



# FCC PART 15.247 TEST REPORT

For

# **TECNO MOBILE LIMITED**

FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT Hong Kong

# FCC ID: 2ADYY-KG8

Report Type:		Product Type:		
Original Report		Mobile Phone		
Report Number:	SZ1210723-307	05E-RF-00C		
Report Date:	2021-08-17			
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# **GENERAL INFORMATION**

Product	Mobile Phone
Tested Model	KG8
Frequency Range	Bluetooth: 2402-2480MHz
Maximum conducted Peak output power	Bluetooth: 9.38dBm
Modulation Technique	Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Specification*	-1.95dBi(It is provided by the applicant)
Voltage Range	DC 3.87V from battery or DC 5.0V or 10.0V from adapter
Date of Test	2021-07-29 to 2021-08-12
Sample number	SZ1210723-30705E-RF -S1 (Assigned by BACL, Shenzhen)
Received date	2021-07-23
Sample/EUT Status	Good condition
Adapter information	Model: U330TSA Input: 100-240V, 50/60Hz, 1.5A Output: 5.0V 3.0A 15.0W or 10.0V 3.3A 33.0W MAX

#### **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.

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. Each test item follows test standards and with no deviation.

#### **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		$\pm 0.4\%$

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 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, 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**

EUT was test in engineering mode and the power level is default\*. The 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**

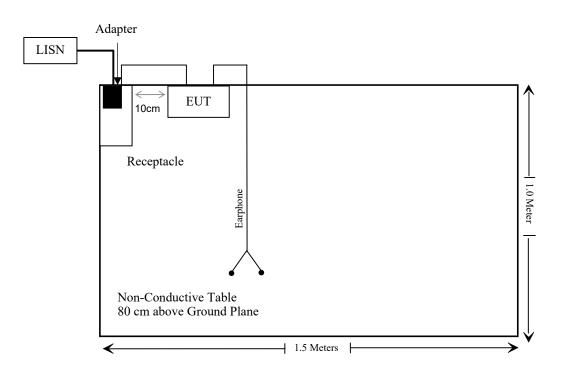
Manufacturer	Description	Model	Serial Number
/	/	/	/

#### External I/O Cable

Cable Description	Length (m)	From Port	То
/	/	/	/

# **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	Compliant
§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	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 Compli	
§15.247(d)	Band edges Complian	

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# **TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	Condu	cted Emissions	Test		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2021/07/07	2022/07/06
Rohde & Schwarz	LISN	ENV216	101613	2021/07/07	2022/07/06
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	2021/07/06	2022/07/05
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
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	V9.10.00	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2021/07/06	2022/07/05
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2020/11/28	2021/11/27
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28
Insulted Wire Inc.	RF Cable	SPS-2503- 3150	02222010	2020/11/29	2021/11/28
SNSD	Band Reject filter	BSF2402- 2480MN- 0898-001	2.4G filter	2021/04/20	2022/04/20
Ducommun Technolagies	Horn antenna	ARH-4223- 02	1007726-02 1304	2020/12/06	2023/12/05
	RF	Conducted Tes	t	1	
Tonscend Corporation	RF control Unit	JS0806-2	19D8060154	2021/07/06	2022/07/05
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2021/07/06	2022/07/05

\* **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§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  $\le 7.5$  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 pov	1	Calculated Distance	Calculated	Threshold	SAR Test
(MHz)	(dBm)	(mW)	(mm)	Value	(1-g SAR)	Exclusion
2402-2480	9.5	8.91	5	2.8	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 -1.95dBi, fulfill the requirement of this section. Please refer to the EUT photos.

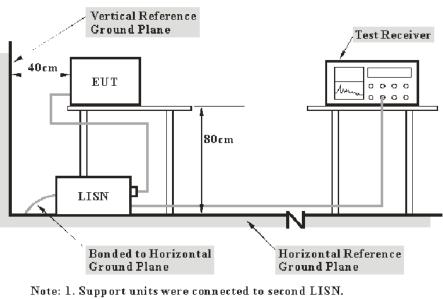
Result: Compliant.

# FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

#### **Applicable Standard**

FCC §15.207(a)

### **EUT Setup**



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 device 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**

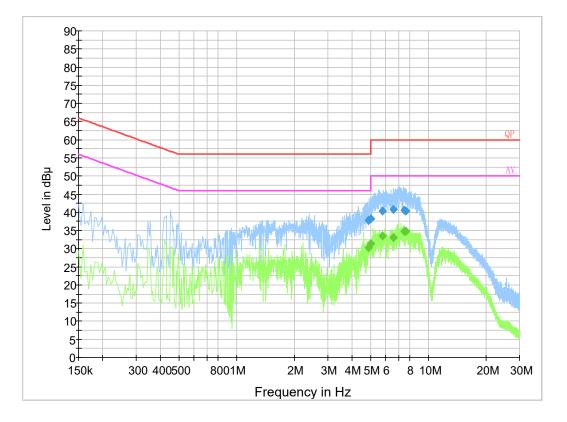
Temperature:	25°C
<b>Relative Humidity:</b>	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-07-30.

EUT operation mode: Bluetooth & Wi-Fi transmitting

#### Report No.: SZ1210723-30705E-RF-00C

#### AC 120V/60 Hz, Line



# **Final Result 1**

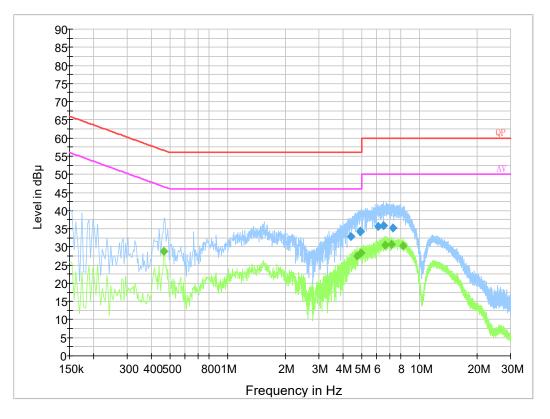
Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
4.888290	37.9	9.000	L1	19.9	18.1	56.0
5.019330	38.2	9.000	L1	19.9	21.8	60.0
5.754370	40.5	9.000	L1	19.9	19.5	60.0
6.563390	40.8	9.000	L1	19.9	19.2	60.0
7.494550	40.6	9.000	L1	19.9	19.4	60.0
7.651370	40.4	9.000	L1	19.9	19.6	60.0

# **Final Result 2**

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
4.888290	30.4	9.000	L1	19.9	15.6	46.0
5.019330	31.4	9.000	L1	19.9	18.6	50.0
5.754370	33.6	9.000	L1	19.9	16.4	50.0
6.563390	33.2	9.000	L1	19.9	16.8	50.0
7.494550	34.9	9.000	L1	19.9	15.1	50.0
7.651370	34.7	9.000	L1	19.9	15.3	50.0

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# 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)
4.396330	32.9	9.000	Ν	19.9	23.1	56.0
4.939030	34.3	9.000	Ν	19.9	21.7	56.0
4.943930	34.1	9.000	Ν	19.9	21.9	56.0
6.099070	35.7	9.000	Ν	19.9	24.3	60.0
6.520530	35.8	9.000	Ν	19.9	24.2	60.0
7.271690	35.3	9.000	Ν	19.9	24.7	60.0

# **Final Result 2**

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.466000	28.8	9.000	Ν	19.8	17.8	46.6
4.746000	27.5	9.000	Ν	19.9	18.5	46.0
4.974000	28.3	9.000	Ν	19.9	17.7	46.0
6.662000	30.6	9.000	Ν	19.9	19.4	50.0
7.186000	30.6	9.000	Ν	19.9	19.4	50.0
8.238000	30.3	9.000	Ν	19.9	19.7	50.0

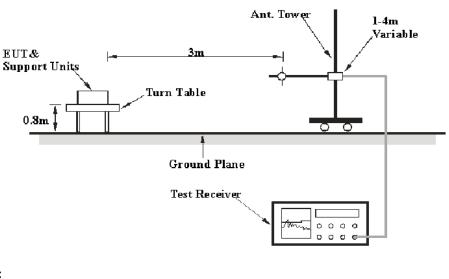
# FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

#### **Applicable Standard**

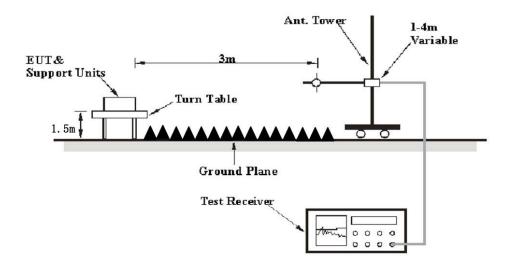
FCC §15.205; §15.209; §15.247(d)

### **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
ADOVE 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**

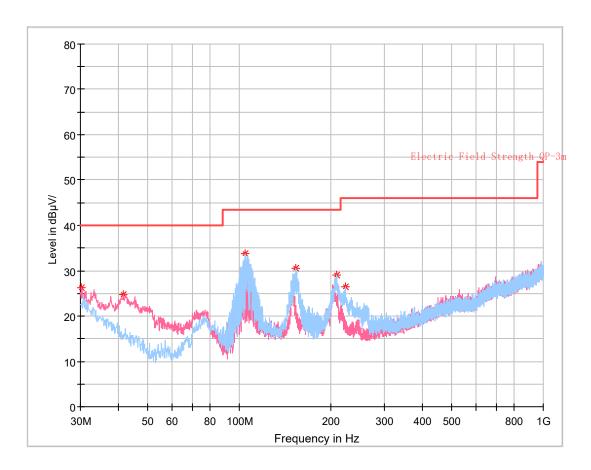
#### **Environmental Conditions**

Temperature:	26~26.1 ℃
<b>Relative Humidity:</b>	51~56 %
ATM Pressure:	101~101.2 kPa

*The testing was performed by Cloud Qiu on 2021-07-29 for below 1GHz and Bruce Lin on 2021-07-29 for above 1GHz.* 

EUT operation mode: Transmitting

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#### 30 MHz~1 GHz: (Bluetooth & Wi-Fi transmitting)

# Critical\_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.242500	26.21	40.00	13.79	100.0	V	100.0	-3.7
41.518750	24.71	40.00	15.29	100.0	V	89.0	-11.5
104.811250	33.79	43.50	9.71	300.0	Н	48.0	-12.5
153.190000	30.60	43.50	12.90	200.0	Н	85.0	-11.5
209.450000	29.13	43.50	14.37	100.0	Н	131.0	-11.2
223.393750	26.56	46.00	19.44	100.0	Н	131.0	-11.4

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E	Re	eceiver	T	Rx An	tenna	Corrected	Corrected	T ••	Maria	
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)									
2389.11	29.18	PK	312	1.3	Н	31.87	61.05	74	12.95	
2389.11	14.76	Ave.	312	1.3	Н	31.87	46.63	54	7.37	
2484.01	29.62	PK	81	1.7	Н	32.13	61.75	74	12.25	
2484.01	14.58	Ave.	81	1.7	Н	32.13	46.71	54	7.29	
4804.00	48.57	PK	349	1.1	Н	6.28	54.85	74	19.15	
4804.00	35.03	Ave.	349	1.1	Н	6.28	41.31	54	12.69	
	Middle Channel (2441 MHz)									
4882.00	46.21	PK	250	2.4	Н	6.76	52.97	74	21.03	
4882.00	34.25	Ave.	250	2.4	Н	6.76	41.01	54	12.99	
			High Ch	annel (2	2480 MI	Hz)				
2389.25	29.02	PK	304	1.9	Н	31.87	60.89	74	13.11	
2389.25	14.78	Ave.	304	1.9	Н	31.87	46.65	54	7.35	
2483.53	29.33	PK	51	1.9	Н	32.13	61.46	74	12.54	
2483.53	14.62	Ave.	51	1.9	Н	32.13	46.75	54	7.25	
4960.00	45.28	РК	149	1.7	Н	6.80	52.08	74	21.92	
4960.00	33.58	Ave.	149	1.7	Н	6.80	40.38	54	13.62	

**1 GHz - 25 GHz:** (Scan with GFSK,  $\pi/4$ -DQPSK, 8DPSK mode, the worst case is GFSK Mode)

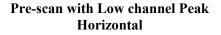
Note:

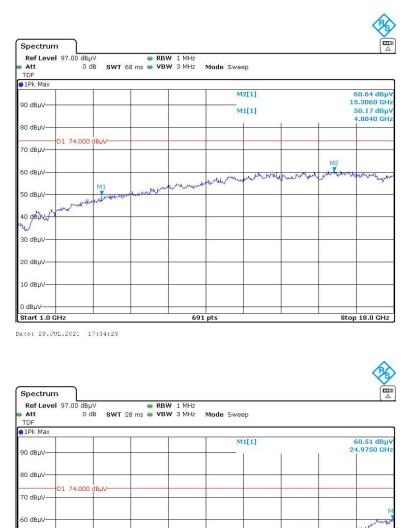
Corrected Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.





691 pts

Date: 29.JUL.2021 18:19:47

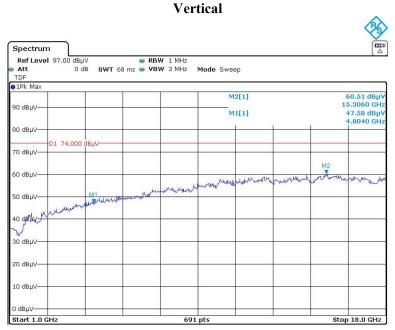
Start 18.0 GHz

50 аврун 40 авµу— 30 авµу— 20 авµу— 10 авµу— 0 авµу—

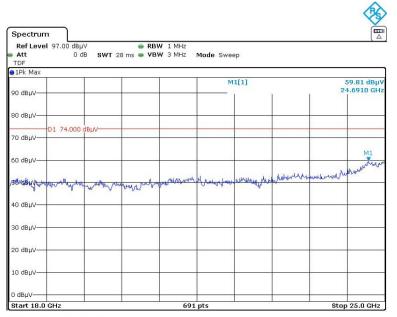
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Stop 25.0 GHz

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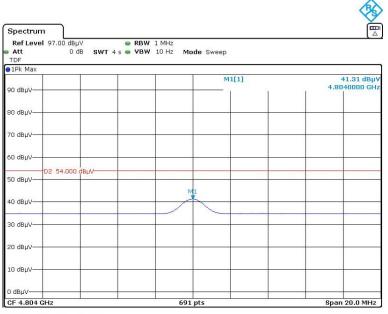
Date: 29.JUL.2021 17:44:54



Date: 29.JUL.2021 18:29:12

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Date: 29.JUL.2021 17:39:48

Reflev	m el 97.00 dBµ	IV.	🖷 RBW	1 MHz			
Att	0 0	IB SWT	● RBW 4 s ● VBW	10 Hz Mc	ode Sweep		
1Pk Max							
0 dBµV—			_		M1[1]	1 1	46.64 dBµ\ 24.9650000 GH
30 dBµV—	-		_				
'O dBµV—						_	
io dBµV—						_	
i0 dBµV—	D2 54.000	dBµV					
Ю dBµV—			-				
30 dBµV—	-		_			_	
20 dBµV—			_				

Date: 29.JUL.2021 18:24:26

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#### Report No.: SZ1210723-30705E-RF-00C

#### Vertical

	v er ticur	()
Spectrum		
Ref Level 97.00 dBμV           Att         0 dB SWT           TDF	● RBW 1 MHz 4 s ● VBW 10 Hz Mode Sweep	
91Pk Max		
90 dBµV	M1[1]	37.21 dBµV 4.8040000 GHz
80 dBµV		
70 dBµV		
60 dBµV		
D2 54.000 dBµV		
40 dBµV		
30 dBµV		
20 dBµV		
10 dBµV		
0 dBµV		
CF 4.804 GHz	691 pts	Span 20.0 MHz

Date: 29.CUL.2021 17:49:08

Att 0 dB SWT 4 s 👄 TDF	RBW 1 MHz VBW 10 Hz Mode Sweep	
1Pk Max	M1[1]	46.63 dBµ
90 dBµV		24.7010000 GH
30 dBµV		
0 dBµV		
0 dBµV		
D2 54.000 dBµV		
0 dBµV		
0 dBµV		
0 dBµV		
0 dBµV		
) dBµV		

Date: 29.CUL.2021 18:35:02

# 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:	25 °C
<b>Relative Humidity:</b>	63 %
ATM Pressure:	101.0 kPa

The testing was performed by Restar Li on 2021-08-11.

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:	25 °C
<b>Relative Humidity:</b>	63 %
ATM Pressure:	101.0 kPa

The testing was performed by Restar Li on 2021-08-11.

#### 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:	25 °C
<b>Relative Humidity:</b>	63 %
ATM Pressure:	101.0 kPa

The testing was performed by Restar Li on 2021-08-11.

#### 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:	25 °C
<b>Relative Humidity:</b>	63 %
ATM Pressure:	101.0 kPa

The testing was performed by Restar Li on 2021-08-12.

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:	25 °C
<b>Relative Humidity:</b>	63 %
ATM Pressure:	101.0 kPa

The testing was performed by Restar Li on 2021-08-11.

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:	25 °C
<b>Relative Humidity:</b>	63 %
ATM Pressure:	101.0 kPa

The testing was performed by Restar Li on 2021-08-11.

EUT operation mode: Transmitting

# APPENDIX

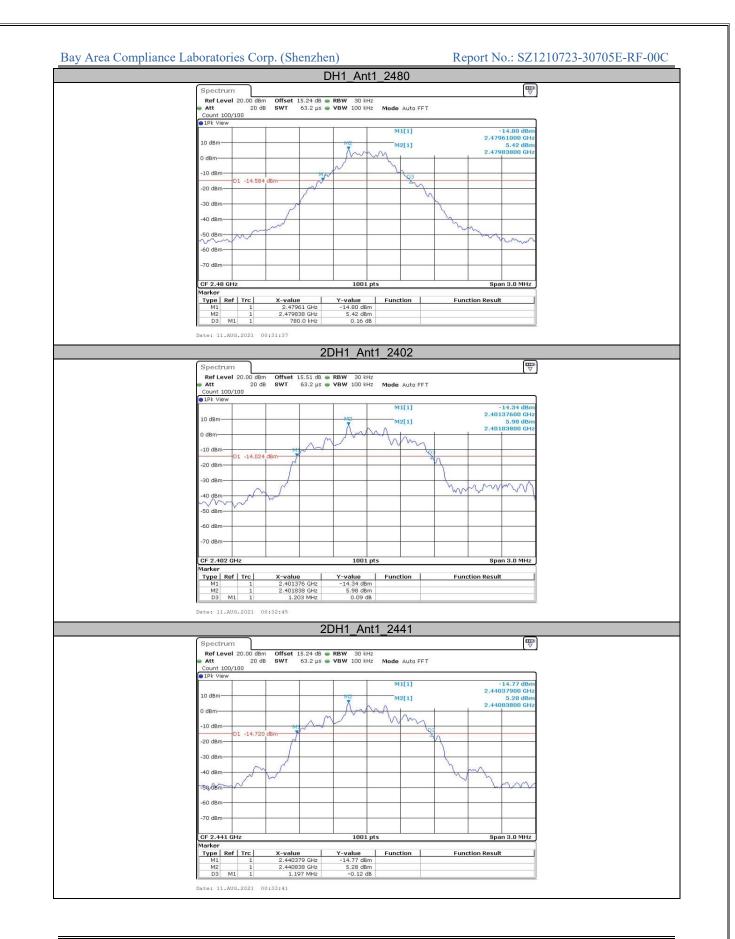
#### Appendix A: 20dB Emission Bandwidth

#### **Test Result**

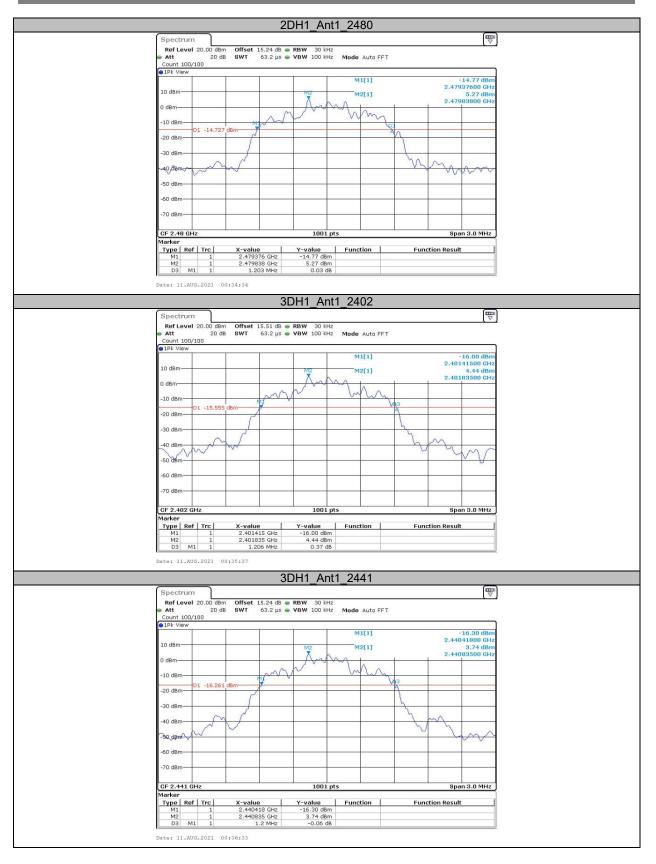
TestMode	Antenna	Channel	20db EBW[MHz]	Verdict
DH1 Ant1		2402	0.780	PASS
	2441	0.774	PASS	
		2480	0.780	PASS
2DH1 Ant1		2402	1.203	PASS
	Ant1	2441	1.197	PASS
		2480	1.203	PASS
3DH1 Ant1		2402	1.206	PASS
	Ant1	2441	1.200	PASS
		2480	1.212	PASS

## **Test Graphs**





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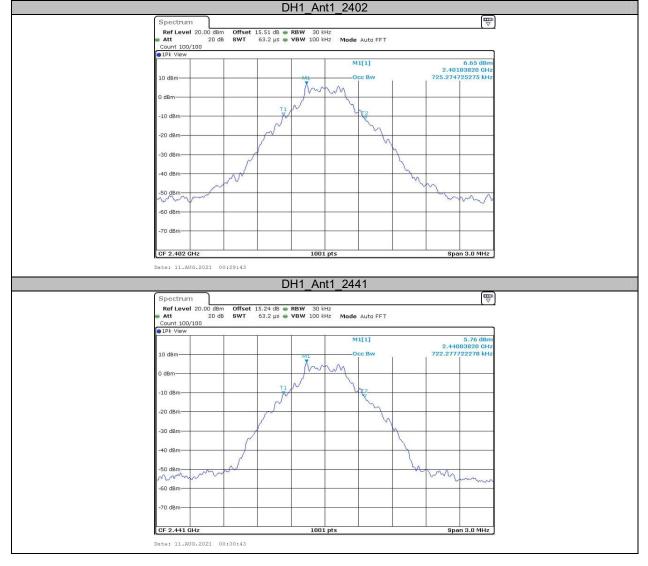
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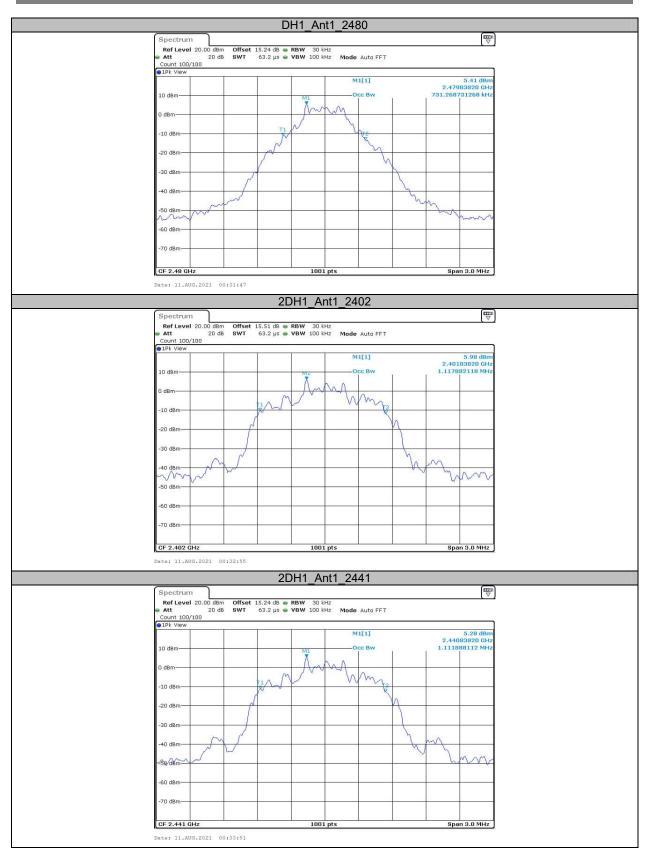
#### **Appendix B: Occupied Channel Bandwidth**

Test Res	ult			
TestMode	Antenna	Channel	OCB [MHz]	Verdict
DH1		2402	0.725	PASS
	Ant1	2441	0.722	PASS
		2480	0.731	PASS
2DH1 Ant		2402	1.118	PASS
	Ant1	2441	1.112	PASS
		2480	1.124	PASS
3DH1		2402	1.109	PASS
	Ant1	2441	1.106	PASS
		2480	1.118	PASS

# **Test Graphs**



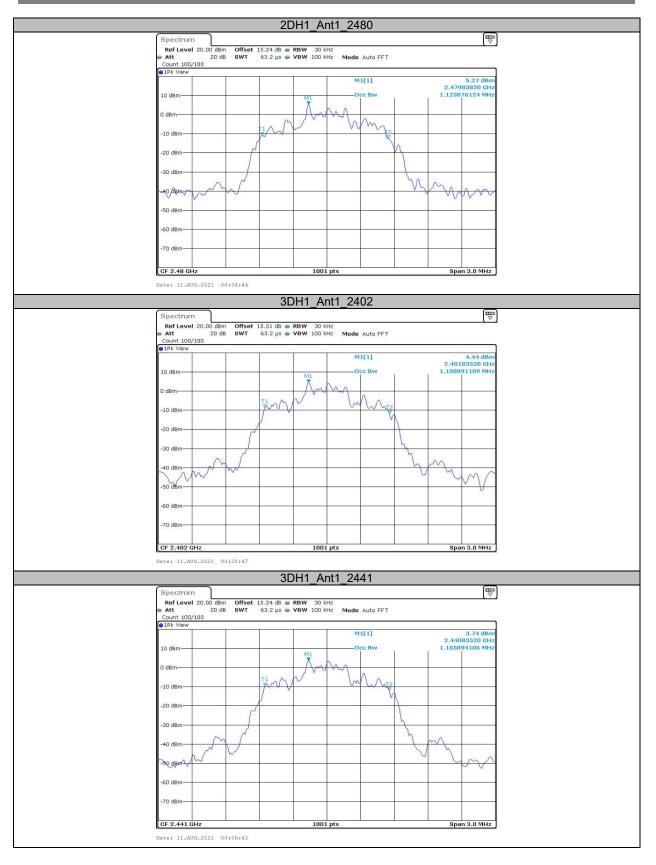
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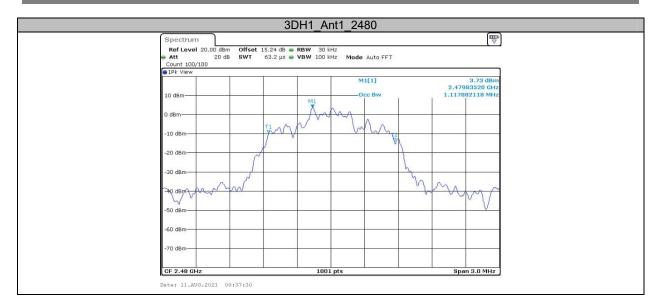
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# Appendix C: Maximum conducted Peak output power

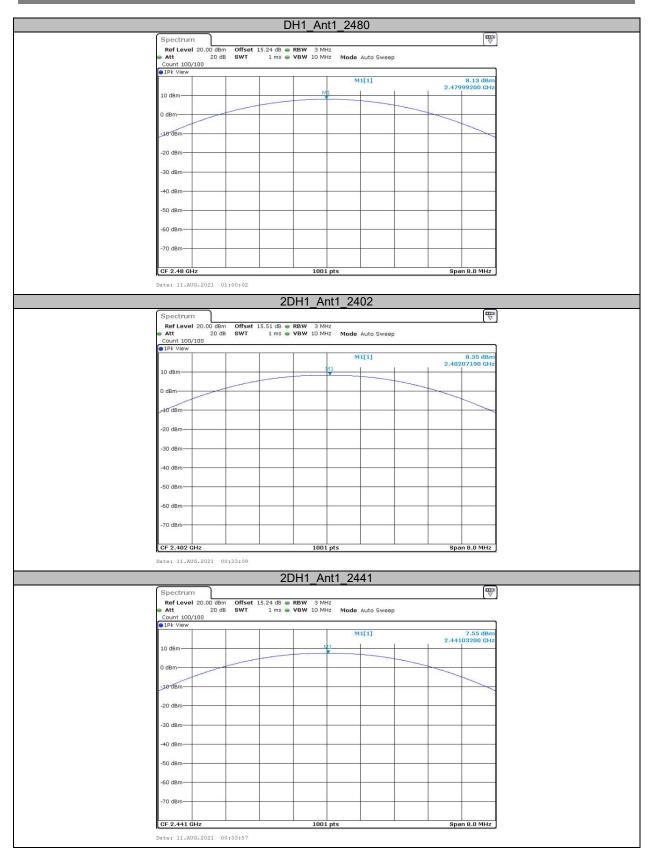
# **Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	9.38	≤20.97	PASS
DH1	Ant1	2441	8.28	≤20.97	PASS
		2480	8.13	≤20.97	PASS
		2402	8.35	≤20.97	PASS
2DH1	Ant1	2441	7.55	≤20.97	PASS
		2480	7.79	≤20.97	PASS
		2402	8.31	≤20.97	PASS
3DH1	Ant1	2441	7.56	≤20.97	PASS
		2480	7.76	≤20.97	PASS

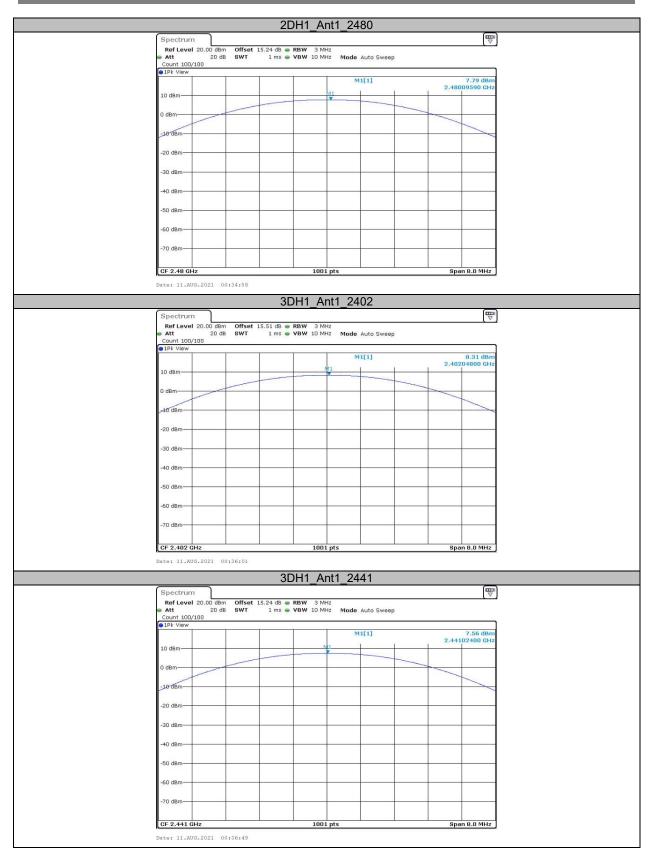
# Test Graphs

	DH1_Ant1_2402		
 Spectrum			
RefLevel 20.00 dBm Offset 15.51 dB Att 20 dB SWT 1 ms	<ul> <li>RBW 3 MHz</li> <li>VBW 10 MHz</li> <li>Mode Auto Sweep</li> </ul>		
Count 100/100			
● 1Pk View	M1[1]	9.38 dBm	
	MB	2.40192810 GHz	
10 dBm			
0 dBm			
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm-			
-50 dBm			
-60 dBm			
70 d8m			
-70 dBm			
CF 2.402 GHz	1001 pts	Span 8.0 MHz	
Date: 11.AUG.2021 00:29:57	DH1_Ant1_2441		
Spectrum RefLevel 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1 ms		(m)	
Spectrum Ref Level 20.00 dBm Offset 15.24 dB	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep		-
Spectrum Ref Level 20.00 dBm Offset 15.24 dB • Att 20 dB SWT 1 ms Count 100/100	RBW 3 MHz	8.28 dBm	-
Spectrum Ref Level 20.00 dBm Offset 15.24 dB • Att 20 dB SWT 1 ms Count 100/100	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep		
 Spectrum Ref Level 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1 ms Count 100/100 IPk View 10 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	_
 Spectrum Ref Level 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1 ms Count 100/100 PIPk View	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
 Spectrum Ref Level 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1 ms Count 100/100 IPk View 10 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
 Spectrum Ref Level 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1 ms count 100/100 IPk View 10 dBm 0 dBm 0 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
 Spectrum Ref Level 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1 ms Count 100/100 IPk View 10 dBm 0 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum Ref Level 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1 ms count 100/100 IPk View 10 dBm 0 dBm 0 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           count 100/100         IPk View         10 dBm         10 dBm         10 dBm           0 dBm         -20 dBm         -30 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           Count 100/100         1 Pk View         10 dBm         0 dBm         0 dBm           0 dBm         -20 dBm         -20 dBm         -20 dBm         -20 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           Count 100/100         Ims         0         Ims           10 dBm         0 dBm         0         Ims           20 dB         -0         -0         -0         -0           -20 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           count 100/100         IPk View         10 dBm         10 dBm         10 dBm           0 dBm         -20 dBm         -30 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           Count 100/100         Ims         0         Ims           10 dBm         0 dBm         0         Ims           20 dB         -0         -0         -0         -0           -20 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           count 100/100         0 dBm         0         0           0 dBm         0 dBm         0         0           10 dBm         0         0         0           -20 dB	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           Count 100/100         1 Pk         View         10           ID dBm         10 dBm         10         10           -10 dBm	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	
Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1 ms           count 100/100         0 dBm         0         0           0 dBm         0 dBm         0         0           10 dBm         0         0         0           -20 dB	RBW 3 MHz     VBW 10 MHz     Mode Auto Sweep	8.28 dBm	

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Spectrum		
	dB 🖷 RBW 3 MHz	(*)
Att 20 dB SWT 1	ms 🖷 VBW 10 MHz 🛛 Mode Auto Sweep	
Count 100/100		
Thk Alem	M1[1]	7.76 dBm
	MILLI	2.48010390 GHz
10 dBm-	M1	
0 dBm		
-10 dBm		
-20 dBm		
20 0011		
-30 dBm		
-SG GBII		
-40 dBm		
-40 0611		
-50 dBm		
-60 dBm		
-70 dBm		
CF 2.48 GHz	1001 pts	Span 8.0 MHz

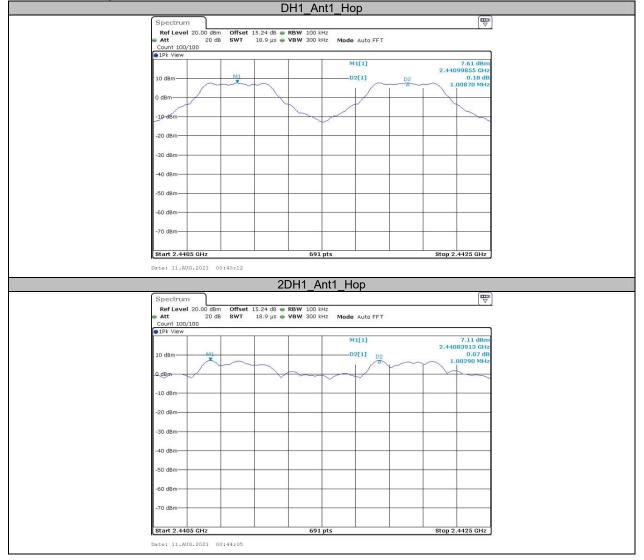
# **Appendix D: Carrier frequency separation**

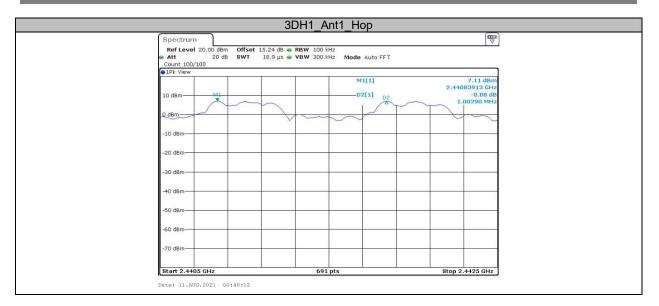
# **Test Result**

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.009	≥0.520	PASS
2DH1	Ant1	Нор	1.003	≥0.802	PASS
3DH1	Ant1	Нор	1.003	≥0.808	PASS

Note: the limit = (2/3) \* 20dB bandwidth

## **Test Graphs**





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# Appendix E: Time of occupancy

# **Test Result**

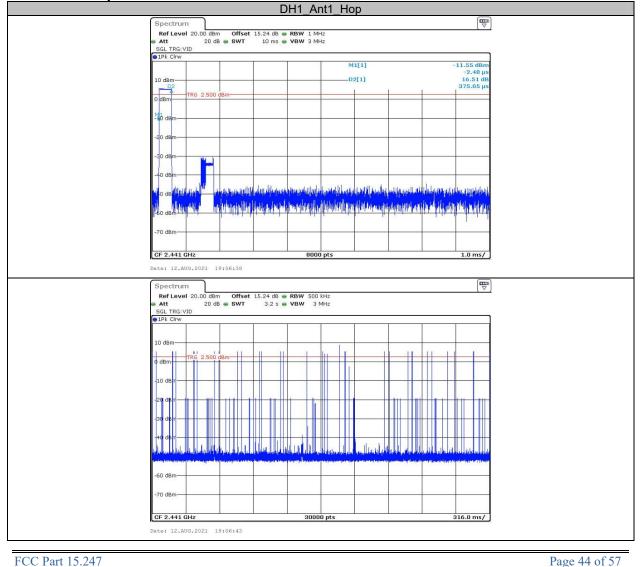
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.38	310	0.116	≤0.4	PASS
DH3	Ant1	Нор	1.62	170	0.276	≤0.4	PASS
DH5	Ant1	Нор	2.86	100	0.286	≤0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Нор	1.63	150	0.244	≤0.4	PASS
2DH5	Ant1	Нор	2.87	130	0.373	≤0.4	PASS
3DH1	Ant1	Нор	0.38	320	0.122	≤0.4	PASS
3DH3	Ant1	Нор	1.63	150	0.244	≤0.4	PASS
3DH5	Ant1	Нор	2.87	100	0.287	≤0.4	PASS

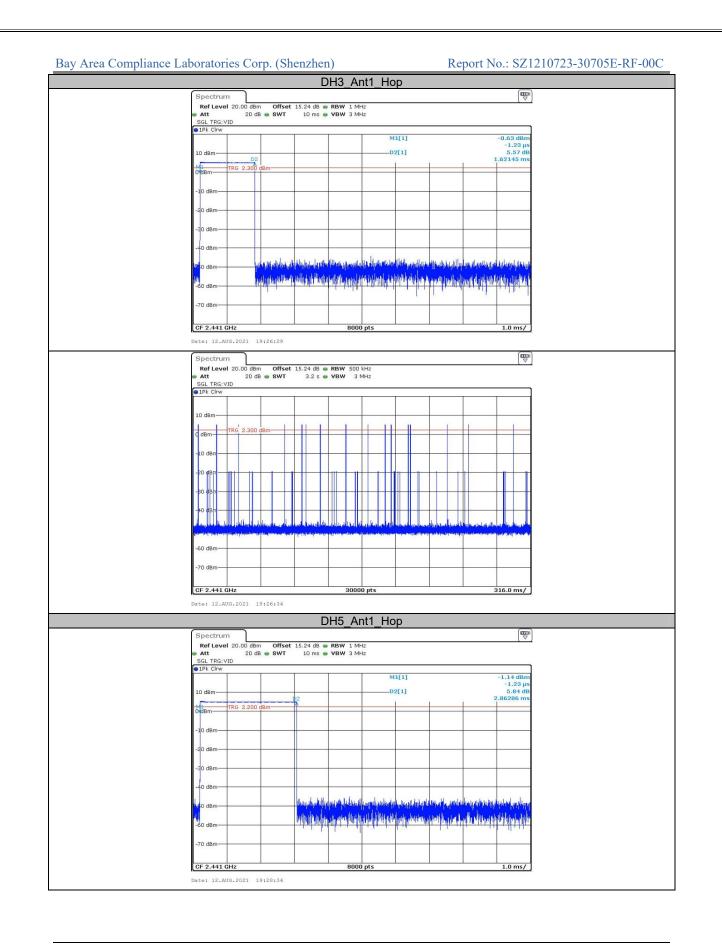
Note 1: A period time=0.4\*79=31.6(S), Result=BurstWidth\*Totalhops

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

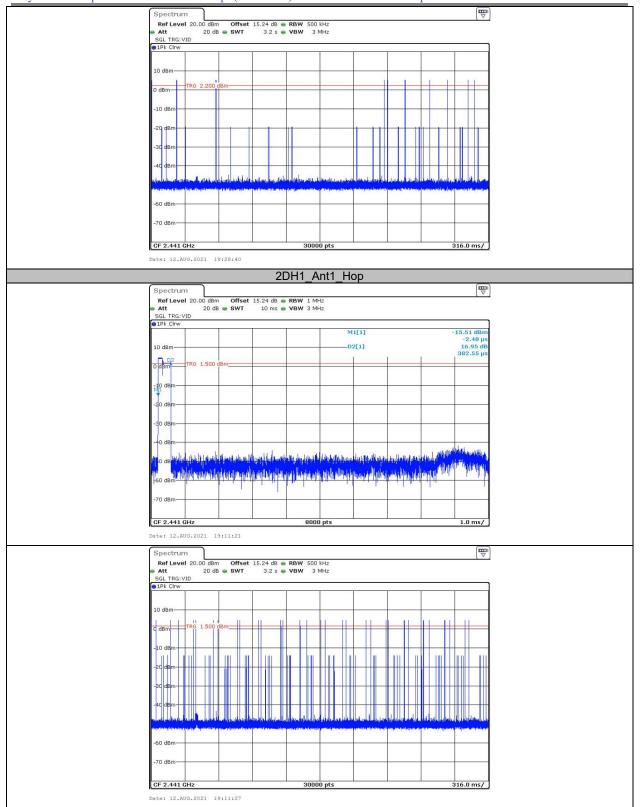
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

# **Test Graphs**

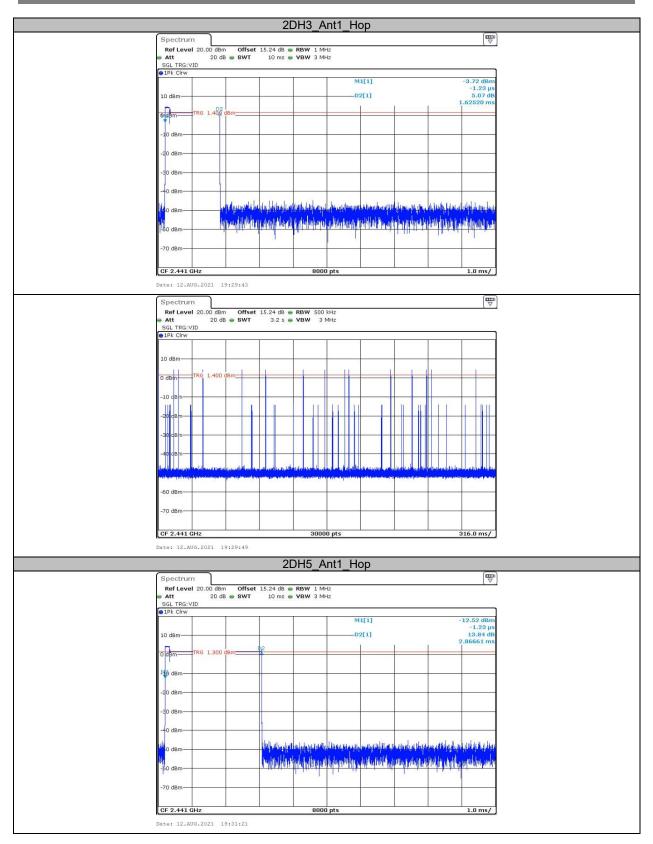


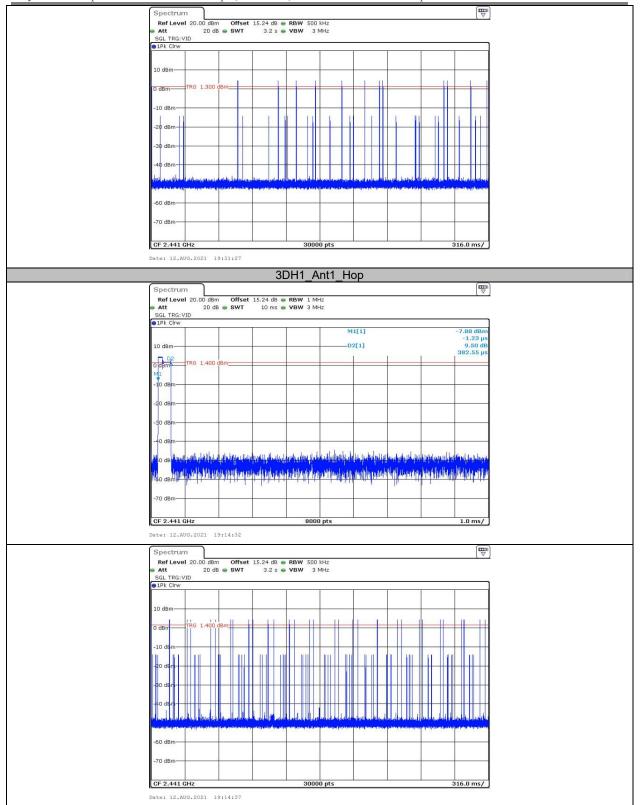


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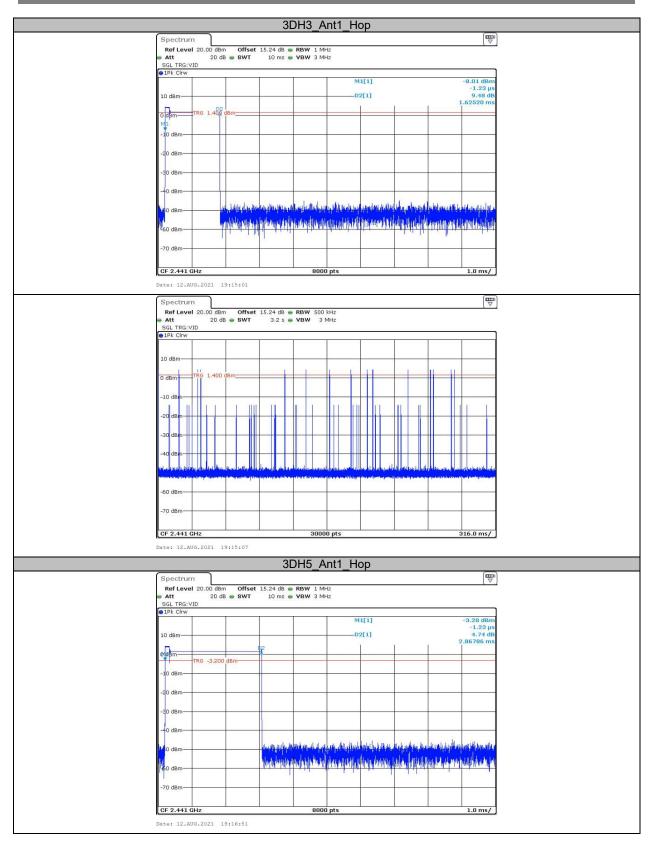


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● Att 20 dB ● SWT 3.2 s ● VBW 3 MHz SGL TRG:VID
●1Pk Clrw
10 dBm
-10 dBm
-20 dBm
-30 dBm
-4C dBm
يتبعلكم والفريسي البيرية ويستعمل والسابو فيحقل المحتم فيستم والتعبار فترقي ومحاول والمحتمل والمتلك والبير الشمائي والمساليب
-70 dBm
CF 2.441 GHz         30000 pts         316.0 ms/

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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

# Test Graphs

•			DH1_Ant1_H	эр		
	Spectrum					
	RefLevel 20.00 dBn Att 20 dl	m Offset 15.51 dB B SWT 189.6 µs	RBW 100 kHz VBW 300 kHz Mode	FET		
	e 1Pk View					
	10 dam-			41[1]	8.46 dBm 2.404050 GHz	
	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ANDANA ANDANA ANDANA	ARADAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	LOADAAN (SAAANAA	Anagaa and a badda	
	0   GB m	Walialaada	rs mani	no an taon	WWWWWW	
	-10 agu	<del>                                     </del>			<mark>∦∥⊪∥∗⊭⊪⊮∝⊷⊮</mark> ∖	
	-20 dBm					
	-30 dBm					
	-40 dBm					
	50 dBm					
	-60 dBm					
	-70 dBm					
	Start 2.4 GHz		691 pts		Stop 2.4835 GHz	
	Date: 11.AUG.2021 0					
	Date: 11.406.2021 0		DH1_Ant1_H	ор		
	Spectrum	2		ор		
	Spectrum Ref Level 20.00 dBr Att 20 dl	2 m Offset 15.51 dB	<b>RBW</b> 100 kHz			
	Spectrum Ref Level 20.00 dBr	2 m Offset 15.51 dB	RBW 100 kHz VBW 300 kHz Mode		8.00 dBm	1
	Spectrum Ref Level 20.00 dër e Att 20 di e 1Pk View	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT		
	Spectrum Ref Level 20.00 dër e Att 20 di e 1Pk View	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum Ref Level 20.00 dër e Att 20 di e 1Pk View	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum Ref Level 20.00 dBr Att 20.01 IPk View 10 dBr 0 dBr	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum Ref Level 20.00 dBn Att 20 dl PIPk View 10 dBm -10 dBm	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum Ref Level 20.00 dBr Att 20 dB PFk View 10 dBm -10 dBm -20 dBm	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum Ref Level 20.00 dBn Att 20 db PIK View 10 dbm -10 dBm -20 dBm -20 dBm -40 dBm	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum           Ref Level 20.00 dBr           Att         20 db           ID dBr           -10 dBr           -20 dBr           -30 dBr           -50 dBr	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum Ref Level 20.00 dBn Att 20 df 1Pk View 10 dbm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum           Ref Level 20.00 dBr           Att         20 db           ID dBr           -10 dBr           -20 dBr           -30 dBr           -50 dBr	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum Ref Level 20.00 dBn Att 20 df 1Pk View 10 dbm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm	т <b>Offset</b> 15.51 dB В <b>SWT</b> 189.6 µs е	RBW 100 kHz VBW 300 kHz Mode	9 FFT	8.00 dBm	
	Spectrum           Ref Level 20.00 dBn           Att         20 db           ID dBn         0           -10 dBn         -           -20 dBm         -           -30 dBm         -           -50 dBm         -           -70 dBm         -	2	RBW 100 kHz         Mode           VBW 300 kHz         Mode           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	9 FFT		

	3DH1_Ant1_H	lop		
Spectrum				
Att 20 dB SWT	et 15.51 dB 🖷 RBW 100 kHz 189.6 µs 🖷 VBW 300 kHz Mode	e FFT		
10 dBg		м1[1]	8.24 dBm 2.404890 GHz	
		AMPRILIA MANAMANA MANA	MANANA	
-10 dBm	1 1			
-20 dBm				
40 dBm				
-50 dBm			- U	
-60 dBm				
-70 dBm Start 2.4 GHz	691 pts		Stop 2.4835 GHz	

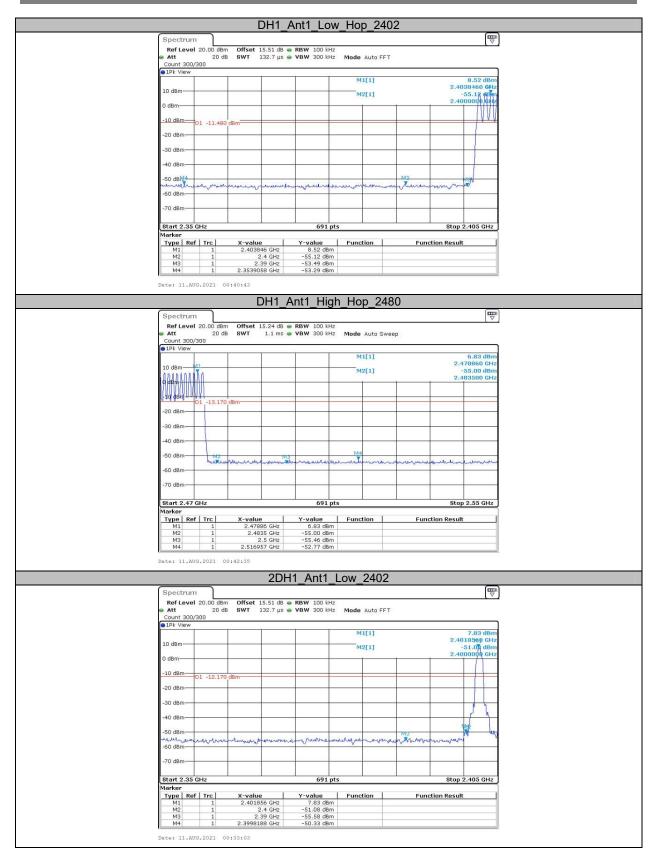
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# Appendix G: Band edge measurements

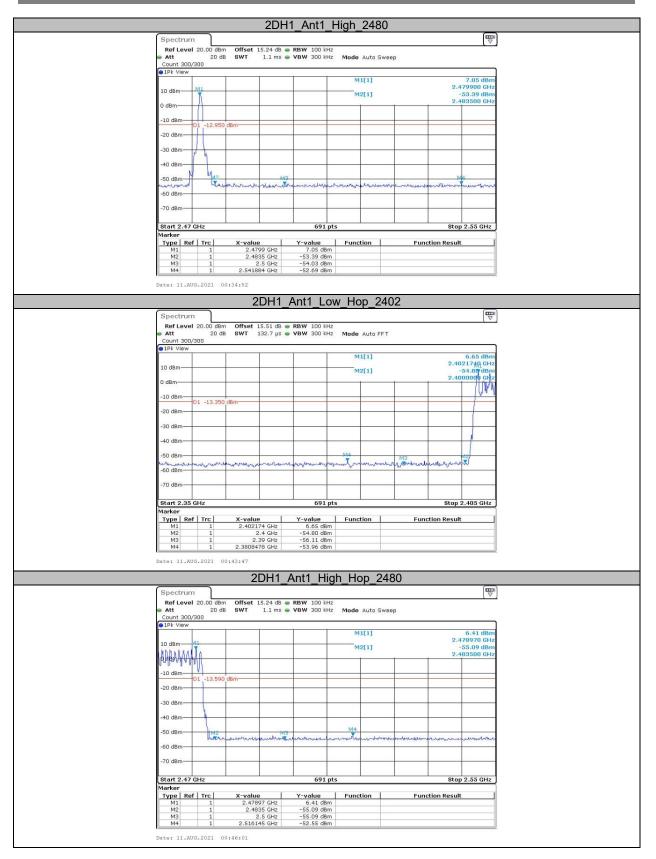
# Test Graphs

 DH	1 Ant1 Low 2402		
Spectrum			
Ref Level 20.00 dBm Offset 15.51 dB Att 20 dB SWT 132.7 μs e	RBW 100 kHz VBW 300 kHz Mode Auto FFT		
Count 300/300			
● 1Pk View		5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
10 d9m	M1[1]	8.75 dBm 2.4020180 GHz	
10 dBm	M2[1]	-54.78 dBm 2.4000000 GHz	
0 dBm	+ + + +	2.400000 GHZ	
-10 dBm 01 -11.250 dBm			
-20 dBm			
-30 dBm	+ + +		
-40 dBm	+ + +		
-50 dBm Mt	up man and when hour when	agriculture the state	
-60 dBm			
-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 2.402015 GHz	8.75 dBm		
M2 1 2.4 GHz M3 1 2.39 GHz	-54.72 dBm -56.82 dBm		
M4 1 2.3607609 GHz	-53.10 dBm		
and a state of the	-33.10 UBIII		
Date: 11.AUG.2021 00:29:51	-55.10 UBIII	J	
 Date: 11.AUG.2021 00:29:51		IJ	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480		
Date: 11.AUG.2021 00:29:51			
 Date: 11.AUG.2021 00:29:51 DH Spectrum RefLevel 20.00 dBm Offset 15.24 dB	1_Ant1_High_2480		
 Date: 11.AUG.2021 00:29:51 DH Spectrum RefLevel 20.00 dBm Offset 15.24 dB	1 Ant1 High 2480	n [₩7	
Date:         11.AUG.2021         00;29:51           DH'           Spectrum           Ref Level 20.00 dBm         Offset 15.24 dB           Att         20 dB         SWT         1.1 ms	1_Ant1_High_2480 RBW 100 kHz VBW 300 kHz Mode Auto Sweep		
 Date: 11.AUG.2021 00;29:51	1_Ant1_High_2480	7.41 dBm	
 Date: 11.AUG.2021 00:29:51 DH' Spectrum Ref Level 20.00 dBm Offset 15.24 dB Att 20 dB SWT 1.1ms ( Count 300/300	1_Ant1_High_2480 RBW 100 kHz VBW 300 kHz Mode Auto Sweep	7.41 dBm 2.480010 GHz -53.77 dBm	
Date: 11.AUG.2021 00;29:51	1_Ant1_High_2480	7.41 dBm 2.480010 GHz	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480	7.41 dBm 2.480010 GHz -53.77 dBm	
 Date: 11.AUG.2021 00;29:51	1_Ant1_High_2480	7.41 dBm 2.480010 GHz -53.77 dBm	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480	7.41 dBm 2.480010 GHz -53.77 dBm	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480	7.41 dBm 2.480010 GHz -53.77 dBm	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480	7.41 dBm 2.480010 GHz -53.77 dBm	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480	7.41 dBm 2.480010 GHz -53.77 dBm	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480  RBW 100 kHz VBW 300 kHz Mode Auto Sweep  M1[1]  M2[1]	7,41.dBm 2,480010 GHz - 53.77 dBm 2,483500 GHz	
Date: 11.AUG.2021 00:29:51 DH' Ref Level 20.00 dBm Offset 15.24 dB e Att 20 dB SWT 1.1 ms e Count 200/300 0 dBm 01 -12.590 dBm	1_Ant1_High_2480  RBW 100 kHz VBW 300 kHz Mode Auto Sweep  M1[1]  M2[1]	7.41 dBm 2.480010 GHz -53.77 dBm	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480  RBW 100 kHz VBW 300 kHz Mode Auto Sweep  M1[1]  M2[1]	7,41.dBm 2,480010 GHz - 53.77 dBm 2,483500 GHz	
Date: 11.AUG.2021 00:29:51 DH' Ref Level 20.00 dBm Offset 15.24 dB e Att 20 dB SWT 1.1 ms e Count 200/300 0 dBm 01 -12.590 dBm	1_Ant1_High_2480  RBW 100 kHz VBW 300 kHz Mode Auto Sweep  M1[1]  M2[1]	7,41.dBm 2,480010 GHz - 53.77 dBm 2,483500 GHz	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480  RBW 100 kH2 VBW 300 kH2 Mode Auto Sweep  MI[1]  M2[1]  S  S  S  S  S  S  S  S  S  S  S  S  S	7,41 dBm 2,48010 GHz -53.77 dBm 2,483500 GHz	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480  RBW 100 kHz VBW 300 kHz Mode Auto Sweep  M1[1]  M2[1]	7,41.dBm 2,480010 GHz - 53.77 dBm 2,483500 GHz	
Date: 11.AUG.2021 00:29:51 DH' Ref Level 20.00 dBm Offset 15.24 dB « Att 20 dB SWT 1.1 ms « Count 300/300 ● 1Pk View 10 dBm P1 -10 dBm P1 -10 dBm P1 -20 dBm P1 -20 dBm P1 -20 dBm P1 -20 dBm P1 -30 dBm P1 -30 dBm P1 -50	1_Ant1_High_2480	7,41 dBm 2,48010 GHz -53.77 dBm 2,483500 GHz	
Date: 11.AUG.2021 00:29:51	1_Ant1_High_2480	7.41.dBm 2.480010 GHz -53.77 dBm 2.483500 GHz	
Date: 11.AUG.2021 00:29:51       Bate: 11.AUG.2021 00:29:51       BefLevel 20.00 dBm Offset 15:24 dB and 20.00	1_Ant1_High_2480	7.41.dBm 2.480010 GHz -53.77 dBm 2.483500 GHz	

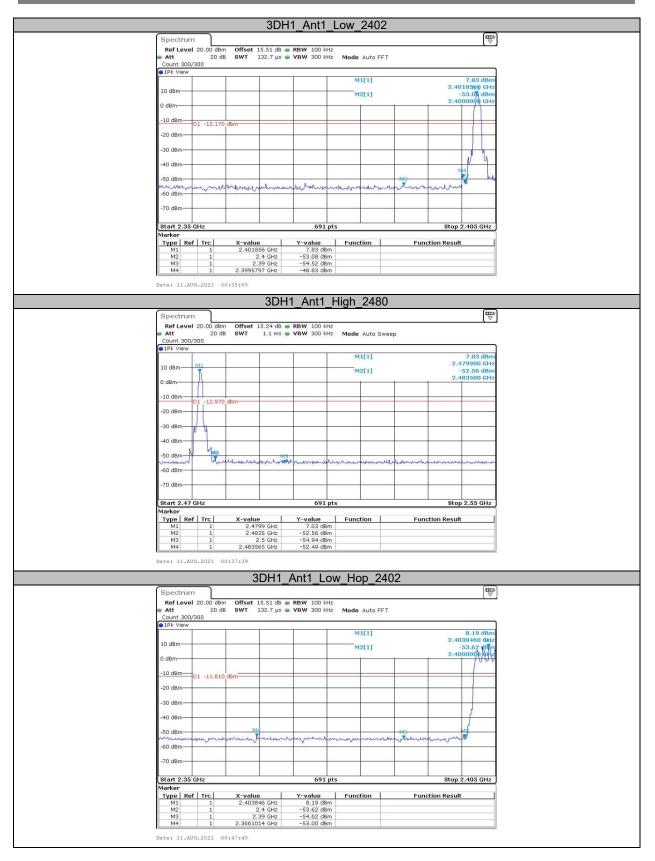
#### Report No.: SZ1210723-30705E-RF-00C



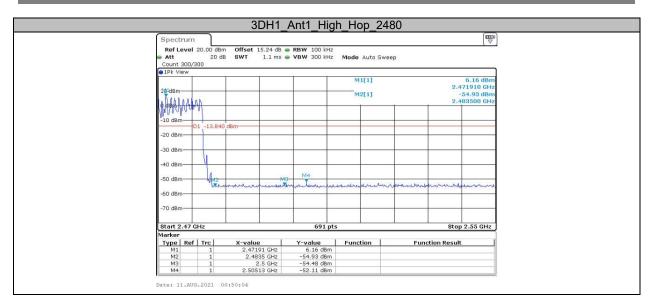
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#### Report No.: SZ1210723-30705E-RF-00C



#### Report No.: SZ1210723-30705E-RF-00C



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

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