0659



## **FCC Radio Test Report**

FCC ID: RWO-RZ090484

This report concerns: Class II Permissive Changes

Report No. BTL-FCCP-3-2211C022

Equipment Notebook PC **Model Name** RZ09-0485 **Brand Name RAZER** Applicant : Razer Inc.

Address : 9 Pasteur, Suite 100, Irvine, CA92618, USA.

Manufacturer : Razer Inc.

Address : 9 Pasteur, Suite 100, Irvine, CA92618, USA.

**Radio Function** : WLAN 2.4 GHz

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.247)

Measurement : ANSI C63.10-2013

Procedure(s)

Date of Receipt : 2022/11/09

Date of Test : 2022/11/25 ~ 2023/1/19

Issued Date : 2023/1/31

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by Eric Lee, Engineer

BTL Inc.

Approved by

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Project No.: 2211C022 Page 1 of 42 Report Version: R01





### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Project No.: 2211C022 Page 2 of 42 Report Version: R01





### **CONTENTS**

REVISIO	N HISTOF	RY	4
1	SUMMAF	RY OF TEST RESULTS	5
1.1	TEST	FACILITY	6
1.2	MEAS	SUREMENT UNCERTAINTY	6
1.3	TEST	ENVIRONMENT CONDITIONS	7
1.4	TABLE	OF PARAMETERS OF TEST SOFTWARE SETTING	7
2	GENER <i>A</i>	AL INFORMATION	8
2.1	DESC	RIPTION OF EUT	8
2.2	TEST	MODES	10
2.3	BLOC	K DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.4	SUPP	ORT UNITS	12
3	AC POW	ER LINE CONDUCTED EMISSIONS TEST	13
3.1	LIMIT		13
3.2	TEST	PROCEDURE	13
3.3	DEVIA	ATION FROM TEST STANDARD	13
3.4	TEST	SETUP	14
3.5	TEST	RESULT	14
4	RADIATE	ED EMISSIONS TEST	15
4.1	LIMIT		15
4.2	TEST	PROCEDURE	16
4.3	DEVIA	ATION FROM TEST STANDARD	16
4.4	TEST	SETUP	16
4.5	EUT C	PERATING CONDITIONS	18
4.6	TEST	RESULT – BELOW 30 MHZ	18
4.7	TEST	RESULT – 30 MHZ TO 1 GHZ	18
4.8	TEST	RESULT – ABOVE 1 GHZ	18
5	OUTPUT	POWER TEST	19
5.1	LIMIT		19
5.2	TEST	PROCEDURE	19
5.3	DEVIA	ATION FROM TEST STANDARD	19
5.4	TEST	SETUP	19
5.5	EUT C	PERATING CONDITIONS	19
5.6	TEST	RESULT	19
6		MEASURING EQUIPMENTS	20
7		ST PHOTO	21
8	EUT PHO	DTOS	21
APPEND	OIX A	AC POWER LINE CONDUCTED EMISSIONS	22
APPEND	IX B	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	27
APPEND	OIX C	RADIATED EMISSIONS - ABOVE 1 GHZ	30
APPEND	APPENDIX D OUTPUT POWER		





### **REVISION HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2211C022	R00	Original Report.	2023/1/4	Invalid
BTL-FCCP-3-2211C022	R01	Revised report to address TAF Audit's	2023/1/31	Valid
		comments.		

Project No.: 2211C022 Page 4 of 42 Report Version: R01



### **SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C	Pass	
15.247(a)	Bandwidth		Pass	
15.247(b)	Output Power	APPENDIX D	Pass	
15.247(e)	Power Spectral Density		Pass	
15.247(d)	Antenna conducted Spurious Emission		Pass	
15.203	Antenna Requirement		Pass	

### NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.(2) The report format version is TP.1.1.1.
- (3) The antenna gain of EUT is smaller than that of the module. So in this report the worst cases of radiated spurious emissions and AC Power Line Conducted Emissions were evaluated and recorded. And evaluated the output power items and recorded in the report. For the test results of all other test items please refer to module test reports.

Project No.: 2211C022 Report Version: R01 Page 5 of 42



Report No.: BTL-FCCP-3-2211C022

1	1	TEST	FΛ	CII	ITV

The test facilities used to collect	tne test	data in	this re	port:
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No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

□ **C**06 ⊠

□ CB22

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

⊠ C05

☐ CB08 ☐ CB11

□ CB15

□ CB16

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expanded uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k} = \mathbf{2}$ , providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $\mathbf{U}_{cispr}$  requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

### B. Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB21	1 GHz ~ 6 GHz	5.21
CDZI	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

### C. Conducted test:

Test Item	U,(dB)
Output power	0.3669

### NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

Project No.: 2211C022 Page 6 of 42 Report Version: R01



Report No.: BTL-FCCP-3-2211C022

### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	<b>Environment Condition</b>	Test Voltage	Tested by
AC Power Line Conducted Emissions	19°C, 65%	AC 120V/60Hz	Jay Tien
Radiated emissions below 1 GHz	23°C, 59%	AC 120V/60Hz	Mark Wang
Radiated emissions above 1 GHz	23°C, 59%	AC 120V/60Hz	Mark Wang
Output Power	22.6°C, 51%	AC 120V/60Hz	Angela Wang

### 1.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

Main Ant.							
Test Software	DRTU V02999.22.180.0						
Mode	2412 MHz	2437 MHz	2462 MHz	2467MHz	2472MHz	Data Rate	
IEEE 802.11b	22.5	23	22.75	20.125	16.5	1 Mbps	
IEEE 802.11g	20	23	19.75	17.25	13.75	6 Mbps	

Aux Ant.							
Test Software	DRTU V02999.22.180.0						
Mode	2412 MHz	2437 MHz	2462 MHz	2467MHz	2472MHz	Data Rate	
IEEE 802.11b	22	23	22.25	20.125	16.5	1 Mbps	
IEEE 802.11g	20	23	19.75	17.25	13.75	6 Mbps	

MIMO							
Test Software		DRTU V02999.22.180.0					
Mode	2412 MHz	2437 MHz	2462 MHz	2467 MHz	2472 MHz	Data Rate	
IEEE 802.11n (HT20)	18.25	23	18.25	14	12	HT 8	
IEEE 802.11ax (HE20)	18.25	23	23.75	14.25	12	HE 0	
Mode	2422 MHz	2437 MHz	2452 MHz	2457 MHz	2462 MHz	Data Rate	
IEEE 802.11n (HT40)	17.25	17.75	16.5	10.5	11.375	HT 8	
IEEE 802.11ax (HE40)	17.25	18.25	17.5	10.5	11.5	HE 0	

Project No.: 2211C022 Page 7 of 42 Report Version: R01



### **2 GENERAL INFORMATION**

### 2.1 DESCRIPTION OF EUT

	N	_				
Equipment	Notebook PC					
Model Name	RZ09-0485 RAZER					
Brand Name						
Model Difference	N/A					
	1# DC voltage supplied from AC adapter.					
Power Source	Model: RC30-024801					
l ower source	2# Supplied from battery.					
	Model: RC30-0248					
Dawer Dating	1# I/P: 100-240V, 3.6A ,50/60Hz O/P: 19.5V===11.8A					
Power Rating	2# DC 15.4V, 5209mAh, 80Wh					
Dua diveta Cavana d	1* POWER Adapter					
Products Covered	1* AC Cable					
Operation Band	2400 MHz ~ 2483.5 MHz					
Operation Frequency	2412 MHz ~ 2472 MHz					
	IEEE 802.11b: DSSS					
Madulatian Tashnalasu	IEEE 802.11g: OFDM					
Modulation Technology	IEEE 802.11n: OFDM					
	IEEE 802.11ax: OFDMA					
	IEEE 802.11b: 11/5.5/2/1 Mbps					
Transfer Rate	IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps					
Transier ivate	IEEE 802.11n: up to 300 Mbps					
	IEEE 802.11ax: up to 573.6 Mbps					
	For Main Ant.:					
	IEEE 802.11b: 23.92 dBm (0.2466 W)					
	IEEE 802.11g: 24.45 dBm (0.2786 W)					
	For Aux Ant.:					
Output Dawer May	IEEE 802.11b: 24.01 dBm (0.2518 W)					
Output Power Max.	IEEE 802.11g: 24.35 dBm (0.2723 W)					
	For MIMO:					
	IEEE 802.11n (HT20): 26.85 dBm (0.4842 W)					
	IEEE 802.11n (HT40): 25.42 dBm (0.3484 W)					
	IEEE 802.11ax(HE20): 26.76 dBm (0.4742 W)					
	IEEE 802.11ax(HE40): 25.97 dBm (0.3954 W)					
Test Model	RZ09-0485	$\dashv$				
Sample Status	Engineering Sample	$\dashv$				
EUT Modification(s)	N/A	$\dashv$				
LOT Modification(3)	1 4/1 1					

### NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

Project No.: 2211C022 Page 8 of 42 Report Version: R01





(2) Channel List:

CH01 - CH	CH01 - CH13 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH11 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)								
Channel	Frequency (MHz)	Channel	Channel	Frequency (MHz)					
01	2412	06	2437	11	2462				
02	2417	07	2442	12	2467				
03	2422	08	2447	13	2472				
04	2427	09	2452						
05	2432	10	2457						

(3) Table for Filed Antenna:

Ant.	Manufacturer	P/N	Туре	Connector	Gain (dBi)
1	Amphenol	BY5973-15-001-C	PIFA	N/A	2.74
2	Amphenol	BY5962-15-001-C	PIFA	N/A	2.53

### Note:

- This EUT supports MIMO 2X2, any transmit signals are uncorrelated with each other, so Directional gain= 10log[(10<sup>G1/10</sup>+10<sup>G2/10</sup>+...10<sup>GN/10</sup>)/N]dBi, that is Directional gain=10log[(10<sup>2.74/10</sup>+10<sup>2.53/10</sup>)/2]dBi=2.64.
   Ant.1 refers to main antenna, Ant.2 refers to aux antenna.
- 3) The AUX antenna connector of the module connected to the MAIN antenna of the EUT and the MAIN antenna connector of the module connected to the AUX antenna of the EUT.
- (4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Project No.: 2211C022 Page 9 of 42 Report Version: R01



### 2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11b	06	-
Transmitter Radiated Emissions	TX Mode_IEEE 802.11b	11	Pondodao
(above 1GHz)	TX Mode_IEEE 802.11ax (HE40)	09	Bandedge
Transmitter Radiated Emissions	TX Mode_IEEE 802.11b	06	Harmonic
(above 1GHz)	TX Mode_IEEE 802.11ax (HE40)	06	Панноніс
	TX Mode_IEEE 802.11b		
	TX Mode_IEEE 802.11g	01/06/11/12/13	
Output Power	TX Mode_IEEE 802.11n (HT20)	01/06/11/12/13	
Output Power	TX Mode_IEEE 802.11ax (HE20)		-
	TX Mode_IEEE 802.11n (HT40)	03/06/09/10/11	
	TX Mode_IEEE 802.11ax (HE40)	03/00/09/10/11	

### NOTE:

(1)	For radiated emission band edge test, both	Vertical and Horizo	ontal are evaluated,	but only the worst case
	(Vertical) is recorded.			

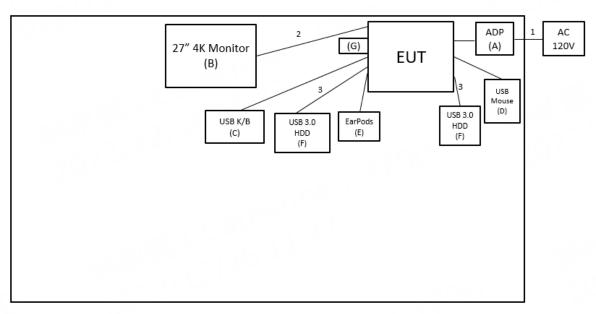
Project No.: 2211C022 Page 10 of 42 Report Version: R01



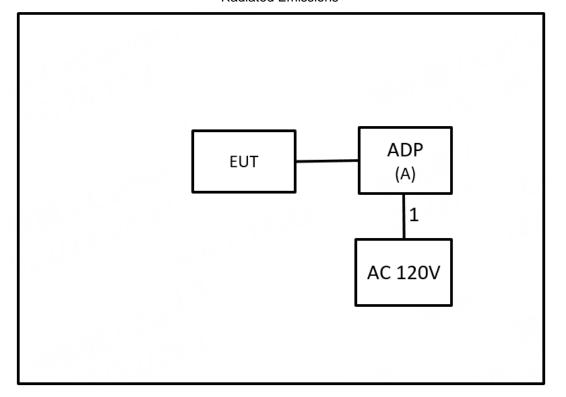
### 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC power line conducted emissions



**Radiated Emissions** 



Project No.: 2211C022 Page 11 of 42 Report Version: R01

Report No.: BTL-FCCP-3-2211C022

### 2.4 SUPPORT UNITS

### AC power line conducted emissions

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	ADP	Razer	RC30-024801	N/A	Supplied by test requester.
В	27" 4K Monitor	DELL	U2720Q	CN-083VF-WSL00-0 B7-332L	Furnished by test lab.
С	USB K/B	DELL	KB216t	CN-0W33XP-L0300- 797-05TY-A03	Furnished by test lab.
D	USB Mouse	DELL	MOCZUL	CN-049TWY-PRC00- 79E-01HA	Furnished by test lab.
Е	EarPods	Apple	A1472	N/A	Furnished by test lab.
F	USB 3.0 HDD	WD	WDBC3C0010BSL-0B	WX81A88ALJUC	Furnished by test lab.
G	USB Dongle	Kingston	DataTraveler Exodia	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	1.2m	Power Cable	Supplied by test requester.
2	No	No	1.7m	HDMI Cable	Furnished by test lab.
3	No	No	18cm	TypeC to TypeC Cable	Furnished by test lab.

### Radiated Emissions

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	ADP	Razer	RC30-024801	N/A	Supplied by test requester.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Power Cable	Supplied by test requester.

Project No.: 2211C022 Page 12 of 42 Report Version: R01



Report No.: BTL-FCCP-3-2211C022

### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

### 3.1 LIMIT

Frequency	Limit (dBμV)			
(MHz)	Quasi-peak	Average		
0.15 - 0.5	66 - 56 *	56 - 46 *		
0.50 - 5.0	56	46		
5.0 - 30.0	60	50		

### NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	II	41.67

Measurement Value	Limit Value		Margin Level
41.67	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
  - All other support equipment were powered from an additional LISN(s).
  - The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
  - The end of the cable will be terminated, using the correct terminating impedance.
  - The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

### NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

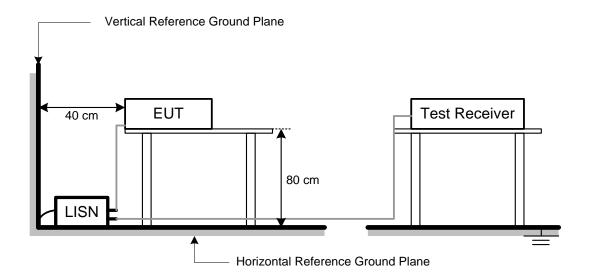
### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

Project No.: 2211C022 Page 13 of 42 Report Version: R01



### 3.4 TEST SETUP



### 3.5 TEST RESULT

Please refer to the APPENDIX A.



Report No.: BTL-FCCP-3-2211C022

### 4 RADIATED EMISSIONS TEST

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated (dBu	Measurement Distance	
(IVITZ)	Peak	Average	(meters)
Above 1000	74	54	3

### NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
19.11	+	2.11	=	21.22

Measurement Value		Limit Value		Margin Level
21.22	ı	54	II	-32.78

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1MHz / 3MHz for Peak,
(Emission in restricted band)	1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

Project No.: 2211C022 Page 15 of 42 Report Version: R01



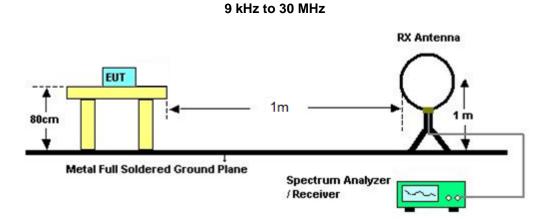
### 4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

### 4.3 DEVIATION FROM TEST STANDARD

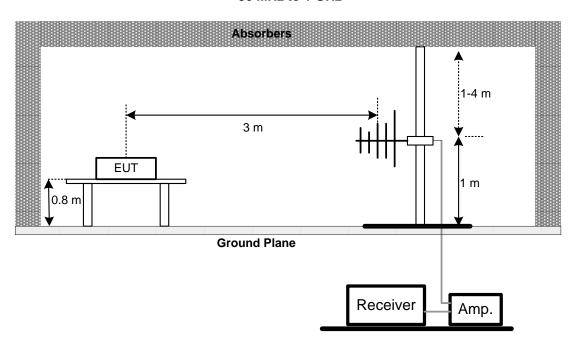
No deviation.

### 4.4 TEST SETUP

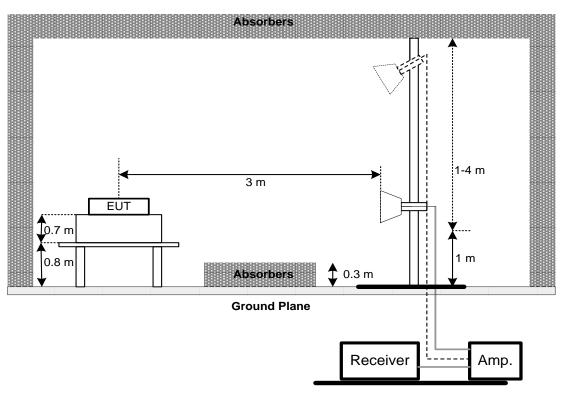




### 30 MHz to 1 GHz



### **Above 1 GHz**





Report No.: BTL-FCCP-3-2211C022

### 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 4.6 TEST RESULT - BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

### 4.7 TEST RESULT - 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

### 4.8 TEST RESULT - ABOVE 1 GHZ

Please refer to the APPENDIX C.

### NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

Project No.: 2211C022 Page 18 of 42 Report Version: R01



### 5 OUTPUT POWER TEST

### 5.1 LIMIT

	FCC Part15, Subpart C (15.247)	
Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

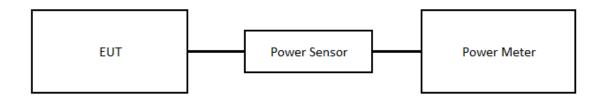
### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- c. Subclause 11.9.1.1 of ANSI C63.10 is applied. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
  - The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULT

Please refer to the APPENDIX D.

Project No.: 2211C022 Page 19 of 42 Report Version: R01



### 6 LIST OF MEASURING EQUIPMENTS

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101521	2022/9/28	2023/9/27
2	Test Cable	EMCI	EMCCFD300-BM -BMR-5000	220331	2022/3/31	2023/3/30
3	EMI Test Receiver	R&S	ESR 7	101433	2022/11/16	2023/11/15
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

	Radiated Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2022/9/19	2023/9/18
2	Preamplifier	EMCI	EMC118A45SE	980819	2022/3/8	2023/3/7
3	Preamplifier	EMCI	EMC184045SE	980882	2022/2/9	2023/2/8
4	Preamplifier	EMCI	EMC001340	980579	2022/9/30	2023/9/29
5	Test Cable	EMCI	EMC104-SM-SM- 1000	220319	2022/3/15	2023/3/14
6	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2022/3/15	2023/3/14
7	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2022/3/15	2023/3/14
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2022/3/7	2023/3/6
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2022/9/19	2023/9/18
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2022/5/18	2023/5/17
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2022/5/20	2023/5/19
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-N0625	2022/5/20	2023/5/19
14	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

			Output Power			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2022/6/1	2023/5/31
2	Power Sensor	Anritsu	MA2411B	1126001	2022/6/1	2023/5/31

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.





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	EUT TEST PHOTO
Ple	ase refer to document Appendix No.: TP-2211C022-1 (APPENDIX-TEST PHOTOS).
8	EUT PHOTOS
Ple	ase refer to document Appendix No.: EP-2211C022-1 (APPENDIX-EUT PHOTOS).

Project No.: 2211C022 Page 21 of 42 Report Version: R01

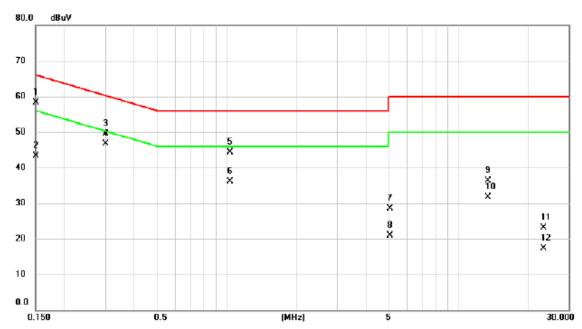


APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

Project No.: 2211C022 Page 22 of 42 Report Version: R01



Test Mode	Normal	Tested Date	2022/12/21
Test Frequency	-	Phase	Line

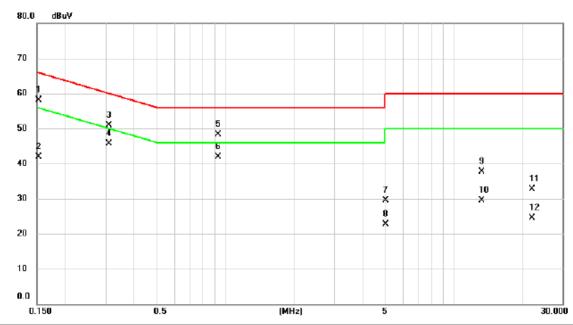


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1500	48.68	9.63	58.31	66.00	-7.69	QP	
2		0.1500	33.76	9.63	43.39	56.00	-12.61	AVG	
3		0.3007	39.94	9.65	49.59	60.22	-10.63	QP	
4	*	0.3007	36.97	9.65	46.62	50.22	-3.60	AVG	
5		1.0320	34.66	9.70	44.36	56.00	-11.64	QP	
6		1.0320	26.41	9.70	36.11	46.00	-9.89	AVG	
7		5.0775	18.56	9.85	28.41	60.00	-31.59	QP	
8		5.0775	11.04	9.85	20.89	50.00	-29.11	AVG	
9		13.4812	26.25	9.98	36.23	60.00	-23.77	QP	
10		13.4812	21.72	9.98	31.70	50.00	-18.30	AVG	
11		23.3250	13.12	10.05	23.17	60.00	-36.83	QP	
12		23.3250	7.34	10.05	17.39	50.00	-32.61	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	Normal	Tested Date	2022/12/21
Test Frequency	-	Phase	Neutral

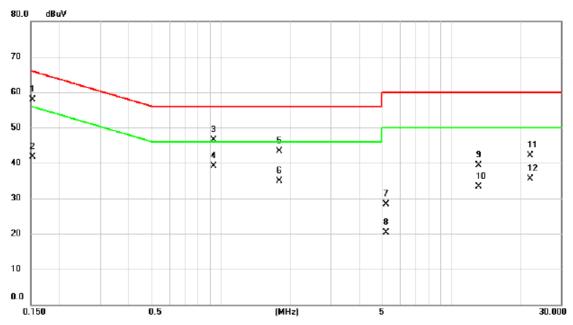


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1522	48.46	9.65	58.11	65.88	-7.77	QP	
2		0.1522	32.29	9.65	41.94	55.88	-13.94	AVG	
3		0.3097	41.28	9.66	50.94	59.98	-9.04	QP	
4		0.3097	35.96	9.66	45.62	49.98	-4.36	AVG	
5		0.9307	38.59	9.71	48.30	56.00	-7.70	QP	
6	*	0.9307	32.23	9.71	41.94	46.00	-4.06	AVG	
7		5.0460	19.71	9.86	29.57	60.00	-30.43	QP	
8		5.0460	12.90	9.86	22.76	50.00	-27.24	AVG	
9		13.2360	27.64	10.04	37.68	60.00	-22.32	QP	
10		13.2360	19.38	10.04	29.42	50.00	-20.58	AVG	
11		22.0740	22.53	10.19	32.72	60.00	-27.28	QP	
12		22.0740	14.23	10.19	24.42	50.00	-25.58	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	Idle	Tested Date	2022/12/21
Test Frequency	-	Phase	Line

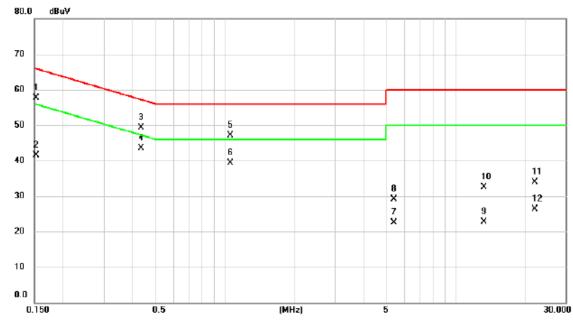


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1522	48.32	9.64	57.96	65.88	-7.92	QP	
2		0.1522	32.05	9.64	41.69	55.88	-14.19	AVG	
3		0.9330	36.89	9.70	46.59	56.00	-9.41	QP	
4	*	0.9330	29.35	9.70	39.05	46.00	-6.95	AVG	
5		1.7970	33.55	9.73	43.28	56.00	-12.72	QP	
6		1.7970	25.24	9.73	34.97	46.00	-11.03	AVG	
7		5.2125	18.44	9.85	28.29	60.00	-31.71	QP	
8		5.2125	10.51	9.85	20.36	50.00	-29.64	AVG	
9		13.2045	29.34	9.98	39.32	60.00	-20.68	QP	
10		13.2045	23.32	9.98	33.30	50.00	-16.70	AVG	
11		21.9975	32.12	10.04	42.16	60.00	-17.84	QP	
12		21.9975	25.37	10.04	35.41	50.00	-14.59	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



T	est Mode	Idle	Tested Date	2022/12/21
T	est Frequency	-	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1522	47.98	9.65	57.63	65.88	-8.25	QP	
2		0.1522	31.85	9.65	41.50	55.88	-14.38	AVG	
3		0.4357	39.70	9.67	49.37	57.14	-7.77	QP	
4	*	0.4357	33.76	9.67	43.43	47.14	-3.71	AVG	
5		1.0611	37.44	9.71	47.15	56.00	-8.85	QP	
6		1.0611	29.50	9.71	39.21	46.00	-6.79	AVG	
7		5.4082	12.65	9.87	22.52	60.00	-37.48	QP	
8		5.4082	19.26	9.87	29.13	50.00	-20.87	AVG	
9		13.2247	12.58	10.04	22.62	60.00	-37.38	QP	
10		13.2247	22.38	10.04	32.42	50.00	-17.58	AVG	
11		22.0335	23.68	10.19	33.87	60.00	-26.13	QP	
12		22.0335	16.04	10.19	26.23	50.00	-23.77	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

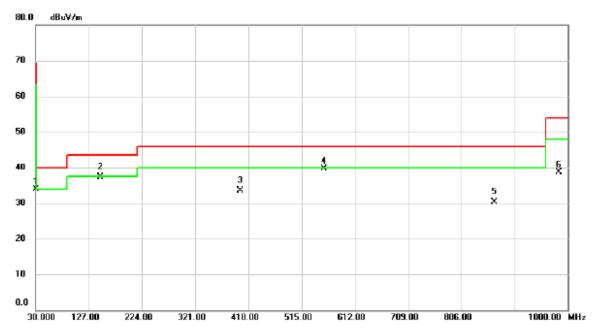


# APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Project No.: 2211C022 Page 27 of 42 Report Version: R01



Test Mode	IEEE 802.11b	Test Date	2023/1/19
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

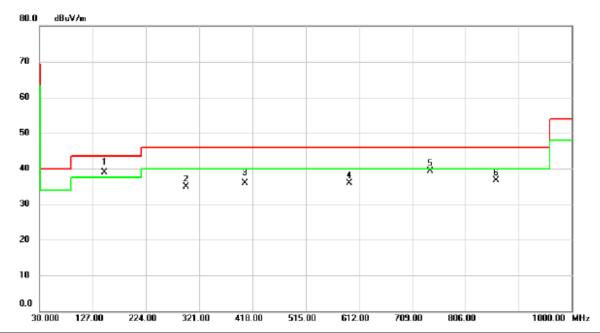


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	30.0000	46.77	-12.81	33.96	40.00	-6.04	peak	
2		148.5016	49.18	-11.90	37.28	43.50	-6.22	QP	
3		403.5147	42.28	-8.68	33.60	46.00	-12.40	QP	
4		555.3197	45.07	-5.44	39.63	46.00	-6.37	peak	
5		865.7520	30.65	-0.28	30.37	46.00	-15.63	QP	
6		983.5100	37.54	1.12	38.66	54.00	-15.34	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	IEEE 802.11b	Test Date	2023/1/19
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	148.5016	50.86	-11.90	38.96	43.50	-4.54	QP	
2		296.9763	46.38	-11.51	34.87	46.00	-11.13	peak	
3		404.3877	44.53	-8.65	35.88	46.00	-10.12	QP	
4		593.9903	40.28	-4.34	35.94	46.00	-10.06	peak	
5		742.4973	41.06	-1.74	39.32	46.00	-6.68	peak	
6		862.6803	37.02	-0.30	36.72	46.00	-9.28	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

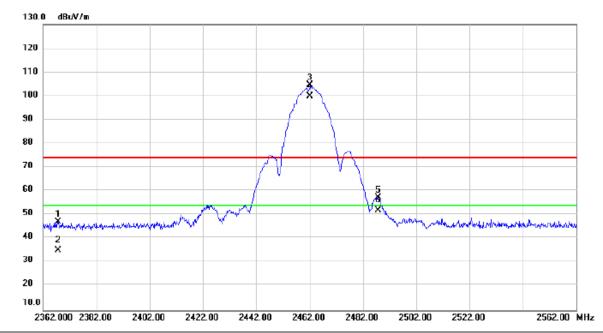


# APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

Project No.: 2211C022 Page 30 of 42 Report Version: R01



Test Mode	IEEE 802.11b	Test Date	2022/12/5
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

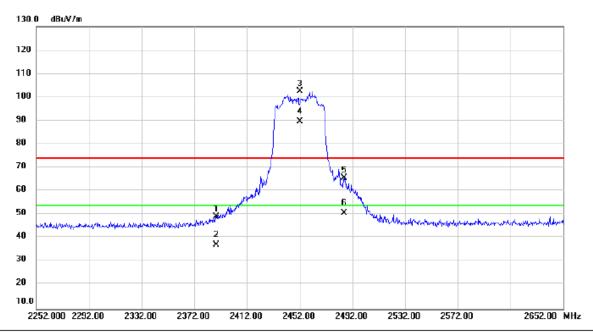


No.	М	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2367.607	52.98	-5.80	47.18	74.00	-26.82	peak	
2		2367.607	40.73	-5.80	34.93	54.00	-19.07	AVG	
3	Χ	2462.000	110.42	-5.68	104.74	74.00	30.74	peak	No Limit
4	*	2462.000	105.57	-5.68	99.89	54.00	45.89	AVG	No Limit
5		2487.647	62.79	-5.63	57.16	74.00	-16.84	peak	
6		2487.647	57.45	-5.63	51.82	54.00	-2.18	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode	IEEE 802.11ax(HE40)	Test Date	2022/12/5
Test Frequency	2452MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

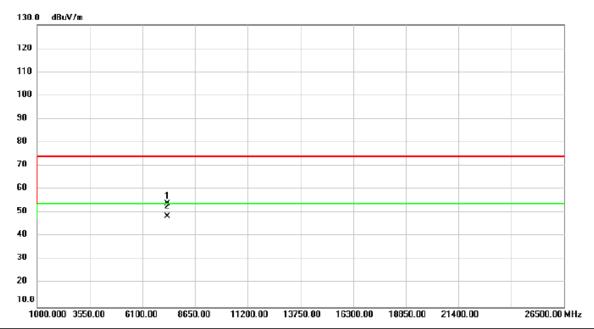


N	0.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	2	2388.773	54.98	-5.77	49.21	74.00	-24.79	peak	
	2	2	2388.773	43.05	-5.77	37.28	54.00	-16.72	AVG	
	3	X 2	2452.000	108.33	-5.69	102.64	74.00	28.64	peak	No Limit
-	4	* 2	2452.000	95.20	-5.69	89.51	54.00	35.51	AVG	No Limit
	5	2	2485.787	71.37	-5.63	65.74	74.00	-8.26	peak	
	6	2	2485.787	56.21	-5.63	50.58	54.00	-3.42	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	IEEE 802.11b	Test Date	2022/12/5
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

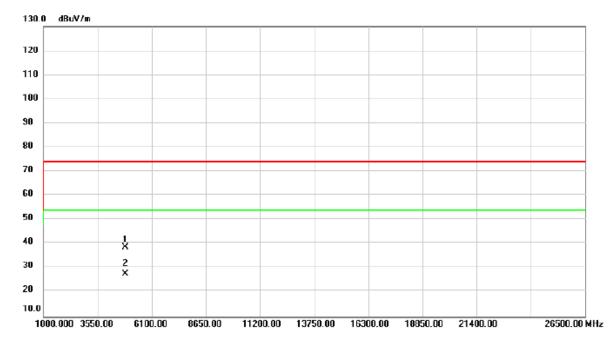


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7311.000	48.27	5.57	53.84	74.00	-20.16	peak	
2	*	7311.000	42.84	5.57	48.41	54.00	-5.59	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	IEEE 802.11b	Test Date	2022/12/5
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%

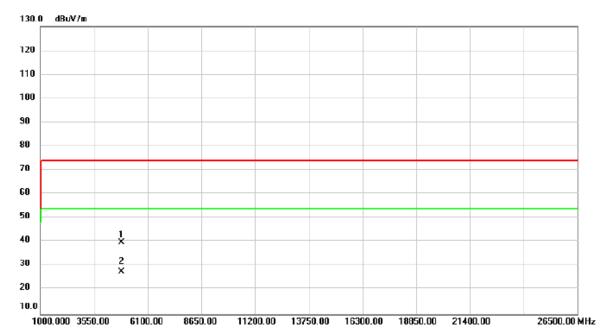


No.	Mk.	Freq.			Measure- ment		Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	37.77	0.89	38.66	74.00	-35.34	peak	
2	*	4874.000	26.58	0.89	27.47	54.00	-26.53	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode	IEEE 802.11ax(HE40)	Test Date	2022/12/5
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	59%

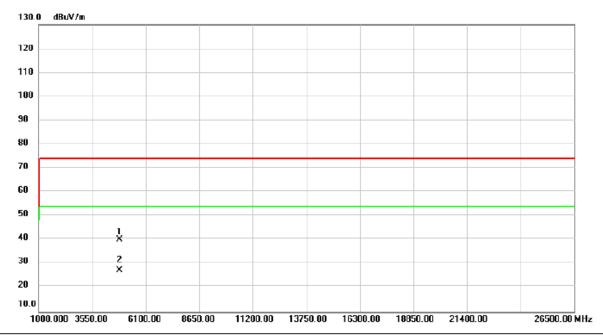


No.	М	c. Freq.		Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	38.88	0.89	39.77	74.00	-34.23	peak	
2	*	4874.000	26.73	0.89	27.62	54.00	-26.38	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode	IEEE 802.11ax(HE40)	Test Date	2022/12/5
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	M	k. Freq.		Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.21	0.89	40.10	74.00	-33.90	peak	
2	*	4874.000	26.42	0.89	27.31	54.00	-26.69	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





		Report No.: BTL-FCCF-3-2211C022
	APPENDIX D	OUTPUT POWER

Project No.: 2211C022 Page 37 of 42 Report Version: R01



1.0000

Complies



2472

18.07

Test Mode	IEEE 802.11b_Main Ant.			Tested Date	2022/11/25			
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result			
2412	23.32	0.2148	30.00	1.0000	Complies			
2437	23.77	0.2382	30.00	1.0000	Complies			
2462	23.92	0.2466	30.00	1.0000	Complies			
2467	21.55	0.1429	30.00	1.0000	Complies			
2472	18.10	0.0646	30.00	1.0000	Complies			

Test Mode	IEEE 802.11b_Aux Ant.			Tested Date 2	2022/11/25			
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result			
2412	23.49	0.2234	30.00	1.0000	Complies			
2437	24.01	0.2518	30.00	1.0000	Complies			
2462	22.98	0.1986	30.00	1.0000	Complies			
2467	22.24	0.1675	30.00	1.0000	Complies			
2472	18.27	0.0671	30.00	1.0000	Complies			

Test Mode	IEEE 802.11g_Main Ant.			Tested Date	2022/11/25			
Frequency	Conducted Power	Conducted Power	Limit	Limit	Result			
(MHz)	(dBm)	(W)	(dBm)	(W)	Nesuit			
2412	23.19	0.2084	30.00	1.0000	Complies			
2437	24.45	0.2786	30.00	1.0000	Complies			
2462	22.28	0.1690	30.00	1.0000	Complies			
2467	20.79	0.1199	30.00	1.0000	Complies			

30.00

0.0641

Test Mode	IEEE 802.11g_Aux Ant.			Tested Date	2022/11/25	
Frequency	Conducted Power	Conducted Power	Limit	Limit		
(MHz)	(dBm)	(W)	(dBm)	(W)	Result	
2412	23.19	0.2084	30.00	1.0000	Complies	
2437	24.35	0.2723	30.00	1.0000	Complies	
2462	22.27	0.1687	30.00	1.0000	Complies	
2467	21.06	0.1276	30.00	1.0000	Complies	
2472	18.88	0.0773	30.00	1.0000	Complies	



Test Mode IEEE	802.11n (HT20)_Main Ant.	Tested Date	2022/11/25
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Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(VV)	(dBm)	(W)	Nesuit
2412	21.69	0.1476	30.00	1.0000	Complies
2437	23.53	0.2254	30.00	1.0000	Complies
2462	21.55	0.1429	30.00	1.0000	Complies
2467	17.83	0.0607	30.00	1.0000	Complies
2472	16.46	0.0443	30.00	1.0000	Complies

Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(VV)	(dBm)	(W)	rtesuit
2412	21.96	0.1570	30.00	1.0000	Complies
2437	24.13	0.2588	30.00	1.0000	Complies
2462	21.93	0.1560	30.00	1.0000	Complies
2467	17.95	0.0624	30.00	1.0000	Complies
2472	16.68	0.0466	30.00	1.0000	Complies

Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	24.84	0.3046	30.00	1.0000	Complies
2437	26.85	0.4842	30.00	1.0000	Complies
2462	24.75	0.2988	30.00	1.0000	Complies
2467	20.90	0.1230	30.00	1.0000	Complies
2472	19.58	0.0908	30.00	1.0000	Complies



Test Mode IEEE 802.11n (HT40) _Main Ant.	Tested Date	2022/11/25
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Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2422	22.16	0.1644	30.00	1.0000	Complies
2437	22.40	0.1738	30.00	1.0000	Complies
2452	21.13	0.1297	30.00	1.0000	Complies
2457	16.15	0.0412	30.00	1.0000	Complies
2462	17.10	0.0513	30.00	1.0000	Complies

Test Mode IEEE 802.11n (HT40) _Aux Ant. Tested Date 2022/1	1/25
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	22.31	0.1702	30.00	1.0000	Complies
2437	22.42	0.1746	30.00	1.0000	Complies
2452	21.40	0.1380	30.00	1.0000	Complies
2457	16.34	0.0431	30.00	1.0000	Complies
2462	17.27	0.0533	30.00	1.0000	Complies

Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2422	25.25	0.3347	30.00	1.0000	Complies
2437	25.42	0.3484	30.00	1.0000	Complies
2452	24.28	0.2678	30.00	1.0000	Complies
2457	19.26	0.0843	30.00	1.0000	Complies
2462	20.20	0.1046	30.00	1.0000	Complies



Test Mode IEEE 802.11ax (HE20) _Main Ant.	Tested Date	2022/11/25
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Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	21.99	0.1581	30.00	1.0000	Complies
2437	23.46	0.2218	30.00	1.0000	Complies
2462	21.83	0.1524	30.00	1.0000	Complies
2467	17.94	0.0622	30.00	1.0000	Complies
2472	16.43	0.0440	30.00	1.0000	Complies

Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(VV)	(dBm)	(W)	rtoodit
2412	22.13	0.1633	30.00	1.0000	Complies
2437	24.02	0.2523	30.00	1.0000	Complies
2462	22.12	0.1629	30.00	1.0000	Complies
2467	17.84	0.0608	30.00	1.0000	Complies
2472	16.90	0.0490	30.00	1.0000	Complies

Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	25.07	0.3214	30.00	1.0000	Complies
2437	26.76	0.4742	30.00	1.0000	Complies
2462	24.99	0.3153	30.00	1.0000	Complies
2467	20.90	0.1230	30.00	1.0000	Complies
2472	19.68	0.0929	30.00	1.0000	Complies





Test Mode IEEE 802.11ax (HE40)_Main Ant.	Tested Date	2022/11/25
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Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Nesuit
2422	22.00	0.1585	30.00	1.0000	Complies
2437	22.93	0.1963	30.00	1.0000	Complies
2452	22.29	0.1694	30.00	1.0000	Complies
2457	16.10	0.0407	30.00	1.0000	Complies
2462	17.32	0.0540	30.00	1.0000	Complies

Frequency	Conducted Power	Conducted Power	Limit	Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2422	22.36	0.1722	30.00	1.0000	Complies
2437	22.99	0.1991	30.00	1.0000	Complies
2452	22.77	0.1892	30.00	1.0000	Complies
2457	16.54	0.0451	30.00	1.0000	Complies
2462	17.84	0.0608	30.00	1.0000	Complies

Test Mode	IEEE 802.11ax (HE40)_Total	Tested Date	2022/11/25

Frequency	Conducted Power	Conducted Power	Limit	Limit	Dogult
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2422	25.19	0.3307	30.00	1.0000	Complies
2437	25.97	0.3954	30.00	1.0000	Complies
2452	25.55	0.3587	30.00	1.0000	Complies
2457	19.34	0.0858	30.00	1.0000	Complies
2462	20.60	0.1148	30.00	1.0000	Complies

### **End of Test Report**