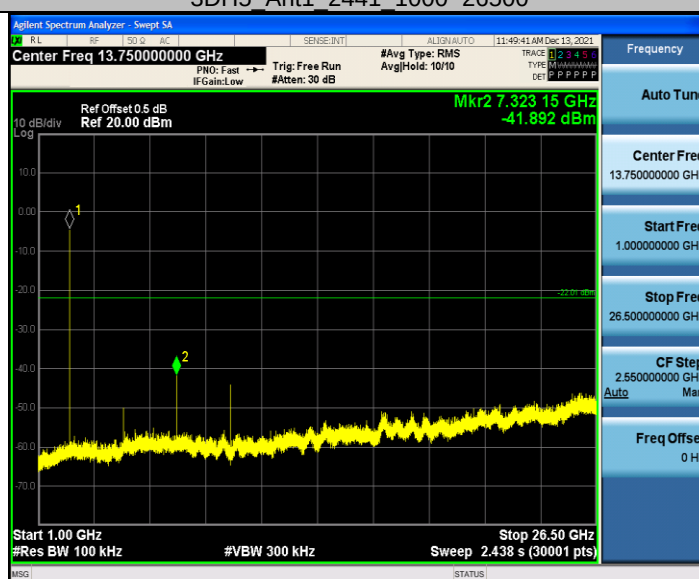
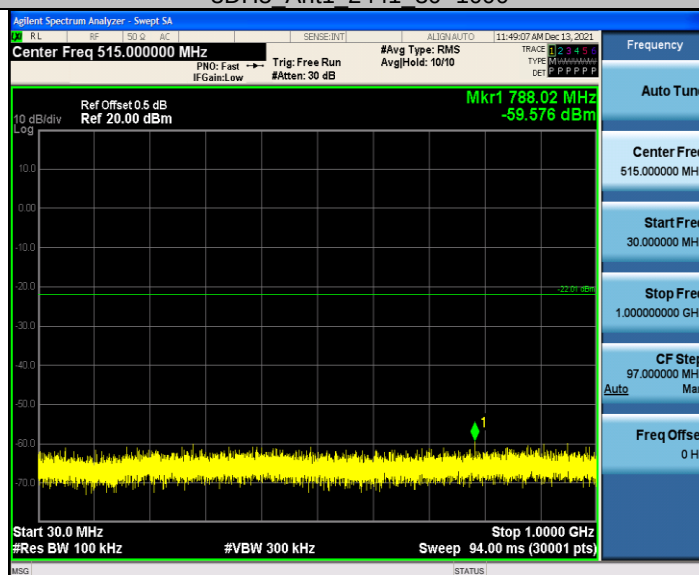
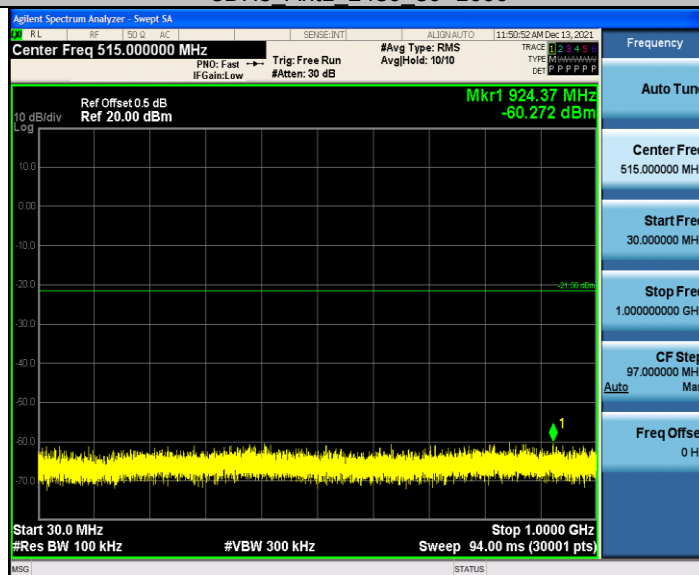


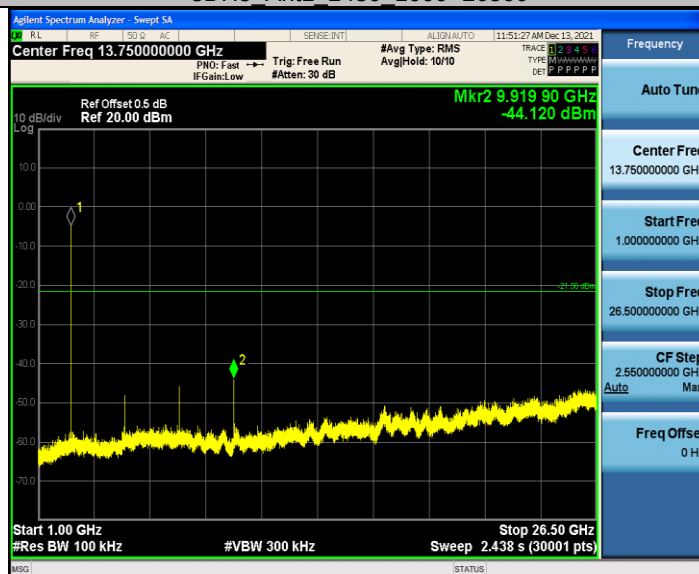




3DH5 Ant1 2480 30~1000



3DH5 Ant1 2480 1000~26500



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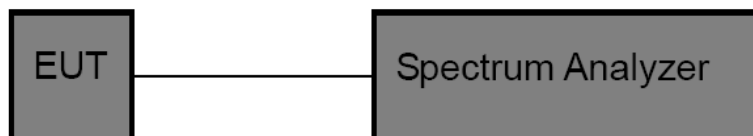


3.5. Bandwidth

Limit

N/A

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. OCB and 20dB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Results

Test Mode	Channel	Occupied Bandwidth (MHz)	20dB Bandwidth (MHz)	20dB Bandwidth *2/3 (kHz)
DH5	00	0.876	0.948	632.000
	39	0.881	0.951	634.000
	78	0.880	0.948	632.000
2DH5	00	1.181	1.254	836.000
	39	1.175	1.320	880.000
	78	1.172	1.257	838.000
3DH5	00	1.172	1.263	842.000
	39	1.160	1.278	852.000
	78	1.167	1.257	838.000



Occupied Bandwidth:



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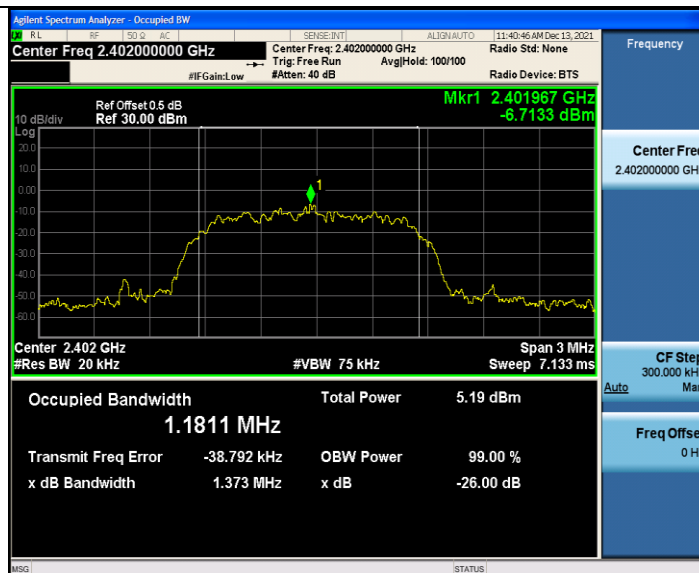
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

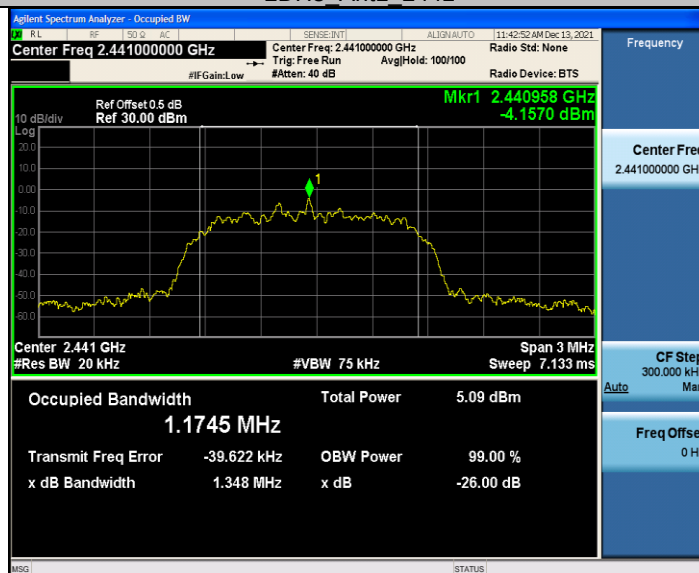
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2DH5 Ant1 2441



2DH5 Ant1 2480



3DH5 Ant1 2402

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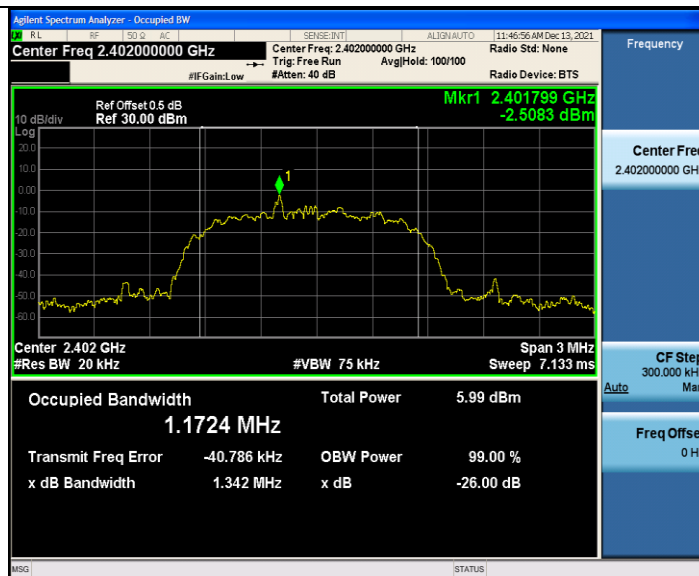
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

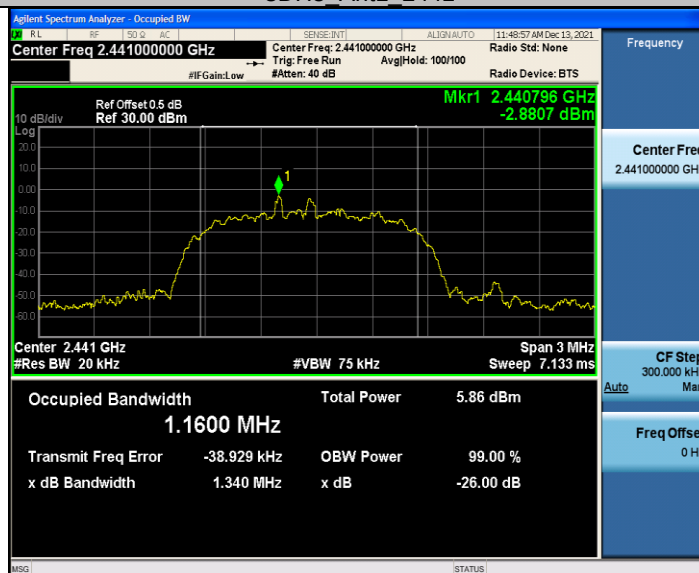
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3DH5 Ant1 2441



3DH5 Ant1 2480



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20dB Bandwidth:



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2DH5 Ant1 2441



2DH5 Ant1 2480



3DH5 Ant1 2402

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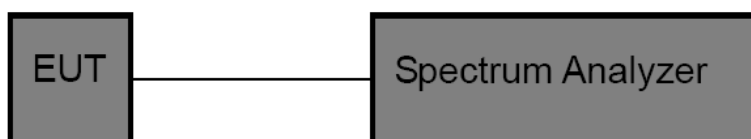
3.6. Channel Separation

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1)/ RSS-247 5.1 b :

Test Item	Limit	Frequency Range(MHz)
Channel Separation	>25KHz or >two-thirds of the 20 dB bandwidth Which is greater	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Test Mode

Please refer to the clause 2.4.

Test Results

Test Mode	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz)	Result
DH5	39	1.008	>634.000	Pass
2DH5	39	1.006	>880.000	Pass
3DH5	39	1.000	>852.000	Pass



Test plot as follows:



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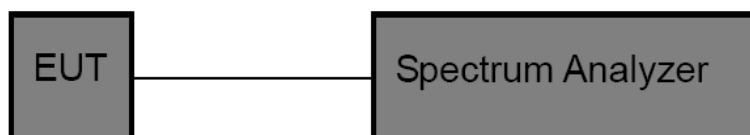
3.7. Number of Hopping Channel

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(iii)/ RSS-247 5.1 d:

Section	Test Item	Limit
15.247 (a)(iii)/ RSS-247 5.1 d:	Number of Hopping Channel	>15

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Peak Detector: RBW=100 kHz, VBW≥RBW, Sweep time= Auto.

Test Mode

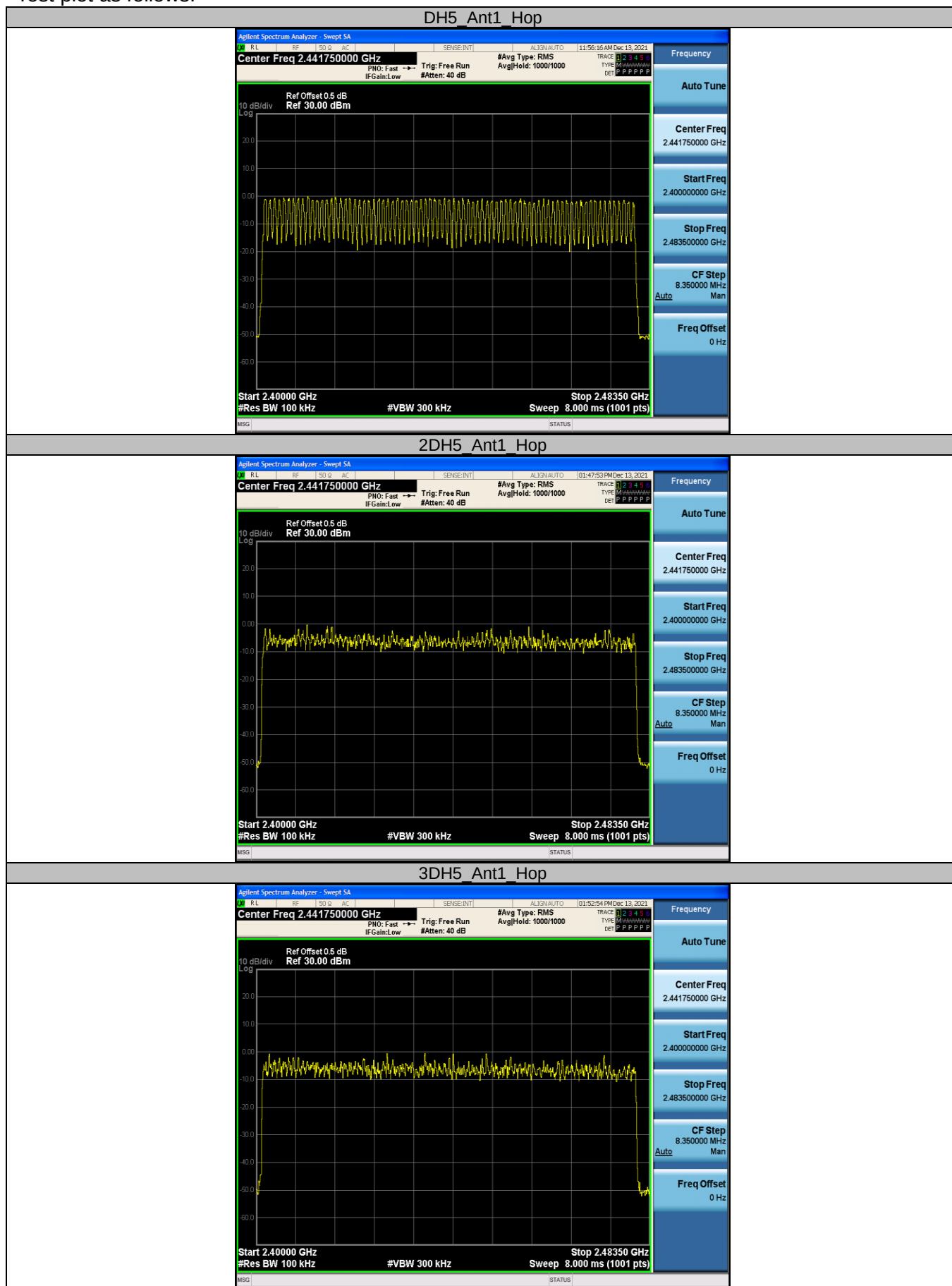
Please refer to the clause 2.4.

Test Result

Test Mode	Channel number	Limit	Result
DH5	79	>15.00	Pass
2DH5	79		
3DH5	79		



Test plot as follows:



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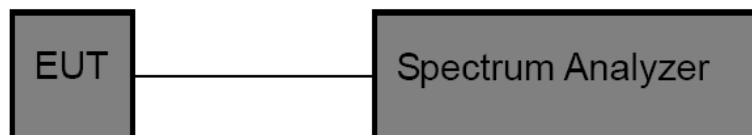
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3.8. Dwell Time

Limit

Section	Test Item	Limit
15.247(a)(iii)/ RSS-247 5.1 d	Average Time of Occupancy	0.4 sec

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Spectrum Setting: RBW=1MHz, VBW≥RBW.
 - (2) Use video trigger with the trigger level set to enable triggering only on full pulses.
 - (3) Sweep Time is more than once pulse time.
 - (4) Set the center frequency on any frequency would be measure and set the frequency span to zero.
 - (5) Measure the maximum time duration of one single pulse.
 - (6) Set the EUT for packet transmitting.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (ms)	Limit (Second)	Result
DH1	2441	0.37	118.40	31.60	<0.40	Pass
DH3	2441	1.62	259.20	31.60		
DH5	2441	2.87	306.13	31.60		
2DH1	2441	0.38	121.60	31.60	<0.40	Pass
2DH3	2441	1.63	260.80	31.60		
2DH5	2441	2.88	307.20	31.60		
3DH1	2441	0.38	121.60	31.60	<0.40	Pass
3DH3	2441	1.63	260.80	31.60		
3DH5	2441	2.88	307.20	31.60		

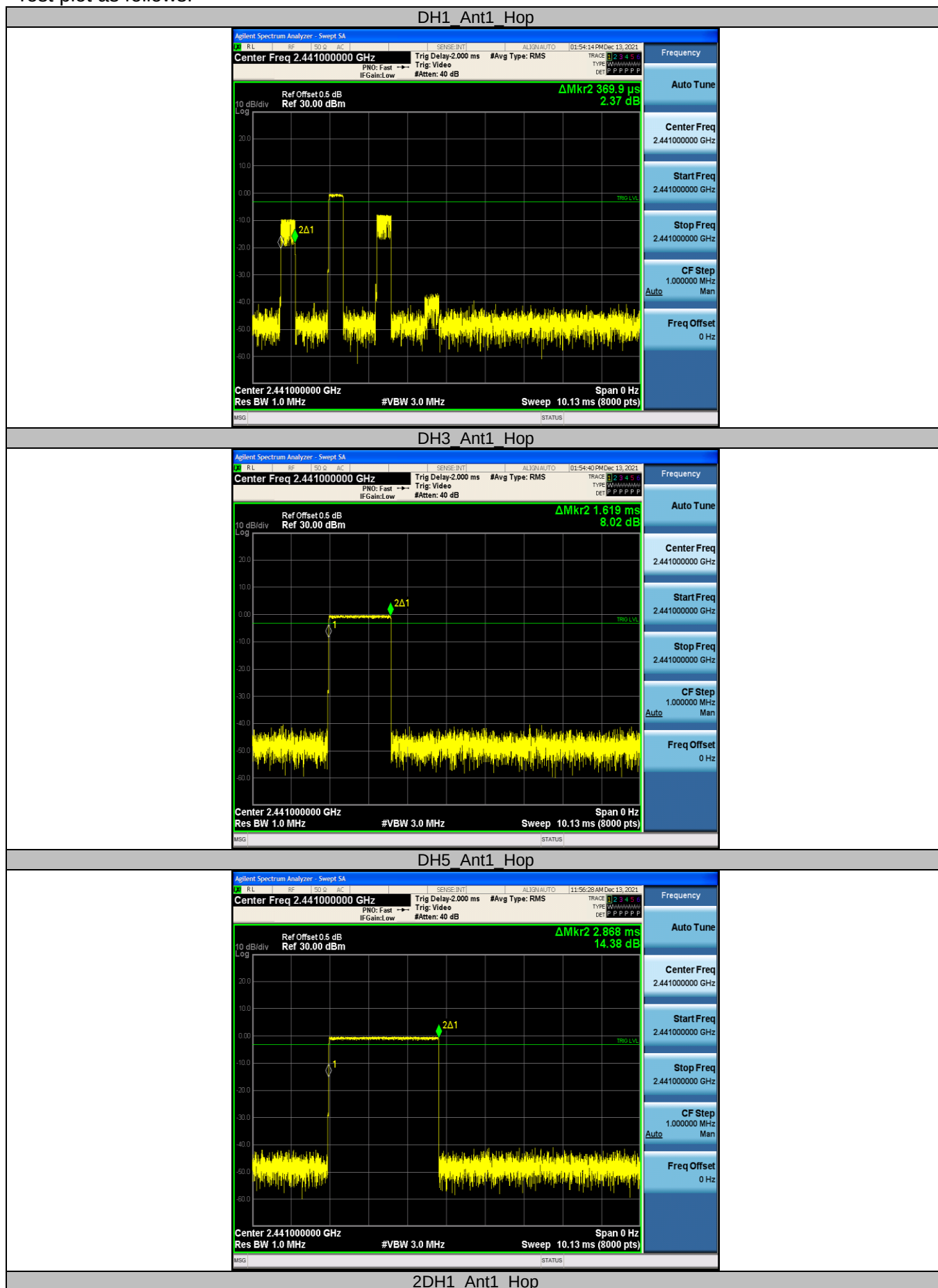
Note: 1DH1/2DH1/3DH1 Total of Dwell = Pulse Time*(1600/2)*31.6/79

1DH3/2DH3/3DH3 Total of Dwell = Pulse Time*(1600/4)*31.6/79

1DH5/2DH5/3DH5 Total of Dwell = Pulse Time*(1600/6)*31.6/79



Test plot as follows:



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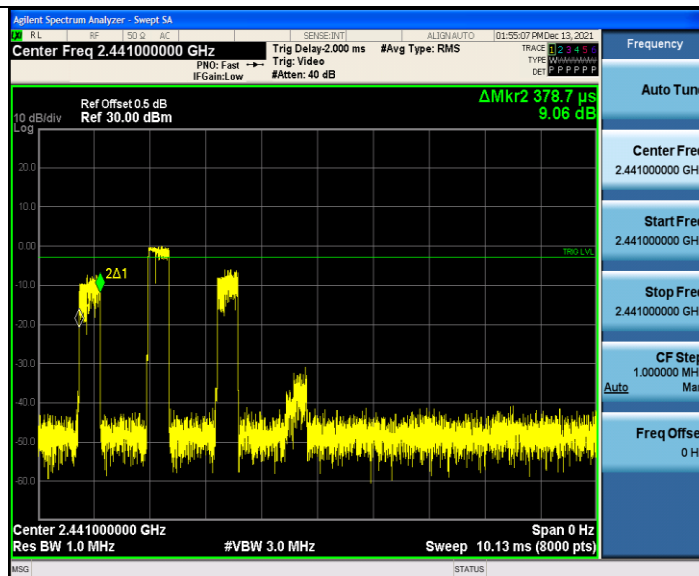
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

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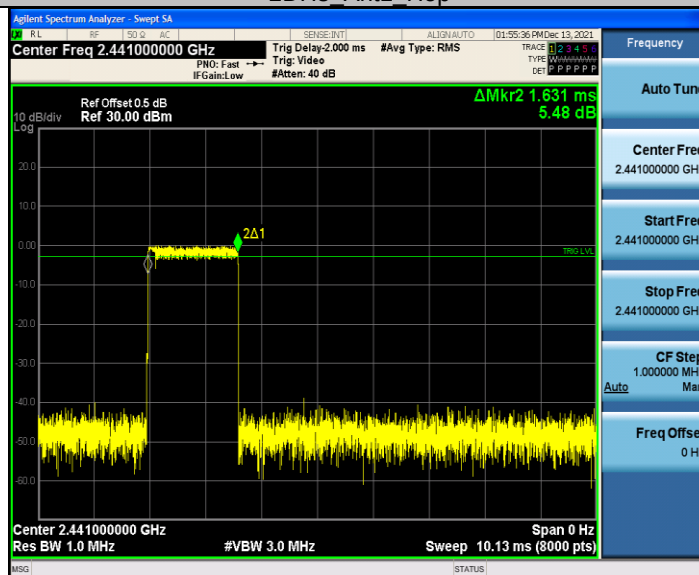
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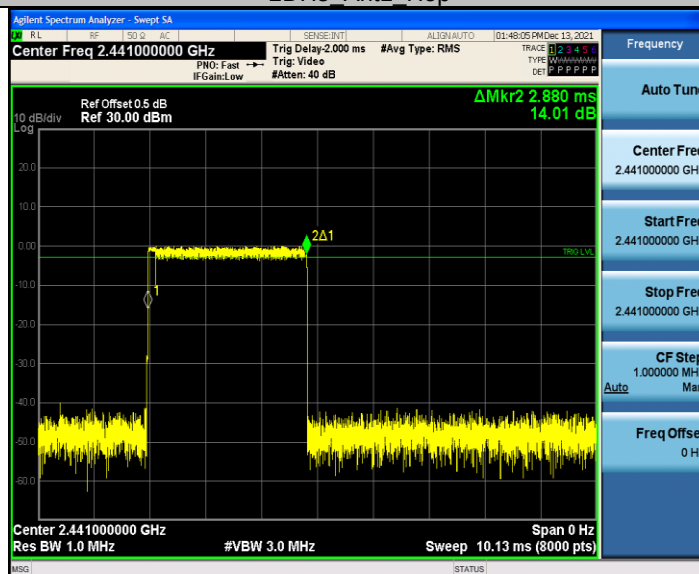
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2DH3_Ant1_Hop



2DH5_Ant1_Hop



3DH1_Ant1_Hop

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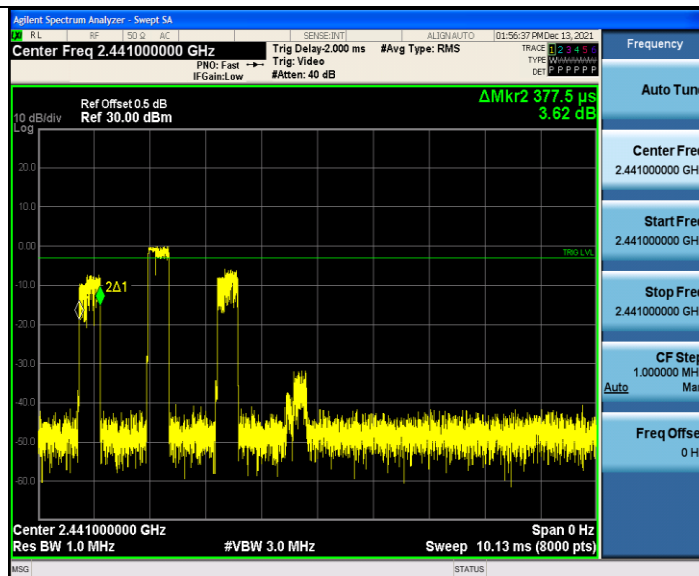
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

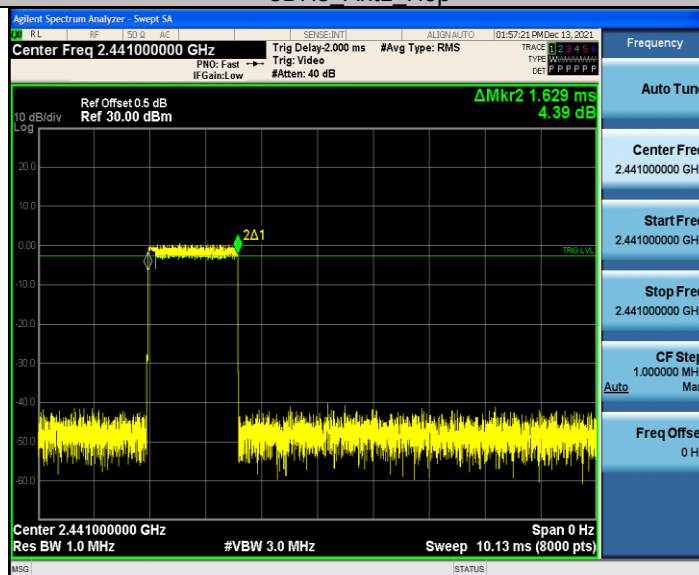
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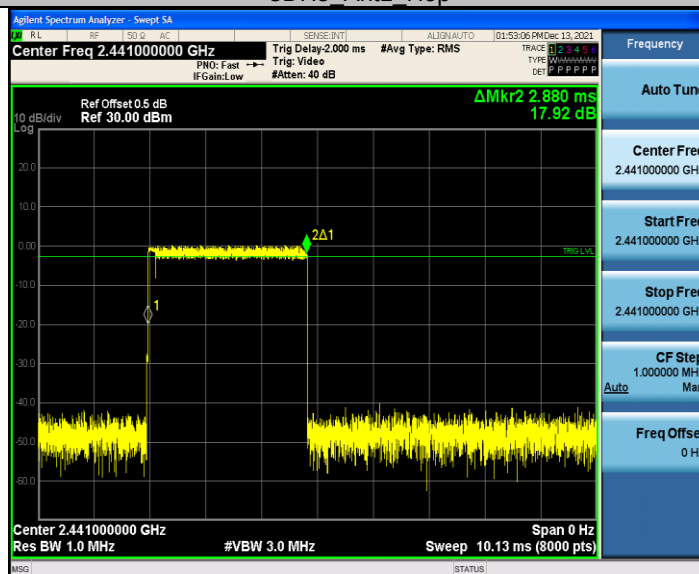
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3DH3 Ant1 Hop



3DH5 Ant1 Hop





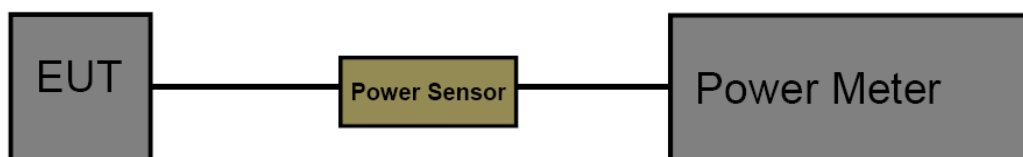
3.9. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(1) / RSS-247 5.4 b:

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	Hopping Channels>75 Power<1W(30dBm) Other <125mW(21dBm)	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband Peak RF power meter.
2. Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

Test Result

Test Mode	Channel	Output power (dBm)	Limit (dBm)	Result
DH5	00	0.39	< 21.00	Pass
	39	-0.22		
	78	-0.81		
2DH5	00	1.04	< 21.00	Pass
	39	0.50		
	78	-0.16		
3DH5	00	1.33	< 21.00	Pass
	39	0.76		
	78	0.10		



3.10. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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 antenna that uses a unique coupling to the intentional radiator, 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****