

TEST REPORT

CERTIFICATE OF CONFORMITY

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

47 CFR FCC Part 15, Subpart E (Section 15.407)

47 CFR FCC Part 27 47 CFR FCC Part 2

Report No.: RFBCIC-WTW-P24100659A-2

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: 2025/1/10 **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:	Jeremy Lin	, Date:	2025/2/19	
Approvea by:	October	, 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-2	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: 2025/1/10

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

47 CFR FCC Part 15, Subpart E (Section 15.407)

47 CFR FCC Part 27 47 CFR FCC Part 2

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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Summary of Test Results 2

Standard / Clause	Test Item	Result	Remark
15.205 /15.209 /15.247(d) 15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Meet the requirement of limit.
Part 2.1053 Part 27.53(m)	Radiated Spurious Emissions below 1GHz	Pass	Meet the requirement of limit.
15.205 /15.209 /15.247(d) 15.407(b) (1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Meet the requirement of limit.
Part 2.1053 Part 27.53(m)	Radiated Spurious Emissions above 1GHz	Pass	Meet the requirement of limit.

Note: 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:

Parameter	Specification	Uncertainty (±)	
Dediated Courieus Emissions heless 1011-	9 kHz ~ 30 MHz	3.59 dB	
Radiated Spurious Emissions below 1GHz	30 MHz ~ 1 GHz	3.6 dB	
Redicted Spurious Emissions above 1047	1 GHz ~ 18 GHz	2.29 dB	
Radiated Spurious Emissions above 1GHz	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.

Supplementary Information 2.2

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 of EUT

Product	Peplink P	epwave Wireless Product				
Brand	peplink PEPWAVE					
Test Model	MAX BR1	Mini				
Series Model	MAX-BR1 Rugged, A	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				
Model Difference	Refer to N	lote as below				
Modulation Technology	WLAN	DSSS, OFDM The EUT has three certified WWAN modules source. WWAN_1 Model name: EM7411 WWAN_2 Model name: EC25-AFXD WWAN_3 Model name: RM520N-GL (For detailed information about WWAN, please refer to FCC ID: N7NEM74B & FCC ID: XMR202008EC25AFXD & FCC ID: XMR2022RM520NGL).				
Operating Frequency	WLAN	2412 ~ 2462 MHz 5180 ~ 5240 MHz 5745 ~ 5825 MHz The EUT has three certified WWAN modules source. WWAN_1 Model name: EM7411 WWAN_2 Model name: EC25-AFXD WWAN_3				
Notes		Model name: RM520N-GL (For detailed information about WWAN, please refer to FCC ID: N7NEM74B & FCC ID: XMR202008EC25AFXD & FCC ID: XMR2022RM520NGL).				

Note:

- 1. This report is issued as a supplementary report to BV CPS report no.: RFBCIC-WTW-P24100659-2 R1. The differences compared with original report are listed as below. Therefore, the EUT is re-tested in this 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.

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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 & GF 3 leature)	
peplink PEPWAVE	MAX-BR1-MINI-LTEA-US-DC-T-PRM		
pepiink PEP WAVE	AP One Rugged	For marketing purpose	
	APO-AC-RUG	(without Cellular & GPS feature)	
	MAX BR1 Mini 5G	For model of the control of	
	MAX-BR1-MINI-5GN-T-PRM	For marketing purpose (without GPS feature)	
	MAX-BR1-MINI-5GN-DC-T-PRM	(without GF3 leature)	

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	5GNR (WWAN module: RM520N-GL)			
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.						

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

The WLAN antenna information of EUT 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 (Newly)	0/1	WIESON	ARY121-1976- 001-00	2.25 2.55 3.36	2.4 GHz ~ 2.4835 GHz 5.15 GHz ~ 5.25 GHz 5.725 GHz ~ 5.85 GHz	Omni-	RP-SMA
WiFi_1-1 / WiFi_1-2 (Original)	0/1	YUAN CHEN	ACA-0040-6G1A1- A10	3.15 3.29 4.76	2.4 GHz ~ 2.4835 GHz 5.15 GHz ~ 5.25 GHz 5.725 GHz ~ 5.85 GHz	Omni- directional	RP-SMA

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

2. The WWAN antenna information and evaluations regarding the certification modules contained by the EUT are primarily based on the manufacturer provided

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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 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. 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. 2. 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. 3. 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. 4. 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	Combination	Mode	Tested Channel	
Unwanted Emissions below 1 GHz	Α	4	802.11g	6	
Unwanted Emissions below 1 GHZ	A	ı	802.11a	36	
Radiated Spurious Emissions below 1GHz	А	1	5G NR FR1 n41 40MHz 1RB SCS 30kHz	534000	
Unwanted Emissions above 1 GHz	Α	1	802.11g	6	
Onwanted Emissions above 1 GHZ	A		802.11a	36	
Radiated Spurious Emissions above 1GHz	Α	1	5G NR FR1 n41 40MHz 1RB SCS 30kHz	534000	
		EUT with WWAN module : RM520N-GL with the below antennas: WiFi antennas: ACA-0040-6G1A1-A10			
EUT Configure Mode:	Α				
Cornigule wode.	A				
		WWAN antennas: DAM-D13-S1-N0-000-08-20			

Note:

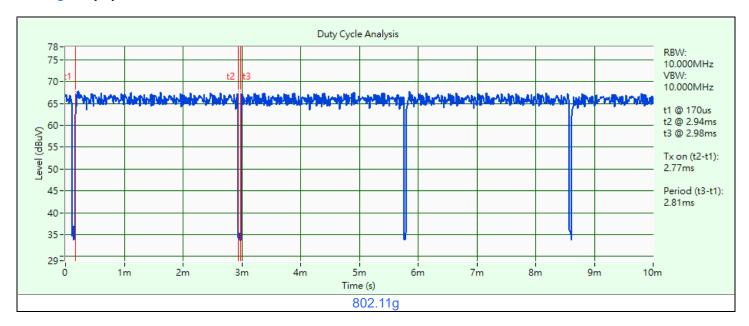
- 1. The above evaluation models and related information are based on the original WiFi certification report and the information provided by the manufacturer.
- 2. After evaluation, the WiFi/WWAN antennas was used with the highest gain as the representative antenna for testing.
- 3. The above EUT worst configuration conditions are referenced to the original case BCIC-WTW-P24100659.

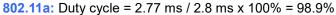
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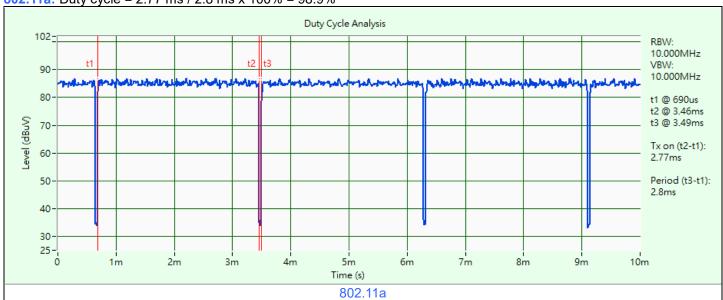


3.4 Duty Cycle of Test Signal

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





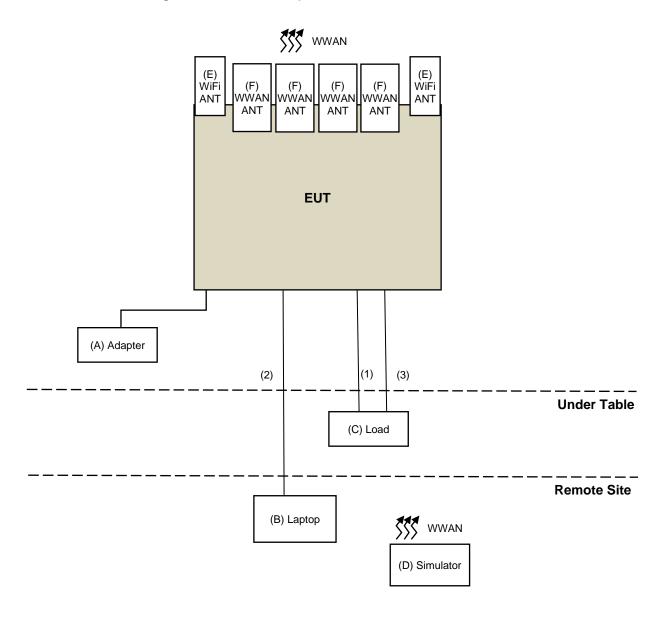




3.5 Test Program Used and Operation Descriptions

Controlling software WWAN: EUT link Simulator, WIFI: iperf has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.6 Connection Diagram of EUT and Peripheral Devices



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3.7 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks	
Α	Adapter	LEI	MU24D1120200-A1	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	Simulator	Anritsu	MT8000	N/A	N/A	Provided by Lab	
Е	WIFI ANT	YUAN CHEN	ACA-0040-6G1A1-A10	N/A	N/A	Supplied by applicant	
F	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.

Unwanted Emissions below 1 GHz 4.1

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

Radiated Spurious Emissions below 1GHz 4.2

Refer to section 4.1 to get the tested date and information of the instruments.

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4.3 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: 2025/1/10

4.4 Radiated Spurious Emissions above 1GHz

Refer to section 4.3 to get the tested date and information of the instruments.

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5 **Limits of Test Items**

5.1 **Unwanted Emissions below 1 GHz**

For FCC 15.247:

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:

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

For FCC 15.407:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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

Notes:

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

5.2 Radiated Spurious Emissions below 1GHz

For NR n41 SCS 30 kHz:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least 55 + 10 log (P) dB. The emission limit equal to -25 dBm.

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5.3 Unwanted Emissions above 1 GHz

For FCC 15.247:

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.

For FCC 15.407 transmitters operating in the 5.150-5.850 GHz band:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	
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.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit		
789033 D02 General UNII Test Procedure New Rules	Field Strer	ngth at 3 m	
v02r01	PK: 74 (dBµV/m)	AV: 54 (dBμV/m)	

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m) *
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m) *
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m) *
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8 (dBμV/m) *3 PK: 122.2 (dBμV/m) *4

^{*1} beyond 75 MHz or more above of the band edge.

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

E =
$$\frac{1000000\sqrt{30P}}{2}$$
 µV/m, where P is the eirp (Watts).

5.4 Radiated Spurious Emissions above 1GHz

For NR n41 SCS 30 kHz:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least 55 + 10 log (P) dB. The emission limit equal to – 25 dBm.

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^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

 $^{^{*3}}$ below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

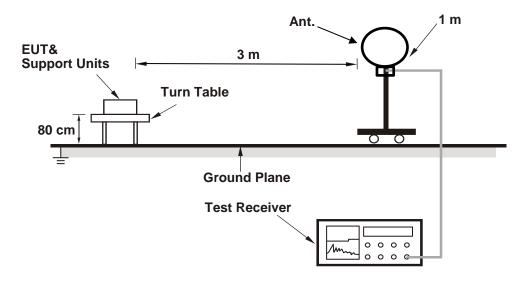


6 Test Arrangements

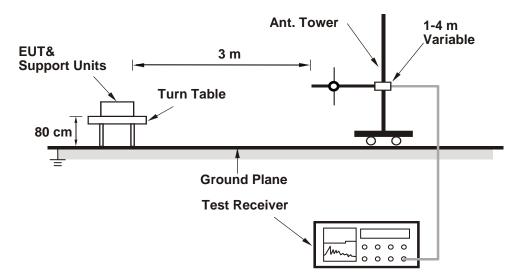
6.1 Unwanted Emissions below 1 GHz

6.1.1 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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6.1.2 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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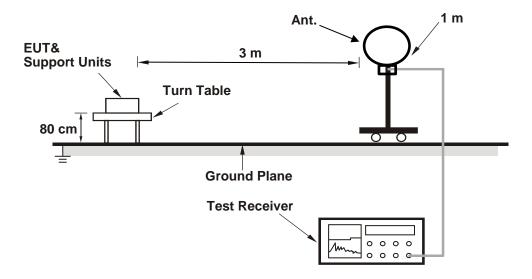
Reference No.: BCIC-WTW-P24120992



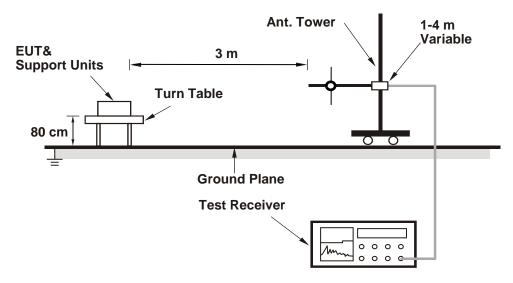
6.2 Radiated Spurious Emissions below 1GHz

6.2.1 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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6.2.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. 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.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following ANSI C63.26 section 5.5 and 5.2.7
- e. EIRP (dBm) = E (dB μ V/m) + 20log(D) 104.8; where D is the measurement distance (in the far field region) in m.
- f. ERP (dBm) = E (dB μ V/m) + 20log(D) 104.8 2.15; where D is the measurement distance (in the far field region) in m.

Note:

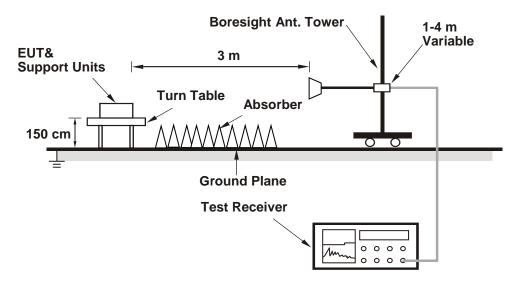
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
- 2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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6.3 Unwanted Emissions above 1 GHz

6.3.1 Test Setup



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

6.3.2 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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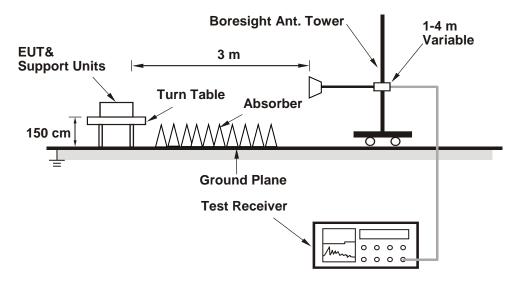
Reference No.: BCIC-WTW-P24120992



6.4 Radiated Spurious Emissions above 1GHz

6.4.1 Test Setup

For radiated emission above 1 GHz



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

6.4.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- a. In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. 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.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following ANSI C63.26 section 5.5 and 5.2.7
- e. EIRP (dBm) = E (dBμV/m) + 20log(D) 104.8; where D is the measurement distance (in the far field region) in m.
- f. ERP (dBm) = E (dBμV/m) + 20log(D) 104.8 2.15; where D is the measurement distance (in the far field region) in m

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

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7 Test Results of Test Item

7.1 Unwanted Emissions below 1 GHz

Mode A

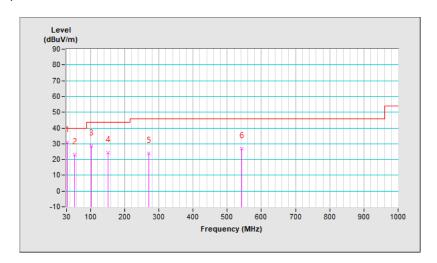
FCC 15.247 & FCC 15.407

Combination	1		
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	30.8 QP	40.0	-9.2	1.50 H	341	41.1	-10.3
2	54.25	23.0 QP	40.0	-17.0	1.00 H	56	32.0	-9.0
3	101.78	28.8 QP	43.5	-14.7	1.00 H	256	41.5	-12.7
4	151.25	24.5 QP	43.5	-19.0	2.00 H	47	32.8	-8.3
5	269.59	23.8 QP	46.0	-22.2	1.50 H	120	31.4	-7.6
6	542.16	26.8 QP	46.0	-19.2	1.00 H	147	29.1	-2.3

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. 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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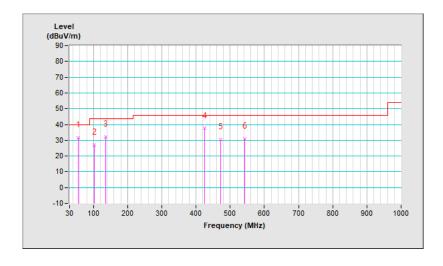


			VERITAS
Combination	1		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

	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	56.19	31.6 QP	40.0	-8.4	1.99 V	151	40.6	-9.0			
2	101.78	27.1 QP	43.5	-16.4	1.00 V	265	39.8	-12.7			
3	135.73	32.1 QP	43.5	-11.4	1.00 V	231	41.2	-9.1			
4	425.76	37.4 QP	46.0	-8.6	1.49 V	179	41.7	-4.3			
5	471.35	30.4 QP	46.0	-15.6	1.00 V	275	33.8	-3.4			
6	543.13	30.6 QP	46.0	-15.4	1.49 V	170	32.9	-2.3			

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. 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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7.2 Radiated Spurious Emissions below 1GHz

Mode A

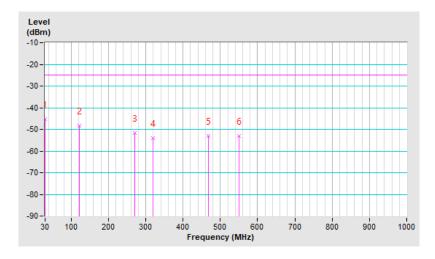
FCC Part 27

Combination	1		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
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)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	30.97	-45.23	-25.00	-20.23	1.00 H	6	60.70	-105.93		
2	121.18	-48.15	-25.00	-23.15	1.50 H	259	57.80	-105.95		
3	269.59	-51.61	-25.00	-26.61	1.00 H	138	51.39	-103.00		
4	320.03	-54.19	-25.00	-29.19	1.00 H	211	47.23	-101.42		
5	467.47	-53.00	-25.00	-28.00	2.00 H	297	45.84	-98.84		
6	550.89	-53.14	-25.00	-28.14	1.50 H	136	44.46	-97.60		

Remarks:

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP 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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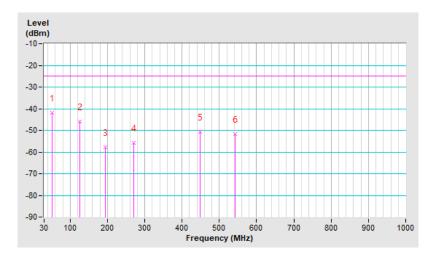
Combination	1		VERITAS
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67 % RH
Tested By	Adair Peng		

	Antenna Polarity & Test Distance : Vertical at 3 m									
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	52.31	-41.99	-25.00	-16.99	1.50 V	45	62.32	-104.31		
2	125.06	-45.91	-25.00	-20.91	1.00 V	359	59.59	-105.50		
3	194.9	-57.70	-25.00	-32.70	1.50 V	148	48.71	-106.41		
4	270.56	-55.91	-25.00	-30.91	1.50 V	299	47.03	-102.94		
5	448.07	-50.68	-25.00	-25.68	1.00 V	75	48.45	-99.13		
6	543.13	-51.71	-25.00	-26.71	1.50 V	183	46.02	-97.73		

Remarks:

- 1. EIRP(dBm) = 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 = EIRP Limit value
- 4. The other EIRP 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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7.3 **Unwanted Emissions above 1 GHz**

Mode A

FCC 15.247

Combination	1		
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	59.8 PK	74.0	-14.2	1.20 H	221	25.7	34.1		
2	2390	46.5 AV	54.0	-7.5	1.20 H	221	12.4	34.1		
3	*2437	101.6 PK			1.20 H	221	67.6	34.0		
4	*2437	92.7 AV			1.20 H	221	58.7	34.0		
5	2483.5	59.9 PK	74.0	-14.1	1.20 H	221	25.8	34.1		
6	2483.5	48.2 AV	54.0	-5.8	1.20 H	221	14.1	34.1		
7	4874	50.5 PK	74.0	-23.5	1.75 H	152	40.0	10.5		
8	4874	37.1 AV	54.0	-16.9	1.75 H	152	26.6	10.5		
			Antenna Pola	rity & Test Di	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	60.1 PK	74.0	-13.9	2.88 V	191	26.0	34.1		
2	2390	48.1 AV	54.0	-5.9	2.88 V	191	14.0	34.1		
3	*2437	117.2 PK			2.88 V	191	83.2	34.0		
4	*2437	107.6 AV			2.88 V	191	73.6	34.0		
5	2483.5	61.3 PK	74.0	-12.7	2.88 V	191	27.2	34.1		
6	2483.5	49.7 AV	54.0	-4.3	2.88 V	191	15.6	34.1		
7	4874	51.0 PK	74.0	-23.0	2.45 V	293	40.5	10.5		
8	4874	38.5 AV	54.0	-15.5	2.45 V	293	28.0	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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FCC 15.407

Combination	1			
	•		_	
Frequency Range	 1 GHz ~ 40 GHz	Detector Function &	PK: RB=1 MHz, VB=3 MHz, DET=Peak	
Frequency Kange	1 GHZ ~ 40 GHZ	Bandwidth	AV: RB=1 MHz, VB=10 Hz, DET=Peak	
Input Power	120 Vac, 60 Hz	Environmental	23 °C, 67 % RH	
iliput Fowei	120 Vac, 00 112	Conditions	25 0, 07 70 1011	
Tested By	Adair Peng			

		Δ	ntonna Polarit	ty & Tost Dist	ance : Horizoi	ntal 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	5150	60.7 PK	74.0	-13.3	2.46 H	59	39.0	21.7
2	5150	46.9 AV	54.0	-7.1	2.46 H	59	25.2	21.7
3	*5180	103.0 PK			2.46 H	59	61.0	42.0
4	*5180	93.1 AV			2.46 H	59	51.1	42.0
5	#10360	63.2 PK	68.2	-5.0	1.92 H	142	38.8	24.4
			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	5150	68.0 PK	74.0	-6.0	2.87 V	226	46.3	21.7
2	5150	51.8 AV	54.0	-2.2	2.87 V	226	30.1	21.7
3	*5180	118.4 PK			2.87 V	226	76.4	42.0
4	*5180	109.1 AV			2.87 V	226	67.1	42.0
5	#10360	63.9 PK	68.2	-4.3	2.09 V	177	39.5	24.4

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. 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.
- 6. " # ": The radiated frequency is out of the restricted band.

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7.4 Radiated Spurious Emissions above 1GHz

Mode A

FCC Part 27

Combination	1		
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
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)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	5340	-47.57	-25.00	-22.57	1.87 H	325	42.22	-89.79		
			Antenna Pola	rity & Test Dis	tance : Vertic	al at 3 m				
No	Frequency FIRP Limit Margin Antenna Table Raw Correction									
1	5340	-46.88	-25.00	-21.88	2.46 V	152	42.91	-89.79		

Remarks:

- 1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB) + 20log(D) 104.8
- 3. Margin value = EIRP Limit value
- 4. The other EIRP levels were very low against the limit.

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8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

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Report Format Version: 7.1.0

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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180 Fax: 886-2-26051924

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <u>service.adt@bureauveritas.com</u> **Web Site:** <u>http://ee.bureauveritas.com.tw</u>

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

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