

FCC Radio Test Report

FCC ID: YKBCA0940-044

Report No. Equipment Model Name Brand Name Applicant Address Manufacturer Address Factory Address	 BTL-FCCP-2-2306G021 Network Player CA0940 CAMBRIDGE AUDIO Audio Partnership PLC Gallery Court, Hankey Place, London, SE1 4BB, United Kingdom Audio Partnership PLC Gallery Court, Hankey Place, London, SE1 4BB, United Kingdom Dongguan Kwan Hong Electronics Co., Ltd. No.5, Shichangxiang, Chang'an Town, Dongguan City, Guangdong Province, China
Radio Function	: Bluetooth Low Energy (5.0)
FCC Rule Part(s) Measurement Procedure(s)	 FCC CFR Title 47, Part 15, Subpart C (15.247) ANSI C63.10-2013
Date of Receipt Date of Test Issued Date	: 2023/6/6 : 2023/9/7 ~ 2023/9/8 : 2023/9/26

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

Prepared by

Supervisor

Approved by

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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.

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.



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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2306G021	R00	Original Report.	2023/9/26	Valid

SUMMARY OF TEST RESULTS 1

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:

"N/A" denotes test is not applicable in this Test Report.
 The report format version is TP.1.1.1.



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
 □
 CB11
 ⊠
 SR10

□ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659)

 \Box C06 \boxtimes CB21 \Box 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 $\mathbf{k} = 2$, 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 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
CB21	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)
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

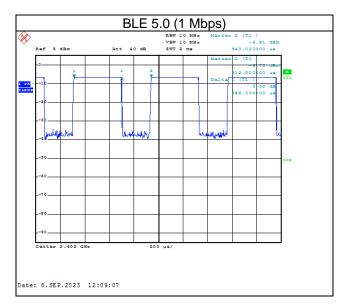
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	21 °C, 45 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	26 °C, 57 %	AC 120V	Mark Wang
Radiated emissions above 1 GHz	26 °C, 57 %	AC 120V	Mark Wang
Bandwidth	23.8 °C, 50 %	AC 120V	Jerry Chuang
Output Power	23.8 °C, 50 %	AC 120V	Jerry Chuang
Power Spectral Density	23.8 °C, 50 %	AC 120V	Jerry Chuang
Antenna conducted Spurious Emission	23.8 °C, 50 %	AC 120V	Jerry Chuang



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)	0.388	1	0.388	0.940	41.28%	3.84



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Network Player
Model Name	CA0940
Brand Name	CAMBRIDGE AUDIO
Model Difference	N/A
Power Source	AC Mains.
Power Rating	I/P: 100-240VAC, 50/60Hz, 30W
Products Covered	1 * Remote control 1 * Power cord
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Transfer Rate	1 Mbps
Output Power Max.	4.88 dBm (0.0031 W)
Test Software Version	BlueSuite 3.3.7
Test Model	CA0940
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



(3) Table for Filed Antenna:

	Table for Flied Antenna.						
Ant.	Brand	Product number	Antenna Type	Connector	Frequency (MHz)	Gain (dBi)	
1	1	YY-JQ01013.A.0	Dipole	SMA	2400-2500	2.61	

(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.



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:

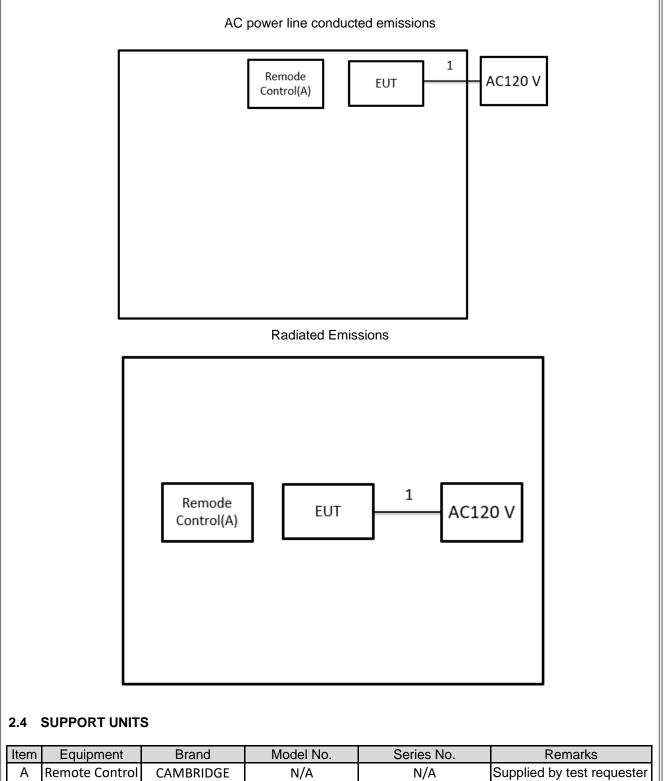
(1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.

(2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.



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.



Item

1

Shielded

No

Ferrite Core

No

Length

2m

Cable Type

Power Cord

Remarks

Supplied by test requester



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

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Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
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Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	Ш	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.
- The LISN is spaced at least 80 cm from the nearest part of the EUT chassis. d
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

NOTE:

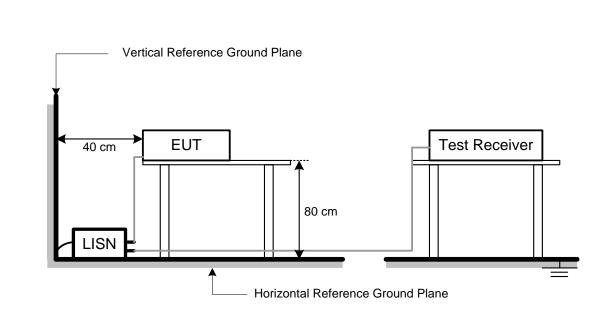
- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.



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)

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 I (dBu	Measurement Distance	
	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	Ш	33.55

Measurement Value		Limit Value		Margin Level
33.55	-	43.50	Ι	-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





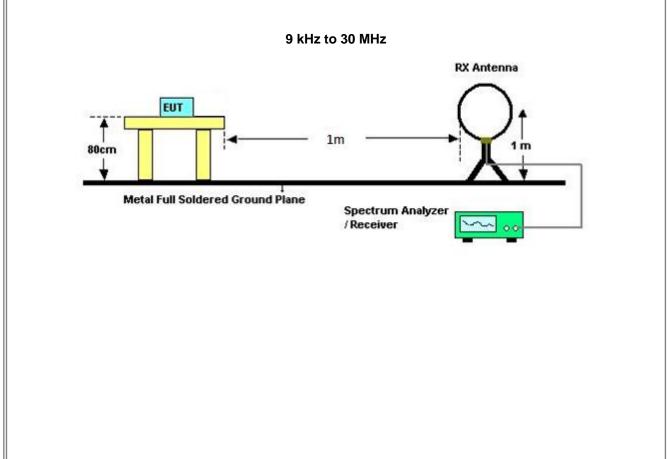
4.2 TEST PROCEDURE

- 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)
- 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.

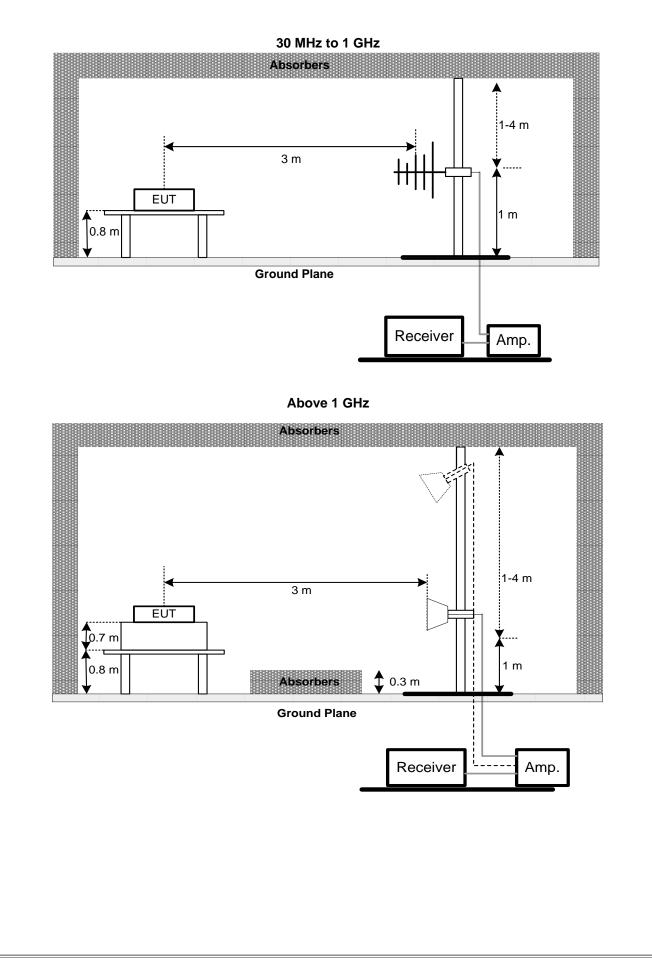
4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP









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.



5 BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

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.



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

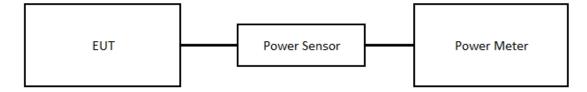
6.2 TEST PROCEDURE

- 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.



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.



9 LIST OF MEASURING EQUIPMENTS

		AC Pow	er Line Conducted	d 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	2023/3/30	2024/3/29
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 Emissio	ons		
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	101139	2023/3/9	2024/3/8

			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



		F	ower Spectral De	ensity		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2023/3/9	2024/3/8

		Antenna	conducted Spurio	ous Emission		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2023/3/9	2024/3/8

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



10 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2306G021-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2306G021-1 (APPENDIX-EUT PHOTOS).



APPENDIX A AC POWER LINE CONDUCTED EMISSIONS



st Mod	e N	lormal						Tested Date	2023/9/8
st Freq	quency -							Phase	Line
80.0	dBuV								
70									
60									
50									
40	1		7					11 X	
30 -	× 3 ×	5	×					9 X 12	2
20	2 ^ X 4	5 × 6	8 ×					10 ×	
10	×	X							
0									
-10									
-20.0									
0.15	ō 0	().5		(MHz)		5		30.000
o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
<u> </u>	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment	
1	0.2017	31.41	0.04	31.45	63.54	-32.09	QP		
2	0.2017	16.57	0.04	16.61	53.54	-36.93	AVG		
3	0.2692	23.91	0.03	23.94	61.14	-37.20	QP		
4	0.2692	13.44	0.03	13.47	51.14	-37.67	AVG		
5	0.3367	21.97	0.02	21.99	59.28	-37.29	QP		
6	0.3367	11.82	0.02	11.84	49.28	-37.44	AVG		
7	0.6045	30.48	0.02	30.50	56.00	-25.50			
-	0.6045	18.11	0.02	18.13	46.00	-27.87	AVG		
				10.20	60.00	-31.62	QP		
9	8.8620	28.28	0.10	28.38					
8 9 0 1 *		28.28 17.25 35.35	0.10 0.10 0.15	20.30 17.35 35.50	50.00 60.00	-32.65	AVG QP		



st Mode	1	Normal						Tested Date	2023/9/8
st Frequ	ency -							Phase	Neutral
80.0	dBu¥								
70									
60									
50									
40									
	1 X		5 X				7 X		
30	3 X 2		6				8	1012	
20	× 4		×				×	××	
10	×								
0									
-10									
-20.0									
0.150).5		(MHz)		5		30.000
lo. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1	0.1883	34.74	0.04	34.78	64.11	-29.33	QP		
2	0.1883	18.27	0.04	18.31	54.11	-35.80	AVG		
3	0.2490	26.32	0.03	26.35	61.79	-35.44	QP		
4	0.2490	10.42	0.03	10.45	51.79	-41.34	AVG		
5 *	0.6045	32.54	0.02	32.56	56.00	-23.44	QP		
6	0.6045	20.43	0.02	20.45	46.00	-25.55	AVG		
7	6.3173	31.34	0.07	31.41	60.00	-28.59	QP		
8	6.3173	20.66	0.07	20.73	50.00	-29.27	AVG		
	8.0655	31.36	0.09	31.45	60.00	-28.55	QP		
9									
	8.0655 8.8035	19.47 31.03	0.09	19.56 31.13	50.00 60.00	-30.44 -28.87	AVG QP		



		-								
Test Mo	de	Idle						Tested Da	te	2023/9/8
Test Fre	equency	-						Phase		Line
80.0	dBuV									
70										
60										
50										
40									11	
30	1 X		5				7	9 ×	x	
	3 X 2		×				×	10	12 X	
20	× 4		6 X				8 X			
10	×									
0										
-10										
-10										
-20.0										
-20.0	150		0.5		(MHz)		5			30.000
-20.0	150	Reading	0.5 Correct Factor	Measure- ment	(MHz) Limit	Margin	5			30.000
-20.0 0.	150	Reading	Correct			Margin	5 Detector	Comment		30.000
-20.0 0.	150 k. Freq.	Reading Level	Correct Factor	ment	Limit			Comment		30.000
-20.0 0. No. Mi	 150 K. Freq. MHz 0.1883 0.1883 	Reading Level dBuV 34.22 17.30	Correct Factor dB	ment dBuV 34.26 17.34	Limit dBuV 64.11 54.11	dB -29.85 -36.77	Detector QP AVG	Comment		30.000
-20.0 0. No. Mł	 Freq. MHz 0.1883 0.1883 0.2490 	Reading Level dBuV 34.22 17.30 25.40	Correct Factor dB 0.04 0.03	ment dBuV 34.26 17.34 25.43	Limit dBuV 64.11 54.11 61.79	dB -29.85 -36.77 -36.36	Detector QP AVG QP	Comment		30.000
-20.0 0. No. Mł 1 2 3 4	 Freq. MHz 0.1883 0.2490 0.2490 	Reading Level dBuV 34.22 17.30 25.40 10.75	Correct Factor dB 0.04 0.03 0.03	ment dBuV 34.26 17.34 25.43 10.78	Limit dBuV 64.11 54.11 61.79 51.79	dB -29.85 -36.77 -36.36 -41.01	Detector QP AVG QP AVG	Comment		30.000
-20.0 0. No. Mł 1 2 3 4 5	 Freq. MHz 0.1883 0.1883 0.2490 0.2490 0.6517 	Reading Level dBuV 34.22 17.30 25.40 10.75 27.22	Correct Factor dB 0.04 0.03 0.03 0.02	ment dBuV 34.26 17.34 25.43 10.78 27.24	Limit dBuV 64.11 54.11 61.79 51.79 56.00	dB -29.85 -36.77 -36.36 -41.01 -28.76	Detector QP AVG QP AVG QP	Comment		30.000
-20.0 0. No. Mi 1 2 3 4 5 6	 Freq. MHz 0.1883 0.1883 0.2490 0.2490 0.6517 0.6517 	Reading Level dBuV 34.22 17.30 25.40 10.75 27.22 13.22	Correct Factor dB 0.04 0.03 0.03 0.03 0.02 0.02	ment dBuV 34.26 17.34 25.43 10.78 27.24 13.24	Limit dBuV 64.11 54.11 61.79 51.79 56.00 46.00	dB -29.85 -36.77 -36.36 -41.01 -28.76 -32.76	Detector QP AVG QP AVG QP QP AVG	Comment		30.000
-20.0 0. No. Mi 1 2 3 4 5 6 7	 Freq. MHz 0.1883 0.1883 0.2490 0.2490 0.6517 0.6517 6.1845 	Reading Level dBuV 34.22 17.30 25.40 10.75 27.22 13.22 26.78	Correct Factor dB 0.04 0.03 0.03 0.02 0.02 0.07	ment dBuV 34.26 17.34 25.43 10.78 27.24 13.24 26.85	Limit dBuV 64.11 54.11 61.79 51.79 56.00 46.00 60.00	dB -29.85 -36.77 -36.36 -41.01 -28.76 -32.76 -33.15	Detector QP AVG QP AVG QP AVG QP	Comment		30.000
-20.0 0. No. Mi 1 2 3 4 5 6 7 8	 Freq. MHz 0.1883 0.1883 0.2490 0.2490 0.6517 0.6517 6.1845 6.1845 	Reading Level dBuV 34.22 17.30 25.40 10.75 27.22 13.22 26.78 15.97	Correct Factor dB 0.04 0.03 0.03 0.02 0.02 0.07 0.07	ment dBuV 34.26 17.34 25.43 10.78 27.24 13.24 26.85 16.04	Limit dBuV 64.11 54.11 61.79 51.79 56.00 46.00 60.00 50.00	dB -29.85 -36.77 -36.36 -41.01 -28.76 -32.76 -33.15 -33.96	Detector QP AVG QP AVG QP AVG QP QP	Comment		30.000
-20.0 0. No. Mi 1 2 3 4 5 6 7 8 9	 Freq. MHz 0.1883 0.1883 0.2490 0.2490 0.6517 0.6517 6.1845 6.1845 9.8813 	Reading Level dBuV 34.22 17.30 25.40 10.75 27.22 13.22 26.78 15.97 32.95	Correct Factor dB 0.04 0.03 0.03 0.02 0.02 0.07 0.07 0.12	ment dBuV 34.26 17.34 25.43 10.78 27.24 13.24 26.85 16.04 33.07	Limit dBuV 64.11 54.11 61.79 51.79 56.00 46.00 60.00 50.00 60.00	dB -29.85 -36.77 -36.36 -41.01 -28.76 -32.76 -33.15 -33.96 -26.93	Detector QP AVG QP AVG QP AVG QP AVG	Comment		30.000
-20.0 0. No. Mi 1 2 3 4 5 6 7 8 9 10	 Freq. MHz 0.1883 0.1883 0.2490 0.2490 0.6517 0.6517 6.1845 6.1845 9.8813 9.8813 	Reading Level dBuV 34.22 17.30 25.40 10.75 27.22 13.22 26.78 15.97 32.95 18.39	Correct Factor dB 0.04 0.03 0.03 0.02 0.02 0.02 0.07 0.07 0.12 0.12	ment dBuV 34.26 17.34 25.43 10.78 27.24 13.24 26.85 16.04 33.07 18.51	Limit dBuV 64.11 54.11 61.79 51.79 56.00 46.00 60.00 50.00 50.00	dB -29.85 -36.77 -36.36 -41.01 -28.76 -32.76 -33.15 -33.96 -33.96 -26.93 -31.49	Detector QP AVG QP AVG QP AVG QP AVG QP AVG	Comment		30.000
-20.0 0. 1 2 3 4 5 6 7 8 9	 Freq. MHz 0.1883 0.1883 0.2490 0.2490 0.6517 0.6517 6.1845 6.1845 9.8813 	Reading Level dBuV 34.22 17.30 25.40 10.75 27.22 13.22 26.78 15.97 32.95	Correct Factor dB 0.04 0.03 0.03 0.02 0.02 0.07 0.07 0.12	ment dBuV 34.26 17.34 25.43 10.78 27.24 13.24 26.85 16.04 33.07	Limit dBuV 64.11 54.11 61.79 51.79 56.00 46.00 60.00 50.00 60.00	dB -29.85 -36.77 -36.36 -41.01 -28.76 -32.76 -33.15 -33.96 -26.93	Detector QP AVG QP AVG QP AVG QP AVG	Comment		30.000



Test Mo	de	Idle						Teste	d Date	2023/9/8
Test Fre	quency	-						Phas	е	Neutral
20.0 70 60	dBuV									
50 40	1.		5				7	9	11 X	
30 20	3 X		х 6 Х				7 8 X	3 X 10 X	12 X	
10	^ 4 ×									
0										
-10					-					
-20.0			0.5				5			20.000
U.	150	Reading	Correct		(MHz)		3			30.000
No. Mł	k. Freq.	Reaultiu	UTITED	Measure-						
		Level	Factor	ment	Limit	Margin				
	MHz	Level dBuV	Factor dB	dBu∨	dBu∨	dB	Detector	Comr	nent	
1	MHz 0.1883	Level dBuV 34.60	Factor dB 0.04	dBu∨ 34.64	dBu∨ 64.11	dB -29.47	QP	Comr	nent	
2	MHz 0.1883 0.1883	Level dBuV 34.60 18.26	Factor dB 0.04 0.04	dBu∨ 34.64 18.30	dBu∨ 64.11 64.11	dB -29.47 -45.81	QP AVG	Comr	nent	
2	MHz 0.1883 0.1883 0.2513	Level dBuV 34.60 18.26 27.37	Factor dB 0.04 0.04 0.03	dBuV 34.64 18.30 27.40	dBu∨ 64.11 64.11 61.71	dB -29.47 -45.81 -34.31	QP AVG QP	Comr	nent	
2 3 4	MHz 0.1883 0.1883 0.2513 0.2513	Level dBuV 34.60 18.26 27.37 13.14	Factor dB 0.04 0.03 0.03	dBuV 34.64 18.30 27.40 13.17	dBuV 64.11 64.11 61.71 51.71	dB -29.47 -45.81 -34.31 -38.54	QP AVG QP AVG	Comr	nent	
2 3 4 5	MHz 0.1883 0.1883 0.2513 0.2513 0.6045	Level dBuV 34.60 18.26 27.37 13.14 32.57	Factor dB 0.04 0.03 0.03 0.02	dBu∨ 34.64 18.30 27.40 13.17 32.59	dBu∨ 64.11 64.11 61.71 51.71 56.00	dB -29.47 -45.81 -34.31 -38.54 -23.41	QP AVG QP AVG QP	Comr	nent	
2 3 4 5 6	MHz 0.1883 0.1883 0.2513 0.2513 0.6045 0.6045	Level dBuV 34.60 18.26 27.37 13.14 32.57 20.55	Factor dB 0.04 0.03 0.03 0.03 0.02 0.02	dBu∨ 34.64 18.30 27.40 13.17 32.59 20.57	dBu∨ 64.11 64.11 61.71 51.71 56.00 46.00	dB -29.47 -45.81 -34.31 -38.54 -23.41 -25.43	QP AVG QP AVG QP AVG	Comr	nent	
2 3 4 5 6 7	MHz 0.1883 0.2513 0.2513 0.6045 0.6045 6.1845	Level dBuV 34.60 18.26 27.37 13.14 32.57 20.55 31.52	Factor dB 0.04 0.03 0.03 0.02 0.02 0.07	dBu∨ 34.64 18.30 27.40 13.17 32.59 20.57 31.59	dBu√ 64.11 64.11 51.71 56.00 46.00 60.00	dB -29.47 -45.81 -34.31 -38.54 -23.41 -25.43 -28.41	QP AVG QP AVG QP AVG QP	Comr	nent	
2 3 4 5 6 7 8	MHz 0.1883 0.2513 0.2513 0.6045 0.6045 6.1845 6.1845	Level dBuV 34.60 18.26 27.37 13.14 32.57 20.55 31.52 20.98	Factor dB 0.04 0.03 0.03 0.02 0.02 0.02 0.07 0.07	dBu∨ 34.64 18.30 27.40 13.17 32.59 20.57 31.59 21.05	dBu√ 64.11 61.71 51.71 56.00 46.00 60.00 50.00	dB -29.47 -45.81 -34.31 -38.54 -23.41 -25.43 -28.41 -28.95	QP AVG QP AVG QP AVG QP AVG	Comr	nent	
2 3 4 5 6 7 8 9	MHz 0.1883 0.2513 0.2513 0.6045 0.6045 6.1845 6.1845 8.4683	Level dBuV 34.60 18.26 27.37 13.14 32.57 20.55 31.52 20.98 31.73	Factor dB 0.04 0.03 0.03 0.02 0.02 0.07 0.07 0.10	dBu∨ 34.64 18.30 27.40 13.17 32.59 20.57 31.59 21.05 31.83	dBu√ 64.11 64.11 51.71 56.00 46.00 60.00 50.00	dB -29.47 -45.81 -34.31 -38.54 -23.41 -23.41 -28.41 -28.95 -28.17	QP AVG QP AVG QP AVG QP AVG QP	Comr	nent	
2 3 4 5 6 7 8 9 10	MHz 0.1883 0.2513 0.2513 0.6045 0.6045 6.1845 6.1845 8.4683 8.4683	Level dBuV 34.60 18.26 27.37 13.14 32.57 20.55 31.52 20.98 31.73 19.48	Factor dB 0.04 0.03 0.03 0.02 0.02 0.07 0.07 0.07 0.10 0.10	dBu∨ 34.64 18.30 27.40 13.17 32.59 20.57 31.59 21.05 31.83 19.58	dBu√ 64.11 64.11 51.71 56.00 46.00 60.00 50.00 50.00	dB -29.47 -45.81 -34.31 -38.54 -23.41 -25.43 -28.41 -28.95 -28.17 -30.42	QP AVG QP AVG AVG QP AVG QP AVG	Comr	nent	
2 3 4 5 6 7 8 9 10	MHz 0.1883 0.2513 0.2513 0.6045 0.6045 6.1845 6.1845 8.4683	Level dBuV 34.60 18.26 27.37 13.14 32.57 20.55 31.52 20.98 31.73	Factor dB 0.04 0.03 0.03 0.02 0.02 0.07 0.07 0.10	dBu∨ 34.64 18.30 27.40 13.17 32.59 20.57 31.59 21.05 31.83	dBu√ 64.11 64.11 51.71 56.00 46.00 60.00 50.00	dB -29.47 -45.81 -34.31 -38.54 -23.41 -23.41 -28.41 -28.95 -28.17	QP AVG QP AVG QP AVG QP AVG QP	Comr		



APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ



	Test Mo	ode	BLE	E 5.0 (1 Mbps)			Test Date	9	202	3/9/7	
Te	st Frequ	uency		2440			F	Polarizatic	n		tical	
	Temp)		26°	С			Hum.		57	7%	
80.0 df	3uV/m											_
70												
60												
50												
												1
40						5			e X			
		2			4 ×				x			
30		2 X		3 X	×							
30 1 X												
20												
10												
0.0												
30.000	127.00		321.0		418.00	515.00				6.00	1000.00	MHz
No.	Mk.	Freq.	Read Lev		Correct Factor	Meas		Limit	Over			
		MHz	dBu		dB	me dBu\		dBuV/m	dB	Detector	Comme	ont
1		55.2200	37.7		-11.47	26.2		40.00	-13.74	peak	0011110	
2		181.2230			-13.33	32.1		43.50	-11.39	peak		
3		350.3263		13	-10.11	30.0)2	46.00	-15.98	peak		
4		440.7303			-7.35	33.2	28	46.00	-12.72	peak		
5	*	533.1067	7 45.2	25	-5.61	39.6	64	46.00	-6.36	peak		
6		714.8847	7 40.4	16	-2.17	38.2	29	46.00	-7.71	peak		



	Test Mo	nde		BIE 5 () (1 Mbps)		Test Date		202	3/9/7
	st Freq				0MHz		Polarizatio			zontal
	Temp				6°C		Hum.			7%
80.0 d	Bu¥/m									
70										
60										
50										
40						5 X		6 X		
				4 ×						
30	1 ²	3 X								
20	1 X X									
10										
0.0										
30.000	127.0	0 224.0)0	321.00	418.00	515.00 6	512.00 70	9.00 806	5.00	1000.00 MH;
No.	Mk.	Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		81.507		39.99	-16.62	23.37	40.00	-16.63	peak	
2		120.01		40.09	-14.25	25.84	43.50	-17.66	peak	
3		180.38		41.29	-13.22	28.07	43.50	-15.43	peak	
4 5	*	351.45 530.90		43.43 44.52	-10.08 -5.66	33.35 38.86	46.00 46.00	-12.65 -7.14	peak peak	
6		714.30		44.52	-3.66	38.35	46.00	-7.14	peak	
<u> </u>		117.00		10.00	2.10	00.00	-0.00	1.00	pour	



APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ



-	Test Moc	e	BI	E 5.0	(1 M	lbns)			Te	est Da	ate		20)23/9/7	
	st Freque				2MH					larizat				ertical	
	Temp				3°C					Hum.				57%	
130.0 dE	3uV/m														_
120															
110															
100							1								
90							-								-
80							4								-
70							×								
60															-
50 (-hunderhan about	wanter and the second	MMWwwwww	www.	www.	min	INV	hundren	www	Manana	walana	weber	na and the second states of the second	Matter the busy budy and	1 1
40						2 X									×
30															-
20															
10.0															
	0 2322.00				2382		2402		2422		2442		62.00	2502.00	MH
No.	Mk.	Freq.	Read Lev			rrect ctor		asure- nent		Limit		Over			
		MHz	dB	uV	(βB	dE	3uV/m	d	lBuV/r	m	dB	Detecto	or Comme	nt
1		2389.127	55.	92	-5	.58	5	0.34		74.00)	-23.66	peak		
2		2389.127	44.	72	-5	.58	3	9.14		54.00)	-14.86	AVG		
3		2400.000	78.	49	-5	.56	7	2.93		74.00)	-1.07	peak	NoLim	it
4	Х	2402.000	107	.16	-5	.55	1	01.61		74.00)	27.61	peak	NoLim	it
5	*	2402.000	106	.63	-5	.55	1	01.08		54.00)	47.08	AVG	NoLim	it
6		2501.000	55.	79	-5	.38	5	0.41		74.00)	-23.59	peak		
7		2501.000	44.	58	-5	.38	3	9.20		54.00)	-14.80	AVG		

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.

	Test Mod) (1 Mbps)		Test Date			3/9/7
	Test Freque	ency		OMHz		Polarization	1		tical
130.0			2	6°C		Hum.		57	7%
130.0	arna/w							1	
120 -									
10 -									
100 -					*				
90 –									
80 -									
70 🗌									
60 -									
	1 Nor-Annoradulation	walnesseles with the open	appened and a second state	Mathan	and hunderman	hydrawith and a start	with many paper	mborthadeland	Durgeyersonaladan
50	1 Mar fransiska da 1944 v 2 X		abdon-optication, boko	MM Anana and Mar	water hardwares	tudowit strange K	mNdraadanadaqdaa	nfrikaget.Metrinana	Dunyahana
50 40		ura Marada da Malaya	hlansformedide	hang ang ang ang ang ang ang ang ang ang	and histories		milde no sinon despinan	nfriðhagðiðstjónnarin	Da-gogier annes videolog
50		walanda bililikayi	hlan ya ana ana ana ana ana ana ana ana an	hong share a construction of the	and hiderary		ndde na dige Aggiran	nfrædenskaperskaperskaperskaperskaperskaperskaperskaperskaperskaperskaperskaperskaperskaperskaperskaperskapersk I	Da-fiyin,anafiyin,
50 <mark>- 140</mark> 80 - 100 1000 - 100	2 X					X			
50 ,**4 40 ,**4 30 ,**4 10.0 ,**4 2380	2 X 0.000 2400.00	2420.00	2440.00	2460.00	2480.00 25	500.00 252	20.00 254	nfr:Hough=M4MmArc 	Du-/w/v/www.dw/w 2580.00 MH
50 <mark>- 140</mark> 80 - 100 1000 - 100	2 X					X			
50 +*** 10	2 X 0.000 2400.00	2420.00	2440.00 Reading	2460.00 Correct	2480.00 29 Measure-	500.00 252	20.00 254 Over dB		
i0 1 ¹⁴⁴ i0 2 i0 0 i0 0 i0 0 i0 0 i0 0 i0 0 i0 0	2 X 0.000 2400.00	2420.00 Freq.	2440.00 Reading Level	2460.00 Correct Factor	2480.00 29 Measure- ment	500.00 252 Limit	20.00 254 Over	0.00	2580.00 Mł
i0 1 ¹⁴⁴ i0 2 i0 0 i0 0 i0 0 i0 0 i0 0 i0 0 i0 0	2 X 0.000 2400.00	2420.00 Freq. MHz	2440.00 Reading Level dBuV	2460.00 Correct Factor dB	2480.00 29 Measure- ment dBuV/m	x 500.00 252 Limit dBuV/m	20.00 254 Over dB	0.00 Detector	2580.00 MI
i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i	2 X 0.000 2400.00	2420.00 Freq. MHz 2385.867	2440.00 Reading Level dBuV 54.35	2460.00 Correct Factor dB -5.58	2480.00 29 Measure- ment dBuV/m 48.77	x 500.00 252 Limit dBuV/m 74.00	20.00 254 Over dB -25.23	0.00 Detector peak	2580.00 MI
i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i0 i	2 X 0.000 2400.00 Mk.	2420.00 Freq. MHz 2385.867 2385.867	2440.00 Reading Level dBuV 54.35 43.93	2460.00 Correct Factor dB -5.58 -5.58	2480.00 29 Measure- ment dBuV/m 48.77 38.35	x 500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -25.23 -15.65	Detector peak AVG	2580.00 MH
50 40 30 20 10.0 2380 No. 1 2 3	2 X 0.000 2400.00 Mk. X	2420.00 Freq. MHz 2385.867 2385.867 2480.000	2440.00 Reading Level dBuV 54.35 43.93 105.53	2460.00 Correct Factor dB -5.58 -5.58 -5.41	2480.00 29 Measure- ment dBuV/m 48.77 38.35 100.12	x 500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -25.23 -15.65 26.12	Detector peak AVG peak	2580.00 MH

	Test Mo			.0 (1 Mbps)		Test Date			3/9/7		
le	Temp 2			102MHz		Polarization			Vertical 57%		
130.0 dE			26°C		Hum.		5	/%			
130.0 ut	ou¥7III				1						
120											
110											
100											
90											
80											
70											
60											
50											
		1 2									
40		X									
30											
20											
10.0											
1000.00	0 3550.0	00 6100.0	0 8650.00	11200.00	13750.00 1	6300.00 18	850.00 214	100.00	26500.00 MH:		
No.	Mk.	Freq.	Reading Level	g Correct Factor	Measure- ment	Limit	Over				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1		4804.00	0 43.13	0.50	43.63	74.00	-30.37	peak			
2	*	4804.00	0 38.32	0.50	38.82	54.00	-15.18	AVG			

Те	Test Mode Test Frequency) (1 Mbps) 2MHz		Test Date Polarizatior	1		3/9/7 zontal
	Temp			6°C		Hum.	-		7%
130.0 d	BuV/m								
120									
110									
100									
90									
80									
70 🕅									
60									
50		1 J							
40		1 2 X							
30									
20									
10.0									
1000.0 No.	00 3550.0 Mk.			11200.00	13750.00 1 Measure-	6300.00 18 Limit		100.00	26500.00 MH
INO.	IVIK.	Freq.	Reading Level	Correct Factor	ment		Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	45.77	0.50	46.27	74.00	-27.73	peak	
2	*	4804.000	38.19	0.50	38.69	54.00	-15.31	AVG	

	Test Mo) (1 Mbps) 0MHz		Test Date Polarization			3/9/7 tical
16	Test Frequency Temp			6°C	Hum.				7%
130.0 dl	luV/m	,	Z	00		Tium.			70
120									
110									
100									
90									
80									
70									
60									
50		1 2							
40		×							
30									
20									
10.0	0 3550.0)0 6100.00	8650.00	11200.00	13750.00 1	6300.00 188	50.00 214	00.00	26500.00 MHz
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	00.00	20300.00 MH2
		-	Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000		0.73	48.25	74.00	-25.75	peak	
2	*	4880.000	42.71	0.73	43.44	54.00	-10.56	AVG	

	Test Mode Test Frequency			0 (1 Mbps) 10MHz		Test Date Polarization	1		3/9/7 zontal
	Temp			26°C		Hum.		57%	
130.0 dB	ıV/m								
120									
110									
100									
90									
80									
70									
60									
50		1 V							
40		1 2 X							
30									
20									
10.0									
1000.000				11200.00				100.00	26500.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000) 45.29	0.73	46.02	74.00	-27.98	peak	
2	*	4880.000) 39.56	0.73	40.29	54.00	-13.71	AVG	

	Test Mo		BI		(1 Mbps)			Test D				3/9/7		
Tes	Test Frequency Temp			2480MHz 26°C			Polarization Hum.					Vertical 57%		
130.0 dB	iennµ uV/m	5		20	50						5	57%		
	arrm													
120														
10														
90														
30														
0														
50														
50		1												
		1 2 X												
		~												
30														
20														
10.0														
	0 3550.	00 6100.0	0 865	0.00	11200.00	13750	.00 1	6300.00	188	350.00 2 [°]	1400.00	26500.00 MH		
No.	Mk.	Freq.		ding	Correct	Mea	asure-	Lim	it	Over				
			Le	vel	Factor		ent							
		MHz		BuV	dB		uV/m	dBuV		dB	Detector	Comment		
1		4960.00		.06	0.99		6.05	74.0		-27.95				
2	*	4960.00	0 39	.84	0.99	40	0.83	54.0	00	-13.17	AVG			

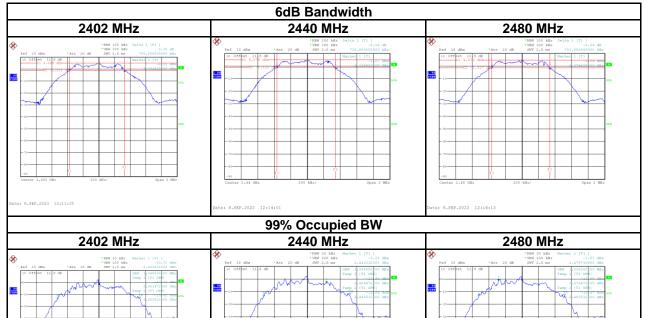
Test Mode Test Frequency) (1 Mbps) 60MHz		Test Date Polarizatior	1	2023/9/7 Horizontal			
	Temp		2	6°C		Hum.			57%	
130.0 c	dBuV/m									
120										
10										
0										
50		1 X								
40		2 X								
30 -										
20										
0.0		0.0100.00	0050.00	11000.00	10750.00 1					
No.	000 3550.0 Mk.	0 6100.00 Freq.	8650.00 Reading	11200.00 Correct	13750.00 1 Measure-	6300.00 188 Limit	350.00 214 Over	00.00	26500.00 MH	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4960.000	43.63	0.99	44.62	74.00	-29.38	peak		
2	*	4960.000	34.57	0.99	35.56	54.00	-18.44	AVG		



APPENDIX D BANDWIDTH



Test Mode:	1Mbps			
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.71	1.05	500	Pass
2440	0.72	1.04	500	Pass
2480	0.70	1.04	500	Pass







APPENDIX E OUTPUT POWER



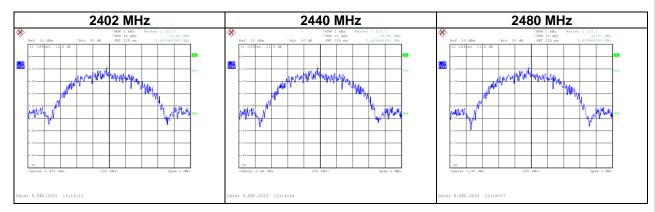
Test Mode :	1Mbps		т	ested Date 2	023/9/8
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	4.88	0.0031	30.00	1.0000	Pass
2440	4.81	0.0030	30.00	1.0000	Pass
2480	4.67	0.0029	30.00	1.0000	Pass



APPENDIX F POWER SPECTRAL DENSITY TEST



Test Mode : 1Mbps							
Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result				
2402	-10.66	8	Pass				
2440	-10.60	8	Pass				
2480	-10.73	8	Pass				





APPENDIX G ANTENNA CONDUCTED SPURIOUS EMISSION



