

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Report No.: RFBCIC-WTW-P24100659A

FCC ID: U8G-P1MT01

Product: Peplink Pepwave Wireless Product

Brand: peplink PEPWAVE

Model No.: MAX BR1 Mini

Series Model: MAX-BR1-MINI-LTE-US-T-PRM, MAX-BR1-MINI-LTEA-US-T-PRM,

MAX-BR1-MINI-LTE-US-DC-T-PRM, MAX-BR1-MINI-LTEA-US-DC-T-PRM, AP One Rugged, APO-AC-RUG, MAX BR1 Mini 5G, MAX-BR1-MINI-5GN-T-PRM, MAX-BR1-

MINI-5GN-DC-T-PRM (refer to item 3.1 for more details)

Received Date: 2024/12/27

Test Date: 2025/1/9 ~ 2025/1/15

Issued Date: 2025/2/19

Applicant: PISMO LABS TECHNOLOGY LIMITED

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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

FCC Registration / 788550 / TW0003

Designation Number:

Approved by:	Je	every Lin	,	Date:	2025/2/19	

Jeremy Lin / Project Engineer

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Prepared by: Lena Wang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCIC-WTW-P24100659A	Original release.	2025/2/19

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1 Certificate

Product: Peplink Pepwave Wireless Product

Brand: peplink PEPWAVE

Test Model: MAX BR1 Mini

Series Model: MAX-BR1-MINI-LTE-US-T-PRM, MAX-BR1-MINI-LTEA-US-T-PRM,

MAX-BR1-MINI-LTE-US-DC-T-PRM, MAX-BR1-MINI-LTEA-US-DC-T-PRM, AP One Rugged, APO-AC-RUG, MAX BR1 Mini 5G, MAX-BR1-MINI-5GN-T-PRM, MAX-BR1-MINI-5GN-DC-T-

PRM (refer to item 3.1 for more details)

Sample Status: Prototype

Applicant: PISMO LABS TECHNOLOGY LIMITED

Test Date: 2025/1/9 ~ 2025/1/15

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)

Measurement ANSI C63.10-2013

procedure: KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 662911 D01 Multiple Transmitter Output v02r01

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.

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2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)						
Standard / Clause	Test Item	Result	Remark			
15.247(b)	RF Output Power	Pass	Meet the requirement of limit.			
15.247(e)	Power Spectral Density	N/A	Refer to note			
15.247(a)(2)	6 dB Bandwidth	N/A	Refer to note			
15.247(d)	Conducted Out of Band Emissions	N/A	Refer to note			
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -4.07 dB at 0.35400 MHz			
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.7 dB at 54.25 MHz			
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -3.0 dB at 2483.50 MHz			
15.203	Antenna Requirement	Pass	Antenna connector is RP-SMA not a standard connector.			

Notes:

- 1. Only test items of RF Output Power, AC Power Conducted Emissions and Unwanted Emissions tests were verified and recorded in this report. Other testing data please refer to original report.
- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	Specification	Expanded Uncertainty (k=2) (±)	
RF Output Power	-	1.371 dB	
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB	
Unwented Emissions helpy 1 CHz	9 kHz ~ 30 MHz	3.59 dB	
Unwanted Emissions below 1 GHz	30 MHz ~ 1 GHz	3.6 dB	
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB	
Unwanted Emissions above 1 GHZ	18 GHz ~ 40 GHz	2.29 dB	

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

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3 General Information

3.1 General Description

Product	Peplink Pepwave Wireless Product			
Brand	peplink PEPWAVE			
Test Model	MAX BR1 Mini			
	MAX-BR1-MINI-LTE-US-T-PRM, MAX-BR1-MINI-LTEA-US-T-PRM,			
Series Model	MAX-BR1-MINI-LTE-US-DC-T-PRM, MAX-BR1-MINI-LTEA-US-DC-T-PRM, AP One			
Series Model	Rugged, APO-AC-RUG, MAX BR1 Mini 5G, MAX-BR1-MINI-5GN-T-PRM, MAX-BR1-			
	MINI-5GN-DC-T-PRM			
Model Difference	Refer to Note as below			
Status of EUT	Prototype			
Power Supply Rating	Refer to Note as below			
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Modulation Technology	DSSS, OFDM			
	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps			
Transfer Rate	802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps			
	802.11n: up to 300 Mbps			
Operating Frequency	2.412 GHz ~ 2.462 GHz			
Number of Channel	802.11b, 802.11g, 802.11n (HT20):11 802.11n (HT40):7			
Output Power	172.381 mW (22.36 dBm)			

Note:

- This report is issued as a supplementary report to BV CPS report no.: RFBCIC-WTW-P24100659. The differences
 compared with original report are listed as below. Therefore, only test items of RF Output Power, AC Power
 Conducted Emissions and Unwanted Emissions tests were verified and recorded in this report. Other testing data
 please refer to original report.
 - Adding WWAN Module: Quectel / RM520N-GL.
 - Adding Models: MAX BR1 Mini 5G, MAX-BR1-MINI-5GN-T-PRM, MAX-BR1-MINI-5GN-DC-T-PRM for 5G for marketing.
 - Adding New appearance (WWAN antenna connector*4, GPS cancel) for model: MAX BR1 Mini 5G, MAX-BR1-MINI-5GN-T-PRM and MAX-BR1-MINI-5GN-DC-T-PRM.

2. All models are listed as below. (New models are marked in gray)

Brand	Model	Difference	
	MAX BR1 Mini		
	MAX-BR1-MINI-LTE-US-T-PRM		
	MAX-BR1-MINI-LTEA-US-T-PRM	For marketing purpose (with Cellular & GPS feature)	
	MAX-BR1-MINI-LTE-US-DC-T-PRM	(with Celidial & GPS leature)	
peplink PEPWAVE	MAX-BR1-MINI-LTEA-US-DC-T-PRM		
pepilink PEP WAVE	AP One Rugged	For marketing purpose	
	APO-AC-RUG	(without Cellular & GPS feature)	
	MAX BR1 Mini 5G		
	MAX-BR1-MINI-5GN-T-PRM	For marketing purpose (without GPS feature)	
	MAX-BR1-MINI-5GN-DC-T-PRM	(without GF3 leature)	

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3. The EUT uses following accessories.

Item	Brand	Model	AC Input	DC Output	DC Output Cable
Adapter	LEI	MU24D1120200-A1	100-240Vac 50/60Hz 0.7A	12Vdc 2.0A	Non-Shielded, 1.5m

^{*}The AC power adapter model 'MU24D1120200-A1' was used as a representative adapter for testing.

5. Simultaneously transmission combination.

Combination		Technology				
1	WLAN 2.4 GHz	WLAN 5 GHz	WWAN			
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.						

^{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 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type			
WiFi_2-1 / WiFi_2-2	0/1	WIESON	ARY121-1976-	2.25 2.55	2.4 GHz ~ 2.4835 GHz 5.15 GHz ~ 5.25 GHz	Omni-	RP-SMA			
(Newly)	J. 1	001-00	001-00	001-00	001-00	001-00	3.36	5.725 GHz ~ 5.85 GHz	directional	
WiFi 1-1/			101 0010 00111	3.15	2.4 GHz ~ 2.4835 GHz					
WiFi_1-2	0/1	YUAN CHEN	ACA-0040-6G1A1- A10	3.29	5.15 GHz ~ 5.25 GHz	Omni- directional	RP-SMA			
(Original)			Alu	4.76	5.725 GHz ~ 5.85 GHz					

^{*} Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

2.4 GHz Band							
Modulation Mode TX & RX Configuration							
802.11b	2TX	2RX					
802.11g	2TX	2RX					
802.11n (HT20)	2TX	2RX					
802.11n (HT40)	2TX	2RX					

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^{4.} There are WLAN (2.4 GHz/5 GHz) and WWAN (WCDMA/LTE/5GNR) technology used for the EUT.



3.3 Channel List

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

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

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

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3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	 EUT has the following operations/ usages: 10Vdc from Molex Power Port / 30Vdc from Molex Power Port / 12Vdc from Adapter / POE. Pre-scan these operations/ usages and find the worst case as a representative test condition. EUT has the following operations/ usages: eSIM_1 WP68-M002c-MFOCMW / eSIM_2 MFXS-M006b-MFOCMW. Pre-scan these operations/ usages and find the worst case as a representative test condition. EUT can be used in the following ways: Lying/ Wall Mount. Pre-scan these ways and find the worst case as a representative test condition. 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).
Worst Case:	1. 10Vdc from Molex Power Port / 30Vdc from Molex Power Port / 12Vdc from Adapter / POE Worst Condition: 12Vdc from Adapter 2. eSIM_1 WP68-M002c-MFOCMW / eSIM_2 MFXS-M006b-MFOCMW Worst Condition: eSIM_1 WP68-M002c-MFOCMW 3. Lying/ Wall Mount Worst Condition:Wall Mount

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

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	Α	802.11g	1, 6, 11	BPSK	6Mb/s
AC Power Conducted Emissions	А	802.11g	6	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	Α	802.11g	6	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	А	802.11g	1, 6, 11	BPSK	6Mb/s
EUT Configure Mode:	А	EUT with WWAN module : RM520N-GL with the below antennas: WiFi antennas: ACA-0040-6G1A1-A10 WWAN antennas: DAM-D13-S1-N0-000-08-20			

Note:

- 1. The above evaluation models and related information are based on the original WiFi certification report and the information provided by the manufacturer.
- 2. This evaluation mainly focuses on output power and radiated spurious emission with worst condition.
- 3. After evaluation, the WiFi antennas was used with the highest gain as the representative antenna for testing.
- 4. The above EUT worst configuration conditions are referenced to the original case BCIC-WTW-P24100659.

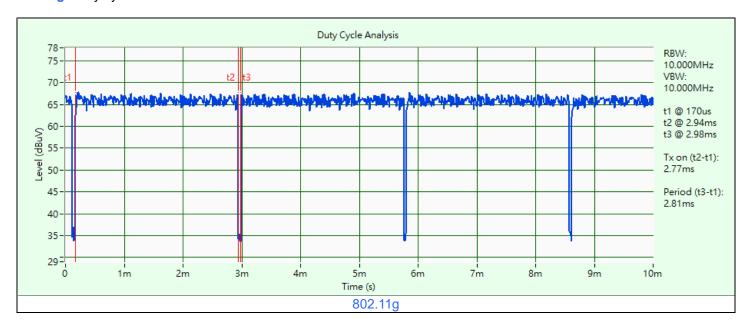
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3.5 Duty Cycle of Test Signal

802.11g: Duty cycle = 2.77 ms / 2.81 ms x 100% = 98.6%

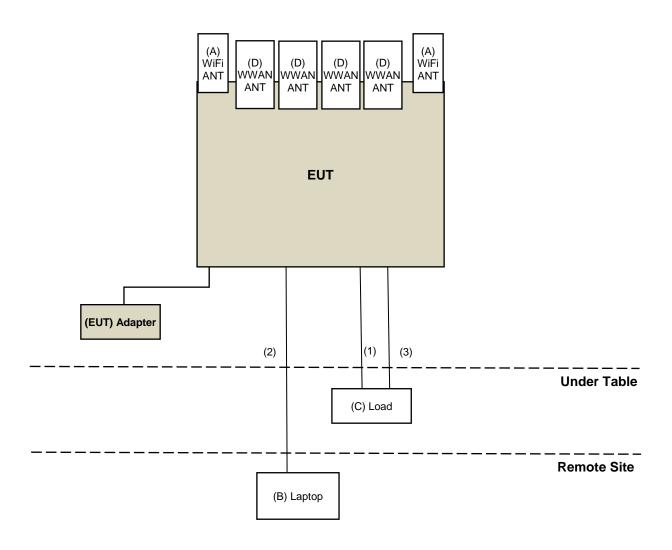




3.6 Test Program Used and Operation Descriptions

Controlling software QA Tool has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α	WIFI ANT	YUAN CHEN	ACA-0040-6G1A1-A10	N/A	N/A	Supplied by applicant
В	Laptop	Lenovo	L470	PF0TALPX	N/A	Provided by Lab
С	Load	N/A	N/A	N/A	N/A	Provided by Lab
D	WWAN ANT	INPAQ	DAM-D13-S1-N0-000- 08-20	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45	1	1.5	N	0	Provided by Lab
2	RJ-45	1	10	N	0	Provided by Lab
3	RJ-45	1	1.5	N	0	Provided by Lab

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4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2024/1/21	2025/1/20
Wideband Power Sensor	N1923A	MY58020002	2024/1/18	2025/1/17
Keysight	INTEGA	MY58140009	2024/1/18	2025/1/17

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2025/1/15

4.2 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 destablished and the second	E1-011277	02	2024/10/25	2025/10/24
50 ohm terminal resistance HUBER+SUHNER	E1-011313	11	2024/2/1	2025/1/31
HUBER+SURIVER	E1-011595	21	2024/3/8	2025/3/7
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
EMI Test Receiver R&S	ESCI	100613	2024/11/25	2025/11/24
Fixed Attenuator Mini-Circuits	HAT-10+	PAD-COND1-01	2025/1/5	2026/1/4
LISN	ENV216	101826	2024/3/25	2025/3/24
R&S	ESH3-Z5	100311	2024/9/5	2025/9/4
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2025/1/5	2026/1/4
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 1.

2. Tested Date: 2025/1/10

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4.3 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2024/10/9	2025/10/8
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Keysight	N9038B	MY60180018	2024/3/13	2025/3/12
Preamplifier Agilent	8447D	2944A10638	2024/5/1	2025/4/30
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2024/5/1	2025/4/30
Signal & Spectrum Analyzer R&S	FSW43	101866	2024/3/26	2025/3/25
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.

2. Tested Date: 2025/1/10

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4.4 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
	BBHA 9120D	9120D-1169	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	DDIIA 0470	9170-480	2024/11/10	2025/11/9
Scriwarzbeck	BBHA 9170	BBHA9170243	2024/11/10	2025/11/9
MXE EMI Receiver Keysight	N9038B	MY60180018	2024/3/13	2025/3/12
Preamplifier Agilent	8449B	3008A02367	2025/1/5	2026/1/4
Preamplifier EMCI	EMC 184045	980116	2024/9/24	2025/9/23
RF Coaxial Cable	EMC102-KM-KM-600	150928	2024/7/6	2025/7/5
EMCI	EMC102-KM-KM-3000	150929	2024/7/6	2025/7/5
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5	2026/1/4
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5	2026/1/4
Signal & Spectrum Analyzer R&S	FSW43	101866	2024/3/26	2025/3/25
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.

2. Tested Date: 2025/1/9

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Limits of Test Items 5

5.1 **RF Output Power**

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

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

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

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 $N_{ANT} \ge 5$.

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

AC Power Conducted Emissions 5.2

Fragues ov (MHz)	Conducted Limit (dBuV)		
Frequency (MHz)	Quasi-peak	Average	
0.15 - 0.5	66 - 56	56 - 46	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

Notes:

- 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 0.50 MHz.

Unwanted Emissions below 1 GHz 5.3

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB 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

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

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5.4 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

Frequencies	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
Above 960	500	3

Notes:

- 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 1000 MHz, 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 20 dB under any condition of modulation.

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6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



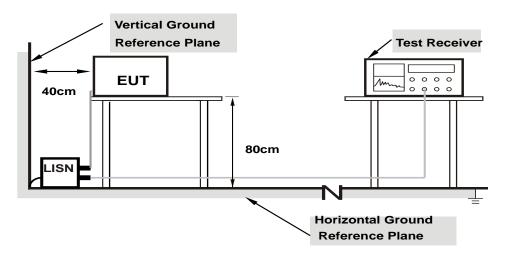
6.1.2 Test Procedure

Average Power:

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.

6.2 AC Power Conducted Emissions

6.2.1 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).

6.2.2 Test Procedure

- a. The EUT was placed on a 0.8 meter to the top of table and 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/ 50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

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

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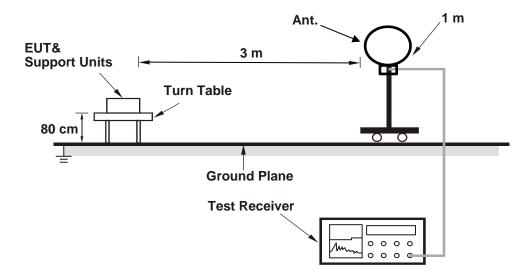
Reference No.: BCIC-WTW-P24120992



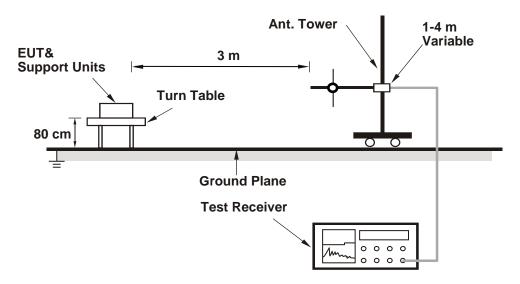
6.3 Unwanted Emissions below 1 GHz

6.3.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

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6.3.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters 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. 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, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
- 3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters 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.

Notes:

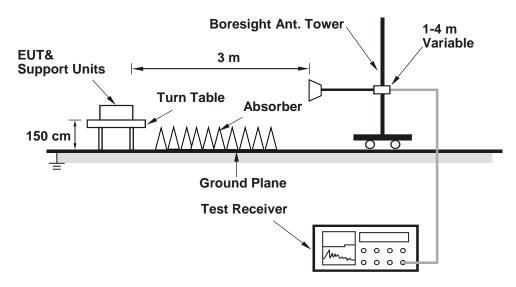
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

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6.4 Unwanted Emissions above 1 GHz

6.4.1 Test Setup



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

6.4.2 Test Procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters 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 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.

Notes:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- 2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

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7 Test Results of Test Item

7.1 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin
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802.11g

For Average Power

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit	Test Result
		Chain 0	Chain 1	(mvv)	(ubiii)	(dBm)	
1	2412	13.46	12.53	40.088	16.03	30	Pass
6	2437	20.13	18.41	172.381	22.36	30	Pass
11	2462	13.02	12.62	38.326	15.83	30	Pass

Notes:

- 1. Directional gain is the maximum gain of antennas.
- 2. The maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.

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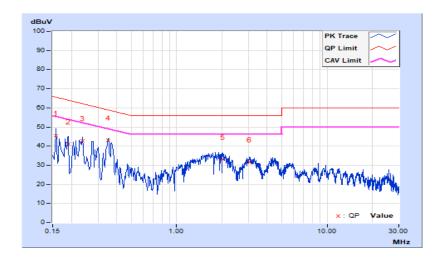
7.2 AC Power Conducted Emissions

RF Mode	802.11g	Channel	CH 6: 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

	Phase Of Power : Line (L)											
No	Frequency	Correction Factor		Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.15800	9.76	35.55	29.44	45.31	39.20	65.57	55.57	-20.26	-16.37		
2	0.19000	9.76	31.23	23.23	40.99	32.99	64.04	54.04	-23.05	-21.05		
3	0.23800	9.78	33.03	19.89	42.81	29.67	62.17	52.17	-19.36	-22.50		
4	0.35000	9.84	33.25	31.66	43.09	41.50	58.96	48.96	-15.87	-7.46		
5	2.02200	10.04	22.86	15.52	32.90	25.56	56.00	46.00	-23.10	-20.44		
6	3.03800	10.12	21.59	14.30	31.71	24.42	56.00	46.00	-24.29	-21.58		

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



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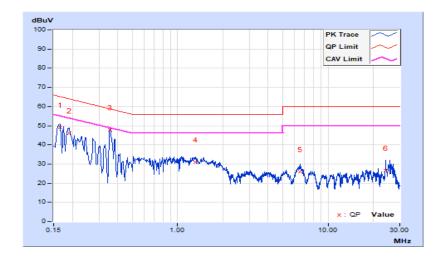


			VERITAS
RF Mode	802.11g	Channel	CH 6: 2437 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

	Phase Of Power : Neutral (N)											
No	Frequency	Correction Factor	n Reading Value Emission Level (dBuV)			nit uV)	Margin (dB)					
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.16535	9.72	39.49	20.14	49.21	29.86	65.19	55.19	-15.98	-25.33		
2	0.19000	9.73	36.40	18.98	46.13	28.71	64.04	54.04	-17.91	-25.33		
3	0.35400	9.87	37.87	34.93	47.74	44.80	58.87	48.87	-11.13	-4.07		
4	1.31000	10.07	20.85	12.82	30.92	22.89	56.00	46.00	-25.08	-23.11		
5	6.56600	10.39	15.38	9.19	25.77	19.58	60.00	50.00	-34.23	-30.42		
6	24.20600	11.21	15.30	9.93	26.51	21.14	60.00	50.00	-33.49	-28.86		

Remarks:

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



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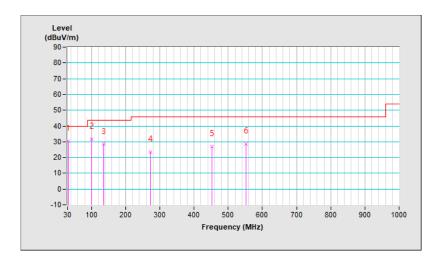
7.3 Unwanted Emissions below 1 GHz

RF Mode	802.11g	Channel	CH 6: 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

	Antenna Polarity & Test Distance : Horizontal at 3 m									
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	31.94	30.3 QP	40.0	-9.7	1.49 H	228	40.6	-10.3		
2	100.81	31.6 QP	43.5	-11.9	1.49 H	258	44.5	-12.9		
3	135.73	28.4 QP	43.5	-15.1	1.99 H	88	37.5	-9.1		
4	273.47	23.6 QP	46.0	-22.4	1.00 H	115	31.0	-7.4		
5	452.92	26.7 QP	46.0	-19.3	1.99 H	296	30.3	-3.6		
6	551.86	28.7 QP	46.0	-17.3	1.49 H	153	30.8	-2.1		

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 other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



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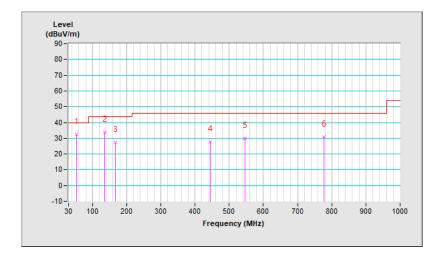


			VERITAS
RF Mode	802.11g	Channel	CH 6: 2437 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

	Antenna Polarity & Test Distance : Vertical at 3 m									
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	54.25	32.3 QP	40.0	-7.7	1.00 V	54	41.3	-9.0		
2	135.73	33.9 QP	43.5	-9.6	1.00 V	232	43.0	-9.1		
3	167.74	27.5 QP	43.5	-16.0	1.00 V	288	35.9	-8.4		
4	445.16	27.9 QP	46.0	-18.1	1.00 V	86	31.7	-3.8		
5	546.04	29.9 QP	46.0	-16.1	1.00 V	107	32.1	-2.2		
6	776.90	30.9 QP	46.0	-15.1	1.49 V	163	28.3	2.6		

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 other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



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7.4 Unwanted Emissions above 1 GHz

RF Mode	802.11g	Channel	CH 1: 2412 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance: Horizontal at 3 m

No	Frequency (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	60.1 PK	74.0	-13.9	1.13 H	194	26.0	34.1
2	2390.00	46.8 AV	54.0	-7.2	1.13 H	194	12.7	34.1
3	*2412.00	98.2 PK			1.13 H	194	64.2	34.0
4	*2412.00	88.9 AV			1.13 H	194	54.9	34.0
5	4824.00	51.4 PK	74.0	-22.6	1.67 H	155	41.1	10.3
6	4824.00	37.1 AV	54.0	-16.9	1.67 H	155	26.8	10.3
			Antenna Pola	rity & Test Dis	stance : Vertic	al at 3 m		
No	Frequency (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	63.3 PK	74.0	-10.7	2.53 V	179	29.2	34.1
2	2390.00	49.9 AV	54.0	-4.1	2.53 V	179	15.8	34.1
3	*2412.00	113.6 PK			2.53 V	179	79.6	34.0
4	*2412.00	104.0 AV			2.53 V	179	70.0	34.0
5	4824.00	50.7 PK	74.0	-23.3	3.09 V	207	40.4	10.3
6	4824.00	37.3 AV	54.0	-16.7	3.09 V	207	27.0	10.3

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. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

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			VERITAS
RF Mode	802.11g	Channel	CH 6: 2437 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

	Antenna Polarity & Test Distance : Horizontal at 3 m							
No	Frequency (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	60.2 PK	74.0	-13.8	1.11 H	197	26.1	34.1
2	2390.00	46.8 AV	54.0	-7.2	1.11 H	197	12.7	34.1
3	*2437.00	102.8 PK			1.11 H	197	68.8	34.0
4	*2437.00	93.8 AV			1.11 H	197	59.8	34.0
5	2483.50	60.3 PK	74.0	-13.7	1.11 H	197	26.2	34.1
6	2483.50	48.5 AV	54.0	-5.5	1.11 H	197	14.4	34.1
7	4874.00	50.8 PK	74.0	-23.2	1.64 H	161	40.3	10.5
8	4874.00	37.3 AV	54.0	-16.7	1.64 H	161	26.8	10.5
			Antenna Pola	rity & Test Dis	stance : Vertic	al at 3 m		
No	Frequency (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	60.8 PK	74.0	-13.2	2.70 V	189	26.7	34.1
2	2390.00	48.4 AV	54.0	-5.6	2.70 V	189	14.3	34.1
3	*2437.00	118.6 PK			2.70 V	189	84.6	34.0
4	*2437.00	109.1 AV			2.70 V	189	75.1	34.0
5	2483.50	62.1 PK	74.0	-11.9	2.70 V	189	28.0	34.1
6	2483.50	50.3 AV	54.0	-3.7	2.70 V	189	16.2	34.1
7	4874.00	51.5 PK	74.0	-22.5	2.36 V	277	41.0	10.5
8	4874.00	39.0 AV	54.0	-15.0	2.36 V	277	28.5	10.5

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. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

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Correction

Factor

			VERITAS
RF Mode	802.11g	Channel	CH 11: 2462 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m

Margin

Antenna

Height

Table

Angle

Raw

Value

	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)	
1	*2462.00	96.7 PK			1.10 H	196	62.6	34.1	
2	*2462.00	87.3 AV			1.10 H	196	53.2	34.1	
3	2483.50	59.4 PK	74.0	-14.6	1.10 H	196	25.3	34.1	
4	2483.50	48.6 AV	54.0	-5.4	1.10 H	196	14.5	34.1	
5	4924.00	50.4 PK	74.0	-23.6	1.68 H	159	39.7	10.7	
6	4924.00	37.5 AV	54.0	-16.5	1.68 H	159	26.8	10.7	
	Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
No		Level			Height	Angle	Value	Factor	
No 1 2	(MHz)	Level (dBuV/m)			Height (m)	Angle (Degree)	Value (dBuV)	Factor (dB/m)	
1	(MHz) *2462.00	Level (dBuV/m) 113.1 PK			Height (m) 2.40 V	Angle (Degree)	Value (dBuV) 79.0	Factor (dB/m) 34.1	
1 2	*2462.00 *2462.00	Level (dBuV/m) 113.1 PK 104.0 AV	(dBuV/m)	(dB)	Height (m) 2.40 V 2.40 V	Angle (Degree) 182 182	Value (dBuV) 79.0 69.9	Factor (dB/m) 34.1 34.1	
1 2 3	*2462.00 *2462.00 2483.50	Level (dBuV/m) 113.1 PK 104.0 AV 65.7 PK	(dBuV/m) 74.0	(dB) -8.3	Height (m) 2.40 V 2.40 V 2.40 V	Angle (Degree) 182 182 182	Value (dBuV) 79.0 69.9 31.6	Factor (dB/m) 34.1 34.1 34.1	

Remarks:

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

Limit

- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value

Emission

Level

Frequency

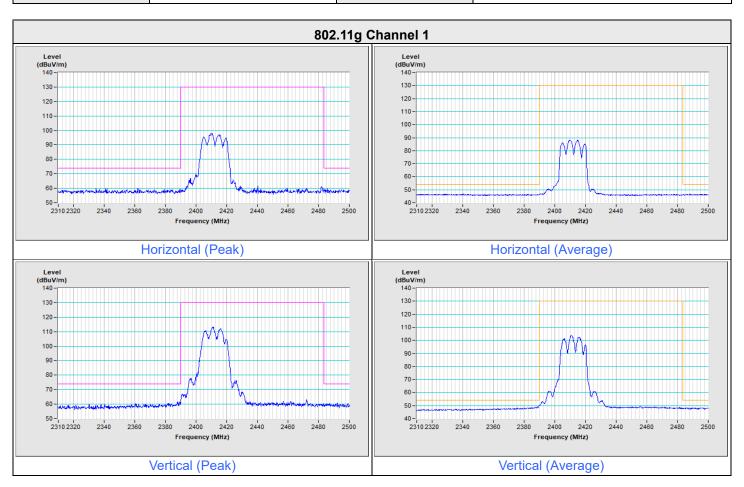
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

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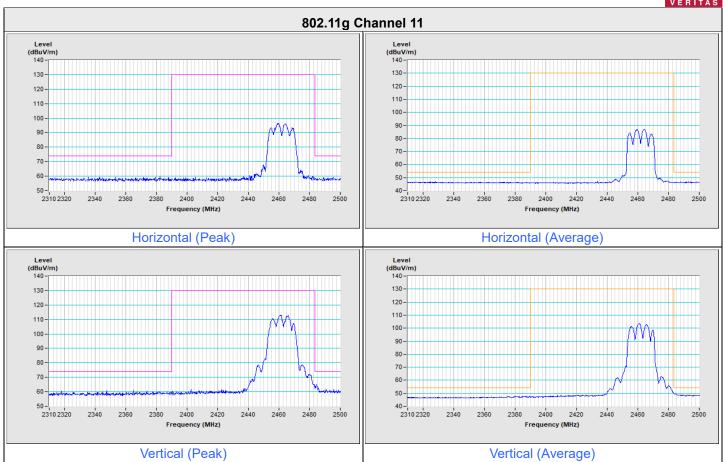


Plot of Band Edge

Frequency Range 2.31 GHz ~ 2.5 GHz Detector Function & PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak







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8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

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9 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.

Hsin Chu EMC/RF/Telecom Lab

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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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