



## **FCC Radio Test Report**

FCC ID: G95UCW4060MCS

Report No. : BTL-FCCP-2-2306C197

**Equipment** : Set Top Box Model Name : UCW4060MCS

Brand Name : Vantiva

**Applicant**: Vantiva USA LLC

Address : 4855 Peachtree Industrial Blvd, Suite 200, Norcross, GA 30092, USA

Manufacturer : Vantiva USA LLC

Address : 4855 Peachtree Industrial Blvd, Suite 200, Norcross, GA 30092, USA

Factory : PT PEGATRON TECHNOLOGY INDONESIA

Address : Jalan Beringin Lot 2/Lot 5, Kawasan industrial Batamindo, Kel Mukakuning

Kec Sei Beduk, Kota Batam Kepulauan, Batam, 29433, Indonesia

Radio Function : Bluetooth Low Energy (5.0)

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

Measurement Procedure(s)

: ANSI C63.10-2013

Date of Receipt : 2023/7/4

**Date of Test** : 2023/7/18 ~ 2023/7/28

**Issued Date** : 2023/8/15

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

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### **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.

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**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.

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### **REVISION HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2306C197	R00	Original Report.	2023/8/15	Valid

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### **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)(2)	Bandwidth	APPENDIX D	Pass	
15.247(b)(3)	Output Power	APPENDIX E	Pass	
15.247(e)	Power Spectral Density	APPENDIX F	Pass	
15.247(d)	Antenna conducted Spurious Emission	APPENDIX G	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.

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### 1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

(FCC DN: TW0659)

□ C05 □ CB08

□ CB11

⊠ SR10

☐ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

(FCC DN: TW0659)

⊠ CB21

□ CB22

### 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)
C06	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
CDZT	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

### C. Conducted test:

1 1001 .				
Test Item	U (dB)			
Occupied Bandwidth	0.5334			
Output power	0.3669			
Power Spectral Density	0.6591			
Conducted Spurious emissions	0.5416			
Conducted Band edges	0.5348			

### NOTE:

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

### 1.3 TEST ENVIRONMENT CONDITIONS

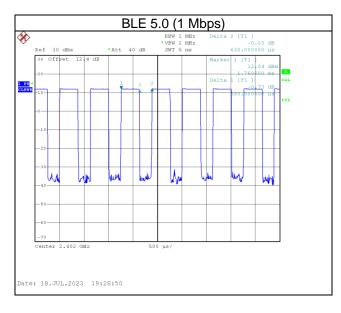
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	26 °C, 52 %	AC 120V	Cora Lin
Radiated emissions below 1 GHz	24 °C, 53 %	AC 120V	Mark Wang
Radiated emissions above 1 GHz	23 °C, 50 %	AC 120V	Mark Wang
Bandwidth	24.2 °C, 40 %	AC 120V	Jay Tien
Output Power	24.2 °C, 40 %	AC 120V	Jay Tien
Power Spectral Density	24.2 °C, 40 %	AC 120V	Jay Tien
Antenna conducted Spurious Emission	24.2 °C, 40 %	AC 120V	Jay Tien



### 1.4 DUTY CYCLE

If duty cycle is  $\geq$  98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mada	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle	Duty Factor
Mode	(ms)	(ON)	(ms)	(ms)	(%)	(dB)
BLE 5.0 (1 Mbps)	0.380	1	0.380	0.630	60.32%	2.20



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### 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

Equipment	Set Top Box
Model Name	UCW4060MCS
Brand Name	Vantiva
Model Difference	N/A
Power Source	DC voltage supplied from AC/DC Adapter.
Power Rating	I/P: 120V~0.5A 60Hz O/P: 12V===1.5A 18W
Products Covered	1 * Adapter: CHICONY POWER TECHNOLOGY CO LTD / EPS10R4-15
HW Version	Rev B (LAB2)
SW Version	HC_2.0
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Transfer Rate	1 Mbps
Output Power Max.	11.99 dBm (0.0158 W)
Operating Software	Tera Term v4.97
Test Model	UCW4060MCS
Sample Status	Engineering Sample
EUT Modification(s)	N/A

### 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.

### (2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

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(3) Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Frequency (MHz)	Gain (dBi)
BT	N/A	N/A	Printed	N/A	2400-2483.5	3.03

(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.

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### 2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	1 Mbps	19	-
Transmitter Radiated Emissions	1 Mbps	00/39	Bandedge
(above 1GHz)	1 Mbps	00/19/39	Harmonic
Bandwidth	1 Mbps	00/19/39	-
Output Power	1 Mbps	00/19/39	-
Power Spectral Density	1 Mbps	00/19/39	-
Antenna conducted Spurious Emission	1 Mbps	00/19/39	-

### NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

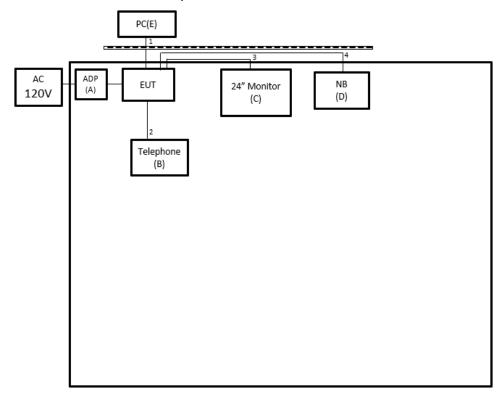
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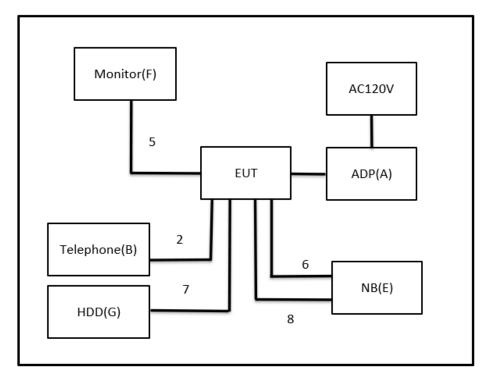
### 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



**Radiated Emissions** 



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### 2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	ADAPTER	CHICONY POWER TECHNOLO GY CO LTD	EPS10R4-15	CS10E222AC260	Supplied by test requester
В	Telephone	Sweetone	RS-802HF	N/A	Furnished by test lab.
С	24" Monitor	DELL	P2415Qb	CN-0J1P7F-QDC00- 7BH-1L19B-A06	Furnished by test lab.
D	NB	HP	TPN-I119	N/A	Furnished by test lab.
E	NB	Asus	B500-P45VA-0141A32 30M	N/A	Furnished by test lab.
F	27" Monitor	DELL	U2720Q	CN-0834VF-WSL00- 0B7-299L-A05	Furnished by test lab.
G	USB 3.0 HDD	WD	WDBC3C0010BSL-0B	WX81A88ALJUC	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	6m	RJ45 Cable	Furnished by test lab.
2	No	No	1m	RJ 11	Furnished by test lab.
3	No	No	1.7m	HDMI Cable	Furnished by test lab.
4	No	No	1.7m	HDMI Cable	Furnished by test lab.
5	No	No	1.8m	HDMI Cable	Furnished by test lab.
6	No	No	1m	RJ45 Cable	Furnished by test lab.
7	No	No	1m	USB3.0 TO USB	Furnished by test lab.
8	No	No	1m	HDMI Cable	Furnished by test lab.



### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

### 3.1 LIMIT

Frequency	Limit (	dΒμV)
(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	=	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.

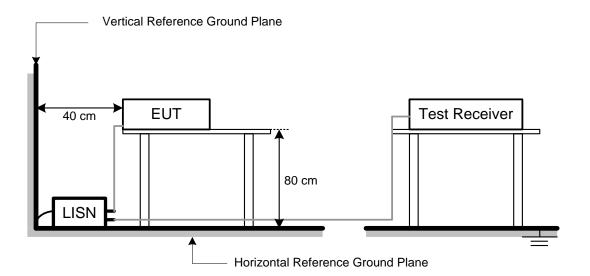
### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

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### 3.4 TEST SETUP



### 3.5 TEST RESULT

Please refer to the APPENDIX A.



### **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)

EIMITO OF TO ABILITIES EIMIOOFOTIC	EIMITO OF TATIBIATED EMIGOROTO METOOREMENT (STATE to 1000 MITZ)					
Frequency	Field Strength	Measurement Distance				
(MHz)	(microvolts/meter)	(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		
(IVITIZ)	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	
41.91	+	-8.36	II	33.55	

Measurement Value		Limit Value		Margin Level
33.55	-	43.50	=	-9.95

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

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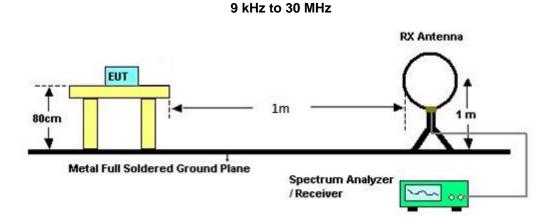
### 4.2 TEST PROCEDURE

- 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.

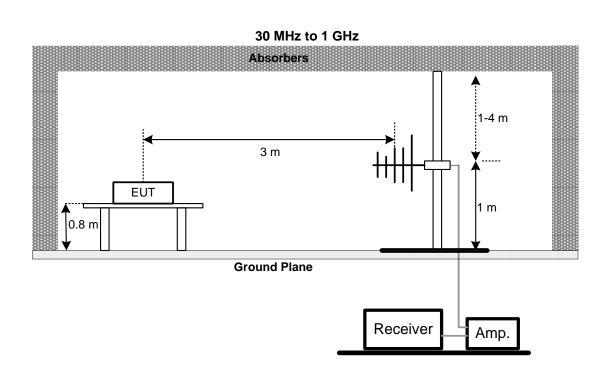
### 4.3 DEVIATION FROM TEST STANDARD

No deviation.

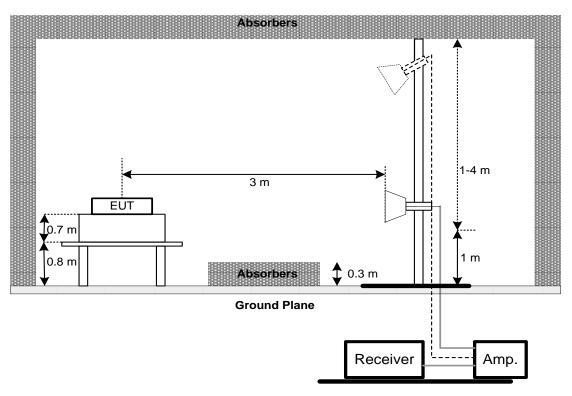
### 4.4 TEST SETUP







### Above 1 GHz





### 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.

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### **5 BANDWIDTH TEST**

### 5.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	>= 500KHz	2400-2483.5	PASS	
13.2π/(α)(2)	Danawidin	(6dB bandwidth)	2400 2403.3	FAGG	

### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 5.6 TEST RESULTS

Please refer to the APPENDIX D.

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### **6 OUTPUT POWER TEST**

### 6.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

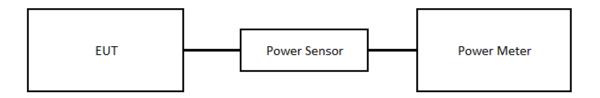
### 6.2 TEST PROCEDURE

- 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.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 6.6 TEST RESULTS

Please refer to the APPENDIX E.



### 7 POWER SPECTRAL DENSITY TEST

### 7.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 7.6 TEST RESULTS

Please refer to the APPENDIX F.

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### 8 ANTENNA CONDUCTED SPURIOUS EMISSION

### 8.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

### 8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 8.6 TEST RESULTS

Please refer to the APPENDIX G.

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### 9 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	101497	2023/5/18	2024/5/17
2	Test Cable	EMCI	EMC400-BM-BM- 5000	170501	2022/8/3	2023/8/2
3	EMI Test Receiver	R&S	ESR3	102950	2023/4/12	2024/4/11
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	2023/3/7	2024/3/6		
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2022/9/28	2023/9/27		
4	Preamplifier	EMCI	EMC001340	980579	2022/9/30	2023/9/29		
5	Test Cable	EMCI	EMC104-SM-100 0	180809	2023/7/10	2024/7/9		
6	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2023/3/14	2024/3/13		
7	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2023/3/14	2024/3/13		
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23		
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2022/9/19	2023/9/18		
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2023/5/12	2024/5/11		
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2023/5/12	2024/5/11		
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8		
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8		
14	Test Cable	EMCI	EMC101G-KM-K M-3000	220329	2023/3/14	2024/3/13		
15	Test Cable	EMCI	EMC102-KM-KM- 1000	220327	2023/3/14	2024/3/13		
16	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A		

	Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/26	

	Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2023/5/12	2024/5/11
2	Power Sensor	Anritsu	MA2411B	1126001	2023/5/12	2024/5/11



	Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/26

	Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/26	

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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10 EUT TEST PHOTO					
Please refer to document Appendix No.: TP-2306C197-FCCP-1 (APPENDIX-TEST PHOTOS).					
11 EUT PHOTOS					
Please refer to document Appendix No.: EP-2306C197-1 (APPENDIX-EUT PHOTOS).					

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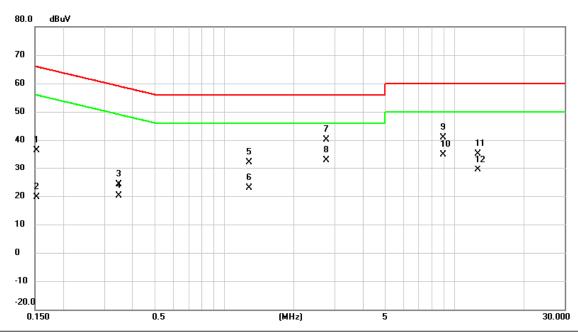


APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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Test Mode	Normal	Tested Date	2023/7/11
Test Frequency	-	Phase	Line

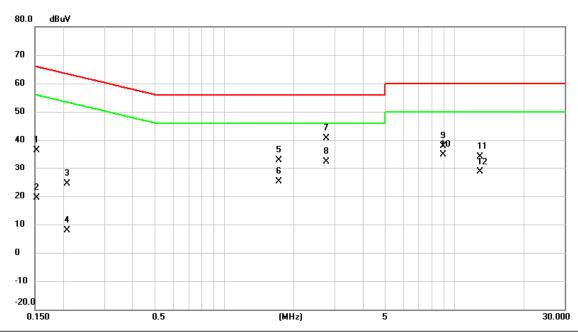


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		0.1522	36.31	0.03	36.34	65.88	-29.54	QР	
2		0.1522	19.51	0.03	19.54	55.88	-36.34	AVG	
3		0.3480	24.10	0.04	24.14	59.01	-34.87	QP	
4		0.3480	20.00	0.04	20.04	49.01	-28.97	AVG	
5		1.2840	31.98	0.06	32.04	56.00	-23.96	QP	
6		1.2840	22.72	0.06	22.78	46.00	-23.22	AVG	
7		2.7577	39.95	0.11	40.06	56.00	-15.94	QP	
- 8	*	2.7577	32.70	0.11	32.81	46.00	-13.19	AVG	
9		8.9385	40.69	0.18	40.87	60.00	-19.13	QP	
10		8.9385	34.71	0.18	34.89	50.00	-15.11	AVG	
11		12.6060	35.02	0.21	35.23	60.00	-24.77	QP	
12		12.6060	29.11	0.21	29.32	50.00	-20.68	AVG	

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



Test Mode	Normal	Tested Date	2023/7/11
Test Frequency	-	Phase	Neutral

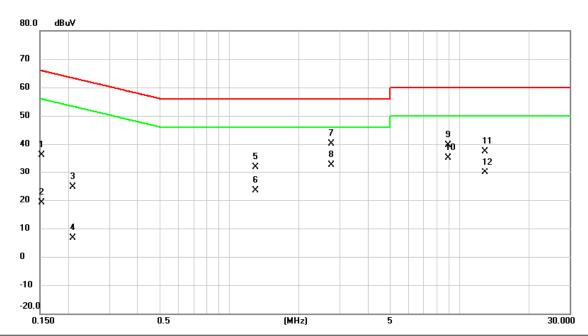


No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1522	36.25	0.03	36.28	65.88	-29.60	QР	
2	0.1522	19.38	0.03	19.41	55.88	-36.47	AVG	
3	0.2072	24.39	0.05	24.44	63.32	-38.88	QP	
4	0.2072	7.87	0.05	7.92	53.32	-45.40	AVG	
5	1.7205	32.73	0.08	32.81	56.00	-23.19	QP	
6	1.7205	25.03	0.08	25.11	46.00	-20.89	AVG	
7	2.7645	40.41	0.11	40.52	56.00	-15.48	QP	
8 *	2.7645	32.32	0.11	32.43	46.00	-13.57	AVG	
9	8.9408	37.79	0.18	37.97	60.00	-22.03	QP	
10	8.9408	34.78	0.18	34.96	50.00	-15.04	AVG	
11	12.9120	33.81	0.21	34.02	60.00	-25.98	QP	
12	12.9120	28.39	0.21	28.60	50.00	-21.40	AVG	

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



Test Mode	Idle	Tested Date	2023/7/11
Test Frequency	-	Phase	Line

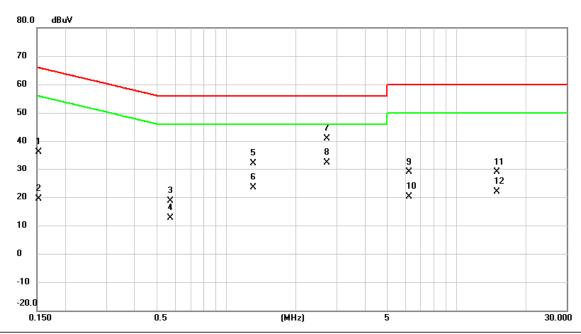


No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1522	36.08	0.03	36.11	65.88	-29.77	QР	
2	0.1522	19.22	0.03	19.25	55.88	-36.63	AVG	
3	0.2085	24.48	0.05	24.53	63.26	-38.73	QP	
4	0.2085	6.67	0.05	6.72	53.26	-46.54	AVG	
5	1.3020	31.82	0.06	31.88	56.00	-24.12	QP	
6	1.3020	23.35	0.06	23.41	46.00	-22.59	AVG	
7	2.7645	40.05	0.11	40.16	56.00	-15.84	QP	
8 *	2.7645	32.46	0.11	32.57	46.00	-13.43	AVG	
9	8.9408	39.56	0.18	39.74	60.00	-20.26	QP	
10	8.9408	34.96	0.18	35.14	50.00	-14.86	AVG	
11	12.9120	37.15	0.21	37.36	60.00	-22.64	QP	
12	12.9120	29.77	0.21	29.98	50.00	-20.02	AVG	

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



Test Mode	Idle	Tested Date	2023/7/11
Test 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	36.13	0.03	36.16	65.88	-29.72	QР	
2		0.1522	19.27	0.03	19.30	55.88	-36.58	AVG	
3		0.5730	18.49	0.05	18.54	56.00	-37.46	QP	
4		0.5730	12.51	0.05	12.56	46.00	-33.44	AVG	
5		1.3065	32.18	0.06	32.24	56.00	-23.76	QР	
6		1.3065	23.36	0.06	23.42	46.00	-22.58	AVG	
7		2.7330	40.84	0.10	40.94	56.00	-15.06	QP	
8	*	2.7330	32.39	0.10	32.49	46.00	-13.51	AVG	
9		6.2273	28.84	0.16	29.00	60.00	-31.00	QP	
10		6.2273	20.07	0.16	20.23	50.00	-29.77	AVG	
11		14.9235	28.59	0.23	28.82	60.00	-31.18	QP	
12		14.9235	21.56	0.23	21.79	50.00	-28.21	AVG	

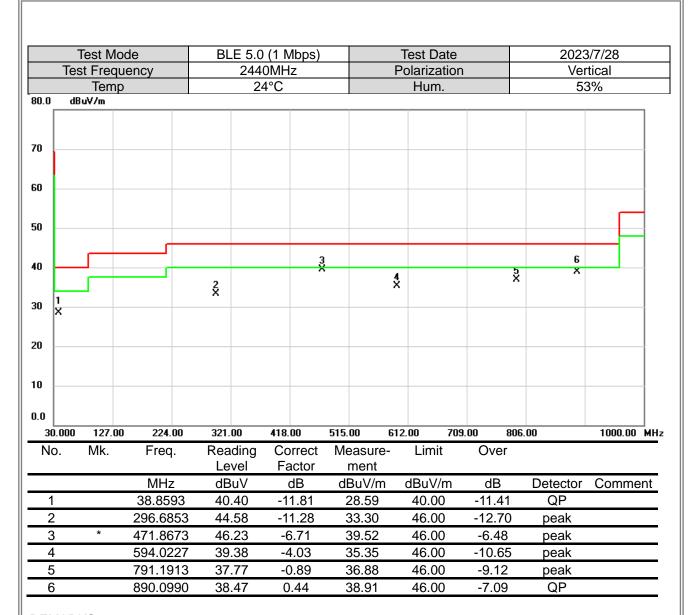
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



# APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

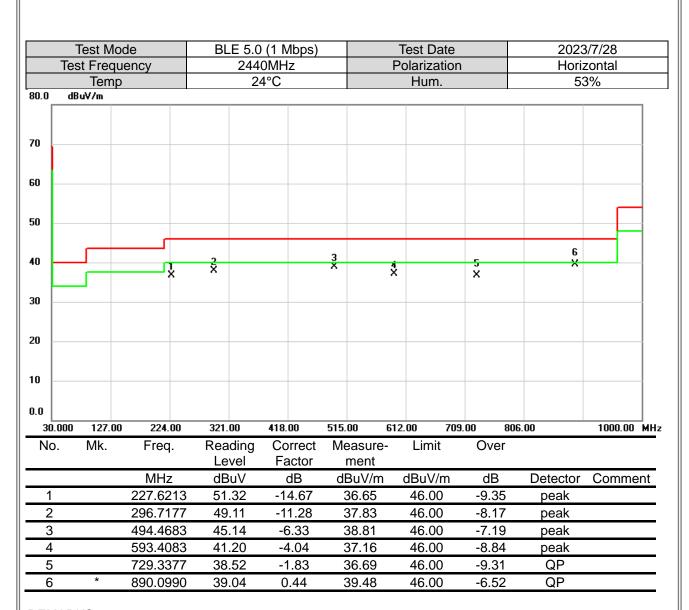
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- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





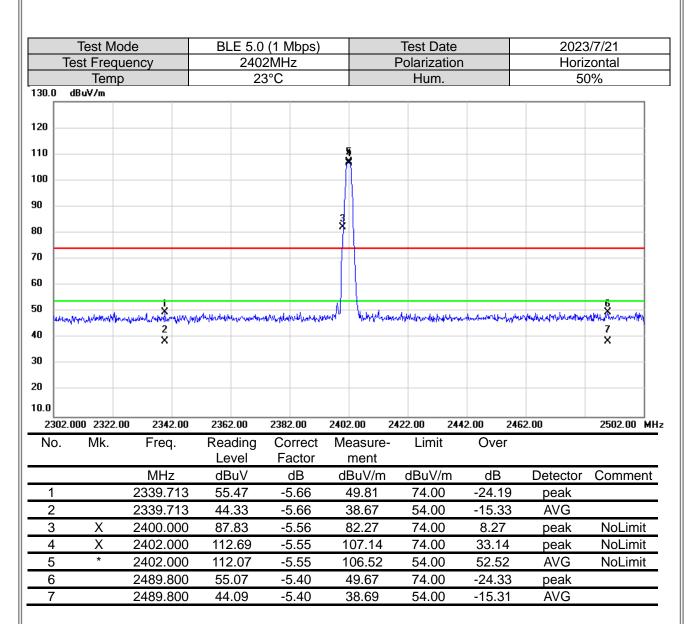
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



## APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

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



	Test Mo	de	BLE 5.0	(1 Mbps)		Test Date		2023	3/7/21	
Te	est Frequ	iency	248	0MHz		Polarization	1	Horizontal		
	Temp	1	2	3°C		Hum.		50	0%	
130.0	dBuV/m									
120										
110										
					Ħ					
00										
10										
30										
70										
					[]					
60 —										
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	~ Produced representation	hillen-grighten-tekning-grighteste	application party and application to	why of what the affect of the con-	with huntipo	yphr-highliteyrana, neferdi	didang pendang	Alexandria de la companya de la comp	**************************************	
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40 2 X 30 20									6 ×	
2 X 30 20 10.0 2380.0	000 2400.0	0 2420.00	2440.00	2460.00	2480.00 2	500.00 252	20.00 254	et oorwingteer/egsphis.in/	6 X 2580.00	
40 2 X 30 20			2440.00 Reading	2460.00 Correct	2480.00 2 Measure-				×	
20 2380.0	000 2400.0	0 2420.00 Freq.	2440.00 Reading Level	2460.00 Correct Factor	2480.00 2 Measure- ment	500.00 252 Limit	20.00 254 Over	0.00	2580.00	мн:
20 2 20 2380.0	000 2400.0	0 2420.00 Freq. MHz	2440.00 Reading Level dBuV	2460.00 Correct Factor dB	2480.00 2 Measure- ment dBuV/m	500.00 252 Limit dBuV/m	20.00 254 Over dB	0.00 Detector	×	мн
2 X 80 0 0.0 2380.0 No.	000 2400.0	0 2420.00 Freq. MHz 2383.073	2440.00 Reading Level dBuV 55.92	2460.00 Correct Factor dB -5.58	2480.00 2 Measure- ment dBuV/m 50.34	500.00 252 Limit dBuV/m 74.00	20.00 254 Over dB -23.66	0.00  Detector peak	2580.00	мн
2 X 80 20 2380.1 No.	000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.073 2383.073	2440.00 Reading Level dBuV 55.92 43.75	2460.00 Correct Factor dB -5.58 -5.58	2480.00 2 Measure- ment dBuV/m 50.34 38.17	500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -23.66 -15.83	Detector peak AVG	2580.00 N	MH.
20 20 2380.6 No.	000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.073 2383.073 2480.000	2440.00 Reading Level dBuV 55.92 43.75 112.92	2460.00 Correct Factor dB -5.58 -5.58 -5.41	2480.00 2 Measure- ment dBuV/m 50.34 38.17 107.51	500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -23.66 -15.83 33.51	Detector peak AVG peak	2580.00 I	MH nt
280.0 2380.0 No.	000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.073 2383.073 2480.000 2480.000	2440.00 Reading Level dBuV 55.92 43.75 112.92 112.28	2460.00 Correct Factor dB -5.58 -5.58 -5.41 -5.41	2480.00 2 Measure- ment dBuV/m 50.34 38.17 107.51 106.87	500.00 252 Limit dBuV/m 74.00 54.00 74.00 54.00	Over  dB -23.66 -15.83 33.51 52.87	Detector peak AVG peak AVG	2580.00 N	MH nt
20 20 2380.6 No.	000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.073 2383.073 2480.000	2440.00 Reading Level dBuV 55.92 43.75 112.92	2460.00 Correct Factor dB -5.58 -5.58 -5.41	2480.00 2 Measure- ment dBuV/m 50.34 38.17 107.51	500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -23.66 -15.83 33.51	Detector peak AVG peak	2580.00 I	MH:

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



	Test M					(1 Mbps)				est Da				3/7/21	
Te		quency		2		MHz			Po	olarizat	ion			rtical	
130.0 d	Tem BuV/m	ıp			23	°C				Hum.			50	0%	
130.0 0	IBUY/M														
120															
110															
100															
90															
80															
70															
60		1													
50		×													
40															
30															
20															
10.0															
	000 3550		00.00	8650.00		11200.00	1375				18850.0		400.00	26500.00 M	1Hz
No.	Mk.	Fre	q.	Readii Leve		Correct Factor		easure ment	-	Limit	C	Over			
		MH	Z	dBu\	/	dB	dE	3uV/m		dBuV/n	n	dB	Detector	Commen	t
1		4804.	000	51.88	3	0.50	5	52.38		74.00	-2	1.62	peak		_
2	*	4804.	000	47.4°	1	0.50	4	17.91		54.00	-(	6.09	AVG		

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



	Test Mo			(1 Mbps)		Test Date			3/7/21
Ī	Test Frequ			2MHz		Polarization	1		zontal
	Temp	)	2:	3°C		Hum.		50	)%
130.0	dBuV/m								
120									
110 —									
100									
90									
80									
70									
60 _									
50		1 X 2 X							
40		X							
30									
20									
10.0									
	.000 3550.0		8650.00	11200.00				00.00	26500.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	47.99	0.50	48.49	74.00	-25.51	peak	
2	*	4804.000	40.84	0.50	41.34	54.00	-12.66	AVG	

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



	Test Mode			(1 Mbps)		Test Date			3/7/21
Т	est Frequ			0MHz		Polarization	)		tical
130.0	Temp		23	3°C		Hum.		50	)%
130.0	dBuv/m								
120									
110									
100									
90									
80									
70									
60		1							
50		Î Î							
40									
30									
20									
10.0									
	000 3550.0		8650.00	11200.00				100.00	26500.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	52.32	0.73	53.05	74.00	-20.95	peak	
2	*	4880.000	48.62	0.73	49.35	54.00	-4.65	AVG	

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



_	Test Mode Test Frequency			BL		(1 M					Test D					3/7/21		
							0MHz	<u> </u>			<u> </u>	<u>Polariza</u>				Horizontal		
		Temp	)			2	3°C					Hum	١.			50	0%	
130.0	dBu∀	/m																í
120																		
110																		
100																		
90																		
BO																		
~																		
io																		
io			1.															
ю			ž X															
30 <u> </u>																		
20																		
10.0																		
		3550.0			8650		1120			0.00		300.00		50.00		00.00	26500.00	МН
No.	ľ	Лk.	Freq	•	Rea Le			rect ctor		easur ment		Limi	t	Ove	er			
			MHz	<u>-</u>	dB	uV	d	ΙB	dE	3uV/r	n	dBuV	/m	dE	3	Detector	Commer	٦t
1			4880.0	000	45.	27	0.	73		16.00		74.0	0	-28.	00	peak		
2		*	4880.0	000	40.	15	0.	73		10.88		54.0	0	-13.	12	AVG		

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



	Test M					(1 M					Test Da					3/7/21	
10	est Freq					0MHz	<u>'</u>			<u> </u>	olariza					tical	
130.0	Tem	ρ			2.	3°C					Hum	•			5(	0%	
120																	4
110																	4
100																	
30																	
30																	
0																	$\exists$
:0																	-
50		X X															$\exists$
10																	
30																	
20																	
10.0																	
	000 3550.	00 6100	.00	8650.0	00	11200	).00	1375	0.00	163	00.00	188	50.00	2140	0.00	26500.0	 )0 MH
No.	Mk.	Freq.		Read Leve		Cor Fac	rect		easure ment	∋-	Limit	t	Ove	r			
		MHz		dBu		d			3uV/n	า	dBuV/	m	dB		Detector	Comm	ent
1		4960.0	00	51.0	)4	0.9	99	Ę	52.03		74.00		-21.9	97	peak		
2	*	4960.0	00	47.5	6	0.9	99		18.55		54.00	)	-5.4	5	AVG		

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



	Test Mo			.0 (1 Mbps)		Test Date			3/7/21
Te	est Frequ			80MHz		Polarization	า		zontal
	Temp	)		23°C		Hum.		50	0%
130.0	dBuV/m								
120									
110									
100									
90									
80									
70									
60									
50		1 2							
40		X							
30									
20									
10.0	000 3550.0	00 6100.00	0 8650.00	11200.00	13750.00	16300.00 18	850.00 214	00.00	26500.00 MHz
No.	Mk.	Freq.	Reading		Measure-		Over	.00.00	20300.00 MH2
			Level	Factor	ment		<b>0.</b> 0.		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	47.79	0.99	48.78	74.00	-25.22	peak	
2	*	4960.000	41.60	0.99	42.59	54.00	-11.41	AVG	

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



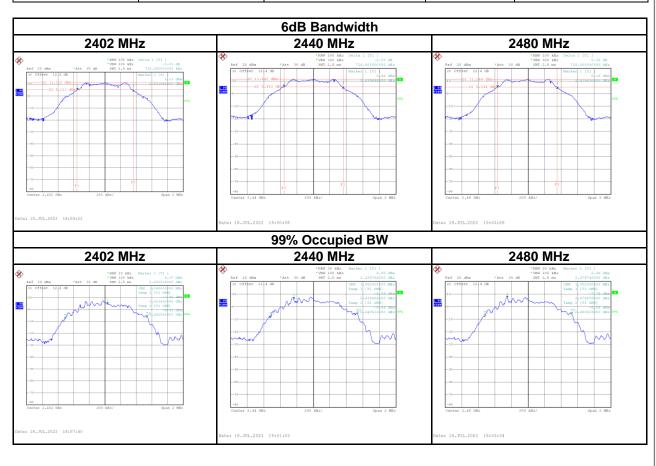
APPENDIX D	BANDWIDTH

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Test Mode: 1Mbps

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.72	1.05	500	Pass
2440	0.72	1.05	500	Pass
2480	0.72	1.05	500	Pass







# APPENDIX E OUTPUT POWER

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Report No.: BTL-FCCP-2-2306C197

	Test Mode :	1Mbps	Tested Date	2023/7/18
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	11.80	0.0151	30.00	1.0000	Pass
2440	11.99	0.0158	30.00	1.0000	Pass
2480	11.86	0.0153	30.00	1.0000	Pass

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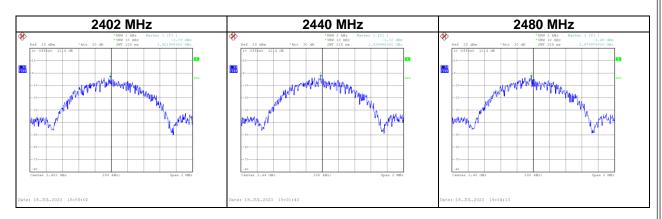
# APPENDIX F POWER SPECTRAL DENSITY TEST

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Test Mode : 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-3.79	8	Pass
2440	-3.32	8	Pass
2480	-3.48	8	Pass





APPENDIX G	ANTENNA CONDUCTED SPURIOUS EMISSION

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