



TEST REPORT

Applicant Name : Address : Report Number : FCC ID: JEM ACCESSORIES INC. 32 Brunswick Avenue, Edison, New Jersey, United States 08817 SZNS211222-66251E-RF-00A 2AHAS-MTH91002O

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type:

Model No.: Multiple Model(s) No.:

Trade Mark: Date Received: Date of Test: Report Date: Monster BT Transmitter/Receiver with Optical Port and 3.5mm Aux Jack w/Headband MTH9-1002 MTH9-1002-BLK (Please refer to DOS for model difference) 2021/12/22 2021/12/22 2021/12/29~2022/01/21 2022/01/25

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Black Mrs)

Black Ding EMC Engineer

Approved By:

Chant li

Robert Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "* ".

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GENERAL INFORMATION

Frequency Range	Bluetooth: 2402~2480MHz
Maximum conducted Peak output power	Bluetooth: 1.76dBm
Modulation Technique	Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Specification*	-0.58dBi (provided by the applicant)
Voltage Range	DC 3.7V from battery or DC 5V adapter
Sample serial number	SZNS211222-66251E-RF-S1 (CE&RE Test) SZNS211222-66251E-RF-S2 (RF Conducted Test) (Assigned by ATC)
Sample/EUT Status	Good condition

Product Description for Equipment under Test (EUT)

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty	
Occupied Cha	nnel Bandwidth	5%	
RF output po	wer, conducted	0.73dB	
Unwanted Emi	ssion, conducted	1.6dB	
AC Line Conducted emission		2.72dB	
	30MHz - 1GHz	4.28dB	
Emissions, Radiated	1GHz - 18GHz	4.98dB	
Tudiated	18GHz - 26.5GHz	5.06dB	
Temperature		1 °C	
Humidity		6%	
Supply	voltages	0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

"FCC_assist_1.0.2.2"* software was use to the EUT tested and power level is 6*. The software and power level was provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
TECNO	Adapter	U100TSA	BJD202010261
SANSUI	DVD	DV-93A	Unknown
Unknown	Earphone	Unknown	Unknown

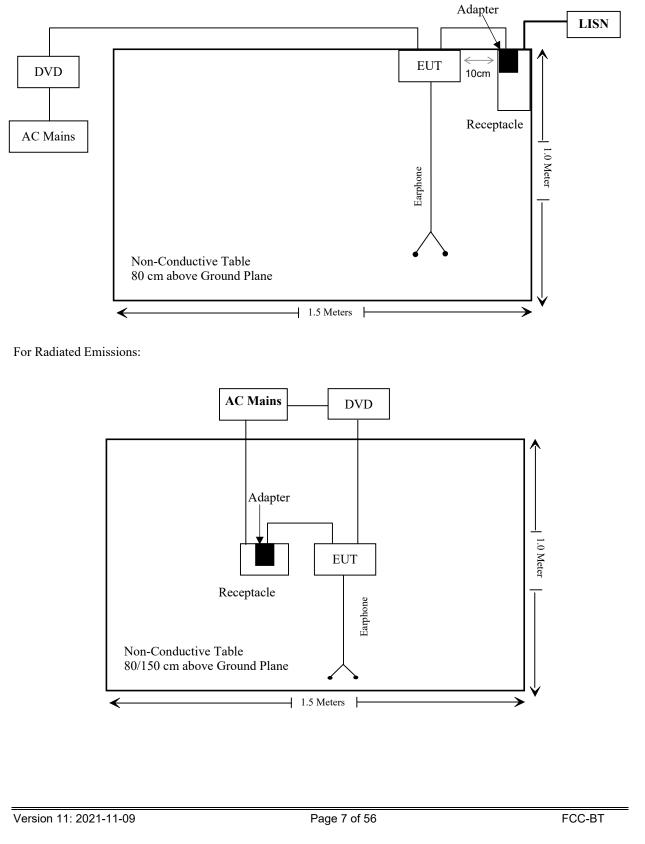
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielded detachable DC cable	0.5	Adapter	EUT
Un-shielded detachable Optical cable	2.0	EUT	DVD
Un-shielded detachable AC cable	1.0	DVD	AC Mains

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Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliance
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
	Conducted Emissions Test						
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12		
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12		
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12		
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13		
Conducted Emission	n Test Software: e3 198	21b (V9)					
		Radiated Emissi	ions Test				
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12		
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12		
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08		
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08		
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2021/11/11	2022/11/10		
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04		
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04		
Radiated Emission 7	Radiated Emission Test Software: e3 19821b (V9)						
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13		
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13		
RF Conducted Test							
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12		
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/07/06	2022/07/05		
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	/		
Unknown	RF Cable	Unknown	Unknown	Each time	/		

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

	Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)			
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	$*(180/f^2)$	30			
30-300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			

Limits for General Population/Uncontrolled Exposure

f = frequency in MHz

* = Plane-wave equivalent power density

a)

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$\mathbf{S} = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Anter	nna Gain	Tune up conducted power		Evaluation Distance	Power Density	MPE Limit
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mW/cm^2)	$(\mathrm{mW/cm}^2)$
2402-2480	-0.58	0.87	2.0	1.58	20	0.0003	1

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has one internal antenna, which was permanently attached, and the maximum antenna gain is -0.58dBi, fulfill the requirement of this section. Please refer to the EUT photos.

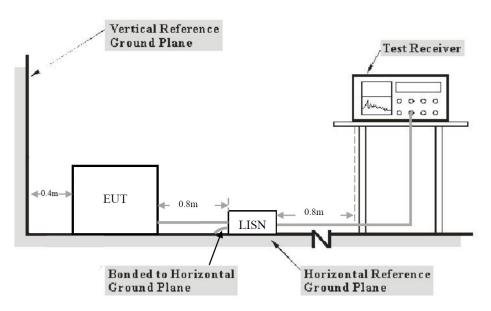
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss. The basic equation is as follows:

Transd Factor = LISN VDF + Cable Loss

The "**Over Limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Over Limit = Level – Limit Level= Reading level+ Transd Factor

Test Data

Environmental Conditions

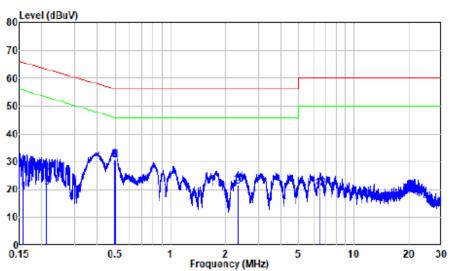
Temperature:	22°C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Bin Duan on 2022-01-08.

EUT operation mode: Transmitting (worst case is 8DPSK mode, low channel)

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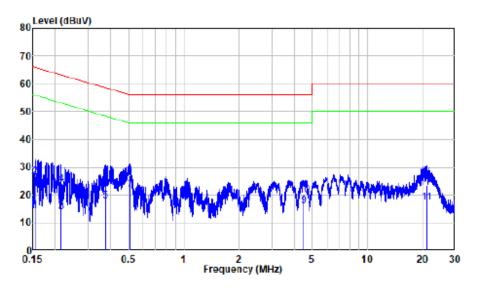
AC 120V/60 Hz, Line



			Read		Limit	Over	
	Freq	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.91	4.37	14.28	55.74	-41.46	Average
2	0.155	9.91	16.61	26.52	65.74	-39.22	QP
3	0.215	9.99	3.95	13.94	53.01	-39.07	Average
4	0.215	9,99	13.89	23.88	63.01	-39.13	QP
5	0.373	9,93	7.92	17.85	48.43	-30.58	Average
6	0.373	9.93	14.11	24.04	58.43	-34.39	QP
7	0.505	9.90	11.77	21.67	46.00	-24.33	Average
8	0.505	9.90	16.94	26.84	56.00	-29.16	QP
9	4.504	10.04	5.94	15.98	46.00	-30.02	Average
10	4.504	10.04	9.84	19.88	56.00	-36.12	QP -
11	20.994	10.22	6.91	17.13	50.00	-32.87	Average
12	20.994	10.22	13.30	23.52	60.00	-36.48	QP

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AC 120V/60 Hz, Neutral



			Read		Limit	Over	
	Freq	Factor	Leve1	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.91	4.37	14.28	55.74	-41.46	Average
2	0.155	9.91	16.61	26.52	65.74	-39.22	QP
3	0.215	9.99	3.95	13.94	53.01	-39.07	Average
4	0.215	9.99	13.89	23.88	63.01	-39.13	QP
5	0.373	9.93	7.92	17.85	48.43	-30.58	Average
6	0.373	9.93	14.11	24.04	58.43	-34.39	QP
7	0.505	9.90	11.77	21.67	46.00	-24.33	Average
8	0.505	9.90	16.94	26.84	56.00	-29.16	QP
9	4.504	10.04	5.94	15.98	46.00	-30.02	Average
10	4.504	10.04	9.84	19.88	56.00	-36.12	QP
11	20.994	10.22	6.91	17.13	50.00	-32.87	Average
12	20.994	10.22	13.30	23.52	60.00	-36.48	QP

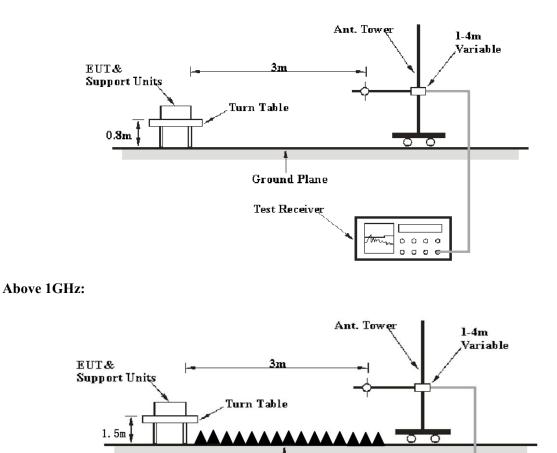
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.247 limits.

Ground Plane

Test Receiver

0000

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz - 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Abaya 1 CHr	1 MHz	3 MHz	/	РК
Above 1 GHz	1 MHz	10 Hz	/	Average

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

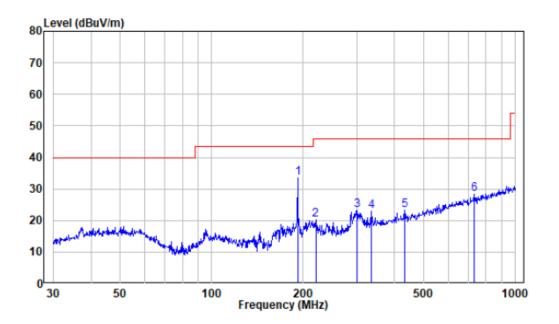
Temperature:	21 °C
Relative Humidity:	62 %
ATM Pressure:	101.0 kPa

The testing was performed by Paul Liu on 2022-01-09 for below 1GHz and 2022-01-21 for above 1GHz.

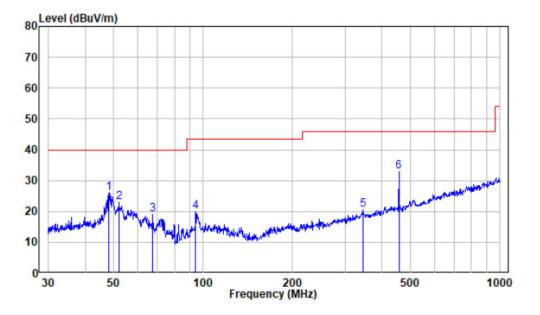
EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case of orientation was recorded)

30MHz-1GHz: (worst case is 8DPSK mode, Low channel)

Horizontal:



	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	191.745	-11.29	44.83	33.54	43.50	-9.96	Peak
2	219.845	-11.42	31.53	20.11	46.00	-25.89	Peak
3	301.422	-9.18	32.55	23.37	46.00	-22.63	Peak
4	336.035	-7.58	30.46	22.88	46.00	-23.12	Peak
5	431.032	-5.77	29.13	23.36	46.00	-22.64	Peak
6	729.358	-0.96	29.48	28.52	46.00	-17.48	Peak





	Freq	Factor			Limit Line		Remark
		dB/m					
1	47.994	-10.00	36.11	26.11	40.00	-13.89	
	52.025 67.675						
4	94.428	-12.60	32.39	19.79	43.50	-23.71	Peak
5 6	344.386 455.906						

Above 1GHz:

-	Re	eceiver	T	Rx An	itenna	Corrected	Corrected	.	
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)		Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Low Channel (2402 MHz)									
2310	67.93	PK	114	1.9	Н	-7.24	60.69	74	-13.31
2310	53.02	Ave.	114	1.9	Н	-7.24	45.78	54	-8.22
2310	67.68	РК	299	1.6	V	-7.24	60.44	74	-13.56
2310	53.05	Ave.	299	1.6	V	-7.24	45.81	54	-8.19
2390	68.63	РК	102	1.1	Н	-7.22	61.41	74	-12.59
2390	54.41	Ave.	102	1.1	Н	-7.22	47.19	54	-6.81
2390	68.26	РК	187	2.4	V	-7.22	61.04	74	-12.96
2390	54.39	Ave.	187	2.4	V	-7.22	47.17	54	-6.83
4804	58.55	РК	247	2.4	Н	-3.51	55.04	74	-18.96
4804	48.41	Ave.	247	2.4	Н	-3.51	44.90	54	-9.10
4804	55.81	РК	27	1.8	V	-3.51	52.30	74	-21.70
7206	53.58	РК	41	1.6	Н	2.67	56.25	74	-17.75
7206	43.00	Ave.	41	1.6	Н	2.67	45.67	54	-8.33
7206	52.22	РК	234	2.5	V	2.67	54.89	74	-19.11
7206	38.94	Ave.	234	2.5	V	2.67	41.61	54	-12.39
			Middle C	hannel	(2441 N	(Hz)			
4882	55.93	РК	314	1.9	Н	-3.38	52.55	74	-21.45
4882	55.53	РК	174	1.4	V	-3.38	52.15	74	-21.85
7323	56.26	РК	318	1.1	Н	3.31	59.57	74	-14.43
7323	47.41	Ave.	318	1.1	Н	3.31	50.72	54	-3.28
7323	51.87	РК	296	1.7	V	3.31	55.18	74	-18.82
7323	38.36	Ave.	244	1.7	V	3.31	41.67	54	-12.33
		•	High Ch	nannel (2	2480 M	Hz)			
2483.5	69.72	РК	349	1.5	Н	-7.2	62.52	74	-11.48
2483.5	57.35	Ave.	349	1.5	Н	-7.2	50.15	54	-3.85
2483.5	69.21	РК	21	2.1	V	-7.2	62.01	74	-11.99
2483.5	54.88	Ave.	21	2.1	V	-7.2	47.68	54	-6.32
2500	68.58	РК	281	2.2	Н	-7.18	61.4	74	-12.6
2500	54.42	Ave.	281	2.2	Н	-7.18	47.24	54	-6.76
2500	68.76	РК	4	1.5	V	-7.18	61.58	74	-12.42
2500	54.23	Ave.	4	1.5	V	-7.18	47.05	54	-6.95
4960	54.58	РК	238	2.1	Н	-3.01	51.57	74	-22.43
4960	54.12	РК	235	1.9	V	-3.01	51.11	74	-22.89
7440	55.76	РК	140	1.6	Н	3.53	59.29	74	-14.71
7440	44.38	Ave.	140	1.6	Н	3.53	47.91	54	-6.09
7440	52.01	РК	26	2.4	V	3.53	55.54	74	-18.46
7440	38.70	Ave.	26	2.4	V	3.53	42.23	54	-11.77

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading Margin = Corrected. Amplitude - Limit

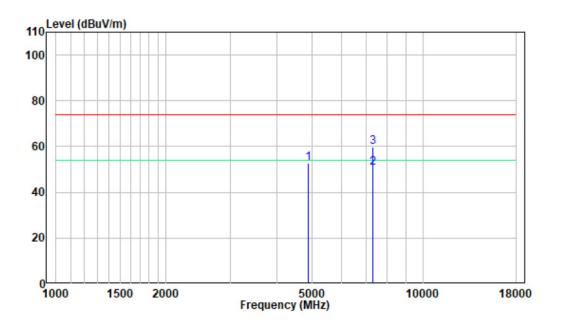
The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak value were recorded.

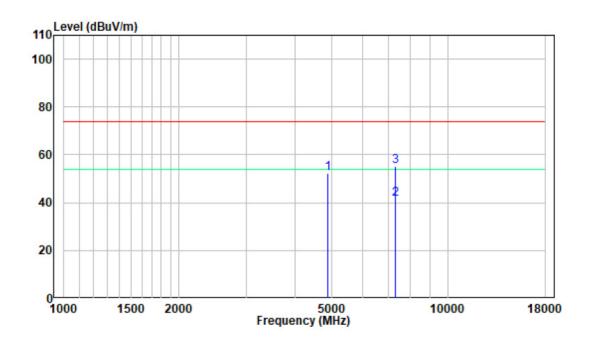
1-18GHz

Pre-scan plots for Middle channel

Horizontal:



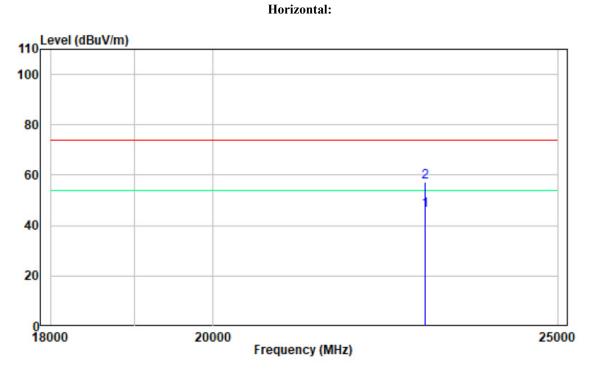
Vertical:



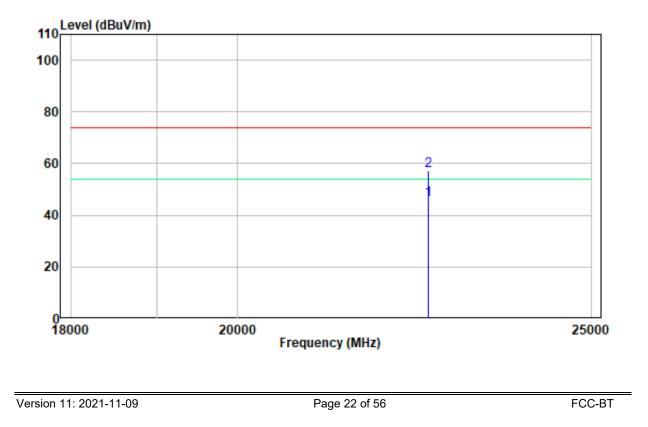
Report No.: SZNS211222-66251E-RF-00A

18-25GHz

Pre-scan plots for Middle channel



Vertical:



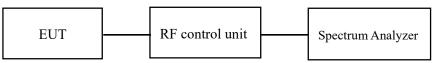
FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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 provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

- a. Set the EUT in transmitting mode, maxhold the channel.
- b. Set the adjacent channel of the EUT and maxhold another trace.
- c. Measure the channel separation.



Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-12-29.

EUT operation mode: Transmitting

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

Applicable Standard

Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

Test Procedure

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

• The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

• The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

• The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.

• The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 20 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

EUT -		RF control unit		Spectrum Analyzer
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Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-12-29.

EUT operation mode: Transmitting

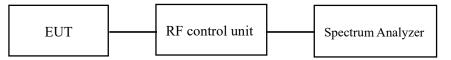
FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

- d. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- e. Set the EUT in hopping mode from first channel to last.
- f. By using the max-hold function record the quantity of the channel.



Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-12-29.

EUT operation mode: Transmitting

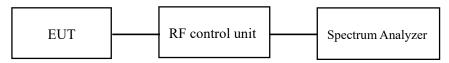
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

- g. The EUT was worked in channel hopping.
- h. Set the RBW to: 1MHz.
- i. Set the VBW $\geq 3 \times RBW$.
- j. Set the span to 0Hz.
- k. Detector = peak.
- l. Sweep time = auto couple.
- m. Trace mode = max hold.
- n. Allow trace to fully stabilize.
- o. Recorded the time of single pulses



Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	55 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-12-29.

EUT operation mode: Transmitting

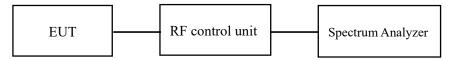
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

- 1. Place the EUT on a bench and set in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	22 °C	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Black Ding on 2021-12-29.

EUT operation mode: Transmitting

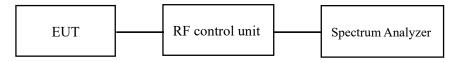
FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in \$15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in \$15.205(a), must also comply with the radiated emission limits specified in \$15.209(a) (see \$15.205(c)).

Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- c. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	22 °C	
Relative Humidity:	55 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Black Ding on 2021-12-29.

EUT operation mode: Transmitting

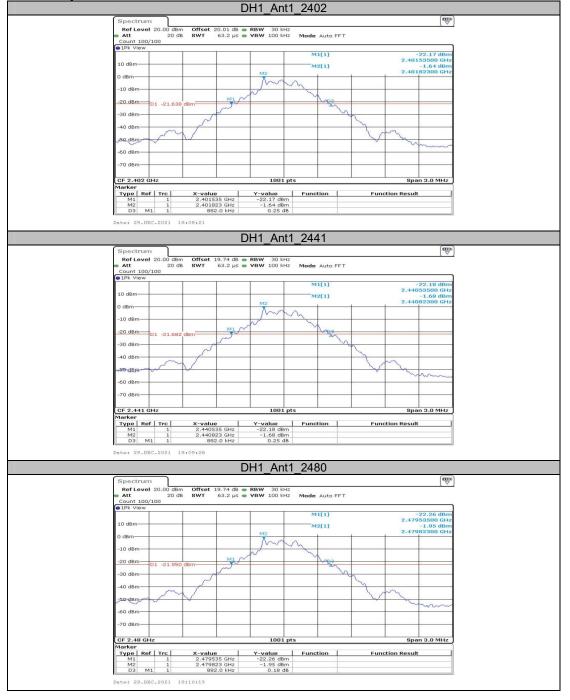
APPENDIX

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.882		PASS
		2441	0.882		PASS
		2480	0.882		PASS
2DH1	Ant1	2402	1.248		PASS
		2441	1.248		PASS
		2480	1.248		PASS
3DH1	Ant1	2402	1.218		PASS
		2441	1.218		PASS
		2480	1.218		PASS

Test Graphs





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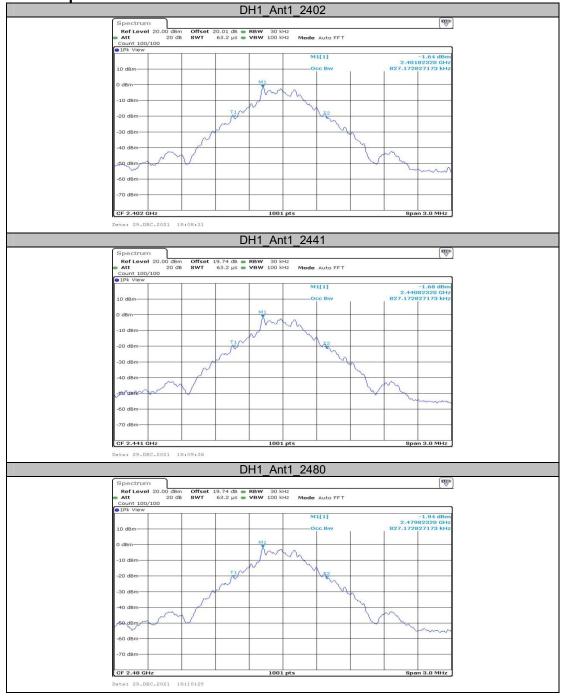


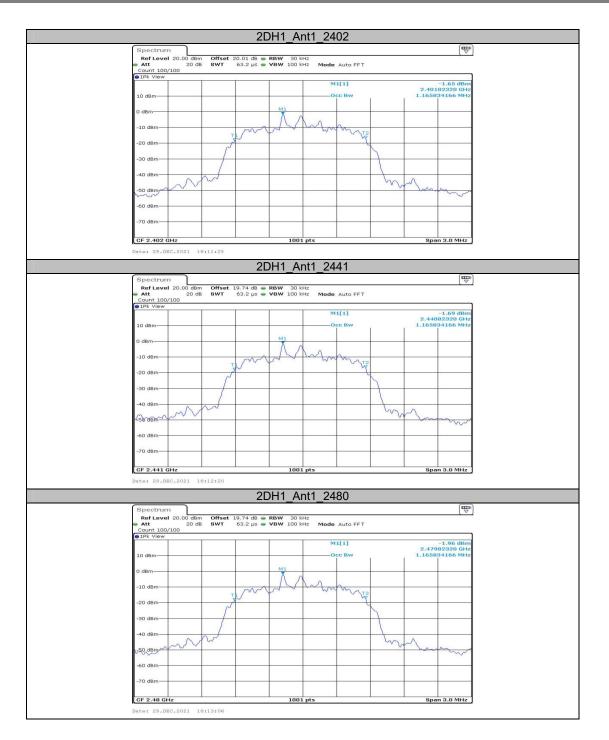
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Appendix B: Occupied Channel Bandwidth Test Result

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
DH1 Ant1	2402	0.827		PASS	
	Ant1	2441	0.827		PASS
		2480	0.827		PASS
2DH1	Ant1 2402 2441 2480	2402	1.166		PASS
		2441	1.166		PASS
		2480	1.166		PASS
3DH1	Ant1 2441	2402	1.154		PASS
		2441	1.154		PASS
		2480	1.157		PASS

Test Graphs







Appendix C: Maximum conducted Peak output power Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	0.47	≤20.97	PASS
DH1	Ant1	2441	0.44	≤20.97	PASS
		2480	0.19	≤20.97	PASS
		2402	1.21	≤20.97	PASS
2DH1	Ant1	2441	1.15	≤20.97	PASS
		2480	0.93	≤20.97	PASS
		2402	1.76	≤20.97	PASS
3DH1	Ant1	2441	1.73	≤20.97	PASS
		2480	1.46	≤20.97	PASS

		DH1_Ant1_2	402		(m)
Ref Level 20.00 dBm	Offset 20.01 dB @	RBW 3 MHz		(
 Att 20 dB Count 100/100 1Pk View 	SWT 1 ms	VBW 10 MHz Mc	de Auto Sweep		_
			M1[1]	0.47 d 2.40193610 (dBm GHz
10 dBm		M			
0 dBm					
-10 dBm					
-20 dBm-					
-30 dBm					
-40 dBm-					
-50 dBm					
-60 dBm					
-70 dBm					
CF 2.402 GHz		1001 pts		Span 8.0 Mi	IHz
Date: 29.DEC.2021 18:	08:46				
		DH1_Ant1_2	2441		
Spectrum Ref Level 20.00 dBm	Offset 19.74 dB	PRW 2 MH2			
Att 20 dB Count 100/100	SWT 1 ms	VBW 10 MHz Mc	de Auto Sweep		
1Pk View			M1[1]	0.44 d 2.44095200 (dBm
10 dBm				2.44853200 0	012
0 dBm-		M.			
-10 dBm					-
-20 dBm-					
-30 dBm		-			
-40 dBm-					_
-50 dBm					-
-60 dBm					
-70 dBm					
CF 2.441 GHz		1001 pts		Span 8.0 Mi	IHz
Date: 29.DEC.2021 18:	09:42	1001 pts		opuroiom	
		DH1_Ant1_2	480		
Spectrum					
Ref Level 20.00 dBm Att 20 dB Count 100/100	Offset 19.74 dB SWT 1 ms	VBW 10 MHz Mc	de Auto Sweep		
• 1Pk View	Ī		M1[1]	0.19 d	dBm
10 dBm			+ +	2.47984020 0	GHZ
0 dBm		M1			
-10 dBm					_
-20 dBm					/
-30 dBm					
-40 dBm					_
-50 dBm		<u> </u>			
-60 dBm			1		
2 - C - C - C - C - C - C - C - C - C -					
-50 dBm -70 dBm CF 2.48 GHz		1001 pts		Span 8.0 Mi	

		20	DH1_Ant	1_2402			
Spectrum							
Ref Level 20.0	0 dBm Offset 20 dB SWT	20.01 dB 👄 1 ms 👄	RBW 3 MHz VBW 10 MHz	Mode Auto Swe	зер		
Count 100/100 IPk View	1						1 01 10
10 dBm				M1[1]		2.401	1.21 dBm 71230 GHz
			MI				
0 dBm							
-10 dBm							
-20 dBm							
-30 dBm		-					· · · ·
-40 dBm							
-50 dBm							
-60 dBm							
-70 dBm							
CF 2.402 GHz			1001 pt	s		Spa	n 8.0 MHz
Date: 29.DEC.20	21 18:11:39						
	-	20	DH1_Ant	1_2441			
Spectrum Ref Level 20.0	dBm Offset	10 74 dB	RBW 3 MHz				(₩
 Att Count 100/100 	20 dB SWT	1 ms 🖷	VBW 10 MHz	Mode Auto Swe	зер		
• 1Pk View	1	Ĩ	1	M1[1]			1.15 dBm
10 dBm		-			-	2.440	82420 GHz
0 dBm			MI				
-10 dBm							
and the second se							
-20 dBm							
-30 dBm							
-40 dBm							
-50 dBm							
-60 dBm							
-70 dBm							
-/o dbm							
CF 2.441 GHz		1	1001 pt	5		Spa	n 8.0 MHz
Date: 29.DEC.20	21 18:12:25						
	<u> </u>	20	DH1_Ant	1_2480			-
Spectrum Ref Level 20.0	0 dBm Offset	19.74 dB 👄	RBW 3 MHz				(B
Att Count 100/100	20 dB SWT	1 ms 👄	VBW 10 MHz	Mode Auto Swe	зер		
● 1Pk View				M1[1]		0.470	0.93 dBm
10 dBm					-	2.479	80020 GHz
0 dBm			M1				
-10 dBm							
and the second se							
-20 dBm							
-30 dBm							
-40 dBm		1			+		
-50 dBm							
-60 dBm							
-70 dBm			+		-		
-70 dBm			1001 pt:				n 8.0 MHz

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	3DH1_Ant1_2402		
Spectrum Ref Level 20.00 dBm Offset 20.01	dB 🖷 RBW 3 MHz		
Att 20 dB SWT 1 Count 100/100	ms • VBW 10 MHz Mode Auto Sweep		
IPk View	M1[1]	1.76 dBm	
10 dBm		1.76 dBm 2.40202400 GHz	
0 dBm	MI		
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm-			
-50 dBm			
-60 dBm			
-70 dBm			
CF 2.402 GHz	1001 pts	Span 8.0 MHz	
Date: 29.DEC.2021 18:14:23			
	3DH1_Ant1_2441		
Spectrum			
Att 20 dB SWT 1	dB •• RBW 3 MHz ms •• VBW 10 MHz Mode Auto Sweep		
Count 100/100 Ptk View	M1[1]	1.73 dBm	
10 dBm	MILLI	2.44097600 GHz	
	Ma		
0 dBm			
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
-60 dBm			
-70 dBm			
CF 2.441 GHz	1001 pts	Span 8.0 MHz	
Date: 29.DEC.2021 18:15:12			
	3DH1_Ant1_2480		
Spectrum			
Ref Level 20.00 dBm Offset 19.74 Att 20 dB SWT 1 Count 100/100	dB RBW 3 MHz ms VBW 10 MHz Mode Auto Sweep		
IDU/IDU IPk View	M1[1]	1.46 dBm	
10 dBm	mili	2.48002400 GHz	
	N1		
0 dBm			
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
-60 dBm			
-70 dBm			

Appendix D: Carrier frequency separation Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1	≥0.588	PASS
2DH1	Ant1	Нор	1	≥0.832	PASS
3DH1	Ant1	Нор	1	≥0.812	PASS



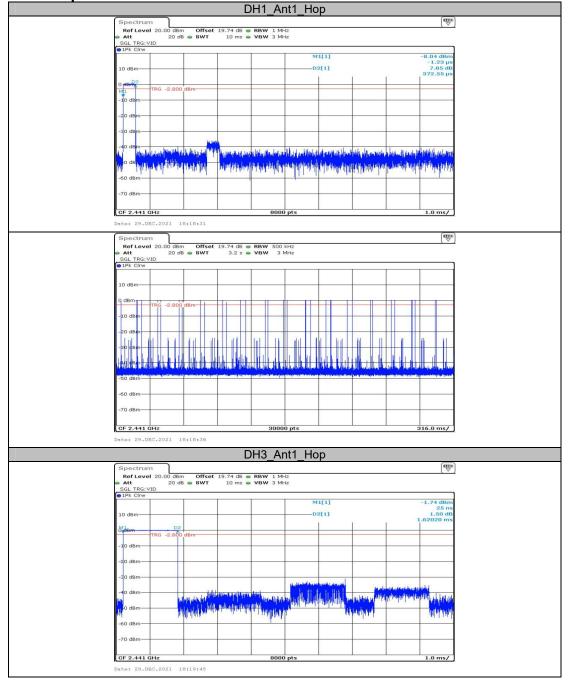
Appendix E: Time of occupancy
Test Result

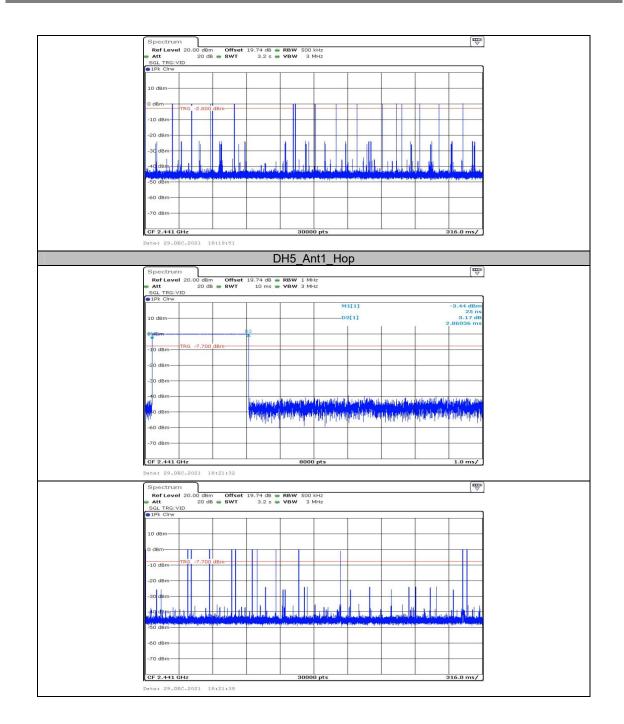
Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	320	0.118	≤0.4	PASS
DH3	Ant1	Нор	1.62	180	0.292	≤0.4	PASS
DH5	Ant1	Нор	2.86	130	0.372	≤0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Нор	1.63	170	0.277	≤0.4	PASS
2DH5	Ant1	Нор	2.87	110	0.316	≤0.4	PASS
3DH1	Ant1	Нор	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Нор	1.63	180	0.293	≤0.4	PASS
3DH5	Ant1	Нор	2.87	110	0.316	≤0.4	PASS

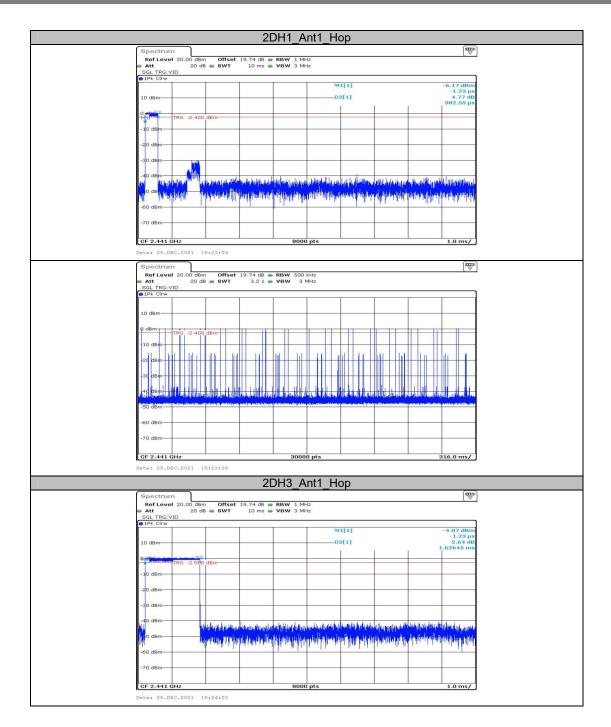
Note 1: A period time=0.4*79=31.6(S), Result=BurstWidth*Totalhops

Note 2: Totalhops=Hopping Number in 3.16s*10

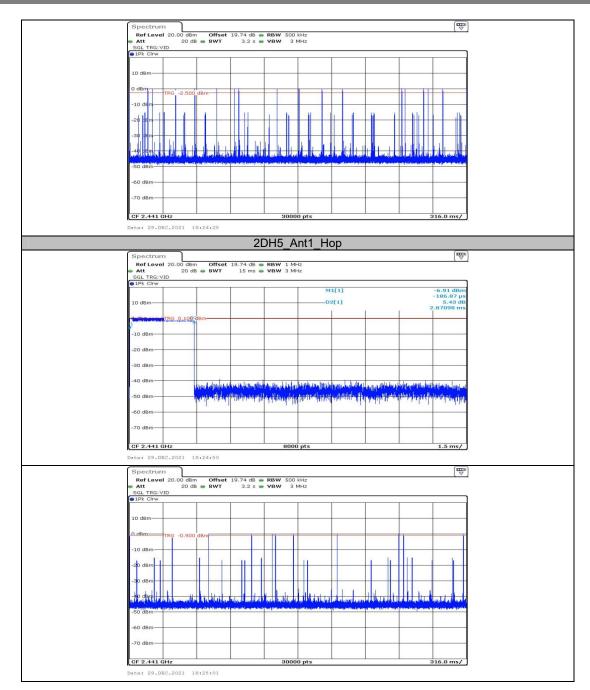
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

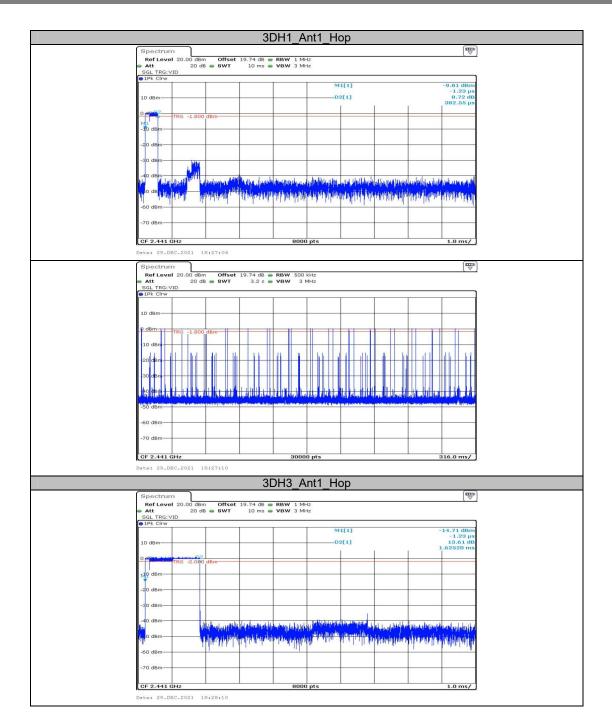




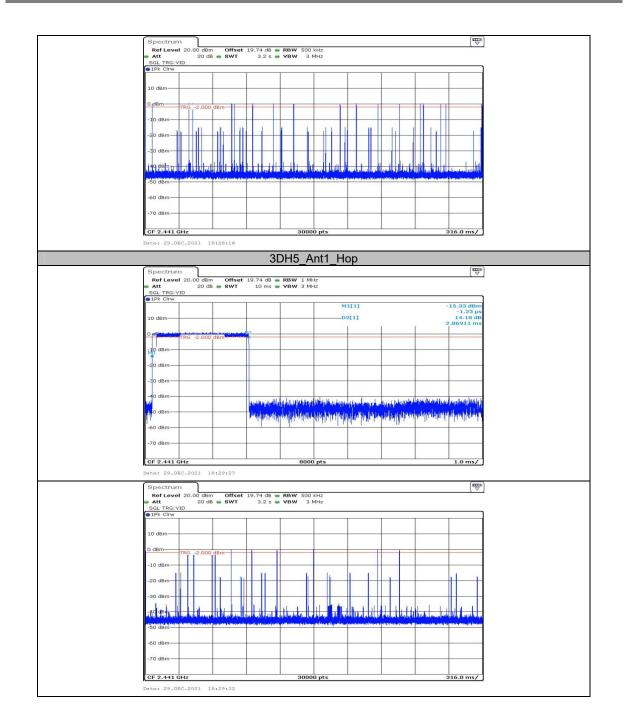


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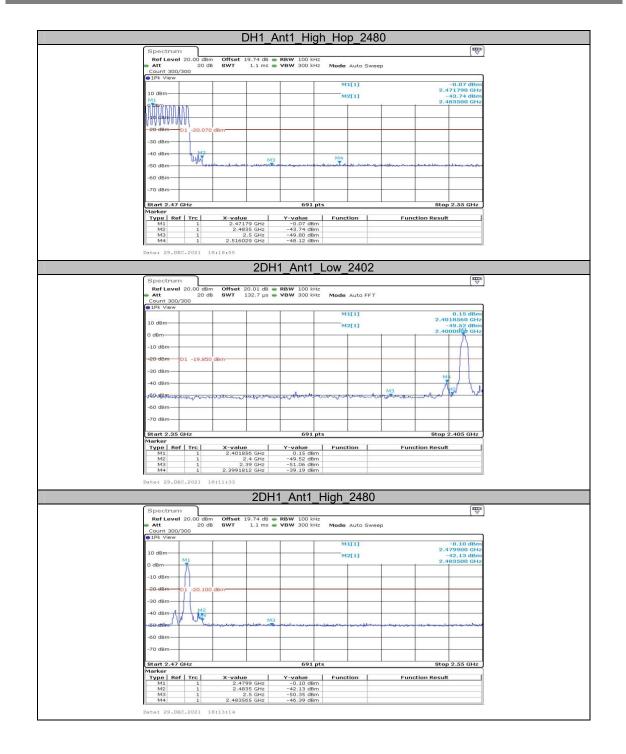
Appendix F: Number of hopping channels Test Result

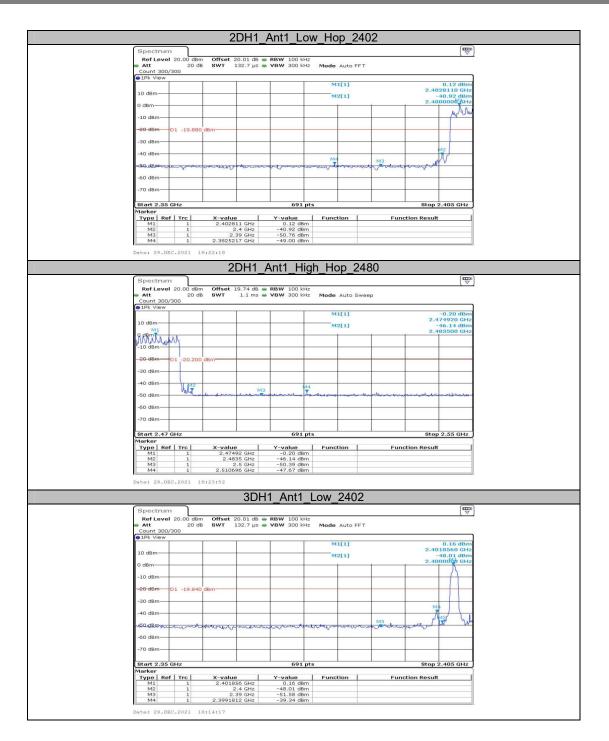
Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	≥15	PASS
2DH1	Ant1	Нор	79	≥15	PASS
3DH1	Ant1	Нор	79	≥15	PASS

Graphs	DH1_Ant1_Hop
	Spectrum Image: Constraint of the sector of th
	IPk View
	10 dBm
	-16 aparahanaa kan maanaa ka k
	-20 dBm
	40 d8m
	-50 dBm
	-60 d8m
	-70 dBm
	Start 2.4 GHz 691 pts Stop 2.4835 GHz
	Date: 29.DEC.2021 18:18:19
	2DH1_Ant1_Hop
	Ref Level 20.00 dBm Offset 20.01 dB RBW 100 kHz Att 20 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep
	PPk View
	10 dBm
	o 4800 million management and a second a second a second a
	-20 dam
	-30 dBm-
	940 dBm
	N -50 dBm
	-60 d8m
	-70 dBm
	Start 2.4 GHz 691 pts Stop 2.4835 GHz
	3DH1_Ant1_Hop
	Spectrum
	Ref Level 20.00 dBm Offset 20.01 dB RBW 100 kHz Att 20 dB SWT 1 ms ■ VBW 300 kHz Mode Auto Sweep ● 1Pk View
	10 dBm
	ันการการการการการการการการการการการการการก
	-yo qew มีสุดทุณชิญชิญตากตุกให้สี่ที่ก็ได้กลังคุณสาคาสาคร์ที่สากการหัวเริ่าๆ เป็นการสัญหาให้การที่สุดกังให้สากระการกับ
	-20 d8m-
	-30 d8m-
	140 dBm-
	-50 dBm
	-60 dBm
	-70 dBm
	Start 2.4 GHz 691 pts Stop 2.4835 GHz Date: 29.DEC.2021 18:26:53 18:26:53

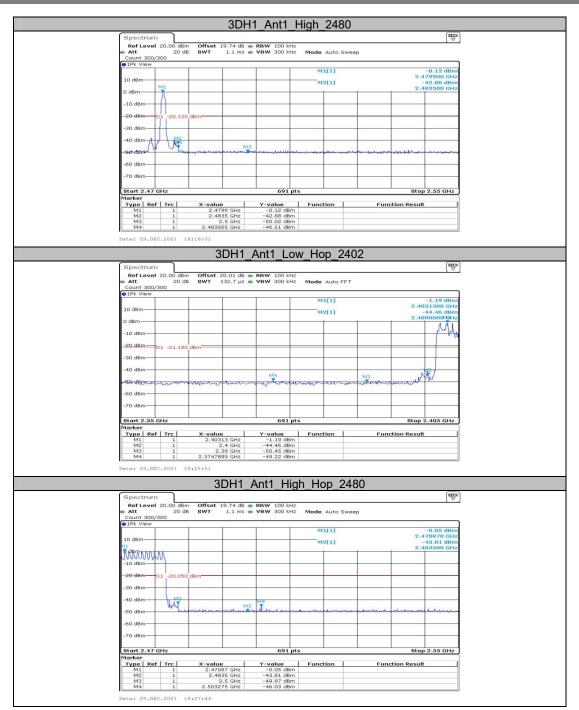
Appendix G:Band edge measurements Test Graphs

DH1 Ant1 Low 2402
Spectrum
RefLevel 20.00 dBm Offset 20.01 dB ● RBW 100 kHz ● Att 20 dB SWT 132.7 μs ● VBW 300 kHz Mode Auto FFT
Count 300/300 ● 1Pk View
10 dBm M1[1] 0.14 dBm 2.4018560 GHz
10 dBm M2[1] -49.46 dBm 0 dBm 92.4000000 GHz
-10 dBm
~20-dBm D1 -19.860_dBm
-30 d8m-
-40 dBm
VSQ.decompanies of the manufacture of the second of the se
-60 d8m
-70 dBm
Start 2.35 GHz 691 pts Stop 2.405 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 2.401856 GHz 0.14 dBm
M2 1 2.4 GHz -49.46 dBm M3 1 2.39 GHz -49.67 dBm
M4 1 2.3991812 GHz -39.23 dBm
 Date: 29.DBC.2021 18:08:39
DH1_Ant1_High_2480
Spectrum
Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300
IPk View MI[1] -0.10 dBm
10 dBm 2.479900 GHz
0 d8m 2,483500 GH2
-10 dBm
-20-d8m
-30 dBm
-40 dBm 1 M2 M3
-60 dBm
-70 dBm
Start 2.47 GHz 691 pts Stap 2.55 GHz
Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 2:4799 GHz -0.10 dBm M2 1 2:4835 GHz -41.23 dBm
M3 1 2.5 GHz -50.01 dBm M4 1 2.483565 GHz -45.90 dBm
Date: 29.DEC.2021 18:10:34
DH1_Ant1_Low_Hop_2402
Spectrum 🕎
Ref Level 20.00 dBm Offset 20.01 dB RBW 100 kHz Att 20 dB SWT 132.7 µs VBW 300 kHz Mode Auto FFT
RefLevel 20.00 dBm Offset 20.01 dB RBW 100 kHz Att 20 dB SWT 132.7 µs VBW 300 kHz Mode Auto FFT Count 300/300 FK VBW 300 kHz Mode Auto FFT
Ref Level 20.00 dBm Offset 20.01 dB RBW 100 kHz Att 20 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 300/300 ● 1Pk View ● M1[1] 0.12 dBm 10 dBm M2[1] -40.73 dBm
Ref Level 20.00 dBm Offset 20.01 dB EBW 100 kHz ● Att 20 dB SWT 132.7 μs VBW 300 kHz Count 300/300 ● 1Pk View 0.12 dBm
Net Level 20:00 dbm Offset 20:01 db EBW 100 kHz Att 20 db SWT 132.7 µs YBW 300 kHz Count 300/300 IBM III 0.12 dbm ID dBm M1[1] 2.4028110 GHz 0 dBm M2[1] -40,73 dbm 0 dBm III 2.4000000 GHz
Ref Level 20.00 dbm Offset 20.01 db EBW 100 kHz • Att 20 db SWT 132.7 µs VBW 300 kHz Mode Auto FFT Count 300/300 • IPk View • 0.12 dbm • 0.12 dbm 10 dBm • 0.12 dbm • 0.12 dbm 0 dBm • 0.12 dbm • 0.12 dbm
Nortevel 20:00 dbm Offset 20:01 db EBW 100 kHz Att 20 db SWT 132.7 µs VBW 300 kHz Mode Auto FFT Count 300/300 0.12 dbm 0.12 dbm I0 dBm M1[1] 2.402010 GHz -40.73 dbm 0 dBm 2.400000 GHz -40.73 dbm -10 dBm -40.73 dbm
Net Level 20:00 dbm Offset 20:01 db EBW 100 kHz Att 20 db SwT 132.7 µs WSW 300 kHz Count 300/300 Mage M1[1] 0.12 dbm 10 dbm M1[1] 2.4028110 GHz 10 dbm M2[1] -40.73 dbm -10 dbm M2[1] 2.400000 GHz -30 dbm 01 -19.880 dbm 10 dbm
Matter 20.0 dBm Offset 20.01 dB e RBW 100 kHz Att 20.dB SWT 132.7 µs VBW 300 kHz Mode Auto FFT Count 300/300 B/FK View M1[1] 0.12 dBm 0 dBm M2[1] -40.73 dBm 0 dBm N2[1] -40.73 dBm -10 dBm 2.4000000 kHz -30 dBm -40.73 dBm -10 dBm -40.73 dBm -30 dBm -40.73 dBm
Net Level 20:00 dBm Offset 20:01 dB EBW 100 kHz Att 20 dB SWT 132.7 µs WSW 300 kHz Mode Auto FFT Count 300/300 IIII 2.4028110 GHz 0.12 dbm 10 dBm N12[1] -40.73 dbm 2.4028110 GHz 0 dBm N12[1] -40.73 dbm 2.400000CHz -10 dBm N12[1] -40.73 dbm 2.400000CHz -30 dBm -40 dBm -40 dBm -40 dBm -40 dBm -60 dBm -40 dBm -40 dBm -40 dBm -40 dBm
Net Level 20:00 dbm Offset 20:01 db eBW 100 kHz Att 20 db SWT 132.7 µs VBW 300 kHz Mode Auto FFT Count 300/300 0.12 dbm 0.12 dbm 0.12 dbm 10 dbm N4111 2.4028110 GHz -40.73 dbm -0 dbm N2[1] -40.73 dbm -40.73 dbm -10 dbm N2[1] 2.4028110 GHz -40.73 dbm -30 dbm N2[1] -40.73 dbm -40.73 dbm -30 dbm N2[1] 2.400000 Hz/2 -40.73 dbm -10 dbm N2[1] -40.73 dbm -40.73 dbm -30 dbm -40 dbm -40.73 dbm -40.73 dbm -20 dbm -10 dbm -40.73 dbm -40.73 dbm -30 dbm -40.74 dbm -40.74 dbm -40.74 dbm -30 dbm -40.74 dbm -40.74 dbm -40.74 dbm -50 dbm -40.74 dbm -40.74 dbm -40.74 dbm -70 dbm -40.74 dbm -40.74 dbm -40.74 dbm
Ref Level 20:00 dBm Offset 20:01 dB eBW 100 kHz Mode Auto FFT Count 300/300 BWT 132.7 µs eVBW 300 kHz Mode Auto FFT 0 dBm
Ref Level 20.00 dBm Of BW OT set 20.01 dB @ EBW 100 kHz Mode Auto FFT Count 300/300 © IPK View M1[1] 0.12 dBm 10 dBm Nt2[1] -40.73 dBm 0 dBm Nt2[1] -40.73 dBm -20 dBm 01 -19.880 dBm Nt2[1] -30 dBm -40 dBm -40 -40 dBm -40 dBm -40 -70 dBm -40 -40 -70 d
Ref Level 20:00 dbm Offset 20:01 db e BBW 100 kH2 Att 20 db SWT 132:7 µs VBW 300 kH2 Image: Start 2:0 db SWT 132.7 µs Image: Start 2:0 db SWT 14





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***** END OF REPORT *****