



FCC PART 15.247 TEST REPORT

For

Zeeva International Limited

Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China

FCC ID: 2ADM5-GA-0127

Report Type: Original Report		Product Type: BLUETOOTH TRANSMITTER
Report Number:	RSZ210107837-0	00
Report Date:	2021-01-22	
	Jacob Kong	Jours Kong
Reviewed By:	RF Engineer	Janes 1
Prepared By:	6/F., West Wing	3320018 3320008

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Report No.: RSZ210107837-00

Bay Area Compliance Laboratories Corp. (Shenzhen)

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GENERAL INFORMATION

Product	BLUETOOTH TRANSMITTER	
Tested Model	GA-0127	
UPC Number	1922343450238	
SKU Number	3775286	
Frequency Range	Bluetooth: 2402~2480MHz	
Maximum conducted Peak output power	Bluetooth: -5.70dBm	
Modulation Technique	GFSK, π/4-DQPSK, 8DPSK	
Antenna Specification*	-0.68 dBi (It is provided by the applicant)	
Voltage Range	DC3.7V from battery	
Date of Test	2021-01-12 to 2021-01-18	
Sample number	RSZ210107837-RF-S1(Assigned by BACL, Shenzhen)	
Received date	2021-01-07	
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 Commissions 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.

For Radiated Emissions testing, please refer to DA 00-705 Released March 30, 2000, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		±5%
RF Output Power	with Power meter	±0.73dB
RF conducted test with spectrum		±1.6dB
AC Power Lines Conducted Emissions		±1.95dB
Emissions,	Below 1GHz	±4.75dB
Radiated Above 1GHz		$\pm 4.88 \mathrm{dB}$
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 Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, 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.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

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 10*. 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
BULL	Socket	GN-212	A37209315081183
vonino	Adapter	RD0501000- USBA-18MG	Unknown
SENWA	Mobile Phone	D65	D6520201000332
HUAWEI	Phone	HONOR V10	Unknown

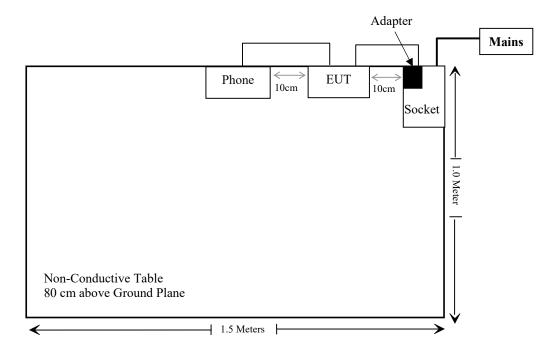
External I/O Cable

Cable Description	Length (m)	From Port	То
Unshielded un-detachable AC cable	1.2	Socket	Mains
UnShielded detachable USB cable	0.2	Adapter	EUT
Unshielded un-detachable Audio cable	0.05	Phone	EUT

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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), §1.1307 (b) (1)& §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliance
§15.247(a)(1)	20 dB Emission Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test Complian	
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test Compli	
§15.247(b)(1)	Peak Output Power Measurement Complian	
§15.247(d)	Band edges Compliance	

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Condu	cted Emissions	Test		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1- 0720-504504	2020/11/29	2021/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
	Radia	ated Emission T	est		
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2020/12/22	2021/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 1	F-03-EM236	2020/11/29	2021/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2020/11/29	2021/11/28
Sunol Sciences	Horn Antenna	DRH-118	A052604	2020/12/22	2021/12/21
Insulted Wire Inc.	RF Cable	SPS-2503- 3150	02222010	2020/11/29	2021/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28
SNSD	Band Reject filter	BSF2402- 2480MN- 0898-001	2.4G filter	2020/04/20	2021/04/20
Ducommun Technolagies	Horn antenna	ARH-4223- 02	1007726-02 1304	2020/12/06	2023/12/05
	RF Conducted Test				
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2020/08/04	2021/08/03
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2020/08/04	2021/08/03
Unknown	RF Cable	Unknown	2301 276	2020/11/29	2021/11/28

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC Part 15.247

FCC§15.247 (i), §1.1307 (b) (1) &§2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f}(GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

For worst case:

Frequency	Maximum Tune-up power		Calculated Distance	Calculated	Threshold	SAR Test
(MHz)	(dBm)	(mW)	(mm)	Value	(1-g SAR)	Exclusion
2480	-5.5	0.28	5	0.1	3.0	Yes

Result: No Standalone SAR test is required

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 arrangement which was permanently attached and the antenna gain is -0.68dBi, fulfill the requirement of this section. Please refer to the EUT photos.

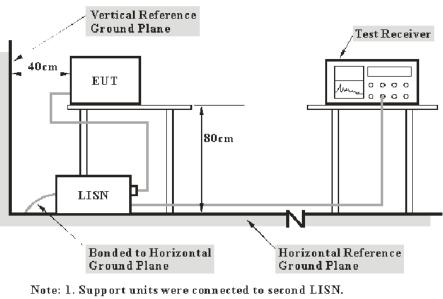
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Support units were connected to second LISN.
 Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

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.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

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

Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

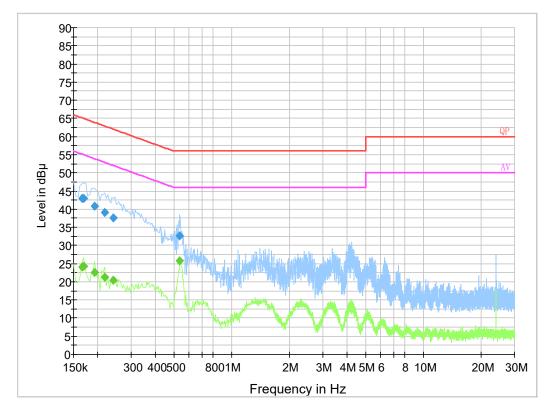
Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-01-18.

EUT operation mode: Charging & transmitting

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AC 120V/60 Hz, Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.165500	42.9	9.000	L1	19.9	22.3	65.2
0.169500	42.9	9.000	L1	19.9	22.1	65.0
0.193500	40.9	9.000	L1	19.8	23.0	63.9
0.217500	39.0	9.000	L1	19.8	23.9	62.9
0.241500	37.6	9.000	L1	19.8	24.4	62.0
0.537930	32.7	9.000	L1	19.8	23.3	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.165500	24.0	9.000	L1	19.9	31.2	55.2
0.169500	24.3	9.000	L1	19.9	30.7	55.0
0.193500	22.5	9.000	L1	19.8	31.4	53.9
0.217500	21.2	9.000	L1	19.8	31.7	52.9
0.241500	20.5	9.000	L1	19.8	31.5	52.0
0.537930	25.7	9.000	L1	19.8	20.3	46.0

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90₁ 85 80 75 70 65 60 55 Level in dBµ 50 45 40 35 30-25 20 15 10 5-0+ 150k 300 400500 8001M 2M 3M 4M 5M 6 8 10M 20M 30M Frequency in Hz

AC 120V/60 Hz, Neutral

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.165500	39.8	9.000	Ν	19.8	25.4	65.2
0.165500	39.7	9.000	Ν	19.8	25.5	65.2
0.185500	38.0	9.000	Ν	19.8	26.2	64.2
0.213500	35.9	9.000	Ν	19.8	27.2	63.1
0.541870	40.0	9.000	N	19.8	16.0	56.0
0.542010	40.0	9.000	Ν	19.8	16.0	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.390000	24.7	9.000	N	19.8	23.4	48.1
0.534000	33.5	9.000	N	19.8	12.5	46.0
0.542000	33.7	9.000	N	19.8	12.3	46.0
0.690000	22.2	9.000	N	19.8	23.8	46.0
1.294000	22.3	9.000	N	19.8	23.7	46.0
1.430000	22.9	9.000	Ν	19.8	23.1	46.0

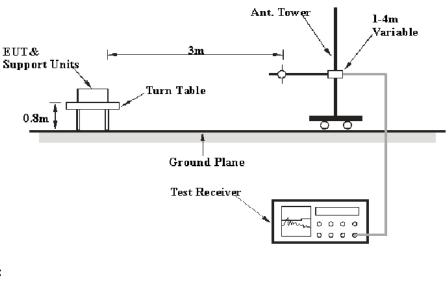
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

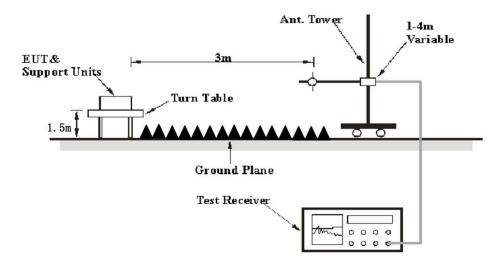
FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



Above 1GHz:



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.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, according to the DA 00-705 Released March 30, 2000, 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
Above 1 GHz	1 MHz	3 MHz	/	РК
Above I 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.

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

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

Margin = Limit – Corrected Amplitude

Test Data

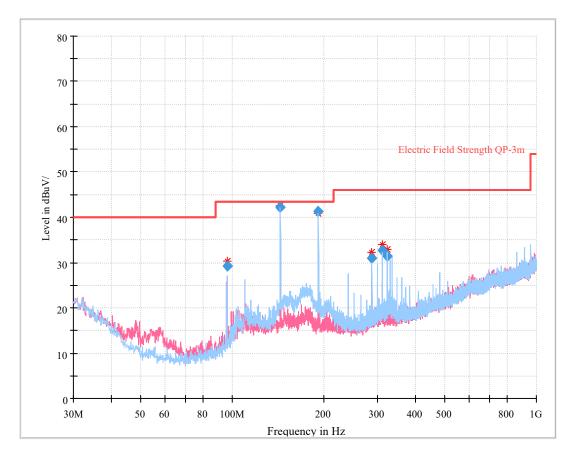
Environmental Conditions

Temperature:	24~30.4 °C
Relative Humidity:	52~58 %
ATM Pressure:	101.1~101.2 kPa

The testing was performed by Kilroy Deng on 2021-01-18 for below 1GHz and Alan He on 20201-01-14 for above 1GHz.

EUT operation mode: Transmitting

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

Final_Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
96.012500	29.14	43.50	14.36	195.0	Н	164.0	-14.7
143.988375	42.12	43.50	1.38	189.0	Н	56.0	-11.1
191.995000	41.35	43.50	2.15	125.0	Н	191.0	-11.7
287.963250	31.01	46.00	14.99	105.0	Н	152.0	-9.5
311.996250	32.60	46.00	13.40	100.0	Н	167.0	-9.0
324.025000	31.44	46.00	14.56	104.0	Н	171.0	-8.8

1 GHz - 25 GHz:

Б	Re	eceiver	T (11)	Rx An	tenna	Corrected	Corrected	T • •/		
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)		Factor	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
	Low Channel (2402 MHz)									
2372.23	28.97	PK	336	2.5	Н	31.87	60.84	74	13.16	
2372.23	14.56	Ave.	336	2.5	Н	31.87	46.43	54	7.57	
2491.72	29.30	РК	25	1.5	Н	32.13	61.43	74	12.57	
2491.72	14.85	Ave.	25	1.5	Н	32.13	46.98	54	7.02	
4804.00	47.52	РК	251	1.9	Н	6.28	53.80	74	20.20	
4804.00	37.36	Ave.	251	1.9	Н	6.28	43.64	54	10.36	
7206.00	43.36	РК	37	1.8	Н	11.93	55.29	74	18.71	
7206.00	31.45	Ave.	37	1.8	Н	11.93	43.38	54	10.62	
			Middle C	hannel	(2441 M	fHz)				
4882.00	47.94	PK	336	1.4	Н	6.76	54.70	74	19.30	
4882.00	38.79	Ave.	336	1.4	Н	6.76	45.55	54	8.45	
7323.00	43.42	PK	206	1.4	Н	11.66	55.08	74	18.92	
7323.00	31.54	Ave.	206	1.4	Н	11.66	43.20	54	10.80	
			High Ch	nannel (2	2480 MI	Hz)				
2388.44	28.21	PK	34	2.4	Н	31.87	60.08	74	13.92	
2388.44	13.74	Ave.	34	2.4	Н	31.87	45.61	54	8.39	
2484.21	28.11	РК	333	1.4	Н	32.13	60.24	74	13.76	
2484.21	13.62	Ave.	333	1.4	Н	32.13	45.75	54	8.25	
4960.00	43.54	РК	327	1.4	Н	6.80	50.34	74	23.66	
4960.00	30.21	Ave.	327	1.4	Н	6.80	37.01	54	16.99	
7440.00	43.84	РК	65	2.2	Н	12.39	56.23	74	17.77	
7440.00	32.48	Ave.	65	2.2	Н	12.39	44.87	54	9.13	

Note:

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

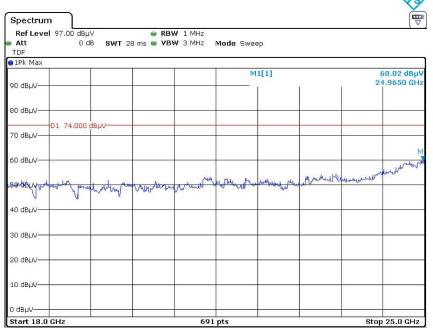
Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude The other spurious emission which is 20dB to the limit was not recorded.

~

Pre-scan with High channel Peak Horizontal

							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Spectrum							Ē
Ref Level	97.00 di	вµV 😐 🖷	BW 1 MHz				( .
Att	C	ldB SWT 68 ms 🖷 V	BW 3 MHz Mod	le Sweep			
TDF 1Pk Max							
ALC: UNK				M3[1]			60.60 dBµ
90 dBµV						1	15.3060 GH
				M1[1]			49.06 dBµ'
30 dBµV				1	ар.	£	4.9600 GH
	D1 74.00	0 dBµV					
70 dBµV						M3	
50 dBµV						•	
		N	12 Lawrence	athematic by	where man many	howard	maringly p
50 dBµV		M1 menter a presenteder	Frank Annual				U.
	Autom	meralline					
to george						2	
Wend							
30 dBµV						12	81
20 dBµV							
10 dBµV							
) dBµV							
Start 1.0 G	Hz		691 pts		1	Sto	p 18.0 GHz
1arker							
Type   Ref	Trc	X-value	Y-value	Function	Fur	nction Resu	lt
M1	1	4.96 GHz	49.06 dBµV				
M2	1	7.44 GHz	53.98 dBµV				
MЗ	1	15.306 GHz	60.60 dBµV				

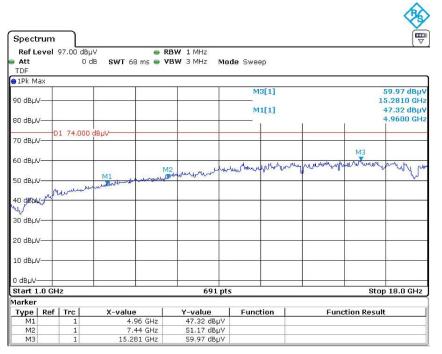
Date: 14.JAN.2021 13:20:07



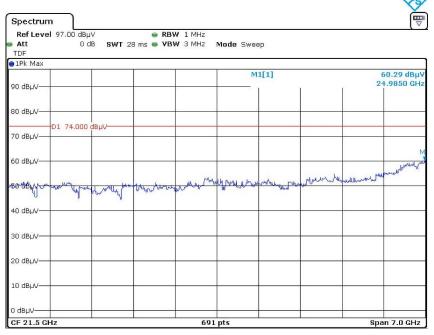
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#### Vertical



Date: 14.JAN.2021 13:35:49



Date: 14.JAN.2021 14:27:37

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#### Average Horizontal

Spectrum				R
TDF	● RBW 3 WT4s● VBW		еер	<b>.</b>
91Pk Clrw 90 dBµV			M1[1]	37.01 dBµ 4.9599710 GH
30 dBµV				
70 dBµV				
0 dBµV				
60 dBµV				
ю dBµV		¥		
20 dBµV				
0 dBµV				
) авил				

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Spectrum		RBW 1	641-				U T
Ref Level 97.0 Att TDF		4 s • VBW 1		le Sweep			
1Pk Max	.C)						
90 dBµV				M1[1]	1	1	44.87 dBµ 7.4400000 GH
80 dBµV							
70 dBµV							
60 dBµV							
50 dBµV	4.000 dBµV		M				
10 dBµV							
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FCC Part 15.247

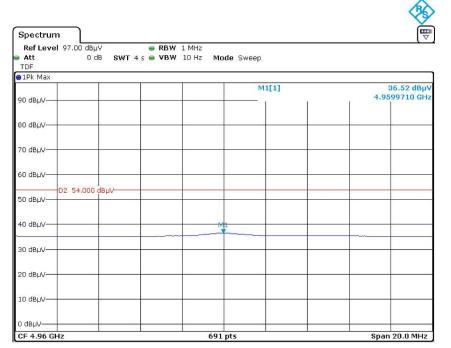
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#### Report No.: RSZ210107837-00

				8
Spectrum				Ē
RefLevel 97.00 dBμV ● Att 0 dB SWT 4 s TDF	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> <li>Mode</li> </ul>	Sweep		
●1Pk Max				
90 dBµV		M1[1]	1 Ye	47.04 dBμV 24.9705860 GHz
80 dBµV				
70 dBµV				
60 dBµV			-0	
D2 54.000 dBµV			M1	
40 dBµV				
30 dBµV				
20 dBµV				
10 dBµV			10	
0 dBµV				
CF 24.965 GHz	691 pts			Span 20.0 MHz

Date: 14.JAN.2021 14:21:33





Date: 14.JAN.2021 13:40:17

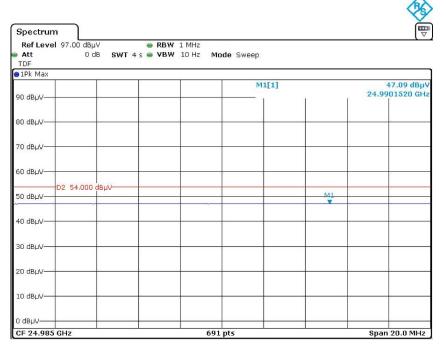
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		8
Spectrum		
	<ul> <li>RBW 1 MHz</li> <li>VBW 10 Hz</li> <li>Mode Sweep</li> </ul>	
●1Pk Max		
90 dBµV	M1[1]	40.45 dBµV 7.4400000 GHz
80 dBµV		
70 dBµV		
60 dBµV		
D2 54.000 dBµV		
40 dBµV	M1	
30 dBµV		
20 dBµV		
10 dBµV		
0 dBµV		
CF 7.44 GHz	691 pts	Span 20.0 MHz

Date: 14.JAN.2021 13:45:18



Date: 14.JAN.2021 14:34:16

FCC Part 15.247

#### 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**

- 1. Set the EUT in transmitting mode, maxhold the channel.
- 2. Set the adjacent channel of the EUT and maxhold another trace.
- 3. Measure the channel separation.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-01-12.

EUT operation mode: Transmitting

#### FCC §15.247(a) (1) – 20 dB EMISSION 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**

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

#### Test Data

#### **Environmental Conditions**

Temperature:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-01-12.

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**

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

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-01-12.

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**

- 1. The EUT was worked in channel hopping.
- 2. Set the RBW to: 1MHz.
- 3. Set the VBW  $\geq 3 \times RBW$ .
- 4. Set the span to 0Hz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Recorded the time of single pulses

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-01-12.

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:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-01-12.

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**

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. 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.
- 3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. 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.
- 5. Repeat above procedures until all measured frequencies were complete.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C	
<b>Relative Humidity:</b>	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Bravos Zhao on 2021-01-12.

EUT operation mode: Transmitting

#### APPENDIX

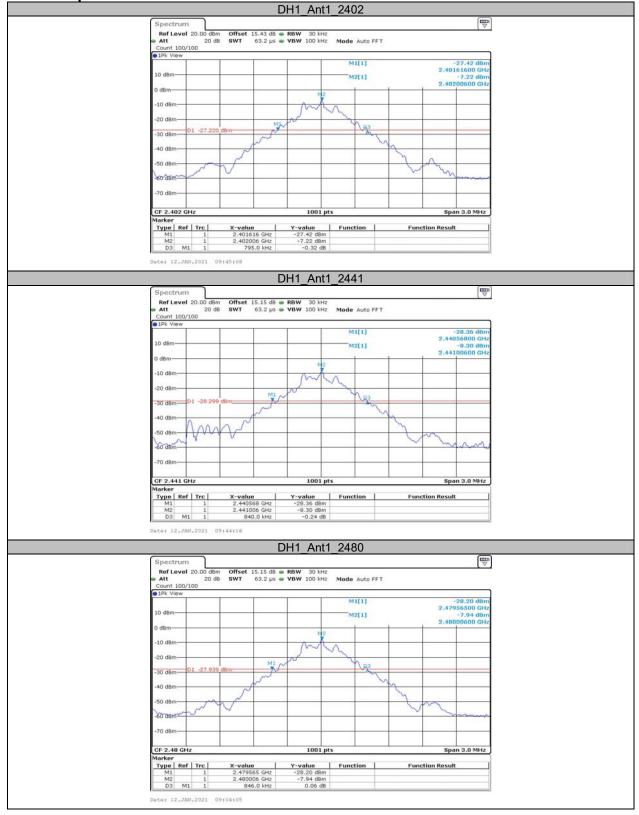
## AppendixA: 20dBEmission Bandwidth Test Result

#### TestMode Antenna Channel 20db EBW[MHz] Limit[MHz] Verdict 2402 0.795 PASS ----DH1 Ant1 2441 0.840 PASS ----PASS 2480 0.846 ----2402 1.209 PASS ---2DH1 Ant1 1.209 PASS 2441 ----PASS 2480 1.209 ----2402 1.203 PASS ----3DH1 Ant1 2441 1.206 PASS ----2480 1.206 PASS ---

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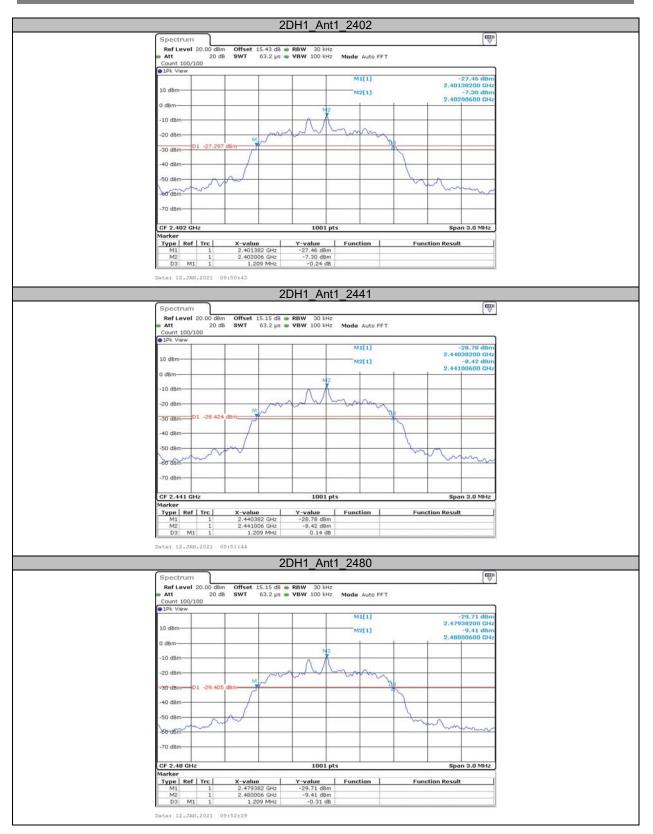
#### Report No.: RSZ210107837-00

#### **Test Graphs**

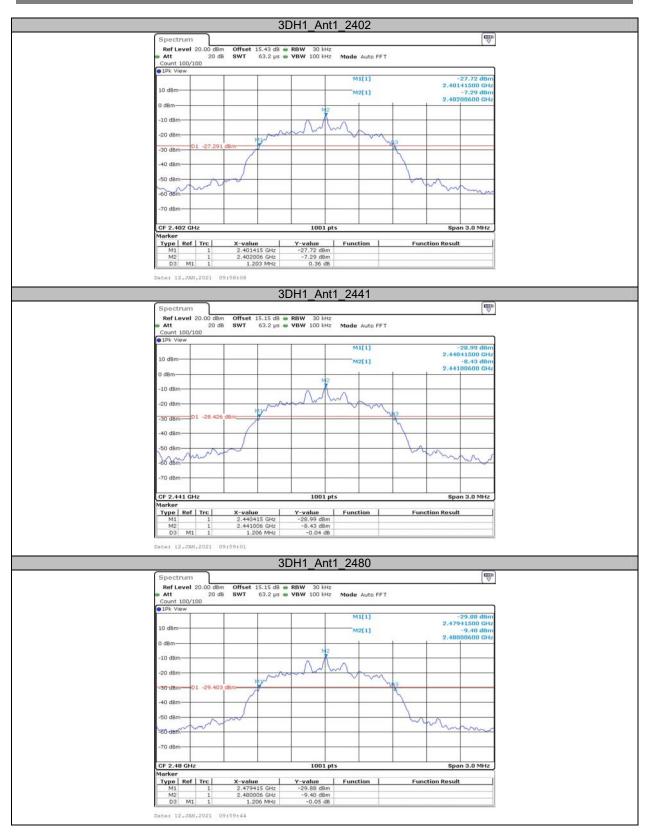


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#### Report No.: RSZ210107837-00



#### Report No.: RSZ210107837-00



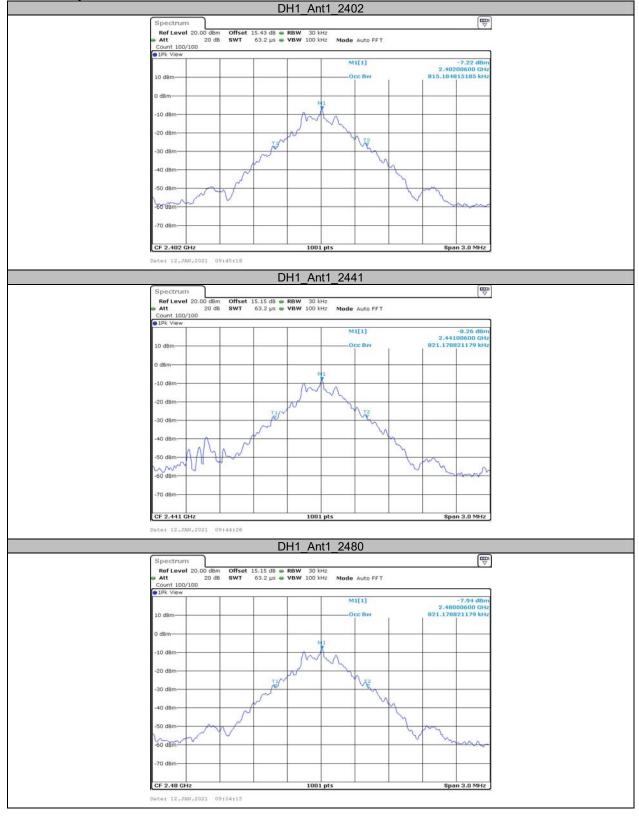
# Appendix B: Occupied Channel Bandwidth

			-		
TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
DH1 Ant1	2402	0.815		PASS	
	2441	0.821		PASS	
		2480	0.821		PASS
2DH1 Ant1	2402	1.163		PASS	
	2441	1.163		PASS	
		2480	1.163		PASS
3DH1 Ant1		2402	1.148		PASS
	Ant1	2441	1.145		PASS
		2480	1.145		PASS

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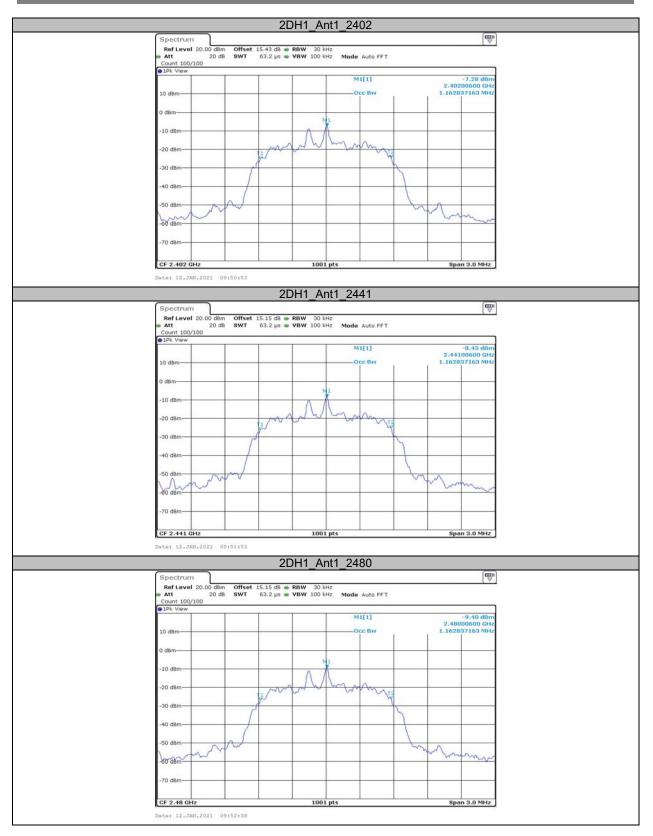
#### Report No.: RSZ210107837-00

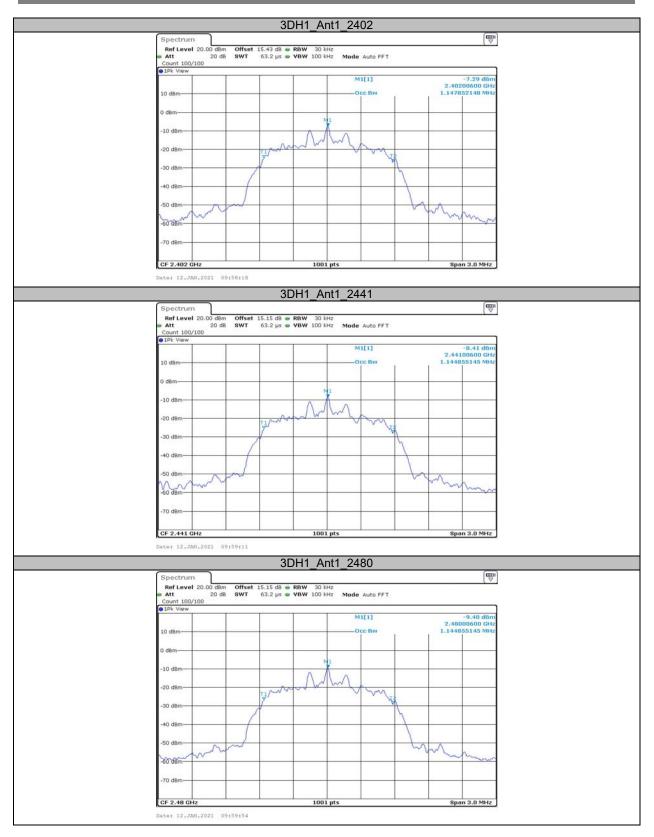
#### **Test Graphs**



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# Appendix C: Maximum conducted Peak output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	-6.88	<=20.97	PASS
DH1	Ant1	2441	-7.96	<=20.97	PASS
		2480	-6.73	<=20.97	PASS
		2402	-6.25	<=20.97	PASS
2DH1	Ant1	2441	-7.35	<=20.97	PASS
		2480	-8.32	<=20.97	PASS
		2402	-5.70	<=20.97	PASS
3DH1	Ant1	2441	-6.84	<=20.97	PASS
		2480	-7.76	<=20.97	PASS

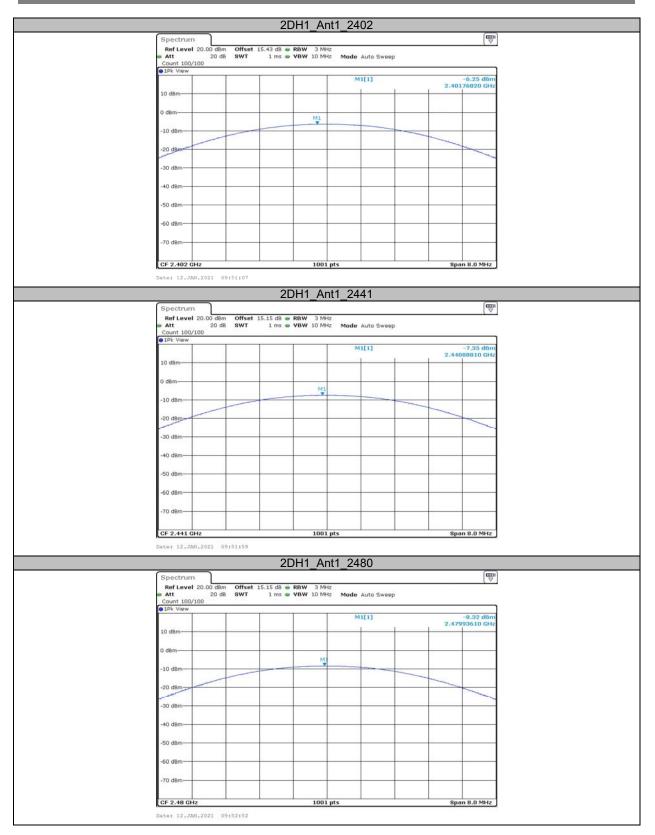
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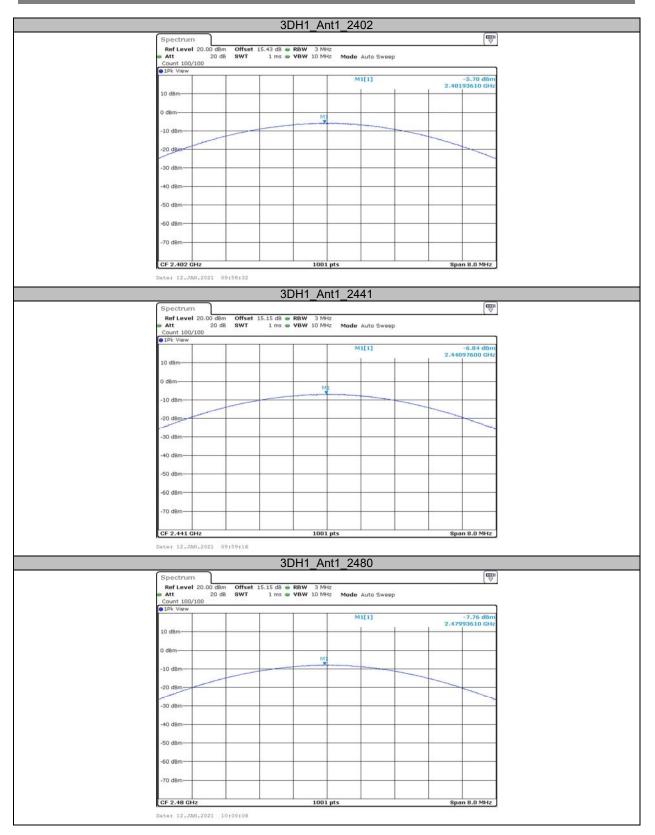
### **Test Graphs**

Image: product of the second of t		
<form></form>		
DH1_Ant1_2441         Implementation of them 11:11:16 die # RBW 2006         Implementation of them 11:11:16 die # RBW 2006 <td co<="" td=""><td>DH1_Ant1_2441         Spectrum         Spectrum         Spectrum         Militär die #RBW 3 MM2         Mode Auto Sweep         Site View         Militär die #RBW 3 MM2         Mode Auto Sweep         Militär die #RBW 3 MM2         Militär die</td></td>	<td>DH1_Ant1_2441         Spectrum         Spectrum         Spectrum         Militär die #RBW 3 MM2         Mode Auto Sweep         Site View         Militär die #RBW 3 MM2         Mode Auto Sweep         Militär die #RBW 3 MM2         Militär die</td>	DH1_Ant1_2441         Spectrum         Spectrum         Spectrum         Militär die #RBW 3 MM2         Mode Auto Sweep         Site View         Militär die #RBW 3 MM2         Mode Auto Sweep         Militär die #RBW 3 MM2         Militär die
	Spectrum       Image: spectrum         10 dbm       0 dbm         10 dbm       1 ms         0 dbm       1 ms         10 dbm       1 ms	
	ippertunit       Offset 15.15.db # BRW 3 Mdt         20 db WY       1 ms # VBW 10 Mdt Mode Auto Sweep         20 db WY       1 ms # VBW 10 Mdt Mode Auto Sweep         10 dbm	
ref Lavel 20.0 m Offset 15.15 db = RBW 30M2 Mode Auto Sweep To dem 10 dbm 10 dbm	Ref Levels 20.00 dm       Offset 15.15 db = RBW 3 Met         Court 100/100         Odm       0 dm         0 dbm       0 dbm	
Control 100 100 10 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cont 100/10 10 dBm	
10 dlm       -7.96 dlm         0 dlm       -10 dlm         -10 dlm       -10 dlm         -20 dlm       -10 dlm         -30 dlm       -10 dlm         -0 dlm       -10 dlm         -20 dlm       -20 dlm         -20 dlm       -20 dlm         -20 dlm       -20 dlm         -10 dlm       -20 dlm         -20 dlm       -20 dlm         -2	0 dm       M1[1]       2.44095200 GHz         0 dm       0       0         10	
la dem o	10 dbm -10 dbm -10 dbm -20	
o dan o o o o o o o o o o o o o o o o o o o	0 dbm       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	
-10 dm	10 dem	
10 dam       0 dam <t< td=""><td>-10 dem       -10 dem</td></t<>	-10 dem	
20 dBm       0 dBm       0 dBm       0 dBm         -00 dBm       0 dBm       0 dBm       0 dBm         0 dBm       0 dBm       0 dBm       0 dBm       0 dBm         0 dBm       0 dBm       0 dBm       0 dBm       0 dBm         -00 dBm       0 dBm       0 dBm       0 dBm       0 dBm         -00 dBm       0 dBm       0 dBm       0 dBm       0 dBm       0 dBm         -00 dBm       0 dBm       0 dBm       0 dBm       0 dBm       0 dBm       0 dBm         -00 dBm       0 dBm         -00 dBm       0 dBm       0 dBm       0 dBm       0	20 dBm -30 dBm -30 dBm -40 dBm -60 dBm -50 dBm -50 dBm -50 dBm -50 dBm -70	
-30 dBm       -10 dBm	and Bm + + + + + + + + + + + + + + + + + +	
40 dBm	40 dBm	
40 dBm	40 dBm	
so dam -0 dam	so dem -60 dem -70	
-60 dBm       -0 dBm       Span B.0 MHz         DEt 12.4304.2021 09:40150       DEt Ant1_2480       EC       EC       -0 dBm	-60 dBm	
Jondam	.70 dBm	
Jondam	.70 dBm	
CF 2.41 GHz 10940150 DET 12.7304.2021 0940150 DET 12.7304.2021 0940150 DET 15.15 dB RBW 3 MHz Ref Level 20.00 dBm Offset 15.15 dB RBW 3 MHz 0 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 100/100 0 dBm 0	CF2.441 GHz     1001 pts     Spon B.0 MHz       Date: 12.JNN.2021 09:40:50     DH1 Ant1 24800     Image: Control of Section 15.15 dB @ RBW 3 MHz       Ref Level 20.00 dBm     Offset 15.15 dB @ RBW 3 MHz     Image: Control of Section 100/100       Image: Control of Section 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of Section 100/100       Image: Control of Berlin 100/100     Image: Control of Section 100/100     Image: Control of	
DET 12.3281.2021 09:4015         OPEN COLSPANE         Spectrum       COLSPANE         Ref Level 20.00 dBm       Offset 15.15.05 dB RBW 3 MHz         M colspan="2">Colspan="2"       Colspan="2"	Dete: 12.73N1.2021 09140190	
DET 12.3281.2021 09:4015         OPEN COLSPANE         Spectrum       COLSPANE         Ref Level 20.00 dBm       Offset 15.15.05 dB RBW 3 MHz         M colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"       Colspan="2"	Deter 12.JWH.2021 09:40150	
DH1 Ant1_2480         Spectrum         Ref Level 20.00 dBm Offset 15.15 dB @ RBW 3 MHz att 20 dB & BWT 1 ms @ VBW 10 MHz Mode Auto Sweep Count 100/100         0 fPk. View         0 dBm       0 dBm         10 dBm       M1[1]         -0 dBm       M1         -0 dBm       M1         -0 dBm	DH1_Ant1_2480         Spectrum         Ref Level 20.00 dbm Offset 15.15 db @ RBW 3 MHz         Att 20 db SWT 1 ms @ VBW 10 MHz Mode Auto Sweep         Count 100/100         @ IPk View         0 dbm       M1[1]       -6.73 dBm         0 dbm       M1[1]       2.47968010 GHz         -10 dbm       M1       M1         -30 dBm       M1       M1	
Spectrum         The second secon	Spectrum         Image: Spectrum           Ref Level 20.00 dBm         Offset 15.15 dB         RBW 3 MHz           Att         20 dB         SWT         1 ms         Work 10 MHz         Mode Auto Sweep           Count 100/100         Image: Spectrum         M1[1]         -6.73 dBm           0 dBm         M1[1]         -6.73 dBm           -0 dBm         M1         -0.73 dBm           -10 dBm         M1         -0.73 dBm           -30 dBm         M1         -0.73 dBm	
Spectrum         The second secon	Spectrum         Image: Spectrum           Ref Level 20.00 dBm         Offset 15.15 dB @ RBW 3 MHz           Att         20 dB           SWVT         1 ms @ VBW 10 MHz           Count 100/100         Image: Spectrum           Ø JPk View         M1[1]           0 dBm         M1[1]           -0 dBm         M1           -0 dBm         M1           -30 dBm         Image: Spectrum	
Ref Level 20.00 dm       Offset 15.15 db       # RBW 3 MHz; Wade Auto Sweep         Count 100/100       91Pk View       -6.73 dBm         0 dBm       0 dBm       -6.73 dBm         -0 dBm       0 dBm       -6.73 dBm         -0 dBm       -0.70 dBm       -0.70 dBm         -0 dBm       0 dBm       -0.70 dBm         -0 dBm       -0.70 dBm       -0.70 dBm         -0.70 dBm       -0.70 dBm       -0.70 dBm         -0.70 dBm       -0.70 dBm       -0.70 dBm         -0.70 dBm       -0.70 dBm       -0.70 dBm	Ref Level 20.00 dBm       Offset 15.15 dB + RBW 3 MHz         Att       20 dB       SWT       1 ms + WBW 10 MHz       Mode Auto Sweep         Count 100/100       91Pk View       M1[1]       -6.73 dBm         10 dBm       0 dBm       M1       -10 dBm         -10 dBm       -0.73 dBm       -0.73 dBm         -30 dBm       -0.73 dBm       -0.73 dBm	
Count 100/100       I 1k View       I 0 dBm       0 dBm       -10 dBm       -20 dBm       -30 dBm       -50 dBm	Count 100/100	
10 d8m     M1[1]     -6.73 dbm       0 d8m     2.47988810 GHz       0 d8m     M1       -10 d8m     M1       -20 d8m     -       -30 d8m     -       -40 d8m     -       -50 d8m     -	0 dBm     M1[1]     -6.73 dBm       0 dBm     2.47988010 GHz       -10 dBm     M1       -20 dBm     -30 dBm	
10 dBm	10 dBm 611 -10 dBm 611 -20 dBm30 dBm	
0 dBm M1 -10 dBm	0 dBm M1 -10 dBm	
-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm	-10 dBm	
-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm	-10 dBm -20 dBm -30 dBm	
-20 dBm -30 dBm -40 dBm -50 dBm -50 dBm	-20 dBm	
-30 dBm	-30 dBm-	
-40 dBm		
-40 dBm		
-50 dBm	-40 dBm	
-60 dBm		
-60 dBm	-50 dBm-	
-70 dBm-	-60 dBm-	
	-70 dBm-	
CF 2.48 GHz 1001 pts Span 8.0 MHz	CF 2.48 GHz 1001 pts Span 8.0 MHz	

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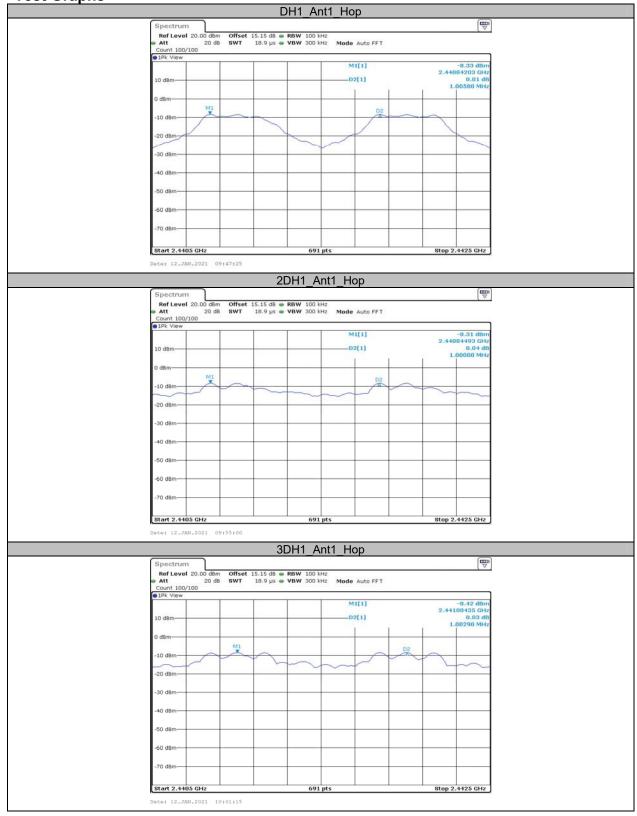


# Appendix D: Carrier frequency separation Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.006	>=0.560	PASS
2DH1	Ant1	Нор	1	>=0.806	PASS
3DH1	Ant1	Нор	1.003	>=0.804	PASS

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## Test Graphs



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## Appendix E: Time of occupancy Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.42	330	0.138	<=0.4	PASS
DH3	Ant1	Нор	1.67	140	0.233	<=0.4	PASS
DH5	Ant1	Нор	2.91	130	0.378	<=0.4	PASS
2DH1	Ant1	Нор	0.43	330	0.141	<=0.4	PASS
2DH3	Ant1	Нор	1.67	130	0.217	<=0.4	PASS
2DH5	Ant1	Нор	2.91	90	0.262	<=0.4	PASS
3DH1	Ant1	Нор	0.43	330	0.141	<=0.4	PASS
3DH3	Ant1	Нор	1.67	150	0.251	<=0.4	PASS
3DH5	Ant1	Нор	2.91	90	0.262	<=0.4	PASS

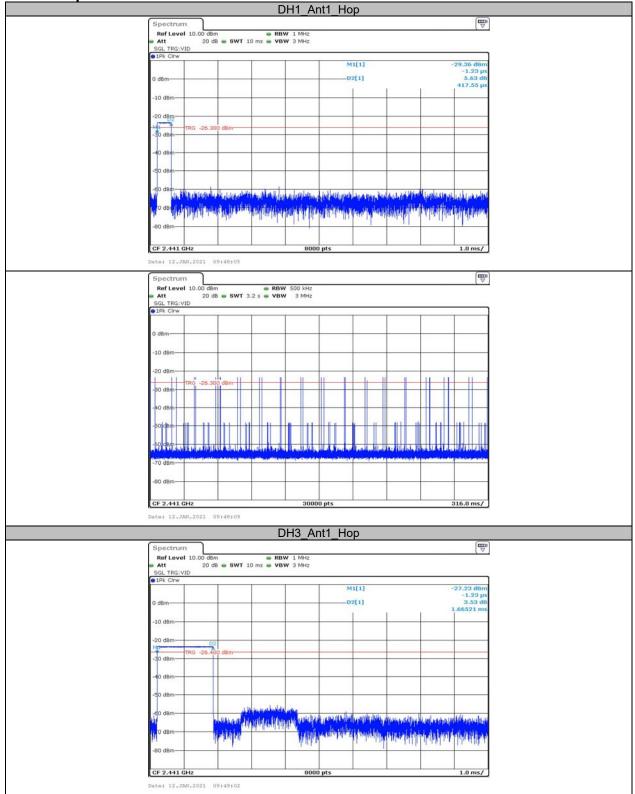
Note 1: A period time=0.4*79=31.6(S), Result=BurstWidth*Totalhops

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

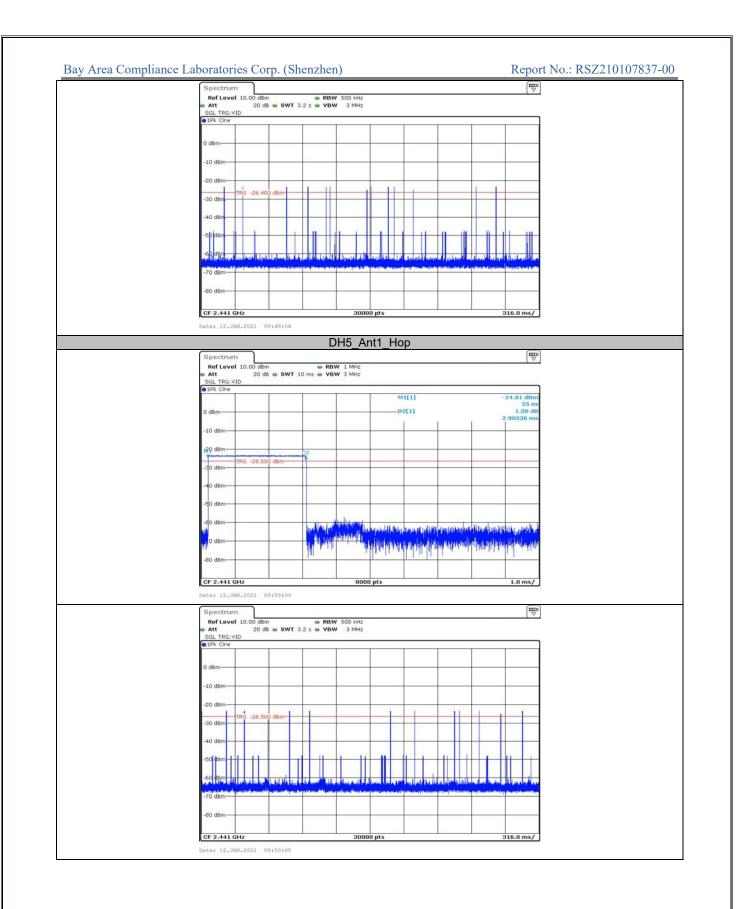
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

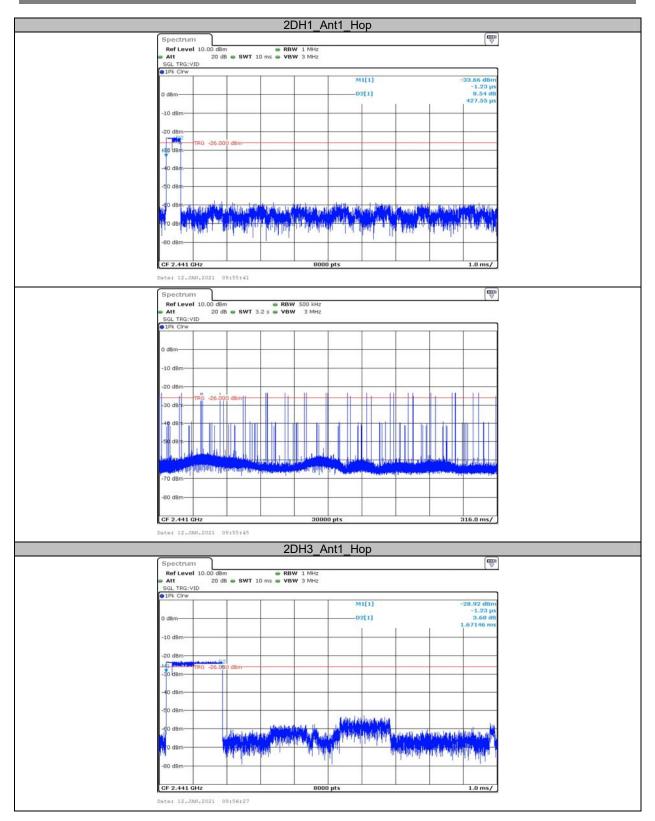
#### Report No.: RSZ210107837-00

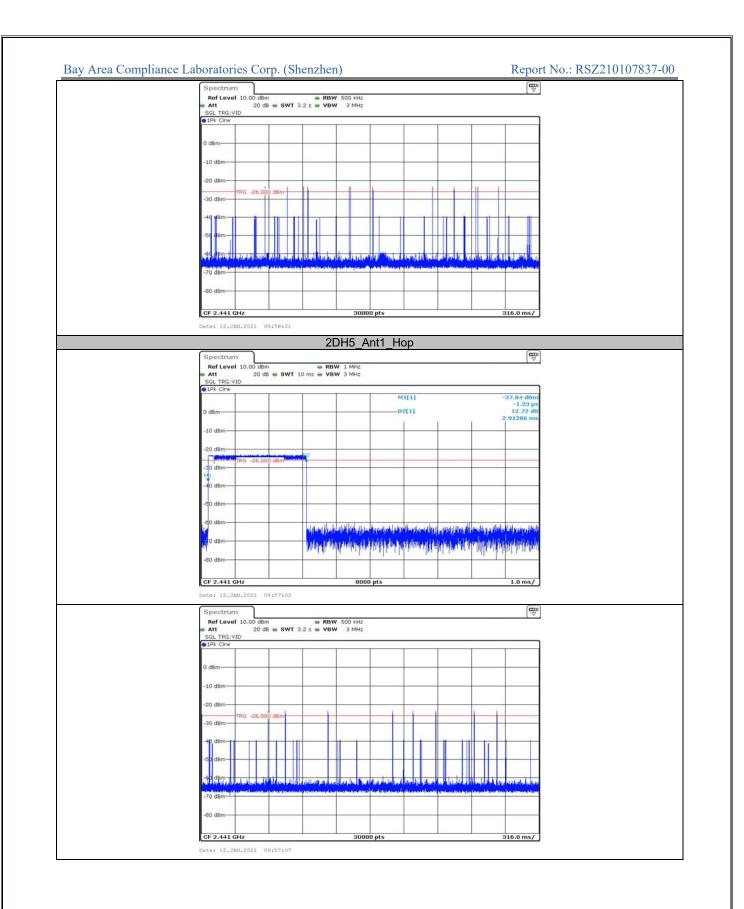
# Test Graphs

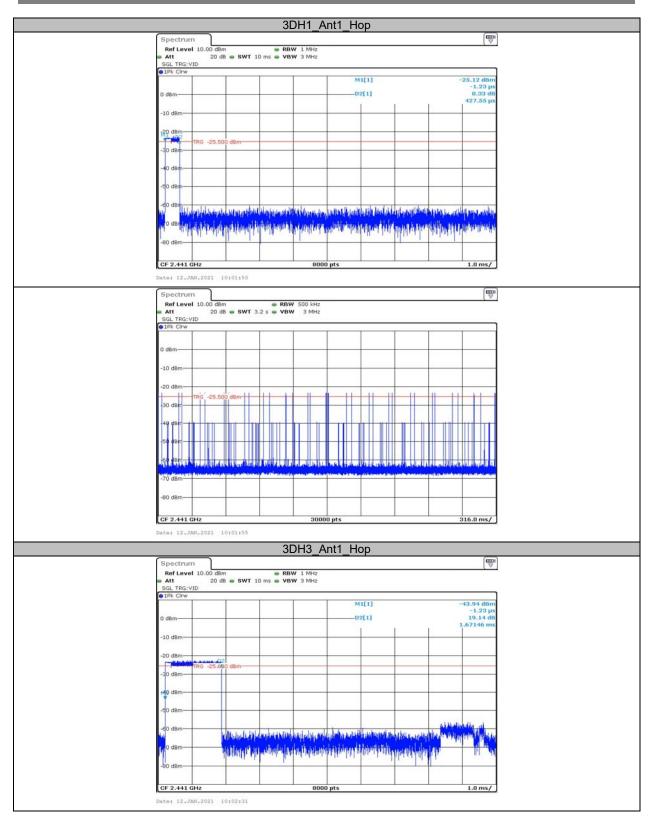


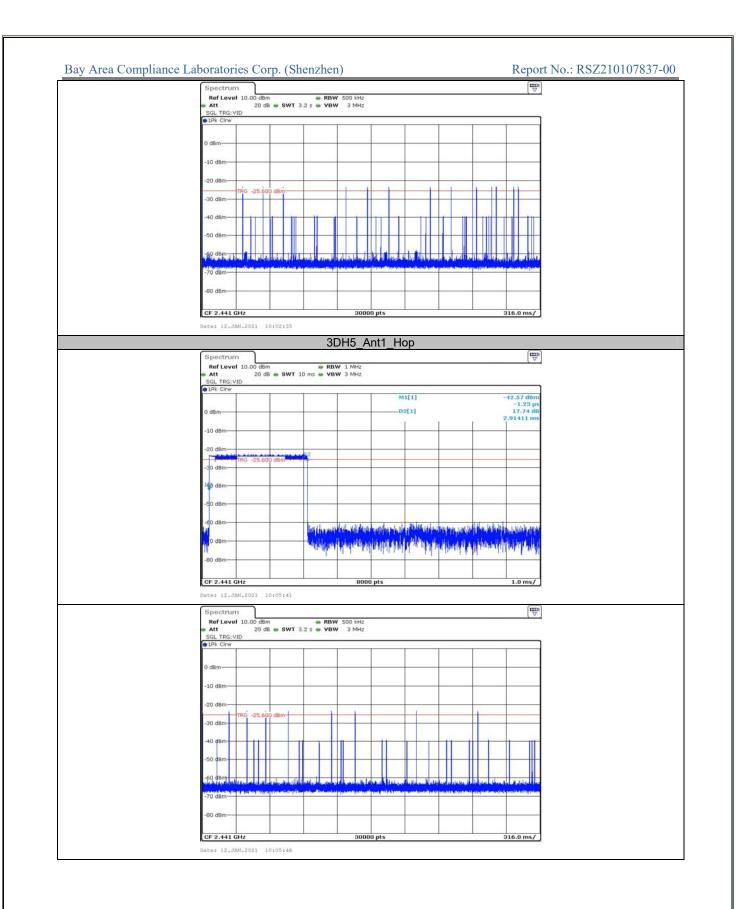
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# Appendix F: Number of hopping channels Test Result

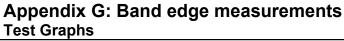
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	>=15	PASS
2DH1	Ant1	Нор	79	>=15	PASS
3DH1	Ant1	Нор	79	>=15	PASS

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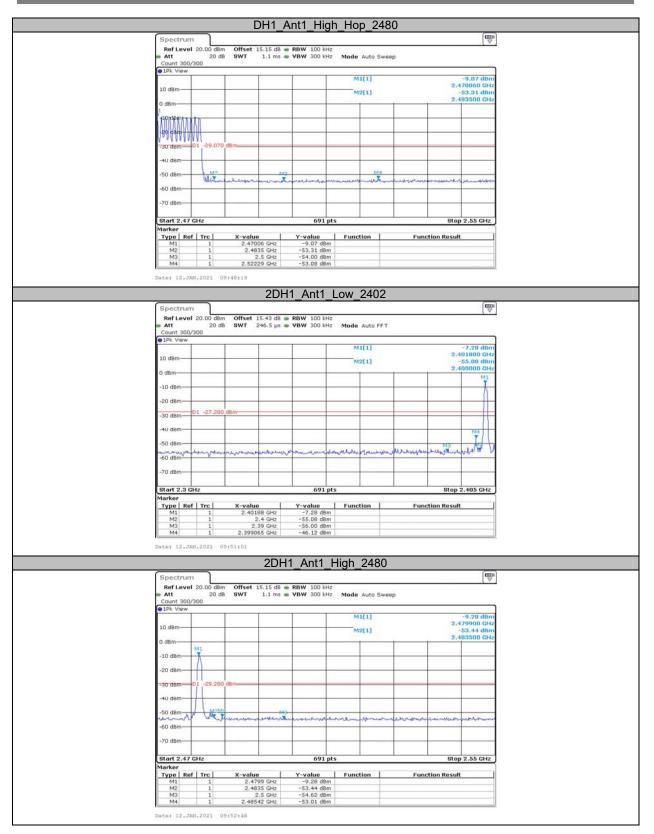
## **Test Graphs**

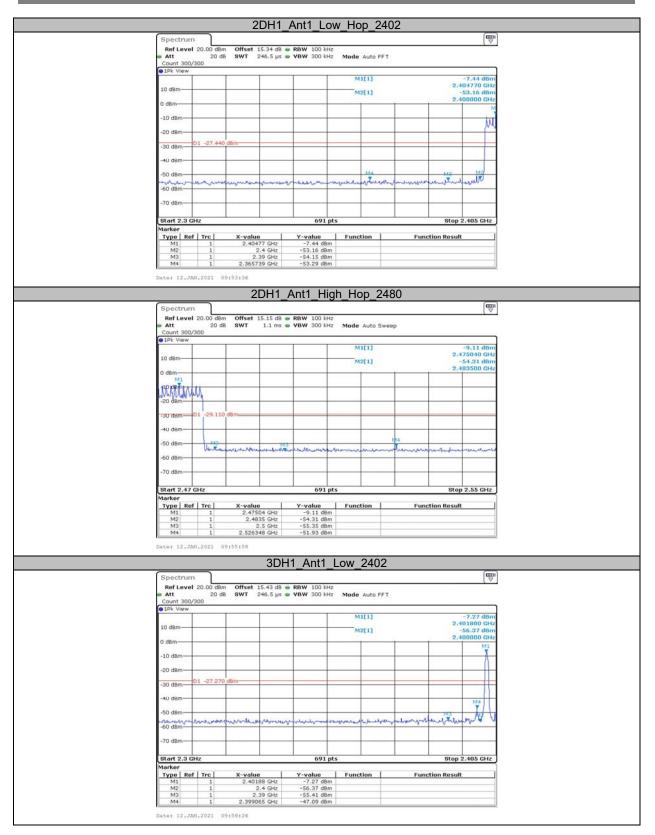
lest Graphs			D	H1_Ar	nt1_Ho	р				
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Ref Level 20.00 dbm Offset 15.43 db e RBW 100 kHz Att 20 db SWT 1 ms e VBW 300 kHz Mode Auto Sweep PIPk View								-i		
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	0 dBm					1.00	A COLORADO	and the second second		
		<u>DEFEAT</u>	A MANYA	HUNAN.			<u>î Mini î</u>	hill hill hill hill here here here here here here here he	MM	
	-34 944 011 00	NANNAANAANNAA	Ind that the	11011004	<b>AAAAAAAA</b>	<b>ANNAN</b>	AMAAAAAA	<u>allinnik</u>	WWW(	
	-30 dBm									
	-40 dBm									
	50 dBm								1	hi.
	-60 dBm									
	-70 dBm	-								
	Start 2.4 GHz			691	pts			Stop 2.	4835 GH	z
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	Spectrum		21	DH1_A	nti_Ho	р			[0	₩)
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	Caucha	<u> </u>	3[	DH1_A	nt1_Ho	р			6	E C
	Spectrum Ref Level 20 Att	0.00 dBm Offset 20 dB SWT	15.43 dB 👄	RBW 100 ki VBW 300 ki	Hz Hz Mode	Auto Sweet	0			₩ V
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	-40 dBm		-							
	50 dBm-									U-J
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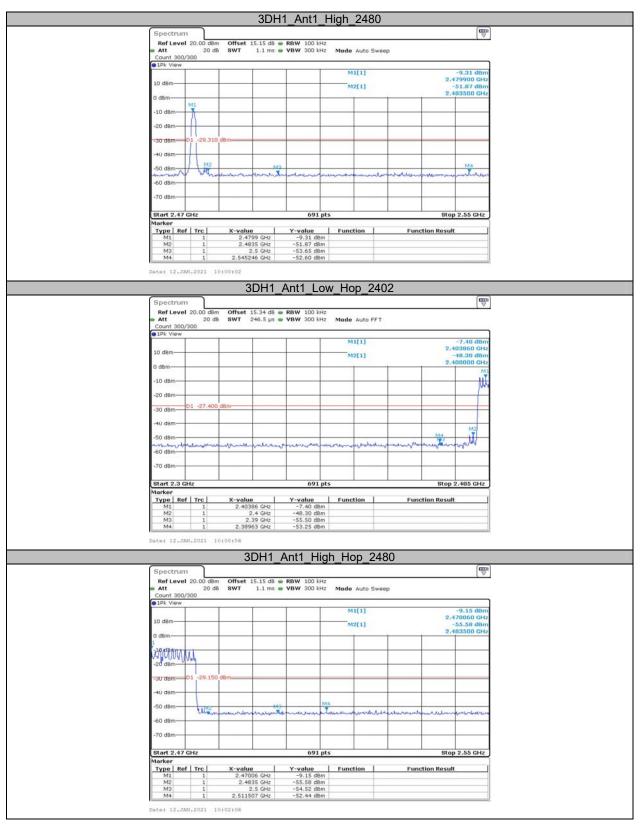








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#### ***** END OF REPORT *****

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