FCC Test Report

Report No.:	RF150528E05K
FCC ID:	TLZ-CU300
Test Model:	AW-CU300
Series Model:	AW-CU300A
Received Date:	Mar. 22, 2019
Test Date:	Mar. 27 to 28, 2019
Issued Date:	May 15, 2019
Applicant:	AzureWave Technologies, Inc.
Address:	8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
RF150528E05K	Original release.	May 15, 2019

1 Certificate of Conformity

Product:	IEEE 802.11 b/g/n WLAN Microcontroller Module
Brand:	AzureWave
Test Model:	AW-CU300
Series Model:	AW-CU300A
Sample Status:	ENGINEERING SAMPLE
Applicant:	AzureWave Technologies, Inc.
Test Date:	Mar. 27 to 28, 2019
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247) ANSI C63.10: 2013

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

Prepared by : _____ , **Date:** May 15, 2019

Cindy Hsin / Specialist

Approved by : _____ , **Date:** May 15, 2019

May Chen / Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -2.7dB at 2390.00MHz.
15.247(b)	Conducted power	PASS	Meet the requirement of limit.

Note:
Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

NOTE: 1 This report is prepared for FCC Class II change.

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) (±)
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	4.8 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.0 dB
	6GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	IEEE 802.11 b/g/n WLAN Microcontroller Module
Brand	AzureWave
Test Model	AW-CU300
Series Model	AW-CU300A
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n : up to 72.2Mbps
Operating Frequency	2.412 ~ 2.462GHz
Number of Channel	11
Output Power	195.884mW
Antenna Type	Please see Note
Antenna Connector	Please see Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC Class II change. The difference compared with the Report No.: RF150528E05H design is as the following:
   - Add 2nd sources for model: AW-CU300 (C36 change to 1nH, C35 change to 1nH, L5 change to NC), confirmed RF circuit and performance are no changed.
2. According to the above condition, only Radiated emissions and Conducted power test item need to be performed. And all data are verified to meet the requirements.

3. The antennas provided to the EUT, please refer to the following table:

Antenna No	Brand	Model	Gain (dBi) (Including cable loss)	Antenna Type	Connector Type	Frequency range (GHz to GHz)	Cable Length (mm)
1(Internal)	AzureWave	AW-CU300 ANT	5.12	PCB	NA	2.4~2.4835	NA
2(External)	TAOGLAS	FXP73.07.0100A	3	Monopole	I-PEX	2.4~2.4835	100
3(External)	TAOGLAS	PC11.07.0100A	3	Dipole	I-PEX	2.4~2.4835	100
4(External)	TAOGLAS	FXP74.07.0100A	4	PIFA	I-PEX	2.4~2.4835	100
5(External)	TAOGLAS	GW.17.07.0250E	2.7	Dipole	I-PEX	2.4~2.4835	250
6(External)	TAOGLAS	PC17.07.0070A	0.9	PIFA	I-PEX	2.4~2.4835	70
7(External)	LAIRD	NanoBlue-IP04_MAF94045	2	Monopole	I-PEX	2.4~2.4835	100
8(External)	MAG.LAYERS	EDA_1313_2G4C1-A16	2.39	Dipole	I-PEX	2.4~2.4835	150
9(External)	LAIRD	EBL2400A1-23UFL	2.45	Dipole	I-PEX	2.4~2.4835	230
10(External)	MOLEX	1461530100	3	Dipole	I-PEX	2.4~2.4835	100
11(External)	MOLEX	1461530150	2.8	Dipole	I-PEX	2.4~2.4835	150
12(External)	MOLEX	1461530200	2.6	Dipole	I-PEX	2.4~2.4835	20
13(External)	MOLEX	1461530250	2.4	Dipole	I-PEX	2.4~2.4835	250
14(External)	MOLEX	1461530300	2.2	Dipole	I-PEX	2.4~2.4835	300
15(External)	MOLEX	2042810050	2.2	Dipole	I-PEX	2.4~2.4835	50
16(External)	MOLEX	2042810100	2	Dipole	I-PEX	2.4~2.4835	100
17(External)	MOLEX	2042810150	1.8	Dipole	I-PEX	2.4~2.4835	150
18(External)	MOLEX	2042810200	1.6	Dipole	I-PEX	2.4~2.4835	200
19(External)	MOLEX	2042810250	1.4	Dipole	I-PEX	2.4~2.4835	250
20(External)	MOLEX	2042810300	1.2	Dipole	I-PEX	2.4~2.4835	300
21(External)	YAGEO	ANTX100F113B24003	2.9	PIFA	I-PEX	2.4~2.4835	100
22(External)	YAGEO	ANTX100P113B24003	2.8	PIFA	I-PEX	2.4~2.4835	100
23(External)	LYNWAVE	ALA110-052020	2	Dipole	I-PEX	2.4~2.4835	50
24(External)	LYNWAVE	ALA120-052024	2	Dipole	I-PEX	2.4~2.4835	160
25(External)	LYNWAVE	ALA150-052020	2	Dipole	I-PEX	2.4~2.4835	85
26(External)	LYNWAVE	ALA140-05102J	2	Dipole	I-PEX	2.4~2.4835	40
27(External)	LYNWAVE	ALA120-051020	2	Dipole	I-PEX	2.4~2.4835	50
28(External)	LYNWAVE	ALA120-051022	2	Dipole	I-PEX	2.4~2.4835	100
29(External)	LYNWAVE	ALA140-051020	1.88	Dipole	I-PEX	2.4~2.4835	70
30(External)	LYNWAVE	ALA150-05102B	2	Dipole	I-PEX	2.4~2.4835	100
31(External)	LYNWAVE	ALA150-05102C	2	Dipole	I-PEX	2.4~2.4835	75
32(External)	LYNWAVE	ALA150-05102F	2	Dipole	I-PEX	2.4~2.4835	140
33(External)	LYNWAVE	ALA150-05102J	2	Dipole	I-PEX	2.4~2.4835	100
34(External)	LYNWAVE	ALA140-05102D	2	Dipole	I-PEX	2.4~2.4835	95
35(External)	LYNWAVE	ALA150-051026	2	Dipole	I-PEX	2.4~2.4835	150

Antennas 1~4 were chosen for final test.

4. The EUT has below model names, which are identical to each other in all aspects except for the following:

Brand	Model No.	Remark
AzureWave	AW-CU300	-
AzureWave	AW-CU300A	PCB size is extended added flash component

From the above models, model: AW-CU300 was selected as representative model for the test and its data was recorded in this report.

5. The EUT incorporates a SISO function.

MODULATION MODE	TX & RX CONFIGURATION	
802.11b	1TX	1RX
802.11g	1TX	1RX
802.11n (HT20)	1TX	1RX

6. 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

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE≥1G	RE<1G	APCM	
1	√	√	√	With antenna 1 (PCB)
2	√	√	-	With antenna 2 (Monopole)
3	√	√	-	With antenna 3 (Dipole)
4	√	√	-	With antenna 4 (PIFA)

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

APCM: Antenna Port Conducted Measurement

NOTE 1: "-"means no effect.

2: The Antenna placement had been investigated on the positioned of each 3 axis.
Following worst case were found as listed below.

Antenna	Worst position
PCB	Y-plane
Monopole	Y-plane
PIFA	X-plane (Below 1GHz) Z-plane (Above 1GHz)

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	BPSK	6

Antenna Port Conducted Measurement:

☒ 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Nelson Teng
RE<1G	21deg. C, 67%RH	120Vac, 60Hz	Robert Cheng
APCM	25deg. C, 60%RH	120Vac, 60Hz	Nelson Teng

3.3 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.

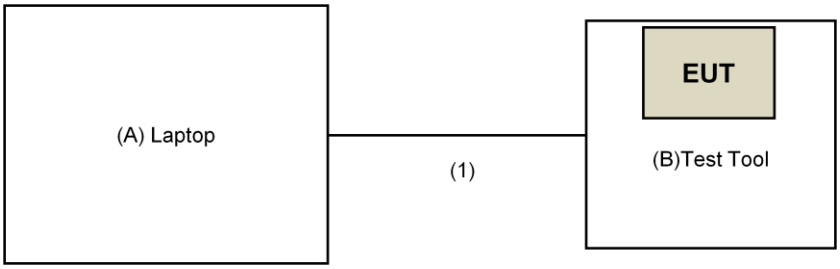
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	HP	TPN-Q186	5CD8212YYK	FCC DoC	Provided by Lab
B.	Test Tool	AzureWave	NA	NA	NA	Supplied by client

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1.8	Yes	0	Provided by Lab

3.3.1 Configuration of System under Test



3.4 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 C (15.247)
KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10-2013

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

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. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ESR7 R&S	ESR7	102026	Apr. 18, 2018	Apr. 17, 2019
Spectrum Analyzer Keysight	N9030B	MY57141948	June 01, 2018	May 31, 2019
Pre-Amplifier EMCI	EMC001340	980142	Jan. 25, 2019	Jan. 24, 2020
Loop Antenna(*) Electro-Metrics	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
RF Cable	NA	LOOPCAB-001	Jan. 14, 2019	Jan. 13, 2020
RF Cable	NA	LOOPCAB-002	Jan. 14, 2019	Jan. 13, 2020
Pre-Amplifier EMCI	EMC330N	980538	May 07, 2018	May 06, 2019
Trilog Broadband Antenna SCHWARZBECK	VULB9168	AMP-ZFL-05	May 07, 2018	May 06, 2019
RF Cable	8D	966-5-1	May 07, 2018	May 06, 2019
RF Cable	8D	966-5-2	May 07, 2018	May 06, 2019
RF Cable	8D	966-5-3	May 07, 2018	May 06, 2019
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	Jan. 28, 2019	Jan. 27, 2020
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-1819	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier EMCI	EMC12630SE	980509	May 07, 2018	May 06, 2019
RF Cable EMCI	EMC104-SM-SM-1500	180503	May 07, 2018	May 06, 2019
RF Cable EMCI	EMC104-SM-SM-2000	180501	May 07, 2018	May 06, 2019
RF Cable EMCI	EMC104-SM-SM-6000	180505	May 07, 2018	May 06, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 25, 2018	Nov. 24, 2019
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 5.
4. Loop antenna was used for all emissions below 30 MHz.
5. Tested Date: Mar. 27 to 28, 2019

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. Parallel, perpendicular, and ground-parallel orientations 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 detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

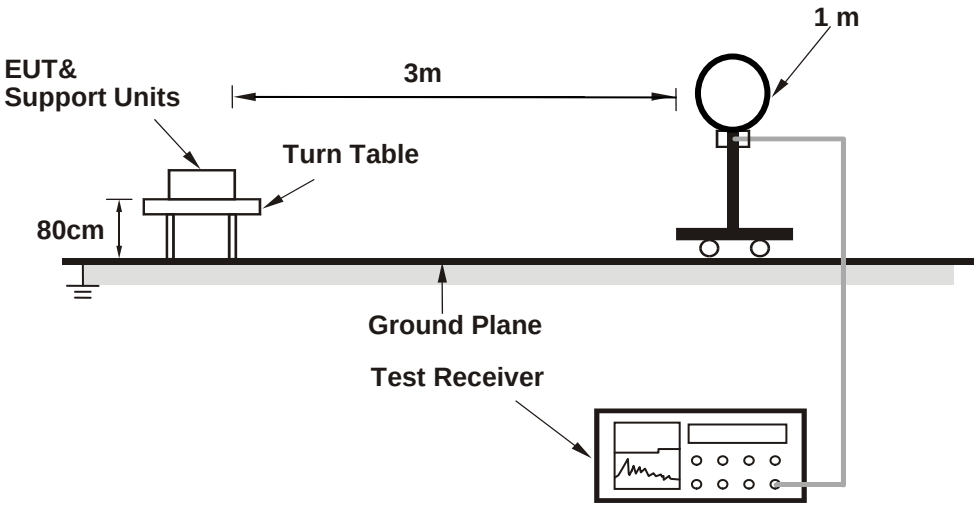
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

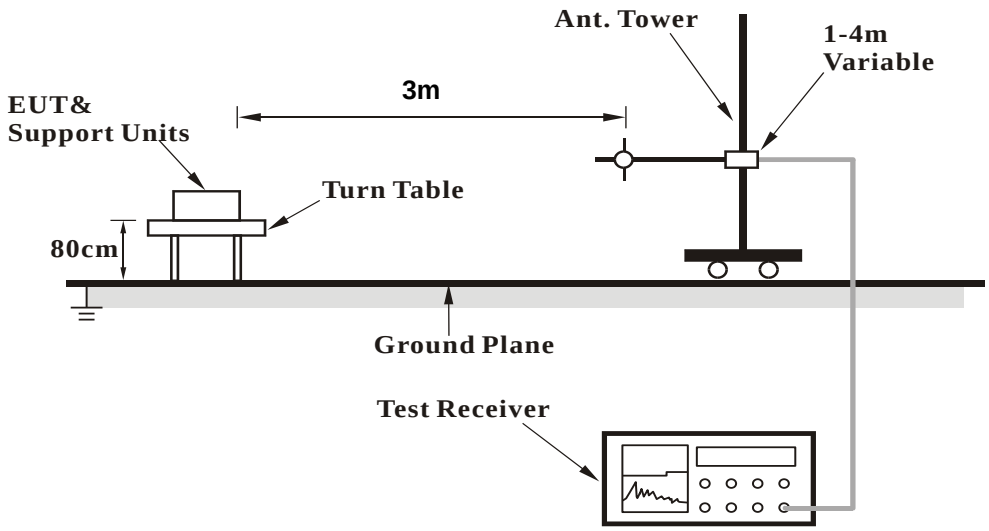
No deviation.

4.1.5 Test Setup

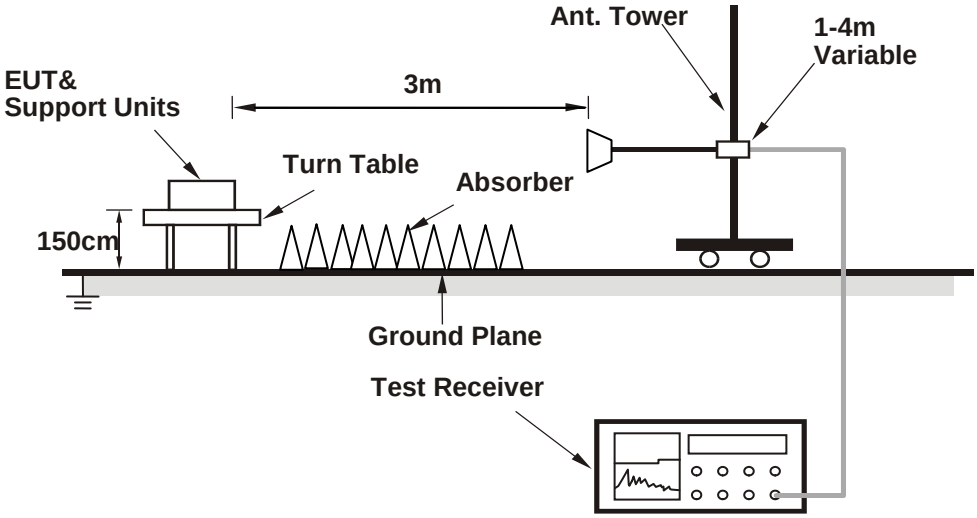
For Radiated emission below 30MHz



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

1. Connect the EUT with the support unit A (Laptop) which is placed on a testing table.
2. The communication partner run test program “DutApiWiFi8845BrdigeUart.exe” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.1.7 Test Results (Mode 1)

Above 1GHz Data:

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	55.4 PK	74.0	-18.6	1.33 H	295	58.6	-3.2
2	2390.00	44.0 AV	54.0	-10.0	1.33 H	295	47.2	-3.2
3	*2412.00	99.9 PK			1.33 H	295	103.1	-3.2
4	*2412.00	97.7 AV			1.33 H	295	100.9	-3.2
5	4824.00	44.2 PK	74.0	-29.8	1.03 H	15	43.4	0.8
6	4824.00	39.5 AV	54.0	-14.5	1.03 H	15	38.7	0.8
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	2390.00	57.7 PK	74.0	-16.3	3.09 V	258	60.9	-3.2
2	2390.00	43.6 AV	54.0	-10.4	3.09 V	258	46.8	-3.2
3	*2412.00	101.6 PK			3.09 V	258	104.8	-3.2
4	*2412.00	99.6 AV			3.09 V	258	102.8	-3.2
5	4824.00	42.3 PK	74.0	-31.7	1.04 V	243	41.5	0.8
6	4824.00	34.9 AV	54.0	-19.1	1.04 V	243	34.1	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	100.0 PK			1.33 H	283	103.0	-3.0
2	*2437.00	97.6 AV			1.33 H	283	100.6	-3.0
3	4874.00	44.9 PK	74.0	-29.1	2.19 H	275	44.2	0.7
4	4874.00	40.9 AV	54.0	-13.1	2.19 H	275	40.2	0.7
5	7311.00	44.0 PK	74.0	-30.0	2.02 H	55	37.3	6.7
6	7311.00	33.1 AV	54.0	-20.9	2.02 H	55	26.4	6.7
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	*2437.00	101.5 PK			3.10 V	262	104.5	-3.0
2	*2437.00	99.7 AV			3.10 V	262	102.7	-3.0
3	4874.00	41.4 PK	74.0	-32.6	1.05 V	257	40.7	0.7
4	4874.00	34.4 AV	54.0	-19.6	1.05 V	257	33.7	0.7
5	7311.00	44.5 PK	74.0	-29.5	1.49 V	61	37.8	6.7
6	7311.00	33.5 AV	54.0	-20.5	1.49 V	61	26.8	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	100.2 PK			1.33 H	281	103.3	-3.1
2	*2462.00	97.8 AV			1.33 H	281	100.9	-3.1
3	2483.50	55.8 PK	74.0	-18.2	1.33 H	281	58.9	-3.1
4	2483.50	44.1 AV	54.0	-9.9	1.33 H	281	47.2	-3.1
5	4924.00	44.7 PK	74.0	-29.3	2.21 H	264	43.9	0.8
6	4924.00	40.5 AV	54.0	-13.5	2.21 H	264	39.7	0.8
7	7386.00	44.4 PK	74.0	-29.6	1.98 H	45	37.4	7.0
8	7386.00	33.2 AV	54.0	-20.8	1.98 H	45	26.2	7.0
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	*2462.00	102.1 PK			3.08 V	273	105.2	-3.1
2	*2462.00	100.1 AV			3.08 V	273	103.2	-3.1
3	2483.50	58.2 PK	74.0	-15.8	3.08 V	273	61.3	-3.1
4	2483.50	44.1 AV	54.0	-9.9	3.08 V	273	47.2	-3.1
5	4924.00	42.1 PK	74.0	-31.9	1.05 V	258	41.3	0.8
6	4924.00	34.8 AV	54.0	-19.2	1.05 V	258	34.0	0.8
7	7386.00	44.8 PK	74.0	-29.2	1.55 V	62	37.8	7.0
8	7386.00	33.5 AV	54.0	-20.5	1.55 V	62	26.5	7.0

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	56.1 PK	74.0	-17.9	1.34 H	270	59.3	-3.2
2	2390.00	44.2 AV	54.0	-9.8	1.34 H	270	47.4	-3.2
3	*2412.00	95.7 PK			1.34 H	270	98.9	-3.2
4	*2412.00	88.7 AV			1.34 H	270	91.9	-3.2
5	4824.00	42.2 PK	74.0	-31.8	2.13 H	252	41.4	0.8
6	4824.00	38.0 AV	54.0	-16.0	2.13 H	252	37.2	0.8
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	2390.00	56.3 PK	74.0	-17.7	3.50 V	315	59.5	-3.2
2	2390.00	44.8 AV	54.0	-9.2	3.50 V	315	48.0	-3.2
3	*2412.00	97.3 PK			3.50 V	315	100.5	-3.2
4	*2412.00	90.1 AV			3.50 V	315	93.3	-3.2
5	4824.00	37.8 PK	74.0	-36.2	1.05 V	263	37.0	0.8
6	4824.00	30.8 AV	54.0	-23.2	1.05 V	263	30.0	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	97.7 PK			1.39 H	255	100.7	-3.0
2	*2437.00	90.6 AV			1.39 H	255	93.6	-3.0
3	4874.00	42.1 PK	74.0	-31.9	2.14 H	261	41.4	0.7
4	4874.00	37.8 AV	54.0	-16.2	2.14 H	261	37.1	0.7
5	7311.00	40.5 PK	74.0	-33.5	2.01 H	66	33.8	6.7
6	7311.00	29.8 AV	54.0	-24.2	2.01 H	66	23.1	6.7
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	*2437.00	99.9 PK			3.53 V	267	102.9	-3.0
2	*2437.00	92.5 AV			3.53 V	267	95.5	-3.0
3	4874.00	36.7 PK	74.0	-37.3	1.01 V	258	36.0	0.7
4	4874.00	29.4 AV	54.0	-24.6	1.01 V	258	28.7	0.7
5	7311.00	42.6 PK	74.0	-31.4	1.47 V	60	35.9	6.7
6	7311.00	31.4 AV	54.0	-22.6	1.47 V	60	24.7	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	95.6 PK			1.39 H	274	98.7	-3.1
2	*2462.00	88.8 AV			1.39 H	274	91.9	-3.1
3	2483.50	56.4 PK	74.0	-17.6	1.39 H	274	59.5	-3.1
4	2483.50	44.3 AV	54.0	-9.7	1.39 H	274	47.4	-3.1
5	4924.00	42.4 PK	74.0	-31.6	2.09 H	256	41.6	0.8
6	4924.00	37.9 AV	54.0	-16.1	2.09 H	256	37.1	0.8
7	7386.00	40.0 PK	74.0	-34.0	1.97 H	59	33.0	7.0
8	7386.00	29.4 AV	54.0	-24.6	1.97 H	59	22.4	7.0
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	*2462.00	97.8 PK			3.43 V	271	100.9	-3.1
2	*2462.00	90.6 AV			3.43 V	271	93.7	-3.1
3	2483.50	59.7 PK	74.0	-14.3	3.43 V	271	62.8	-3.1
4	2483.50	46.0 AV	54.0	-8.0	3.43 V	271	49.1	-3.1
5	4924.00	36.9 PK	74.0	-37.1	1.02 V	258	36.1	0.8
6	4924.00	29.7 AV	54.0	-24.3	1.02 V	258	28.9	0.8
7	7386.00	40.9 PK	74.0	-33.1	1.53 V	55	33.9	7.0
8	7386.00	29.8 AV	54.0	-24.2	1.53 V	55	22.8	7.0

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	55.8 PK	74.0	-18.2	1.39 H	305	59.0	-3.2
2	2390.00	44.3 AV	54.0	-9.7	1.39 H	305	47.5	-3.2
3	*2412.00	95.7 PK			1.39 H	305	98.9	-3.2
4	*2412.00	88.2 AV			1.39 H	305	91.4	-3.2
5	4824.00	42.0 PK	74.0	-32.0	2.12 H	266	41.2	0.8
6	4824.00	37.7 AV	54.0	-16.3	2.12 H	266	36.9	0.8
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	2390.00	55.7 PK	74.0	-18.3	3.49 V	316	58.9	-3.2
2	2390.00	44.4 AV	54.0	-9.6	3.49 V	316	47.6	-3.2
3	*2412.00	97.3 PK			3.49 V	316	100.5	-3.2
4	*2412.00	90.0 AV			3.49 V	316	93.2	-3.2
5	4824.00	36.7 PK	74.0	-37.3	1.02 V	264	35.9	0.8
6	4824.00	29.5 AV	54.0	-24.5	1.02 V	264	28.7	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	97.9 PK			1.35 H	255	100.9	-3.0
2	*2437.00	90.7 AV			1.35 H	255	93.7	-3.0
3	4874.00	42.0 PK	74.0	-32.0	2.11 H	263	41.3	0.7
4	4874.00	38.0 AV	54.0	-16.0	2.11 H	263	37.3	0.7
5	7311.00	40.5 PK	74.0	-33.5	1.96 H	74	33.8	6.7
6	7311.00	29.7 AV	54.0	-24.3	1.96 H	74	23.0	6.7
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	*2437.00	100.7 PK			3.52 V	263	103.7	-3.0
2	*2437.00	93.0 AV			3.52 V	263	96.0	-3.0
3	4874.00	36.9 PK	74.0	-37.1	1.01 V	259	36.2	0.7
4	4874.00	29.6 AV	54.0	-24.4	1.01 V	259	28.9	0.7
5	7311.00	41.0 PK	74.0	-33.0	1.48 V	64	34.3	6.7
6	7311.00	29.7 AV	54.0	-24.3	1.48 V	64	23.0	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	95.7 PK			1.36 H	296	98.8	-3.1
2	*2462.00	88.2 AV			1.36 H	296	91.3	-3.1
3	2483.50	55.5 PK	74.0	-18.5	1.36 H	296	58.6	-3.1
4	2483.50	43.9 AV	54.0	-10.1	1.36 H	296	47.0	-3.1
5	4924.00	42.5 PK	74.0	-31.5	2.06 H	249	41.7	0.8
6	4924.00	38.3 AV	54.0	-15.7	2.06 H	249	37.5	0.8
7	7386.00	40.3 PK	74.0	-33.7	1.95 H	68	33.3	7.0
8	7386.00	29.7 AV	54.0	-24.3	1.95 H	68	22.7	7.0
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	*2462.00	97.9 PK			3.47 V	264	101.0	-3.1
2	*2462.00	90.6 AV			3.47 V	264	93.7	-3.1
3	2483.50	59.8 PK	74.0	-14.2	3.47 V	264	62.9	-3.1
4	2483.50	45.9 AV	54.0	-8.1	3.47 V	264	49.0	-3.1
5	4924.00	37.4 PK	74.0	-36.6	1.00 V	246	36.6	0.8
6	4924.00	30.1 AV	54.0	-23.9	1.00 V	246	29.3	0.8
7	7386.00	41.0 PK	74.0	-33.0	1.47 V	55	34.0	7.0
8	7386.00	29.6 AV	54.0	-24.4	1.47 V	55	22.6	7.0

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

Below 1GHz Data:

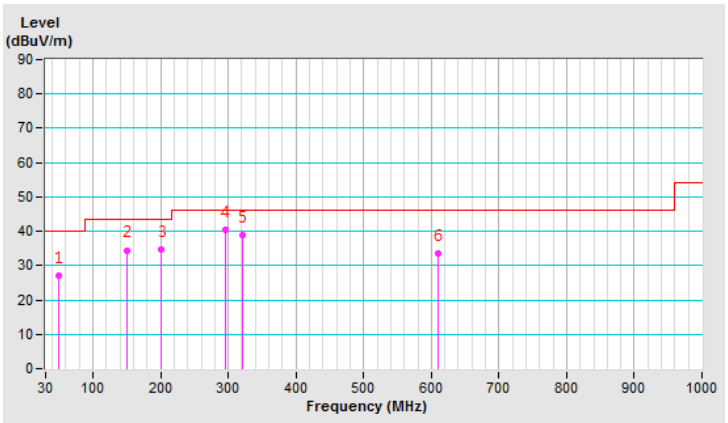
802.11g

CHANNEL	TX Channel 6	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	48.99	27.0 QP	40.0	-13.0	1.00 H	129	13.1	13.9
2	149.92	34.5 QP	43.5	-9.0	1.00 H	254	20.3	14.2
3	201.69	34.8 QP	43.5	-8.7	1.00 H	74	23.5	11.3
4	296.09	40.3 QP	46.0	-5.7	1.00 H	89	25.8	14.5
5	321.19	39.0 QP	46.0	-7.0	1.00 H	326	23.8	15.2
6	609.61	33.5 QP	46.0	-12.5	1.00 H	78	11.9	21.6

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. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

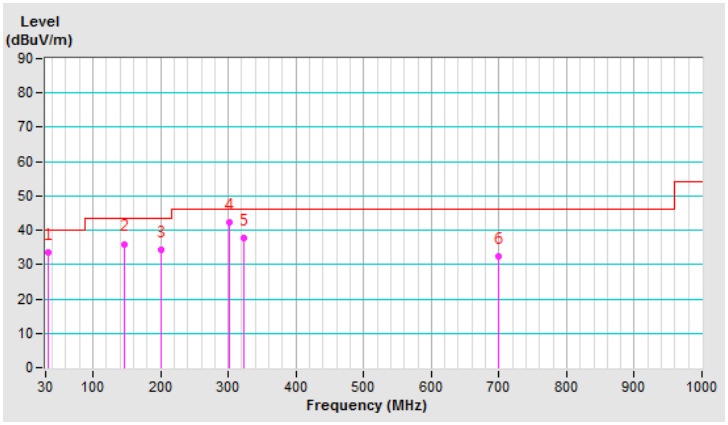


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.96	33.5 QP	40.0	-6.5	1.00 V	42	20.8	12.7
2	147.06	36.0 QP	43.5	-7.5	1.00 V	180	21.8	14.2
3	200.14	34.4 QP	43.5	-9.1	1.00 V	360	23.1	11.3
4	302.52	42.4 QP	46.0	-3.6	1.00 V	148	27.8	14.6
5	322.94	37.7 QP	46.0	-8.3	1.00 V	154	22.5	15.2
6	698.47	32.4 QP	46.0	-13.6	1.00 V	142	9.8	22.6

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. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.8 Test Results (Mode 2)

Above 1GHz Data:

802.11b

CHANNEL	TX Channel 1	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	61.8 PK	74.0	-12.2	1.52 H	216	65.0	-3.2
2	2390.00	48.4 AV	54.0	-5.6	1.52 H	216	51.6	-3.2
3	*2412.00	105.1 PK			1.52 H	216	108.3	-3.2
4	*2412.00	102.8 AV			1.52 H	216	106.0	-3.2
5	4824.00	49.8 PK	74.0	-24.2	1.58 H	3	49.0	0.8
6	4824.00	42.9 AV	54.0	-11.1	1.58 H	3	42.1	0.8
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	2390.00	56.1 PK	74.0	-17.9	1.07 V	186	59.3	-3.2
2	2390.00	40.9 AV	54.0	-13.1	1.07 V	186	44.1	-3.2
3	*2412.00	101.1 PK			1.07 V	186	104.3	-3.2
4	*2412.00	97.8 AV			1.07 V	186	101.0	-3.2
5	4824.00	51.2 PK	74.0	-22.8	1.39 V	137	50.4	0.8
6	4824.00	45.2 AV	54.0	-8.8	1.39 V	137	44.4	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	106.1 PK			1.46 H	222	109.1	-3.0
2	*2437.00	102.9 AV			1.46 H	222	105.9	-3.0
3	4874.00	50.0 PK	74.0	-24.0	1.60 H	24	49.3	0.7
4	4874.00	43.0 AV	54.0	-11.0	1.60 H	24	42.3	0.7
5	7311.00	53.7 PK	74.0	-20.3	1.59 H	305	47.0	6.7
6	7311.00	47.3 AV	54.0	-6.7	1.59 H	305	40.6	6.7
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	*2437.00	100.9 PK			1.04 V	186	103.9	-3.0
2	*2437.00	97.7 AV			1.04 V	186	100.7	-3.0
3	4874.00	50.9 PK	74.0	-23.1	1.52 V	120	50.2	0.7
4	4874.00	45.2 AV	54.0	-8.8	1.52 V	120	44.5	0.7
5	7311.00	51.4 PK	74.0	-22.6	1.02 V	116	44.7	6.7
6	7311.00	40.9 AV	54.0	-13.1	1.02 V	116	34.2	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	105.1 PK			1.62 H	206	108.2	-3.1
2	*2462.00	102.9 AV			1.62 H	206	106.0	-3.1
3	2483.50	64.3 PK	74.0	-9.7	1.62 H	206	67.4	-3.1
4	2483.50	47.0 AV	54.0	-7.0	1.62 H	206	50.1	-3.1
5	4924.00	49.9 PK	74.0	-24.1	1.58 H	36	49.1	0.8
6	4924.00	42.9 AV	54.0	-11.1	1.58 H	36	42.1	0.8
7	7386.00	53.2 PK	74.0	-20.8	1.56 H	306	46.2	7.0
8	7386.00	47.2 AV	54.0	-6.8	1.56 H	306	40.2	7.0
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	*2462.00	101.6 PK			1.00 V	187	104.7	-3.1
2	*2462.00	97.9 AV			1.00 V	187	101.0	-3.1
3	2483.50	57.0 PK	74.0	-17.0	1.00 V	187	60.1	-3.1
4	2483.50	41.7 AV	54.0	-12.3	1.00 V	187	44.8	-3.1
5	4924.00	50.5 PK	74.0	-23.5	1.37 V	143	49.7	0.8
6	4924.00	45.1 AV	54.0	-8.9	1.37 V	143	44.3	0.8
7	7386.00	50.5 PK	74.0	-23.5	1.00 V	127	43.5	7.0
8	7386.00	39.9 AV	54.0	-14.1	1.00 V	127	32.9	7.0

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	71.1 PK	74.0	-2.9	1.60 H	159	74.3	-3.2
2	**2390.00**	**51.3 AV**	**54.0**	**-2.7**	**1.60 H**	**159**	**54.5**	**-3.2**
3	*2412.00	103.4 PK			1.60 H	159	106.6	-3.2
4	*2412.00	93.4 AV			1.60 H	159	96.6	-3.2
5	4824.00	46.7 PK	74.0	-27.3	1.03 H	189	45.9	0.8
6	4824.00	33.8 AV	54.0	-20.2	1.03 H	189	33.0	0.8
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	2390.00	67.3 PK	74.0	-6.7	1.11 V	182	70.5	-3.2
2	2390.00	45.5 AV	54.0	-8.5	1.11 V	182	48.7	-3.2
3	*2412.00	98.3 PK			1.11 V	182	101.5	-3.2
4	*2412.00	88.3 AV			1.11 V	182	91.5	-3.2
5	4824.00	47.2 PK	74.0	-26.8	1.20 V	76	46.4	0.8
6	4824.00	34.0 AV	54.0	-20.0	1.20 V	76	33.2	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	107.0 PK			1.45 H	180	110.0	-3.0
2	*2437.00	95.3 AV			1.45 H	180	98.3	-3.0
3	4874.00	46.4 PK	74.0	-27.6	1.00 H	227	45.7	0.7
4	4874.00	33.8 AV	54.0	-20.2	1.00 H	227	33.1	0.7
5	7311.00	51.9 PK	74.0	-22.1	1.19 H	110	45.2	6.7
6	7311.00	38.1 AV	54.0	-15.9	1.19 H	110	31.4	6.7
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	*2437.00	100.6 PK			1.17 V	180	103.6	-3.0
2	*2437.00	90.1 AV			1.17 V	180	93.1	-3.0
3	4874.00	47.5 PK	74.0	-26.5	1.30 V	104	46.8	0.7
4	4874.00	34.0 AV	54.0	-20.0	1.30 V	104	33.3	0.7
5	7311.00	51.7 PK	74.0	-22.3	1.57 V	284	45.0	6.7
6	7311.00	37.6 AV	54.0	-16.4	1.57 V	284	30.9	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	104.5 PK			1.67 H	166	107.6	-3.1
2	*2462.00	93.1 AV			1.67 H	166	96.2	-3.1
3	2483.50	68.2 PK	74.0	-5.8	1.67 H	166	71.3	-3.1
4	2483.50	50.1 AV	54.0	-3.9	1.67 H	166	53.2	-3.1
5	4924.00	48.0 PK	74.0	-26.0	1.03 H	211	47.2	0.8
6	4924.00	34.6 AV	54.0	-19.4	1.03 H	211	33.8	0.8
7	7386.00	52.0 PK	74.0	-22.0	1.16 H	107	45.0	7.0
8	7386.00	38.5 AV	54.0	-15.5	1.16 H	107	31.5	7.0
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	*2462.00	98.1 PK			1.02 V	171	101.2	-3.1
2	*2462.00	87.4 AV			1.02 V	171	90.5	-3.1
3	2483.50	67.4 PK	74.0	-6.6	1.02 V	171	70.5	-3.1
4	2483.50	45.3 AV	54.0	-8.7	1.02 V	171	48.4	-3.1
5	4924.00	47.2 PK	74.0	-26.8	1.17 V	64	46.4	0.8
6	4924.00	34.1 AV	54.0	-19.9	1.17 V	64	33.3	0.8
7	7386.00	49.9 PK	74.0	-24.1	1.69 V	297	42.9	7.0
8	7386.00	36.4 AV	54.0	-17.6	1.69 V	297	29.4	7.0

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	71.0 PK	74.0	-3.0	1.56 H	168	74.2	-3.2
2	2390.00	49.9 AV	54.0	-4.1	1.56 H	168	53.1	-3.2
3	*2412.00	102.3 PK			1.56 H	168	105.5	-3.2
4	*2412.00	91.3 AV			1.56 H	168	94.5	-3.2
5	4824.00	46.6 PK	74.0	-27.4	1.01 H	216	45.8	0.8
6	4824.00	34.0 AV	54.0	-20.0	1.01 H	216	33.2	0.8
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	2390.00	66.4 PK	74.0	-7.6	1.11 V	191	69.6	-3.2
2	2390.00	44.6 AV	54.0	-9.4	1.11 V	191	47.8	-3.2
3	*2412.00	97.9 PK			1.11 V	191	101.1	-3.2
4	*2412.00	86.7 AV			1.11 V	191	89.9	-3.2
5	4824.00	47.9 PK	74.0	-26.1	1.33 V	110	47.1	0.8
6	4824.00	34.6 AV	54.0	-19.4	1.33 V	110	33.8	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	104.5 PK			1.65 H	150	107.5	-3.0
2	*2437.00	94.1 AV			1.65 H	150	97.1	-3.0
3	4874.00	45.6 PK	74.0	-28.4	1.07 H	208	44.9	0.7
4	4874.00	32.8 AV	54.0	-21.2	1.07 H	208	32.1	0.7
5	7311.00	52.4 PK	74.0	-21.6	1.21 H	111	45.7	6.7
6	7311.00	38.4 AV	54.0	-15.6	1.21 H	111	31.7	6.7
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	*2437.00	99.2 PK			1.08 V	193	102.2	-3.0
2	*2437.00	88.6 AV			1.08 V	193	91.6	-3.0
3	4874.00	46.6 PK	74.0	-27.4	1.26 V	103	45.9	0.7
4	4874.00	33.6 AV	54.0	-20.4	1.26 V	103	32.9	0.7
5	7311.00	51.2 PK	74.0	-22.8	1.63 V	294	44.5	6.7
6	7311.00	37.6 AV	54.0	-16.4	1.63 V	294	30.9	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	102.0 PK			1.65 H	154	105.1	-3.1
2	*2462.00	91.4 AV			1.65 H	154	94.5	-3.1
3	2483.50	70.4 PK	74.0	-3.6	1.65 H	154	73.5	-3.1
4	2483.50	51.2 AV	54.0	-2.8	1.65 H	154	54.3	-3.1
5	4924.00	46.9 PK	74.0	-27.1	1.04 H	192	46.1	0.8
6	4924.00	33.9 AV	54.0	-20.1	1.04 H	192	33.1	0.8
7	7386.00	51.9 PK	74.0	-22.1	1.21 H	121	44.9	7.0
8	7386.00	38.6 AV	54.0	-15.4	1.21 H	121	31.6	7.0
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	*2462.00	97.6 PK			1.07 V	181	100.7	-3.1
2	*2462.00	86.3 AV			1.07 V	181	89.4	-3.1
3	2483.50	67.8 PK	74.0	-6.2	1.07 V	181	70.9	-3.1
4	2483.50	46.0 AV	54.0	-8.0	1.07 V	181	49.1	-3.1
5	4924.00	45.8 PK	74.0	-28.2	1.34 V	79	45.0	0.8
6	4924.00	33.0 AV	54.0	-21.0	1.34 V	79	32.2	0.8
7	7386.00	50.7 PK	74.0	-23.3	1.63 V	310	43.7	7.0
8	7386.00	37.5 AV	54.0	-16.5	1.63 V	310	30.5	7.0

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

Below 1GHz Data:

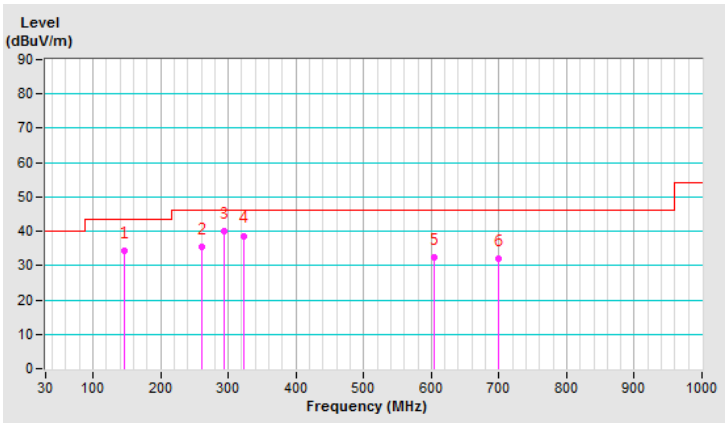
802.11g

CHANNEL	TX Channel 6	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	147.04	34.4 QP	43.5	-9.1	1.00 H	267	52.2	-17.8
2	261.30	35.6 QP	46.0	-10.4	1.00 H	80	54.3	-18.7
3	293.68	39.9 QP	46.0	-6.1	1.00 H	71	57.5	-17.6
4	323.39	38.7 QP	46.0	-7.3	1.00 H	205	55.4	-16.7
5	604.85	32.5 QP	46.0	-13.5	1.00 H	88	42.7	-10.2
6	700.14	31.9 QP	46.0	-14.1	1.00 H	107	40.9	-9.0

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. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

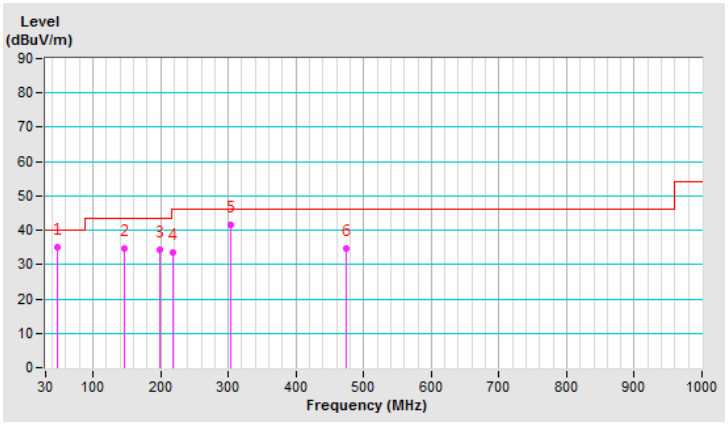


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	48.40	34.9 QP	40.0	-5.1	1.00 V	27	52.9	-18.0
2	146.18	34.6 QP	43.5	-8.9	1.00 V	186	52.5	-17.9
3	199.07	34.4 QP	43.5	-9.1	1.00 V	357	55.1	-20.7
4	217.36	33.4 QP	46.0	-12.6	1.00 V	186	54.0	-20.6
5	304.39	41.4 QP	46.0	-4.6	1.00 V	181	58.7	-17.3
6	475.15	34.6 QP	46.0	-11.4	1.00 V	115	47.7	-13.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.9 Test Results (Mode 3)

Above 1GHz Data:

802.11b

CHANNEL	TX Channel 1	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	60.6 PK	74.0	-13.4	1.56 H	86	63.8	-3.2
2	2390.00	44.4 AV	54.0	-9.6	1.56 H	86	47.6	-3.2
3	*2412.00	100.2 PK			1.56 H	86	103.4	-3.2
4	*2412.00	97.1 AV			1.56 H	86	100.3	-3.2
5	4824.00	41.4 PK	74.0	-32.6	1.68 H	27	40.6	0.8
6	4824.00	36.3 AV	54.0	-17.7	1.68 H	27	35.5	0.8
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	2390.00	63.7 PK	74.0	-10.3	2.47 V	109	66.9	-3.2
2	2390.00	47.7 AV	54.0	-6.3	2.47 V	109	50.9	-3.2
3	*2412.00	105.2 PK			2.47 V	109	108.4	-3.2
4	*2412.00	102.5 AV			2.47 V	109	105.7	-3.2
5	4824.00	46.2 PK	74.0	-27.8	1.83 V	253	45.4	0.8
6	4824.00	42.9 AV	54.0	-11.1	1.83 V	253	42.1	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	100.3 PK			1.89 H	123	103.3	-3.0
2	*2437.00	97.6 AV			1.89 H	123	100.6	-3.0
3	4874.00	41.2 PK	74.0	-32.8	1.75 H	48	40.5	0.7
4	4874.00	36.4 AV	54.0	-17.6	1.75 H	48	35.7	0.7
5	7311.00	51.9 PK	74.0	-22.1	1.21 H	87	45.2	6.7
6	7311.00	38.2 AV	54.0	-15.8	1.21 H	87	31.5	6.7
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	*2437.00	106.1 PK			1.79 V	237	109.1	-3.0
2	*2437.00	103.1 AV			1.79 V	237	106.1	-3.0
3	4874.00	46.1 PK	74.0	-27.9	1.82 V	272	45.4	0.7
4	4874.00	42.5 AV	54.0	-11.5	1.82 V	272	41.8	0.7
5	7311.00	45.2 PK	74.0	-28.8	1.80 V	73	38.5	6.7
6	7311.00	38.6 AV	54.0	-15.4	1.80 V	73	31.9	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	100.7 PK			1.89 H	135	103.8	-3.1
2	*2462.00	97.9 AV			1.89 H	135	101.0	-3.1
3	2483.50	59.3 PK	74.0	-14.7	1.89 H	135	62.4	-3.1
4	2483.50	43.7 AV	54.0	-10.3	1.89 H	135	46.8	-3.1
5	4924.00	42.2 PK	74.0	-31.8	3.72 H	157	41.4	0.8
6	4924.00	35.3 AV	54.0	-18.7	3.72 H	157	34.5	0.8
7	7386.00	44.4 PK	74.0	-29.6	2.27 H	86	37.4	7.0
8	7386.00	34.3 AV	54.0	-19.7	2.27 H	86	27.3	7.0
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	*2462.00	105.0 PK			2.56 V	137	108.1	-3.1
2	*2462.00	102.2 AV			2.56 V	137	105.3	-3.1
3	2483.50	63.4 PK	74.0	-10.6	2.56 V	137	66.5	-3.1
4	2483.50	47.7 AV	54.0	-6.3	2.56 V	137	50.8	-3.1
5	4924.00	45.9 PK	74.0	-28.1	1.81 V	266	45.1	0.8
6	4924.00	42.6 AV	54.0	-11.4	1.81 V	266	41.8	0.8
7	7386.00	45.7 PK	74.0	-28.3	1.81 V	84	38.7	7.0
8	7386.00	38.9 AV	54.0	-15.1	1.81 V	84	31.9	7.0

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	60.5 PK	74.0	-13.5	1.96 H	146	63.7	-3.2
2	2390.00	44.7 AV	54.0	-9.3	1.96 H	146	47.9	-3.2
3	*2412.00	99.6 PK			1.96 H	146	102.8	-3.2
4	*2412.00	88.6 AV			1.96 H	146	91.8	-3.2
5	4824.00	46.2 PK	74.0	-27.8	1.60 H	210	45.4	0.8
6	4824.00	33.3 AV	54.0	-20.7	1.60 H	210	32.5	0.8
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	2390.00	67.6 PK	74.0	-6.4	2.47 V	104	70.8	-3.2
2	2390.00	47.9 AV	54.0	-6.1	2.47 V	104	51.1	-3.2
3	*2412.00	104.3 PK			2.47 V	104	107.5	-3.2
4	*2412.00	93.0 AV			2.47 V	104	96.2	-3.2
5	4824.00	47.1 PK	74.0	-26.9	1.23 V	89	46.3	0.8
6	4824.00	34.0 AV	54.0	-20.0	1.23 V	89	33.2	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	100.7 PK			1.96 H	137	103.7	-3.0
2	*2437.00	89.9 AV			1.96 H	137	92.9	-3.0
3	4874.00	46.9 PK	74.0	-27.1	1.66 H	225	46.2	0.7
4	4874.00	34.0 AV	54.0	-20.0	1.66 H	225	33.3	0.7
5	7311.00	51.2 PK	74.0	-22.8	1.19 H	89	44.5	6.7
6	7311.00	37.9 AV	54.0	-16.1	1.19 H	89	31.2	6.7
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	*2437.00	105.4 PK			2.05 V	206	108.4	-3.0
2	*2437.00	93.7 AV			2.05 V	206	96.7	-3.0
3	4874.00	46.7 PK	74.0	-27.3	1.21 V	101	46.0	0.7
4	4874.00	33.9 AV	54.0	-20.1	1.21 V	101	33.2	0.7
5	7311.00	50.9 PK	74.0	-23.1	1.60 V	293	44.2	6.7
6	7311.00	37.3 AV	54.0	-16.7	1.60 V	293	30.6	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	100.0 PK			2.01 H	159	103.1	-3.1
2	*2462.00	88.8 AV			2.01 H	159	91.9	-3.1
3	2483.50	60.4 PK	74.0	-13.6	2.01 H	159	63.5	-3.1
4	2483.50	44.4 AV	54.0	-9.6	2.01 H	159	47.5	-3.1
5	4924.00	47.3 PK	74.0	-26.7	1.67 H	212	46.5	0.8
6	4924.00	33.8 AV	54.0	-20.2	1.67 H	212	33.0	0.8
7	7386.00	51.6 PK	74.0	-22.4	1.30 H	98	44.6	7.0
8	7386.00	37.8 AV	54.0	-16.2	1.30 H	98	30.8	7.0
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	*2462.00	104.2 PK			2.52 V	91	107.3	-3.1
2	*2462.00	92.7 AV			2.52 V	91	95.8	-3.1
3	2483.50	67.8 PK	74.0	-6.2	2.52 V	91	70.9	-3.1
4	2483.50	48.1 AV	54.0	-5.9	2.52 V	91	51.2	-3.1
5	4924.00	46.6 PK	74.0	-27.4	1.16 V	92	45.8	0.8
6	4924.00	33.7 AV	54.0	-20.3	1.16 V	92	32.9	0.8
7	7386.00	50.7 PK	74.0	-23.3	1.67 V	319	43.7	7.0
8	7386.00	37.5 AV	54.0	-16.5	1.67 V	319	30.5	7.0

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	59.7 PK	74.0	-14.3	1.93 H	132	62.9	-3.2
2	2390.00	43.6 AV	54.0	-10.4	1.93 H	132	46.8	-3.2
3	*2412.00	98.1 PK			1.93 H	132	101.3	-3.2
4	*2412.00	87.4 AV			1.93 H	132	90.6	-3.2
5	4824.00	47.5 PK	74.0	-26.5	1.64 H	208	46.7	0.8
6	4824.00	34.3 AV	54.0	-19.7	1.64 H	208	33.5	0.8
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	2390.00	69.6 PK	74.0	-4.4	2.41 V	102	72.8	-3.2
2	2390.00	49.8 AV	54.0	-4.2	2.41 V	102	53.0	-3.2
3	*2412.00	103.5 PK			2.41 V	102	106.7	-3.2
4	*2412.00	92.3 AV			2.41 V	102	95.5	-3.2
5	4824.00	46.6 PK	74.0	-27.4	1.21 V	85	45.8	0.8
6	4824.00	33.2 AV	54.0	-20.8	1.21 V	85	32.4	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	98.5 PK			1.90 H	142	101.5	-3.0
2	*2437.00	88.1 AV			1.90 H	142	91.1	-3.0
3	4874.00	46.9 PK	74.0	-27.1	1.04 H	213	46.2	0.7
4	4874.00	34.0 AV	54.0	-20.0	1.04 H	213	33.3	0.7
5	7311.00	51.8 PK	74.0	-22.2	1.11 H	90	45.1	6.7
6	7311.00	38.0 AV	54.0	-16.0	1.11 H	90	31.3	6.7
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	*2437.00	104.7 PK			2.49 V	94	107.7	-3.0
2	*2437.00	93.1 AV			2.49 V	94	96.1	-3.0
3	4874.00	47.6 PK	74.0	-26.4	1.24 V	93	46.9	0.7
4	4874.00	34.2 AV	54.0	-19.8	1.24 V	93	33.5	0.7
5	7311.00	50.7 PK	74.0	-23.3	1.64 V	305	44.0	6.7
6	7311.00	37.1 AV	54.0	-16.9	1.64 V	305	30.4	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	98.5 PK			2.01 H	159	101.6	-3.1
2	*2462.00	87.7 AV			2.01 H	159	90.8	-3.1
3	2483.50	60.4 PK	74.0	-13.6	2.01 H	159	63.5	-3.1
4	2483.50	44.2 AV	54.0	-9.8	2.01 H	159	47.3	-3.1
5	4924.00	46.6 PK	74.0	-27.4	1.67 H	188	45.8	0.8
6	4924.00	34.1 AV	54.0	-19.9	1.67 H	188	33.3	0.8
7	7386.00	51.7 PK	74.0	-22.3	1.26 H	117	44.7	7.0
8	7386.00	38.2 AV	54.0	-15.8	1.26 H	117	31.2	7.0
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	*2462.00	103.4 PK			2.49 V	85	106.5	-3.1
2	*2462.00	91.8 AV			2.49 V	85	94.9	-3.1
3	2483.50	70.8 PK	74.0	-3.2	2.49 V	85	73.9	-3.1
4	2483.50	50.9 AV	54.0	-3.1	2.49 V	85	54.0	-3.1
5	4924.00	47.1 PK	74.0	-26.9	1.22 V	92	46.3	0.8
6	4924.00	33.9 AV	54.0	-20.1	1.22 V	92	33.1	0.8
7	7386.00	51.5 PK	74.0	-22.5	1.65 V	297	44.5	7.0
8	7386.00	37.9 AV	54.0	-16.1	1.65 V	297	30.9	7.0

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

Below 1GHz Data:

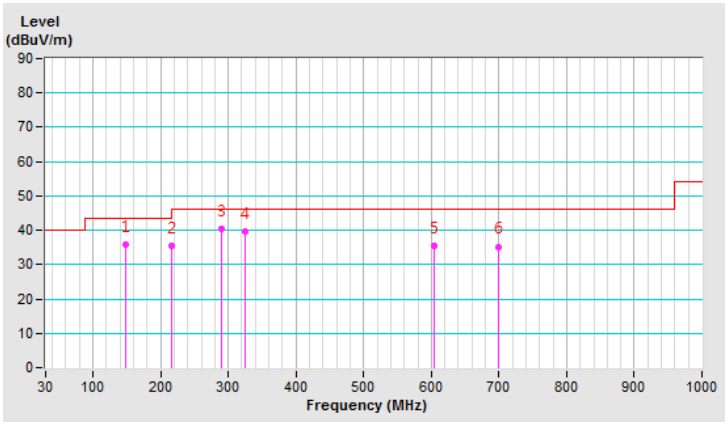
802.11g

CHANNEL	TX Channel 6	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	147.51	35.7 QP	43.5	-7.8	1.00 H	248	21.6	14.1
2	216.26	35.3 QP	46.0	-10.7	1.00 H	79	23.9	11.4
3	289.42	40.4 QP	46.0	-5.6	1.00 H	72	26.1	14.3
4	325.06	39.5 QP	46.0	-6.5	1.00 H	319	24.2	15.3
5	604.91	35.6 QP	46.0	-10.4	1.00 H	85	14.1	21.5
6	699.06	35.3 QP	46.0	-10.7	1.00 H	37	12.7	22.6

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. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

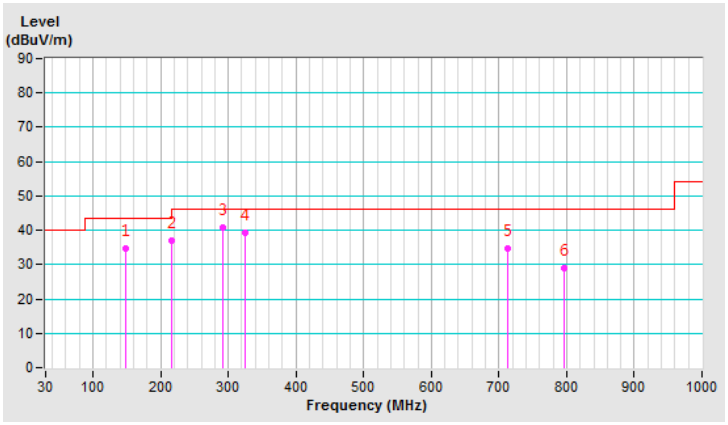


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	147.69	34.7 QP	43.5	-8.8	1.00 V	258	52.6	-17.9
2	216.31	37.0 QP	46.0	-9.0	1.00 V	235	57.6	-20.6
3	292.09	40.9 QP	46.0	-5.1	1.00 V	85	58.5	-17.6
4	324.69	39.4 QP	46.0	-6.6	1.00 V	194	56.1	-16.7
5	713.52	34.7 QP	46.0	-11.3	1.00 V	32	43.5	-8.8
6	797.03	28.9 QP	46.0	-17.1	1.00 V	194	36.5	-7.6

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. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.10 Test Results (Mode 4)

Above 1GHz Data:

802.11b

CHANNEL	TX Channel 1	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	66.4 PK	74.0	-7.6	1.72 H	91	69.6	-3.2
2	2390.00	45.5 AV	54.0	-8.5	1.72 H	91	48.7	-3.2
3	*2412.00	107.3 PK			1.72 H	91	110.5	-3.2
4	*2412.00	105.1 AV			1.72 H	91	108.3	-3.2
5	4824.00	50.0 PK	74.0	-24.0	1.75 H	42	49.2	0.8
6	4824.00	42.5 AV	54.0	-11.5	1.75 H	42	41.7	0.8
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	2390.00	61.4 PK	74.0	-12.6	1.00 V	192	64.6	-3.2
2	2390.00	41.5 AV	54.0	-12.5	1.00 V	192	44.7	-3.2
3	*2412.00	104.1 PK			1.00 V	192	107.3	-3.2
4	*2412.00	101.2 AV			1.00 V	192	104.4	-3.2
5	4824.00	51.6 PK	74.0	-22.4	1.33 V	118	50.8	0.8
6	4824.00	45.7 AV	54.0	-8.3	1.33 V	118	44.9	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	107.1 PK			1.66 H	104	110.1	-3.0
2	*2437.00	104.5 AV			1.66 H	104	107.5	-3.0
3	4874.00	48.8 PK	74.0	-25.2	1.69 H	15	48.1	0.7
4	4874.00	42.0 AV	54.0	-12.0	1.69 H	15	41.3	0.7
5	7311.00	52.9 PK	74.0	-21.1	1.55 H	303	46.2	6.7
6	7311.00	46.5 AV	54.0	-7.5	1.55 H	303	39.8	6.7
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	*2437.00	103.0 PK			1.11 V	188	106.0	-3.0
2	*2437.00	100.6 AV			1.11 V	188	103.6	-3.0
3	4874.00	50.5 PK	74.0	-23.5	1.53 V	137	49.8	0.7
4	4874.00	44.4 AV	54.0	-9.6	1.53 V	137	43.7	0.7
5	7311.00	51.3 PK	74.0	-22.7	1.02 V	139	44.6	6.7
6	7311.00	40.8 AV	54.0	-13.2	1.02 V	139	34.1	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	107.6 PK			1.62 H	103	110.7	-3.1
2	*2462.00	104.9 AV			1.62 H	103	108.0	-3.1
3	2483.50	66.3 PK	74.0	-7.7	1.62 H	103	69.4	-3.1
4	2483.50	45.2 AV	54.0	-8.8	1.62 H	103	48.3	-3.1
5	4924.00	49.4 PK	74.0	-24.6	1.69 H	35	48.6	0.8
6	4924.00	42.6 AV	54.0	-11.4	1.69 H	35	41.8	0.8
7	7386.00	54.2 PK	74.0	-19.8	1.52 H	309	47.2	7.0
8	7386.00	47.0 AV	54.0	-7.0	1.52 H	309	40.0	7.0
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	*2462.00	104.1 PK			1.07 V	188	107.2	-3.1
2	*2462.00	101.4 AV			1.07 V	188	104.5	-3.1
3	2483.50	62.0 PK	74.0	-12.0	1.07 V	188	65.1	-3.1
4	2483.50	41.8 AV	54.0	-12.2	1.07 V	188	44.9	-3.1
5	4924.00	50.8 PK	74.0	-23.2	1.53 V	106	50.0	0.8
6	4924.00	45.4 AV	54.0	-8.6	1.53 V	106	44.6	0.8
7	7386.00	51.3 PK	74.0	-22.7	1.04 V	112	44.3	7.0
8	7386.00	40.9 AV	54.0	-13.1	1.04 V	112	33.9	7.0

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	70.6 PK	74.0	-3.4	1.69 H	100	73.8	-3.2
2	2390.00	49.7 AV	54.0	-4.3	1.69 H	100	52.9	-3.2
3	*2412.00	105.2 PK			1.69 H	100	108.4	-3.2
4	*2412.00	93.9 AV			1.69 H	100	97.1	-3.2
5	4824.00	47.0 PK	74.0	-27.0	1.04 H	222	46.2	0.8
6	4824.00	33.9 AV	54.0	-20.1	1.04 H	222	33.1	0.8
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	2390.00	67.5 PK	74.0	-6.5	1.04 V	183	70.7	-3.2
2	2390.00	48.1 AV	54.0	-5.9	1.04 V	183	51.3	-3.2
3	*2412.00	102.3 PK			1.04 V	183	105.5	-3.2
4	*2412.00	90.5 AV			1.04 V	183	93.7	-3.2
5	4824.00	46.8 PK	74.0	-27.2	1.31 V	68	46.0	0.8
6	4824.00	33.4 AV	54.0	-20.6	1.31 V	68	32.6	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	108.2 PK			1.70 H	110	111.2	-3.0
2	*2437.00	96.2 AV			1.70 H	110	99.2	-3.0
3	4874.00	46.3 PK	74.0	-27.7	1.02 H	210	45.6	0.7
4	4874.00	33.2 AV	54.0	-20.8	1.02 H	210	32.5	0.7
5	7311.00	51.8 PK	74.0	-22.2	1.25 H	75	45.1	6.7
6	7311.00	37.8 AV	54.0	-16.2	1.25 H	75	31.1	6.7
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	*2437.00	104.4 PK			1.04 V	192	107.4	-3.0
2	*2437.00	92.3 AV			1.04 V	192	95.3	-3.0
3	4874.00	46.9 PK	74.0	-27.1	1.24 V	88	46.2	0.7
4	4874.00	34.1 AV	54.0	-19.9	1.24 V	88	33.4	0.7
5	7311.00	50.8 PK	74.0	-23.2	1.78 V	277	44.1	6.7
6	7311.00	37.2 AV	54.0	-16.8	1.78 V	277	30.5	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	105.8 PK			1.66 H	115	108.9	-3.1
2	*2462.00	94.2 AV			1.66 H	115	97.3	-3.1
3	2483.50	70.6 PK	74.0	-3.4	1.66 H	115	73.7	-3.1
4	2483.50	50.2 AV	54.0	-3.8	1.66 H	115	53.3	-3.1
5	4924.00	47.0 PK	74.0	-27.0	1.05 H	206	46.2	0.8
6	4924.00	34.1 AV	54.0	-19.9	1.05 H	206	33.3	0.8
7	7386.00	51.5 PK	74.0	-22.5	1.22 H	101	44.5	7.0
8	7386.00	38.0 AV	54.0	-16.0	1.22 H	101	31.0	7.0
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	*2462.00	101.5 PK			1.05 V	186	104.6	-3.1
2	*2462.00	89.9 AV			1.05 V	186	93.0	-3.1
3	2483.50	66.4 PK	74.0	-7.6	1.05 V	186	69.5	-3.1
4	2483.50	46.9 AV	54.0	-7.1	1.05 V	186	50.0	-3.1
5	4924.00	46.4 PK	74.0	-27.6	1.22 V	61	45.6	0.8
6	4924.00	33.1 AV	54.0	-20.9	1.22 V	61	32.3	0.8
7	7386.00	50.4 PK	74.0	-23.6	1.65 V	301	43.4	7.0
8	7386.00	36.7 AV	54.0	-17.3	1.65 V	301	29.7	7.0

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	2390.00	71.1 PK	74.0	-2.9	1.57 H	132	74.3	-3.2
2	2390.00	50.1 AV	54.0	-3.9	1.57 H	132	53.3	-3.2
3	*2412.00	103.4 PK			1.57 H	132	106.6	-3.2
4	*2412.00	92.4 AV			1.57 H	132	95.6	-3.2
5	4824.00	46.2 PK	74.0	-27.8	1.00 H	188	45.4	0.8
6	4824.00	33.2 AV	54.0	-20.8	1.00 H	188	32.4	0.8
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	2390.00	67.5 PK	74.0	-6.5	1.04 V	169	70.7	-3.2
2	2390.00	48.0 AV	54.0	-6.0	1.04 V	169	51.2	-3.2
3	*2412.00	99.2 PK			1.04 V	169	102.4	-3.2
4	*2412.00	87.8 AV			1.04 V	169	91.0	-3.2
5	4824.00	46.5 PK	74.0	-27.5	1.21 V	90	45.7	0.8
6	4824.00	33.2 AV	54.0	-20.8	1.21 V	90	32.4	0.8

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	106.7 PK			1.70 H	119	109.7	-3.0
2	*2437.00	94.9 AV			1.70 H	119	97.9	-3.0
3	4874.00	46.4 PK	74.0	-27.6	1.10 H	203	45.7	0.7
4	4874.00	33.5 AV	54.0	-20.5	1.10 H	203	32.8	0.7
5	7311.00	51.9 PK	74.0	-22.1	1.21 H	100	45.2	6.7
6	7311.00	38.3 AV	54.0	-15.7	1.21 H	100	31.6	6.7
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	*2437.00	103.5 PK			1.15 V	185	106.5	-3.0
2	*2437.00	91.5 AV			1.15 V	185	94.5	-3.0
3	4874.00	47.0 PK	74.0	-27.0	1.25 V	99	46.3	0.7
4	4874.00	34.2 AV	54.0	-19.8	1.25 V	99	33.5	0.7
5	7311.00	50.8 PK	74.0	-23.2	1.73 V	301	44.1	6.7
6	7311.00	37.2 AV	54.0	-16.8	1.73 V	301	30.5	6.7

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	104.1 PK			1.63 H	124	107.2	-3.1
2	*2462.00	93.4 AV			1.63 H	124	96.5	-3.1
3	2483.50	70.8 PK	74.0	-3.2	1.63 H	124	73.9	-3.1
4	2483.50	51.0 AV	54.0	-3.0	1.63 H	124	54.1	-3.1
5	4924.00	47.0 PK	74.0	-27.0	1.00 H	224	46.2	0.8
6	4924.00	34.0 AV	54.0	-20.0	1.00 H	224	33.2	0.8
7	7386.00	51.9 PK	74.0	-22.1	1.21 H	126	44.9	7.0
8	7386.00	38.5 AV	54.0	-15.5	1.21 H	126	31.5	7.0
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	*2462.00	100.7 PK			1.07 V	167	103.8	-3.1
2	*2462.00	89.5 AV			1.07 V	167	92.6	-3.1
3	2483.50	68.2 PK	74.0	-5.8	1.07 V	167	71.3	-3.1
4	2483.50	49.1 AV	54.0	-4.9	1.07 V	167	52.2	-3.1
5	4924.00	46.9 PK	74.0	-27.1	1.19 V	76	46.1	0.8
6	4924.00	34.0 AV	54.0	-20.0	1.19 V	76	33.2	0.8
7	7386.00	51.1 PK	74.0	-22.9	1.71 V	284	44.1	7.0
8	7386.00	37.5 AV	54.0	-16.5	1.71 V	284	30.5	7.0

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

Below 1GHz Data:

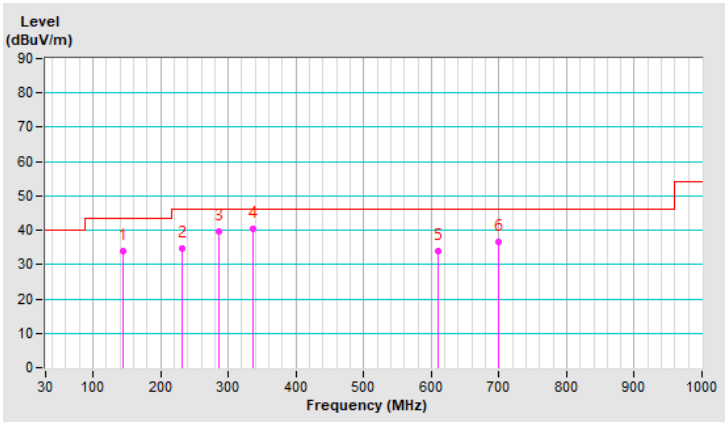
802.11g

CHANNEL	TX Channel 6	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	144.25	33.9 QP	43.5	-9.6	1.00 H	269	47.0	-13.1
2	232.49	34.6 QP	46.0	-11.4	1.00 H	161	49.5	-14.9
3	286.13	39.6 QP	46.0	-6.4	1.00 H	86	52.3	-12.7
4	336.29	40.3 QP	46.0	-5.7	1.00 H	120	51.7	-11.4
5	609.61	33.9 QP	46.0	-12.1	1.00 H	85	38.9	-5.0
6	699.51	36.5 QP	46.0	-9.5	1.00 H	34	40.5	-4.0

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. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

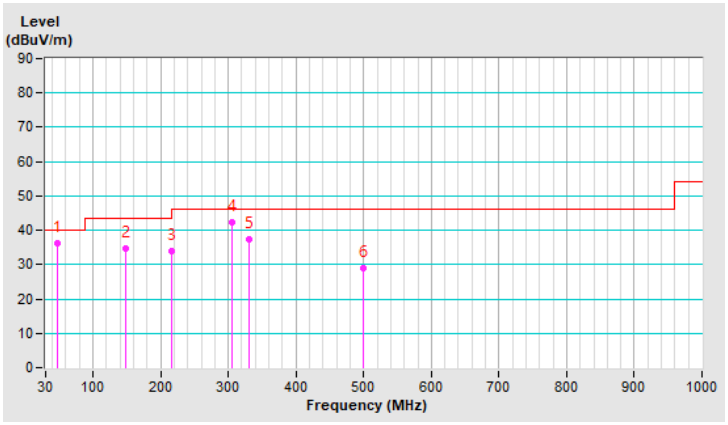


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	46.81	36.1 QP	40.0	-3.9	1.00 V	25	49.4	-13.3
2	147.42	34.8 QP	43.5	-8.7	1.00 V	201	47.7	-12.9
3	216.26	33.8 QP	46.0	-12.2	1.00 V	163	49.4	-15.6
4	304.88	42.3 QP	46.0	-3.7	1.00 V	40	54.6	-12.3
5	329.77	37.3 QP	46.0	-8.7	1.00 V	139	48.7	-11.4
6	499.81	28.8 QP	46.0	-17.2	1.00 V	168	36.5	-7.7

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. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

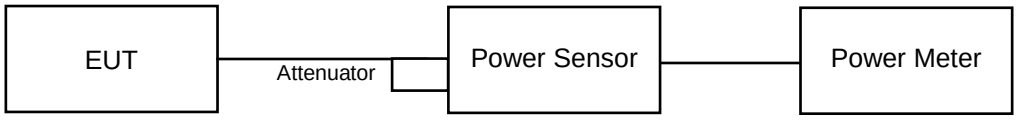


4.2 Conducted Output Power Measurement

4.2.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was 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.

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Conditions

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

4.2.7 Test Results

FOR PEAK POWER

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	63.387	18.02	30.00	Pass
6	2437	96.605	19.85	30.00	Pass
11	2462	74.131	18.70	30.00	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	154.17	21.88	30.00	Pass
6	2437	195.884	22.92	30.00	Pass
11	2462	164.059	22.15	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	78.343	18.94	30.00	Pass
6	2437	155.955	21.93	30.00	Pass
11	2462	104.232	20.18	30.00	Pass

FOR AVERAGE POWER

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	37.239	15.71
6	2437	52.481	17.20
11	2462	40.087	16.03

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	15.668	11.95
6	2437	28.249	14.51
11	2462	18.113	12.58

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	10.715	10.30
6	2437	20.606	13.14
11	2462	13.74	11.38

5 Pictures of Test Arrangements

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

Appendix – Information of 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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

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

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