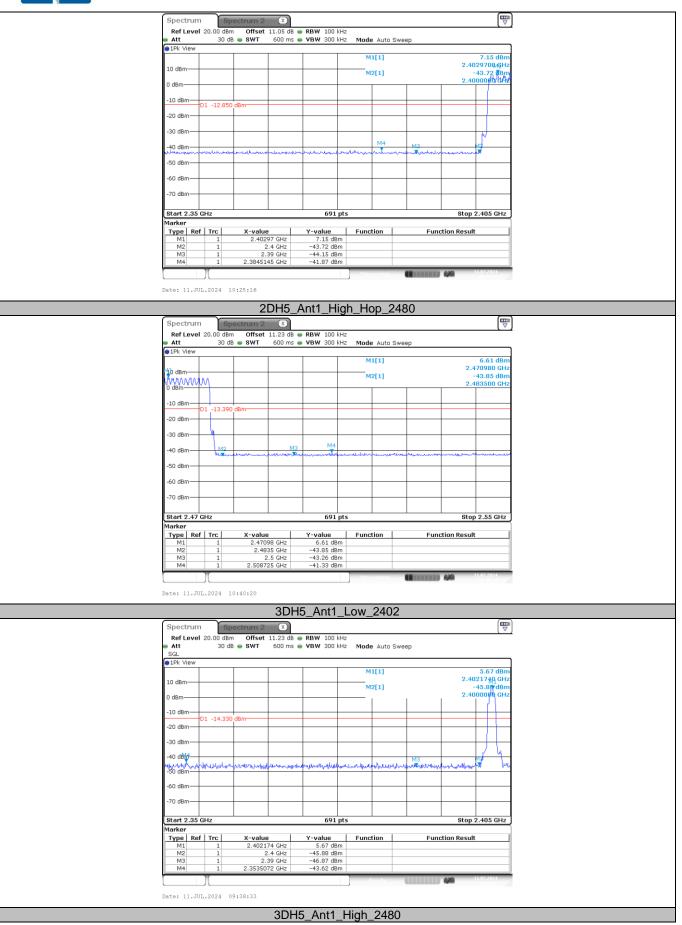


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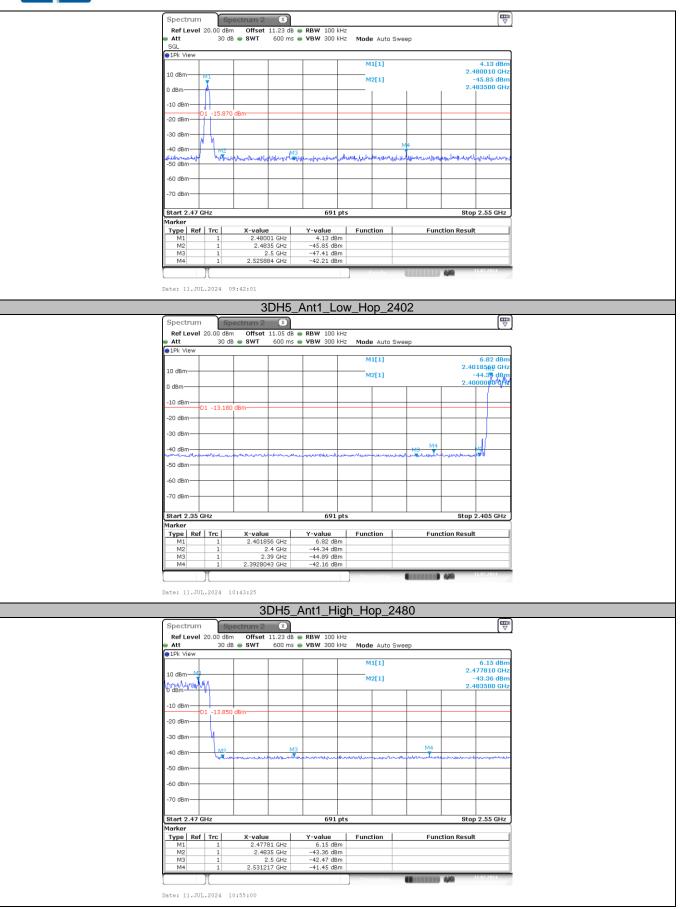




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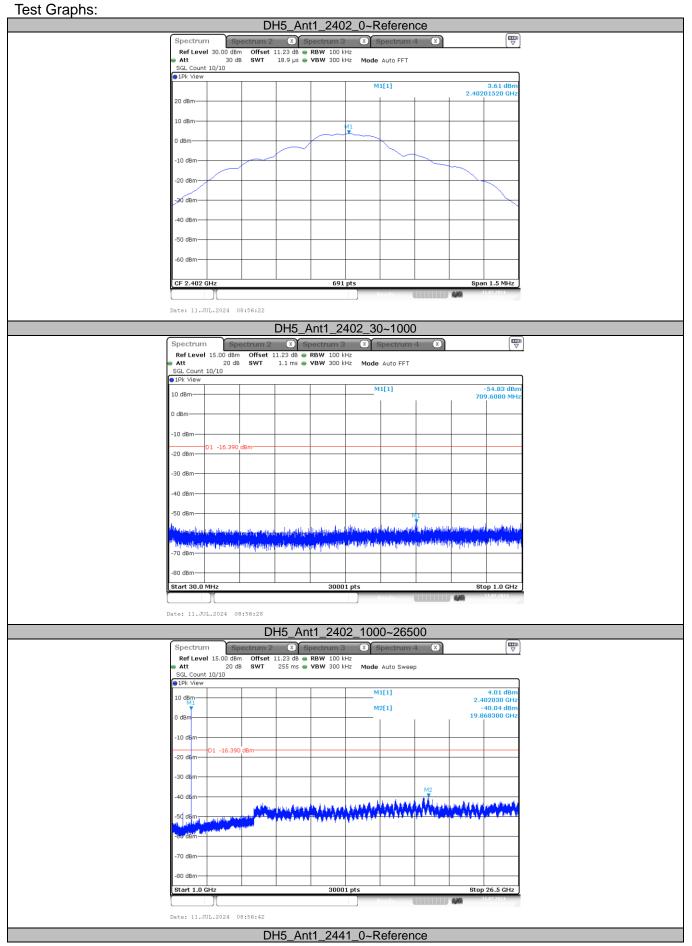
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# **Conducted Spurious Emission**

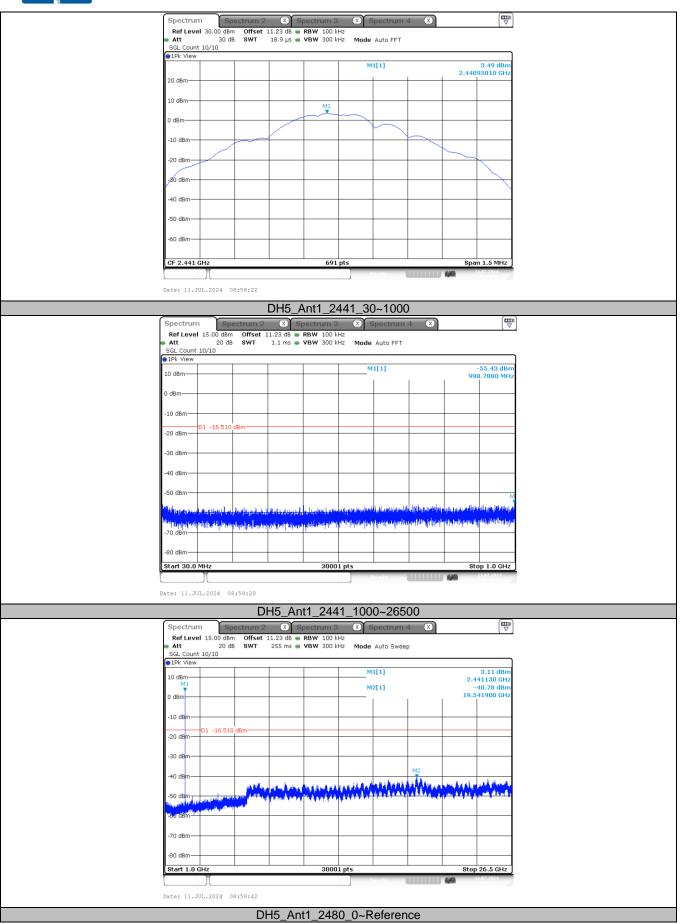
Test Mode	Antenna	Freq(MHz)	FreqRange	RefLevel	Result	Limit	Verdict
Test Mode	Anterina		[MHz]	[dBm]	[dBm]	[dBm]	
			Reference	3.61	3.61		PASS
		2402	30~1000	3.61	-54.83	≤-16.39	PASS
			1000~26500	3.61	-40.04	≤-16.39	PASS
			Reference	3.49	3.49		PASS
DH5	Ant1	2441	30~1000	3.49	-55.43	≤-16.51	PASS
			1000~26500	3.49	-40.78	≤-16.51	PASS
			Reference	2.92	2.92		PASS
		2480	30~1000	2.92	-56.07	≤-17.08	PASS
			1000~26500	2.92	-40.38	≤-17.08	PASS
			Reference	2.15	2.15		PASS
		2402	30~1000	2.15	-55.24	≤-17.85	PASS
			1000~26500	2.15	-39.34	≤-17.85	PASS
			Reference	0.76	0.76		PASS
2DH5	Ant1	2441	30~1000	0.76	-54.47	≤-19.24	PASS
			1000~26500	0.76	-39.91	≤-19.24	PASS
			Reference	0.91	0.91		PASS
		2480	30~1000	0.91	-55.72	≤-19.09	PASS
			1000~26500	0.91	-40.30	≤-19.09	PASS
			Reference	0.65	0.65		PASS
		2402	30~1000	0.65	-55.05	≤-19.35	PASS
			1000~26500	0.65	-39.73	≤-19.35	PASS
			Reference	3.70	3.70		PASS
3DH5	Ant1	2441	30~1000	3.70	-54.58	≤-16.30	PASS
			1000~26500	3.70	-40.87	≤-16.30	PASS
			Reference	1.09	1.09		PASS
		2480	30~1000	1.09	-54.58	≤-18.91	PASS
			1000~26500	1.09	-39.49	≤-18.91	PASS







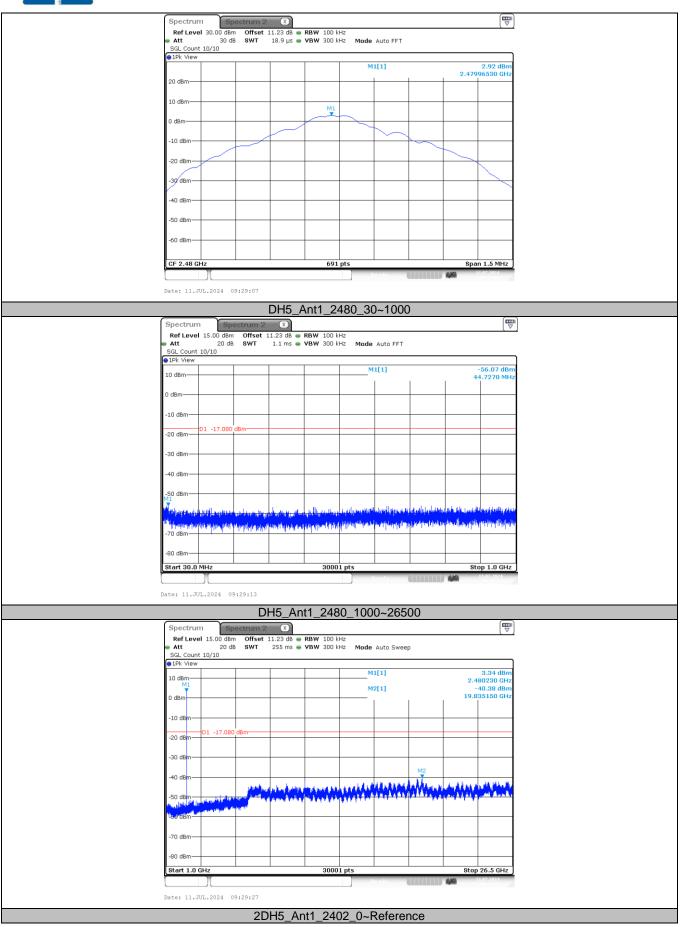




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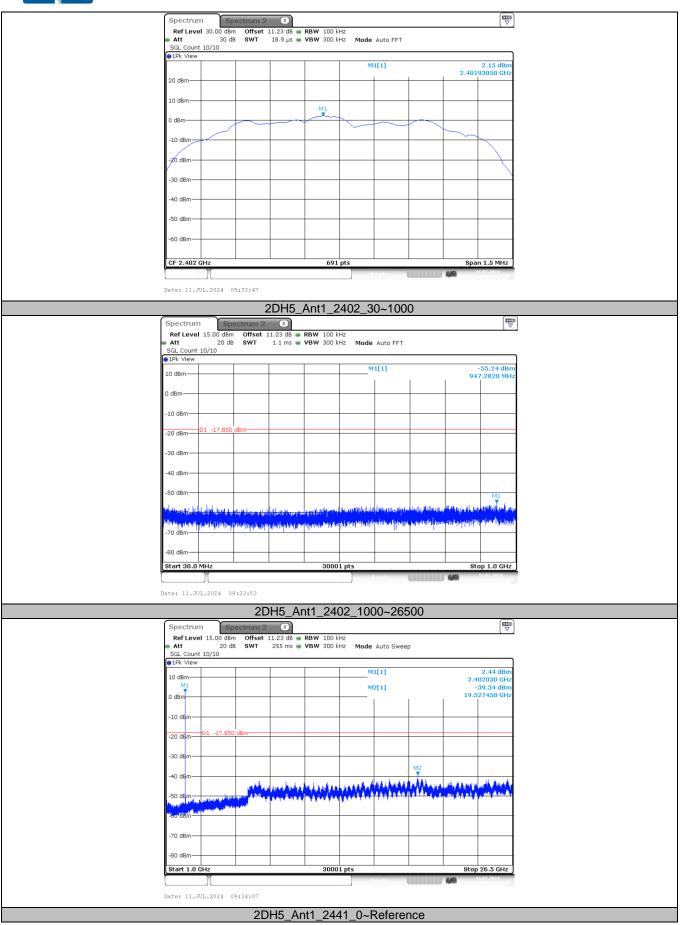




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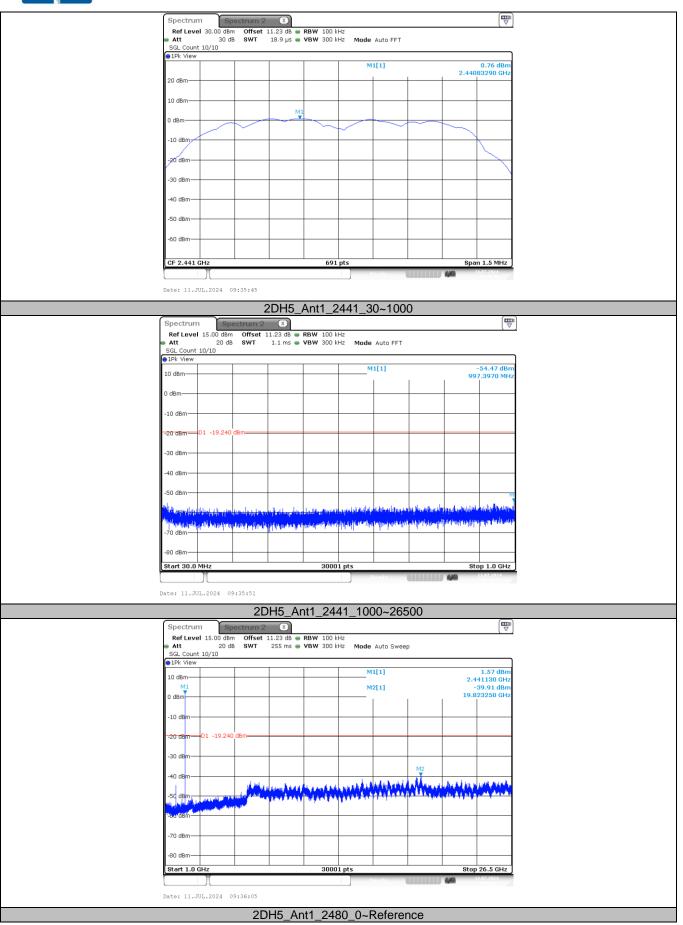




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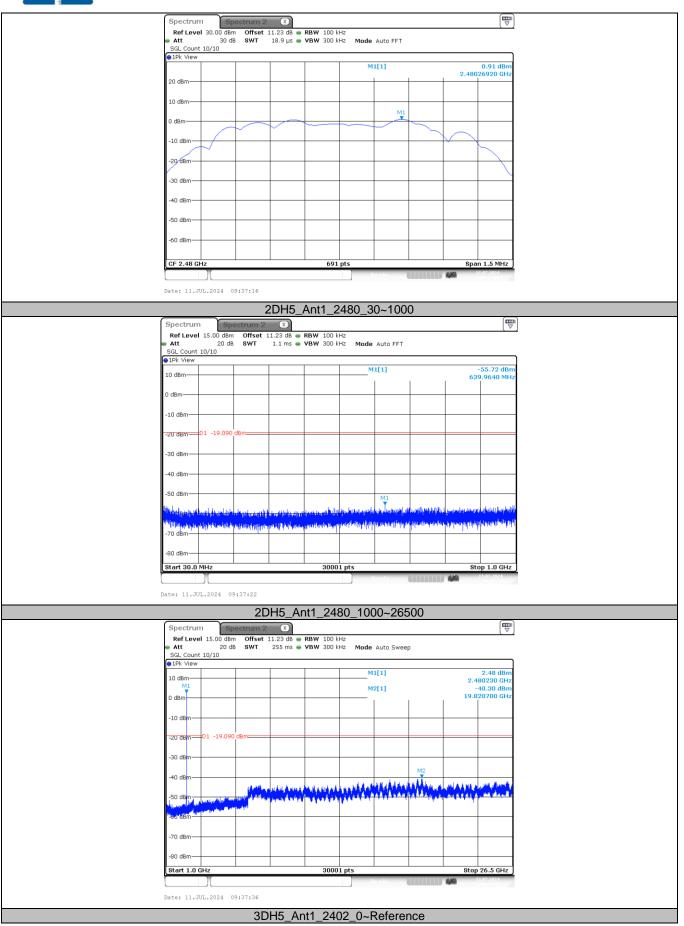




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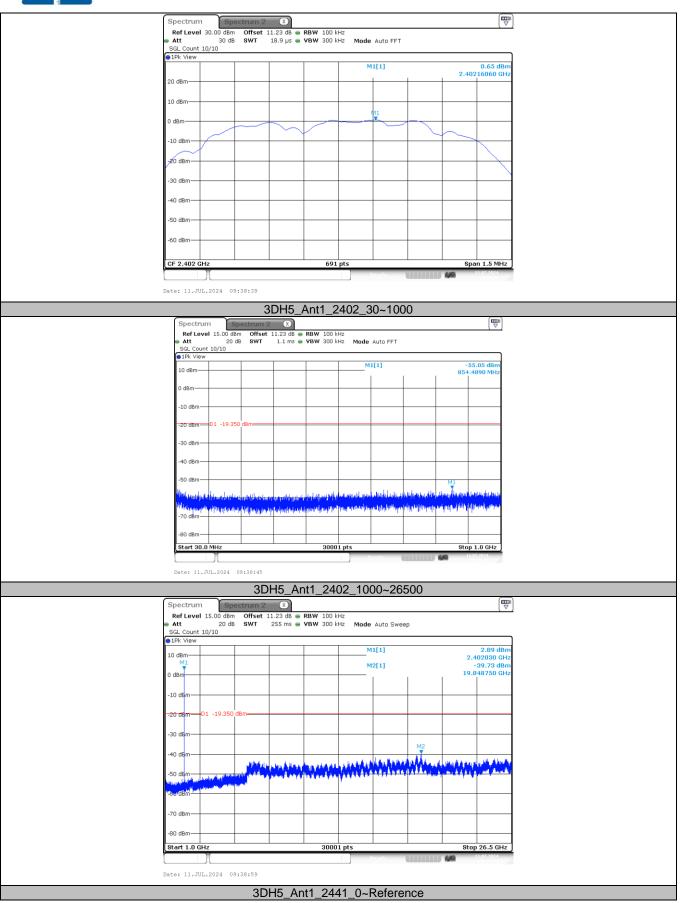




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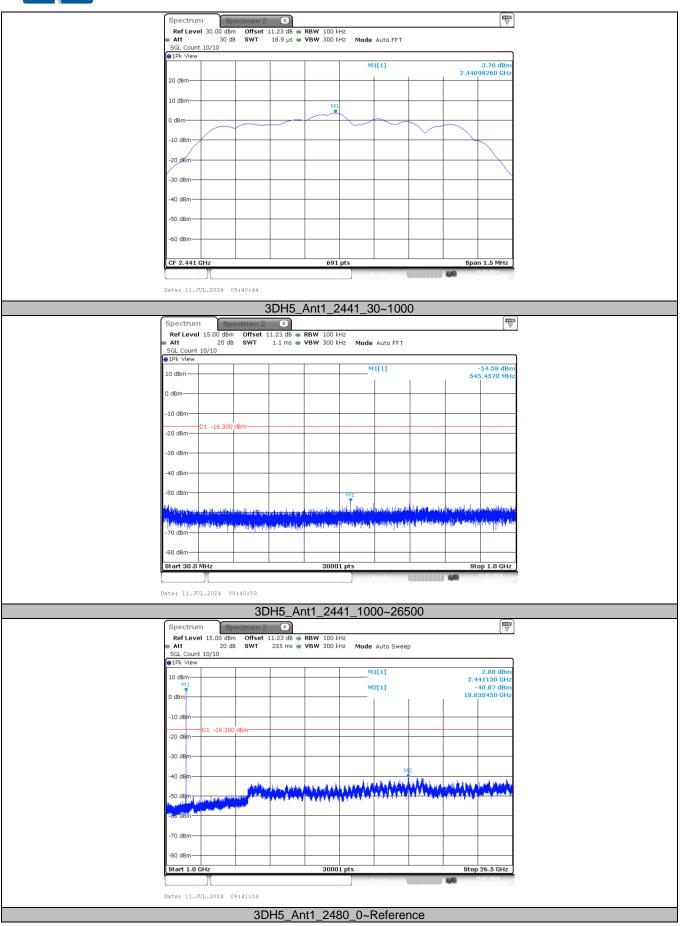




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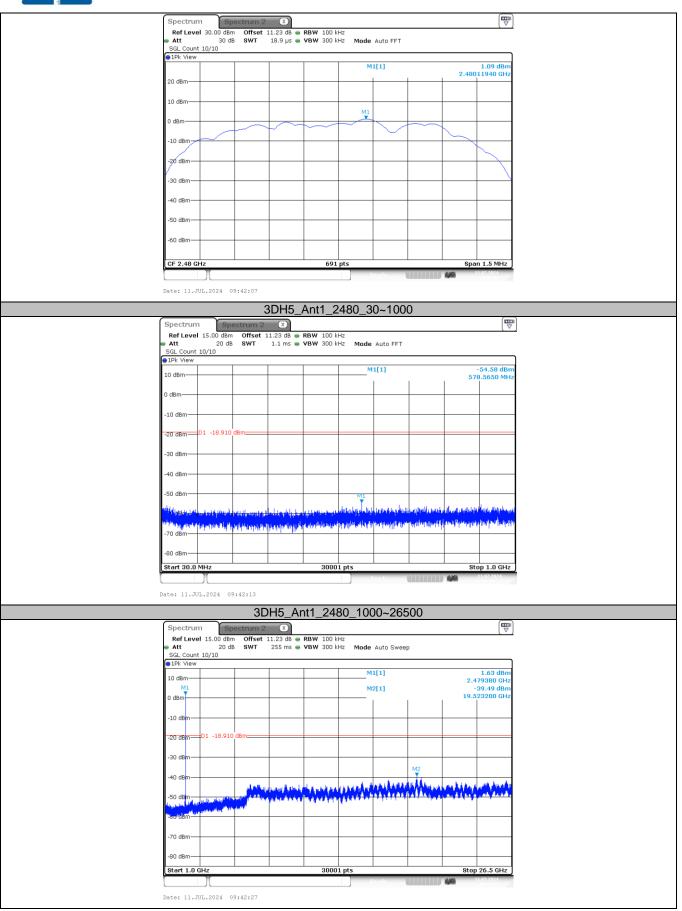




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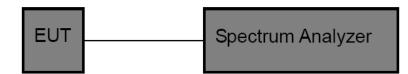


# 3.5. 20dB Bandwidth

<u>Limit</u>

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 =  $1\% \sim 5\%$  occupied bandwidth.
  - (2) Set the video bandwidth (VBW)  $\geq$  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 Result

Test Mode	Frequency (MHz)	99% Bandwidth (MHz)	20 dB Bandwidth (MHz)	20dB Bandwidth *2/3 (MHz)
	2402	0.908	0.960	0.640
DH5	2441	0.902	0.963	0.642
	2480	0.875	0.954	0.636
	2402	1.169	1.275	0.850
2DH5	2441	1.184	1.317	0.878
	2480	1.184	1.278	0.852
	2402	1.172	1.269	0.846
3DH5	2441	1.175	1.272	0.848
	2480	1.199	1.266	0.844

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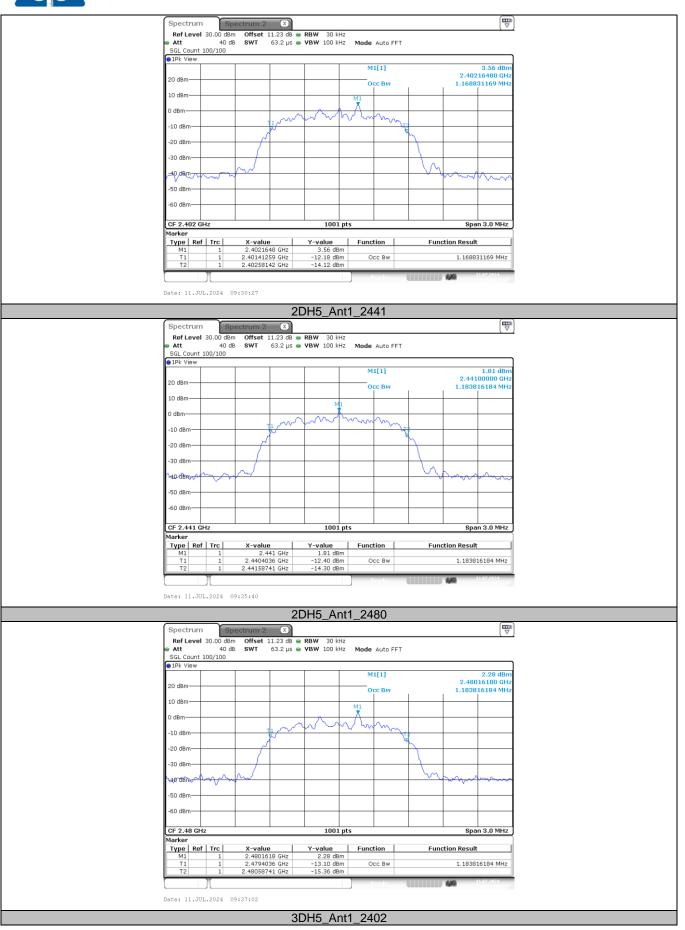


#### DH5\_Ant1\_2402 X X Spectrum Ref Level 30.00 dBm Offset 11.23 dB ■ RBW 30 kHz Att 40 dB SWT 63.2 μs ■ VBW 100 kHz Att Mode Auto FET SGL Coun 1Pk View Count 100/100 M1[1] 1.78 di 2.40205990 GH 20 dBm 908.091908092 kH Occ Bw 10 dBm 0 dBn N -10 dBr 5 Ň -20 dBm -30 dBr -40 dBm m -50 dBm -60 dB CF 2.402 GH 1001 pts Span 3.0 MHz X-value 2.4020599 GHz 2.40155045 GHz 2.40245854 GHz Y-value 1.78 dBm -14.83 dBm -16.02 dBm Type Ref Trc Function Function Result Occ Bw 908.091908092 kHz Date: 11.JUL.2024 08:49:13 DH5\_Ant1\_2441 X Spectrum 3 X Spectrum Spectrum 2 Ref Level 30.00 dBm Offset 11.23 dB RBW 30 kHz Att 40 dB SWT 63.2 µs VBW 100 kHz Mode Auto FFT SGL Count 100/100 ∋1Pk Vi M1[1] 1.23 dBi 2.44105690 GH 20 dBm Occ Bw 902.097902098 kH 10 dBm 0 dBr -10 dB -20 dB -30 dBr 40 dBm m -50 dBm -60 dBm CF 2.441 1001 pts Span 3.0 MH larke Y-value 1.23 dBm -15.47 dBm -17.35 dBm Type Ref Trc Function Result X-value 2.4410569 GHz Function 2.44055045 GHz 2.44145255 GHz Occ Bw 902.097902098 kHz Date: 11.JUL.2024 08:58:17 DH5\_Ant1\_2480 X Spectrum Spe Ref Level 30.00 dBm 0 dBm Offset 11.23 dB 👄 RBW 30 kHz 40 dB SWT 63.2 µs 👄 VBW 100 kHz Att 40 SGL Count 100/100 Mode Auto FFT 1.37 dBn 2.47999400 GH 875.124875125 kH M1[1] 20 dBrr Occ Bw 10 dBm 0 dBr M -10 dB -20 dB -30 dBm -40 dBm -50 dBm -60 dBm Span 3.0 MHz CF 2.48 GH 1001 pts X-value 2.479994 GHz 2.47955644 GHz 2.48043157 GHz Y-value 1.37 dBm -15.52 dBm -17.94 dBm Type Ref Trc Function Function Result Occ Bw 875.124875125 kHz Date: 11.JUL.2024 09:25:30 2DH5\_Ant1\_2402

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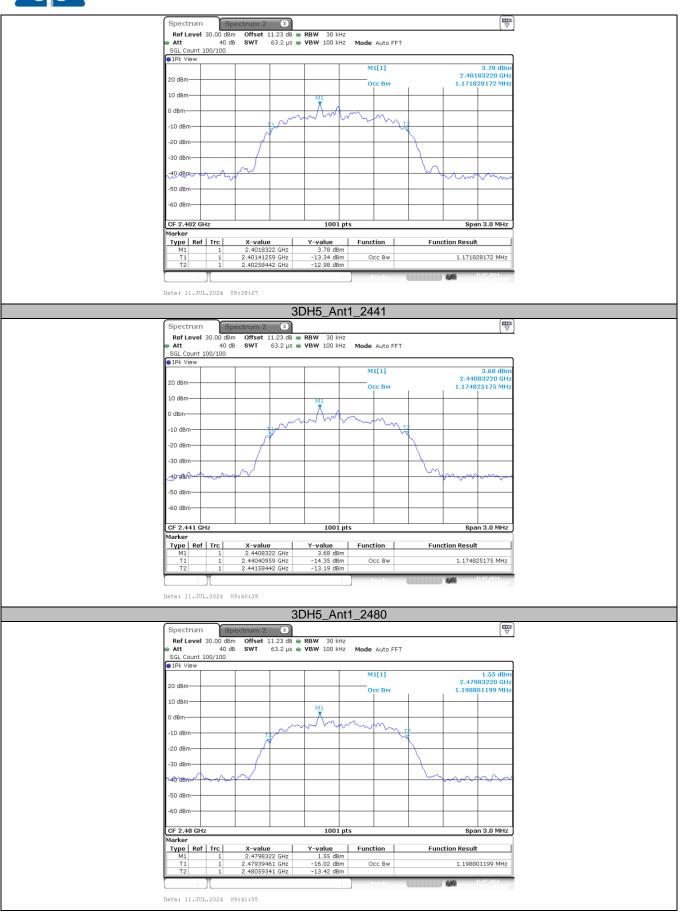




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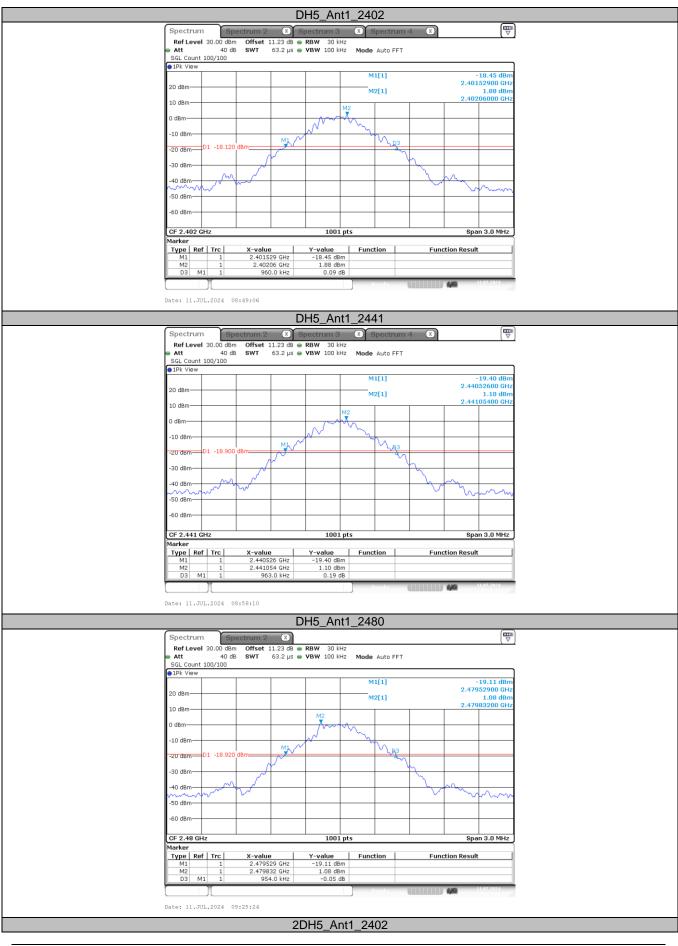




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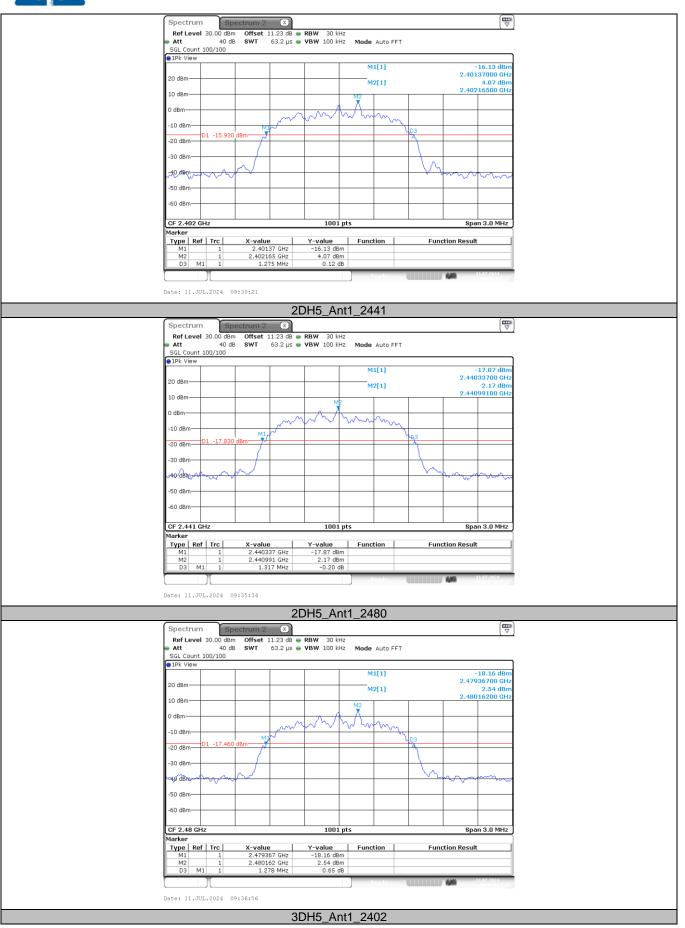
#### 20dB Bandwidth:



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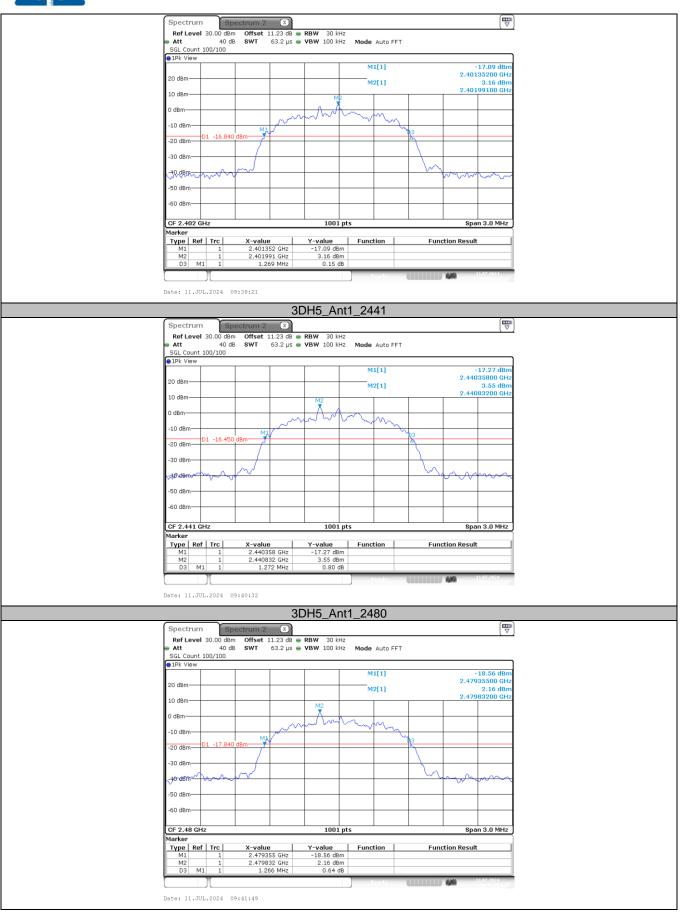




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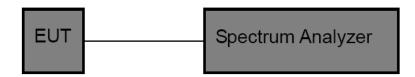
# 3.6. Channel Separation

<u>Limit</u>

# 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)  $\ge$  3 RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.

### Test Mode

Please refer to the clause 2.4.

### Test Result

Test Mode	Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
DH5	Нор	1.006	≥0.642	PASS
2DH5	Нор	1.000	≥0.878	PASS
3DH5	Нор	0.997	≥0.848	PASS

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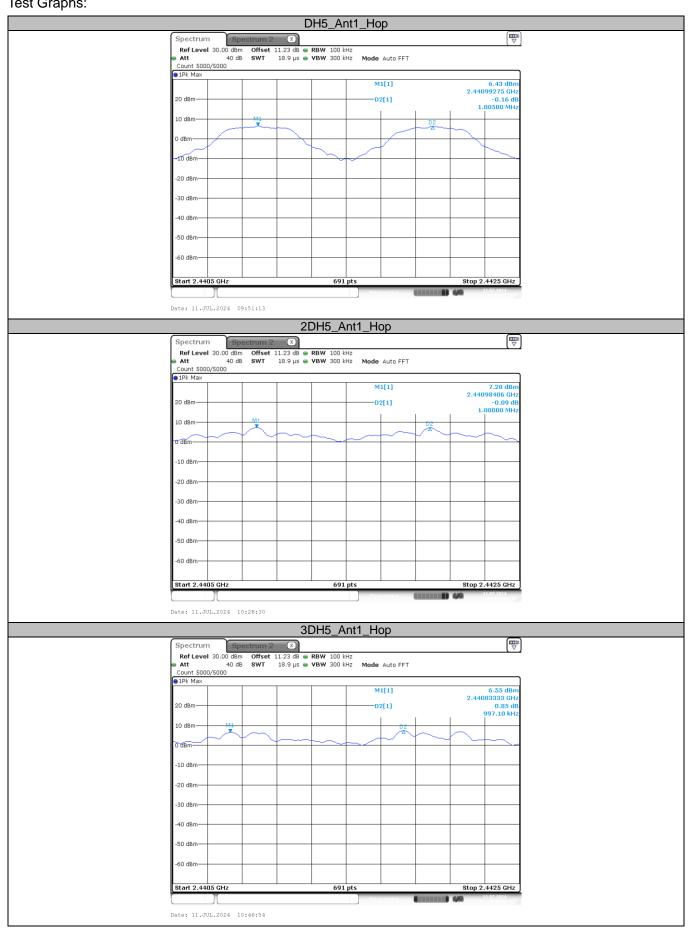
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# 3.7. Number of Hopping Channel

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**

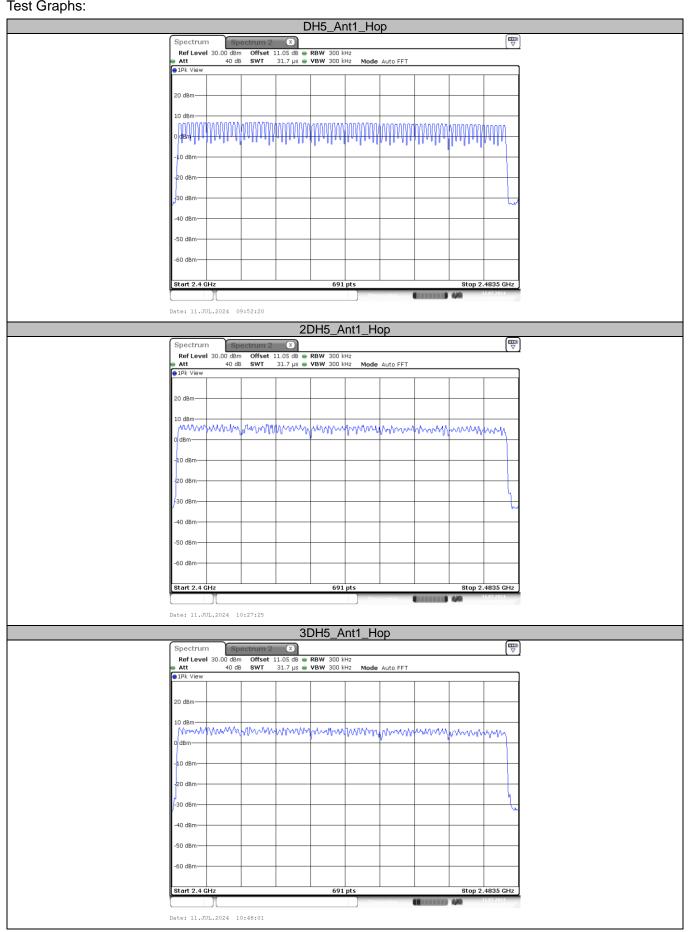
Test Mode	Frequency (MHz)	Result [Num]	Limit [Num]	Verdict
DH5	Нор	79	≥15	PASS
2DH5	Нор	79	≥15	PASS
3DH5	Нор	79	≥15	PASS

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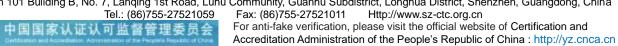






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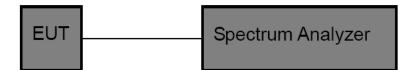
#### **Dwell Time** 3.8.

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	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**

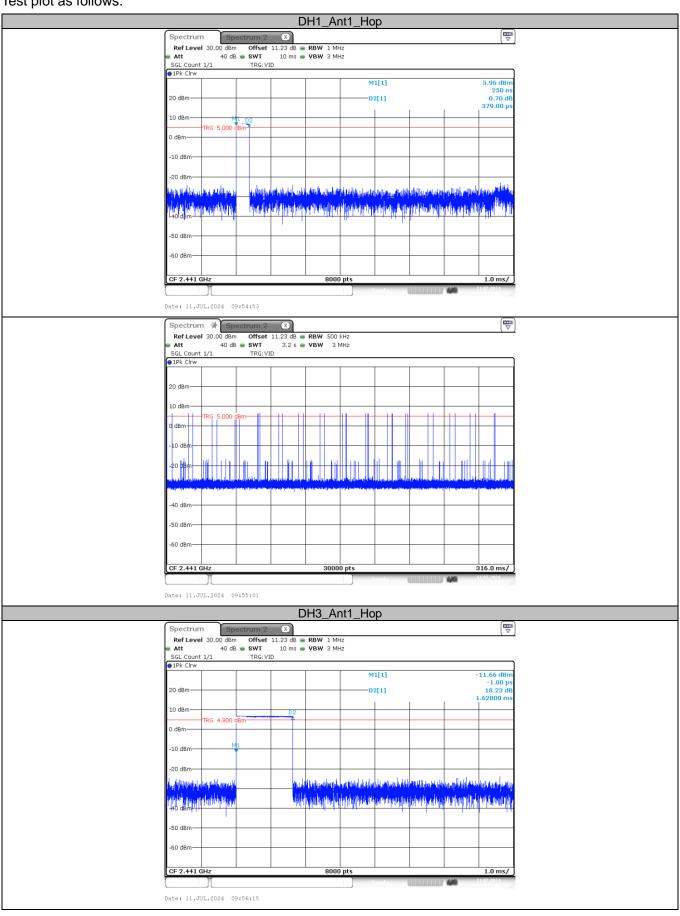
Modulation	Packet	Freq(MHz)	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (s)	Limit (s)	Result
	DH1	Нор	0.379	320	0.121	≤0.4	PASS
GFSK	DH3	Нор	1.628	160	0.260	≤0.4	PASS
	DH5	Нор	2.868	120	0.344	≤0.4	PASS
	2-DH1	Нор	0.388	330	0.128	≤0.4	PASS
π/4DQPSK	2-DH3	Нор	1.633	170	0.278	≤0.4	PASS
	2-DH5	Нор	2.873	80	0.230	≤0.4	PASS
	3-DH1	Нор	0.388	330	0.128	≤0.4	PASS
8DPSK	3-DH3	Нор	1.631	180	0.294	≤0.4	PASS
	3-DH5	Нор	2.875	80	0.230	≤0.4	PASS

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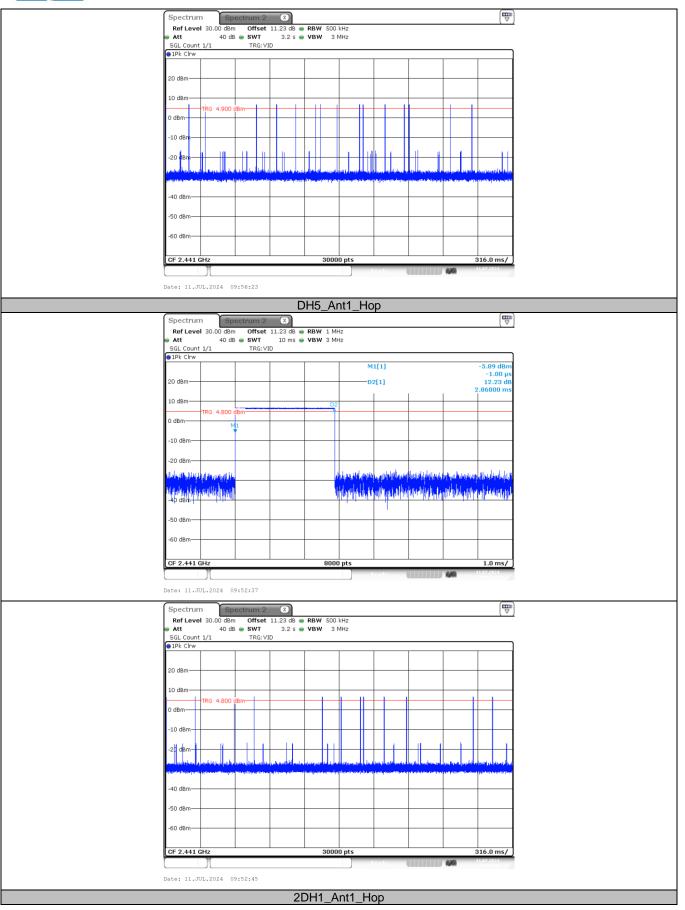






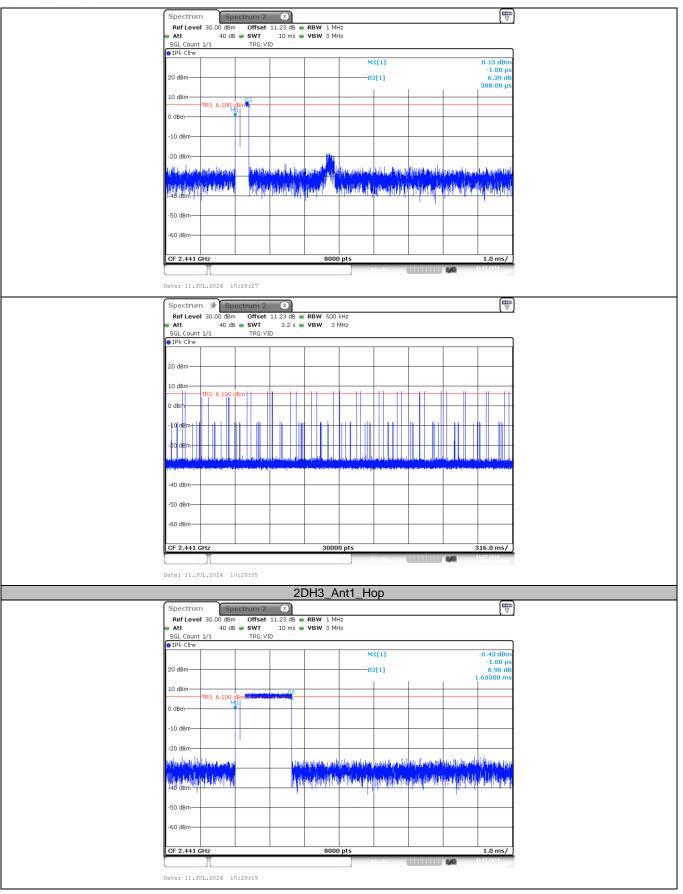
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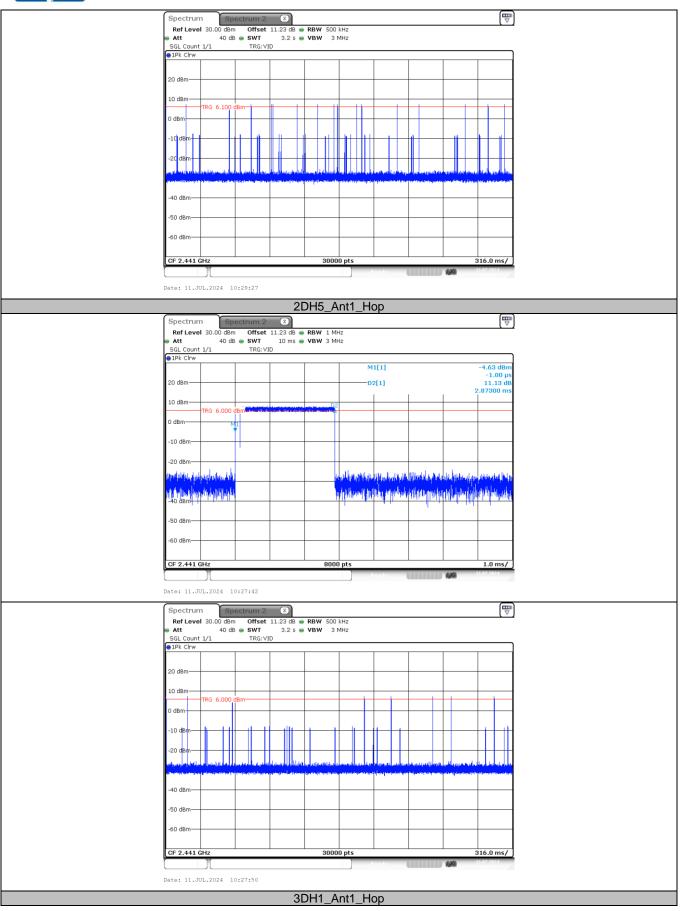
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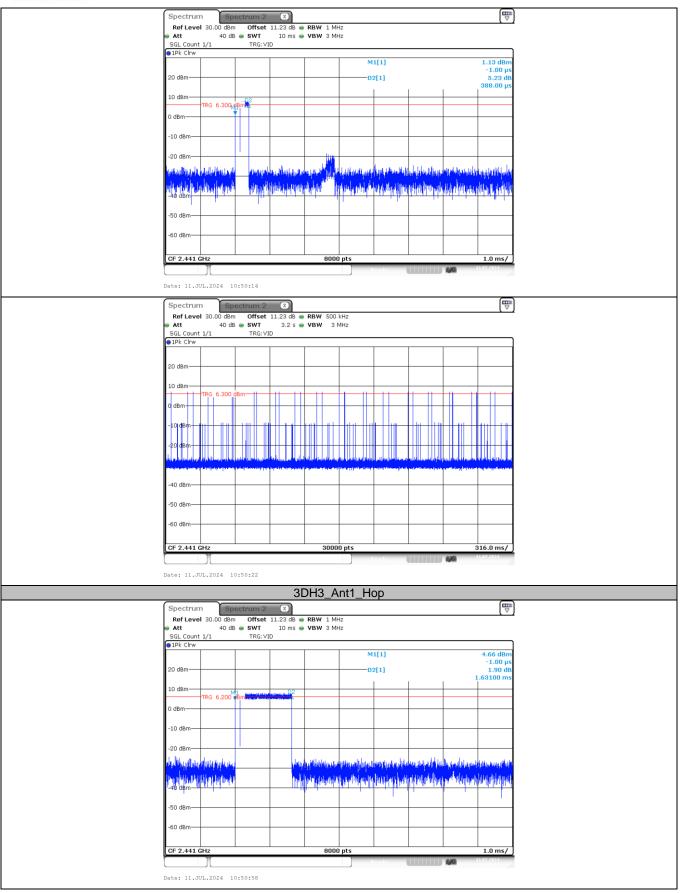
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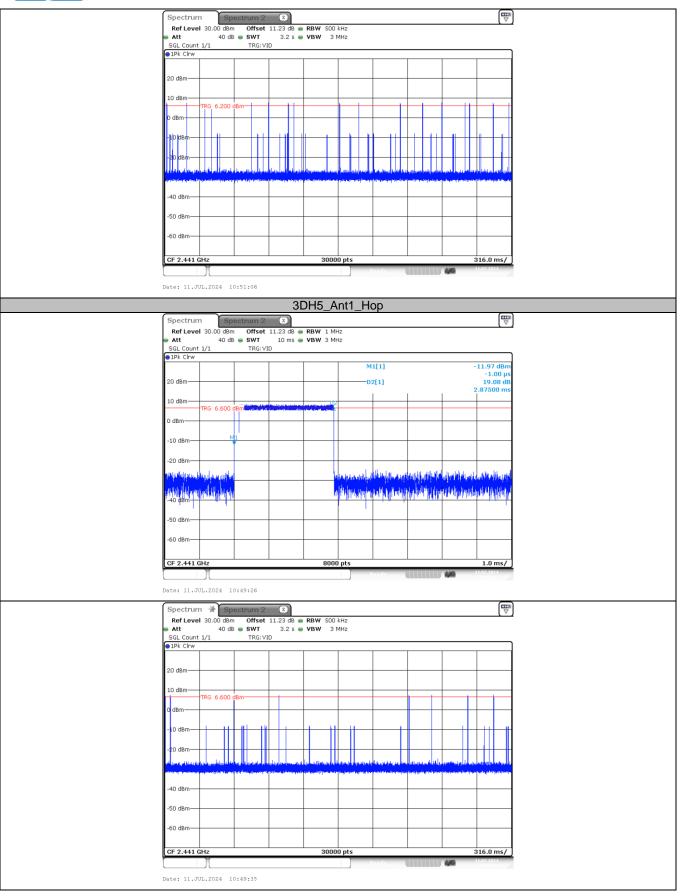
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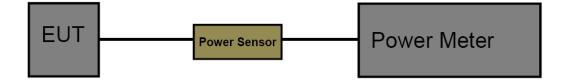
#### **Peak Output Power** 3.9.

Limit

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

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(1)	Maximum Conducted Output Power	Hopping Channels≥75, Power <1W(30dBm); Others <125mW(21dBm)	2400~2483.5
ISED RSS-247 5.4 b	EIRP	4 Watt or 36dBm	2400~2483.5

# **Test Configuration**



# **Test Procedure**

- 1. The maximum conducted output power may be measured using a broadband Peak RF power meter.
- Peak power measurements were performed only when the EUT was transmitting at its maximum 2. 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. Record the measurement data.

# **Test Mode**

Please refer to the clause 2.4.

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### Test Result

Test Mode	Frequency(MHz)	Peak Output Power[dBm]	Limit[dBm]	Verdict
	2402	6.06	≤30	PASS
DH5	2441	5.82	≤30	PASS
	2480	4.81	≤30	PASS
	2402	9.86	≤30	PASS
2DH5	2441	9.45	≤30	PASS
	2480	8.29	≤30	PASS
	2402	10.24	≤30	PASS
3DH5	2441	9.47	≤30	PASS
	2480	8.18	≤30	PASS

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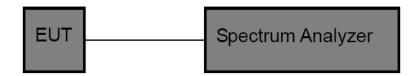


# 3.10. Duty Cycle

# <u>Limit</u>

None, for report purposes only.

# **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. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.

3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 10MHz.
Set the VBW to 10MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

# Test Mode

Please refer to the clause 2.4.

### Test Result

Test Mode	Freq(MHz)	ON Time [ms]	Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
	2402	2.89	3.73	77.48	0.35	1
DH5	2441	2.89	3.73	77.48	0.35	1
	2480	2.89	3.73	77.48	0.35	1
	2402	2.90	3.74	77.54	0.34	1
2DH5	2441	2.89	3.74	77.27	0.35	1
	2480	2.90	3.74	77.54	0.34	1
	2402	2.89	3.74	77.27	0.35	1
3DH5	2441	2.89	3.73	77.48	0.35	1
	2480	2.89	3.75	77.07	0.35	1

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Spectrum Spectrum 2	
RefLevel 15.00 dBm Offset 11.23 dB 🖷 RBW 10 MHz	
● Att 20 dB ● SWT 7 ms ● VBW 10 MHz	
SGL Count 1/1 TRG: VID  P1Pk Cirw	
MIT1	-34.06 dBm
0 dBm TRG 1.900 dBm D1[1]	0.99 dB 2.90000 ms
	2.9000 ms
-10 dBm	
-20 dBm	
-30 dBm <sup>4</sup>	
Party and the second	
-40 dBm	
-50 dBm	
-60 dBm	
-70 dBm	
00 d0-	
-90 dBm	
CF 2.402 GHz 1001 pts Marker	700.0 μs/
Type Ref Trc X-value Y-value Function Function Re	sult
M1 1 -1.43 ms -34.06 dBm	
D1         M1         1         2.9 ms         0.99 dB           D2         M1         1         3.74 ms         40.33 dB	
	11.07.2024
Date: 11.JUL.2024 09:30:13	
2DH5_Ant1_2441	
Spectrum Spectrum 2 X	
RefLevel 15.00 dBm Offset 11.23 dB  RBW 10 MHz	
● Att 20 dB ● SWT 7 ms ● VBW 10 MHz SGL Count 1/1 TRG:VID	
SGL Count 1/1     IRG: VID     PIPK Cirw	
MI[1]	5.97 dBm
D dBm TRG 1.500 dBm	
-10 dBm	
-20 dBm	
-30 dBm www.maturew	
-40 dBm	
-50 dBm	
60 dBm	
-60 dBm	
-70 dBm	
-80 dBm	
CF 2.441 GHz 1001 pts	700.0 μs/
Marker	
Type Ref Trc X-value Y-value Function Function Re	sult
M1         1         -300.0 μs         5.97 dBm           D1         M1         1         2.89 ms         -0.20 dB	
D2         M1         1         2.05 ms         0.02 dB           D2         M1         1         3.74 ms         0.02 dB	
Ready Adda	11.07.2024
Deter 11 TH 2024 OB-25-26	
Date: 11.JUL.2024 09:35:26	
 2DH5_Ant1_2480	
Spectrum 2 X	
Ref Level 15.00 dBm Offset 11.23 dB . RBW 10 MHz	
Ref Level         15.00         Offset         11.23         B         RBW         10         MHz           Att         20         dB         SWT         7         ms         VBW         10         MHz           SGL Count         1/1         TRG: VID         TRG: VID         TRG: VID         TRG: VID	
Ref Level         15.00         dBm         Offset         11.23         dB         RBW         10         MHz           Att         20         dB         SWT         7         ms         VBW         10         MHz           SGL         Count         1/1         TRG: VID         TRG: VID         TRG: VID           IPk         Cirw         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X	
Ref Level         15.00         Offset         11.23         B         RBW         10         MHz           Att         20         dB         SWT         7         ms         VBW         10         MHz           SGL Count         1/1         TRG: VID         TRG: VID         TRG: VID         TRG: VID	-33.24 dBm
Ref Level         15.00         Offset         11.23         db         RBW         10         MHz           Att         20         db         SWT         7         ms         VBW         10         MHz           SGL         Count         1/1         TRG: VID         MHz         10         MHz           1Pk         Cirw	-33.24 dBm 1.15000 ms _1.35 db
Ref Level         15.00         dBm         Offset         11.23         dB         RBW         10         MHz           Att         20         dB         SWT         7         ms         VBW         10         MHz           SGL Count         1/1         TRG: VID         TRG         DIR         TRG         DIR         TRG         DIR	-33.24 dBm 1.15000 ms
Ref Level         15.00         Offset         11.23         db         RBW         10         MHz           Att         20         db         SWT         7         ms         VBW         10         MHz           SGL         Count         1/1         TRG: VID         MHz         10         MHz           1Pk         Cirw	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG:VID         TRG:VID         TRG:VID           Ink Cirw         0 dBm         D1[1]         02           0 dBm         TRG         0.400 dBm         D1[1]         02	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG:VID         TRG:VID         Interview           10 dBm         0400 dBm         02         02           0 dBm         TRG 0.400 dBm         01[1]         02           -10 dBm         -20 dBm         0400 dBm         01[1]	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG:VID         TRG:VID         TRG:VID           Ink Cirw         0 dBm         D1[1]         02           0 dBm         TRG         0.400 dBm         D1[1]         02	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         Integration of the second seco	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         ID MHz           10 dBm	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG VID         10 MHz         10 MHz           1Pk Clrw         0 dBm         0111         02           0 dBm         TRG 0.400 dBm         0111         02           -10 dBm         -20 dBm         0.400 dBm         0111           -30.dBm         0.400 dBm         0.400 dBm         0.400 dBm	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         ID MHz           10 dBm	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         0 M1[1]         02           0 dBm         02         00         0111         02         02           0 dBm         02         0111         02         02         0111         02           0 dBm         02         0111         02         02         0111         02         02           0 dBm         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04 <td>-33.24 dBm 1.15000 ms _1.35 db</td>	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         D           ● 1Pk Clrw         0 dBm         01[1]         D2           ● dBm         TRG 0.400 dBm         01[1]         D2           -10 dBm         01[1]         02         01[1]           -20 dBm         01[1]         01[1]         02           -30. dBm         01[1]         02         01[1]           -30. dBm         01[1]         01[1]         01[1]           -30. dBm         01[1]         01[1]         01[1]           -50 dBm         01[1]         01[1]         01[1]	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         0 M1[1]         02           0 dBm         02         00         0111         02         02           0 dBm         02         0111         02         02         0111         02           0 dBm         02         0111         02         02         0111         02         02           0 dBm         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04         04 <td>-33.24 dBm 1.15000 ms _1.35 db</td>	-33.24 dBm 1.15000 ms _1.35 db
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         M1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           0 dBm         M1         D2         D1[1]         D2           0 dBm         M1         D2         D1[1]         D2           -10 dBm         M1         D2         D1[1]         D2           -20 dBm         M1         D2         D1[1]         D2           -30. dBm         M1         D2         D1[1]         D2           -40 dBm         M1         D2         M1         D2           -50 dBm         M1         M1         M1         M1         M1           -70 dBm         M1         M1 <t< td=""><td>-33.24 dBm 1.15000 ms 2.90000 ms</td></t<>	-33.24 dBm 1.15000 ms 2.90000 ms
Ref Level 15.00 dBm       Offset 11.23 dB       RBW 10 MHz         Att       20 dB       SWT       7 ms       VBW 10 MHz         SGL Count 1/1       TRG VID       TRG VID       D2         • 1Pk Clrw       0 dBm       0111       D2         • 0 dBm       TRG 0.400 dBm       0111       D2         • 0 dBm       TRG 0.400 dBm       0111       D2         • 0 dBm       -10 dBm       0111       D2         • 0 dBm       -10 dBm       0111       D2         • 0 dBm       -10 dBm       0111       01         • 0 dBm       -10 dBm       0111       01         • 0 dBm       -10 dBm       0111       01         • 0 dBm       -10 dBm       01       01         • 0 dBm       -10 dBm       01       01         • 0 dBm       -10 dBm       01       01         • 0 dBm       -10       0	-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         M1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D1[1]           -10 dBm         -10 dBm         -10         D1[1]         -10           -20 dBm         -20 dBm         -10         -10         -10           -30 dBm         -10         -10         -10         -10           -50 dBm         -10         -10         -10         -10           -60 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10         -10           -80 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10	-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         D1/11         D2           10 dBm         0400 dBm         0111         D2         D111         D2           0 dBm         TRG: 0.400 dBm         0111         D2         D111         D2           -0 dBm         10 dBm         02         D111         D2         D111         D2           -10 dBm         0400         0400         0400         0400         D111         D2         D111         D1111         D111         D1111 <t< td=""><td>-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms</td></t<>	-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         M1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D1[1]           -10 dBm         -10 dBm         -10         D1[1]         -10           -20 dBm         -20 dBm         -10         -10         -10           -30 dBm         -10         -10         -10         -10           -50 dBm         -10         -10         -10         -10           -60 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10         -10           -80 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10         -10           -70 dBm         -10         -10         -10	-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         M1[1]         D2           0 dBm         M1[1]         D2         D1[1]         D2           -10 dBm         M1         D1[1]         D2         D1[1]         D2           -20 dBm         M1         D1         D2         D1[1]         D2         D3           -30 dBm         M1         D1         D2         D3         D3         D3         D3           -60 dBm         -0         -0         -0         -0         -0         -0         -0           -70 dBm         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         <	-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         M1[1]         02           0 dBm         M1[1]         02         0111         02           -10 dBm         M11         02         0111         02           -20 dBm         M11         04         0111         02           -30 dBm         M11         04         04         04           -50 dBm         04         04         04         04           -60 dBm         04         04         04         04         04           -70 dBm         04         04         04         04         04         04           -80 dBm         04         -31.55 dB         04         04         04         04         04         04	-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms
Ref Level 15.00 dBm         Offset 11.23 dB         RBW 10 MHz           Att         20 dB         SWT         7 ms         VBW 10 MHz           SGL Count 1/1         TRG: VID         TRG: VID         ID MHz           0 dBm	-33.24 dBm 33.24 dBm 1.35 dB 2.90000 ms

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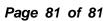
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 下配中国国家认证认可监督管理委员会 Accreditation Administration of the People's Republic of China : http://yz.cnca.cn



Spect Ref L Att SGL Co	trum											
Ref L Att			Spec	trum 2	×							
	.evel	15.00	dBm	Offset	11.23 dB	RBW 1						( )
	0005		O dB (	SWT TRG: V		VBW 1	) MHz					
●1Pk C		-/ L		TKG: V	10							
10 dBm								M1[1]		<b>D</b> 2		32.68 dBm
and a second	ן ר״	RG 23	300 dB	uniona and and and and and and and and and a	upper and	work where	which			D2	مىسەرىمە <del>ر</del> ىرىغۇلەتمەمىسانىي	<del>~590、88-рс</del> —39.42 dB
0 dBm-			T									2.89000 ms
-10 dBr	m++-		$\rightarrow$							_		
-20 dBr	m											
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-30 dBr	m the	methoda	www				+	14	الا مسري طاحيت	New York		
-40 dBr	m+				-						-	
-50 dBr												
-60 dBr	m+		-				-					
-70 dBr	m+											
-80 dBr	m											
CF 2.4		lz				10	01 pts					700.0 µs/
Marker												
Type M1		Trc 1		X-valu	е 90.0 µs	Y-valu -32.68	dem	Function	_	Fun	ction Result	
D1	M1	1			2.89 ms	39.4	2 dB					
D2	M1	1			3.74 ms	38.8	3 dB					
		Л									444	193013
Date: 1	1.JUL	.2024	09:	38:13								
	_				-		1 ntd	2444				
						DH2_	ANTI	_2441				(
Spect		ĺ		trum 2		-						
Ref L Att	.evel			Offset SWT		<ul> <li>RBW 1</li> <li>VBW 1</li> </ul>						
SGL C			5 40 1	TRG: V		3.54 1						
⊖1Pk C	lrw		-									6.07.49
10 dBm	www	and and all the second second	+	M	1 reasons	-600 01-200 700 - 400 800		M1[1]			D2	6.07 dBm
0 dBm-	<b>_</b> T	RG 2.:	100 dB		-	-	-	D1[1]			1	18.75 dB
10 10											1	2.89000 ms
-10 dBr	"								4			
-20 dBr	m+						-					
-30 dBr	m+		mar	فارامها والماري			_			والمروسة الإكتاء المعال	der l	
-40 dBr												
-50 dBr	m+		-				+					
-60 dBr	m-+-											
-70 dBr	m					_						
-80 dBr												
CF 2.4		12				10	01 pts					700.0 µs/
CF 2.4 Marker Type	Ref	Trc		X-valu		Y-valu	,	Function		Fun	ction Result	
CF 2.4 Marker Type M1	Ref	Trc 1			0.0 s	Y-valu 6.07	e dBm			Fun		
CF 2.4 Marker Type	Ref	<b>Trc</b> 1				Y-valu 6.07 -18.7	e dBm			Fun		
CF 2.4 Marker Type M1 D1	Ref	<b>Trc</b> 1			0.0 s 2.89 ms	Y-valu 6.07 -18.7	dBm 5 dB			Fun		
CF 2.4 Marker Type M1 D1 D2	Ref M1 M1	Trc 1 1			0.0 s 2.89 ms	Y-valu 6.07 -18.7	dBm 5 dB			Fun		
CF 2.4 Marker Type M1 D1	Ref M1 M1	Trc 1 1			0.0 s 2.89 ms 3.73 ms	Y-valu 6.07 -18.7 -0.0	9 dBm 5 dB 4 dB	Function		Fun		
CF 2.4 Marker Type M1 D1 D2	Ref M1 M1	Trc 1 1			0.0 s 2.89 ms 3.73 ms	Y-valu 6.07 -18.7 -0.0	9 dBm 5 dB 4 dB			Fun		11.07.2024
CF 2.4 Marker Type M1 D1 D2	Ref M1 M1	Trc 1 1 1	09:		0.0 s 2.89 ms 3.73 ms	Y-valu 6.07 -18.7 -0.0	9 dBm 5 dB 4 dB	Function		Fun		11.07.2024
GF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1	Ref M1 M1	Trc 1 1 1 .2024	09: Spee	40:25 Strum 2 Offset	0.0 s 2.89 ms 3.73 ms 3.73 ms	Y-valu 6.07 -18.7 -0.0 SDH5_,	dBm 5 dB 4 dB Ant1	Function		Fun		
GF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1	Ref M1 M1 1.JUL	Trc 1 1 1 .2024 .2024 15.00 2	09: Spee	40:25 :trum 2 Offset SWT	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18.1 -0.0 SDH5_,	dBm 5 dB 4 dB Ant1	Function		Fun		11.07.2024
GF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1	Ref M1 M1 1.JUL	Trc 1 1 1 .2024 .2024 15.00 2	09: Spee	40:25 Strum 2 Offset	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18.1 -0.0 SDH5_,	dBm 5 dB 4 dB Ant1	Function		Fun		
CF 2.4 Marker Type Min D1 D2 Date: 1 Spect Ref L Att SGL Cd	Ref M1 M1 1.JUL	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB	40:25 :trum 2 Offset SWT	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -16.7 -0.0 BDH5_,	adBm 5 dB 4 dB 4 dB	Function		Fun		(₩ ₹4.99 dBm
CF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1 Date: 1 Spect Ref L Att SGL Cc 10 dBm	Ref M1 M1 1.JUL	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	O9: Spec dBm 0 dB	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH5	dBm 5 dB 4 dB Ant1	Function		Fun		4.99 dBm 
CF 2.4 Marker Min D1 D2 Date: 1 Spect Ref L SGL CC @1Pk C	Ref M1 M1 1.JUL	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	O9: Spec dBm 0 dB	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH5	adBm 5 dB 5 dB 4 dB 4 dB	Function 2480 		Fun		(₩ 4.99 dBm
CF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1 Date: 1 Spect Ref L Att SGL Cc 10 dBm	M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	O9: Spec dBm 0 dB	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH5	adBm 5 dB 5 dB 4 dB 4 dB	Function 2480 		Fun		4.99 dBm 
CF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1 Date: 1 Spect Ref L SG. C 0 1Pk C 10 dBm= D dBm=	trum	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	O9: Spec dBm 0 dB	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH5	adBm 5 dB 5 dB 4 dB 4 dB	Function 2480 		Fun		4.99 dBm 
CF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1 Date: 1 Spect Ref L SLC (0 1Pk SLC (0 1Pk -10 dBm -20 dBm	Ref M1 M1 In.JUI	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH5	adBm 5 dB 5 dB 4 dB 4 dB	Function 2480 				4.99 dBm 
CF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1 Date: 1 Spect Ref L e Att SGL C( 0 1Pk C 10 dBm <sup></sup> -10 dBm <sup></sup>	Ref M1 M1 In.JUI	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH5	dBm     dBm     dBm     dBm     dBm     dBm     dBm     dBm     dDm     d	Function 2480 		Fun		4.99 dBm 
CF 2.4 Marker Type M1 D1 D2 Date: 1 Date: 1 Date: 1 Spect Ref L SLC (0 1Pk SLC (0 1Pk -10 dBm -20 dBm	Ref M1 M1 M1 .1.JUL trum .evel ount 1 llrw	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH51 • RBW 1 • VBW 1	dBm     dBm     dBm     dBm     dBm     dBm     dBm     dBm     dDm     d	Function 2480 				4.99 dBm 
CF 2.4 Marker Type M1 D1 D2 Date: 1 D2 Date: 1 CF SGL CC 0 1Pk CC 0 4Pk -10 dBr -20 dBr -30 dBr -40 dBr	trum m m w m	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH51 • RBW 1 • VBW 1	dBm     dBm     dBm     dBm     dBm     dBm     dBm     dBm     dDm     d	Function 2480 				4.99 dBm 
CF 2.4 Marker <u>Type</u> M1 D1 D2 Date: 1 D2 Date: 1 CF SGL (C P1Pk C 10 dBm -10 dBm -20 dBm -30 dBr -30 dBr	Ref M1 M1 M1 	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH51 • RBW 1 • VBW 1	dBm     dBm     dBm     dBm     dBm     dBm     dBm     dBm     dDm     d	Function 2480 				4.99 dBm 
CF 2.4 Marker Type M1 D1 D2 Date: 1 D2 Date: 1 CF SGL CC 0 1Pk CC 0 4Pk -10 dBr -20 dBr -30 dBr -40 dBr	Ref M1 M1 M1 	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH51 • RBW 1 • VBW 1	dBm     dBm     dBm     dBm     dBm     dBm     dBm     dBm     dDm     d	Function 2480 				4.99 dBm 
CF 2.4 Marker <u>Type</u> M1 D1 D2 Date: 1 D2 Date: 1 CF SGL (C P1Pk C 10 dBm -10 dBm -20 dBm -30 dBr -30 dBr	Ref M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH51 • RBW 1 • VBW 1	dBm     dBm     dBm     dBm     dBm     dBm     dBm     dBm     dDm     d	Function 2480 				4.99 dBm 
CF 2.4 Marker Type M1 D1 D2 Date: 1 D2 Date: 1 D2 Date: 1 D2 Date: 1 C C 02 D2 Date: 1 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2	Ref M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18. -0.0 BDH51 • RBW 1 • VBW 1	dBm     dBm     dBm     dBm     dBm     dBm     dBm     dBm     dDm     d	Function 2480 				4.99 dBm 
CF 2.4 Marker Type M1 01 02 02 02 02 02 02 02 02 02 02 02 02 02	Ref M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09: dBm 0 dB (	40:25 :trum 2 Offset SWT TRG:V	0.0 s 2.89 ms 3.73 ms 3.73 ms 11.23 dB 12 ms	Y-valu 6.07 -18.7 -0.0 BDH5 RBW 1 • VBW 1	Ant1	Function  Possid  2480				4.99 dBm 
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CF 2.4 Marker Type M1 D1 D2 Date: 1 Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. Sect. S	MI M	Trc 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09: Speed dBm 0 dB 0 dB 0 dB 0 dB	40:25 Offset > SWT TRG:V TRG:V X-volu	0.0 s 2.69 ms 3.73 ms 3.73 ms 11.23 dB 12 ms 10 10 10 10 10 10 10 10 10 10	Y-valu 6.07 -18. -0.0 DH5_, VBW 1 VBW 1	e dBm 5 dB 5 dB 4 dB 0 MHz 0 MHz 0 MHz 0 MHz	Function  Possid  2480				4.99 dBm 
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# 3.11. 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 is less than 6dBi, please refer to the EUT internal photographs antenna photo.

CTC Laboratories, Inc. Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Tel.: (86)755-27521059 中国国家认证认可监督管理委员会