

FCC Test Report

Report No.: RF171002C22

FCC ID: KA2WL3610APA1

Test Model: DWL-3610AP

Received Date: Oct. 02, 2017

Test Date: Nov. 10 ~ Dec. 27, 2017

Issued Date: Dec. 29, 2017

Applicant: D-Link Corporation

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

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF171002C22	Original release.	Dec. 29, 2017

1 Certificate of Conformity

Product: Unified AC Selectable Dual-band PoE Access Point

Brand: D-Link

Test Model: DWL-3610AP

Sample Status: Identical Prototype

Applicant: D-Link Corporation

Test Date: Nov. 10 ~ Dec. 27, 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 RF characteristics under the conditions specified in this report.

Prepared by :  , **Date:** Dec. 29, 2017
Pettle Chen / Senior Specialist

Approved by :  , **Date:** Dec. 29, 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 -8.20dB at 0.27120MHz.
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 -1.0dB at 5350.00, 5470.00, 5725.00MHz.
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	Antenna connector is UFL not a standard connector.

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	3.86 dB
	200MHz ~ 1000MHz	3.87 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	Unified AC Selectable Dual-band PoE Access Point
Brand	D-Link
Test Model	DWL-3610AP
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 300Mbps 802.11ac: up to 867Mbps
Operating Frequency	5260~5320MHz, 5500~5720MHz
Number of Channel	5260~5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500~5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11 802.11n (HT40), 802.11ac (VHT40): 5 802.11ac (VHT80): 2
Output Power	CDD Mode: 5260~5320MHz: 237.790mW 5500~5700MHz: 237.144mW Beamforming Mode: 5260~5320MHz: 232.176mW 5500~5700MHz: 237.144mW
Antenna Type	PIFA antenna with 3dBi gain
Antenna Connector	UFL
Accessory Device	Adapter
Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report of Cerpass Technology Corp. report no.: TEFE1607046. Difference compared with the original report is adding 5260~5320MHz and 5500~5700MHz band. Therefore, the EUT was re-tested and presented in the test report.

2. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitter and 2 receivers.

Band	Modulation Mode	CDD Mode	Beamforming Mode	TX Function
5GHz	802.11a	Support	Not Support	2TX
	802.11n (HT20)	Support	Support	2TX
	802.11n (HT40)	Support	Support	2TX
	802.11ac (VHT20)	Support	Support	2TX
	802.11ac (VHT40)	Support	Support	2TX
	802.11ac (VHT80)	Support	Support	2TX

* 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)

3. The EUT consumes power from the following adapter.

Adapter	
Brand	D-Link
Model	AMS135-1201000FU
Input Power	100-240Vac~50/60Hz 5A/27VA
Output Power	12Vdc / 1.0A
Power Cord	1.2m non-shielded power cord without core

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

3.2 Description of Test Modes

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

5500~5720MHz:

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where RE $\geq$ 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 X-plane.

Radiated Emission Test (Above 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	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	58.5
-	802.11a	5500-5720	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	106, 122	OFDM	58.5

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)
-	802.11a	5260-5320	52 to 64	60	OFDM	6.0
		5500-5720	100 to 140		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)
-	802.11a	5260-5320	52 to 64	60	OFDM	6.0
		5500-5720	100 to 140		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)
-	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	58.5
-	802.11a	5500-5720	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	106, 122	OFDM	58.5

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25deg. C, 67%RH	120Vac, 60Hz	Luis Lee
RE $<$ 1G	25deg. C, 70%RH	120Vac, 60Hz	Luis Lee
PLC	25deg. C, 75%RH	120Vac, 60Hz	Jones Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Frank Liu

3.3 Duty Cycle of Test Signal

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

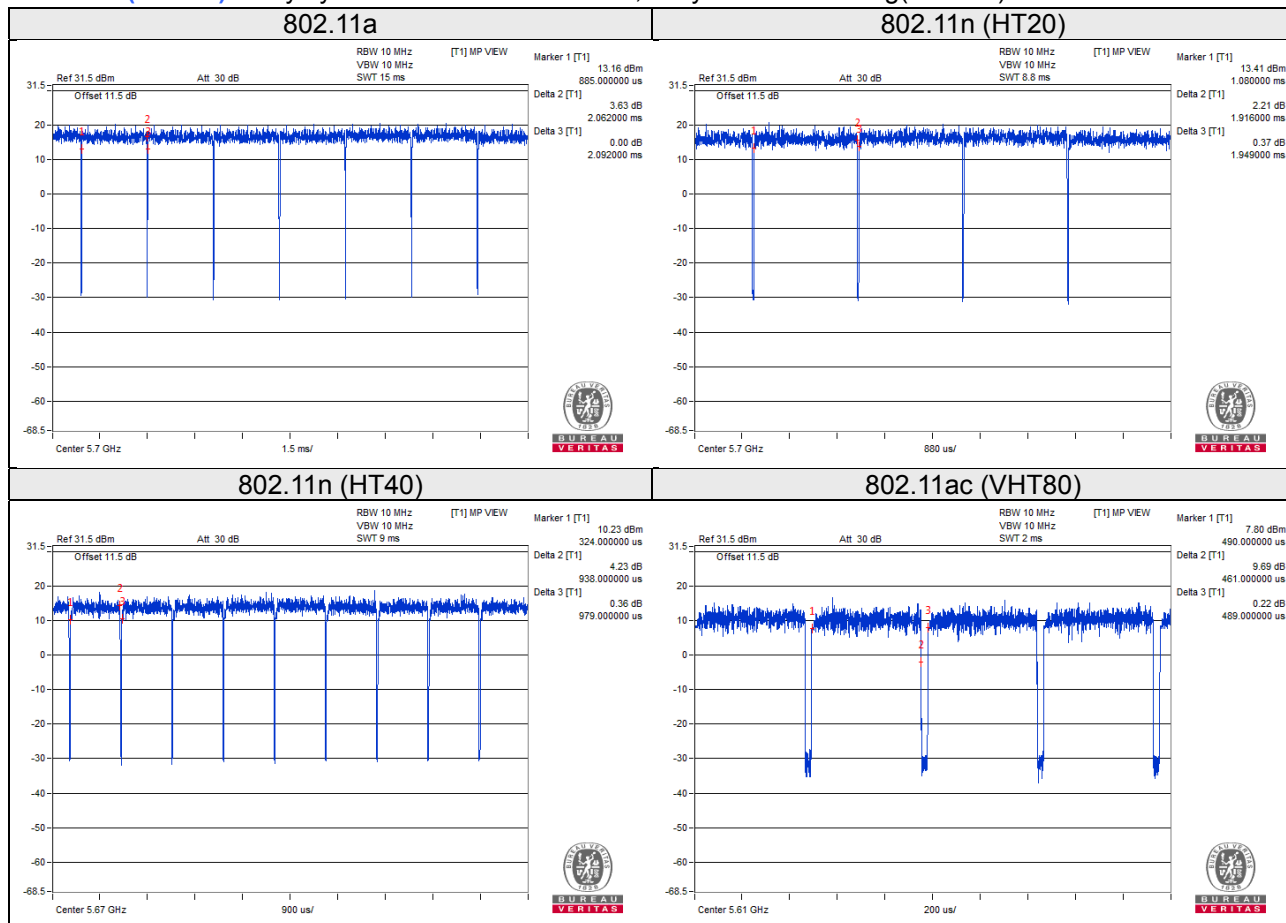
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = $2.062/2.092 = 0.986$

802.11n (HT20): Duty cycle = $1.916/1.949 = 0.983$

802.11n (HT40): Duty cycle = $0.938/0.979 = 0.958$, Duty factor = $10 * \log(1/0.958) = 0.19$

802.11ac (VHT80): Duty cycle = $0.461/0.489 = 0.943$, Duty factor = $10 * \log(1/0.943) = 0.26$



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.

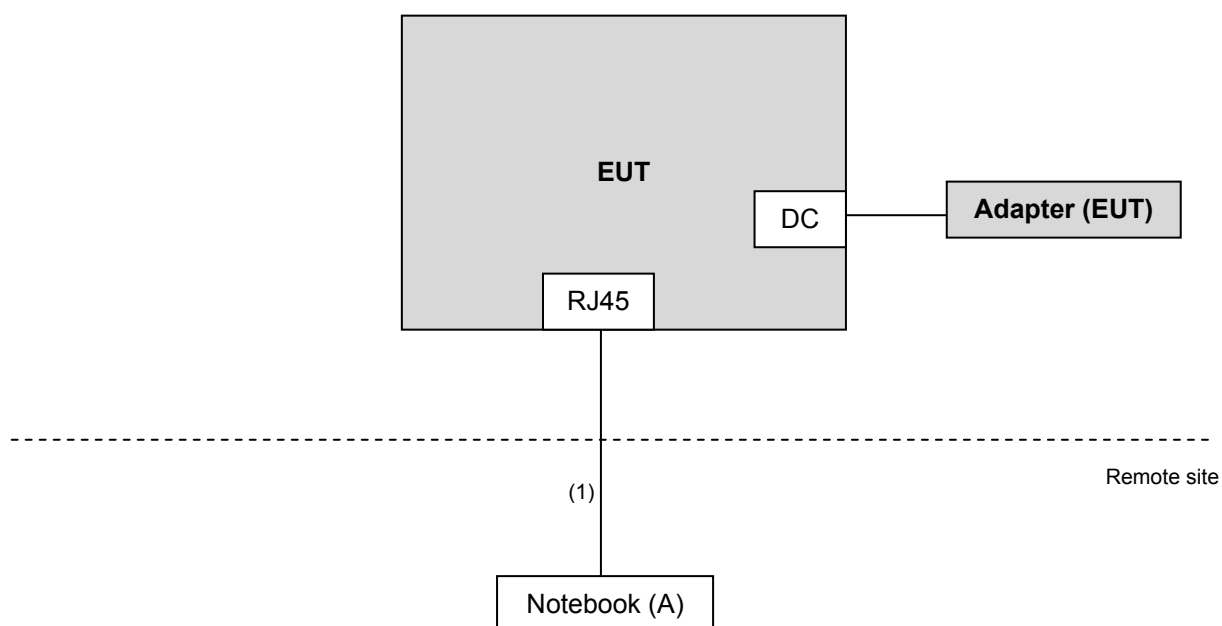
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5430	2RL3YW1	FCC DoC Approved	-

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	1	10	N	0	-

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 v02r01

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:

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

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v02r01			Field Strength at 3m	
			PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☐	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*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.				

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Oct. 17, 2017	Oct. 16, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Aug. 18, 2017	Aug. 17, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Dec. 28, 2016 Dec. 11, 2017	Dec. 27, 2017 Dec. 10, 2018
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Dec. 15, 2016 Dec. 13, 2017	Dec. 14, 2017 Dec. 12, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016 Dec. 01, 2017	Dec. 13, 2017 Nov. 30, 2018
Loop Antenna EMCI	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Aug. 08, 2017	Aug. 07, 2018
Preamplifier Agilent (Above 1GHz)	8449B	3008A01960	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2017	Aug. 07, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier Agilent	8449B	3008A1960	Aug. 08, 2017	Aug. 07, 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 4.
3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
4. The IC Site Registration No. is IC 7450F-4.

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:

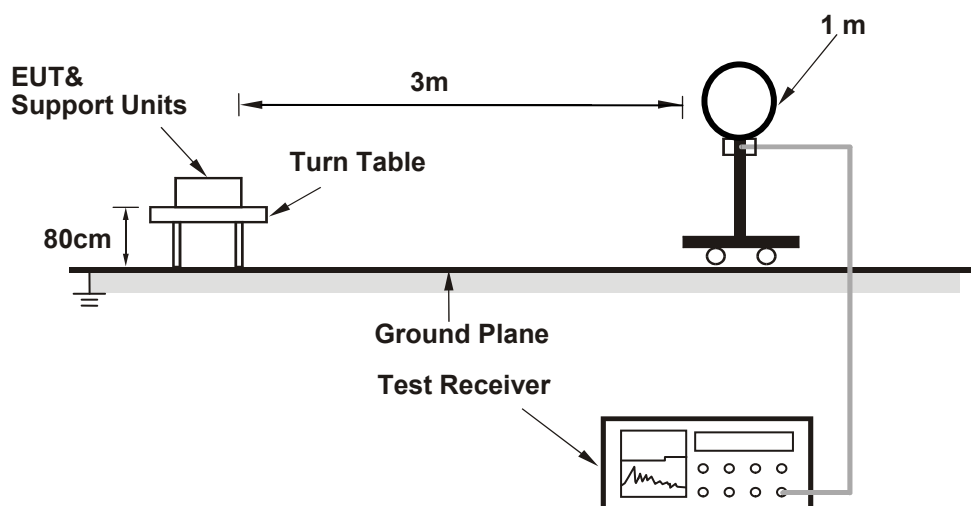
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) 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

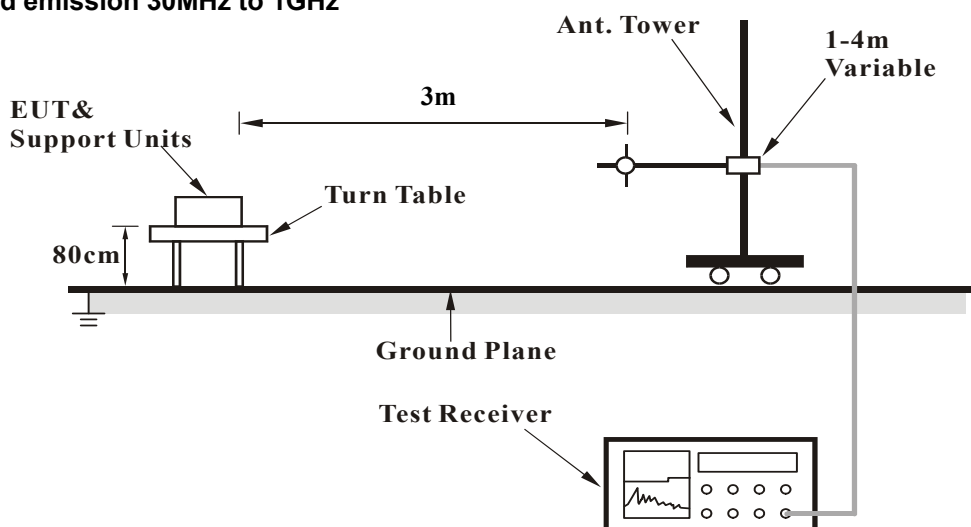
No deviation.

4.1.5 Test Set Up

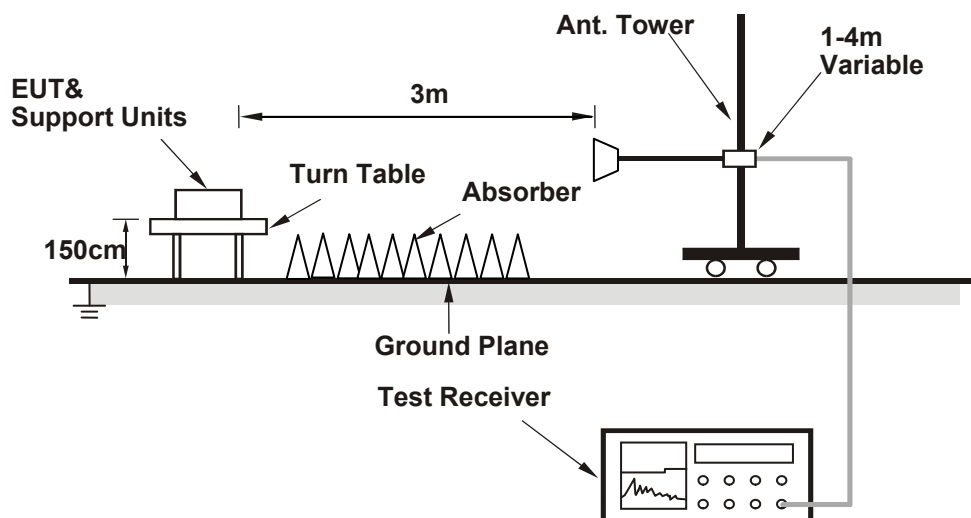
For Radiated emission below 30MHz



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

- Placed the EUT on the testing table.
- Prepared a notebook to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a RJ45 cable and ran a test program to enable EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the system in full functions.

4.1.7 Test Results

Above 1GHz data:

CDD Mode

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	2.55 H	276	52.3	7.4
2	5150.00	47.2 AV	54.0	-6.8	2.55 H	276	39.8	7.4
3	*5260.00	113.3 PK			2.41 H	309	71.8	41.5
4	*5260.00	104.0 AV			2.41 H	309	62.5	41.5
5	#10520.00	62.4 PK	74.0	-11.6	1.38 H	289	42.1	20.3
6	#10520.00	49.4 AV	54.0	-4.6	1.38 H	289	29.1	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	62.2 PK	74.0	-11.8	3.70 V	359	54.8	7.4
2	5150.00	49.3 AV	54.0	-4.7	3.70 V	359	41.9	7.4
3	*5260.00	119.6 PK			3.96 V	352	78.1	41.5
4	*5260.00	109.6 AV			3.96 V	352	68.1	41.5
5	#10520.00	63.3 PK	74.0	-10.7	2.68 V	117	43.0	20.3
6	#10520.00	50.6 AV	54.0	-3.4	2.68 V	117	30.3	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	108.2 PK			2.79 H	284	66.6	41.6
2	*5300.00	98.5 AV			2.79 H	284	56.9	41.6
3	5350.00	62.5 PK	74.0	-11.5	2.76 H	279	54.5	8.0
4	5350.00	49.0 AV	54.0	-5.0	2.76 H	279	41.0	8.0
5	10600.00	62.6 PK	74.0	-11.4	1.42 H	251	41.8	20.8
6	10600.00	49.4 AV	54.0	-4.6	1.42 H	251	28.6	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	*5300.00	114.8 PK			3.45 V	1	73.2	41.6
2	*5300.00	104.8 AV			3.45 V	1	63.2	41.6
3	5350.00	67.7 PK	74.0	-6.3	3.67 V	358	59.7	8.0
4	5350.00	52.6 AV	54.0	-1.4	3.67 V	358	44.6	8.0
5	10600.00	64.3 PK	74.0	-9.7	2.87 V	101	43.5	20.8
6	10600.00	50.6 AV	54.0	-3.4	2.87 V	101	29.8	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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	106.6 PK			2.75 H	287	65.0	41.6
2	*5320.00	96.8 AV			2.75 H	287	55.2	41.6
3	5350.00	63.2 PK	74.0	-10.8	2.59 H	294	55.2	8.0
4	5350.00	48.7 AV	54.0	-5.3	2.59 H	294	40.7	8.0
5	10640.00	62.0 PK	74.0	-12.0	1.99 H	341	41.2	20.8
6	10640.00	49.5 AV	54.0	-4.5	1.99 H	341	28.7	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	*5320.00	113.0 PK			3.57 V	357	71.4	41.6
2	*5320.00	102.8 AV			3.57 V	357	61.2	41.6
3	5350.00	69.6 PK	74.0	-4.4	3.95 V	354	61.6	8.0
4	5350.00	52.8 AV	54.0	-1.2	3.95 V	354	44.8	8.0
5	10640.00	63.4 PK	74.0	-10.6	2.48 V	142	42.6	20.8
6	10640.00	50.3 AV	54.0	-3.7	2.48 V	142	29.5	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 100	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	3.78 H	302	52.9	8.2
2	5460.00	47.6 AV	54.0	-6.4	3.78 H	302	39.4	8.2
3	#5470.00	66.7 PK	74.0	-7.3	3.81 H	318	58.5	8.2
4	#5470.00	48.3 AV	54.0	-5.7	3.81 H	318	40.1	8.2
5	*5500.00	105.7 PK			3.78 H	326	63.7	42.0
6	*5500.00	96.2 AV			3.78 H	326	54.2	42.0
7	11000.00	63.2 PK	74.0	-10.8	3.04 H	187	41.8	21.4
8	11000.00	50.1 AV	54.0	-3.9	3.04 H	187	28.7	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	65.1 PK	74.0	-8.9	3.72 V	359	56.9	8.2
2	5460.00	49.3 AV	54.0	-4.7	3.72 V	359	41.1	8.2
3	#5470.00	72.5 PK	74.0	-1.5	3.70 V	3	64.3	8.2
4	#5470.00	50.8 AV	54.0	-3.2	3.70 V	3	42.6	8.2
5	*5500.00	111.1 PK			3.67 V	352	69.1	42.0
6	*5500.00	100.9 AV			3.67 V	352	58.9	42.0
7	11000.00	64.6 PK	74.0	-9.4	2.41 V	115	43.2	21.4
8	11000.00	51.2 AV	54.0	-2.8	2.41 V	115	29.8	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	112.4 PK			3.43 H	329	70.2	42.2
2	*5580.00	102.0 AV			3.43 H	329	59.8	42.2
3	11160.00	63.0 PK	74.0	-11.0	2.68 H	177	41.5	21.5
4	11160.00	50.4 AV	54.0	-3.6	2.68 H	177	28.9	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	116.5 PK			3.66 V	15	74.3	42.2
2	*5580.00	106.8 AV			3.66 V	15	64.6	42.2
3	11160.00	64.8 PK	74.0	-9.2	1.56 V	277	43.3	21.5
4	11160.00	51.7 AV	54.0	-2.3	1.56 V	277	30.2	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.0 PK			3.41 H	308	63.5	42.5
2	*5700.00	96.0 AV			3.41 H	308	53.5	42.5
3	#5725.00	66.0 PK	74.0	-8.0	3.52 H	294	57.3	8.7
4	#5725.00	48.8 AV	54.0	-5.2	3.52 H	294	40.1	8.7
5	11400.00	63.0 PK	74.0	-11.0	2.78 H	331	41.5	21.5
6	11400.00	50.1 AV	54.0	-3.9	2.78 H	331	28.6	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	111.3 PK			3.50 V	353	68.8	42.5
2	*5700.00	100.8 AV			3.50 V	353	58.3	42.5
3	#5725.00	71.8 PK	74.0	-2.2	3.55 V	15	63.1	8.7
4	#5725.00	52.8 AV	54.0	-1.2	3.55 V	15	44.1	8.7
5	11400.00	64.6 PK	74.0	-9.4	2.40 V	187	43.1	21.5
6	11400.00	51.4 AV	54.0	-2.6	2.40 V	187	29.9	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.

802.11n (HT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	2.76 H	278	52.3	7.4
2	5150.00	46.9 AV	54.0	-7.1	2.76 H	278	39.5	7.4
3	*5260.00	112.5 PK			2.95 H	263	71.0	41.5
4	*5260.00	101.7 AV			2.95 H	263	60.2	41.5
5	#10520.00	62.7 PK	74.0	-11.3	1.80 H	317	42.4	20.3
6	#10520.00	49.2 AV	54.0	-4.8	1.80 H	317	28.9	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	62.0 PK	74.0	-12.0	3.87 V	359	54.6	7.4
2	5150.00	48.8 AV	54.0	-5.2	3.87 V	359	41.4	7.4
3	*5260.00	118.7 PK			3.30 V	352	77.2	41.5
4	*5260.00	108.4 AV			3.30 V	352	66.9	41.5
5	#10520.00	64.1 PK	74.0	-9.9	2.54 V	116	43.8	20.3
6	#10520.00	50.5 AV	54.0	-3.5	2.54 V	116	30.2	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	107.9 PK			2.76 H	279	66.3	41.6
2	*5300.00	97.8 AV			2.76 H	279	56.2	41.6
3	5350.00	62.7 PK	74.0	-11.3	2.79 H	256	54.7	8.0
4	5350.00	48.4 AV	54.0	-5.6	2.79 H	256	40.4	8.0
5	10600.00	63.0 PK	74.0	-11.0	1.82 H	306	42.2	20.8
6	10600.00	49.6 AV	54.0	-4.4	1.82 H	306	28.8	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	114.7 PK			3.49 V	358	73.1	41.6
2	*5300.00	104.4 AV			3.49 V	358	62.8	41.6
3	5350.00	69.2 PK	74.0	-4.8	3.52 V	356	61.2	8.0
4	5350.00	52.9 AV	54.0	-1.1	3.52 V	356	44.9	8.0
5	10600.00	64.0 PK	74.0	-10.0	2.31 V	150	43.2	20.8
6	10600.00	50.6 AV	54.0	-3.4	2.31 V	150	29.8	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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	106.0 PK			2.75 H	290	64.4	41.6
2	*5320.00	95.5 AV			2.75 H	290	53.9	41.6
3	5350.00	62.8 PK	74.0	-11.2	2.88 H	301	54.8	8.0
4	5350.00	48.1 AV	54.0	-5.9	2.88 H	301	40.1	8.0
5	10640.00	62.9 PK	74.0	-11.1	1.59 H	310	42.1	20.8
6	10640.00	49.5 AV	54.0	-4.5	1.59 H	310	28.7	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	*5320.00	111.0 PK			4.00 V	358	69.4	41.6
2	*5320.00	101.0 AV			4.00 V	358	59.4	41.6
3	5350.00	71.3 PK	74.0	-2.7	4.00 V	1	63.3	8.0
4	5350.00	52.5 AV	54.0	-1.5	4.00 V	1	44.5	8.0
5	10640.00	64.0 PK	74.0	-10.0	2.82 V	193	43.2	20.8
6	10640.00	50.2 AV	54.0	-3.8	2.82 V	193	29.4	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.6 PK	74.0	-10.4	3.49 H	299	55.4	8.2
2	5460.00	46.4 AV	54.0	-7.6	3.49 H	299	38.2	8.2
3	#5470.00	67.7 PK	74.0	-6.3	3.35 H	319	59.5	8.2
4	#5470.00	48.1 AV	54.0	-5.9	3.35 H	319	39.9	8.2
5	*5500.00	104.1 PK			3.32 H	312	62.1	42.0
6	*5500.00	93.9 AV			3.32 H	312	51.9	42.0
7	11000.00	62.6 PK	74.0	-11.4	2.64 H	315	41.2	21.4
8	11000.00	50.1 AV	54.0	-3.9	2.64 H	315	28.7	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	66.6 PK	74.0	-7.4	3.50 V	339	58.4	8.2
2	5460.00	48.3 AV	54.0	-5.7	3.50 V	339	40.1	8.2
3	#5470.00	73.0 PK	74.0	-1.0	3.41 V	343	64.8	8.2
4	#5470.00	49.9 AV	54.0	-4.1	3.41 V	343	41.7	8.2
5	*5500.00	109.7 PK			3.27 V	356	67.7	42.0
6	*5500.00	99.9 AV			3.27 V	356	57.9	42.0
7	11000.00	64.2 PK	74.0	-9.8	2.41 V	188	42.8	21.4
8	11000.00	51.1 AV	54.0	-2.9	2.41 V	188	29.7	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.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	110.4 PK			3.25 H	305	68.2	42.2
2	*5580.00	100.3 AV			3.25 H	305	58.1	42.2
3	11160.00	63.1 PK	74.0	-10.9	2.54 H	182	41.6	21.5
4	11160.00	50.6 AV	54.0	-3.4	2.54 H	182	29.1	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	116.7 PK			3.42 V	13	74.5	42.2
2	*5580.00	106.3 AV			3.42 V	13	64.1	42.2
3	11160.00	64.8 PK	74.0	-9.2	2.46 V	156	43.3	21.5
4	11160.00	51.7 AV	54.0	-2.3	2.46 V	156	30.2	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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.1 PK			3.16 H	321	63.6	42.5
2	*5700.00	95.8 AV			3.16 H	321	53.3	42.5
3	#5725.00	68.3 PK	74.0	-5.7	3.12 H	339	59.6	8.7
4	#5725.00	50.0 AV	54.0	-4.0	3.12 H	339	41.3	8.7
5	11400.00	63.2 PK	74.0	-10.8	2.46 H	229	41.7	21.5
6	11400.00	50.4 AV	54.0	-3.6	2.46 H	229	28.9	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	110.1 PK			3.48 V	356	67.6	42.5
2	*5700.00	99.7 AV			3.48 V	356	57.2	42.5
3	#5725.00	72.6 PK	74.0	-1.4	3.53 V	341	63.9	8.7
4	#5725.00	52.9 AV	54.0	-1.1	3.53 V	341	44.2	8.7
5	11400.00	64.4 PK	74.0	-9.6	2.98 V	175	42.9	21.5
6	11400.00	51.3 AV	54.0	-2.7	2.98 V	175	29.8	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.

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	2.16 H	328	52.1	7.4
2	5150.00	46.5 AV	54.0	-7.5	2.16 H	328	39.1	7.4
3	*5270.00	105.0 PK			2.08 H	310	63.5	41.5
4	*5270.00	94.9 AV			2.08 H	310	53.4	41.5
5	5350.00	62.8 PK	74.0	-11.2	1.98 H	287	54.8	8.0
6	5350.00	48.8 AV	54.0	-5.2	1.98 H	287	40.8	8.0
7	#10540.00	62.3 PK	74.0	-11.7	1.52 H	287	41.8	20.5
8	#10540.00	49.2 AV	54.0	-4.8	1.52 H	287	28.7	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	60.7 PK	74.0	-13.3	3.65 V	358	53.3	7.4
2	5150.00	47.5 AV	54.0	-6.5	3.65 V	358	40.1	7.4
3	*5270.00	110.7 PK			3.49 V	8	69.2	41.5
4	*5270.00	100.8 AV			3.49 V	8	59.3	41.5
5	5350.00	69.9 PK	74.0	-4.1	3.60 V	355	61.9	8.0
6	5350.00	53.0 AV	54.0	-1.0	3.60 V	355	45.0	8.0
7	#10540.00	63.6 PK	74.0	-10.4	2.46 V	187	43.1	20.5
8	#10540.00	50.7 AV	54.0	-3.3	2.46 V	187	30.2	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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	100.1 PK			2.75 H	322	58.5	41.6
2	*5310.00	90.0 AV			2.75 H	322	48.4	41.6
3	5350.00	67.4 PK	74.0	-6.6	2.86 H	311	59.4	8.0
4	5350.00	50.6 AV	54.0	-3.4	2.86 H	311	42.6	8.0
5	10620.00	62.3 PK	74.0	-11.7	1.96 H	259	41.5	20.8
6	10620.00	49.5 AV	54.0	-4.5	1.96 H	259	28.7	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	*5310.00	106.7 PK			3.49 V	350	65.1	41.6
2	*5310.00	96.7 AV			3.49 V	350	55.1	41.6
3	5350.00	71.9 PK	74.0	-2.1	3.64 V	347	63.9	8.0
4	5350.00	52.8 AV	54.0	-1.2	3.64 V	347	44.8	8.0
5	10620.00	64.0 PK	74.0	-10.0	2.56 V	195	43.2	20.8
6	10620.00	50.6 AV	54.0	-3.4	2.56 V	195	29.8	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	64.4 PK	74.0	-9.6	3.78 H	294	56.2	8.2
2	5460.00	48.5 AV	54.0	-5.5	3.78 H	294	40.3	8.2
3	#5470.00	70.6 PK	74.0	-3.4	3.83 H	290	62.4	8.2
4	#5470.00	49.7 AV	54.0	-4.3	3.83 H	290	41.5	8.2
5	*5510.00	100.1 PK			3.80 H	282	58.1	42.0
6	*5510.00	89.8 AV			3.80 H	282	47.8	42.0
7	11020.00	62.4 PK	74.0	-11.6	2.98 H	117	41.1	21.3
8	11020.00	49.9 AV	54.0	-4.1	2.98 H	117	28.6	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	66.0 PK	74.0	-8.0	3.72 V	354	57.8	8.2
2	5460.00	48.8 AV	54.0	-5.2	3.72 V	354	40.6	8.2
3	#5470.00	72.7 PK	74.0	-1.3	3.81 V	3	64.5	8.2
4	#5470.00	52.9 AV	54.0	-1.1	3.81 V	3	44.7	8.2
5	*5510.00	104.3 PK			3.31 V	356	62.3	42.0
6	*5510.00	94.2 AV			3.31 V	356	52.2	42.0
7	11020.00	64.8 PK	74.0	-9.2	2.41 V	119	43.5	21.3
8	11020.00	51.1 AV	54.0	-2.9	2.41 V	119	29.8	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	66.8 PK	74.0	-7.2	3.71 H	286	58.6	8.2
2	#5470.00	50.1 AV	54.0	-3.9	3.71 H	286	41.9	8.2
3	*5550.00	105.2 PK			3.77 H	277	63.0	42.2
4	*5550.00	95.2 AV			3.77 H	277	53.0	42.2
5	11100.00	63.4 PK	74.0	-10.6	2.16 H	315	42.1	21.3
6	11100.00	50.1 AV	54.0	-3.9	2.16 H	315	28.8	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	#5470.00	69.5 PK	74.0	-4.5	3.31 V	4	61.3	8.2
2	#5470.00	52.9 AV	54.0	-1.1	3.31 V	4	44.7	8.2
3	*5550.00	109.8 PK			3.31 V	1	67.6	42.2
4	*5550.00	100.1 AV			3.31 V	1	57.9	42.2
5	11100.00	64.5 PK	74.0	-9.5	2.90 V	183	43.2	21.3
6	11100.00	51.2 AV	54.0	-2.8	2.90 V	183	29.9	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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	103.7 PK			3.84 H	279	61.3	42.4
2	*5670.00	93.7 AV			3.84 H	279	51.3	42.4
3	#5725.00	65.9 PK	74.0	-8.1	3.98 H	278	57.2	8.7
4	#5725.00	50.8 AV	54.0	-3.2	3.98 H	278	42.1	8.7
5	11340.00	63.4 PK	74.0	-10.6	2.49 H	300	41.9	21.5
6	11340.00	50.2 AV	54.0	-3.8	2.49 H	300	28.7	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	*5670.00	108.0 PK			3.15 V	357	65.6	42.4
2	*5670.00	97.6 AV			3.15 V	357	55.2	42.4
3	#5725.00	70.1 PK	74.0	-3.9	3.31 V	360	61.4	8.7
4	#5725.00	52.9 AV	54.0	-1.1	3.31 V	360	44.2	8.7
5	11340.00	64.6 PK	74.0	-9.4	2.35 V	174	43.1	21.5
6	11340.00	51.7 AV	54.0	-2.3	2.35 V	174	30.2	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.

802.11ac (VHT80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.6 PK	74.0	-15.4	2.19 H	301	51.2	7.4
2	5150.00	46.7 AV	54.0	-7.3	2.19 H	301	39.3	7.4
3	*5290.00	95.3 PK			2.06 H	313	53.8	41.5
4	*5290.00	85.4 AV			2.06 H	313	43.9	41.5
5	5350.00	63.6 PK	74.0	-10.4	2.04 H	315	55.6	8.0
6	5350.00	49.0 AV	54.0	-5.0	2.04 H	315	41.0	8.0
7	#10580.00	62.7 PK	74.0	-11.3	1.93 H	305	42.1	20.6
8	#10580.00	49.5 AV	54.0	-4.5	1.93 H	305	28.9	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	61.7 PK	74.0	-12.3	3.52 V	359	54.3	7.4
2	5150.00	47.6 AV	54.0	-6.4	3.52 V	359	40.2	7.4
3	*5290.00	101.7 PK			3.52 V	356	60.2	41.5
4	*5290.00	91.8 AV			3.52 V	356	50.3	41.5
5	5350.00	68.1 PK	74.0	-5.9	3.49 V	352	60.1	8.0
6	5350.00	52.5 AV	54.0	-1.5	3.49 V	352	44.5	8.0
7	#10580.00	63.4 PK	74.0	-10.6	2.54 V	138	42.8	20.6
8	#10580.00	49.9 AV	54.0	-4.1	2.54 V	138	29.3	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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.5 PK	74.0	-12.5	3.77 H	286	53.3	8.2
2	5460.00	48.7 AV	54.0	-5.3	3.77 H	286	40.5	8.2
3	#5470.00	64.4 PK	74.0	-9.6	3.86 H	298	56.2	8.2
4	#5470.00	49.9 AV	54.0	-4.1	3.86 H	298	41.7	8.2
5	*5530.00	96.1 PK			3.84 H	293	54.0	42.1
6	*5530.00	85.9 AV			3.84 H	293	43.8	42.1
7	#5725.00	60.8 PK	74.0	-13.2	3.78 H	289	52.1	8.7
8	#5725.00	47.7 AV	54.0	-6.3	3.78 H	289	39.0	8.7
9	11060.00	63.5 PK	74.0	-10.5	3.01 H	187	42.2	21.3
10	11060.00	49.9 AV	54.0	-4.1	3.01 H	187	28.6	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	66.8 PK	74.0	-7.2	3.72 V	357	58.6	8.2
2	5460.00	52.4 AV	54.0	-1.6	3.72 V	357	44.2	8.2
3	#5470.00	68.6 PK	74.0	-5.4	3.79 V	9	60.4	8.2
4	#5470.00	53.0 AV	54.0	-1.0	3.79 V	9	44.8	8.2
5	*5530.00	100.3 PK			3.24 V	351	58.2	42.1
6	*5530.00	89.9 AV			3.24 V	351	47.8	42.1
7	#5725.00	60.6 PK	74.0	-13.4	3.54 V	8	51.9	8.7
8	#5725.00	47.9 AV	54.0	-6.1	3.54 V	8	39.2	8.7
9	11060.00	64.4 PK	74.0	-9.6	2.69 V	185	43.1	21.3
10	11060.00	51.1 AV	54.0	-2.9	2.69 V	185	29.8	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 122	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.4 PK	74.0	-10.6	3.71 H	280	55.2	8.2
2	5460.00	48.2 AV	54.0	-5.8	3.71 H	280	40.0	8.2
3	#5470.00	65.5 PK	74.0	-8.5	3.88 H	293	57.3	8.2
4	#5470.00	50.7 AV	54.0	-3.3	3.88 H	293	42.5	8.2
5	*5610.00	102.7 PK			3.85 H	285	60.4	42.3
6	*5610.00	92.4 AV			3.85 H	285	50.1	42.3
7	#5725.00	65.2 PK	74.0	-8.8	3.72 H	299	56.5	8.7
8	#5725.00	52.3 AV	54.0	-1.7	3.72 H	299	43.6	8.7
9	11220.00	63.6 PK	74.0	-10.4	2.41 H	312	41.9	21.7
10	11220.00	50.2 AV	54.0	-3.8	2.41 H	312	28.5	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	5460.00	66.7 PK	74.0	-7.3	3.42 V	351	58.5	8.2
2	5460.00	52.3 AV	54.0	-1.7	3.42 V	351	44.1	8.2
3	#5470.00	69.0 PK	74.0	-5.0	3.24 V	356	60.8	8.2
4	#5470.00	53.0 AV	54.0	-1.0	3.24 V	356	44.8	8.2
5	*5610.00	106.0 PK			3.20 V	355	63.7	42.3
6	*5610.00	95.9 AV			3.20 V	355	53.6	42.3
7	#5725.00	61.8 PK	74.0	-12.2	3.36 V	348	53.1	8.7
8	#5725.00	48.1 AV	54.0	-5.9	3.36 V	348	39.4	8.7
9	11220.00	64.9 PK	74.0	-9.1	2.34 V	139	43.2	21.7
10	11220.00	51.8 AV	54.0	-2.2	2.34 V	139	30.1	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.

Beamforming Mode

802.11n (HT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	3.28 H	244	53.4	2.9
2	5150.00	44.4 AV	54.0	-9.6	3.28 H	244	41.5	2.9
3	*5260.00	113.5 PK			3.11 H	223	72.0	41.5
4	*5260.00	102.3 AV			3.11 H	223	60.8	41.5
5	#10520.00	60.0 PK	74.0	-14.0	3.42 H	248	44.5	15.5
6	#10520.00	47.2 AV	54.0	-6.8	3.42 H	248	31.7	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	58.7 PK	74.0	-15.3	3.70 V	1	55.8	2.9
2	5150.00	45.7 AV	54.0	-8.3	3.70 V	1	42.8	2.9
3	*5260.00	121.8 PK			4.00 V	360	80.3	41.5
4	*5260.00	110.8 AV			4.00 V	360	69.3	41.5
5	#10520.00	60.3 PK	74.0	-13.7	1.98 V	225	44.8	15.5
6	#10520.00	49.0 AV	54.0	-5.0	1.98 V	225	33.5	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 60	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	111.0 PK			2.44 H	237	69.4	41.6
2	*5300.00	100.2 AV			2.44 H	237	58.6	41.6
3	5350.00	59.6 PK	74.0	-14.4	2.59 H	227	56.1	3.5
4	5350.00	46.3 AV	54.0	-7.7	2.59 H	227	42.8	3.5
5	10600.00	57.4 PK	74.0	-16.6	3.29 H	274	41.2	16.2
6	10600.00	47.0 AV	54.0	-7.0	3.29 H	274	30.8	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	*5300.00	116.8 PK			3.30 V	348	75.2	41.6
2	*5300.00	106.4 AV			3.30 V	348	64.8	41.6
3	5350.00	66.9 PK	74.0	-7.1	3.89 V	345	63.4	3.5
4	5350.00	52.4 AV	54.0	-1.6	3.89 V	345	48.9	3.5
5	10600.00	58.6 PK	74.0	-15.4	2.08 V	211	42.4	16.2
6	10600.00	48.1 AV	54.0	-5.9	2.08 V	211	31.9	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 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	107.8 PK			2.52 H	238	66.2	41.6
2	*5320.00	96.5 AV			2.52 H	238	54.9	41.6
3	5350.00	59.7 PK	74.0	-14.3	2.68 H	214	56.2	3.5
4	5350.00	46.6 AV	54.0	-7.4	2.68 H	214	43.1	3.5
5	10640.00	57.7 PK	74.0	-16.3	3.45 H	266	41.5	16.2
6	10640.00	47.1 AV	54.0	-6.9	3.45 H	266	30.9	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	*5320.00	114.4 PK			3.14 V	348	72.8	41.6
2	*5320.00	103.2 AV			3.14 V	348	61.6	41.6
3	5350.00	66.7 PK	74.0	-7.3	3.54 V	303	63.2	3.5
4	5350.00	52.2 AV	54.0	-1.8	3.54 V	303	48.7	3.5
5	10640.00	58.8 PK	74.0	-15.2	2.23 V	267	42.6	16.2
6	10640.00	48.0 AV	54.0	-6.0	2.23 V	267	31.8	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 100	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.0 PK	74.0	-12.0	3.38 H	310	58.4	3.6
2	5460.00	45.9 AV	54.0	-8.1	3.38 H	310	42.3	3.6
3	#5470.00	64.1 PK	74.0	-9.9	3.32 H	315	60.5	3.6
4	#5470.00	47.1 AV	54.0	-6.9	3.32 H	315	43.5	3.6
5	*5500.00	105.2 PK			3.50 H	301	63.2	42.0
6	*5500.00	94.1 AV			3.50 H	301	52.1	42.0
7	11000.00	60.5 PK	74.0	-13.5	2.85 H	274	43.8	16.7
8	11000.00	48.1 AV	54.0	-5.9	2.85 H	274	31.4	16.7
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	5460.00	65.4 PK	74.0	-8.6	3.66 V	19	61.8	3.6
2	5460.00	50.1 AV	54.0	-3.9	3.66 V	19	46.5	3.6
3	#5470.00	67.0 PK	74.0	-7.0	3.60 V	10	63.4	3.6
4	#5470.00	52.6 AV	54.0	-1.4	3.60 V	10	49.0	3.6
5	*5500.00	111.1 PK			3.75 V	344	69.1	42.0
6	*5500.00	101.2 AV			3.75 V	344	59.2	42.0
7	11000.00	61.2 PK	74.0	-12.8	2.24 V	196	44.5	16.7
8	11000.00	48.5 AV	54.0	-5.5	2.24 V	196	31.8	16.7

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	111.2 PK			3.47 H	321	69.0	42.2
2	*5580.00	101.5 AV			3.47 H	321	59.3	42.2
3	11160.00	60.6 PK	74.0	-13.4	2.78 H	282	43.9	16.7
4	11160.00	48.3 AV	54.0	-5.7	2.78 H	282	31.6	16.7
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	*5580.00	117.8 PK			3.45 V	342	75.6	42.2
2	*5580.00	108.0 AV			3.45 V	342	65.8	42.2
3	11160.00	60.9 PK	74.0	-13.1	2.32 V	199	44.2	16.7
4	11160.00	48.6 AV	54.0	-5.4	2.32 V	199	31.9	16.7

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.9 PK			3.21 H	299	64.4	42.5
2	*5700.00	96.5 AV			3.21 H	299	54.0	42.5
3	#5725.00	65.4 PK	74.0	-8.6	3.19 H	300	61.3	4.1
4	#5725.00	48.6 AV	54.0	-5.4	3.19 H	300	44.5	4.1
5	11400.00	60.4 PK	74.0	-13.6	2.91 H	250	43.7	16.7
6	11400.00	47.9 AV	54.0	-6.1	2.91 H	250	31.2	16.7
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	*5700.00	111.3 PK			3.51 V	346	68.8	42.5
2	*5700.00	100.6 AV			3.51 V	346	58.1	42.5
3	#5725.00	68.3 PK	74.0	-5.7	3.66 V	22	64.2	4.1
4	#5725.00	52.6 AV	54.0	-1.4	3.66 V	22	48.5	4.1
5	11400.00	61.2 PK	74.0	-12.8	2.18 V	201	44.5	16.7
6	11400.00	48.2 AV	54.0	-5.8	2.18 V	201	31.5	16.7

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.

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.1 PK	74.0	-13.9	2.78 H	255	57.2	2.9
2	5150.00	47.2 AV	54.0	-6.8	2.78 H	255	44.3	2.9
3	*5270.00	107.1 PK			3.10 H	232	65.6	41.5
4	*5270.00	96.7 AV			3.10 H	232	55.2	41.5
5	5350.00	64.2 PK	74.0	-9.8	2.97 H	241	60.7	3.5
6	5350.00	49.7 AV	54.0	-4.3	2.97 H	241	46.2	3.5
7	#10540.00	58.6 PK	74.0	-15.4	3.16 H	207	42.9	15.7
8	#10540.00	46.6 AV	54.0	-7.4	3.16 H	207	30.9	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	5150.00	61.3 PK	74.0	-12.7	3.29 V	344	58.4	2.9
2	5150.00	49.6 AV	54.0	-4.4	3.29 V	344	46.7	2.9
3	*5270.00	113.8 PK			3.48 V	348	72.3	41.5
4	*5270.00	101.8 AV			3.48 V	348	60.3	41.5
5	5350.00	70.0 PK	74.0	-4.0	3.48 V	356	66.5	3.5
6	5350.00	52.2 AV	54.0	-1.8	3.48 V	356	48.7	3.5
7	#10540.00	59.9 PK	74.0	-14.1	1.78 V	235	44.2	15.7
8	#10540.00	47.5 AV	54.0	-6.5	1.78 V	235	31.8	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 62	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	104.2 PK			2.81 H	36	62.6	41.6
2	*5310.00	93.7 AV			2.81 H	36	52.1	41.6
3	5350.00	67.5 PK	74.0	-6.5	2.22 H	323	64.0	3.5
4	5350.00	50.6 AV	54.0	-3.4	2.22 H	323	47.1	3.5
5	10620.00	60.2 PK	74.0	-13.8	1.55 H	320	44.0	16.2
6	10620.00	47.2 AV	54.0	-6.8	1.55 H	320	31.0	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	*5310.00	107.9 PK			3.39 V	19	66.3	41.6
2	*5310.00	97.8 AV			3.39 V	19	56.2	41.6
3	5350.00	70.2 PK	74.0	-3.8	3.50 V	323	66.7	3.5
4	5350.00	52.8 AV	54.0	-1.2	3.50 V	323	49.3	3.5
5	10620.00	59.4 PK	74.0	-14.6	2.16 V	244	43.2	16.2
6	10620.00	47.1 AV	54.0	-6.9	2.16 V	244	30.9	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 102	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	3.36 H	325	58.6	3.6
2	5460.00	46.2 AV	54.0	-7.8	3.36 H	325	42.6	3.6
3	#5470.00	64.5 PK	74.0	-9.5	3.39 H	320	60.9	3.6
4	#5470.00	47.5 AV	54.0	-6.5	3.39 H	320	43.9	3.6
5	*5510.00	102.0 PK			3.52 H	329	60.0	42.0
6	*5510.00	92.3 AV			3.52 H	329	50.3	42.0
7	11020.00	60.6 PK	74.0	-13.4	2.25 H	58	44.1	16.5
8	11020.00	49.1 AV	54.0	-4.9	2.25 H	58	32.6	16.5
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	63.6 PK	74.0	-10.4	3.29 V	353	60.0	3.6
2	5460.00	51.3 AV	54.0	-2.7	3.29 V	353	47.7	3.6
3	#5470.00	67.4 PK	74.0	-6.6	3.20 V	359	63.8	3.6
4	#5470.00	52.6 AV	54.0	-1.4	3.20 V	359	49.0	3.6
5	*5510.00	105.1 PK			3.58 V	356	63.1	42.0
6	*5510.00	94.8 AV			3.58 V	356	52.8	42.0
7	11020.00	61.6 PK	74.0	-12.4	2.98 V	117	45.1	16.5
8	11020.00	50.1 AV	54.0	-3.9	2.98 V	117	33.6	16.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	68.0 PK	74.0	-6.0	3.51 H	236	64.4	3.6
2	#5470.00	51.2 AV	54.0	-2.8	3.51 H	236	47.6	3.6
3	*5550.00	108.0 PK			3.45 H	229	65.8	42.2
4	*5550.00	98.0 AV			3.45 H	229	55.8	42.2
5	11100.00	61.4 PK	74.0	-12.6	2.17 H	152	44.9	16.5
6	11100.00	47.1 AV	54.0	-6.9	2.17 H	152	30.6	16.5
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	#5470.00	69.2 PK	74.0	-4.8	3.14 V	18	65.6	3.6
2	#5470.00	52.5 AV	54.0	-1.5	3.14 V	18	48.9	3.6
3	*5550.00	110.8 PK			3.43 V	16	68.6	42.2
4	*5550.00	101.1 AV			3.43 V	16	58.9	42.2
5	11100.00	62.7 PK	74.0	-11.3	2.88 V	180	46.2	16.5
6	11100.00	49.4 AV	54.0	-4.6	2.88 V	180	32.9	16.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	104.6 PK			3.80 H	274	62.2	42.4
2	*5670.00	94.4 AV			3.80 H	274	52.0	42.4
3	#5725.00	63.2 PK	74.0	-10.8	3.84 H	266	59.1	4.1
4	#5725.00	50.5 AV	54.0	-3.5	3.84 H	266	46.4	4.1
5	11340.00	60.2 PK	74.0	-13.8	2.28 H	311	43.5	16.7
6	11340.00	48.6 AV	54.0	-5.4	2.28 H	311	31.9	16.7
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	*5670.00	109.2 PK			3.22 V	351	66.8	42.4
2	*5670.00	98.5 AV			3.22 V	351	56.1	42.4
3	#5725.00	67.3 PK	74.0	-6.7	3.33 V	17	63.2	4.1
4	#5725.00	53.0 AV	54.0	-1.0	3.33 V	17	48.9	4.1
5	11340.00	60.9 PK	74.0	-13.1	2.41 V	183	44.2	16.7
6	11340.00	48.8 AV	54.0	-5.2	2.41 V	183	32.1	16.7

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	2.88 H	298	56.7	2.9
2	5150.00	48.3 AV	54.0	-5.7	2.88 H	298	45.4	2.9
3	*5290.00	98.8 PK			2.93 H	53	57.3	41.5
4	*5290.00	88.6 AV			2.93 H	53	47.1	41.5
5	5350.00	70.0 PK	74.0	-4.0	2.94 H	270	66.5	3.5
6	5350.00	50.2 AV	54.0	-3.8	2.94 H	270	46.7	3.5
7	#10580.00	59.2 PK	74.0	-14.8	2.38 H	197	43.2	16.0
8	#10580.00	46.9 AV	54.0	-7.1	2.38 H	197	30.9	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	5150.00	63.5 PK	74.0	-10.5	2.79 V	301	60.6	2.9
2	5150.00	50.2 AV	54.0	-3.8	2.79 V	301	47.3	2.9
3	*5290.00	104.6 PK			3.52 V	14	63.1	41.5
4	*5290.00	94.1 AV			3.52 V	14	52.6	41.5
5	5350.00	72.0 PK	74.0	-2.0	3.01 V	272	68.5	3.5
6	5350.00	52.6 AV	54.0	-1.4	3.01 V	272	49.1	3.5
7	#10580.00	59.7 PK	74.0	-14.3	2.22 V	271	43.7	16.0
8	#10580.00	47.5 AV	54.0	-6.5	2.22 V	271	31.5	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 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	3.66 H	280	57.5	3.6
2	5460.00	47.8 AV	54.0	-6.2	3.66 H	280	44.2	3.6
3	#5470.00	62.5 PK	74.0	-11.5	3.71 H	284	58.9	3.6
4	#5470.00	48.7 AV	54.0	-5.3	3.71 H	284	45.1	3.6
5	*5530.00	97.0 PK			3.80 H	292	54.9	42.1
6	*5530.00	86.5 AV			3.80 H	292	44.4	42.1
7	#5725.00	58.2 PK	74.0	-15.8	3.88 H	302	54.1	4.1
8	#5725.00	46.3 AV	54.0	-7.7	3.88 H	302	42.2	4.1
9	11060.00	60.5 PK	74.0	-13.5	2.40 H	201	44.0	16.5
10	11060.00	47.9 AV	54.0	-6.1	2.40 H	201	31.4	16.5
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	65.1 PK	74.0	-8.9	3.34 V	11	61.5	3.6
2	5460.00	51.1 AV	54.0	-2.9	3.34 V	11	47.5	3.6
3	#5470.00	67.0 PK	74.0	-7.0	3.30 V	14	63.4	3.6
4	#5470.00	52.6 AV	54.0	-1.4	3.30 V	14	49.0	3.6
5	*5530.00	101.6 PK			3.52 V	338	59.5	42.1
6	*5530.00	90.8 AV			3.52 V	338	48.7	42.1
7	#5725.00	57.5 PK	74.0	-16.5	3.62 V	31	53.4	4.1
8	#5725.00	46.1 AV	54.0	-7.9	3.62 V	31	42.0	4.1
9	11060.00	59.8 PK	74.0	-14.2	2.74 V	194	43.3	16.5
10	11060.00	47.8 AV	54.0	-6.2	2.74 V	194	31.3	16.5

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.0 PK	74.0	-12.0	3.77 H	285	58.4	3.6
2	5460.00	46.7 AV	54.0	-7.3	3.77 H	285	43.1	3.6
3	#5470.00	64.0 PK	74.0	-10.0	3.80 H	289	60.4	3.6
4	#5470.00	48.8 AV	54.0	-5.2	3.80 H	289	45.2	3.6
5	*5610.00	103.8 PK			3.65 H	302	61.5	42.3
6	*5610.00	93.5 AV			3.65 H	302	51.2	42.3
7	#5725.00	58.4 PK	74.0	-15.6	3.71 H	291	54.3	4.1
8	#5725.00	47.6 AV	54.0	-6.4	3.71 H	291	43.5	4.1
9	11220.00	60.8 PK	74.0	-13.2	2.33 H	234	43.8	17.0
10	11220.00	48.4 AV	54.0	-5.6	2.33 H	234	31.4	17.0
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	5460.00	64.8 PK	74.0	-9.2	3.47 V	18	61.2	3.6
2	5460.00	51.1 AV	54.0	-2.9	3.47 V	18	47.5	3.6
3	#5470.00	67.1 PK	74.0	-6.9	3.51 V	22	63.5	3.6
4	#5470.00	52.7 AV	54.0	-1.3	3.51 V	22	49.1	3.6
5	*5610.00	107.3 PK			3.28 V	354	65.0	42.3
6	*5610.00	96.7 AV			3.28 V	354	54.4	42.3
7	#5725.00	58.8 PK	74.0	-15.2	3.19 V	41	54.7	4.1
8	#5725.00	46.7 AV	54.0	-7.3	3.19 V	41	42.6	4.1
9	11220.00	61.2 PK	74.0	-12.8	2.15 V	131	44.2	17.0
10	11220.00	48.9 AV	54.0	-5.1	2.15 V	131	31.9	17.0

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.

Below 1GHz Worst-Case Data: 802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.42	32.1 QP	40.0	-7.9	1.51 H	270	46.8	-14.7
2	88.11	28.1 QP	43.5	-15.4	2.00 H	202	47.9	-19.8
3	375.29	36.2 QP	46.0	-9.8	1.01 H	288	46.9	-10.7
4	534.40	42.3 QP	46.0	-3.7	1.51 H	243	50.2	-7.9
5	625.60	35.6 QP	46.0	-10.4	1.51 H	112	40.9	-5.3
6	934.13	36.7 QP	46.0	-9.3	1.51 H	104	36.5	0.2
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	35.72	31.5 QP	40.0	-8.5	1.00 V	71	47.2	-15.7
2	62.89	28.7 QP	40.0	-11.3	1.00 V	313	43.9	-15.2
3	375.29	31.3 QP	46.0	-14.7	1.00 V	297	42.0	-10.7
4	534.40	36.9 QP	46.0	-9.1	1.50 V	192	44.8	-7.9
5	740.09	37.4 QP	46.0	-8.6	1.50 V	148	40.5	-3.1
6	939.95	37.2 QP	46.0	-8.8	2.00 V	7	36.6	0.6

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

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
			Nov. 23, 2017	Nov. 22, 2018
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

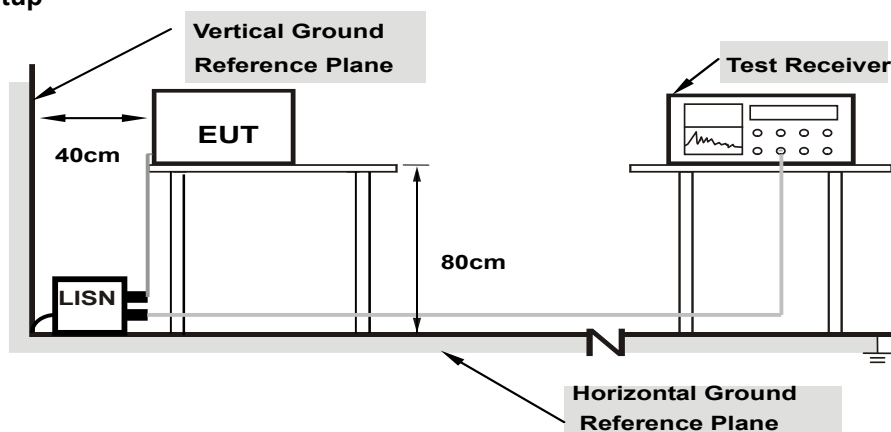
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

NOTE: 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.

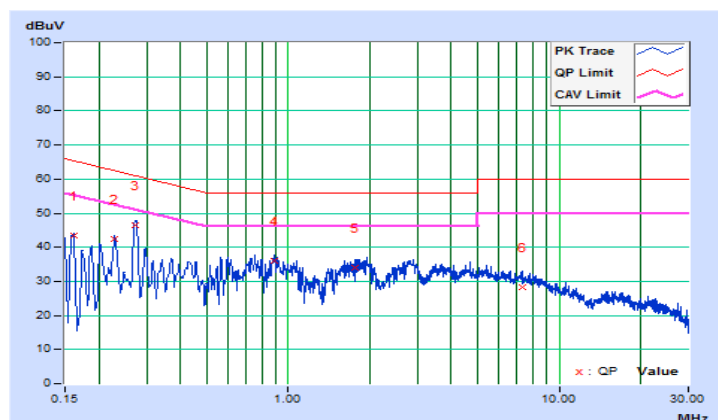
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16096	10.45	32.93	19.37	43.38	29.82	65.41	55.41	-22.03	-25.59
2	0.22791	10.46	31.80	27.77	42.26	38.23	62.53	52.53	-20.27	-14.30
3	0.27120	10.48	35.88	32.40	46.36	42.88	61.08	51.08	-14.72	-8.20
4	0.88508	10.49	25.68	19.68	36.17	30.17	56.00	46.00	-19.83	-15.83
5	1.76092	10.51	23.64	17.17	34.15	27.68	56.00	46.00	-21.85	-18.32
6	7.32094	10.80	17.44	11.82	28.24	22.62	60.00	50.00	-31.76	-27.38

REMARKS:

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

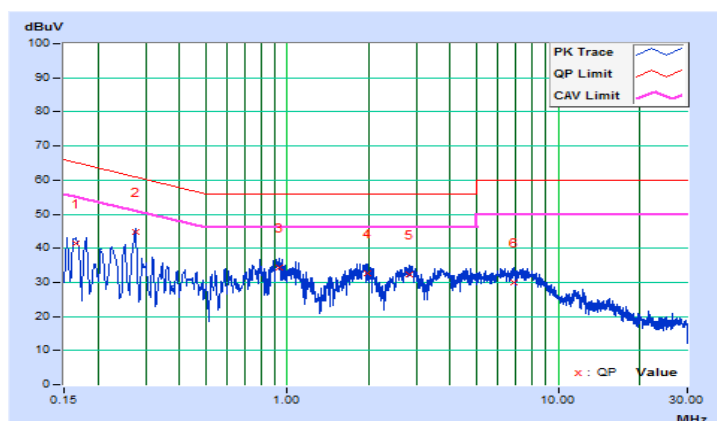


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16526	10.21	31.28	19.52	41.49	29.73	65.20	55.20	-23.71	-25.47
2	0.27512	10.23	34.57	31.05	44.80	41.28	60.96	50.96	-16.16	-9.68
3	0.93568	10.26	23.98	16.75	34.24	27.01	56.00	46.00	-21.76	-18.99
4	1.97988	10.31	22.21	13.42	32.52	23.73	56.00	46.00	-23.48	-22.27
5	2.82444	10.35	22.07	14.43	32.42	24.78	56.00	46.00	-23.58	-21.22
6	6.89476	10.53	19.44	12.21	29.97	22.74	60.00	50.00	-30.03	-27.26

REMARKS:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

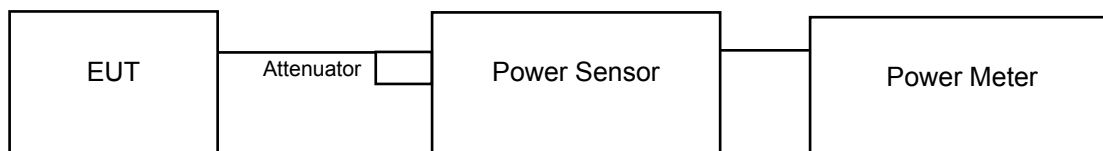
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

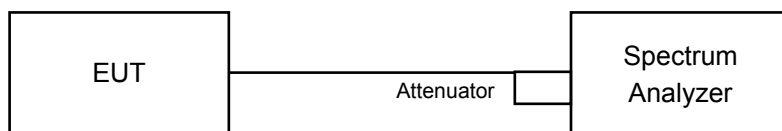
4.3.2 Test Setup

For Power Output

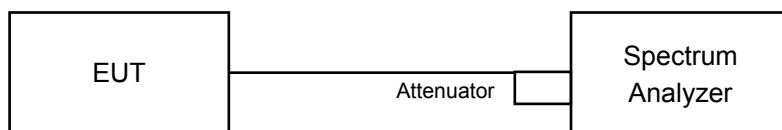
802.11a, 802.11n (HT20), 802.11n (HT40)



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)

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

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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:

CDD Mode

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

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	21.28	20.15	237.790	23.76	24.00	Pass
60	5300	16.56	15.88	84.016	19.24	24.00	Pass
64	5320	14.70	14.03	54.805	17.39	24.00	Pass
100	5500	14.54	13.98	53.448	17.28	24.00	Pass
116	5580	21.13	20.17	233.710	23.69	24.00	Pass
140	5700	13.58	12.72	41.510	16.18	24.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(50.88) = 28.07\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(26.50) = 25.23\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(25.31) = 25.03\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(25.51) = 25.07\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(43.99) = 27.43\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.83) = 24.39\text{ dBm} > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(42.99) = 27.33\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(26.09) = 25.16\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(24.77) = 24.94\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.85) = 24.39\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(43.21) = 27.36\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.91) = 24.41\text{ dBm} > 24\text{dBm}$

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	21.15	20.08	232.176	23.66	24.00	Pass
60	5300	16.81	15.93	87.147	19.40	24.00	Pass
64	5320	14.17	13.39	47.949	16.81	24.00	Pass
100	5500	13.60	13.06	43.139	16.35	24.00	Pass
116	5580	21.32	20.07	237.144	23.75	24.00	Pass
140	5700	13.45	12.58	40.244	16.05	24.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(48.89) = 27.89\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(32.09) = 26.06\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(22.44) = 24.51\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(22.13) = 24.45\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(47.39) = 27.76\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(22.24) = 24.47\text{ dBm} > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(46.18) = 27.64\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(31.86) = 26.03\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.83) = 24.39\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.85) = 24.39\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(47.94) = 27.81\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(22.05) = 24.43\text{ dBm} > 24\text{dBm}$

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	16.50	15.79	82.599	19.17	24.00	Pass
62	5310	11.25	11.03	26.012	14.15	24.00	Pass
102	5510	10.89	9.69	21.585	13.34	24.00	Pass
110	5550	16.45	15.71	81.396	19.11	24.00	Pass
134	5670	13.38	12.63	40.100	16.03	24.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.25) = 30.20\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.77) = 27.21\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.51) = 27.18\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(78.52) = 29.95\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(65.19) = 29.14\text{ dBm} > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(73.35) = 29.65\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.10) = 27.14\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.13) = 27.14\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(81.35) = 30.10\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(55.81) = 28.47\text{ dBm} > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	9.75	9.57	18.498	12.67	24.00	Pass
106	5530	9.62	8.99	17.087	12.33	24.00	Pass
122	5610	15.40	15.04	66.589	18.23	24.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(82.58) = 30.17\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.57) = 30.17\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(107.02) = 31.29\text{ dBm} > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(82.36) = 30.16\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.21) = 30.15\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(112.90) = 31.53\text{ dBm} > 24\text{dBm}$

Beamforming Mode

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

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	21.15	20.08	232.176	23.66	23.99	Pass
60	5300	16.81	15.93	87.147	19.40	23.99	Pass
64	5320	14.17	13.39	47.949	16.81	23.99	Pass
100	5500	13.60	13.06	43.139	16.35	23.99	Pass
116	5580	21.32	20.07	237.144	23.75	23.99	Pass
140	5700	13.45	12.58	40.244	16.05	23.99	Pass

Note:

1. Directional gain = $3\text{dBi} + 10\log(2) = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to "Determined Limit-(6.01-6)".

* Determined Limit means compare the minimum value after 24dBm and $11\text{ dBm} + 10\log(26\text{ dB bandwidth})$

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

Chain 0

1. $11\text{dBm} + 10\log(48.89) = 27.89\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(32.09) = 26.06\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(22.44) = 24.51\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(22.13) = 24.45\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(47.39) = 27.76\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(22.24) = 24.47\text{ dBm} > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(46.18) = 27.64\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(31.86) = 26.03\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.83) = 24.39\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.85) = 24.39\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(47.94) = 27.81\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(22.05) = 24.43\text{ dBm} > 24\text{dBm}$

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	16.50	15.79	82.599	19.17	23.99	Pass
62	5310	11.25	11.03	26.012	14.15	23.99	Pass
102	5510	10.89	9.69	21.585	13.34	23.99	Pass
110	5550	16.45	15.71	81.396	19.11	23.99	Pass
134	5670	13.38	12.63	40.100	16.03	23.99	Pass

Note:

1. Directional gain = $3\text{dBi} + 10\log(2) = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to "Determined Limit-(6.01-6)".

* Determined Limit means compare the minimum value after 24dBm and $11\text{ dBm} + 10\log(26\text{ dB bandwidth})$

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

Chain 0

1. $11\text{dBm} + 10\log(83.25) = 30.20\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.77) = 27.21\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.51) = 27.18\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(78.52) = 29.95\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(65.19) = 29.14\text{ dBm} > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(73.35) = 29.65\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.10) = 27.14\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.13) = 27.14\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(81.35) = 30.10\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(55.81) = 28.47\text{ dBm} > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	9.75	9.57	18.498	12.67	23.99	Pass
106	5530	9.62	8.99	17.087	12.33	23.99	Pass
122	5610	15.40	15.04	66.589	18.23	23.99	Pass

Note:

1. Directional gain = $3\text{dBi} + 10\log(2) = 6.01\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to "Determined Limit-(6.01-6)".

* Determined Limit means compare the minimum value after 24dBm and $11\text{ dBm} + 10\log(26\text{ dB bandwidth})$

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

Chain 0

1. $11\text{dBm} + 10\log(82.58) = 30.17\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.57) = 30.17\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(107.02) = 31.29\text{ dBm} > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(82.36) = 30.16\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.21) = 30.15\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(112.90) = 31.53\text{ dBm} > 24\text{dBm}$

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	50.88	42.99
60	5300	26.50	26.09
64	5320	25.31	24.77
100	5500	25.51	21.85
116	5580	43.99	43.21
140	5700	21.83	21.91

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	48.89	46.18
60	5300	32.09	31.86
64	5320	22.44	21.83
100	5500	22.13	21.85
116	5580	47.39	47.94
140	5700	22.24	22.05

802.11n (HT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	83.25	73.35
62	5310	41.77	41.10
102	5510	41.51	41.13
110	5550	78.52	81.35
134	5670	65.19	55.81

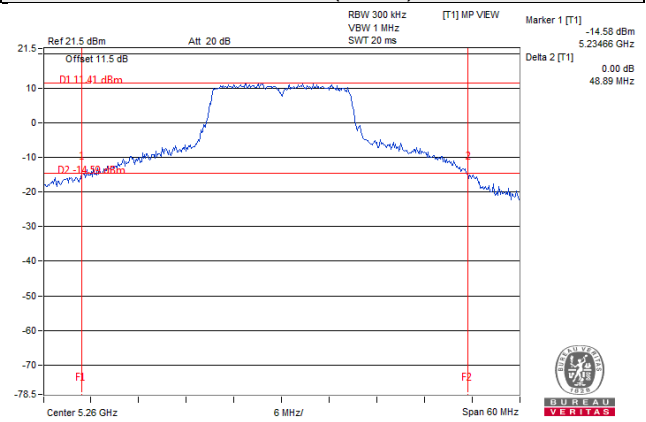
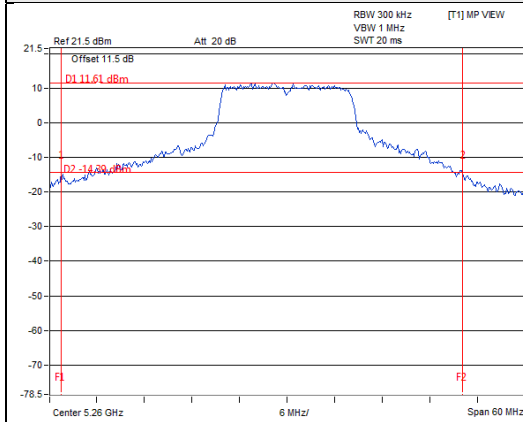
802.11ac (VHT80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.58	82.36
106	5530	82.57	82.21
122	5610	107.02	112.90

Spectrum Plot of Worst Value

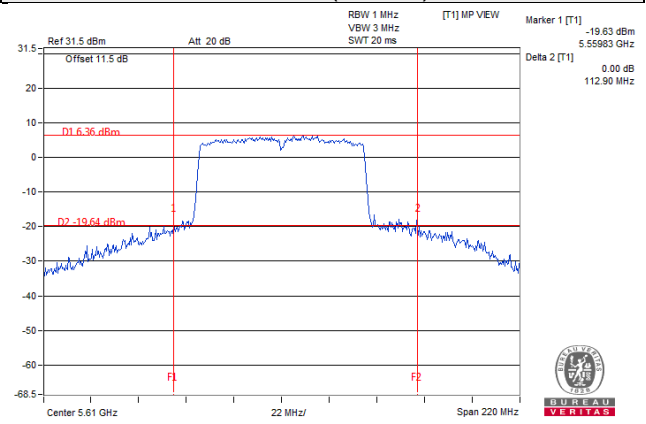
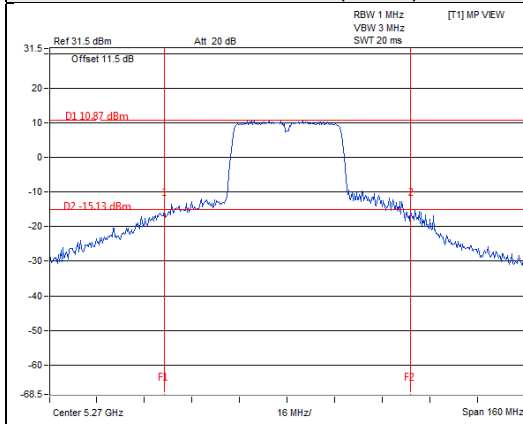
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)



EUT Maximum Conducted Power

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	237.790	23.76
5470~5725	233.710	23.69

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	232.176	23.66
5470~5725	237.144	23.75

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	82.599	19.17
5470~5725	81.396	19.11

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	18.498	12.67
5470~5725	66.589	18.23

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

Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	232.176	23.66
5470~5725	237.144	23.75

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	82.599	19.17
5470~5725	81.396	19.11

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

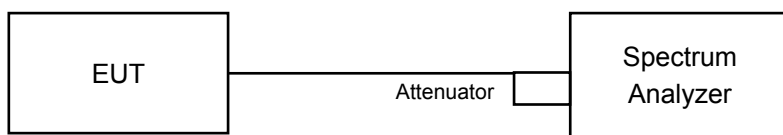
802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	18.498	12.67
5470~5725	66.589	18.23

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

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	27.84	27.12
60	5300	17.52	17.28
64	5320	17.28	17.16
100	5500	17.28	17.04
116	5580	27.12	28.44
140	5700	17.04	17.16

802.11n (HT20)

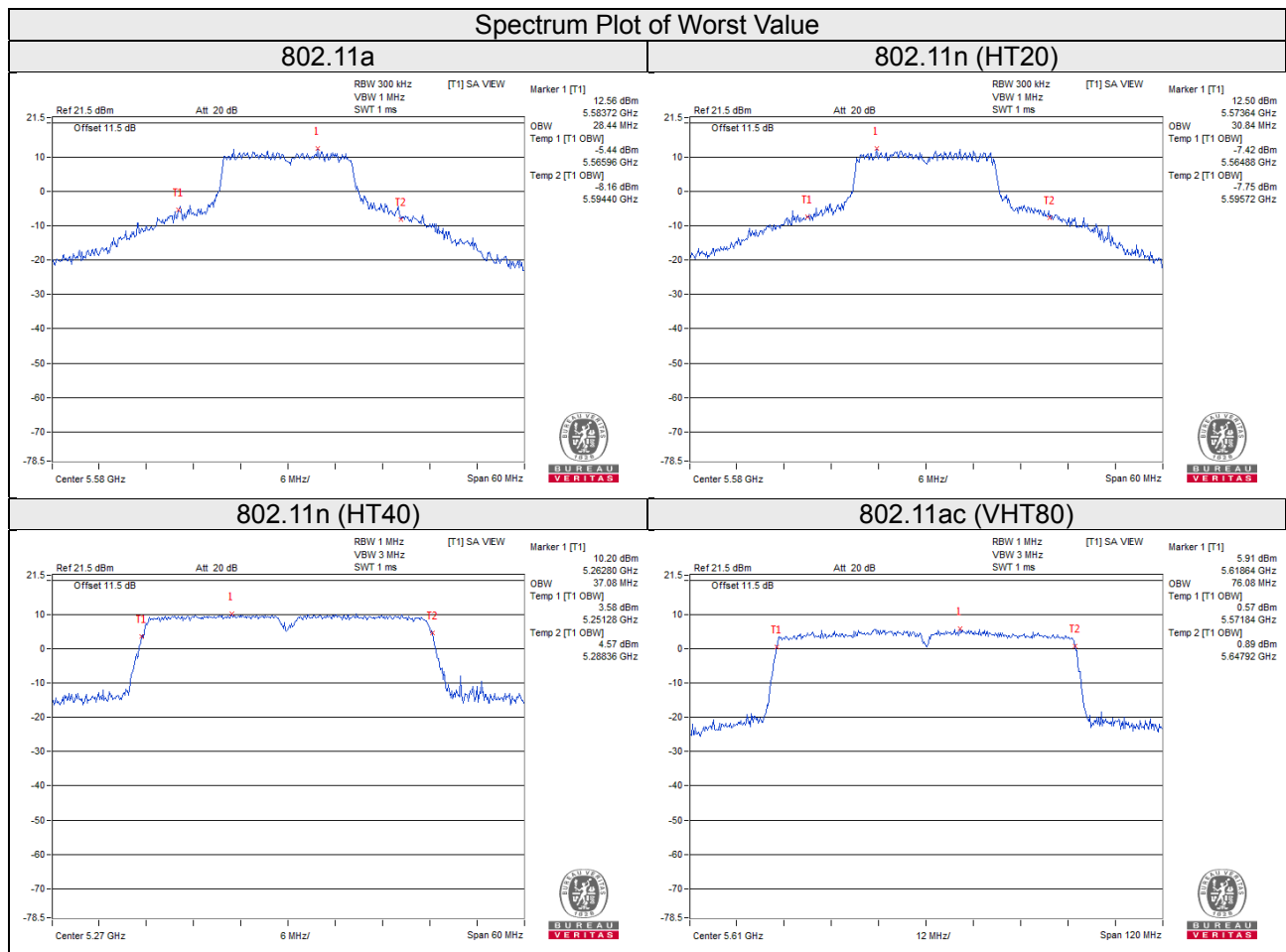
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	28.44	27.96
60	5300	18.48	18.24
64	5320	18.24	18.00
100	5500	18.24	18.00
116	5580	29.04	30.84
140	5700	18.24	18.12

802.11n (HT40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	37.08	36.84
62	5310	36.96	36.72
102	5510	36.96	36.60
110	5550	37.08	36.96
134	5670	36.96	36.84

802.11ac (VHT80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	75.84	75.84
106	5530	75.84	76.08
122	5610	75.84	76.08

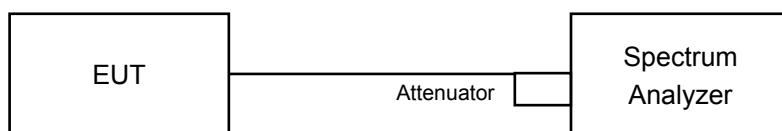


4.5 Peak Power Spectral Density Measurement

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

Duty cycle of test signal is $\geq 98\%$

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

For U-NII-3 band:

Duty cycle of test signal is $\geq 98\%$

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 $BWCF = 10\log(500 \text{ kHz} / 300 \text{ kHz})$.
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value.

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-2A, U-NII-2C band

802.11a

Chan.	Frequency (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
52	5260	7.00	7.89	10.48	10.99	Pass
60	5300	2.87	2.96	5.93	10.99	Pass
64	5320	0.93	0.66	3.81	10.99	Pass
100	5500	-0.15	0.06	2.97	10.99	Pass
116	5580	6.68	7.31	10.02	10.99	Pass
140	5700	-0.62	-0.24	2.58	10.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-2A, U-NII-2C:** Directional gain = 3dBi + 10log (2) = 6.01dBi > 6dBi, so the power density limit shall be reduced to 11-(6.01-6) = 10.99dBm.

802.11n (HT20)

Chan.	Frequency (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
52	5260	6.92	7.31	10.13	10.99	Pass
60	5300	2.57	2.65	5.62	10.99	Pass
64	5320	0.04	0.06	3.06	10.99	Pass
100	5500	-1.38	-1.31	1.67	10.99	Pass
116	5580	6.47	6.95	9.73	10.99	Pass
140	5700	-0.89	-1.10	2.02	10.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-2A, U-NII-2C:** Directional gain = 3dBi + 10log (2) = 6.01dBi > 6dBi, so the power density limit shall be reduced to 11-(6.01-6) = 10.99dBm.

802.11n (HT40)

Chan.	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor	Total PSD With Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	0.07	-0.59	0.19	2.95	10.99	Pass
62	5310	-5.25	-5.78	0.19	-2.31	10.99	Pass
102	5510	-6.49	-7.99	0.19	-3.98	10.99	Pass
110	5550	-0.55	-1.40	0.19	2.24	10.99	Pass
134	5670	-3.03	-3.86	0.19	-0.23	10.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-2A, U-NII-2C:** Directional gain = 3dBi + 10log (2) = 6.01dBi > 6dBi, so the power density limit shall be reduced to 11-(6.01-6) = 10.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

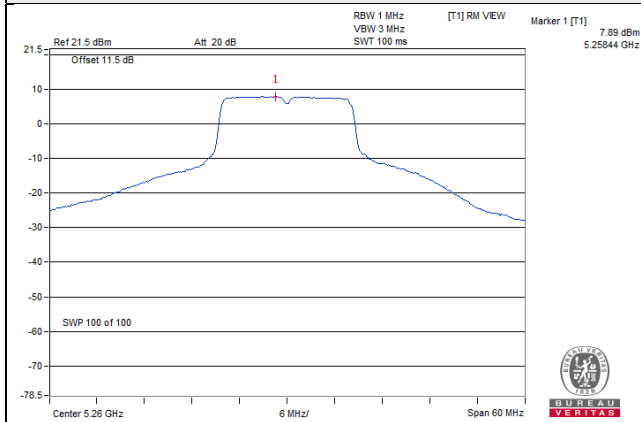
Chan.	Frequency (MHz)	PSD (dBm/MHz)		Duty Factor	Total PSD With Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-9.97	-10.18	0.26	-6.81	10.99	Pass
106	5530	-10.20	-11.38	0.26	-7.48	10.99	Pass
122	5610	-4.49	-5.06	0.26	-1.50	10.99	Pass

Note:

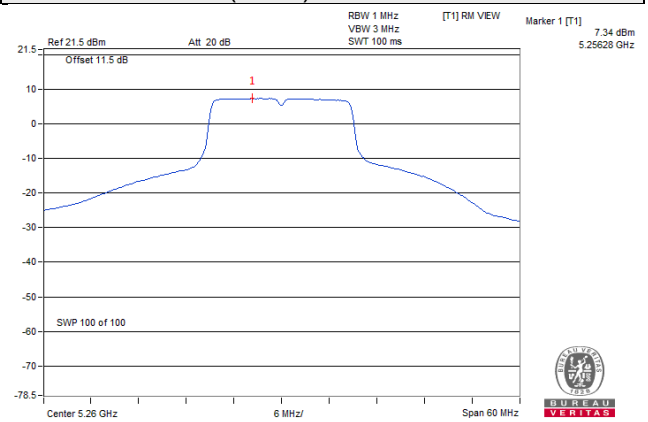
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-2A, U-NII-2C:** Directional gain = 3dBi + 10log (2) = 6.01dBi > 6dBi, so the power density limit shall be reduced to 11-(6.01-6) = 10.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

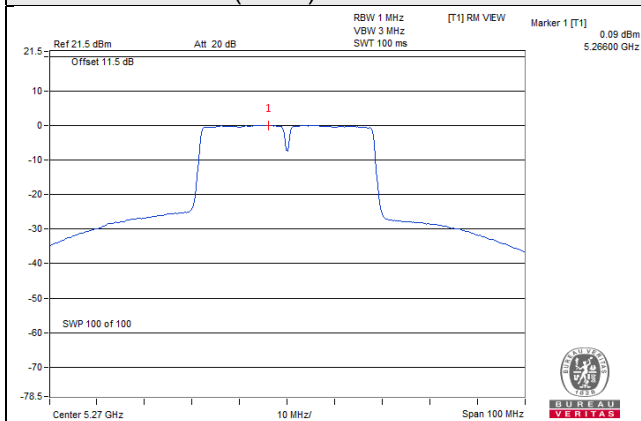
802.11a / Chain 1 / Ch 52



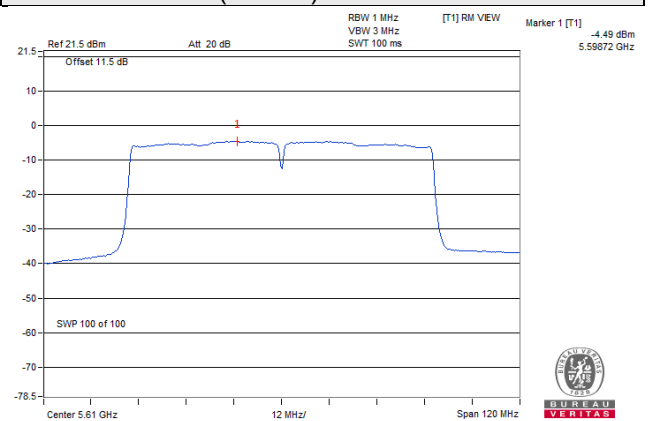
802.11n (HT20) / Chain 1 / Ch 52



802.11n (HT40) / Chain 0 / Ch 54



802.11ac (VHT80) / Chain 0 / Ch 122

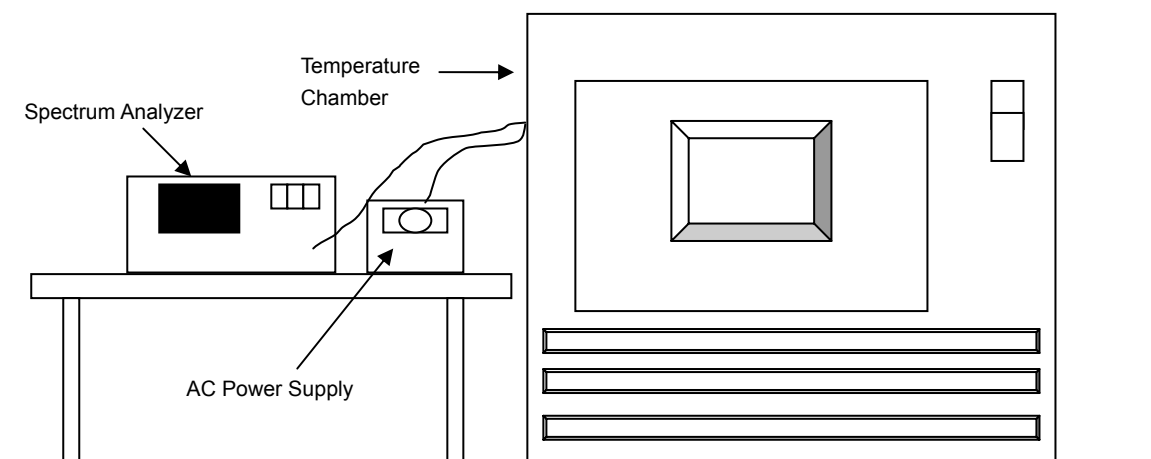


4.6 Frequency Stability

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

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

4.6.5 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: 5260MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5260.0255	0.00048	5260.0251	0.00048	5260.0265	0.00050	5260.0253	0.00048
40	120	5260.0082	0.00016	5260.0071	0.00013	5260.0092	0.00017	5260.0068	0.00013
30	120	5260.0064	0.00012	5260.0073	0.00014	5260.0096	0.00018	5260.0096	0.00018
20	120	5259.9960	-0.00008	5259.9955	-0.00009	5259.9938	-0.00012	5259.9952	-0.00009
10	120	5260.0154	0.00029	5260.0159	0.00030	5260.0175	0.00033	5260.0176	0.00033
0	120	5260.0034	0.00006	5260.0057	0.00011	5260.0048	0.00009	5260.0050	0.00010
-10	120	5260.0218	0.00041	5260.0197	0.00037	5260.0227	0.00043	5260.0246	0.00047
-20	120	5259.9828	-0.00033	5259.9813	-0.00036	5259.9808	-0.00037	5259.9836	-0.00031
-30	120	5260.0172	0.00033	5260.0170	0.00032	5260.0205	0.00039	5260.0207	0.00039

Frequency Stability Versus Voltage									
Operating Frequency: 5260MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5259.9965	-0.00007	5259.9954	-0.00009	5259.9945	-0.00010	5259.9956	-0.00008
	120	5259.9960	-0.00008	5259.9955	-0.00009	5259.9938	-0.00012	5259.9952	-0.00009
	102	5259.9967	-0.00006	5259.9959	-0.00008	5259.9947	-0.00010	5259.9962	-0.00007

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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Web Site: www.bureauveritas-adt.com

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

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