

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEIH-WTW-P24070284-2

FCC ID: P27XER10

Product: Comcast Xfinity WiFi 7 Tri-band Router

Brand: Comcast, Rogers, Cox, Sky

Model No.: XER10

Series Model: XER10xxxxxxxx, SCER11BELxxxxxxxxxx (the 1st x should be "blank" or "-"; the rest x

could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

Received Date: 2024/7/10

Test Date: 2024/8/1 ~ 2025/2/21

Issued Date: 2025/3/5

Applicant: Sercomm Corporation

Address: 8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.

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

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan **Test Location:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

FCC Registration / 198487 / TW2021

Designation Number:

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Prepared by : Annie Chang / Senior Specialist

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3	Power Spectral Density 6 dB Bandwidth Conducted Out of Band Emissions AC Power Conducted Emissions Unwanted Emissions below 1 GHz Unwanted Emissions above 1 GHz



Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P24070284-2	Original release.	2025/3/5

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1 Certificate

Product: Comcast Xfinity WiFi 7 Tri-band Router

Brand: Comcast, Rogers, Cox, Sky

Test Model: XER10

Series Model: XER10xxxxxxxx, SCER11BELxxxxxxxxxx (the 1st x should be "blank" or "-"; the rest x could

be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

Sample Status: Engineering sample

Applicant: Sercomm Corporation

Test Date: 2024/8/1 ~ 2025/2/21

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

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	Pass	Meet the requirement of limit.		
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.		
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.		
15.207	AC Power Conducted Emissions	Pass	Minimum passing margin is -4.44 dB at 0.15391 MHz		
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -11.8 dB at 44.99 MHz		
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -6.2 dB at 2483.50 MHz		
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.		

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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)	
RF Output Power	-	1.1 dB	
Power Spectral Density	-	1.3 dB	
6 dB Bandwidth	-	960 Hz	
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.7 dB	
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB	
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.85 dB	
Onwanted Emissions below 1 GHZ	30 MHz ~ 1 GHz	5.7 dB	
	1 GHz ~ 6 GHz	3.06 dB	
Unwanted Emissions above 1 GHz	6 GHz ~ 18 GHz	3.06 dB	
	18 GHz ~ 40 GHz	3.29 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	Comcast Xfinity WiFi 7 Tri-band Router
Brand	Comcast, Rogers, Cox, Sky
Test Model XER10	
Series Model	XER10xxxxxxxx, SCER11BELxxxxxxxxxx (the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)
Model Difference	Marketing Differentiation
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	O-QPSK
Transfer Rate	250Kbps
Operating Frequency	2.405 GHz ~ 2.475 GHz
Number of Channel	15
Output Power	82.985 mW (19.19 dBm)

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	LEADER	ML55-3120460-A1	AC I/P: 100-120V, 50/60Hz, 1.5A DC O/P: 12.0V, 4.6A Non-shielded DC cable (1.8m)
AC Adapter 2 Netbit		NBC56B120460VU	AC I/P: 120V, 60Hz, 1.5A DC O/P: 12.0V, 4.6A Non-shielded DC cable (1.8m)

^{2.} There are Bluetooth, Zigbee, Matter and WLAN (2.4 GHz & 5 GH & 6 GHz) technology used for the EUT.

3. Simultaneously transmission combination.

Combination	Technology					
1	WLAN (2.4 GHz)	WLAN (5 GHz)	WLAN (6 GHz)			
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found						

^{4.} The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

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3.2 Antenna Description of EUT

The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type	
9	ZigBee1	Sercomm	6172003YWA	4	2.4~2.5	Dipole	ipex(MHF)	
10	ZigBee2	Sercomm	6172003ZWA	4.3	2.4~2.5	Dipole	ipex(MHF)	
Note: The maximum gain was chosen for test.								

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

3.3 Channel List

15 channels are provided to this EUT:

Channel	Frequency	Channel	Frequency
11	2405MHz	19	2445MHz
12	2410MHz	20	2450MHz
13	2415MHz	21	2455MHz
14	2420MHz	22	2460MHz
15	2425MHz	23	2465MHz
16	2430MHz	24	2470MHz
17	2435MHz	25	2475MHz
18	2440MHz		

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3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT has Adapter1(LEADER)/ Adapter2(Netbit). Pre-scan these adapter and find the worst case as a representative test condition. 2. For module's setting is Diversity. Pre-scan Chain0/ Chain1 and find the worst case as a representative test condition.
Worst Case:	Adapter1(LEADER)/ Adapter2(Netbit) Worst Condition: Adapter1(LEADER). Chain0/ Chain1 Worst Condition: Chain1 is the worse case.

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	Zigbee	11, 18, 25	O-QPSK	250kb/s
Power Spectral Density	Zigbee	11, 18, 25	O-QPSK	250kb/s
6 dB Bandwidth / Conducted Out of Band Emissions	Zigbee	11, 18, 25	O-QPSK	250kb/s
AC Power Conducted Emissions	Zigbee	25	O-QPSK	250kb/s
Unwanted Emissions below 1 GHz	Zigbee	25	O-QPSK	250kb/s
Unwanted Emissions above 1 GHz	Zigbee	11, 18, 25	O-QPSK	250kb/s

3.5 Duty Cycle of Test Signal



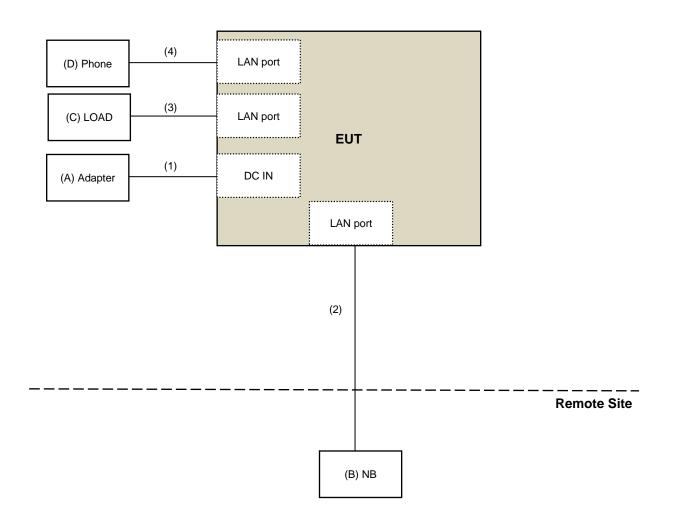
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3.6 Test Program Used and Operation Descriptions

Controlling software (accessMTool 3.3.0.8) 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	Adapter	LEADER	ML55-3120460-A1	N/A	N/A	Supplied by applicant
В	NB	DELL	LA65NS2-01	N/A	N/A	Provided by Lab
С	LOAD	BV	BV	N/A	N/A	Provided by Lab
D	Phone	ISit0	IS-333	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC cable	1	1.8	N	0	Supplied by applicant
2	LAN cable	1	10	N	0	Provided by Lab
3	LAN cable	4	1.5	N	0	Provided by Lab
4	LAN cable	1	2.17	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
Pulse Power Sensor Anritsu	MA2411B	0738404	2024/5/13	2025/5/12
RF Power Meter Anritsu	ML2495A	0842014	2024/5/13	2025/5/12
USB Wideband Power Sensor Keysight	U2021XA	U2021XA_001	2024/6/7	2025/6/6

Notes:

1. The test was performed in LK - Oven

2. Tested Date: 2025/2/21

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16
Signal Analyzer R&S	FSV40	101042	2023/9/5	2024/9/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven

2. Tested Date: 2024/8/1

4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

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AC Power Conducted Emissions 4.5

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	0000540	E1-011285	2023/9/21	2024/9/20
LYNICS	0900510	E1-011286	2023/9/21	2024/9/20
50 ohm terminal resistance SUHNER	65BNC-5001	E1-010789	2024/6/20	2025/6/19
EMI Test Receiver	ESCI	100412	2023/8/23	2024/8/22
R&S	ESCS 30	100288	2023/12/28	2024/12/27
Fixed Attenuator STI	STI02-2200-10	NO.1	2023/9/13	2024/9/12
LISN	ENIVO46	100024	2023/9/6	2024/9/5
R&S	ENV216	101197	2024/7/11	2025/7/10
		8121-731	2024/6/12	2025/6/11
LISN	NNLK 8121	8121-00759	2023/8/21	2024/8/20
Schwarzbeck		8121-808	2024/4/26	2025/4/25
	NNLK 8129	8129229	2024/6/14	2025/6/13
RF Coaxial Cable PEWC	5D-FB	Cable-CO10-01	2024/2/7	2025/2/6
Software BVADT	Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

The test was performed in Linkou Conduction 10.
 Tested Date: 2024/8/10

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Unwanted Emissions below 1 GHz 4.6

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2023/10/13	2024/10/12
Coupling / Decoupling Network	CDNE-M2	00097	2024/5/28	2025/5/27
Schwarzbeck	CDNE-M3	00091	2024/5/28	2025/5/27
Loop Antenna TESEQ	HLA 6121	64095	2023/9/23	2024/9/22
MXE EMI Receiver Agilent	N9038A	MY51210129	2024/3/22	2025/3/21
Preamplifier Agilent	8447D	2944A11064	2024/2/15	2025/2/14
Preamplifier EMCI	EMC001340	980269	2024/6/25	2025/6/24
RF Coaxial Cable Pacific	8D-FB	Cable-CH6-02	2024/6/25	2025/6/24
Signal Analyzer R&S	FSV40	101544	2024/6/20	2025/6/19
Software BVADT	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

The test was performed in Linkou 966 Chamber 6 (CH 6).
 Tested Date: 2024/8/30

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4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright	WHK 3.1/18G-10SS	SN 8	2024/5/24	2025/5/23
Horn Antenna EMCO	3115	00028257	2023/11/12	2024/11/11
Horn Antenna ETS-Lindgren	3117-PA	00215857	2023/11/12	2024/11/11
Horn Antenna	BBHA 9170	212	2023/10/16	2024/10/15
Schwarzbeck	DDNA 9170	BBHA9170241	2023/10/16	2024/10/15
MXE EMI Receiver Agilent	N9038A	MY51210129	2024/3/22	2025/3/21
Notch Filter	BRC50703-01	010	2024/5/24	2025/5/23
Micro-Tronics	BRM17690	005	2024/5/24	2025/5/23
Preamplifier EMCI	EMC0126545	980076	2024/2/15	2025/2/14
	EMC184045B	980175	2023/9/2	2024/9/1
	EWIC 104043B	980235	2024/2/15	2025/2/14
Preamplifier HP	8449B	3008A01201	2024/2/15	2025/2/14
RF Coaxial Cable	EMC404	190801	2024/7/5	2025/7/4
EMCI	EMC104	190804	2024/7/5	2025/7/4
RF Coaxial Cable EMEC	EM102-KMKM-100	02	2024/7/5	2025/7/4
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2024/7/5	2025/7/4
Signal Analyzer	F0\/40	101042	2023/9/5	2024/9/4
R&S	FSV40	101544	2024/6/20	2025/6/19
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

- 1. The test was performed in Linkou 966 Chamber 6 (CH 6).
- 2. Tested Date: 2024/8/14 ~ 2024/8/15

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5 Limits of Test Items

5.1 RF Output Power

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

5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

5.5 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)		
Frequency (Miriz)	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.

5.6 Unwanted Emissions below 1 GHz

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 20 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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5.7 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 20 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.

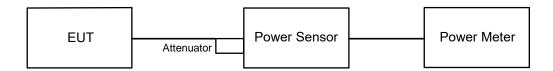
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6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



6.1.2 Test Procedure

Peak Power:

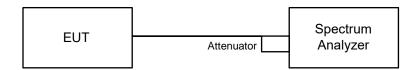
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average Power:

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 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: 3 kHz.
- d. Set the VBW ≥ 3 × RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

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6.3 6 dB Bandwidth

6.3.1 Test Setup



6.3.2 Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz.
- b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Conducted Out of Band Emissions

6.4.1 Test Setup



6.4.2 Test Procedure

MEASUREMENT PROCEDURE REF

- a. Set the RBW = 100 kHz.
- b. Set the VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep time = auto couple.
- e. Trace mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

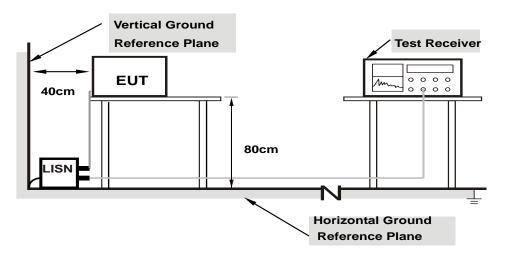
- a. Set RBW = 100 kHz.
- b. Set VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep = auto couple.
- e. Trace Mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum amplitude level.

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6.5 AC Power Conducted Emissions

6.5.1 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).

6.5.2 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.

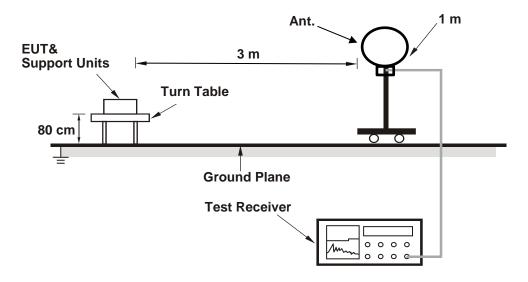
Report No.: RFBEIH-WTW-P24070284-2 Page No. 19 / 37 Report Format Version: 7.1.0 Reference No.: BEIH-WTW-P24070284



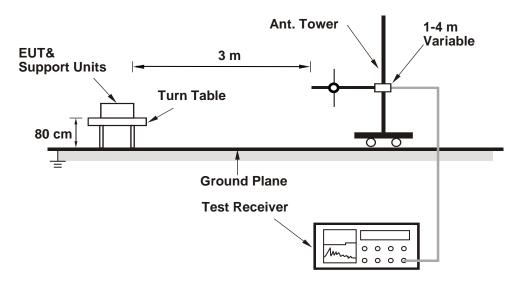
6.6 Unwanted Emissions below 1 GHz

6.6.1 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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6.6.2 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:

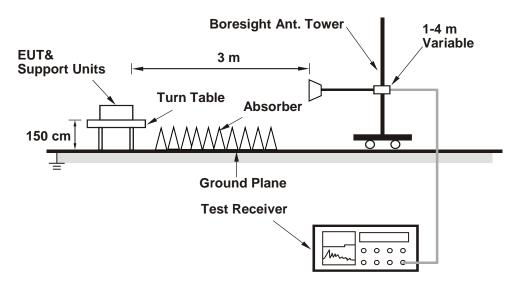
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

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6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 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/spectrum analyzer 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 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, 76% RH	Tested By:	Waydi Tuan
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For Peak Power

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
11	2405	76.033	18.81	30	Pass
18	2440	79.068	18.98	30	Pass
25	2475	82.985	19.19	30	Pass

Note: The antenna gain is 4.3 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
11	2405	75.683	18.79
18	2440	78.886	18.97
25	2475	82.604	19.17

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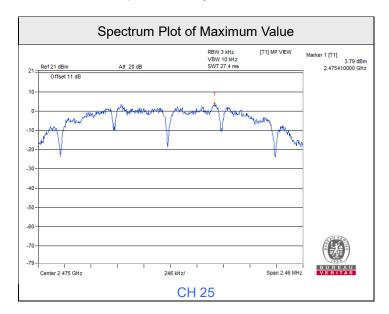


7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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Channel	Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
11	2405	2.67	8	Pass
18	2440	3.01	8	Pass
25	2475	3.79	8	Pass

Note: The antenna gain is 4.3 dBi < 6 dBi, so the power density limit shall not be reduced.

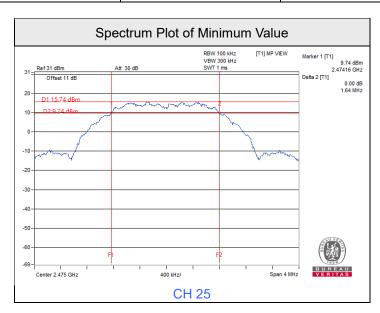




7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Waydi Tuan
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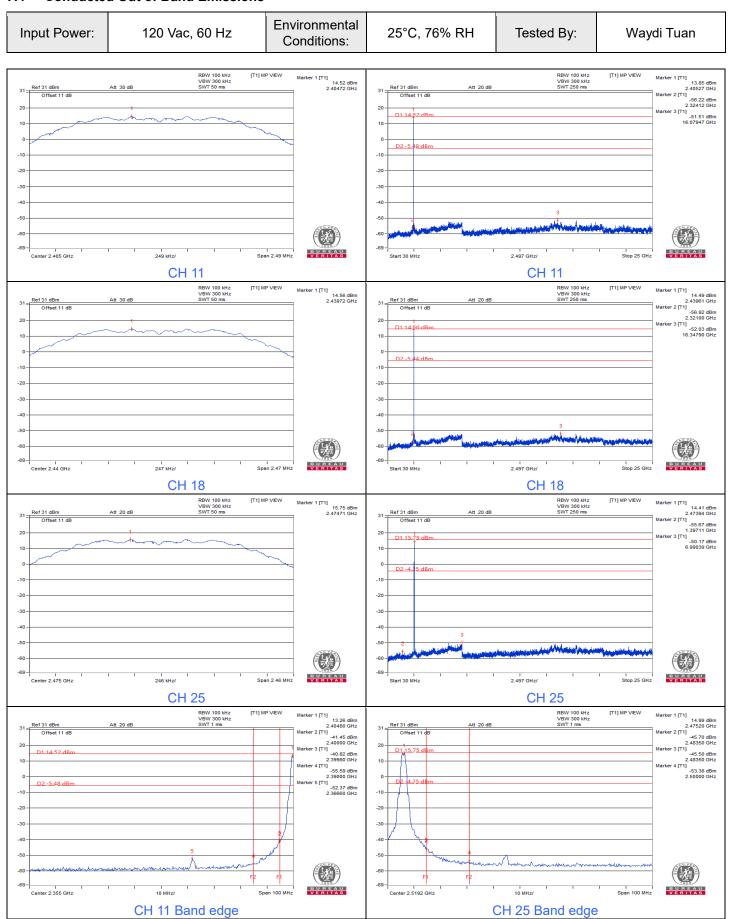
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
11	2405	1.66	0.5	Pass
18	2440	1.65	0.5	Pass
25	2475	1.64	0.5	Pass



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7.4 Conducted Out of Band Emissions





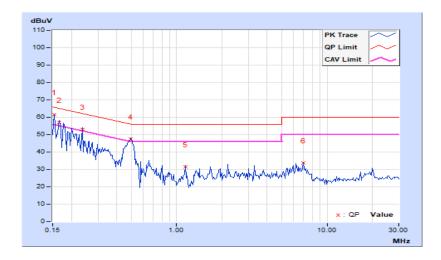
7.5 AC Power Conducted Emissions

RF Mode	Zigbee	Channel	CH 25: 2475 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	25 °C, 75 % RH
Tested By	Jed Wu		

	Phase Of Power : Line (L)										
No	Frequency	Correction Factor		Reading Value (dBuV)		n Level uV)		nit uV)	Maı (d	gin B)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15391	9.64	51.71	33.61	61.35	43.25	65.79	55.79	-4.44	-12.54	
2	0.16562	9.64	47.26	34.31	56.90	43.95	65.18	55.18	-8.28	-11.23	
3	0.23594	9.63	43.48	27.59	53.11	37.22	62.24	52.24	-9.13	-15.02	
4	0.49766	9.64	37.93	31.75	47.57	41.39	56.04	46.04	-8.47	-4.65	
5	1.15234	9.66	21.79	14.60	31.45	24.26	56.00	46.00	-24.55	-21.74	
6	6.98438	9.94	23.83	14.39	33.77	24.33	60.00	50.00	-26.23	-25.67	

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	Zigbee	Channel	CH 25: 2475 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	25 °C, 75 % RH
Tested By	Jed Wu		

	Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor					Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15000	9.63	50.37	30.82	60.00	40.45	66.00	56.00	-6.00	-15.55	
2	0.16172	9.63	49.22	34.64	58.85	44.27	65.38	55.38	-6.53	-11.11	
3	0.18906	9.61	44.44	30.83	54.05	40.44	64.08	54.08	-10.03	-13.64	
4	0.95469	9.66	28.50	20.99	38.16	30.65	56.00	46.00	-17.84	-15.35	
5	1.38672	9.67	25.41	14.76	35.08	24.43	56.00	46.00	-20.92	-21.57	
6	6.48828	9.90	24.93	17.79	34.83	27.69	60.00	50.00	-25.17	-22.31	

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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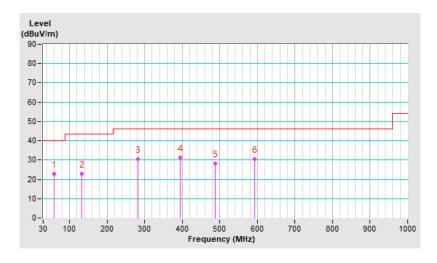
7.6 Unwanted Emissions below 1 GHz

RF Mode	Zigbee	Channel	CH 25: 2475 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75 % RH
Tested By	Jed Wu		

	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	59.20	23.0 QP	40.0	-17.0	1.93 H	127	31.9	-8.9			
2	132.82	22.9 QP	43.5	-20.6	1.58 H	255	31.7	-8.8			
3	282.20	30.6 QP	46.0	-15.4	1.47 H	255	36.4	-5.8			
4	395.01	31.3 QP	46.0	-14.7	1.24 H	245	34.6	-3.3			
5	487.06	28.1 QP	46.0	-17.9	1.03 H	267	29.2	-1.1			
6	592.89	30.4 QP	46.0	-15.6	1.20 H	112	28.9	1.5			

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 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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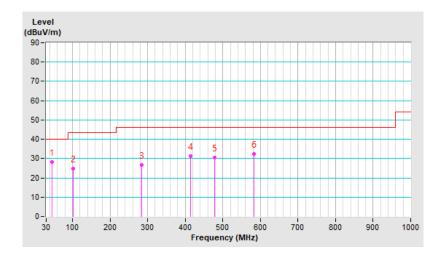


			VERITAS
RF Mode	Zigbee	Channel	CH 25: 2475 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75 % RH
Tested By	Jed Wu		

	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	44.99	28.2 QP	40.0	-11.8	1.08 V	109	36.9	-8.7
2	101.78	24.8 QP	43.5	-18.7	1.17 V	248	37.2	-12.4
3	283.70	26.6 QP	46.0	-19.4	1.28 V	159	32.3	-5.7
4	414.94	31.3 QP	46.0	-14.7	1.96 V	327	34.2	-2.9
5	477.36	30.5 QP	46.0	-15.5	1.53 V	114	31.7	-1.2
6	582.71	32.5 QP	46.0	-13.5	1.68 V	28	31.3	1.2

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. 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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7.7 Unwanted Emissions above 1 GHz

RF Mode	Zigbee	Channel	CH 11: 2405 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	23.7 °C, 72.3 % RH
Tested By	Jed Wu		

		A	ntenna Polari	ty & Test Dist	ance : Horizo	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	2390.00	56.4 PK	74.0	-17.6	4.00 H	301	56.8	-0.4
2	2390.00	43.9 AV	54.0	-10.1	4.00 H	301	44.3	-0.4
3	*2405.00	115.9 PK			4.00 H	301	116.3	-0.4
4	*2405.00	111.9 AV			4.00 H	301	112.3	-0.4
5	4810.00	49.6 PK	74.0	-24.4	3.46 H	287	41.7	7.9
6	4810.00	36.2 AV	54.0	-17.8	3.46 H	287	28.3	7.9
			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	2390.00	56.1 PK	74.0	-17.9	1.07 V	324	56.5	-0.4
2	2390.00	43.6 AV	54.0	-10.4	1.07 V	324	44.0	-0.4
3	*2405.00	108.9 PK			1.07 V	324	109.3	-0.4
4	*2405.00	104.9 AV			1.07 V	324	105.3	-0.4
5	4810.00	49.2 PK	74.0	-24.8	1.21 V	303	41.3	7.9
6	4810.00	35.8 AV	54.0	-18.2	1 21 V	303	27 9	7 9

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. 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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			VERTIAS
RF Mode	Zigbee	Channel	CH 18: 2440 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	23.7 °C, 72.3 % RH
Tested By	Jed Wu		

	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	*2440.00	116.5 PK			3.38 H	302	116.7	-0.2	
2	*2440.00	112.5 AV			3.38 H	302	112.7	-0.2	
3	4880.00	49.9 PK	74.0	-24.1	2.84 H	286	41.8	8.1	
4	4880.00	36.5 AV	54.0	-17.5	2.84 H	286	28.4	8.1	
			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	*2440.00	109.5 PK			1.69 V	323	109.7	-0.2	
2	*2440.00	105.5 AV			1.69 V	323	105.7	-0.2	
3	4880.00	49.5 PK	74.0	-24.5	1.83 V	304	41.4	8.1	
4	4880.00	36.1 AV	54.0	-17.9	1.83 V	304	28.0	8.1	

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.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

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Correction

			VERTIAS
RF Mode	Zigbee	Channel	CH 25 : 2475 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	23.7 °C, 72.3 % RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m

Margin

Antenna

Table

Raw

No	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Angle (Degree)	Value (dBuV)	Factor (dB/m)
1	*2475.00	116.0 PK			3.34 H	311	116.0	0.0
2	*2475.00	111.9 AV			3.34 H	311	111.9	0.0
3	2483.50	60.7 PK	74.0	-13.3	3.34 H	311	60.7	0.0
4	2483.50	47.8 AV	54.0	-6.2	3.34 H	311	47.8	0.0
5	4950.00	50.4 PK	74.0	-23.6	2.79 H	295	42.3	8.1
6	4950.00	37.0 AV	54.0	-17.0	2.79 H	295	28.9	8.1
	Antenna Polarity & Test Distance : Vertical at 3 m							
		Emission		Manain	Antenna	Table	Raw	Correction
No	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (m)	Angle (Degree)	Value (dBuV)	Factor (dB/m)
No		Level		_	, <u>, </u>			
No 1 2	(MHz)	Level (dBuV/m)		_	(m)	(Degree)	(dBuV)	(dB/m)
1	(MHz) *2475.00	Level (dBuV/m) 109.3 PK		_	(m) 1.64 V	(Degree) 170	(dBuV) 109.3	(dB/m) 0.0
1 2	(MHz) *2475.00 *2475.00	Level (dBuV/m) 109.3 PK 105.1 AV	(dBuV/m)	(dB)	(m) 1.64 V 1.64 V	(Degree) 170 170	(dBuV) 109.3 105.1	(dB/m) 0.0 0.0
1 2 3	*2475.00 *2475.00 2483.50	Level (dBuV/m) 109.3 PK 105.1 AV 58.2 PK	(dBuV/m) 74.0	(dB) -15.8	(m) 1.64 V 1.64 V 1.64 V	(Degree) 170 170 170	(dBuV) 109.3 105.1 58.2	(dB/m) 0.0 0.0 0.0

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

Frequency

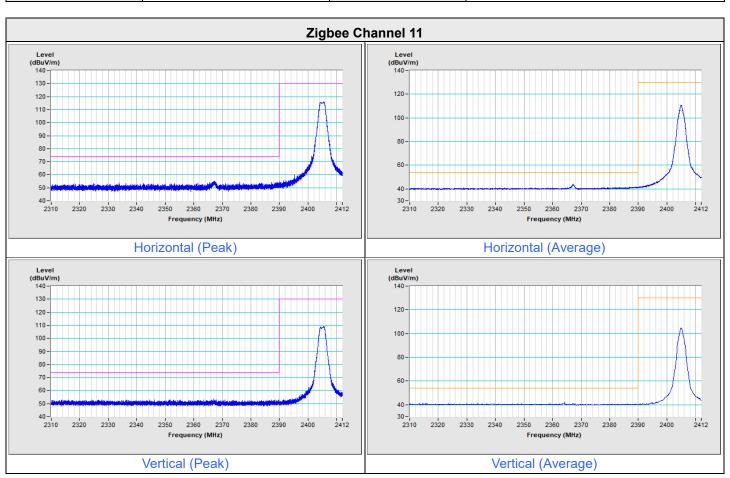
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

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Plot of Band Edge

Frequency Range 2.31 GHz ~ 2.412 GHz Detector Function & PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak



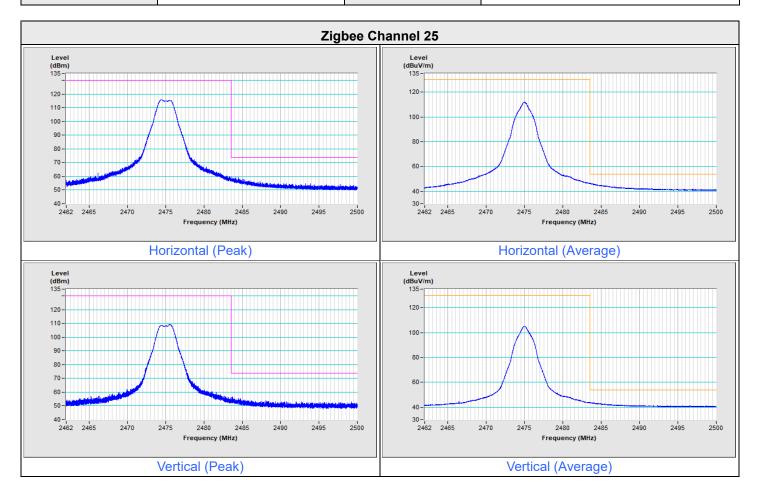


Frequency Range

2.462 GHz ~ 2.5 GHz

Detector Function & Bandwidth

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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