

FCC Radio Test Report

FCC ID: 2AJAC-TSPLATEAMP

Report No. Equipment Model Name Brand Name Applicant Address Manufacturer Address	 BTL-FCCP-1-2308T110 Audio Amplifier TS-PLATE-AMP-1200, TS-PLATE-AMP-700 TRIAD Snap One, LLC 1800 Continental Blvd. Suite 300, Charlotte, NC 28273, USA FORMOSA AUDIOMATE LTD. 12F., No. 653, Bannan Rd., Zhonghe Dist., 23557 New Taipei City, Taiwan, R.O.C.
Radio Function	: Bluetooth
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	: 2023/11/7 : 2023/12/28 ~ 2024/2/15 : 2024/9/2

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

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

PRELL ONE Brett Shen, Engineer



Approved by

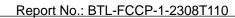
BTL Inc.

Prepared by

Jerry Chuarlg, Supervisor

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Project No.: 2308T110





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** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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-1-2308T110	R00	Original Report.	2024/9/2	Valid

1 SUMMARY OF TEST RESULTS

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 APPENDIX D	Pass	
15.247 (a)(1)(iii)	Number of Hopping Frequency	APPENDIX E	Pass	
15.247 (a)(1)(iii)	Average Time of Occupancy	APPENDIX F	Pass	
15.247 (a)(1)	Hopping Channel Separation	APPENDIX G	Pass	
15.247 (a)(1)	Bandwidth	APPENDIX H	Pass	
15.247 (b)(1)	Output Power	APPENDIX I	Pass	
15.247(d)	Antenna conducted Spurious Emission	APPENDIX J	Pass	
15.203	Antenna Requirement		Pass	

Test procedures according to the technical standards.

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) 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 □ CB08 □ 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 $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k = 2, providing a level of confidence of approximately 95 %.

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	0.5338
Output power	0.3659
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5348
Dwell time	0.6606
Channel separation	0.6606
Channel numbers	0.6606

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

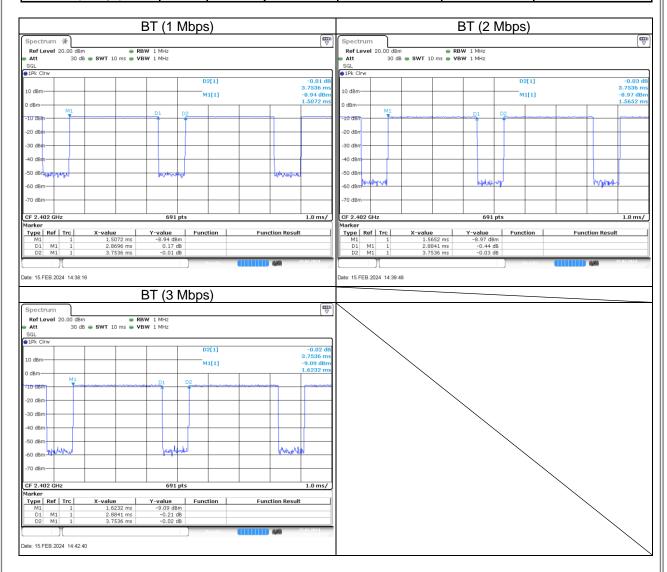
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	16 °C, 41 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Number of Hopping Frequency	21.5 °C, 48 %	AC 120V	Ken Lan
Average Time of Occupancy	21.5 °C, 48 %	AC 120V	Ken Lan
Hopping Channel Separation	21.5 °C, 48 %	AC 120V	Ken Lan
Bandwidth	21.5 °C, 48 %	AC 120V	Ken Lan
Output Power	21.5 °C, 48 %	AC 120V	Ken Lan
Antenna conducted Spurious Emission	21.5 °C, 48 %	AC 120V	Ken Lan



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)
Mode	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle	Duty Factor
Mode	(ms)	(ON)	(ms)	(ms)	(%)	(dB)
BT (1 Mbps)	2.870	1	2.870	3.754	76.45%	1.17
BT (2 Mbps)	2.884	1	2.884	3.754	76.84%	1.14
BT (3 Mbps)	2.884	1	2.884	3.754	76.84%	1.14



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment		Audio Amplifier					
Model Name	· · · ·	TS-PLATE-AMP-1200, TS-PLATE-AMP-700					
Brand Name	TRIAD	-					
	Model Name	Channel Count	Power Output per channel				
Model Difference	TS-PLATE-AMP-1200	1	1200W				
	TS-PLATE-AMP-700	1	700W				
Power Source	AC Mains.						
Power Rating	I/P: 100-240V~						
Products Covered	N/A						
Operation Band	2400 MHz ~ 2483.5 MHz						
Operation Frequency	2402 MHz ~ 2480 MHz	2402 MHz ~ 2480 MHz					
Modulation Type	GFSK, π/4-DQPSK, 8DPS	GFSK, π/4-DQPSK, 8DPSK					
Modulation Technology	FHSS						
Transfer Rate	1 Mbps, 2 Mbps, 3Mbps						
	1 Mbps: -3.64 dBm (0.0004						
Output Power Max.	2 Mbps: -2.81 dBm (0.0005						
	3 Mbps: -2.97 dBm (0.0005	5 W)					
Test Software Version	ISRT Ver2.1.32.6337						
Test Model	TS-PLATE-AMP-1200						
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)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

(3) Table for Filed Antenna:

Ant.	Manufacture	Model Name	Туре	Connector	Frequency Range (MHz)	Gain (dBi)
1	N/A	N/A	PCB	N/A	2400-2480	3.5

(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	00	-
Transmitter Radiated Emissions	1/3 Mbps	00/78	Bandedge
(above 1GHz)	1/3 Mbps	00/39/78	Harmonic
Transmitter Radiated Emissions (above 18GHz)	1 Mbps	00	-
Number of Hopping Frequency	1/3 Mbps	00~78	-
Average Time of Occupancy	1/3 Mbps	00/39/78	-
Hopping Channel Separation	1/3 Mbps	00/39/78	-
Bandwidth	1/3 Mbps	00/39/78	-
Peak Output Power	1/2/3 Mbps	00/39/78	-
Antenna conducted Spurious Emission	1/3 Mbps	00/39/78	-

NOTE:

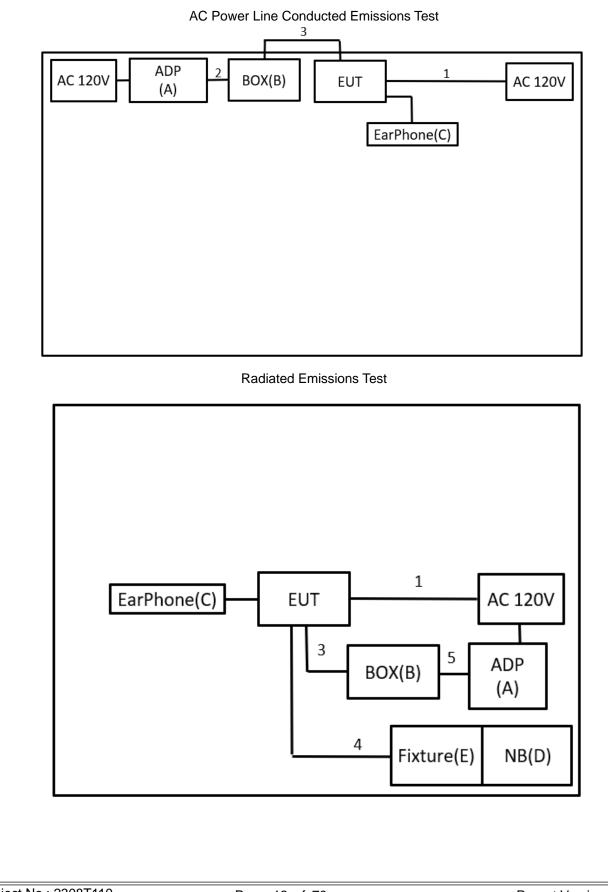
(1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.

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



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
А	Equipment	Mfr/Brand	Model/Type No.	N/A	Furnished by test lab.
В	ADP	LG	LP65WFC20P-NJ	N/A	Furnished by test lab.
С	BOX	N/A	TS-BOX	N/A	Furnished by test lab.
D	NB	HP	TPN-I119	N/A	Furnished by test lab.
Е	Fixture	N/A	N/A	N/A	Furnished by test lab.
Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Power Cord	Furnished by test lab.
2	N/A	N/A	1.2m	Type - C to Type - C	Furnished by test lab.
3	N/A	N/A	0.9m	Audio Cable	Furnished by test lab.
4	N/A	N/A	1m	LAN Cable	Furnished by test lab.
5	N/A	N/A	1Mm	Type - C to Type - C	Furnished by test lab.



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 (dBuV)		Correct Factor (dB)		Measurement Value (dBuV)
38.22	+	3.45	Ш	41.67

Measurement Value		Limit Value		Margin Level
(dBuV)		(dBuV)		(dB)
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:

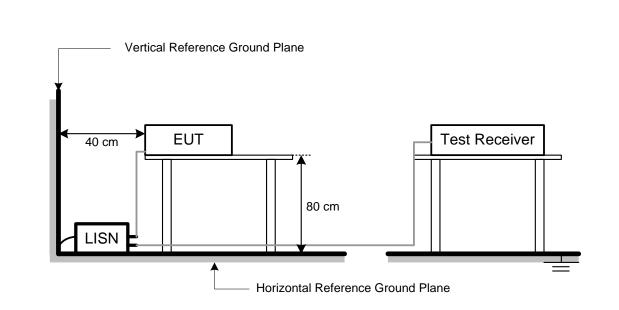
- In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

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	
(dBµV)		(dB/m)		(dBµV/m)	
35.45	+	-11.37	=	24.08	

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
(ubμv/m)		(ubµv/m)		(UD)
24.08	I	40	=	-15.92

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

Mode	VBW(Hz)
BT (1M)	360
BT (2M)	360
BT (3M)	360



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

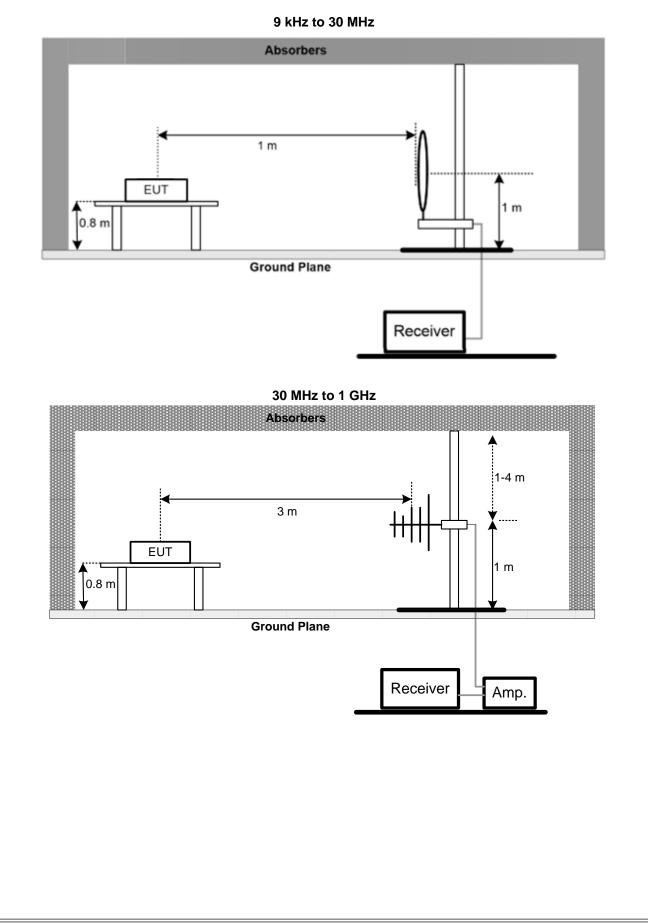
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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

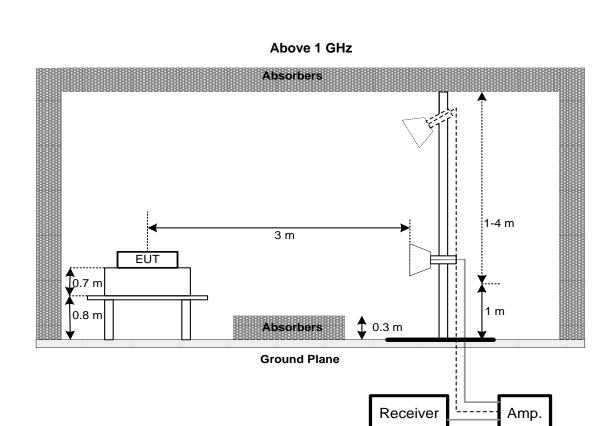
No deviation.



4.4 TEST SETUP







4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



4.6 TEST RESULT – 9kHz TO 30 MHz

Please refer to the APPENDIX B.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX D.

NOTE:

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



5 NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES

Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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=100KHz, Sweep time = Auto.

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 E.



6 AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. Measure the maximum time duration of one single pulse. A Period Time = (channel number) $^{\circ}0.4$

For Normal Mode (79 Channel):

DH1 Time Solt: Reading * (1600/2)*31.6/(channel number) DH3 Time Solt: Reading * (1600/2)*31.6/(channel number) DH5 Time Solt: Reading * (1600/2)*31.6/(channel number)

For AFH Mode (20 Channel):

DH1 Time Solt: Reading * (1600/2)*8/(channel number) DH3 Time Solt: Reading * (1600/4)*8/(channel number) DH5 Time Solt: Reading * (1600/6)*8/(channel number)

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 F.



7 HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 KHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

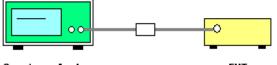
7.2 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = Auto Detector function = Peak Trace = Max Hold

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



Spectrum Analayzer

EUT

7.5 TEST RESULTS

Please refer to the APPENDIX G.



8 BANDWIDTH TEST

8.1 APPLIED PROCEDURES

Section	Test Item	Frequency Range (MHz)	
15.247(a)(2)	Bandwidth	2400-2483.5	

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency	> Measurement Bandwidth or Channel Separation		
RBW	30 KHz (20dB Bandwidth) / 30 KHz (Channel Separation)		
VBW	100 KHz (20dB Bandwidth) / 100 KHz (Channel Separation)		
Detector	Peak		
Trace	Max Hold		
Sweep Time	Auto		

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= 30KHz, VBW=100KHz, Sweep Time = Auto.

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 H.



9 OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Test Item Limit		Result
15.247(b)(1)	Peak Output Power	0.125Watt or 21dBm	2400-2483.5	PASS

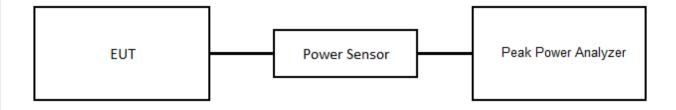
9.2 TEST PROCEDURE

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

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 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.

9.6 TEST RESULTS

Please refer to the APPENDIX I.



10 ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 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.

10.2 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=100KHz, Sweep time = Auto.
- c. Offset=antenna gain+cable loss

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 TEST SETUP



10.5 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.

10.6 TEST RESULTS

Please refer to the APPENDIX J.



11 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	2023/9/13	2024/9/12
2	Test Cable	EMCI	EMCCFD300-BM -BMR-5000	220331	2023/3/30	2024/3/29
3	EMI Test Receiver	R&S	ESR 7	101433	2023/11/10	2024/11/9
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	2023/9/6	2024/9/5		
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6		
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2023/9/21	2024/9/20		
4	Preamplifier	EMCI	EMC001340	980579	2023/9/6	2024/9/5		
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	2023/9/12	2024/9/11		
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		

Number of Hopping Frequency						
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

		Ave	rage Time of Occ	upancy		
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



Spectrum

Analyzer

1

		Нор	ping Channel Se	paration				
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		
					Calibrated Date 2023/3/9 Calibrated Date 2023/3/9 Calibrated Date 7 2023/3/15			
			Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.		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 Until		
1	Peak Power Analyzer	Keysight	8990B	MY51000517	2023/3/15	2024/3/14		
2	Power Sensor	Keysight	N1923A	MY58310005	2023/3/15	2024/3/14		
		Antenna	conducted Spuric	ous Emission				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.		Calibrated Until		

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.

R&S



12 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2308T110-FCCP-1 (APPENDIX-TEST PHOTOS).

13 EUT PHOTOS

Please refer to document Appendix No.: EP-2308T110-1 (APPENDIX-EUT PHOTOS).



APPENDIX A AC POWER LINE CONDUCTED EMISSIONS



est Mo	de	Normal						Tested Date	2023/12/28
est Fre	quency	-						Phase	Line
100.0 dBuV									1
90									
80									
70									
60									
50									
40	1 X	3	6		_				
30	2 X	×	×		8 X		\$0 X	12 X	
20							^		
10									
0.0	150		0.5		(MHz)		5		30.000
0.	150	Reading	Correct	Measure-			5		50.000
No. M⊧		Level	Factor	ment	Limit	Margin			
1	MHz 0.1860	dBu∨ 26.45	dB 9.60	dBu∨ 36.05	dBu∨ 64.21	dB -28.16	QP	Comment	
2	0.1860		9.60	26.49	54.21	-27.72	AVG		
3	0.4627		9.58	29.26	56.64	-27.38	QP		
4	0.4627	19.60	9.58	29.18	46.64	-17.46	AVG		
5	0.8340		9.58	28.95	56.00	-27.05	QP		
6 *	0.8340		9.58	28.93	46.00	-17.07	AVG		
7	1.5765 1.5765		9.62	27.42	56.00 46.00	-28.58 -18.68	QP AVG		
0 9	4.5420		9.62	27.52	40.00	-32.53	QP		
10	4.5420		9.64	23.24	46.00	-22.76	AVG		
11	10.5697	18.86	9.73	28.59	60.00	-31.41	QP		
12	10.5697	18.30	9.73	28.03	50.00	-21.97	AVG		



est Mo	de	Normal						Tested Date	2023/12/28
est Fre	quency	-						Phase	Neutral
100.0	D dBuV								
90									
80									
70									
60									
50									
40	1 X	8		5		8		\$0	113 X
30	2	×		Глар Х		×		×	
20	×								
10									
0.0									
0.	150).5		(MHz)		5		30.000
No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1	0.1860	25.92	9.59	35.51	64.21	-28.70	QP		
2	0.1860	10.88	9.59	20.47	54.21	-33.74	AVG		
3	0.4627	20.10	9.57	29.67	56.64	-26.97	QP		
4	0.4627	20.05	9.57	29.62	46.64	-17.02	AVG		
5	1.2052	19.97	9.58	29.55	56.00	-26.45	QP		
6	1.2052	18.65	9.58	28.23	46.00	-17.77	AVG		
7	3.0727	19.59	9.63	29.22	56.00	-26.78	QP		
8 *	3.0727	19.45	9.63	29.08	46.00	-16.92	AVG		
9	9.2153	21.05	9.73	30.78	60.00	-29.22	QP		
10	9.2153	20.96	9.73	30.69	50.00	-19.31	AVG		
11	21.5048	23.75	9.83	33.58	60.00	-26.42	QP		



st Mo	de	Idle						Tested Date	2023/12/28
st Fre	equency	-						Phase	Line
100.	0 dBuV								
90									
80									
70									
60									
50	<u> </u>								
40	1								
30	×	a ×		B X		8		90 ×	112 X
	2 X	Ŷ		×		×		Î.	
20									
10									
0.0 0.	.150	0).5		(MHz)		5		30.000
No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1	0.1860	27.37	9.60	36.97	64.21	-27.24	QP		
2	0.1860	16.03	9.60	25.63	54.21	-28.58	AVG		
3	0.4627	20.37	9.58	29.95	56.64	-26.69	QP		
4 *	0.4627	20.28	9.58	29.86	46.64	-16.78	AVG		
5	1.2052	19.45	9.59	29.04	56.00	-26.96	QP		
6	1.2052	19.22	9.59	28.81	46.00	-17.19	AVG		
7	3.0705	19.08	9.64	28.72	56.00	-27.28	QP		
8	3.0705	19.01	9.64	28.65	46.00	-17.35	AVG		
9	9.2152	20.44	9.72	30.16	60.00	-29.84	QP		
10	9.2152	20.38	9.72	30.10	50.00	-19.90	AVG		
11	21.5025	23.59	9.71	33.30	60.00	-26.70	QP		
11	21.0020								

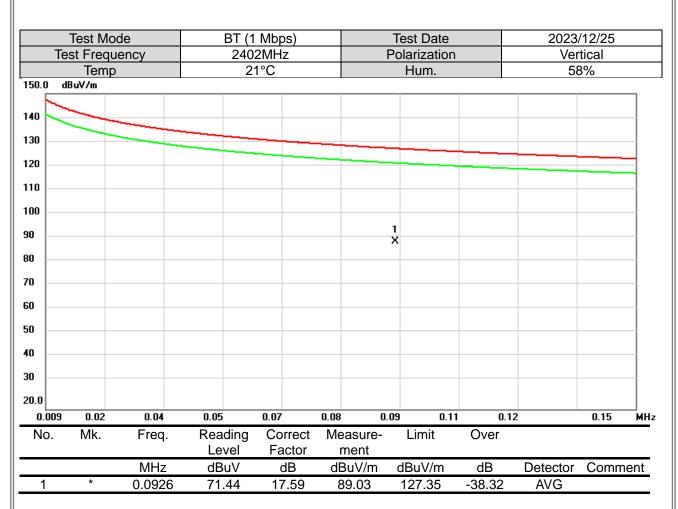


est Mo		Idle						Tested Date	2023/12/28		
est Fre	quency	-						Phase	Neutral		
100.0 dBuV		dBu¥									
90											
80											
70											
60											
50											
40	1 X	8						3 0	12 *		
30	2 X	×		B X		8 ×		×	*		
20											
10											
0.0											
0.	150).5		(MHz)		5		30.000		
No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin					
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment			
1	0.1863	26.76	9.59	36.35	64.20	-27.85	QP				
2	0.1863	18.01	9.59	27.60	54.20	-26.60	AVG				
3	0.4627	20.71	9.57	30.28	56.64	-26.36	QP				
4 *	0.4627	20.65	9.57	30.22	46.64	-16.42	AVG				
5	1.3897	18.94	9.59	28.53	56.00	-27.47	QP				
6	1.3897	18.83	9.59	28.42	46.00	-17.58	AVG				
7	3.0727	19.62	9.63	29.25	56.00	-26.75	QP				
8	3.0727	19.51	9.63	29.14	46.00	-16.86	AVG				
9	9.2152	21.01	9.73	30.74	60.00	-29.26	QP				
10	9.2152	20.96	9.73	30.69	50.00	-19.31	AVG				
11	21.5047	23.38	9.83	33.21	60.00	-26.79	QP				
12	21.5047	22.26	9.83	32.09	50.00	-17.91	AVG				



APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ





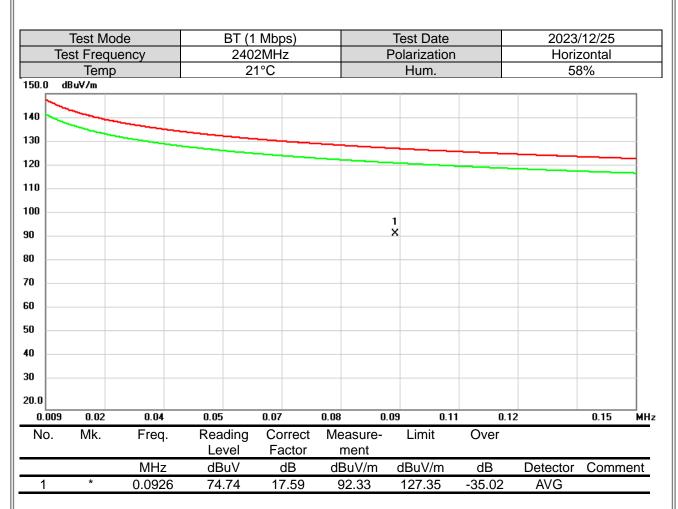
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



	Test Mo st Frequ			Mbps) 2MHz		Test Date Polarizatior	1		/12/25 tical	
	Temp			1°C		Hum.			3%	
20.0 d	BuV/m			· •						
110 100 90										
50	2 X			_						
50				3 X		4 ×	5 ×	6 ×		
20										
) 10.0										
0.150	3.14	6.12	9.10	12.09		8.06 21.		03	30.00	MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	ent
1	*	0.7500	74.89	3.02	77.91	89.18	-11.27	QP		
2		1.4982	69.11	-0.48	68.63	83.16	-14.53	QP		
3		11.4900	51.57	-3.34	48.23	88.62	-40.39	QP		
4		18.3446	43.44	-3.96	39.48	88.62	-49.14	QP		
5		21.5037	47.47	-3.41	44.06	88.62	-44.56	QP		
6		26.7294	47.53	-0.91	46.62	88.62	-42.00	QP		





(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



	Test Mo st Frequ			Mbps) 2MHz		Test Date Polarizatior	1		/12/25 zontal	
10	Temp			1°C		Hum.	•		3%	
20.0 d	BuV/m		-			. I Girlin			570	
10										
	2 X 3 X									
io				4 ×				6 X		
						5 X				
0										
10.0 0.150	3.14	6.12	9.10	12.09	15.08 14	8.06 21.	04 24.0		30.00	
No.	3.14 Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	J3	30.00	мп
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	nent
1	*	0.7500	76.30	3.02	79.32	89.18	-9.86	QP		
2		1.4992	72.10	-0.48	71.62	83.16	-11.54	QP		
3		2.2115	66.04	-2.21	63.83	88.62	-24.79	QP		
4		11.4880	54.76	-3.34	51.42	88.62	-37.20	QP		
5		18.8948	39.52	-4.02	35.50	88.62	-53.12	QP		
6		26.9215	53.28	-0.82	52.46	88.62	-36.16	QP		



APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ



	Test Mo			Mbps)		Test Date			/2/19
Tes	st Frequ			2MHz		Polarization	١		tical
	Temp	1	2	2°C		Hum.		57	7%
80.0 dB	luV/m								
70									
50									
50									
40 <u> </u>					4		5.c XX		
1 X	x	×			×		~~		
20									
0									
).0									
30.000	127.00	224.00	321.00	418.00	515.00 6	12.00 70	9.00 800	6.00	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		48.0097	43.39	-11.18	32.21	40.00	-7.79	peak	
2		96.0247	51.63	-17.06	34.57	43.50	-8.93	peak	
3	*	172.0080	48.86	-12.42	36.44	43.50	-7.06	peak	
4		533.1713	41.68	-5.61	36.07	46.00	-9.93	QP	
5		730.3400	39.29	-1.81	37.48	46.00	-8.52	QP	
6		745.6337	38.32	-1.46	36.86	46.00	-9.14	QP	



-	Fest Mo	de	BT (1	Mbps)		Test Date		2024	/2/19
Tes	st Frequ	lency		2MHz		Polarizatior	า		zontal
	Temp		2	2°C		Hum.		57	7%
80.0 dB	uV/m								
70									
60									
50					5				
40	1 2 × ×	A A A A A A A A A A A A A A A A A A A			×		6 X		
30							^		
20									
10									
0.0									
30.000 No.	127.00 Mk.	224.00 Freq.	321.00 Reading Level	418.00 Correct Factor	515.00 6 Measure- ment	12.00 70 Limit	9.00 806 Over	5.00	1000.00 MI
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		95.9923	53.99	-17.06	36.93	43.50	-6.57	peak	
2		122.8937	50.30	-14.01	36.29	43.50	-7.21	peak	
3		168.0310	50.84	-12.15	38.69	43.50	-4.81	QP	
4		172.0080	52.79	-12.42	40.37	43.50	-3.13	QP	
5	*	552.7977	48.37	-5.22	43.15	46.00	-2.85	QP	
6		744.5343	34.63	-1.49	33.14	46.00	-12.86	QP	



APPENDIX D RADIATED EMISSIONS - ABOVE 1 GHZ



	Test Mod st Freque				Mbps 2MHz	/				est Dat arizati) <u>23/1</u> orizo		
Tes	Temp	ency			2101112)°C					Hum.	OII		П	50%		
130.0 dB	uV/m				50					i iuiii.				307	0	
																Γ
120																
110																
100																
90																
80																
70							X									
60								ļ								
50		1													MWWWWW	
Unghalow	manth	MAN MARKAN	terre tetres	physociality	whereast	MAN	khtva.	40 m and 444 and	hr.hanterd.a	manpada	Anger May	www.ww	weethertheter	man	MMMMM and	1
40		×													×	
30																
20																
10.0																
2302.00	0 2322.00	2342.00) 2362	.00	2382.0)0	2402	.00	2422.	00 2	2442.0	0 24	62.00		2502.00	_мн
No.	Mk.	Freq.	Rea	•	Cor			asure	-	Limit		Over				
			Le		Fac			nent					_		_	
		MHz	dB		d			BuV/m		BuV/m		dB	Detect		Comme	ent
1		2344.647			-5.			0.53		74.00		23.47	peak			
2		2344.647			-5.			8.30		54.00		15.70	AVG			
3		2400.000			-5.			8.82		74.00		-5.18	peak		NoLim	
4	Х	2402.000			-5.			02.62		74.00		28.62	peak		NoLim	
5	*	2402.000			-5.			02.14		54.00		48.14	AVG		NoLim	it
6		2499.560			-5. -5.			0.34		74.00		23.66	peał AVG			
7		2499.560) 43.					8.27		54.00		15.73				



٢	Test Mo Test Frequ			I Mbps) 0MHz		Test Date Polarizatior)		/12/22 zontal
	Temp			0°C		Hum.	-)%
130.0	dBu¥/m							· · · · · · · · · · · · · · · · · · ·	
120									
110									
100					* *				
90 -									
80 -									
70									
					- 11				
60 -									
	1 Sun hermon h	Harden and Made	when when the second	R Morthela Marana	Mr. Suddame	Wellemand a	n	(h.Y. Marila Deraktan	. Marsell Marsel Marca
50 		naadusterinaansadattaadt	hear on the production	s.turkdadd-adapar	MM Statement	Ukupinakarintu	rhadren weiner	Ver Maple of Malayee	when the many have
50	1 2 X	nadatanangkatada	New wether Series	ndahan ^{ank} atana	6	Udupproductions of a	rtrad veran stribute	Un Washerson Anno	when add to come the second
50 40		nadotennenadotende	hedron of the production	staling have been a statement	6	Malaphantan Ma	rhadversen-stripade	(h(`liuphen)~~.etanja	when which has a second second
50 40 30 20 10.0	2 X				6 ×			Ver-Huph-wo-Asuro	when which the second
50 40 30 10.0 2380	2 X 0.000 2400.0	0 2420.00	2440.00	2460.00	6 × 2480.00 25	500.00 252	20.00 254	(h(`\!uph-u).~~	«м.«Ч/млчЦчым 2580.00 МН
50 40 30 20 10.0	2 X				6 ×				
50 40 30 20 10.0 2380	2 X 0.000 2400.0	0 2420.00	2440.00 Reading	2460.00 Correct	6 × 2480.00 25 Measure-	500.00 252	20.00 254		
50 40 30 10.0 2380	2 X 0.000 2400.0	0 2420.00 Freq.	2440.00 Reading Level	2460.00 Correct Factor	6 × 2480.00 25 Measure- ment	500.00 252 Limit	20.00 254 Over	0.00	2580.00 MH
50 40 30 10.0 2380	2 X 0.000 2400.0	0 2420.00 Freq. MHz	2440.00 Reading Level dBuV	2460.00 Correct Factor dB	6 X 2480.00 25 Measure- ment dBuV/m	500.00 252 Limit dBuV/m	20.00 254 Over dB	0.00 Detector	2580.00 MH
50 40 30 20 2380 No.	2 X 0.000 2400.0	0 2420.00 Freq. MHz 2385.393	2440.00 Reading Level dBuV 54.78	2460.00 Correct Factor dB -5.58	6 × 2480.00 25 Measure- ment dBuV/m 49.20	500.00 252 Limit dBuV/m 74.00	20.00 254 Over dB -24.80	0.00 Detector peak	2580.00 MH
50 40 30 20 10.0 2380 No.	2 X 0.000 2400.0 Mk.	0 2420.00 Freq. MHz 2385.393 2385.393	2440.00 Reading Level dBuV 54.78 43.60	2460.00 Correct Factor dB -5.58 -5.58	6 × 2480.00 25 Measure- ment dBuV/m 49.20 38.02	500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -24.80 -15.98	Detector peak AVG	2580.00 MH
50 40 30 20 10.0 2380 No. 1 2 3	2 X 0.000 2400.0 Mk.	0 2420.00 Freq. MHz 2385.393 2385.393 2480.000	2440.00 Reading Level dBuV 54.78 43.60 108.59	2460.00 Correct Factor dB -5.58 -5.58 -5.41	6 × 2480.00 25 Measure- ment dBuV/m 49.20 38.02 103.18	500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -24.80 -15.98 29.18	Detector peak AVG peak	2580.00 MH



	Test Mode				(3 Mb 402MH				Test Da Polariza				/12/22	
Tes	st Frequer Temp	icy		Ζ4	4021016 20°C	12	-		Hum.				zontal)%	
130.0 dB	uV/m				20 0				T IUTT.			50	J /0	
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70														-
60														
		4											6	
50 while	moundary	monthe	Mon	where and were	which	Mart Array	wand	Hundrich	manthespera	denergy	and the second	uptor some production of the second second		M
40		2 X											7	
30													×	1 I
													×	
20													x	
													×	
20	0 2322.00	2342.	00	2362.00	238	2.00	2402.	00 2	2422.00	2442.00	2462	2.00	× 2502.00	MH
20	0 2322.00 Mk.	2342. Freq.		Readin	g C	orrect	Mea	asure-	2422.00 Limit			2.00		MH
20 10.0 2302.00		Freq.		Readin Level	g C	orrect actor	Mea m	asure- nent	Limit	Ov	er		2502.00	
20 10.0 2302.00	Mk.	Freq. MHz		Readin Level dBuV	g C F	orrect actor dB	Mea m dB	asure- ient uV/m	Limit dBuV/i	Ov m de	er B	Detector		
20 10.0 2302.00 No.	Mk.	Freq. MHz 2336.66	67	Readin Level dBuV 56.37	g C F	orrect actor dB 5.67	Mea m dB 50	asure- ient uV/m 0.70	Limit dBuV/r 74.00	Ov m dE) -23.	er 3 30	Detector peak	2502.00	
20 10.0 2302.00 No. 1 2	Mk.	Freq. MHz 2336.66 2336.66	67 67	Readin Level dBuV 56.37 43.36	g C F	orrect actor dB 5.67 5.67	Mea m dB 50	asure- hent uV/m 0.70 7.69	Limit dBuV/r 74.00 54.00	Ov <u>m d</u>) -23.) -16.	er 3 30 31	Detector peak AVG	2502.00 Comme	ent
20 10.0 2302.00 No. 1 2 3	Mk.	Freq. MHz 2336.66 2336.66 2400.00	67 67 00	Readin Level dBuV 56.37 43.36 82.97	g C F - -	orrect actor dB 5.67 5.67 5.56	Mea m dB 50 37	asure- nent uV/m 0.70 7.69 7.41	Limit dBuV/r 74.00 54.00 74.00	Ov m dE) -23.) -16.) 3.4	er 3 30 31 1	Detector peak AVG peak	2502.00 Comme NoLim	ent it
20 10.0 2302.00 No. 1 2 3 4	Mk.	Freq. MHz 2336.66 2336.66 2400.00 2402.00	67 67 00	Readin Level dBuV 56.37 43.36 82.97 106.77	g C F - - - - - -	orrect actor dB 5.67 5.67 5.56 5.55	Mea m dB 50 37 71 10	asure- nent uV/m 0.70 7.69 7.41 1.22	Limit dBuV/i 74.00 54.00 74.00 74.00	Ov m dE) -23.) -16.) 3.4) 27.	er 3 30 31 1 22	Detector peak AVG peak peak	2502.00 Comme NoLim NoLim	ent it it
20 10.0 2302.00 No. 1 2 3	Mk.	Freq. MHz 2336.66 2336.66 2400.00	67 67 00 00	Readin Level dBuV 56.37 43.36 82.97	g C F - - 7 - 7 -	orrect actor dB 5.67 5.67 5.56	Mea m dB 50 33 77 10 97	asure- nent uV/m 0.70 7.69 7.41	Limit dBuV/r 74.00 54.00 74.00	Ov m dl) -23.) -16.) 3.4) 27.) 43.	er 3 30 31 1 22 72	Detector peak AVG peak	2502.00 Comme NoLim	ent it



٦	Test Mo Test Frequ			3 Mbps) 0MHz	F	Test Date Polarizatior	1		/12/22 zontal
130.0	Temp dBuV/m		2	0°C		Hum.		50)%
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80 -									
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60							_		
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50		nunananya	when the Watt See of Wildows a	malyanologia	hard harmalathan	-southernorthe	5 X Mufanduran/Man X	Nonversitation of the second	hanan an
50	1 2 2 X	nunnunun	inskeiten West Versterleiten geb	mahaanabahamad	Low how here here			n/monand/dat/1.kashqada	downoor a stand
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50 📈 40 30		nunununun	inskentreftrædet blendet til her også	mehyen referenced	John Marine Julion			Norman and Apola Lawy yor have	Jana lans fran fan F
50 40 30 20		munnun	she.tr.West WestWestPolistorph	novelege-right-getwood	low have been			^}~;~;~;~;~;;~;;~;;,~;;;	ilmetterstrepstalent
50 40 30 20 10.0				2460.00			X	ი	2580.00 MH
50 40 30	2 X		2440.00 Reading	2460.00 Correct	2480.00 25 Measure-		X		
50 40 30 20 10.0 2380	2 ×	0 2420.00 Freq.	2440.00 Reading Level	2460.00 Correct Factor	2480.00 25 Measure- ment	500.00 252 Limit	x 20.00 254 Over	0.00	2580.00 Mł
50 40 30 20 10.0 2380	2 ×	0 2420.00 Freq. MHz	2440.00 Reading Level dBuV	2460.00 Correct Factor dB	2480.00 25 Measure- ment dBuV/m	500.00 252 Limit dBuV/m	x 20.00 254 Over dB	0.00 Detector	
50 40 30 20 2380 No.	2 ×	0 2420.00 Freq. <u>MHz</u> 2386.647	2440.00 Reading Level dBuV 55.89	2460.00 Correct Factor dB -5.58	2480.00 25 Measure- ment dBuV/m 50.31	500.00 252 Limit dBuV/m 74.00	x 20.00 254 Over dB -23.69	0.00 Detector peak	2580.00 Mł
50 40 30 20 0.0 2380	2 ×	0 2420.00 Freq. MHz 2386.647 2386.647	2440.00 Reading Level dBuV 55.89 43.84	2460.00 Correct Factor dB -5.58 -5.58	2480.00 25 Measure- ment dBuV/m 50.31 38.26	500.00 252 Limit dBuV/m 74.00 54.00	x 20.00 254 Over dB -23.69 -15.74	Detector peak AVG	2580.00 Mł
50 40 30 20 2380 No. 1 2 2380	2 X 0.000 2400.00 Mk.	0 2420.00 Freq. <u>MHz</u> 2386.647	2440.00 Reading Level dBuV 55.89	2460.00 Correct Factor dB -5.58	2480.00 25 Measure- ment dBuV/m 50.31	500.00 252 Limit dBuV/m 74.00	x 20.00 254 Over dB -23.69	0.00 Detector peak	2580.00 Mi
40 30 20 10.0 2380 No. 1 2 3	2 X 0.000 2400.0 Mk.	0 2420.00 Freq. MHz 2386.647 2386.647 2480.000	2440.00 Reading Level dBuV 55.89 43.84 110.90	2460.00 Correct Factor dB -5.58 -5.58 -5.41	2480.00 25 Measure- ment dBuV/m 50.31 38.26 105.49	500.00 252 Limit dBuV/m 74.00 54.00 74.00	x 20.00 254 Over dB -23.69 -15.74 31.49	Detector peak AVG peak	2580.00 MH



	Test Mo st Frequ			I Mbps) 2MHz		Test Date Polarizatior	1		/2/19 tical
	Temp			2°C		Hum.			7%
130.0 dB	uV/m			1		1			
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10									
100									
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70									
50									
50		1							
40		1 2 2 2	<u>{</u>						
30			·						
20									
0.0	0 0700 0	0 4400.00	0100.00	7000.00	0500.00 1	1000.00 100	000.00 140	00.00	10000.00.00
No.	0 2700.0 Mk.	o 4400.00 Freq.	6100.00 Reading	7800.00 Correct	9500.00 1 Measure-	1200.00 129 Limit	900.00 146 Over	00.00	18000.00 MH
110.	IVIN.	i ieq.	Level	Factor	ment	LIIIII	UVEI		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000) 42.69	0.50	43.19	74.00	-30.81	peak	
2	*	4804.000) 35.82	0.50	36.32	54.00	-17.68	AVG	



	Test Mo				Mbps)		Test Date			/2/19
les	st Frequ				2MHz		Polarizatio	n		zontal
130.0 dB)		22	2°C		Hum.		57	7%
130.0 08	uv/m									
120										
10										
90										
30										
70 —										
50										
50										
			1 X							
10			2 X							
30			×							
20										
10.0										
1000.00	0 2700.0	0 4400.0	DO	6100.00	7800.00	9500.00 1	1200.00 12	2900.00 146	60.00	18000.00 MH
No.	Mk.	Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.00	00	43.32	0.50	43.82	74.00	-30.18	peak	
2	*	4804.00	00	33.15	0.50	33.65	54.00	-20.35	AVG	



	Test Mo st Frequ			1 Mbps) 41MHz		Test Date Polarization	n		/2/19 tical
	Temp			22°C		Hum.			7%
130.0 dB	uV/m .								
120									
110									
100									
90									
80									
70									
60									
50									
40			1 X						
			2 X						
30			<u>^</u>						
20									
10.0									
	0 2700.0			7800.00				600.00	18000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000) 44.91	0.74	45.65	74.00	-28.35	peak	
2	*	4882.000) 32.41	0.74	33.15	54.00	-20.85	AVG	

	Test Mo			Mbps)		Test Date			1/2/19
10	est Frequ			<u>1MHz</u> 2°C		Polarization	n		zontal
130.0	Temp dBuV/m)	Ζ.	2.0		Hum.		S	7%
130.0	0001711								
120									
10									
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30									
'0 <u> </u>									
50									
50									
10 L		1 X							
		2 X							
30		^							
20									
10.0									
1000.0	000 2700.0	0 4400.00	6100.00	7800.00	9500.00 1	1200.00 12	900.00 146	500.00	18000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000	43.46	0.74	44.20	74.00	-29.80	peak	Commont
2	*	4882.000	32.37	0.74	33.11	54.00	-20.89	AVG	



-	Test Mo Test Freq				Mbps) 0MHz		Test Date Polarizatio			l/2/19 tical
	Tem				2°C		Hum.	11		10001 7%
130.0	dBuV/m	9		<u> </u>	20		Tium.			70
Γ										
120										
110										
100										
90										
80 -										
70										
60										
60										
50			1 X							
40 -										
30			2 X							
20										
10.0	000 0700				7000.00	0500.00				
No.	.000 2700. Mk.			6100.00 Roading	7800.00 Correct	9500.00 Measure-		900.00 146 Over	00.00	18000.00 MHz
INU.	IVIN.	Freq.		Reading Level	Factor	ment		Over		
		MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.00	00	44.33	0.99	45.32	74.00	-28.68	peak	
2	*	4960.00	00	32.39	0.99	33.38	54.00	-20.62	AVG	



	est Mo t Frequ				Mbps) 0MHz		Test Da Polarizat			l/2/19 zontal
165	Temp				2°C		Hum.			7%
130.0 dB	uV/m			£	20				01	70
120										
10										
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30										
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50			1 X							
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			2 X							
30										
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	D 2700.0	0 4400.	00	6100.00	7800.00				00.00	18000.00 MH
No.	Mk.	Freq.		Reading	Correct	Measure	- Limit	Over		
		N 41 1		Level	Factor	ment			Datast	0
4		MHz	0	dBuV	dB	dBuV/m			Detector	Comment
1	*	4960.00		44.00	0.99	44.99	74.00		peak	
2		4960.00	JU	32.36	0.99	33.35	54.00	-20.65	AVG	



	Test Mo st Frequ		-		Mbps) 2MHz			Test Dat Polarizati			1/2/19 tical
	Temp				2°C			Hum.			7%
130.0 dE	uV/m				-						
120											
110											
100											
90											
30											
BO											
70											
60											
50											
			1 X								
40			2								
30			x								
20											
10.0											
	0 2700.0				7800.00	9500.00			12900.00	14600.00	18000.00 MH
No.	Mk.	Freq.	Rea		Correct	Measu		Limit	Ove	r	
			Le		Factor	men					<u> </u>
		MHz	dB		dB	dBuV		dBuV/n		Detector	Comment
1		4804.00			0.50	44.1		74.00	-29.8		
2	*	4804.00	0 32.	.06	0.50	32.5	6	54.00	-21.4	4 AVG	



	Test Mo				Mbps)		Test Date			/2/19
le	st Frequ		_		2MHz		Polarizatio	n		zontal
130.0 d	Temp BuV/m)		22	2°C		Hum.		57	7%
130.0 u	buy/m									
120										
10										
00										
90 —										
30										
'0 <u> </u>										
50										
50										
40			1 X							
			2							
30			x							
20										
10.0										
	00 2700.0			6100.00	7800.00	9500.00			00.00	18000.00 MH
No.	Mk.	Freq.	F	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz		dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.00	0	44.13	0.50	44.63	74.00	-29.37	peak	
2	*	4804.00	0	31.47	0.50	31.97	54.00	-22.03	AVG	



	Test Mo st Frequ			3 Mbps) 1MHz		Test Date Polarizatior	n		l/2/19 tical
	Temp			2°C		Hum.			7%
130.0 dB	uV/m	í	1						
120									
10									
100									
90									
30									
'0 									
50									
50			k						
10 <u> </u>			< 2						
30		>	ζ.						
20									
10.0									
	0 2700.0			7800.00				00.00	18000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000	44.35	0.74	45.09	74.00	-28.91	peak	
2	*	4882.000	32.47	0.74	33.21	54.00	-20.79	AVG	



	t Frequ Temp W/m			y 2441MHz 22°C						Test Date Polarization				2024/2/19 Horizontal		
120					22°C					Hum.	011			2011tai 7%		
					22 0					Tiurri.			01	/0		
110																
00																
0																
30																
70																
50																
50			1 X													
10 																
			2 X													
30																
20																
10.0																
1000.000				6100.00		00.00	9500).00	112		2900.00		00.00	18000.00 M		
No.	Mk.	Freq.		Readin		orrect		easure-	-	Limit	Ov	er				
		N 41 1		Level	F	actor		ment					Datasta	0		
1		MHz		dBuV		dB		BuV/m		dBuV/m			Detector	Comment		
2	*	4882.0		43.97 32.37		0.74 0.74		44.71 33.11		74.00 54.00	-29. -20.		peak AVG			



	Test Mo st Frequ			3 Mbps) 30MHz		Test Date Polarization			/2/19 tical
	Temp			2°C		Hum.			7%
130.0 dB	uV/m			- 0		. I Girli		0.	/0
120									
110									
100									
90									
BO									
70									
60									
50			1 X						
40									
			2 X						
30									
20									
10.0									
1000.00	0 2700.0	0 4400.00	6100.00	7800.00	9500.00 1	1200.00 12	900.00 146	00.00	18000.00 MH
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	44.00	0.99	44.99	74.00	-29.01	peak	
2	*	4960.000	32.24	0.99	33.23	54.00	-20.77	AVG	



	Test Mo			BT (3 N				Test D				/2/19
1	Test Frequ			2480				Polariza				zontal
	Temp	C		22°	С			Hum	۱.		57	7%
130.0	dBuV/m											
120												
110 _												
100												
90 -												
80 -												
70												
60 —												
50			1 X									
40			2 X									
30			^									
20												
10.0	.000 2700.0	00 4400.0	0 6100	00 7	800.00	9500.	00 1	1200.00	12900	00 140	:00.00	18000.00 MH
No.	Mk.	Freq.	Rea		Correct		asure-			Over	00.00	10000.00 MI
		1.04.		•	Factor		nent		•	0.00		
		MHz	dB		dB	dB	uV/m	dBuV	/m	dB	Detector	Comment
1		4960.00	0 46.	00	0.99	4	6.99	74.0	0	-27.01	peak	
2	*	4960.00	0 32.	32	0.99	3	3.31	54.0	0	-20.69	AVG	



	Test M	lode			BT (1	Mhn	s)			-	Test Da	ate			2023	/12/25
-	Test Fred		/			2MH					olariza					tical
	Terr					1°C	_				Hum					3%
130.0	dBuV/m															
120																
110 -																
100 -																
90 —																
80 -																
70																
60 -																
50																
40 -		1 X														
30 -		2 X														
20																
10.0																
1800	0.000 1885	50.00	19700.00	205	50.00	2140	0.00	2225	50.00	231	00.00	2395	50.00	2480	0.00	26500.00 MH
No.	Mk.	F	req.		ding vel		rrect ctor		easur ment	e-	Limit	t	Ove	ər		
		ſ	ИНz		ωV		IB		BuV/r	n	dBuV/	′m	dE	3	Detector	Comment
1		192	216.00	44	.48	-7	.23	3	37.25		74.00)	-36.	75	peak	
2	*	192	216.00	34	.21	-7	.23		26.98		54.00	0	-27.	02	AVG	

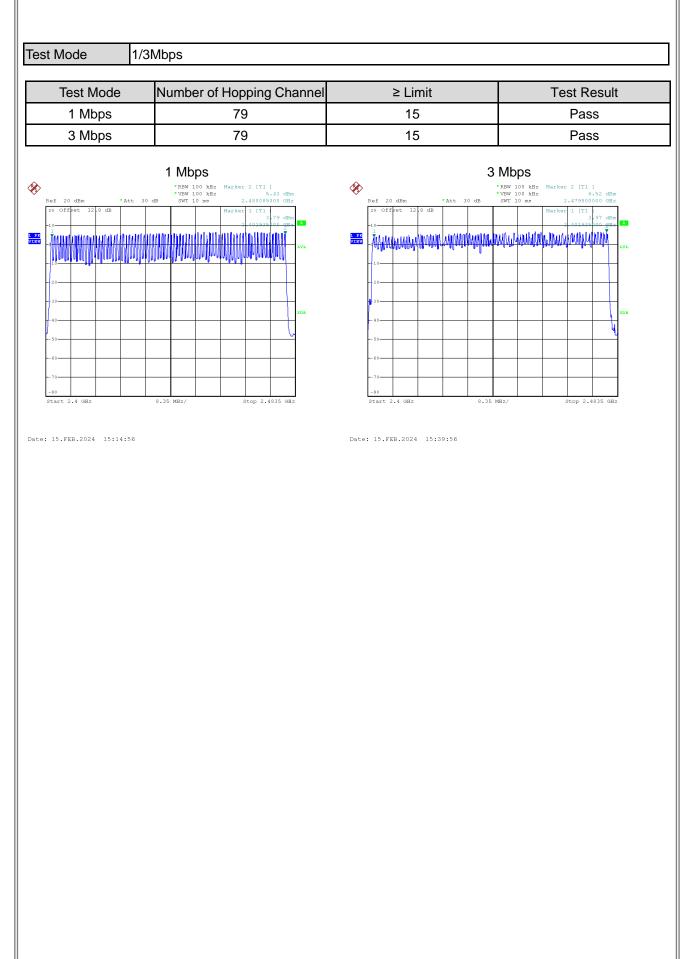


	Test M	lode			BT (1	Mbp	s)			٦	Fest D	ate			2023	/12/25	
Т	est Frec		/			2MH	Z			P	olariza					zontal	
	Tem	р			2	1°C					Hum	ı.			58	3%	
130.0	dBuV/m																_
120																	
110																	_
100 -																	_
90 -																	_
80																	_
70																	
60 -																	_
50																	
40		1 X															_
30		2 X															_
20																	_
10.0																	
1800	0.000 1885	0.00	19700.00	205	50.00	2140	0.00	2225	50.00	231	00.00	239	50.00	2480)0.00	26500.	00 MHz
No.	Mk.	F	req.		ding vel		rrect ctor		easure ment	э-	Limi	t	Ove	er			
			MHz		SuV		βB		3uV/n	n	dBuV/	/m	dE	3	Detector	Comm	nent
1			216.00		.12		.23		36.89		74.0		-37.		peak		
2	*	19	216.00	33	.38	-7	.23	2	26.15		54.0	0	-27.	85	AVG		



APPENDIX E NUMBER OF HOPPING CHANNEL



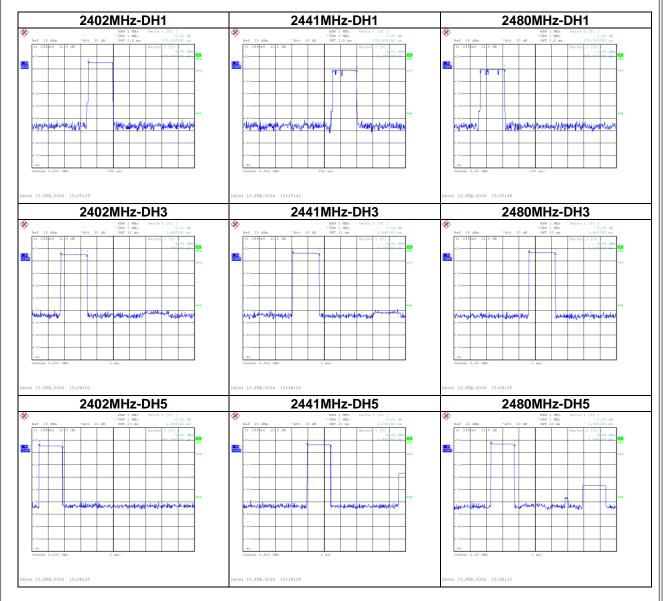




APPENDIX F AVERAGE TIME OF OCCUPANCY



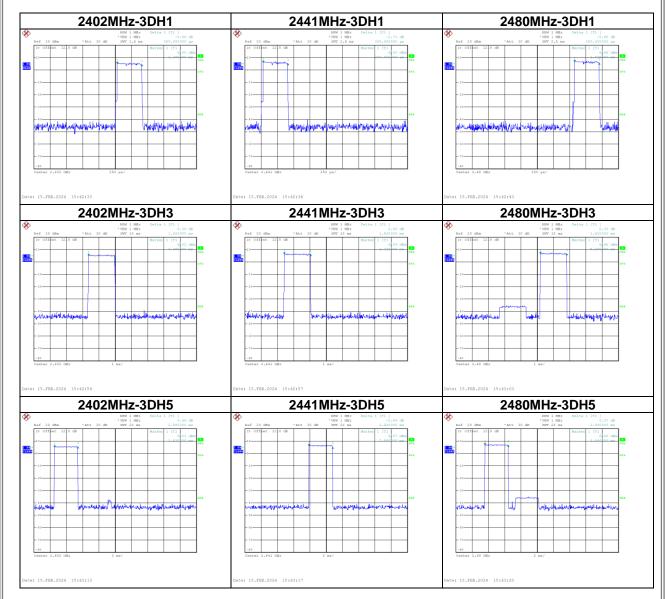
Test Mode :	1Mbps				
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6200	0.2592	0.4000	Pass
DH1	2402	0.3750	0.1200	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3700	0.1184	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6200	0.2592	0.4000	Pass
DH1	2480	0.3750	0.1200	0.4000	Pass





Test Mode : 3Mbps

Pulse Data Packet Frequency Dwell Time(s) Limits(s) **Test Result** Duration(ms) 3DH5 2402 2.8800 0.3072 0.4000 Pass Pass 3DH3 2402 1.6200 0.2592 0.4000 3DH1 2402 0.3800 0.1216 0.4000 Pass 3DH5 2441 2.9200 0.3115 0.4000 Pass 3DH3 2441 1.6200 0.2592 0.4000 Pass 2441 3DH1 0.3800 0.1216 0.4000 Pass Pass 3DH5 2480 0.4000 2.8800 0.3072 3DH3 2480 1.6200 0.2592 0.4000 Pass 3DH1 2480 0.3800 0.1216 0.4000 Pass





APPENDIX G HOPPING CHANNEL SEPARATION MEASUREMENT



Test Mode :	Hopping on _1Mbps		
Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.996	0.679	Pass
2441	0.866	0.636	Pass
2480	1.020	0.640	Pass





Test Mode : Hopping on _3Mbps						
Frequency (MHz)		Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result		
	2402	0.996	0.868	Pass		
	2441	0.996	0.863	Pass		
	2480	1.005	0.868	Pass		

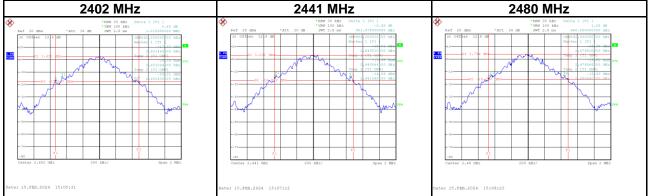




APPENDIX H	BANDWIDTH



Test Mode : 1Mbps							
Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result				
2402	2 1.019 0.892		Pass				
2441	2441 0.954 0.904		Pass				
2480	0.960	0.892	Pass				
			- /				





Test Mode : 3Mbps							
Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result				
2402 1.302		1.192	Pass				
2441	1.295	1.295 1.196					
2480	1.302	1.184	Pass				





APPENDIX I	OUTPUT POWER	





Test Mode : BT(1 Mbps)				Tested Date 2024/2/15		
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result	
2402	-4.72	0.0003	20.97	0.1250	Pass	
2441	-4.35	0.0004	20.97	0.1250	Pass	
2480	-3.64	0.0004	20.97	0.1250	Pass	

Test Mode :

BT(2 Mbps)

Tested Date 2024/2/15

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-4.46	0.0004	20.97	0.1250	Pass
2441	-3.72	0.0004	20.97	0.1250	Pass
2480	-2.81	0.0005	20.97	0.1250	Pass

Test Mode : BT(3 Mbps)

Tested Date 2024/2/15

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-4.11	0.0004	20.97	0.1250	Pass
2441	-3.70	0.0004	20.97	0.1250	Pass
2480	-2.97	0.0005	20.97	0.1250	Pass



APPENDIX J ANTENNA CONDUCTED SPURIOUS EMISSION



