

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCUN-WTW-P21123242C-1 R1

FCC ID: H8NEAO2522P-2 Product: Outdoor WiFi6 AP

Brand: ASKEY

Model No.: EAO2522P-2-FCC

Received Date: 2021/12/27

Test Date: 2022/1/5 ~ 2022/1/11

Issued Date: 2024/7/9

Applicant: ASKEY COMPUTER CORP.

Address: 10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 23585, TAIWAN,

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

Lin Kou Laboratories

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Test Location(1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number(1):

Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / 281270 / TW0032

Designation Number(2):

Jeremy Lin Approved by: 2024/7/9

Jeremy Lin / Project Engineer

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Prepared by : Gina Liu / Specialist

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Report No.: RFBCUN-WTW-P21123242C-1 R1

Reference No.: BCUN-WTW-P24040550

Page No. 1 / 34



Table of Contents

Rel	eas	se Control Record	4
1	(Certificate	5
2	;	Summary of Test Results	6
2.	1	Measurement Uncertainty	
2.	2	Supplementary Information	6
3		General Information	7
3.	1	General Description	7
3.		Antenna Description of EUT	
3.		Channel List	
3. 3.		Test Mode Applicability and Tested Channel Detail	
3.		Test Program Used and Operation Descriptions	
3.		Connection Diagram of EUT and Peripheral Devices	
3.	8	Configuration of Peripheral Devices and Cable Connections	9
4		Test Instruments	10
4.	1	RF Output Power	10
4.		Power Spectral Density	
4.	.3	6 dB Bandwidth	
4.		Conducted Out of Band Emissions	
4.		AC Power Conducted Emissions	
4. 4.		Unwanted Emissions below 1 GHz Unwanted Emissions above 1 GHz	
5		Limits of Test Items	
5.		RF Output Power	
5. 5.		Power Spectral Density	
5. 5.		Conducted Out of Band Emissions	
5.		AC Power Conducted Emissions	
5.		Unwanted Emissions below 1 GHz	
5.	7	Unwanted Emissions above 1 GHz	14
6		Test Arrangements	15
6.	1	RF Output Power	15
6.	1.1	·	
_	1.2		
6.		Power Spectral Density	
	2.1 2.2	· ·	
6.		6 dB Bandwidth	
	3.1		
6.	3.2		
6.		Conducted Out of Band Emissions	
	4.1 4.2	· ·	
6.		2 Test Procedure	
	.5 .5.1		
	5.2	2 Test Procedure	17
6.		Unwanted Emissions below 1 GHz	
	6.1	· ·	
6. 6.	6.2	Procedure	
-	., 7.1		
_	7.2	·	



	VENTIAU
Test Results of Test Item	21
RF Output Power	21
Power Spectral Density	22
B 6 dB Bandwidth	23
Conducted Out of Band Emissions	
Unwanted Emissions above 1 GHz	29
Pictures of Test Arrangements	33
Information of the Testing Laboratories	34
3	RF Output Power 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 Pictures of Test Arrangements



Release Control Record

Issue No.	Description	Date Issued
REBCUN-WTW-P21123242C-1	Original release	2024/6/24
RFBCUN-WTW-P21123242C-1 R1	Revised model	2024/7/9

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 4 / 34 Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024



1 Certificate

Product: Outdoor WiFi6 AP

Brand: ASKEY

Test Model: EAO2522P-2-FCC

Sample Status: Engineering sample

Applicant: ASKEY COMPUTER CORP.

Test Date: 2022/1/5 ~ 2022/1/11

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.

Report No.: RFBCUN-WTW-P21123242C-1 R1

Reference No.: BCUN-WTW-P24040550
Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

P21123242C-1 R1 Page No. 5 / 34



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 -6.99 dB at 6.80600 MHz				
15.205 / 15.209 / 15.247(d)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.85 dB at 56.19 MHz				
15.205 / 15.209 / 15.247(d)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.10 dB at 4960.00 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) (±)
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
	9kHz ~ 30MHz	3.00 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	2.91 dB
	200MHz ~1000MHz	2.92 dB
Padiated Emissions shows 1 CHz	1GHz ~ 18GHz	1.76 dB
Radiated Emissions above 1 GHz	18GHz ~ 40GHz	1.77 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.

Page No. 6 / 34

Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550



3 General Information

3.1 General Description

Product	Outdoor WiFi6 AP
Brand	ASKEY
Test Model	EAO2522P-2-FCC
Status of EUT	Engineering sample
Power Supply Rating	50-57 Vdc (POE)
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	Up to 1 Mbps
Operating Frequency	2.402 GHz ~ 2.48 GHz
Number of Channel	40
Output Power	0.200 mW (-6.98 dBm)

Note: 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	D	Martal	Gain (dBi)	A 1	Connector Type
No.	Brand	Model	2400~2483.5 MHz	Antenna Type	
Ant 10	Airgain	N01AKAWD	5.1	Dipole	ipex(MHF)

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

Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550

Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

Page No. 7 / 34



3.3 Channel List

40 channels are provided for BT-LE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.4 Test Mode Applicability and Tested Channel Detail

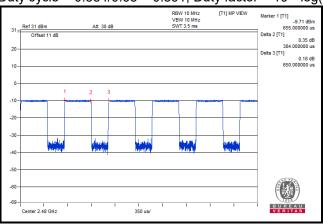
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power / Power Spectral Density	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
6 dB Bandwidth / Conducted Out of Band Emissions	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
AC Power Conducted Emissions	BT-LE 1M	39	GFSK	1Mb/s
Unwanted Emissions below 1 GHz	BT-LE 1M	39	GFSK	1Mb/s
Unwanted Emissions above 1 GHz	BT-LE 1M	0, 19, 39	GFSK	1Mb/s

Note: The EUT is device Will restriced installation position, the EUT was positioned on the z-axis during testing.

3.5 Duty Cycle of Test Signal

Duty cycle = 0.384/0.65 = 0.591, Duty factor = 10 * log(1/0.591) = 2.29



Report No.: RFBCUN-WTW-P21123242C-1 R1 P Reference No.: BCUN-WTW-P24040550

Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

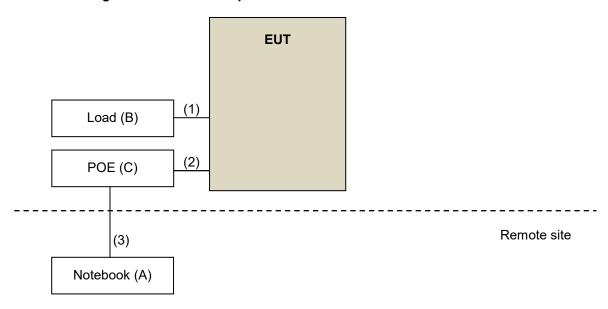
Page No. 8 / 34



3.6 Test Program Used and Operation Descriptions

Controlling software QSPR Version 5.0-00197 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	Notebook	ebook DELL E5420		76WNBT1	N/A	
В	Load	N/A	N/A	N/A	N/A	
С	POE	Delta	ADH-45AR B	N/A	N/A	Provided by client

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN Cable	1	1.5	Ν	0	RJ45, Cat5e
2	LAN Cable	1	1.5	Ν	0	RJ45, Cat5e
3	LAN Cable	1	6	Ν	0	RJ45, Cat5e

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 9 / 34 Report Format Version: 7.1.0

Reference No.: BCUN-WTW-P24040550



Report Format Version: 7.1.0

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	Jan. 19, 2021	Jan. 18, 2022
Wideband Power Sensor KEYSIGHT	N1923A	MY58190002	May 05, 2021	May 04, 2022

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2022/1/11

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Spectrum Analyzer KEYSIGHT	N9020B	MY60110462	Dec. 21, 2021	Dec. 20, 2022
Software BV CPS	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Spectrum Analyzer R&S	FSU43	101261	Apr. 12, 2021	Apr. 11, 2022

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2022/1/11

4.3 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Software BV CPS	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Spectrum Analyzer R&S	FSU43	101261	Apr. 12, 2021	Apr. 11, 2022

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2022/1/11

Conducted Out of Band Emissions

Refer to section 4.3 to get information of the instruments.

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 10 / 34 Reference No.: BCUN-WTW-P24040550



4.5 **AC Power Conducted Emissions**

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 03, 2021	Dec. 02, 2022
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Sep. 07, 2021	Sep. 06, 2022
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Notes:

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

2. Tested Date: 2022/1/10

4.6 Unwanted Emissions below 1 GHz

Model No.	Serial No.	Calibrated Date	Calibrated Until
NA	NA	NA	NA
KT-2000	NA	NA	NA
ADT_Radiated_V7.6.15.9.5	NA	NA	NA
N9020B	MY60110462	Dec. 21, 2021	Dec. 20, 2022
N9038B	MY60180018	Feb. 01, 2021	Jan. 31, 2022
MFT-151SS-0.5T	NA	NA	NA
MF-7802BS	MF780208675	NA	NA
EMC330N	980783	Jan. 19, 2021	Jan. 18, 2022
EMC118A45SE	980810	Dec. 30, 2021	Dec. 29, 2022
EMC184045SE	980787	Jan. 18, 2021	Jan. 17, 2022
VULB9168	9168-995	Oct. 28, 2021	Otc. 27, 2022
DRH18-E	210104A18E	Nov. 14, 2021	Nov. 13, 2022
BBHA 9170	9170-995	Nov. 14, 2021	Nov. 13, 2022
HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
	NA KT-2000 ADT_Radiated_V7.6.15.9.5 N9020B N9038B MFT-151SS-0.5T MF-7802BS EMC330N EMC118A45SE EMC184045SE VULB9168 DRH18-E BBHA 9170	NA NA KT-2000 NA ADT_Radiated_V7.6.15.9.5 NA N9020B MY60110462 N9038B MY60180018 MFT-151SS-0.5T NA MF-7802BS MF780208675 EMC330N 980783 EMC118A45SE 980810 EMC184045SE 980787 VULB9168 9168-995 DRH18-E 210104A18E BBHA 9170 9170-995	Model No. Serial No. Date NA NA NA KT-2000 NA NA ADT_Radiated_V7.6.15.9.5 NA NA N9020B MY60110462 Dec. 21, 2021 N9038B MY60180018 Feb. 01, 2021 MFT-151SS-0.5T NA NA MF-7802BS MF780208675 NA EMC330N 980783 Jan. 19, 2021 EMC118A45SE 980810 Dec. 30, 2021 EMC184045SE 980787 Jan. 18, 2021 VULB9168 9168-995 Oct. 28, 2021 DRH18-E 210104A18E Nov. 14, 2021 BBHA 9170 9170-995 Nov. 14, 2021

Notes:

1. The test was performed in HY - 966 chamber 7.

2. Tested Date: 2022/1/5

Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550

Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

Page No. 11 / 34



Unwanted Emissions above 1 GHz 4.7

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver KEYSIGHT	N9038B	MY60180018	Feb. 01, 2021	Jan. 31, 2022
Spectrum Analyzer KEYSIGHT	N9020B	MY60110462	Dec. 21, 2021	Dec. 20, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-995	Oct. 28, 2021	Otc. 27, 2022
HORN Antenna RF SPIN	DRH18-E	210104A18E	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	9170-995	Nov. 14, 2021	Nov. 13, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC330N	980783	Jan. 19, 2021	Jan. 18, 2022
Preamplifier EMCI	EMC118A45SE	980810	Dec. 30, 2021	Dec. 29, 2022
Preamplifier EMCI	EMC184045SE	980787	Jan. 18, 2021	Jan. 17, 2022
RF signal cable EMCI	EMC104-SM-SM- (9000+3000+2000+1000)	201230+ 201242+201238+ 210101	Jan. 18, 2021	Jan. 17, 2022
RF signal cable EMCI	EMCCFD400-NM-NM- (9000+3000+500+500)	201252+ 201250+ 201247+201245	Jan. 18, 2021	Jan. 17, 2022
RF signal cable EMCI	EMC101G-KM-KM- (5000+3000+2000)	201259+201256+201253	Jan. 18, 2021	Jan. 17, 2022
Software BV CPS	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Turn Table Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208675	NA	NA
Antenna Tower KaiTuo	NA	NA	NA	NA
Antenna Tower Controller KaiTuo	KT-2000	NA	NA	NA
Wideband Power Sensor KEYSIGHT	N1923A	MY58190002	May 05, 2021	May 04, 2022
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 19, 2021	Jan. 18, 2022
Notes:				

Notes:

1. The test was performed in HY - 966 chamber 7.

2. Tested Date: 2022/1/10

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 12 / 34 Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024



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)		
	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).

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 13 / 34 Report Format Version: 7.1.0

Reference No.: BCUN-WTW-P24040550



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.

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 14 / 34 Report Format Version: 7.1.0

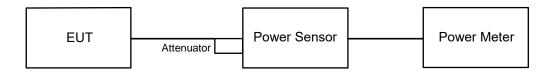
Reference No.: BCUN-WTW-P24040550
Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024



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.

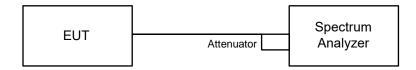
Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 15 / 34 Report Format Version: 7.1.0

Reference No.: BCUN-WTW-P24040550



6 dB Bandwidth 6.3

6.3.1 Test Setup



6.3.2 Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz.
- b. Set the video bandwidth (VBW) \geq 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.
- Allow trace to fully stabilize.
- 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.
- Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum amplitude level.

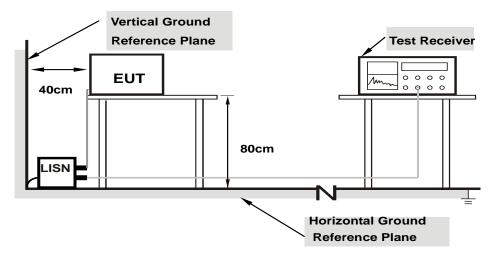
Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 16 / 34 Report Format Version: 7.1.0

Reference No.: BCUN-WTW-P24040550



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.: RFBCUN-WTW-P21123242C-1 R1 Page No. 17 / 34 Report Format Version: 7.1.0

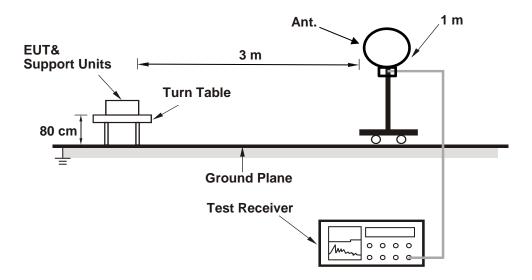
Reference No.: BCUN-WTW-P24040550



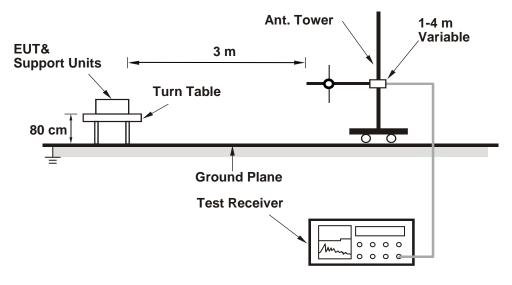
6.6 Unwanted Emissions below 1 GHz

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).

Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550

Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

Page No. 18 / 34



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.

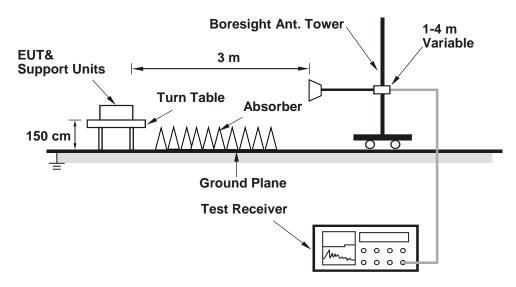
Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 19 / 34 Report Format Version: 7.1.0

Reference No.: BCUN-WTW-P24040550



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 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.

Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550

Reference No.: BCUN-WTW-P24040550
Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

Page No. 20 / 34



7 Test Results of Test Item

7.1 RF Output Power

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin	
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For Peak Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Peak Power (mW)	Peak Power (dBm)	Power Limit (dBm)	Test Result
0	2402	0.1419	-8.48	30	Pass
19	2440	0.1652	-7.82	30	Pass
39	2480	0.2004	-6.98	30	Pass

Note: The antenna gain is 5.1 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

BT-LE 1M

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	0.03148	-15.02
19	2440	0.07178	-11.44
39	2480	0.1047	-9.80

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 21 / 34 Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024



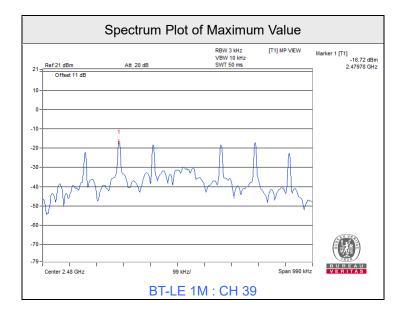
7.2 Power Spectral Density

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin	
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BT-LE 1M

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Test Result
0	2402	-21.90	8.00	Pass
19	2440	-18.14	8.00	Pass
39	2480	-16.72	8.00	Pass

Note: The antenna gain is 5.1 dBi < 6 dBi, so the power density limit shall not be reduced.



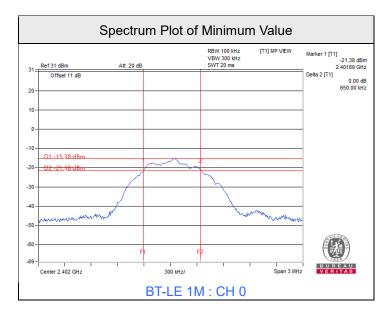


7.3 6 dB Bandwidth

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin
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BT-LE 1M

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
0	2402	0.65	0.5	Pass
19	2440	0.65	0.5	Pass
39	2480	0.66	0.5	Pass





7.4 Conducted Out of Band Emissions

Input Power:	54 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Tim Chen/Chris Lin
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BT-LE 1M





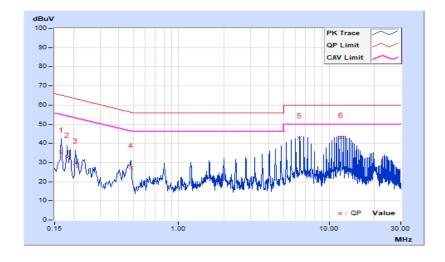
7.5 AC Power Conducted Emissions

RF Mode	BT-LE 1M	Channel	CH 39: 2480 MHz
Frequency Range	150kHz ~ 30MHz	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 E (dBuV)		n Level uV)	Limit (dBuV)		Margin (dB)			
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.16600	9.71	25.81	6.43	35.52	16.14	65.16	55.16	-29.64	-39.02		
2	0.18200	9.71	22.84	5.99	32.55	15.70	64.39	54.39	-31.84	-38.69		
3	0.20600	9.71	19.78	6.92	29.49	16.63	63.37	53.37	-33.88	-36.74		
4	0.48200	9.73	17.39	5.19	27.12	14.92	56.30	46.30	-29.18	-31.38		
5	6.40600	9.82	32.85	32.79	42.67	42.61	60.00	50.00	-17.33	-7.39		
6	12.01400	9.85	33.26	32.86	43.11	42.71	60.00	50.00	-16.89	-7.29		

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



Report No.: RFBCUN-WTW-P21123242C-1 R1

Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

Page No. 25 / 34

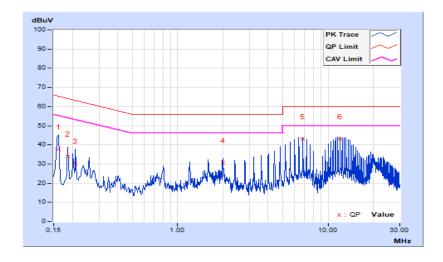


			VERITAS
RF Mode	BT-LE 1M	Channel	CH 39: 2480 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

	Phase Of Power : Neutral (N)											
No	Frequency	Correction Factor	Readin (dB	g Value uV)		n Level uV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.16190	9.77	28.09	5.77	37.86	15.54	65.37	55.37	-27.51	-39.83		
2	0.18600	9.77	24.38	5.21	34.15	14.98	64.21	54.21	-30.06	-39.23		
3	0.21000	9.77	20.59	5.56	30.36	15.33	63.21	53.21	-32.85	-37.88		
4	2.00200	9.83	20.75	20.52	30.58	30.35	56.00	46.00	-25.42	-15.65		
5	6.80600	9.89	33.28	33.12	43.17	43.01	60.00	50.00	-16.83	-6.99		
6	12.01000	9.94	33.12	32.10	43.06	42.04	60.00	50.00	-16.94	-7.96		

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





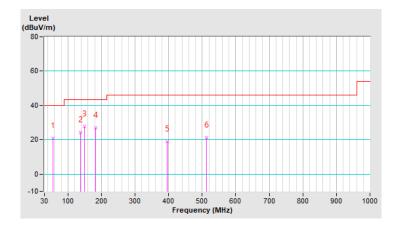
7.6 Unwanted Emissions below 1 GHz

RF Mode	BT-LE 1M	Channel	CH 39: 2480 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 65% RH
Tested By	Wade Huang		

	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	56.19	20.93 QP	40.00	-19.07	1.51 H	184	39.36	-18.43			
2	137.67	24.18 QP	43.50	-19.32	1.99 H	262	42.98	-18.80			
3	148.34	27.59 QP	43.50	-15.91	1.99 H	101	45.84	-18.25			
4	183.26	26.84 QP	43.50	-16.66	1.51 H	268	47.09	-20.25			
5	395.69	18.81 QP	46.00	-27.19	1.01 H	211	34.43	-15.62			
6	512.09	21.14 QP	46.00	-24.86	1.01 H	18	34.20	-13.06			

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.



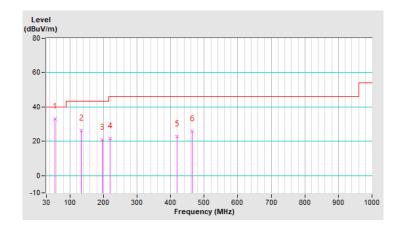


			VERITAS
RF Mode	BT-LE 1M	Channel	CH 39: 2480 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 65% RH
Tested By	Wade Huang		

	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	33.15 QP	40.00	-6.85	1.00 V	158	51.58	-18.43			
2	132.82	26.16 QP	43.50	-17.34	1.49 V	18	45.41	-19.25			
3	195.87	21.01 QP	43.50	-22.49	1.00 V	7	42.71	-21.70			
4	219.15	21.59 QP	46.00	-24.41	1.99 V	2	43.53	-21.94			
5	418.97	22.62 QP	46.00	-23.38	1.00 V	114	37.65	-15.03			
6	463.59	25.91 QP	46.00	-20.09	1.00 V	177	39.81	-13.90			

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.





7.7 Unwanted Emissions above 1 GHz

RF Mode	BT-LE 1M	Channel	CH 0: 2402 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 68% RH
Tested By	Wade Huang		

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	57.61 PK	74.00	-16.39	1.88 H	170	25.65	31.96
2	2390.00	44.68 AV	54.00	-9.32	1.88 H	170	12.72	31.96
3	*2402.00	85.60 PK			1.88 H	170	53.66	31.94
4	*2402.00	84.06 AV			1.88 H	170	52.12	31.94
5	4804.00	57.72 PK	74.00	-16.28	1.51 H	333	54.62	3.10
6	4804.00	50.37 AV	54.00	-3.63	1.51 H	333	47.27	3.10
	Antenna Polarity & Test Distance : Vertical at 3 m							
No	Frequency (MHz)	Emission Level	Limit	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor
	(141112)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)
1	2390.00	(dBuV/m) 57.12 PK	(dBuV/m) 74.00	(dB) -16.88	. ~			
1 2	` '		,	` '	(m)	(Degree)	(dBuV)	(dB/m)
<u> </u>	2390.00	57.12 PK	74.00	-16.88	(m) 1.17 V	(Degree) 156	(dBuV) 25.16	(dB/m) 31.96
2	2390.00 2390.00	57.12 PK 44.85 AV	74.00	-16.88	(m) 1.17 V 1.17 V	(Degree) 156 156	(dBuV) 25.16 12.89	(dB/m) 31.96 31.96
3	2390.00 2390.00 *2402.00	57.12 PK 44.85 AV 78.99 PK	74.00	-16.88	(m) 1.17 V 1.17 V 1.17 V	(Degree) 156 156 156	(dBuV) 25.16 12.89 47.05	(dB/m) 31.96 31.96 31.94

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.

Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550



			VERITAS
RF Mode	BT-LE 1M	Channel	CH 19: 2440 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 68% RH
Tested By	Wade Huang		

	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	90.35 PK			1.92 H	192	58.50	31.85
2	*2440.00	89.32 AV			1.92 H	192	57.47	31.85
3	4880.00	58.11 PK	74.00	-15.89	1.84 H	303	54.91	3.20
4	4880.00	51.85 AV	54.00	-2.15	1.84 H	303	48.65	3.20
	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	*2440.00	80.75 PK			1.97 V	140	48.90	31.85
2	*2440.00	79.00 AV			1.97 V	140	47.15	31.85
3	4880.00	59.48 PK	74.00	-14.52	1.65 V	170	56.28	3.20
4	4880.00	53.62 AV	54.00	-0.38	1.65 V	170	50.42	3.20

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.

Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550

Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

Page No. 30 / 34



			VERTIAS
RF Mode	BT-LE 1M	Channel	CH 39: 2480 MHz
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 68% RH
Tested By	Wade Huang		

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	*2480.00	90.60 PK			1.95 H	197	58.71	31.89
2	*2480.00	89.20 AV			1.95 H	197	57.31	31.89
3	2483.50	56.79 PK	74.00	-17.21	1.95 H	197	24.90	31.89
4	2483.50	43.91 AV	54.00	-10.09	1.95 H	197	12.02	31.89
5	4960.00	59.01 PK	74.00	-14.99	1.40 H	171	55.96	3.05
6	4960.00	53.20 AV	54.00	-0.80	1.40 H	171	50.15	3.05
	Antenna Polarity & Test Distance : Vertical at 3 m							
		Emission			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		_	. ~		Value	Factor
No 1 2	(MHz)	Level (dBuV/m)		_	(m)	(Degree)	Value (dBuV)	Factor (dB/m)
1	(MHz) *2480.00	Level (dBuV/m) 80.78 PK		_	(m) 3.09 V	(Degree) 321	Value (dBuV) 48.89	Factor (dB/m) 31.89
1 2	*2480.00 *2480.00	Level (dBuV/m) 80.78 PK 79.36 AV	(dBuV/m)	(dB)	(m) 3.09 V 3.09 V	(Degree) 321 321	Value (dBuV) 48.89 47.47	Factor (dB/m) 31.89 31.89
1 2 3	*2480.00 *2480.00 2483.50	Level (dBuV/m) 80.78 PK 79.36 AV 57.84 PK	(dBuV/m) 74.00	(dB) -16.16	(m) 3.09 V 3.09 V 3.09 V	(Degree) 321 321 321	Value (dBuV) 48.89 47.47 25.95	Factor (dB/m) 31.89 31.89 31.89

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.

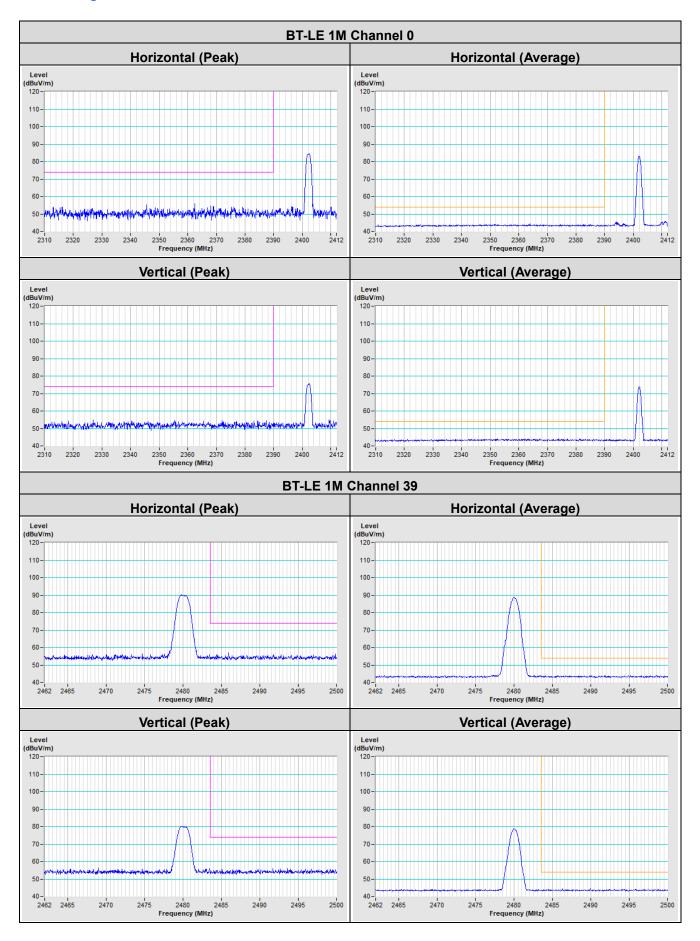
Report No.: RFBCUN-WTW-P21123242C-1 R1 Reference No.: BCUN-WTW-P24040550

Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024

Page No. 31 / 34



Plot of Band Edge





Report Format Version: 7.1.0

Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

Report No.: RFBCUN-WTW-P21123242C-1 R1 Page No. 33 / 34 Reference No.: BCUN-WTW-P24040550 Cancels and replaces the report No.: REBCUN-WTW-P21123242C-1 dated Jun. 24, 2024



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

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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Page No. 34 / 34 Report Format Version: 7.1.0