	44.4 AV	54.0	-9.6	1.34 H	205	40.0	4.4
7	#10580.00	57.6 PK	74.0	-16.4	2.91 H	175	41.7	15.9
8	#10580.00	46.2 AV	54.0	-7.8	2.91 H	175	30.3	15.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	1.27 V	348	51.8	3.9
2	5150.00	43.2 AV	54.0	-10.8	1.27 V	348	39.3	3.9
3	*5290.00	96.3 PK			1.14 V	2	55.3	41.0
4	*5290.00	85.5 AV			1.14 V	2	44.5	41.0
5	5350.00	56.2 PK	74.0	-17.8	1.53 V	17	51.8	4.4
6	5350.00	44.1 AV	54.0	-9.9	1.53 V	17	39.7	4.4
7	#10580.00	56.7 PK	74.0	-17.3	1.46 V	98	40.8	15.9
8	#10580.00	45.4 AV	54.0	-8.6	1.46 V	98	29.5	15.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.1 PK	74.0	-14.9	1.38 H	199	54.7	4.4
2	5460.00	46.9 AV	54.0	-7.1	1.38 H	199	42.5	4.4
3	#5470.00	59.3 PK	74.0	-14.7	1.24 H	201	54.8	4.5
4	#5470.00	47.5 AV	54.0	-6.5	1.24 H	201	43.0	4.5
5	*5530.00	99.1 PK			1.29 H	194	57.8	41.3
6	*5530.00	87.9 AV			1.29 H	194	46.6	41.3
7	#5725.00	54.6 PK	74.0	-19.4	1.49 H	223	49.8	4.8
8	#5725.00	43.6 AV	54.0	-10.4	1.49 H	223	38.8	4.8
9	11060.00	58.5 PK	74.0	-15.5	2.85 H	157	41.6	16.9
10	11060.00	47.4 AV	54.0	-6.6	2.85 H	157	30.5	16.9
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	56.5 PK	74.0	-17.5	1.08 V	343	52.1	4.4
2	5460.00	45.0 AV	54.0	-9.0	1.08 V	343	40.6	4.4
3	#5470.00	57.1 PK	74.0	-16.9	1.02 V	332	52.6	4.5
4	#5470.00	45.2 AV	54.0	-8.8	1.02 V	332	40.7	4.5
5	*5530.00	93.8 PK			1.00 V	336	52.5	41.3
6	*5530.00	83.6 AV			1.00 V	336	42.3	41.3
7	#5725.00	56.8 PK	74.0	-17.2	1.28 V	296	52.0	4.8
8	#5725.00	44.2 AV	54.0	-9.8	1.28 V	296	39.4	4.8
9	11060.00	57.7 PK	74.0	-16.3	1.16 V	283	40.8	16.9
10	11060.00	46.6 AV	54.0	-7.4	1.16 V	283	29.7	16.9

Remarks:

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

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5612.80	57.6 PK	68.2	-10.6	1.12 H	195	52.8	4.8
2	*5775.00	98.3 PK			1.12 H	195	56.8	41.5
3	*5775.00	87.5 AV			1.12 H	195	46.0	41.5
4	#5930.40	58.8 PK	68.2	-9.4	1.12 H	195	54.0	4.8
5	11550.00	57.6 PK	74.0	-16.4	2.94 H	125	41.8	15.8
6	11550.00	46.4 AV	54.0	-7.6	2.94 H	125	30.6	15.8
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	#5606.40	58.2 PK	68.2	-10.0	1.00 V	346	53.4	4.8
2	*5775.00	92.9 PK			1.00 V	346	51.4	41.5
3	*5775.00	82.1 AV			1.00 V	346	40.6	41.5
4	#5988.00	58.8 PK	68.2	-9.4	1.00 V	346	54.0	4.8
5	11550.00	56.6 PK	74.0	-17.4	3.61 V	153	40.8	15.8
6	11550.00	45.4 AV	54.0	-8.6	3.61 V	153	29.6	15.8

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.

Below 1GHz Worst-Case Data

Test Mode A

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	60.07	28.5 QP	40.0	-11.5	1.50 H	238	42.6	-14.1
2	166.77	27.1 QP	43.5	-16.4	1.50 H	101	40.8	-13.7
3	254.07	38.3 QP	46.0	-7.7	1.50 H	131	52.3	-14.0
4	483.96	24.8 QP	46.0	-21.2	1.50 H	167	34.4	-9.6
5	776.90	26.6 QP	46.0	-19.4	1.50 H	196	31.2	-4.6
6	939.86	30.5 QP	46.0	-15.5	1.50 H	282	32.7	-2.2
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	60.07	34.8 QP	40.0	-5.2	1.00 V	88	48.9	-14.1
2	89.17	33.0 QP	43.5	-10.5	1.50 V	132	52.1	-19.1
3	254.07	32.1 QP	46.0	-13.9	1.00 V	162	46.1	-14.0
4	447.10	24.4 QP	46.0	-21.6	1.00 V	256	34.4	-10.0
5	745.86	27.7 QP	46.0	-18.3	1.50 V	16	32.8	-5.1
6	935.01	29.8 QP	46.0	-16.2	2.00 V	270	32.1	-2.3

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

Test Mode B

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	62.01	28.8 QP	40.0	-11.2	1.00 H	73	43.3	-14.5
2	93.05	29.1 QP	43.5	-14.4	1.50 H	180	48.0	-18.9
3	251.16	39.0 QP	46.0	-7.0	1.50 H	120	53.2	-14.2
4	507.24	26.6 QP	46.0	-19.4	1.50 H	155	35.8	-9.2
5	745.86	36.5 QP	46.0	-9.5	1.25 H	318	41.6	-5.1
6	935.01	31.0 QP	46.0	-15.0	1.25 H	353	33.3	-2.3
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	61.04	34.5 QP	40.0	-5.5	1.50 V	95	48.9	-14.4
2	151.25	26.9 QP	43.5	-16.6	1.50 V	197	40.3	-13.4
3	251.16	33.1 QP	46.0	-12.9	2.00 V	156	47.3	-14.2
4	492.69	23.3 QP	46.0	-22.7	1.25 V	344	32.8	-9.5
5	746.83	29.6 QP	46.0	-16.4	1.00 V	95	34.7	-5.1
6	939.86	31.7 QP	46.0	-14.3	1.50 V	245	33.9	-2.2

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

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
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2017	Sep. 04, 2018
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 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 HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

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

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

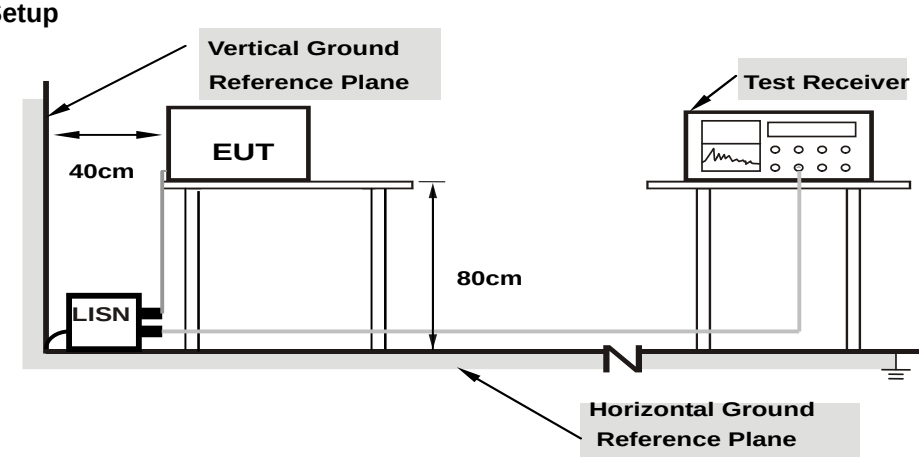
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

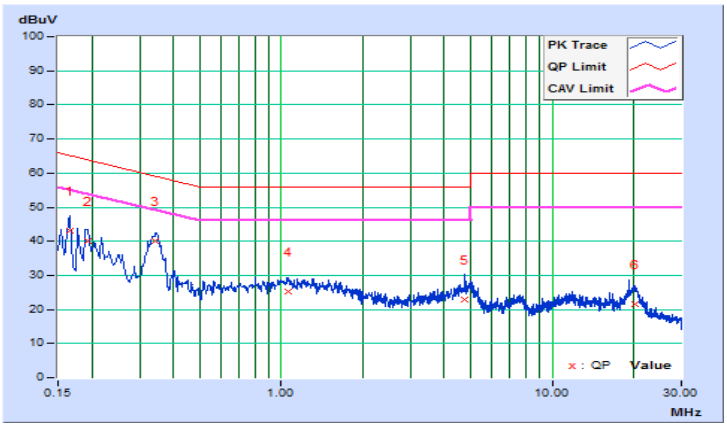
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16569	10.45	32.54	18.05	42.99	28.50	65.17	55.17	-22.18	-26.67
2	0.19301	10.45	29.73	16.68	40.18	27.13	63.91	53.91	-23.73	-26.78
3	0.34469	10.50	29.69	21.12	40.19	31.62	59.09	49.09	-18.90	-17.47
4	1.06463	10.48	14.91	7.62	25.39	18.10	56.00	46.00	-30.61	-27.90
5	4.78335	10.68	12.23	3.50	22.91	14.18	56.00	46.00	-33.09	-31.82
6	20.19657	11.43	10.17	1.45	21.60	12.88	60.00	50.00	-38.40	-37.12

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.

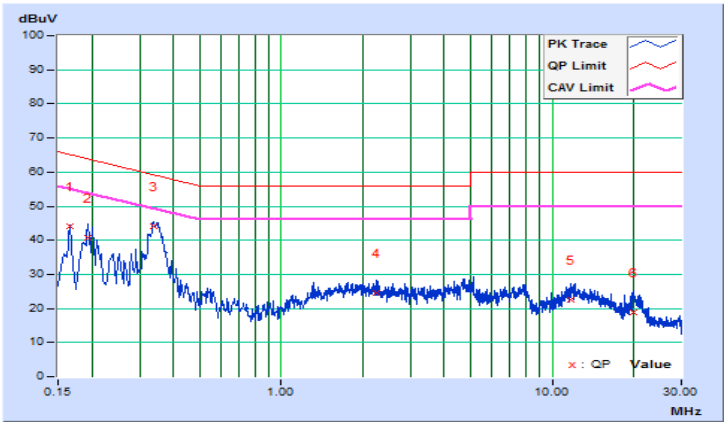


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16564	10.21	33.87	18.58	44.08	28.79	65.18	55.18	-21.10	-26.39
2	0.19305	10.22	30.49	16.83	40.71	27.05	63.90	53.90	-23.19	-26.85
3	**0.33750**	**10.23**	**33.84**	**25.06**	**44.07**	**35.29**	**59.26**	**49.26**	**-15.19**	**-13.97**
4	2.24185	10.33	14.17	8.33	24.50	18.66	56.00	46.00	-31.50	-27.34
5	11.66886	10.73	11.74	4.54	22.47	15.27	60.00	50.00	-37.53	-34.73
6	20.02844	11.05	7.97	-2.24	19.02	8.81	60.00	50.00	-40.98	-41.19

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.

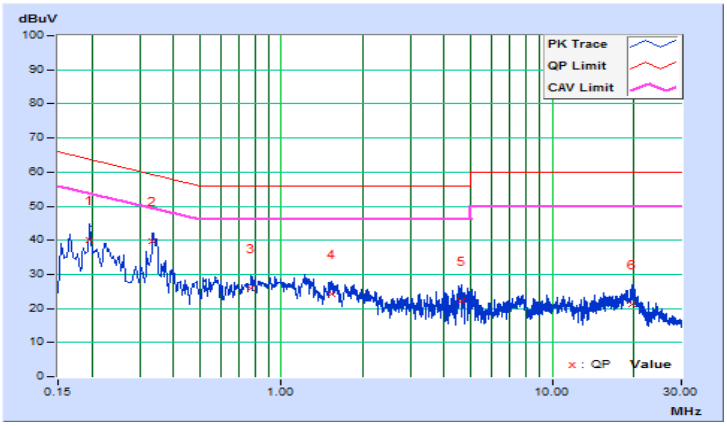


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19665	10.45	29.48	16.19	39.93	26.64	63.75	53.75	-23.82	-27.11
2	0.33396	10.50	29.36	18.85	39.86	29.35	59.35	49.35	-19.49	-20.00
3	0.77560	10.49	15.60	8.27	26.09	18.76	56.00	46.00	-29.91	-27.24
4	1.54196	10.51	13.84	7.16	24.35	17.67	56.00	46.00	-31.65	-28.33
5	4.66214	10.68	11.52	0.37	22.20	11.05	56.00	46.00	-33.80	-34.95
6	19.81730	11.41	9.92	0.73	21.33	12.14	60.00	50.00	-38.67	-37.86

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.

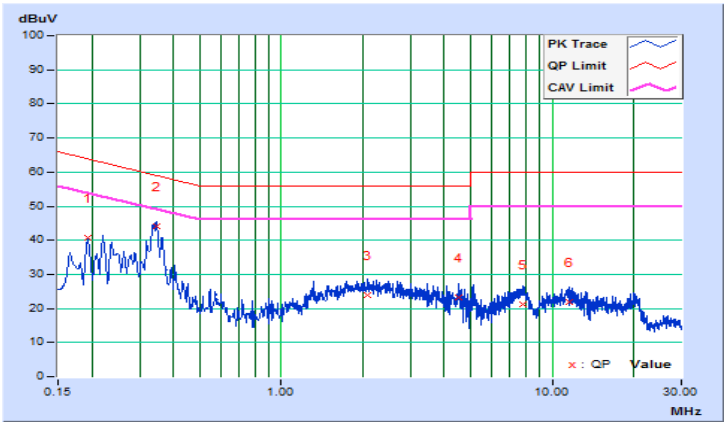


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19305	10.22	30.48	16.73	40.70	26.95	63.90	53.90	-23.20	-26.95
2	0.34560	10.23	33.73	22.49	43.96	32.72	59.07	49.07	-15.11	-16.35
3	2.08154	10.32	13.64	4.22	23.96	14.54	56.00	46.00	-32.04	-31.46
4	4.53702	10.43	12.73	3.94	23.16	14.37	56.00	46.00	-32.84	-31.63
5	7.84097	10.57	10.71	1.82	21.28	12.39	60.00	50.00	-38.72	-37.61
6	11.49682	10.73	11.16	3.97	21.89	14.70	60.00	50.00	-38.11	-35.30

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 ≦ 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

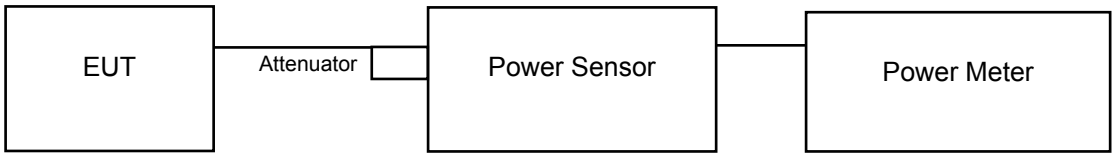
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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 $N_{ANT} \geq 5$.

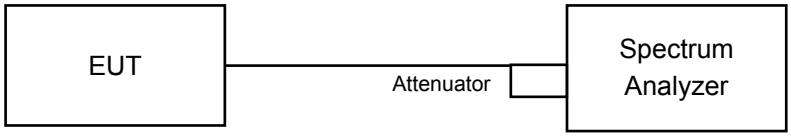
For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup

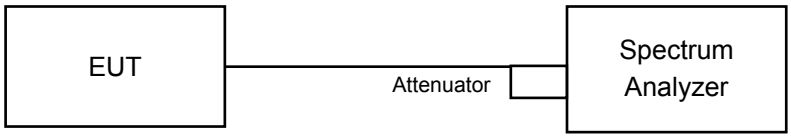
For Power Output
802.11a, 802.11n (HT20), 802.11n (HT40)



802.11ac (VHT80)



For 26dB and Occupied Bandwidth



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 (HT20), 802.11n (HT40)
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 (VHT80)
a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
b. Set sweep trigger to “free run”.
c. Set RBW = 1 MHz
d. Set VBW ≥ 3 MHz
e. Number of points in sweep ≥ 2 Span / RBW
f. Sweep time ≤ (number of points in sweep) * T
g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
h. Detector = RMS
i. Trace mode = max hold
j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
k. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

For 26dB Bandwidth
a. Set RBW = approximately 1% of the emission bandwidth.
b. Set the VBW > RBW.
c. Detector = Peak.
d. Trace mode = max hold.
e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

For Occupied Bandwidth
The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	96.828	19.86	24.00	Pass
40	5200	90.365	19.56	24.00	Pass
48	5240	88.716	19.48	24.00	Pass
52	5260	101.625	20.07	24.00	Pass
60	5300	102.094	20.09	24.00	Pass
64	5320	**108.143**	20.34	24.00	Pass
100	5500	102.329	20.10	24.00	Pass
116	5580	107.895	20.33	24.00	Pass
140	5700	114.288	20.58	24.00	Pass
149	5745	**111.173**	20.46	30.00	Pass
157	5785	107.895	20.33	30.00	Pass
165	5825	104.472	20.19	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log(33.78) = 26.29 dBm > 24dBm
2. 11dBm + 10log(30.43) = 25.83 dBm > 24dBm
3. 11dBm + 10log(31.81) = 26.03 dBm > 24dBm
4. 11dBm + 10log(32.68) = 26.14 dBm > 24dBm
5. 11dBm + 10log(33.85) = 26.30 dBm > 24dBm
6. 11dBm + 10log(34.12) = 26.33 dBm > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	89.125	19.50	24.00	Pass
40	5200	90.365	19.56	24.00	Pass
48	5240	**101.859**	20.08	24.00	Pass
52	5260	100.925	20.04	24.00	Pass
60	5300	104.472	20.19	24.00	Pass
64	5320	101.391	20.06	24.00	Pass
100	5500	103.039	20.13	24.00	Pass
116	5580	107.895	20.33	24.00	Pass
140	5700	**117.761**	20.71	24.00	Pass
149	5745	110.408	20.43	30.00	Pass
157	5785	105.682	20.24	30.00	Pass
165	5825	100.231	20.01	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log(36.17) = 26.58 dBm > 24dBm
2. 11dBm + 10log(33.30) = 26.22 dBm > 24dBm
3. 11dBm + 10log(31.98) = 26.05 dBm > 24dBm
4. 11dBm + 10log(30.55) = 25.85 dBm > 24dBm
5. 11dBm + 10log(33.41) = 26.24 dBm > 24dBm
6. 11dBm + 10log(32.69) = 26.14 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	61.094	17.86	24.00	Pass
46	5230	66.222	18.21	24.00	Pass
54	5270	66.988	18.26	24.00	Pass
62	5310	54.702	17.38	24.00	Pass
102	5510	60.674	17.83	24.00	Pass
110	5550	80.910	19.08	24.00	Pass
134	5670	77.804	18.91	24.00	Pass
151	5755	77.625	18.90	30.00	Pass
159	5795	67.453	18.29	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log(58.19) = 28.65 dBm > 24dBm
2. 11dBm + 10log(46.46) = 27.67 dBm > 24dBm
3. 11dBm + 10log(51.26) = 28.10 dBm > 24dBm
4. 11dBm + 10log(50.32) = 28.02 dBm > 24dBm
5. 11dBm + 10log(56.49) = 28.52 dBm > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	32.211	15.08	24.00	Pass
58	5290	28.774	14.59	24.00	Pass
106	5530	30.130	14.79	24.00	Pass
155	5775	34.594	15.39	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log(85.01) = 30.29 dBm > 24dBm
2. 11dBm + 10log(84.12) = 30.25 dBm > 24dBm

26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
36	5180	31.54
40	5200	28.02
48	5240	34.03
52	5260	33.78
60	5300	30.43
64	5320	31.81
100	5500	32.68
116	5580	33.85
140	5700	34.12

802.11n (HT20)

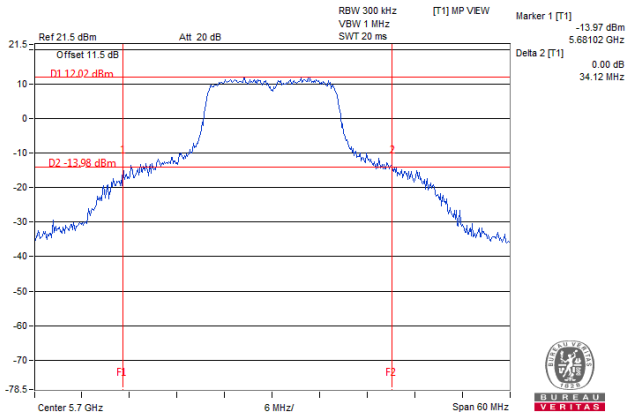
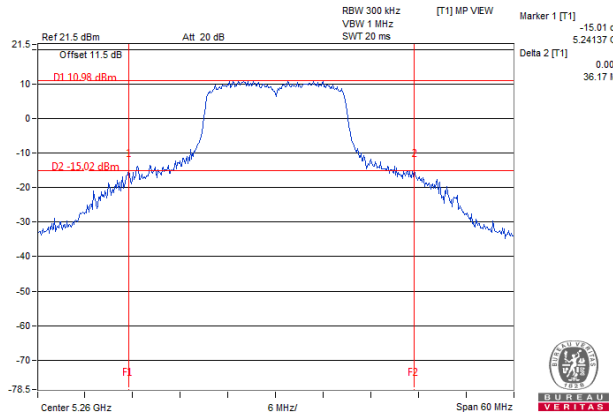
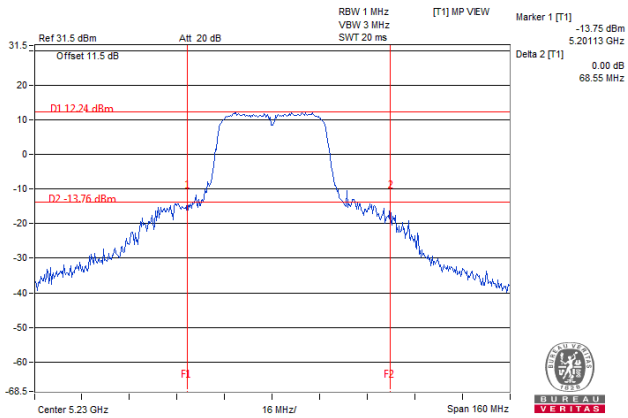
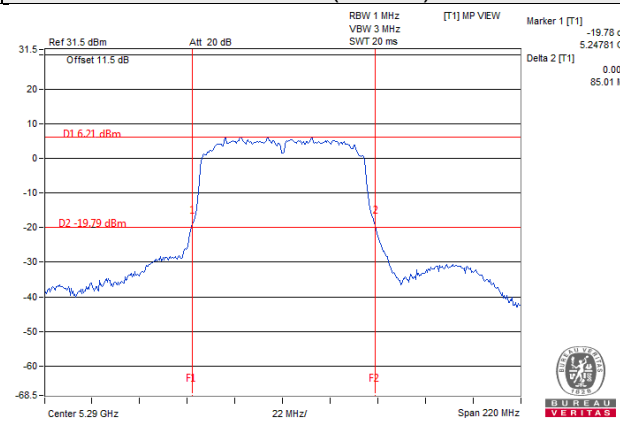
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
36	5180	34.13
40	5200	30.82
48	5240	31.85
52	5260	36.17
60	5300	33.30
64	5320	31.98
100	5500	30.55
116	5580	33.41
140	5700	32.69

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
38	5190	48.97
46	5230	68.55
54	5270	58.19
62	5310	46.46
102	5510	51.26
110	5550	50.32
134	5670	56.49

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
42	5210	84.69
58	5290	85.01
106	5530	84.12

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	108.143	20.34
5470~5725	114.288	20.58

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	104.472	20.19
5470~5725	117.761	20.71

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	66.988	18.26
5470~5725	80.910	19.08

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

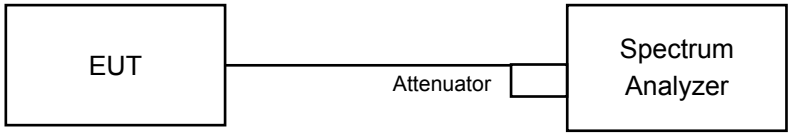
802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	28.774	14.59
5470~5725	30.130	14.79

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

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Test Result

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.92
40	5200	17.04
48	5240	17.04
52	5260	17.16
60	5300	17.16
64	5320	17.16
100	5500	17.04
116	5580	17.16
140	5700	17.16
149	5745	17.16
157	5785	17.04
165	5825	16.92

802.11n (HT20)

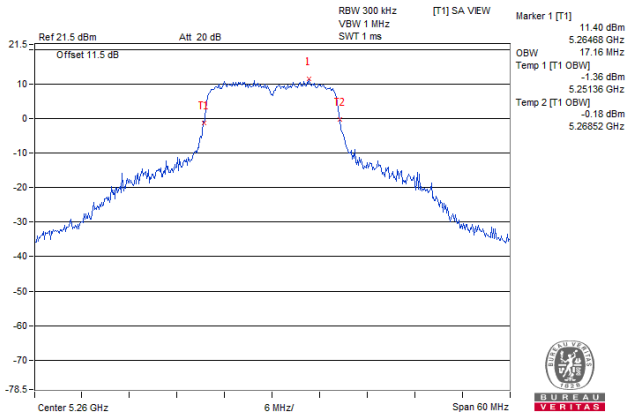
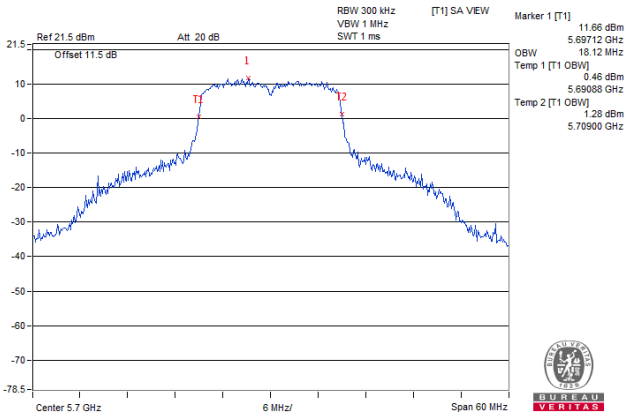
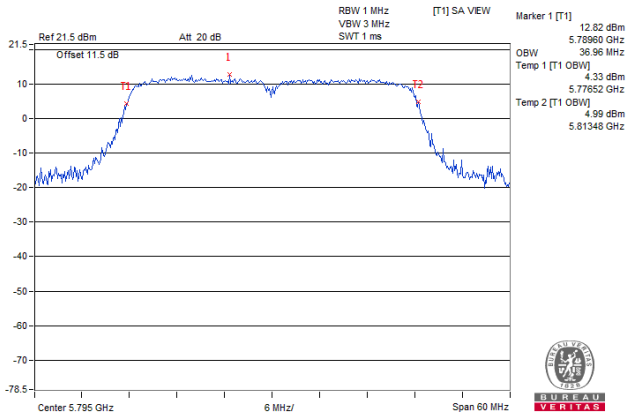
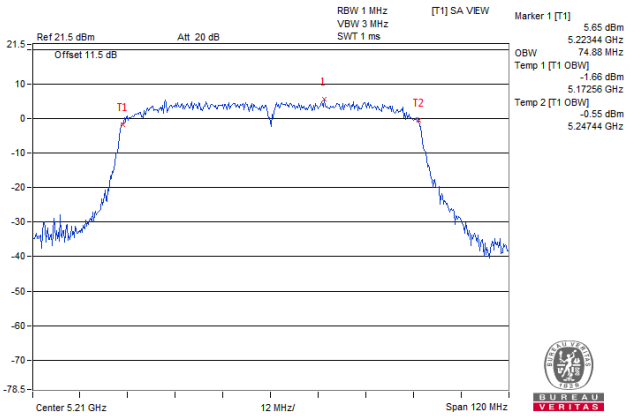
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.00
40	5200	18.00
48	5240	18.00
52	5260	18.00
60	5300	17.04
64	5320	18.00
100	5500	18.00
116	5580	17.88
140	5700	18.12
149	5745	17.88
157	5785	18.00
165	5825	17.88

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.60
46	5230	36.84
54	5270	36.72
62	5310	36.72
102	5510	36.60
110	5550	36.84
134	5670	36.84
151	5755	36.84
159	5795	36.96

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	74.88
58	5290	74.88
106	5530	74.64
155	5775	74.64

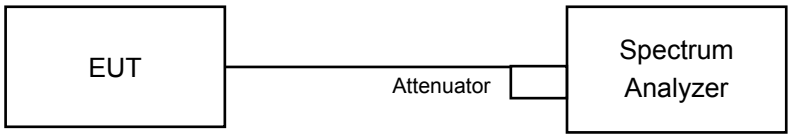
Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

4.5 Peak Power Spectral Density Measurement

4.5.1 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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-1, U-NII-2A, U-NII-2C band:
Duty cycle of test signal is ≥ 98%
Using method SA-1
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value

Duty cycle of test signal is < 98 %
Using method SA-2
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:
Duty cycle of test signal is ≥ 98%
Using method SA-1
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS.
3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured 1) power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz / 300 kHz).
5) Sweep time = auto, trigger set to “free run”.
6) Trace average at least 100 traces in power averaging mode.
7) Record the max value.

Duty cycle of test signal is < 98 %
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500kHz/300kHz)
5) Sweep time = auto, trigger set to “free run”.
6) Trace average at least 100 traces in power averaging mode.
7) Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

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

802.11a

Chan.	Freq. (MHz)	PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	6.73	11	Pass
40	5200	6.68	11	Pass
48	5240	6.82	11	Pass
52	5260	6.75	11	Pass
60	5300	6.74	11	Pass
64	5320	6.88	11	Pass
100	5500	7.07	11	Pass
116	5580	7.25	11	Pass
140	5700	7.38	11	Pass

802.11n (HT20)

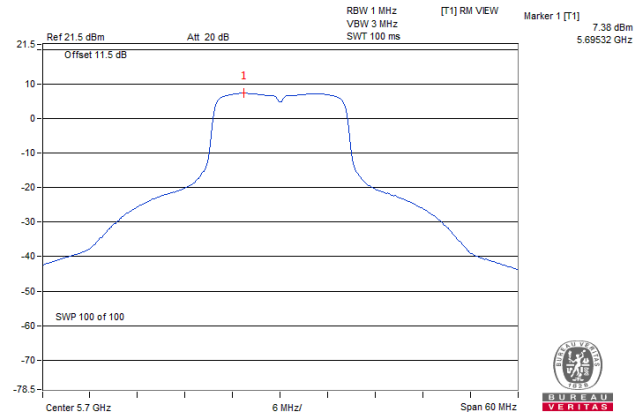
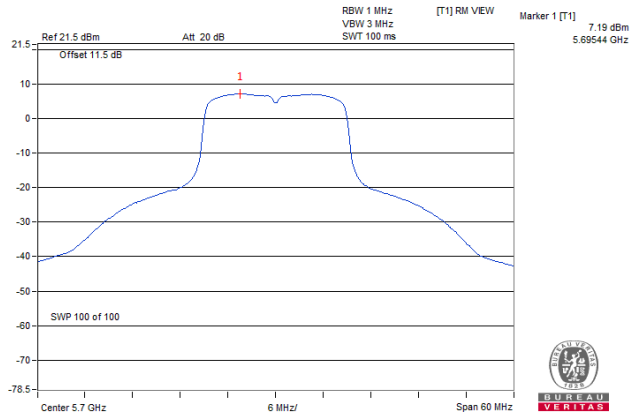
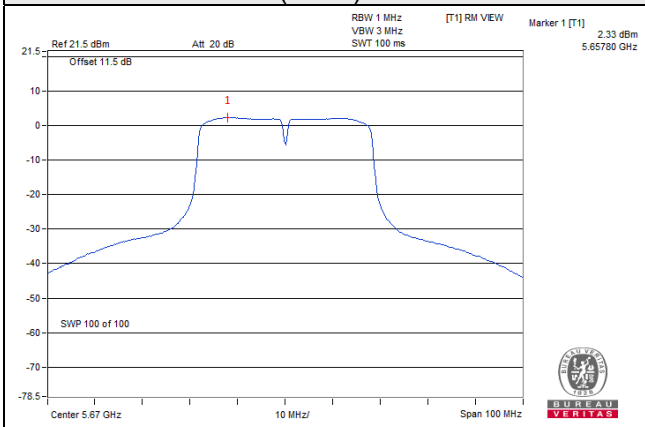
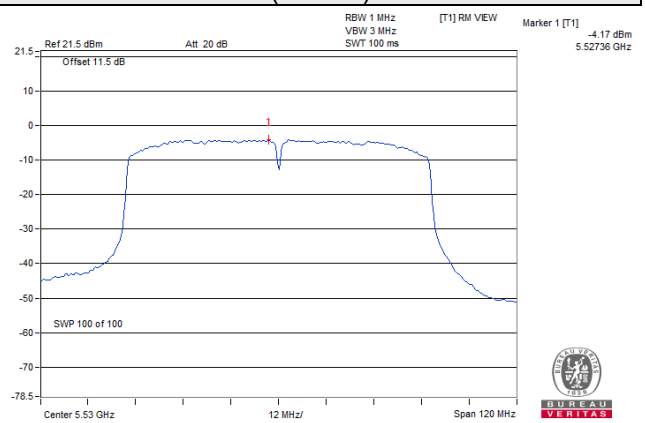
Chan.	Freq. (MHz)	PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	6.39	11	Pass
40	5200	6.45	11	Pass
48	5240	6.42	11	Pass
52	5260	6.48	11	Pass
60	5300	6.85	11	Pass
64	5320	6.59	11	Pass
100	5500	6.82	11	Pass
116	5580	6.99	11	Pass
140	5700	7.19	11	Pass

802.11n (HT40)

Chan.	Freq. (MHz)	PSD without Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
38	5190	1.17	0.10	1.27	11	Pass
46	5230	1.61	0.10	1.71	11	Pass
54	5270	1.62	0.10	1.72	11	Pass
62	5310	0.37	0.10	0.47	11	Pass
102	5510	1.02	0.10	1.12	11	Pass
110	5550	2.04	0.10	2.14	11	Pass
134	5670	2.33	0.10	2.43	11	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD without Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
42	5210	-5.01	0.17	-4.84	11	Pass
58	5290	-4.26	0.17	-4.09	11	Pass
106	5530	-4.17	0.17	-4.00	11	Pass

Spectrum Plot of Worst Value	
802.11a / CH 140	802.11n (HT20) / CH 140
	
802.11n (HT40) / CH 134	802.11ac (VHT80) / CH 106
	

For U-NII-3 band:

802.11a

Chan.	Freq. (MHz)	PSD		Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)		
149	5745	-1.15	1.07	30.00	Pass
157	5785	-1.36	0.86	30.00	Pass
165	5825	-1.39	0.83	30.00	Pass

802.11n (HT20)

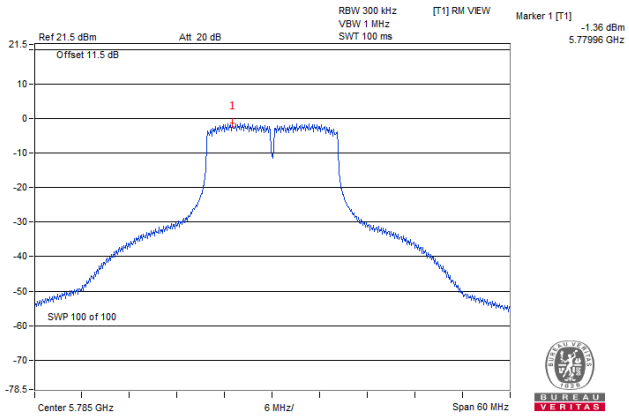
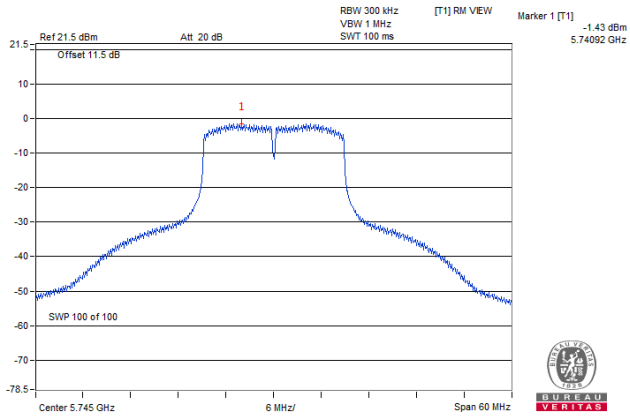
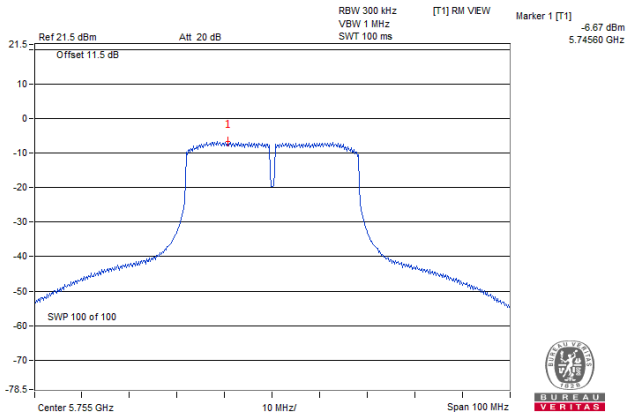
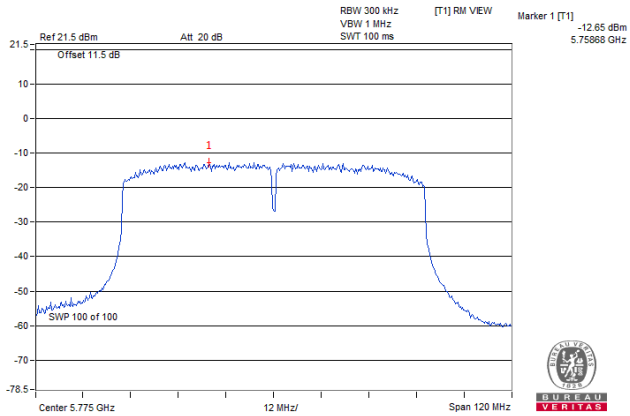
Chan.	Freq. (MHz)	PSD		Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)		
149	5745	-1.43	0.79	30.00	Pass
157	5785	-1.60	0.62	30.00	Pass
165	5825	-1.70	0.52	30.00	Pass

802.11n (HT40)

Chan.	Freq. (MHz)	PSD		Duty factor	Total PSD (dBm /500kHz)	Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
151	5755	-6.67	-4.45	0.10	-4.35	30.00	Pass
159	5795	-6.87	-4.65	0.10	-4.55	30.00	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD		Duty factor	Total PSD (dBm /500kHz)	Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
151	5755	-12.65	-10.43	0.17	-10.26	30.00	Pass

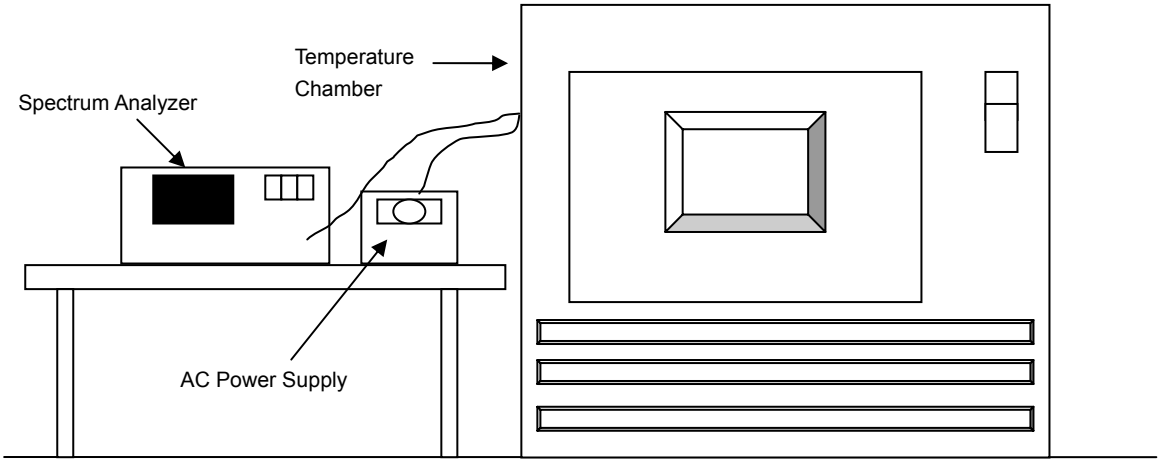
Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

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

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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
40	120	5180.0232	0.00045	5180.0254	0.00049	5180.0232	0.00045	5180.0213	0.00041
30	120	5179.9913	-0.00017	5179.9923	-0.00015	5179.9923	-0.00015	5179.9947	-0.00010
20	120	5179.9945	-0.00011	5179.9943	-0.00011	5179.9925	-0.00014	5179.9921	-0.00015
10	120	5179.9872	-0.00025	5179.9873	-0.00025	5179.9882	-0.00023	5179.9857	-0.00028
0	120	5180.0015	0.00003	5180.0005	0.00001	5179.9996	-0.00001	5179.9982	-0.00003

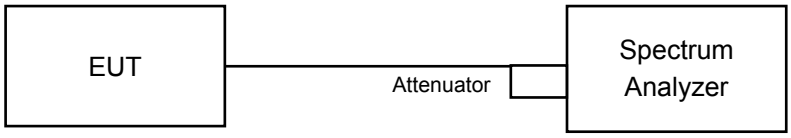
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5179.9939	-0.00012	5179.9944	-0.00011	5179.9919	-0.00016	5179.9915	-0.00016
	120	5179.9945	-0.00011	5179.9943	-0.00011	5179.9925	-0.00014	5179.9921	-0.00015
	102	5179.9941	-0.00011	5179.9953	-0.00009	5179.9916	-0.00016	5179.9922	-0.00015

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

Measurement Procedure REF

a. Set resolution bandwidth (RBW) = 100kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. 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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	16.32	0.5	Pass
157	5785	16.37	0.5	Pass
165	5825	16.12	0.5	Pass

802.11n (HT20)

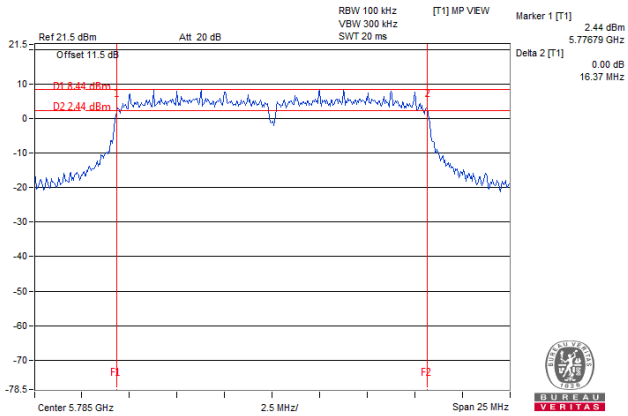
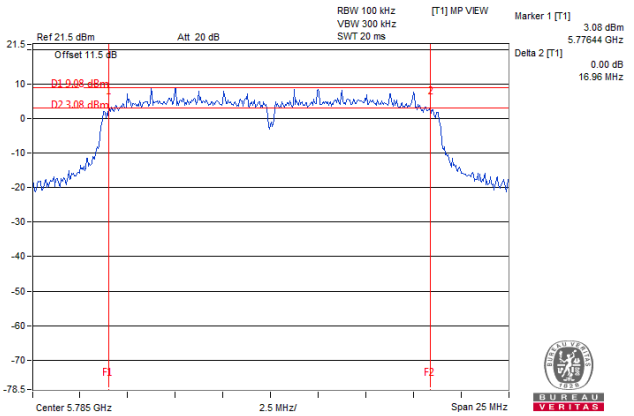
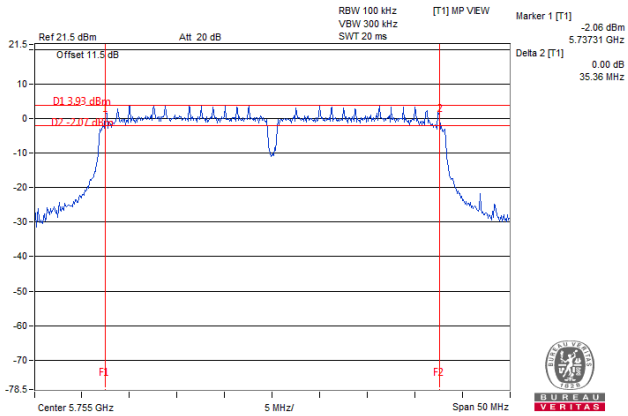
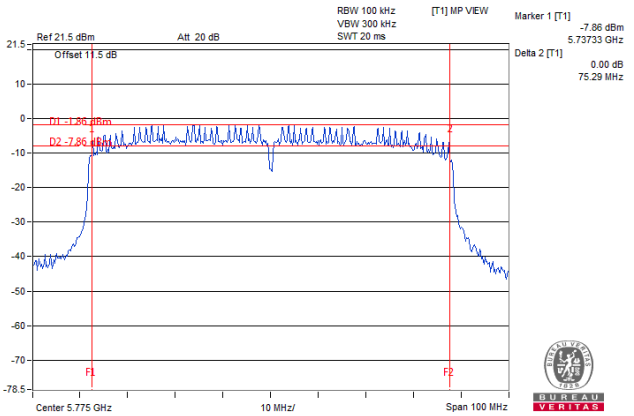
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	16.56	0.5	Pass
157	5785	16.96	0.5	Pass
165	5825	16.67	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
151	5755	35.36	0.5	Pass
159	5795	35.35	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
155	5775	75.29	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

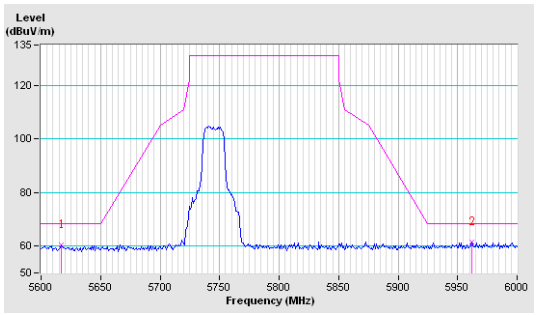
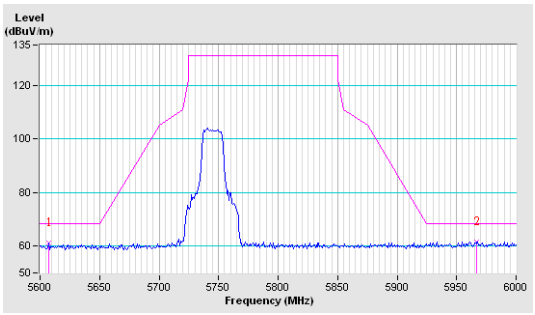
5 Pictures of Test Arrangements

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

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

Test Mode A

802.11a

CH149	
Horizontal	Vertical
	
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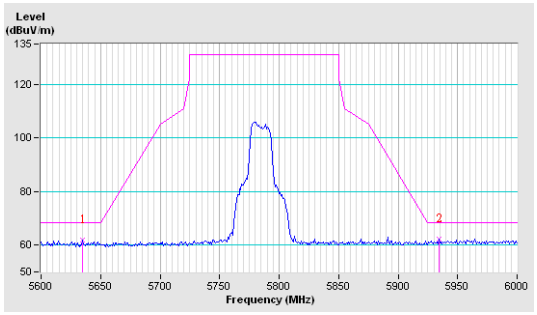
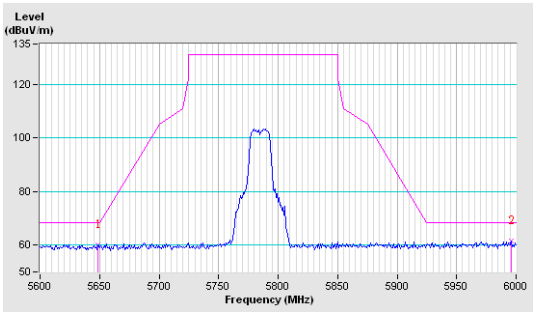
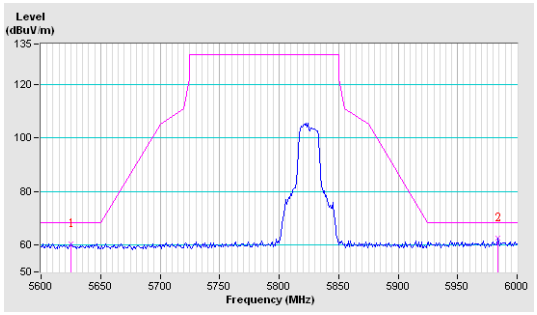
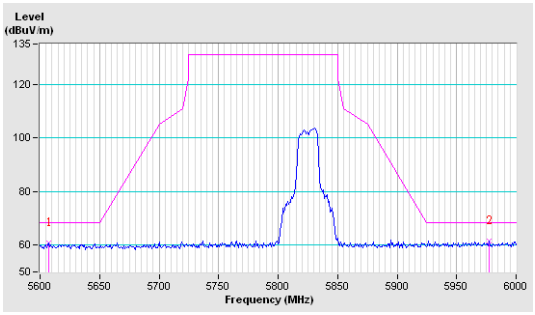
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

802.11n (HT20)

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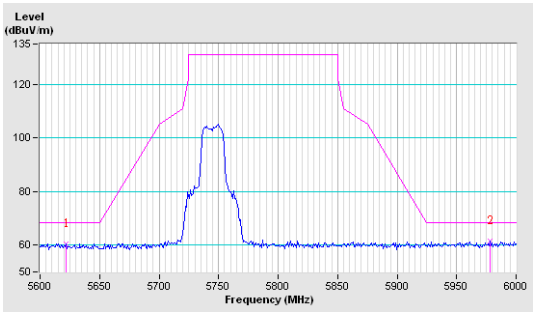	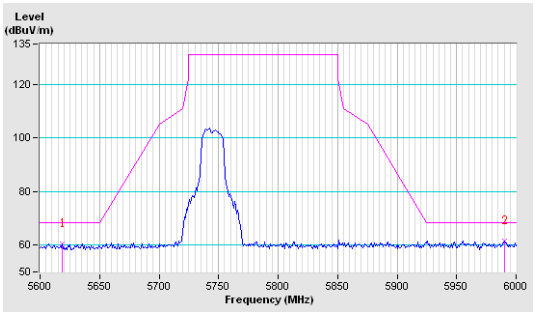
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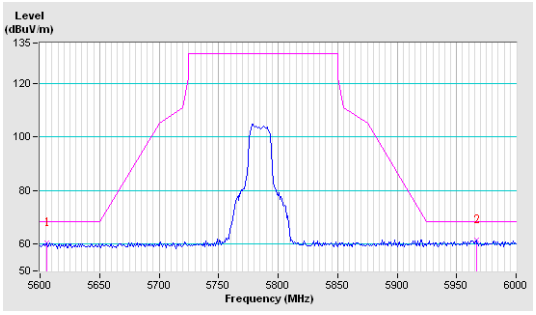
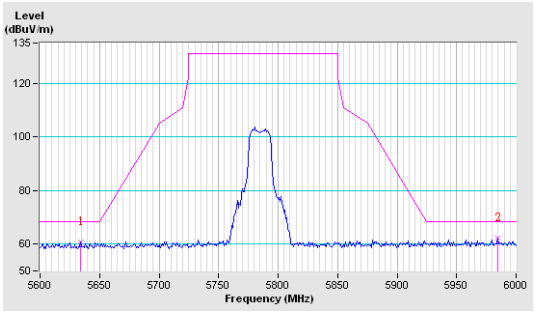
Horizontal	Vertical
	
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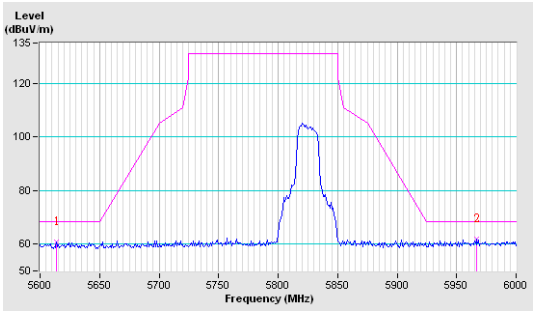	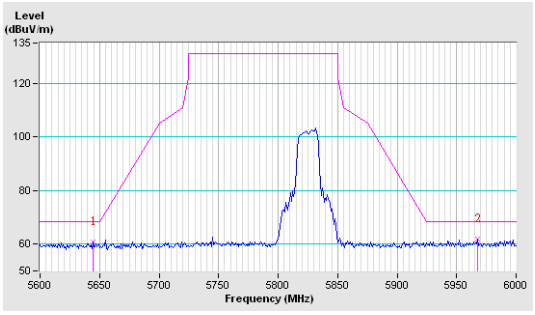

802.11n (HT40)

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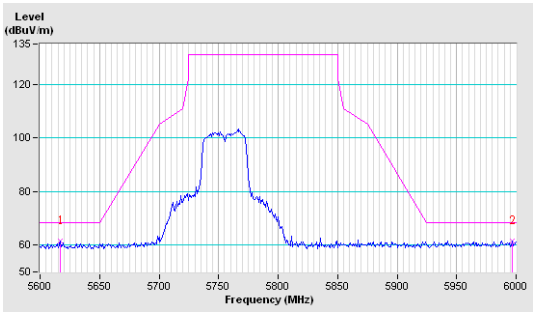	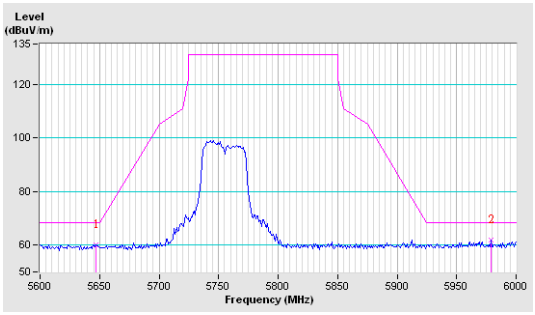
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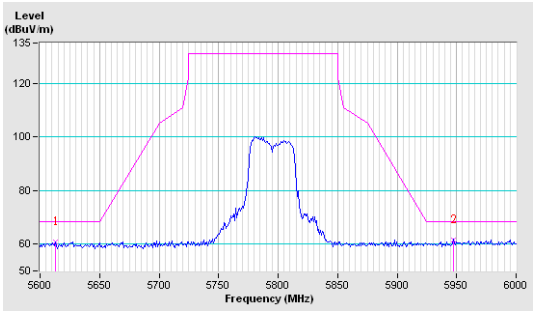
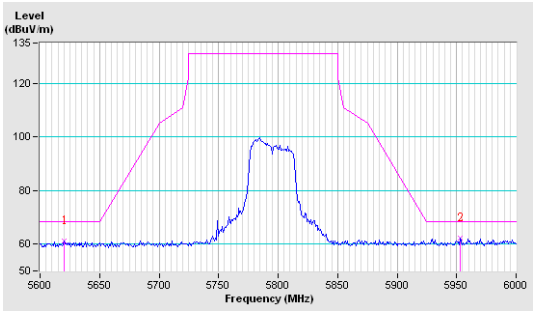
Horizontal	Vertical
	

802.11ac (VHT80)

CH155	
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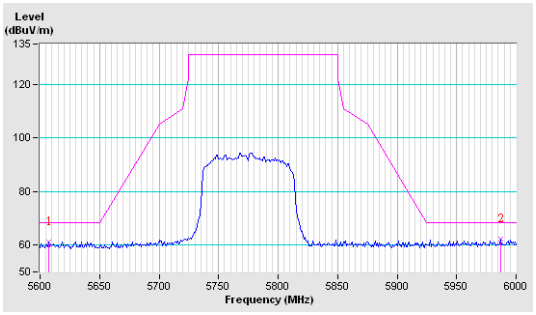
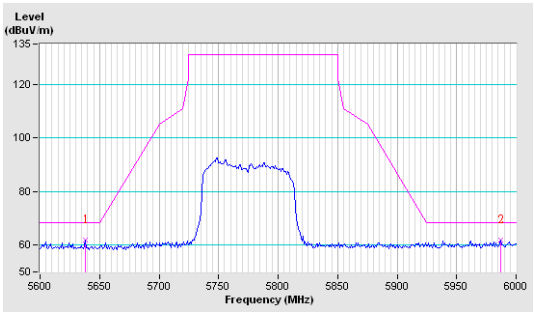
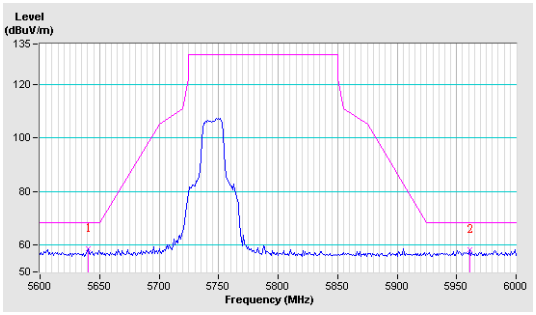
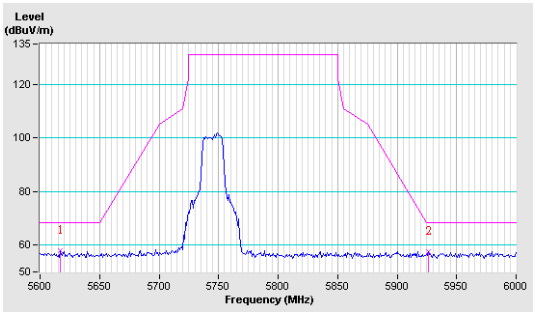
	

Test Mode B

802.11a

CH149	
Horizontal	Vertical
	
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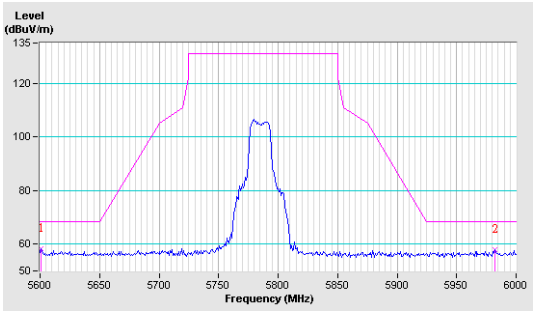
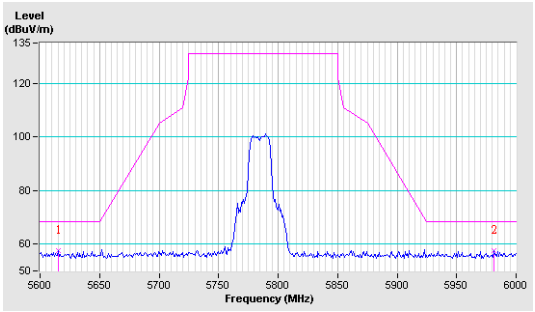
Horizontal	Vertical
	
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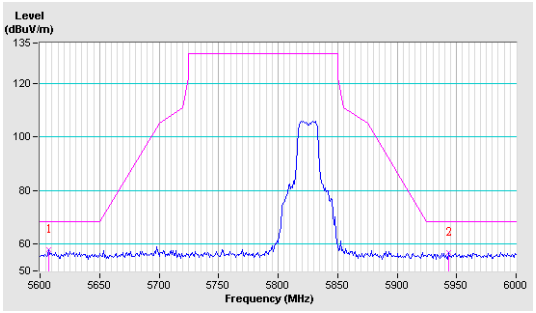
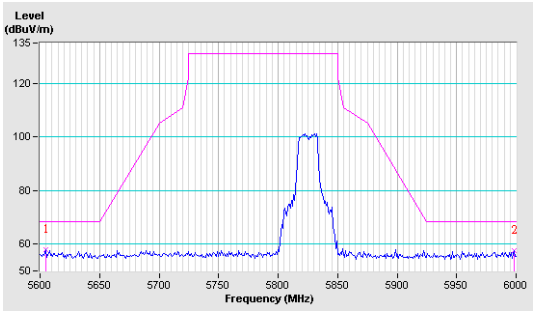
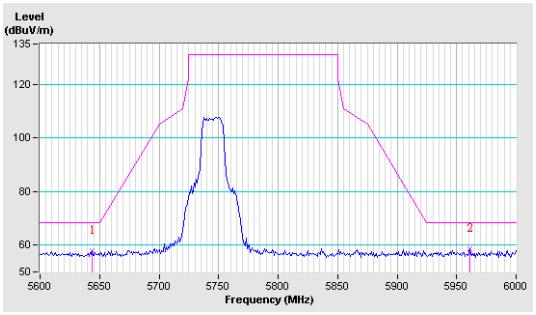
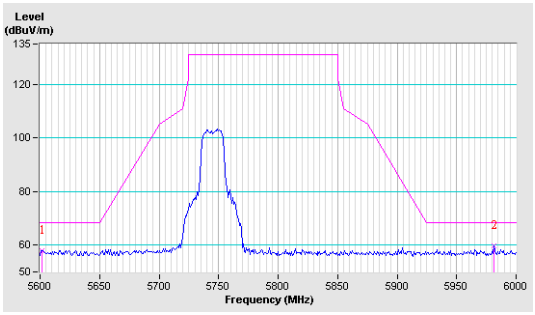
	

802.11n (HT20)

CH149	
Horizontal	Vertical
	
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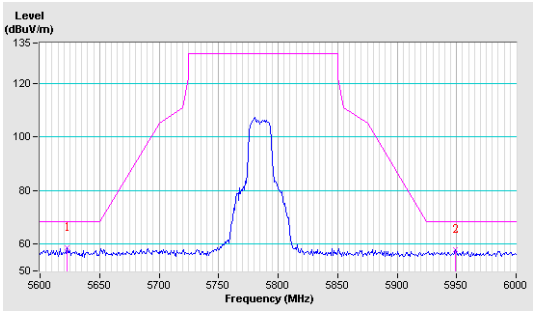	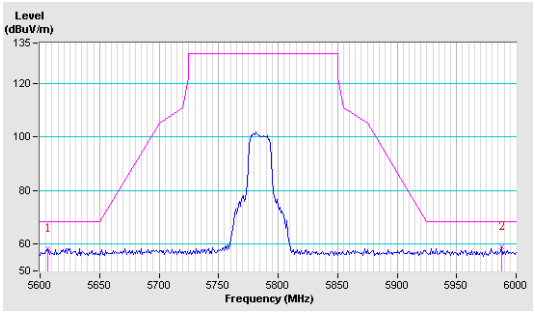
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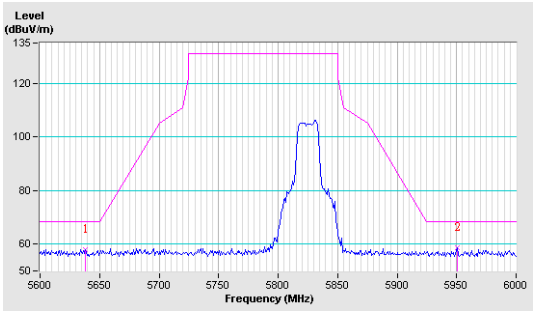	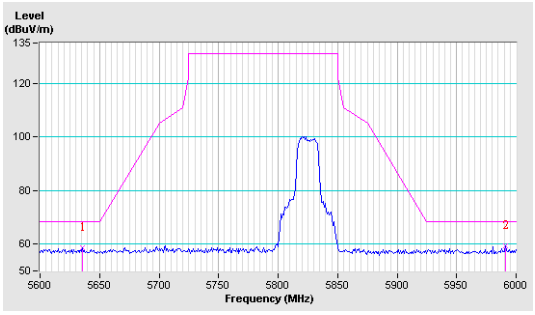

802.11n (HT40)

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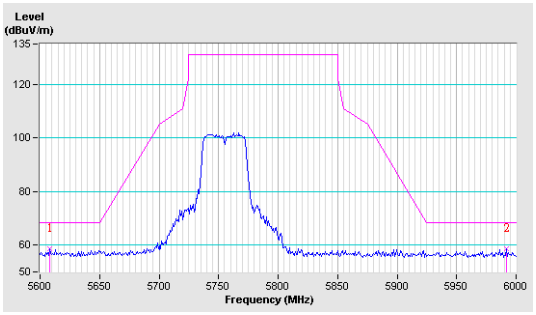	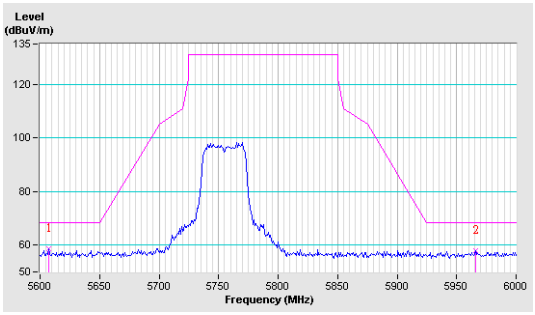
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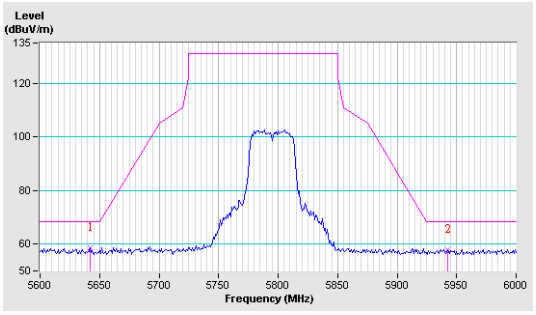
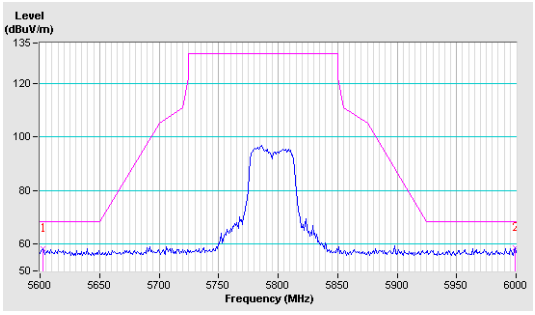
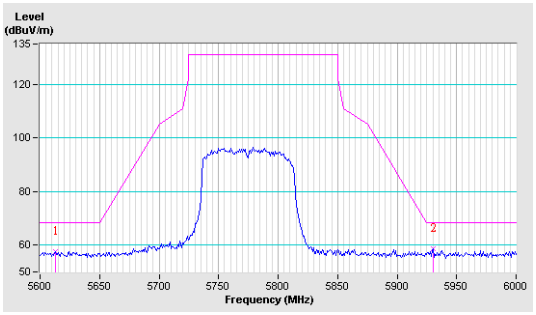
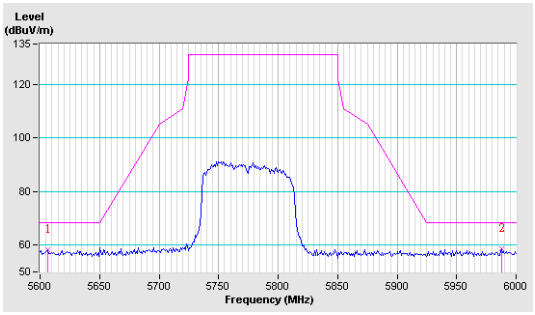
	

802.11ac (VHT80)

CH155	
Horizontal	Vertical
	

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:

Linko EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety
Tel: 886-3-3183232
Fax: 886-3-3270892

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.

--- END ---