

Appendix Test Data

Project No.:	18220WC10138601	Test Date:	2021.6.25
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.2 %
Pressure:	1012 hPa		

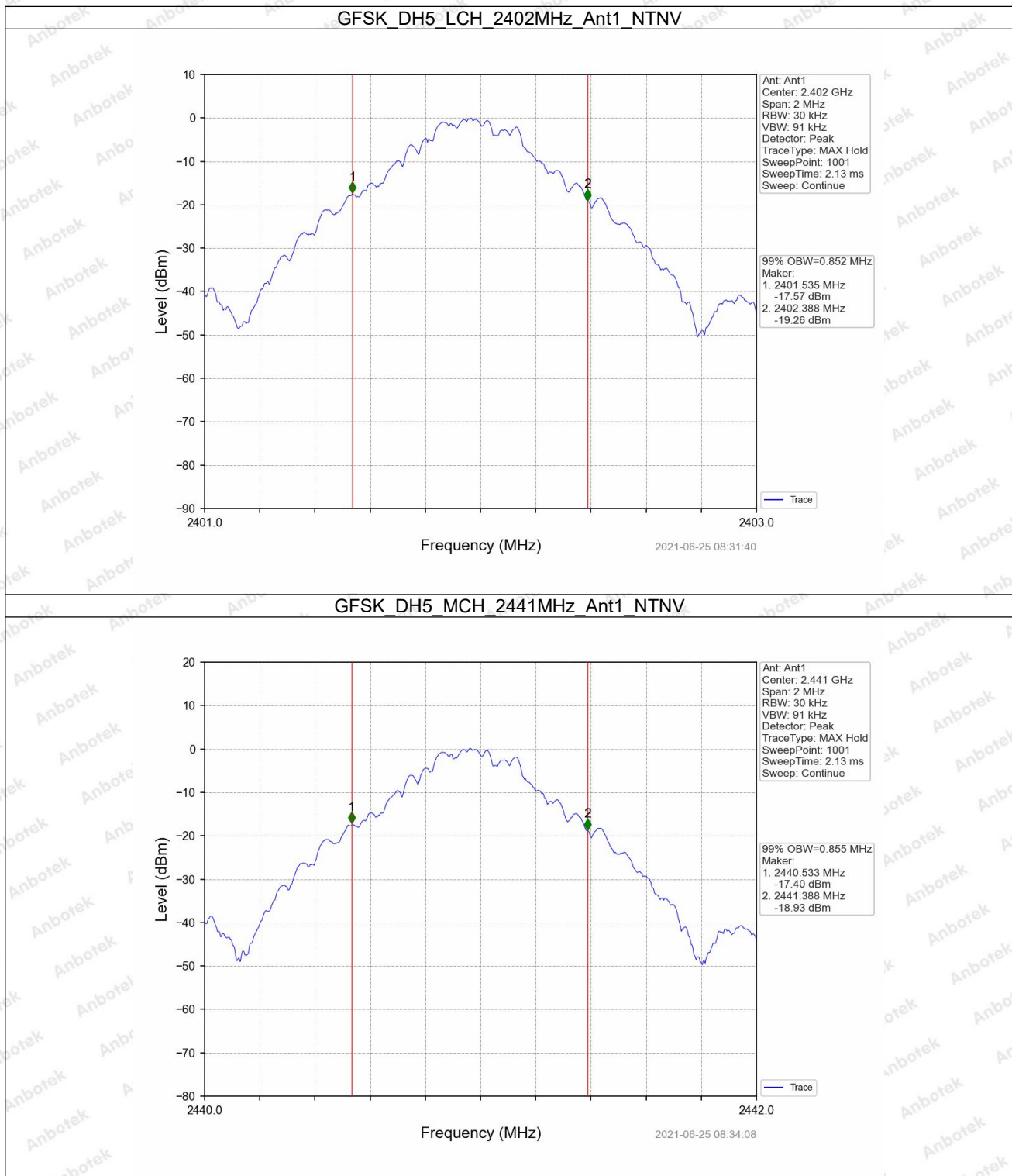
1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
GFSK	SISO	2402	DH5	1	0.85	/	Note1
		2441	DH5	1	0.85	/	Note1
		2480	DH5	1	0.85	/	Note1
Pi/4DQPSK	SISO	2402	2DH5	1	1.18	/	Note1
		2441	2DH5	1	1.18	/	Note1
		2480	2DH5	1	1.18	/	Note1
Note1: Only for Report Use							

1.1.2 Test Graph

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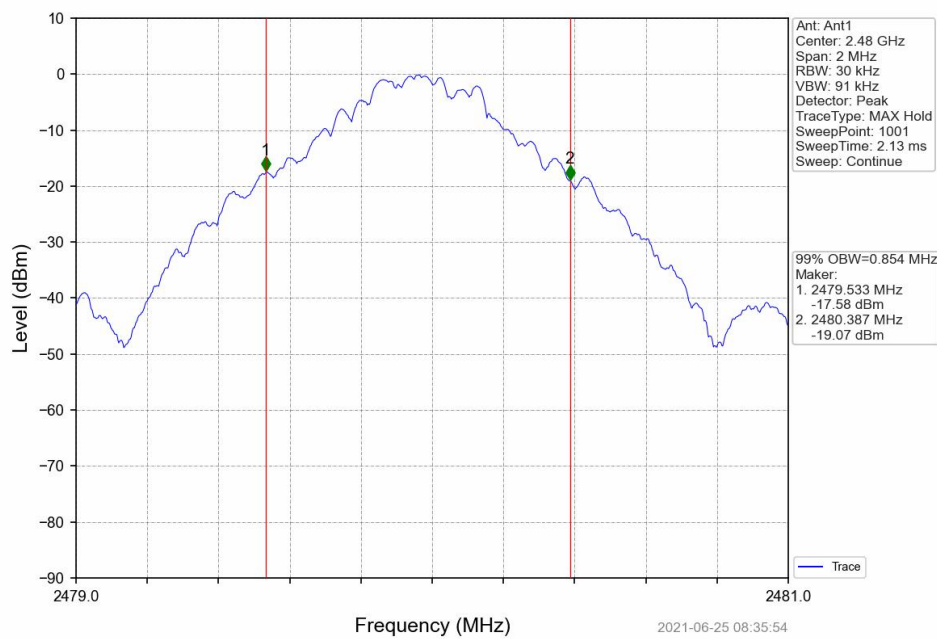


Hotline

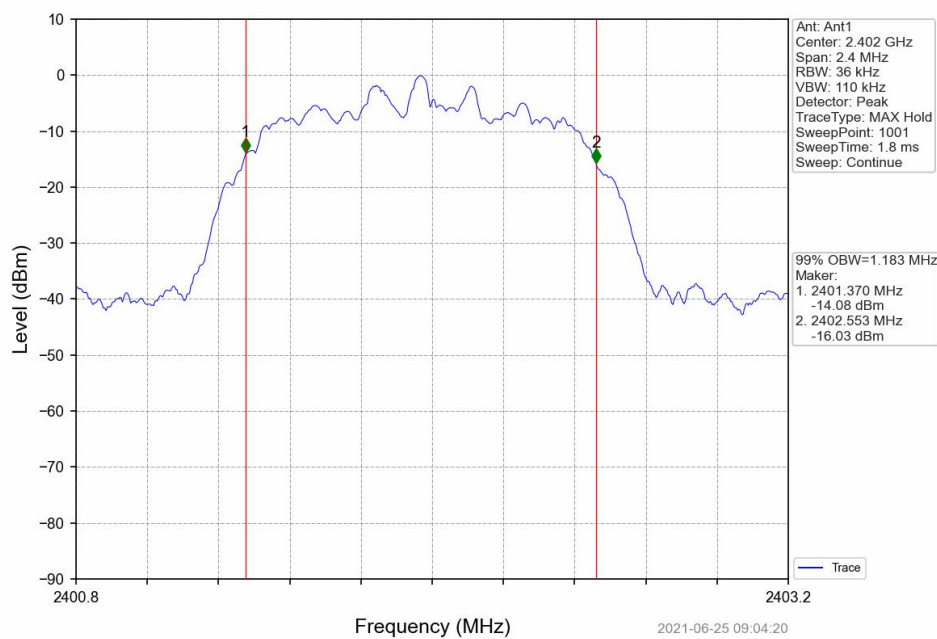
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

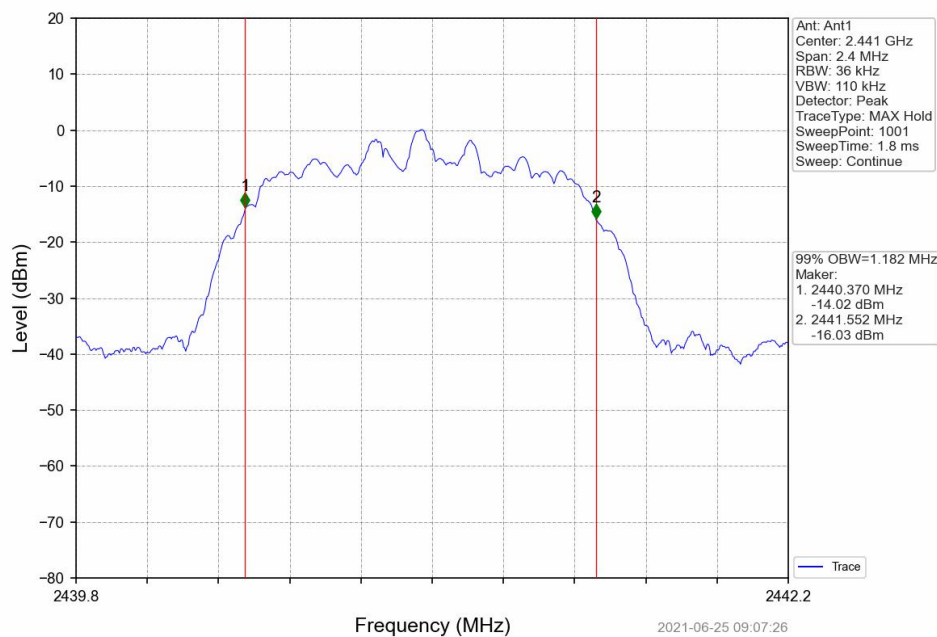


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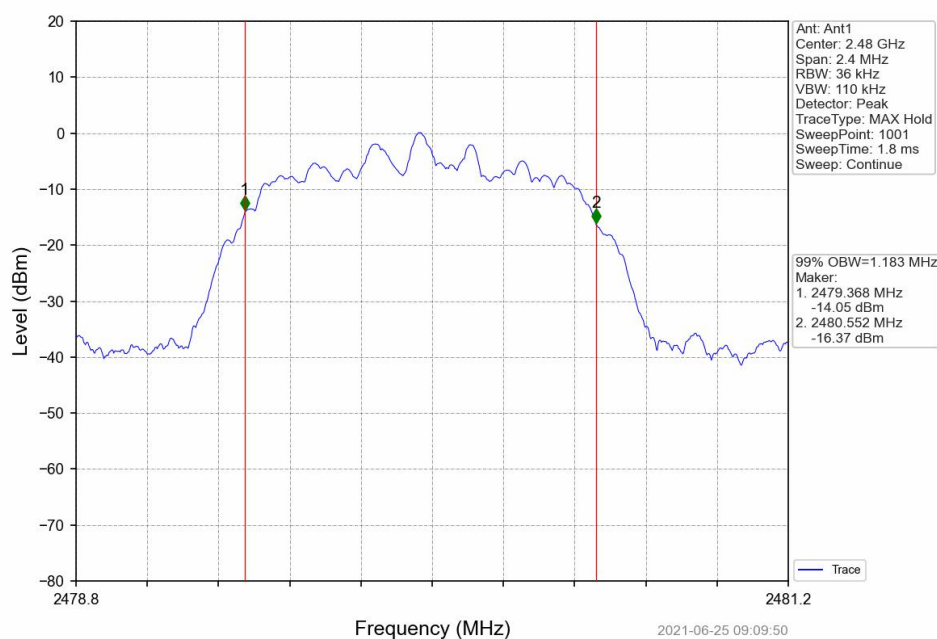
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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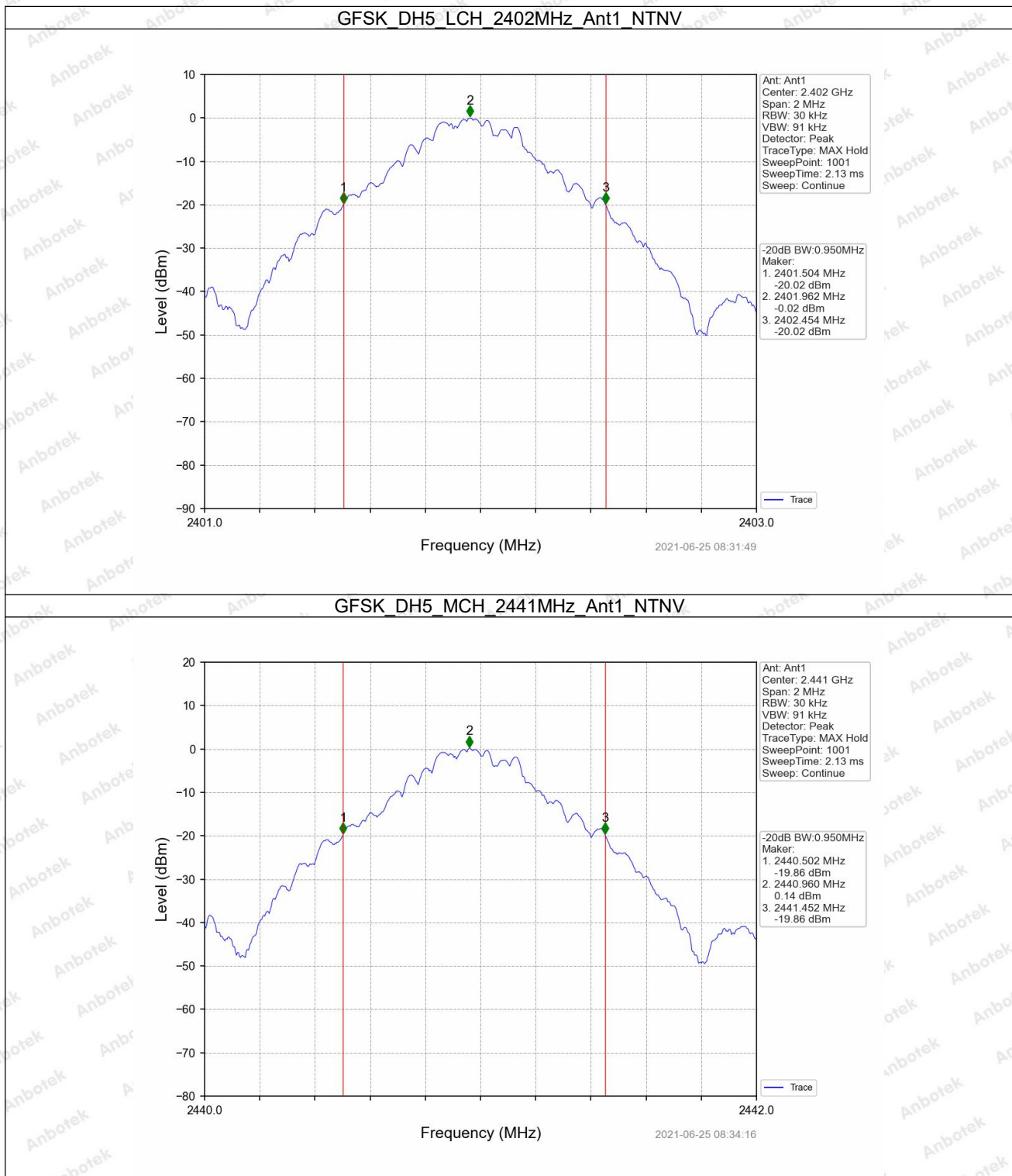
1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Limit	Verdict
GFSK	SISO	2402	DH5	1	0.95	/	Note1
		2441	DH5	1	0.95	/	Note1
		2480	DH5	1	0.95	/	Note1
Pi/4DQPSK	SISO	2402	2DH5	1	1.32	/	Note1
		2441	2DH5	1	1.32	/	Note1
		2480	2DH5	1	1.32	/	Note1

Note1: Only for Report Use

1.2.2 Test Graph

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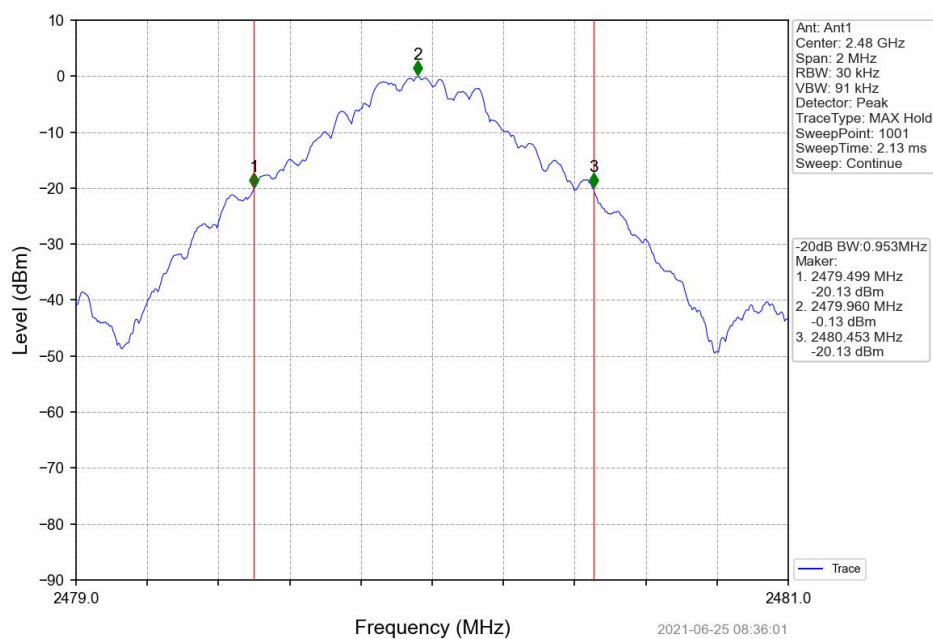


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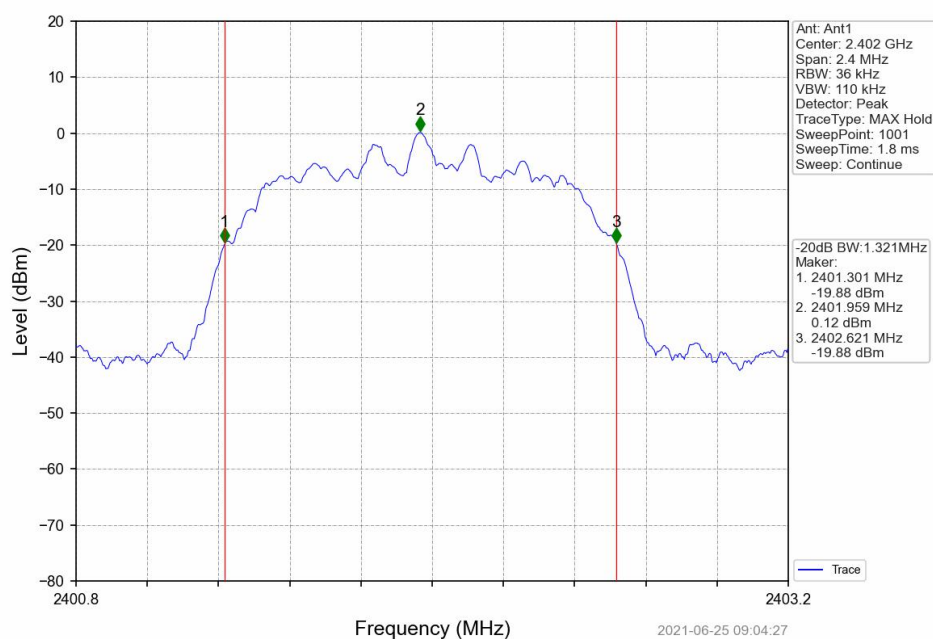
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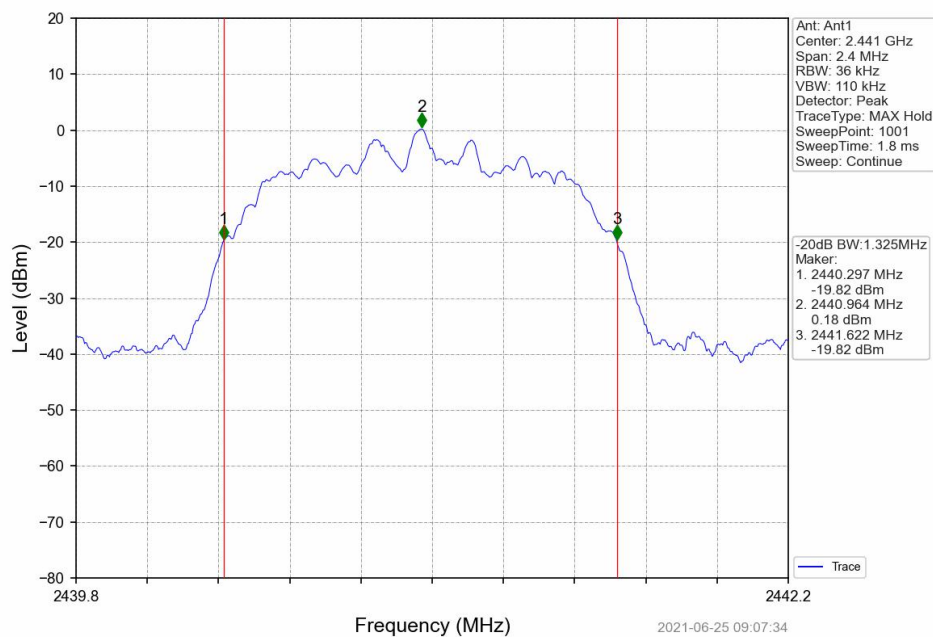
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



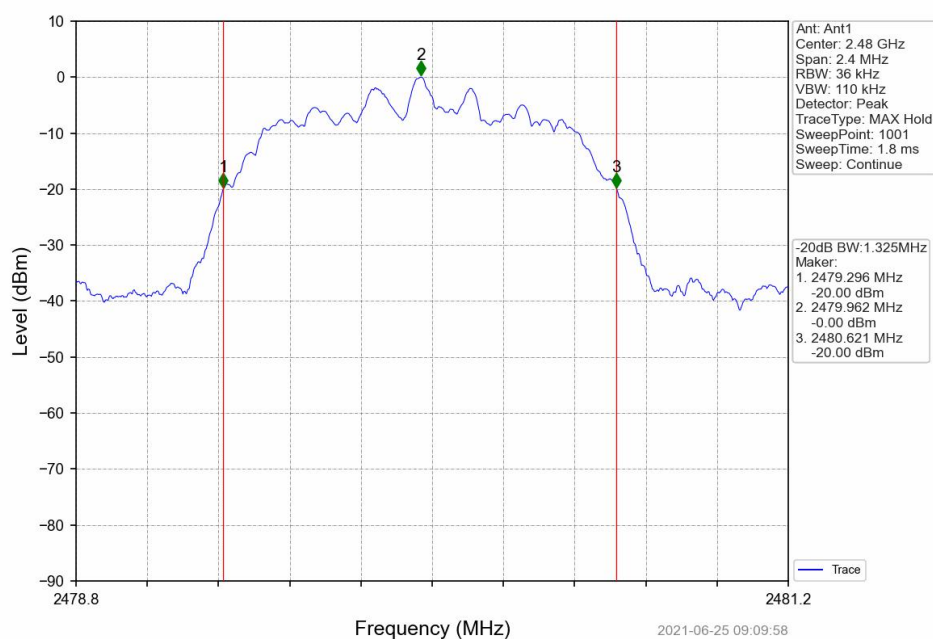
PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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2. Maximum Conducted Output Power

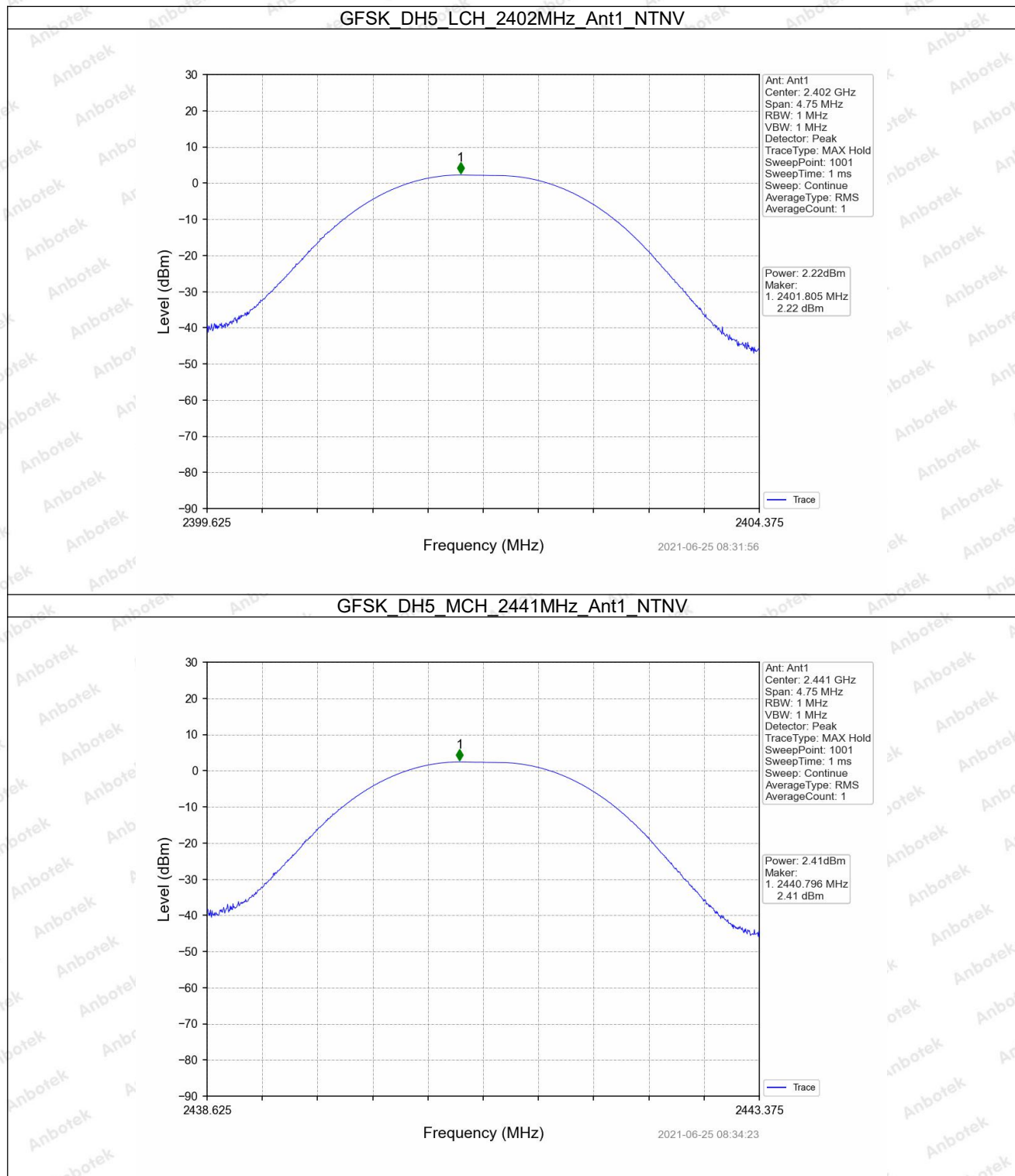
2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Measured Peak Output Power (dBm)	Limit (dBm)	Verdict
				Ant1		
GFSK	SISO	2402	DH5	2.22	<=30	Pass
		2441	DH5	2.41	<=30	Pass
		2480	DH5	2.17	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.97	<=20.97	Pass
		2441	2DH5	3.15	<=20.97	Pass
		2480	2DH5	2.87	<=20.97	Pass

Note1: Antenna Gain: -1.00dBi;

2.1.2 Test Graph



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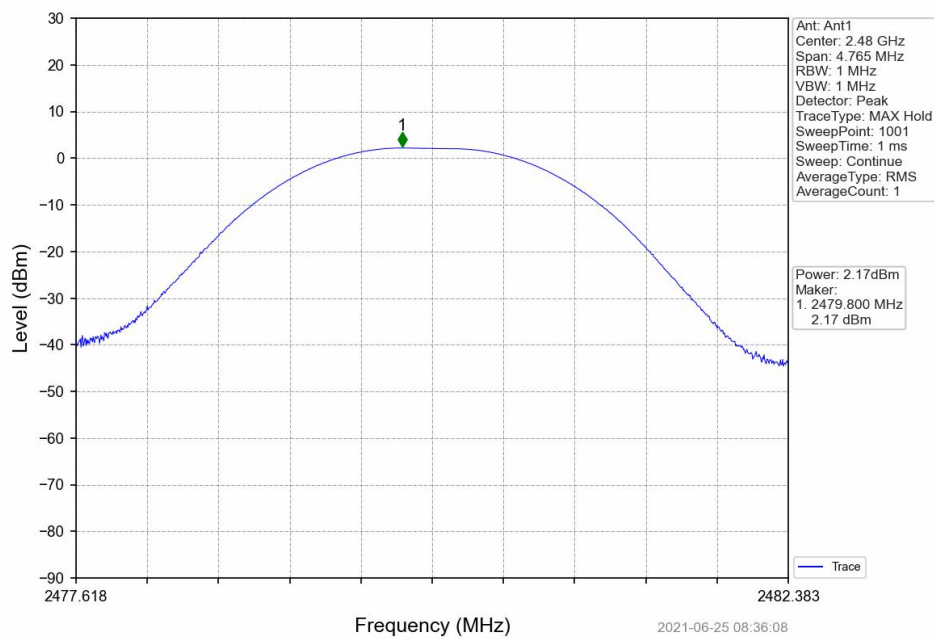


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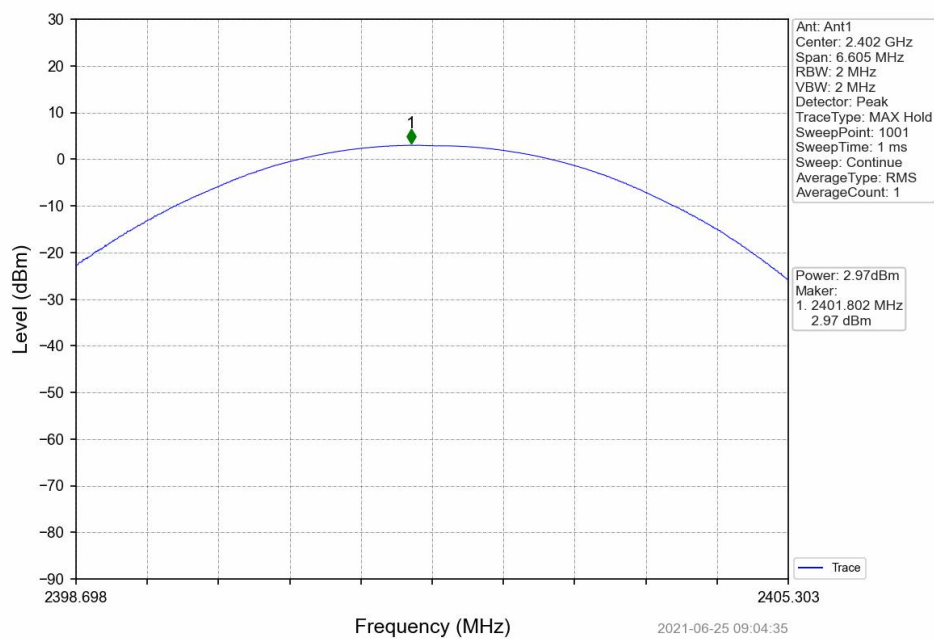
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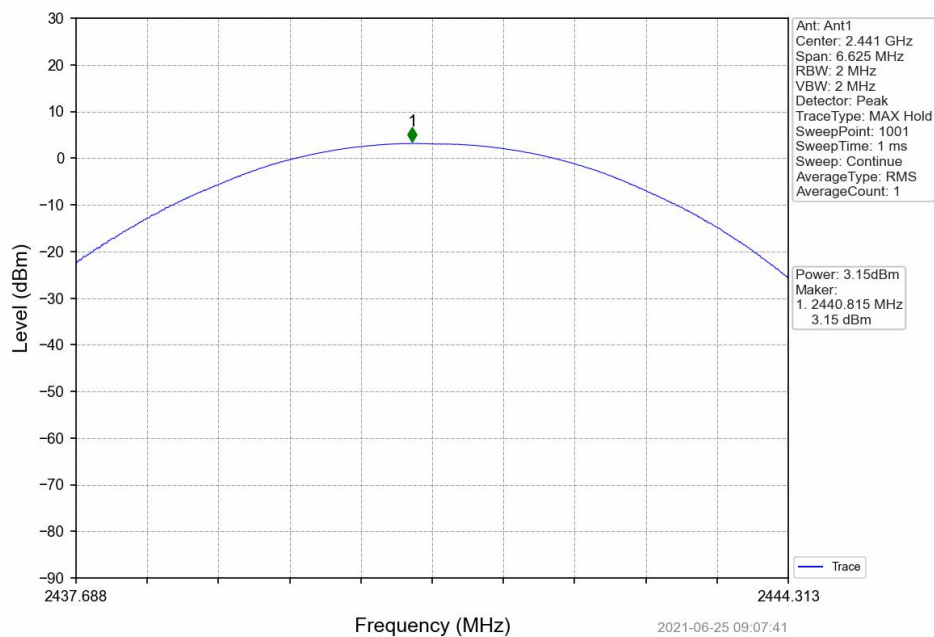
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



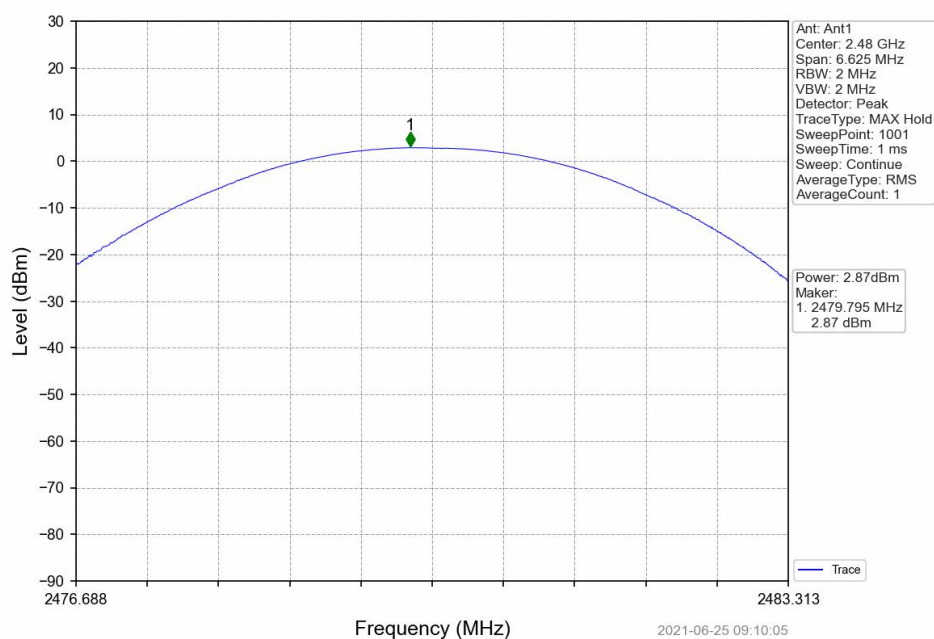
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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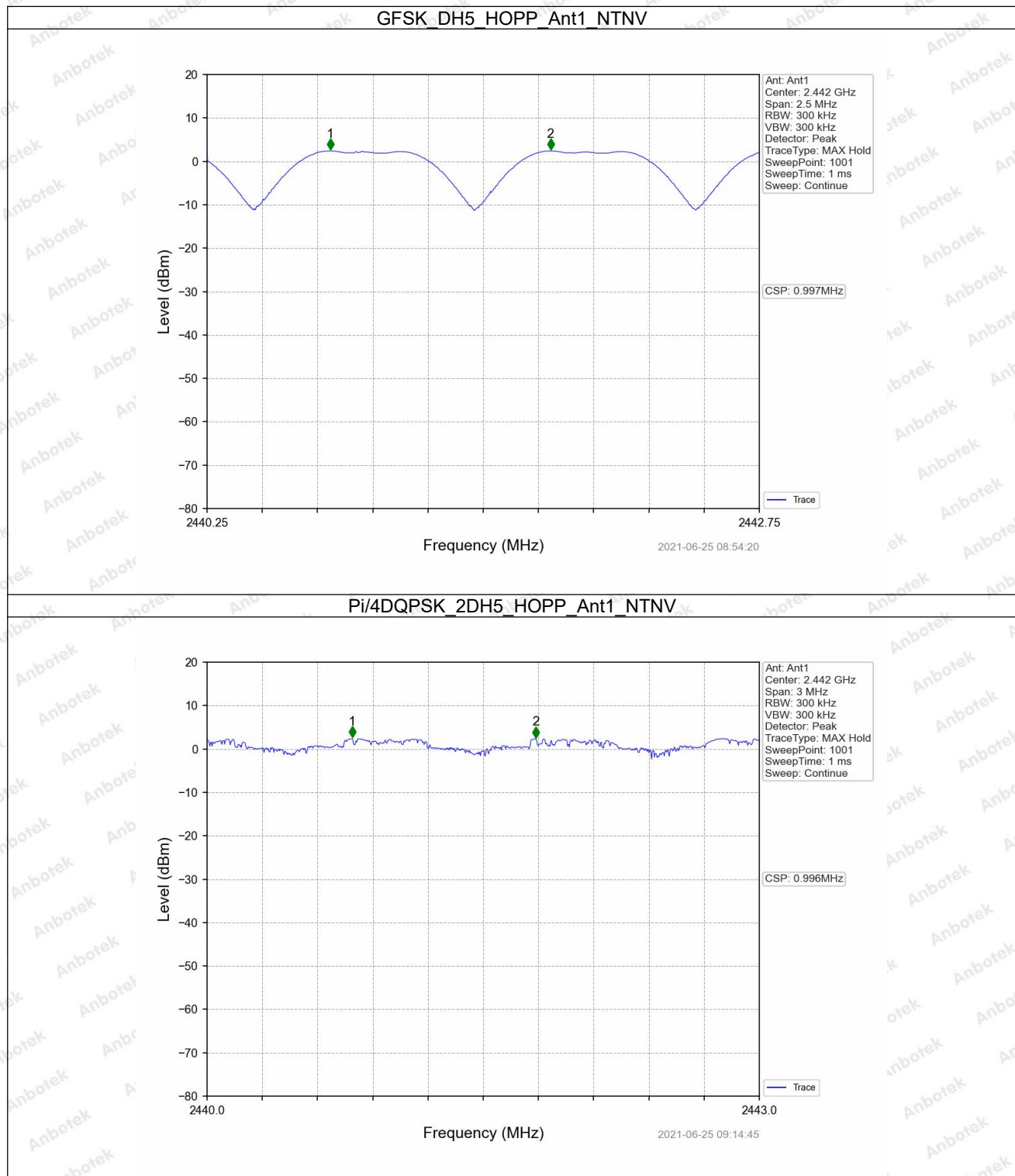
3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.00	0.95	≥ 0.95	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.00	1.32	≥ 0.881	Pass

3.1.2 Test Graph

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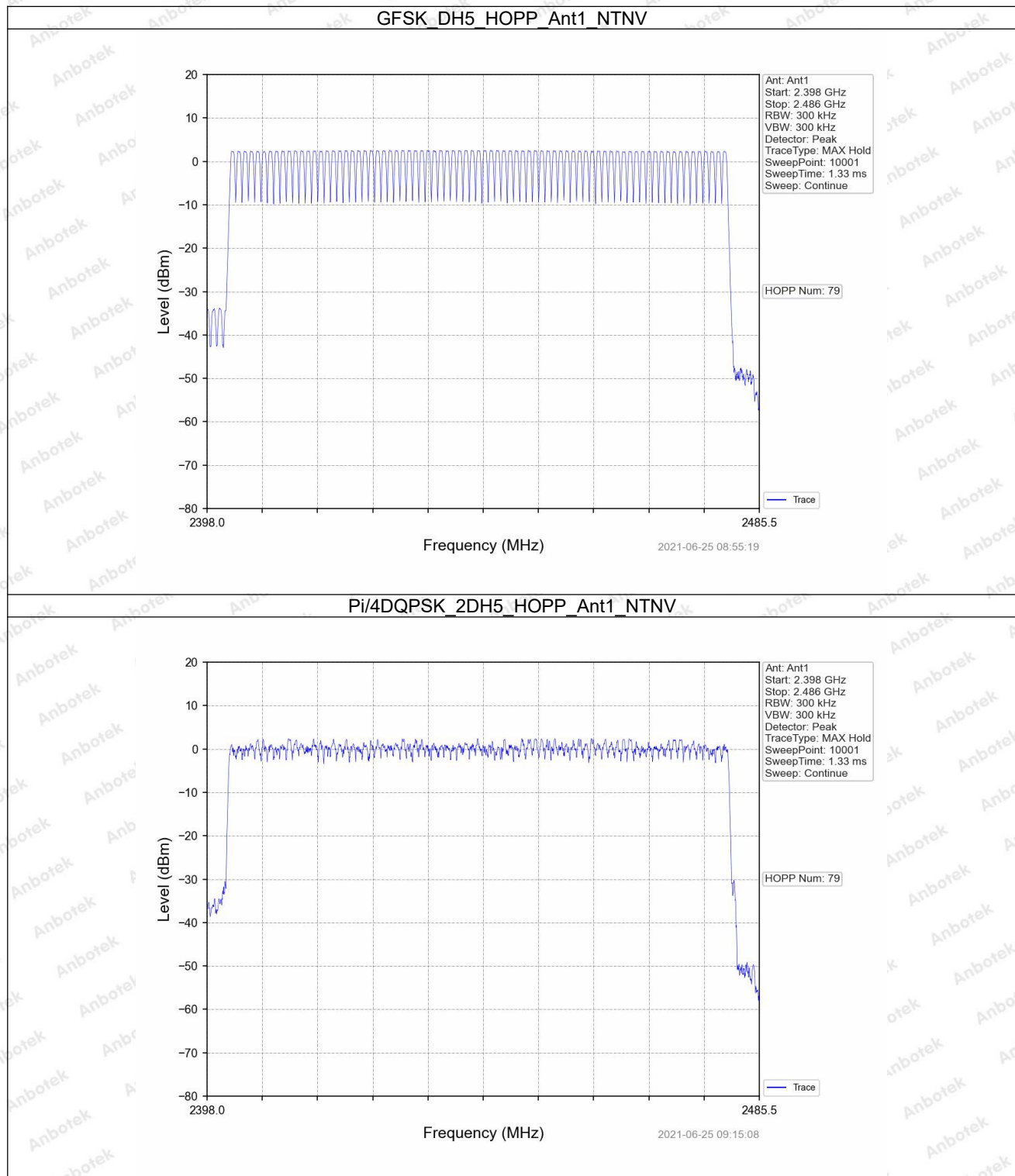
4. Number of Hopping Frequencies

4.1 HopNum

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies	Limit	Verdict
				Ant1		
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass

4.1.2 Test Graph

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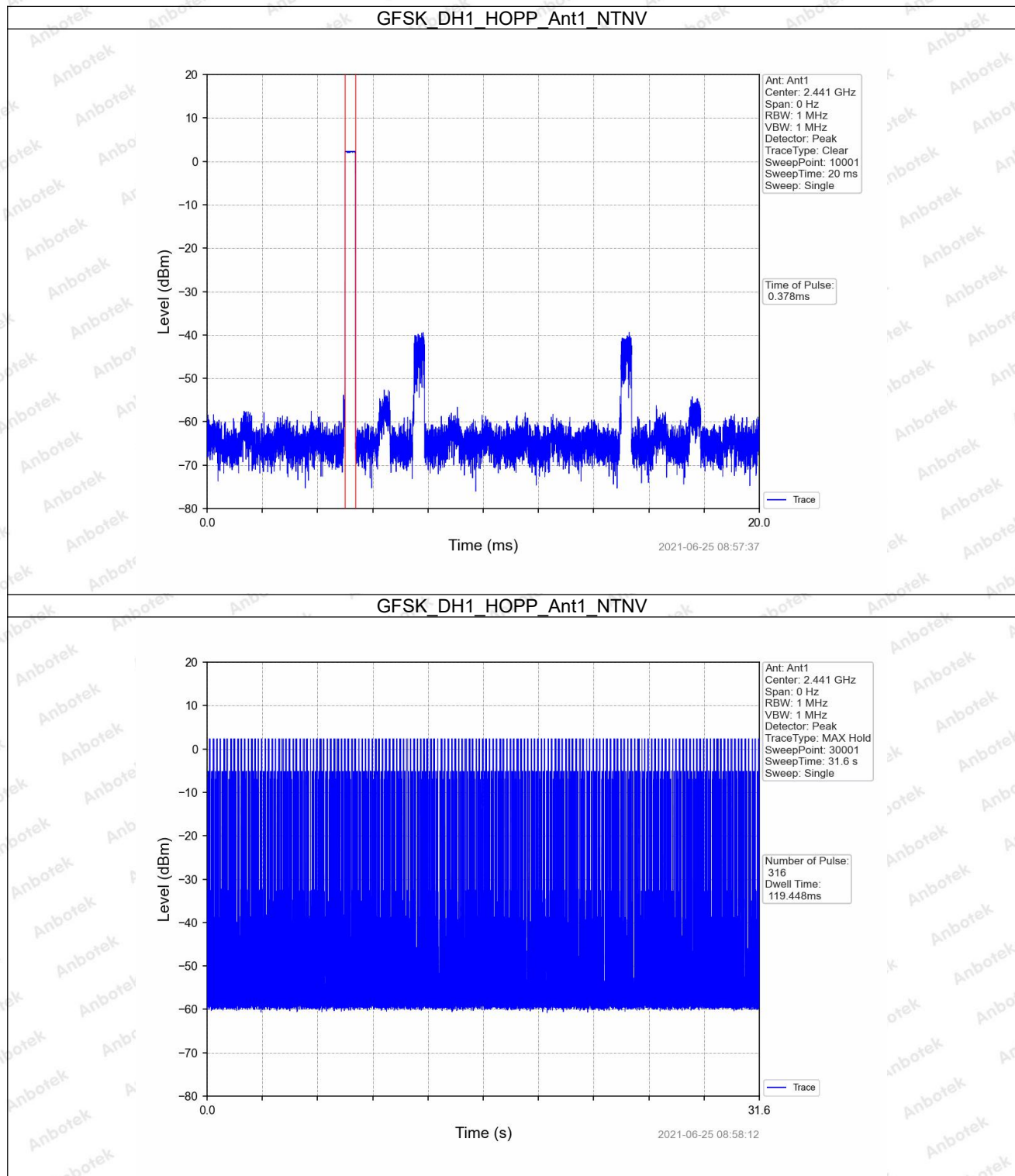
5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.38	31.60	316	119.45	<=400	Pass
			DH3	1.63	31.60	164	267.98	<=400	Pass
			DH5	2.88	31.60	112	322.78	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.39	31.60	317	123.00	<=400	Pass
			2DH3	1.64	31.60	157	257.48	<=400	Pass
			2DH5	2.89	31.60	92	265.70	<=400	Pass

5.1.2 Test Graph

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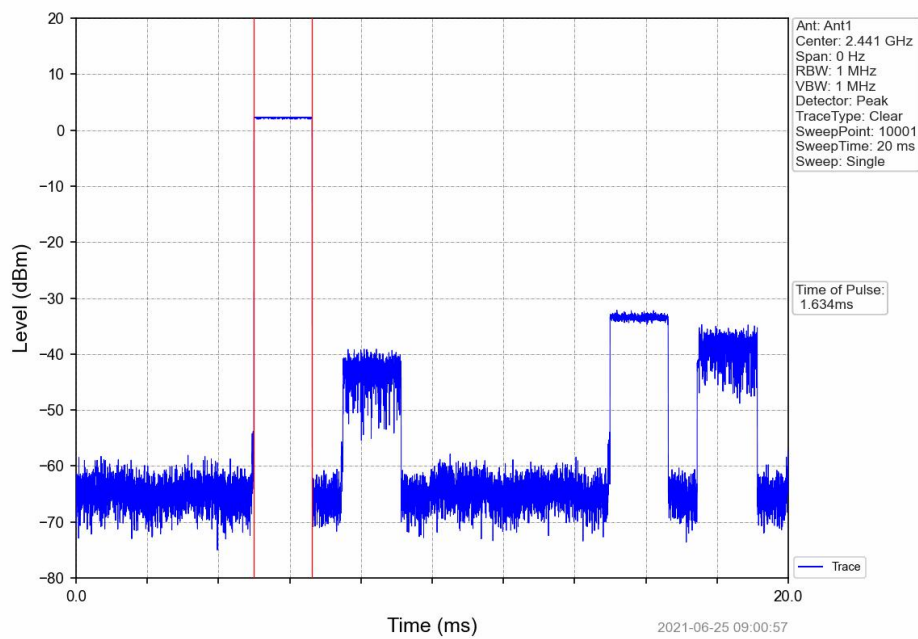


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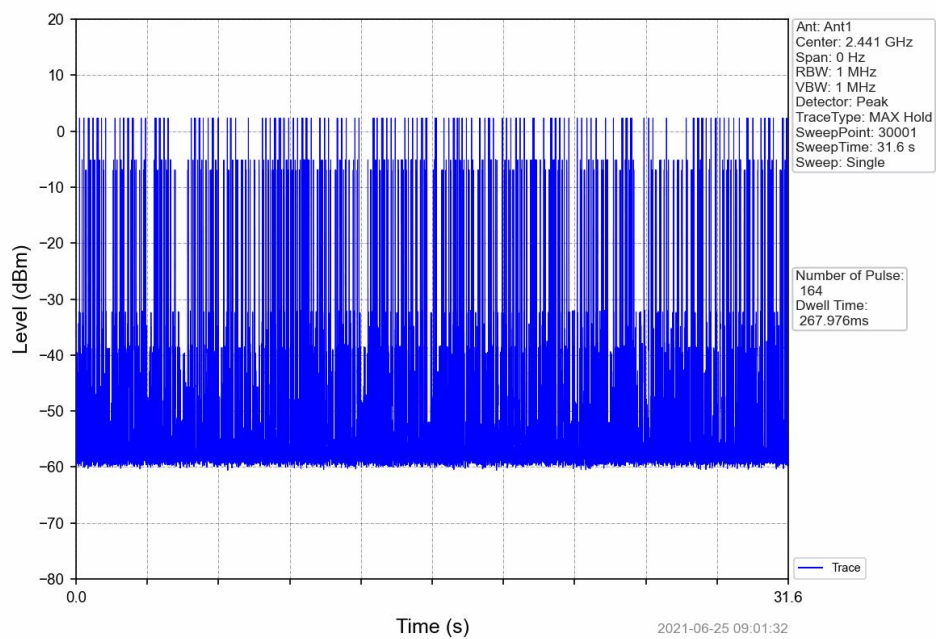
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GFSK_DH3_HOPP_Ant1_NTNV



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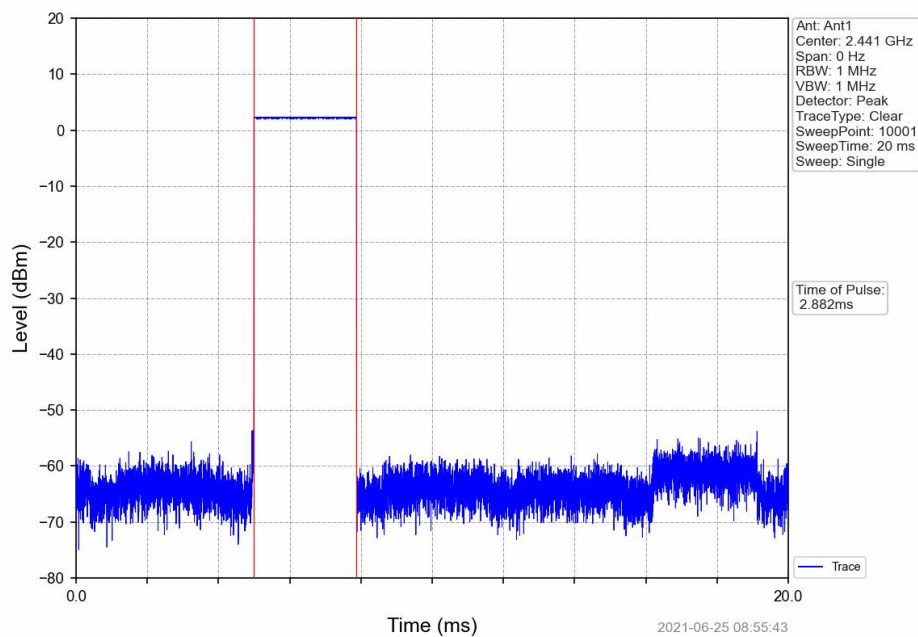


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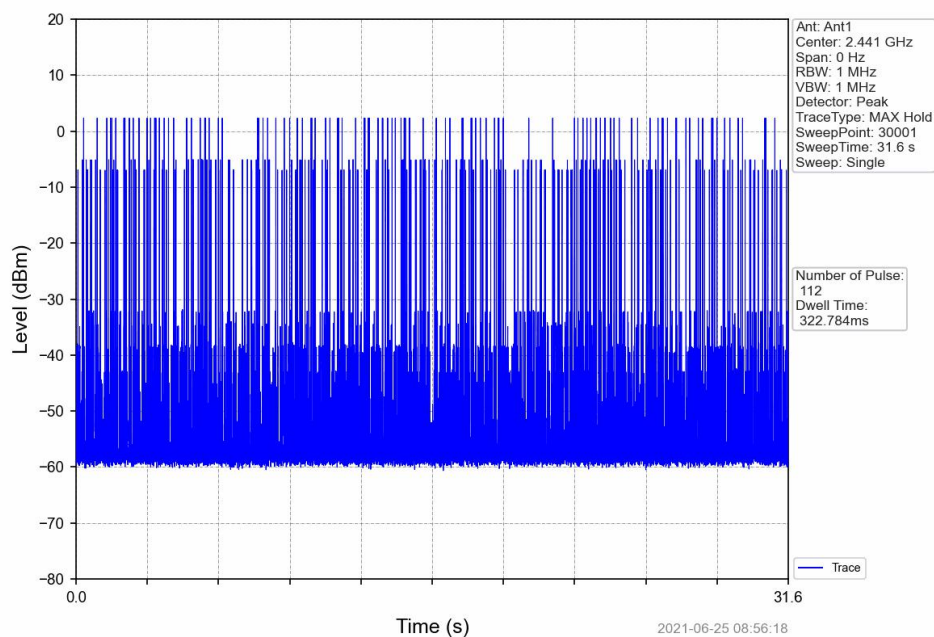
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GFSK_DH5_HOPP_Ant1_NTNV

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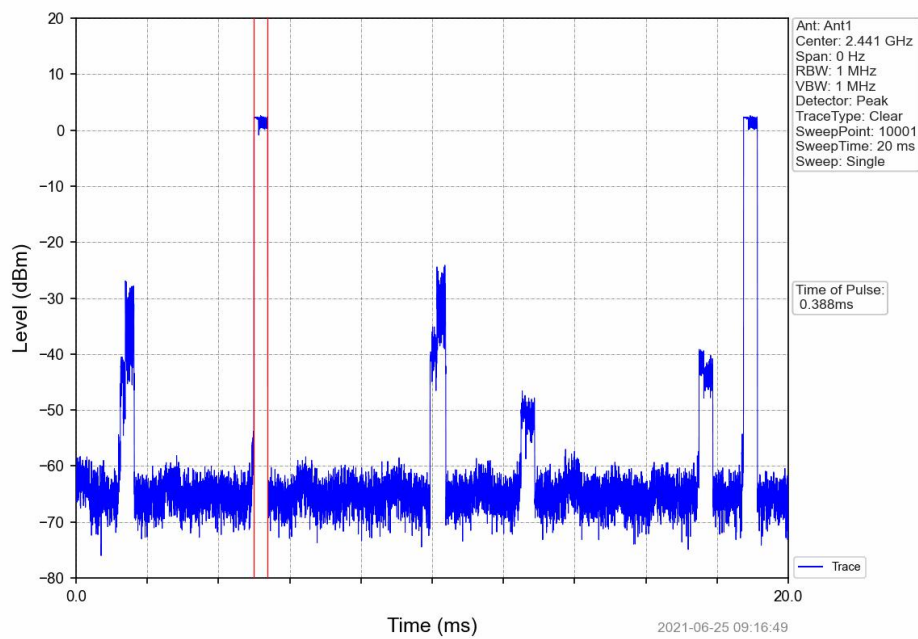
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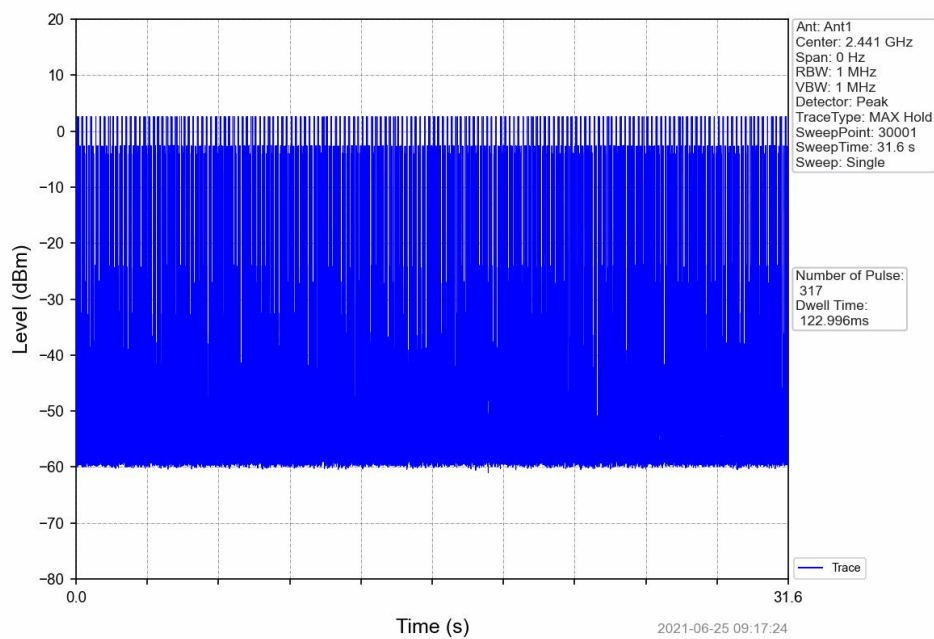


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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



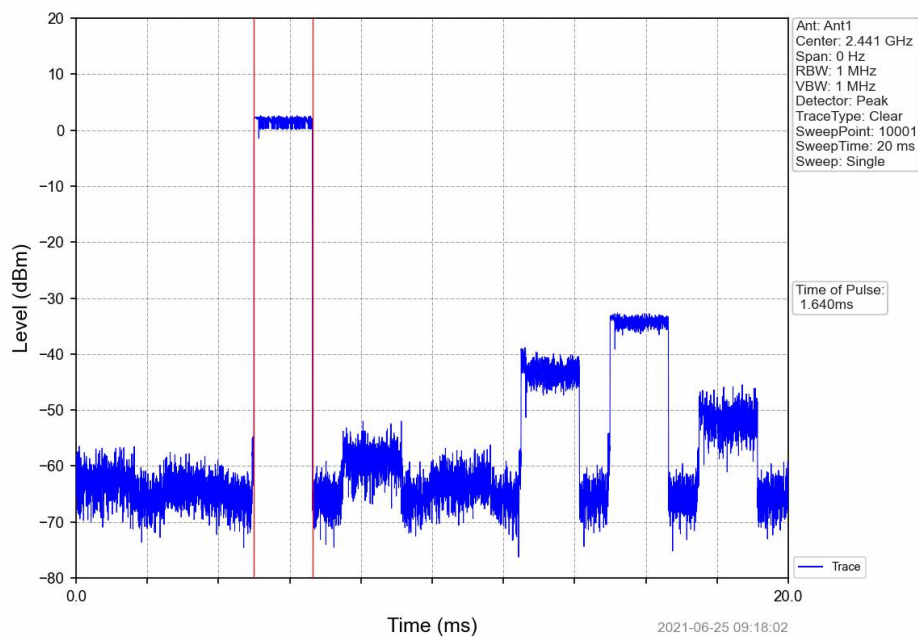
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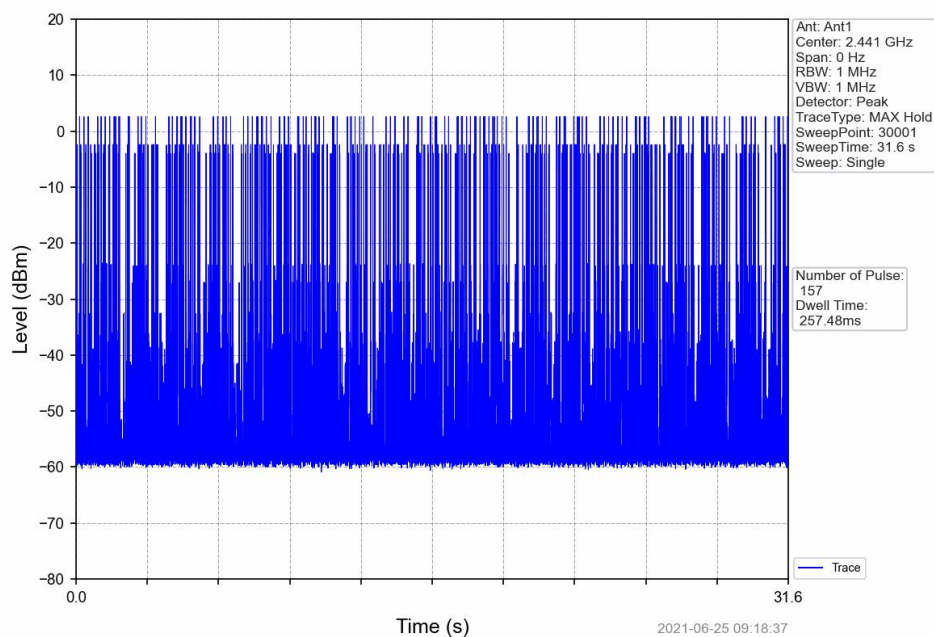
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



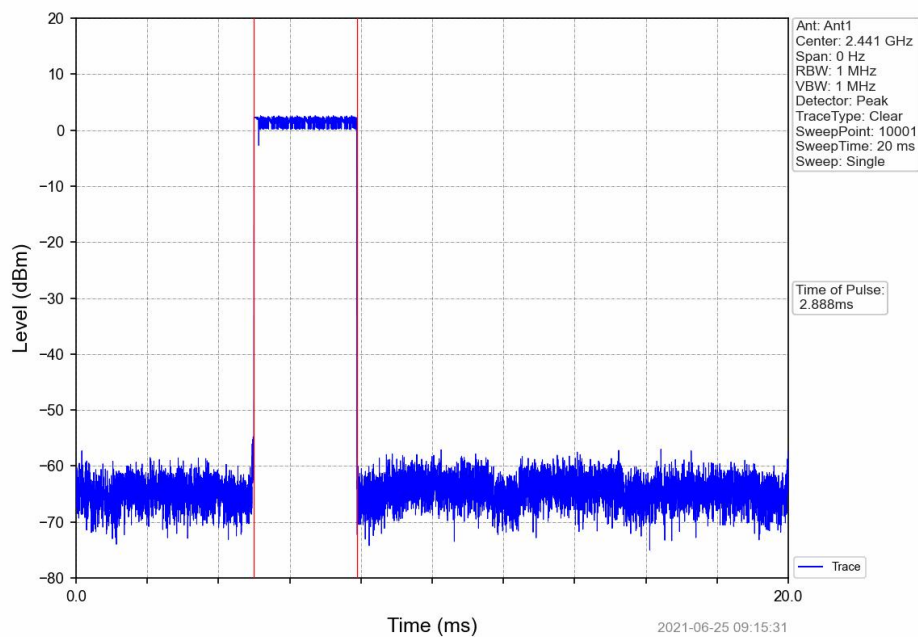
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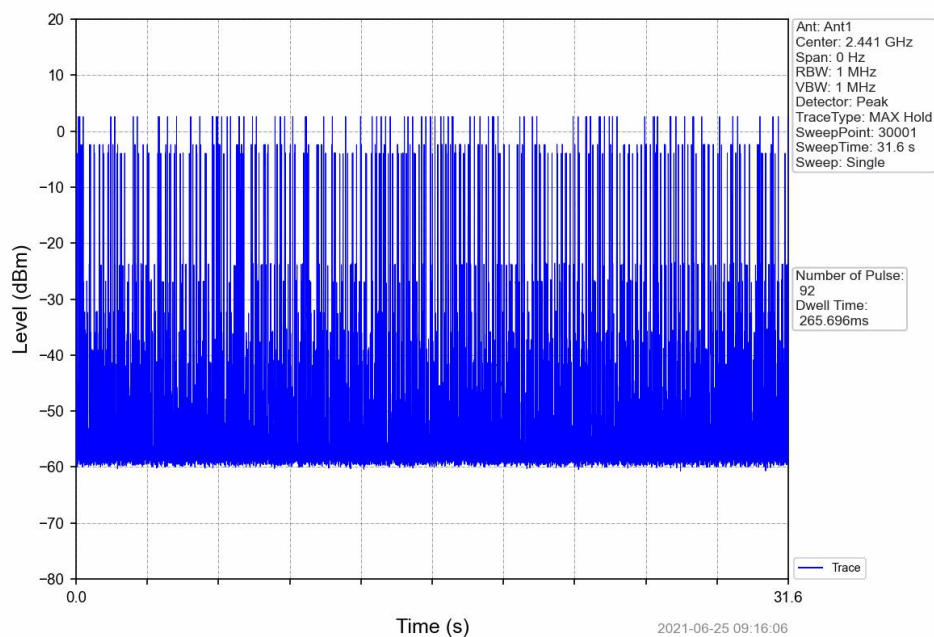
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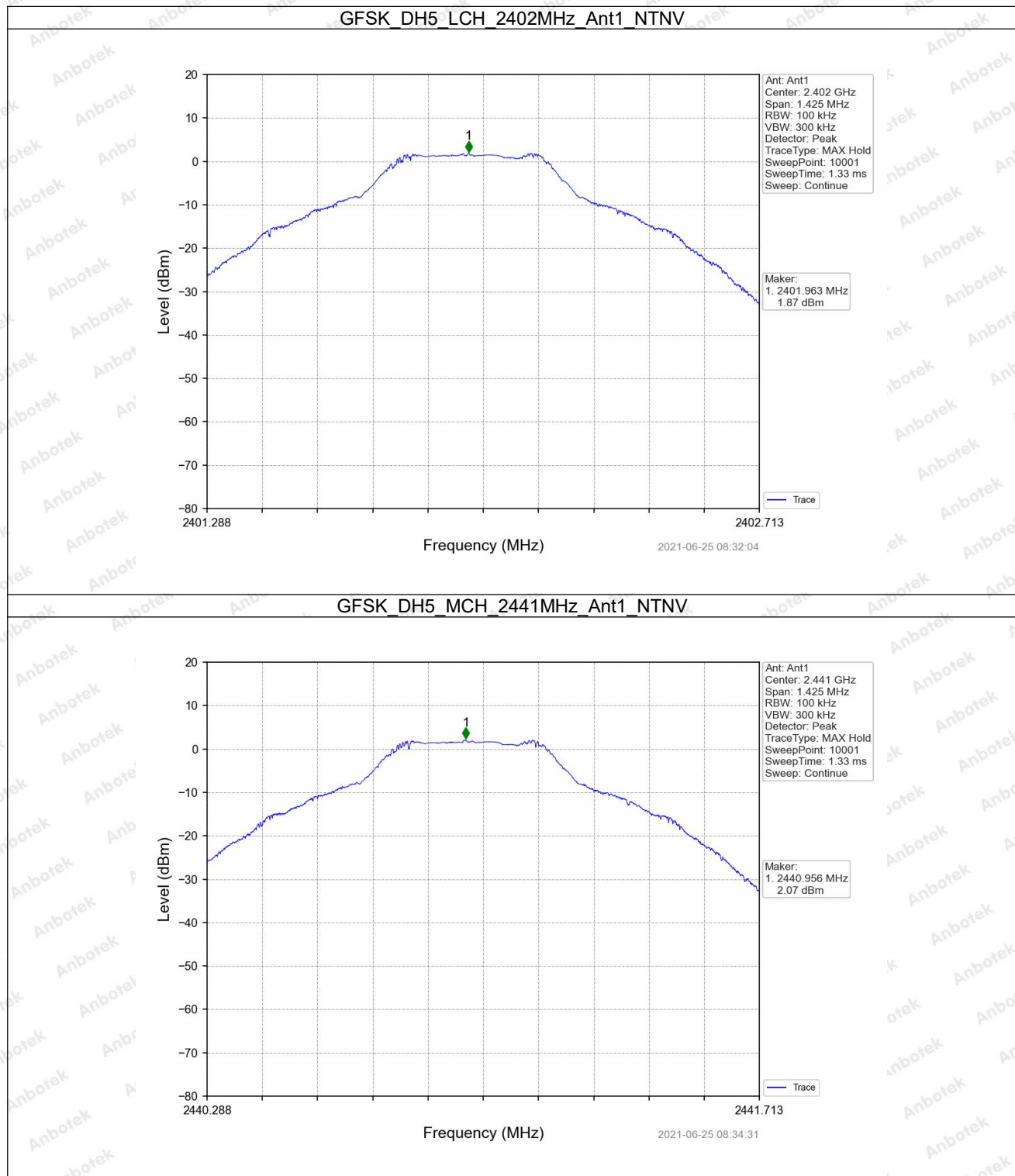
6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

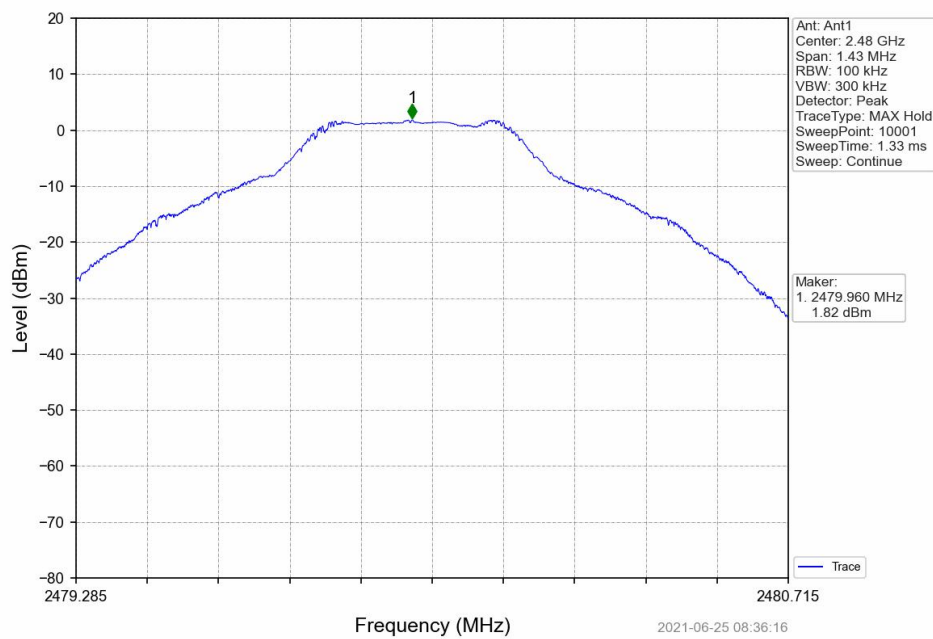
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.87	/	/
		2441	DH5	1	2.07	/	/
		2480	DH5	1	1.82	/	/
Pi/4DQPSK	SISO	2402	2DH5	1	1.99	/	/
		2441	2DH5	1	2.21	/	/
		2480	2DH5	1	1.98	/	/
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.							
Note2: Only for Report Use							

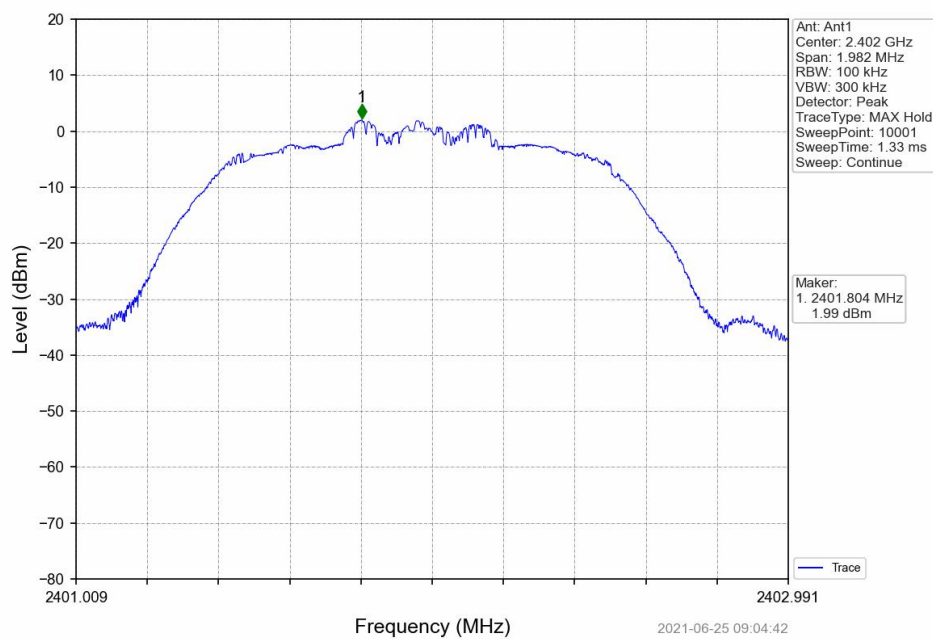
6.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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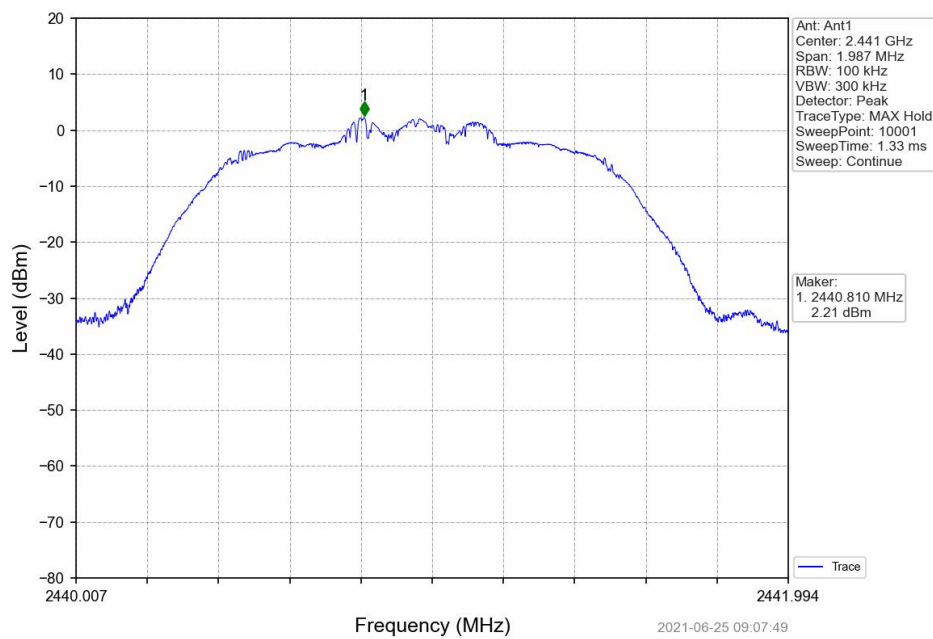


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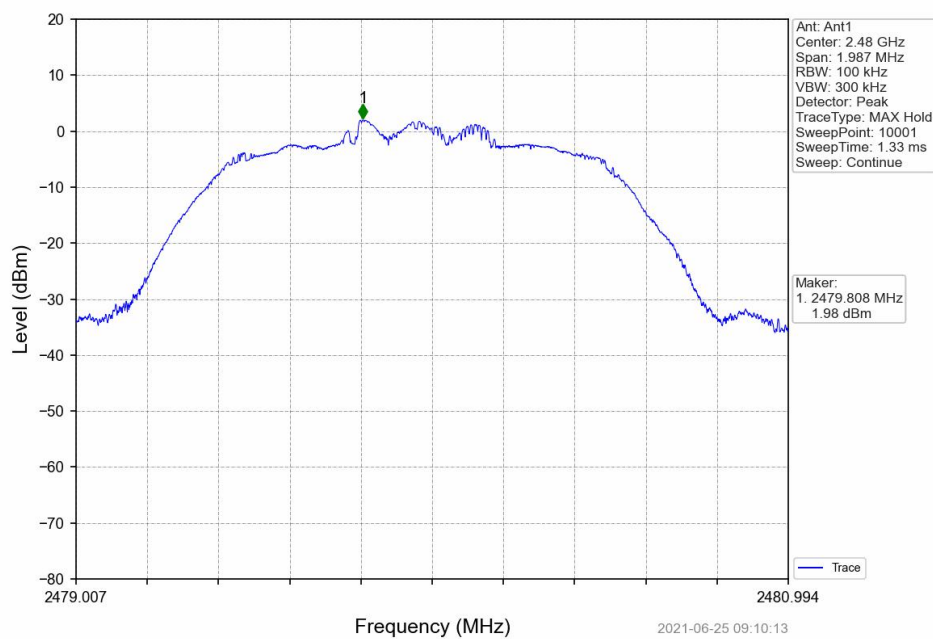
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

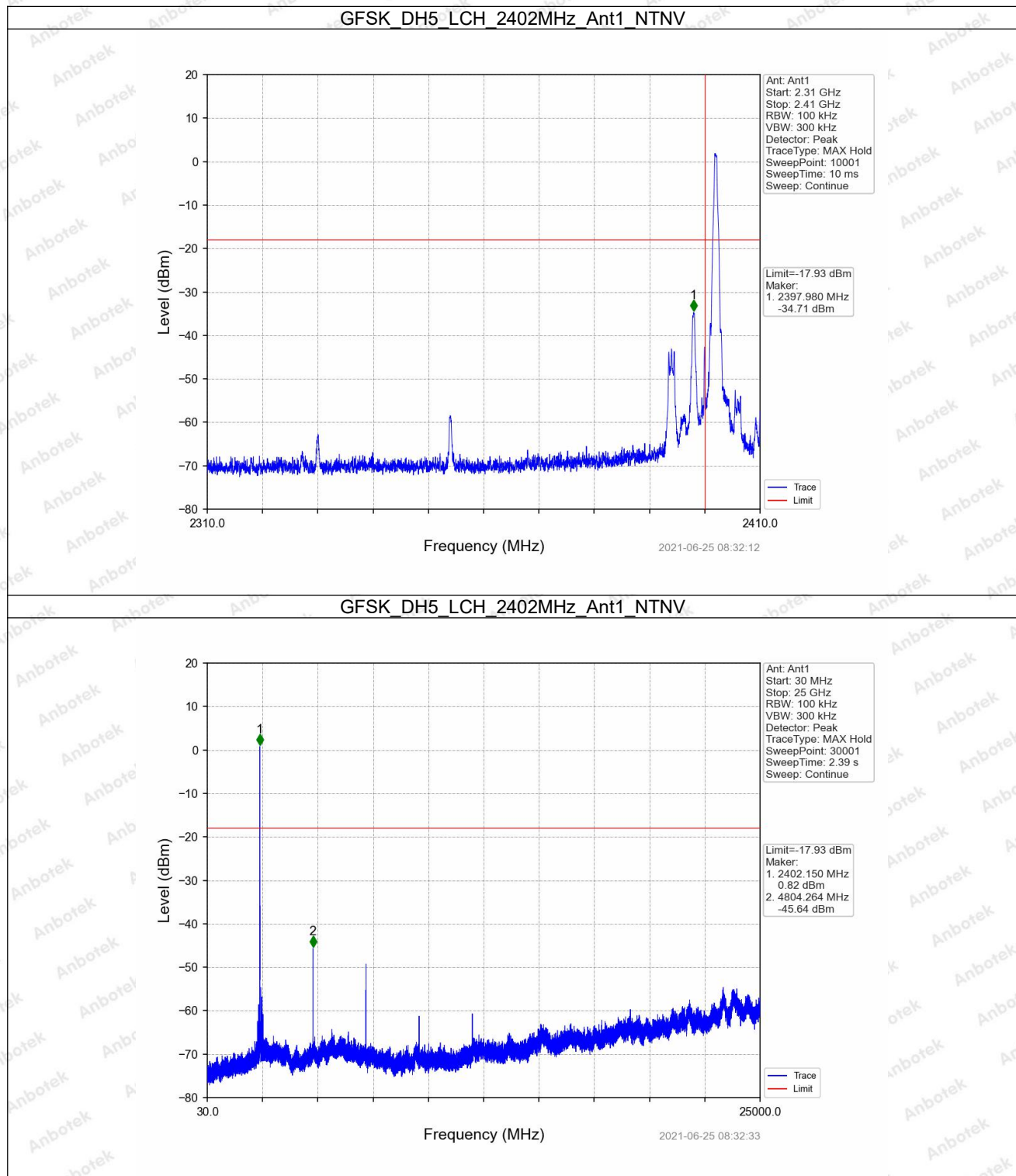


6.2 CSE

6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
Pi/4DQPSK	SISO	2402	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.							
Note2: Only for Report Use							

6.2.2 Test Graph

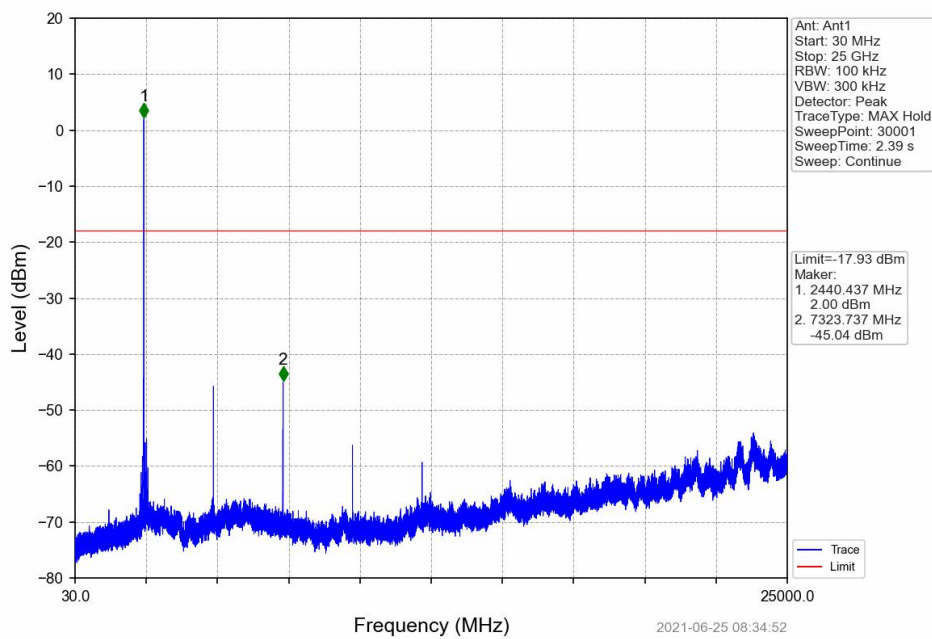


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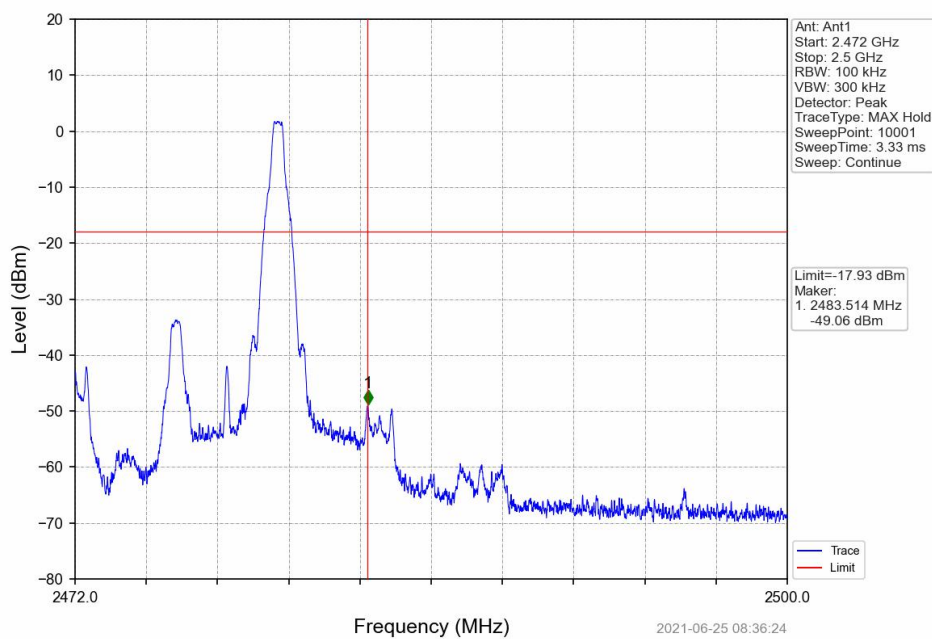
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



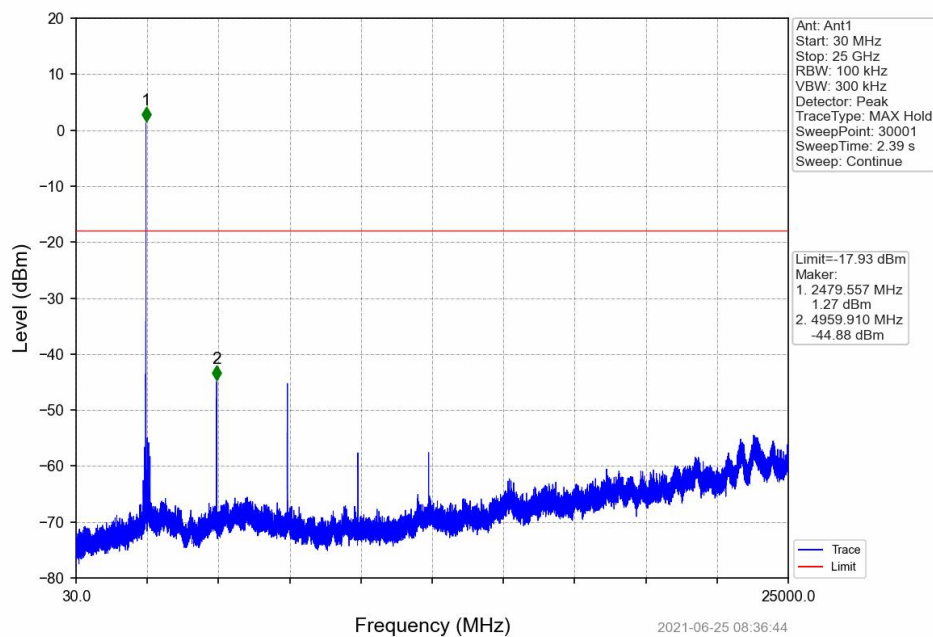
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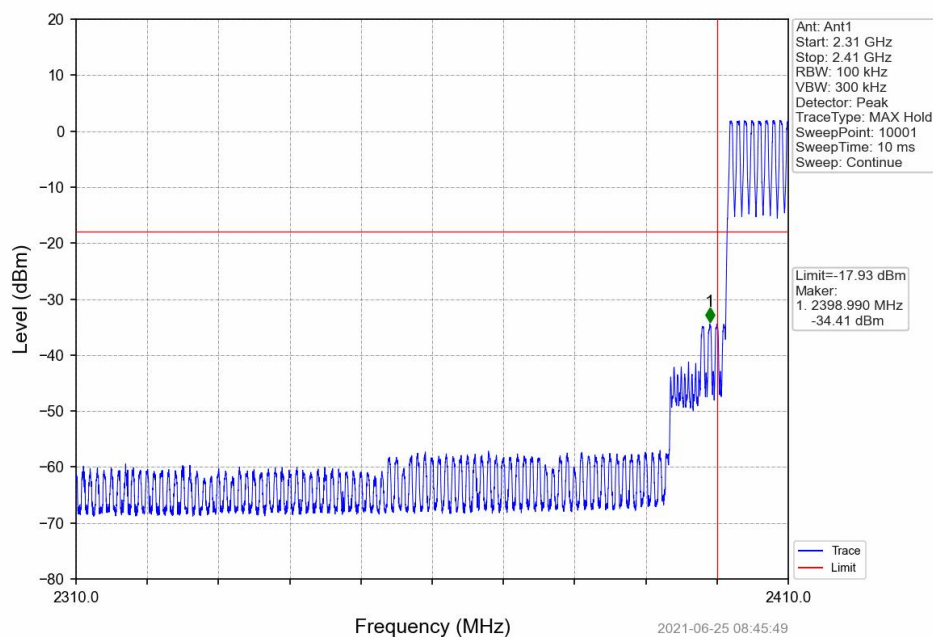
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GFSK_DH5_HOPP_Ant1_NTNV

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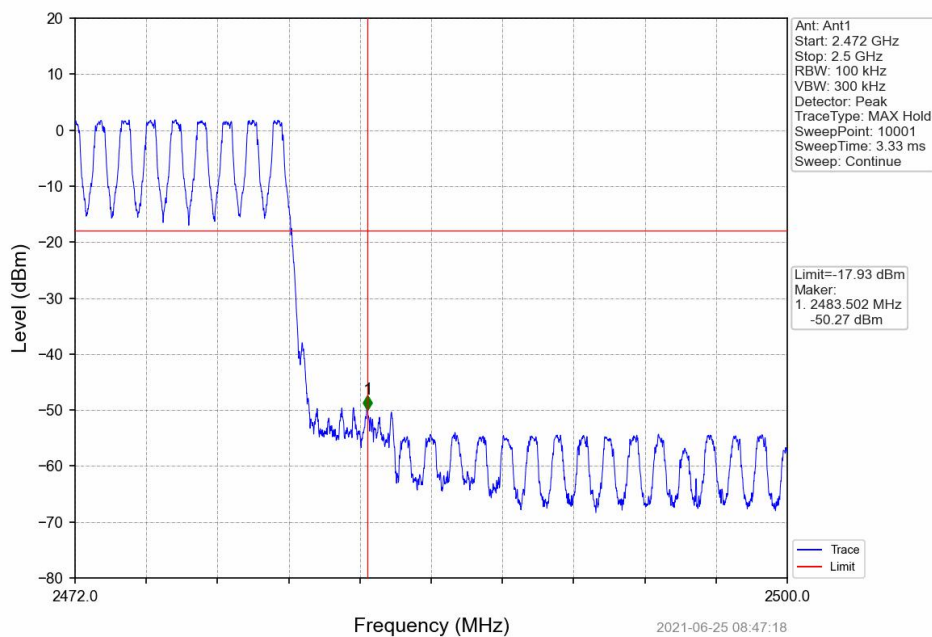


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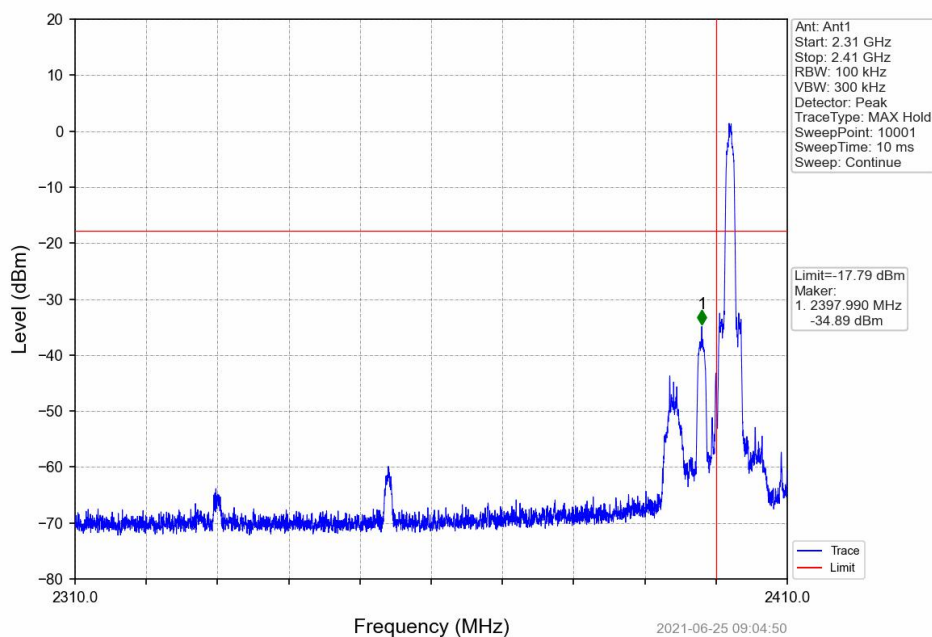
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



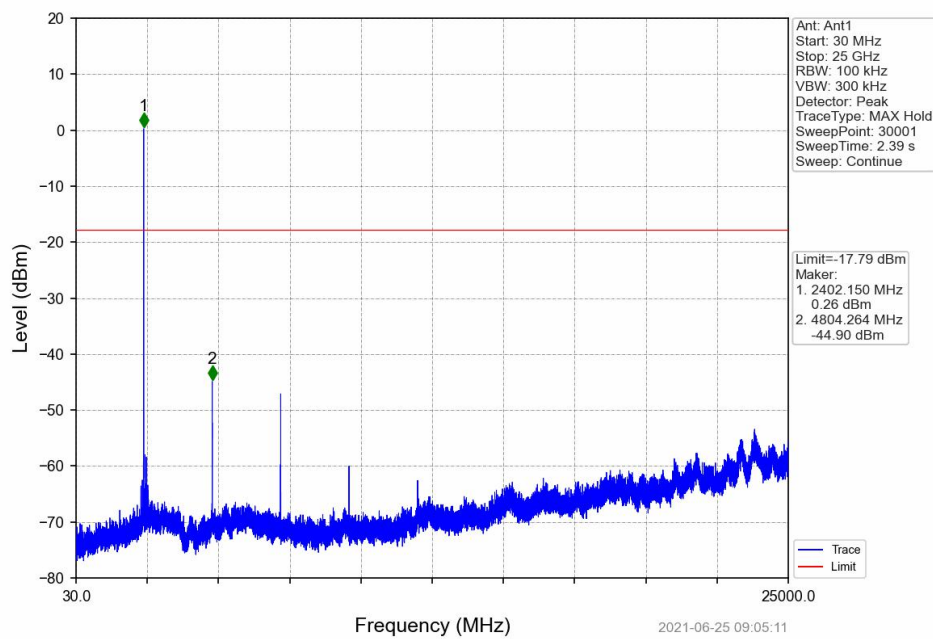
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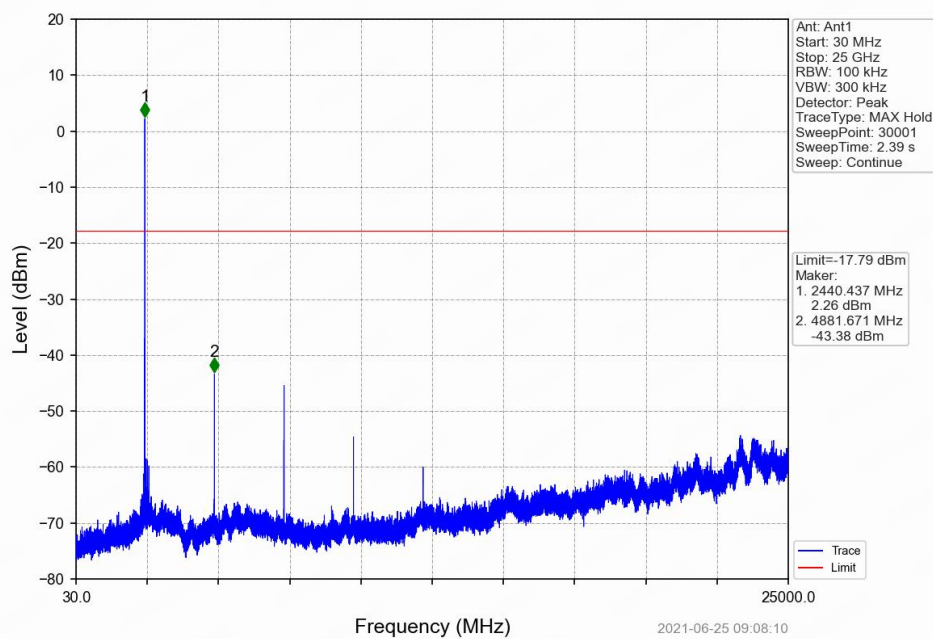
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

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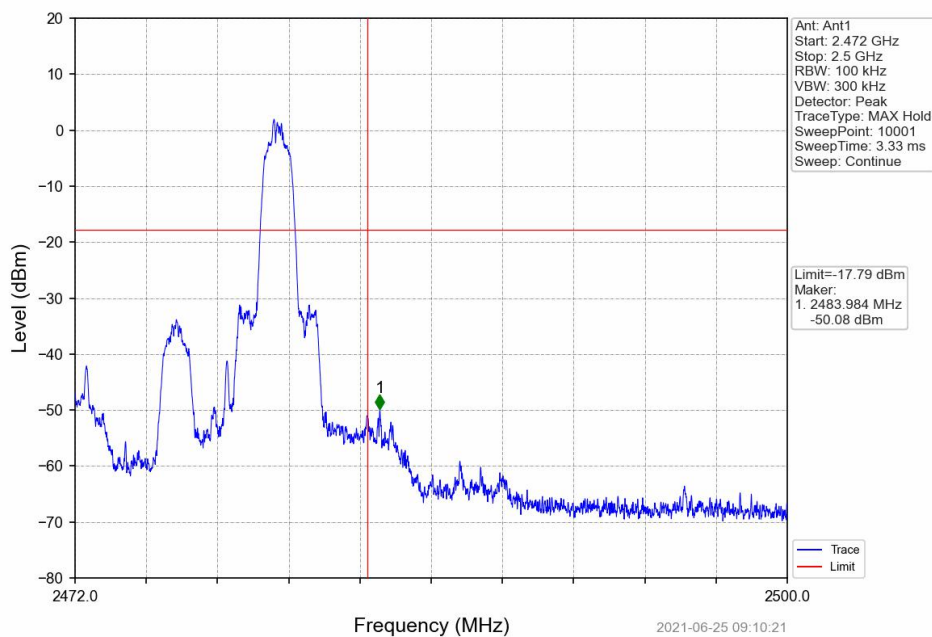
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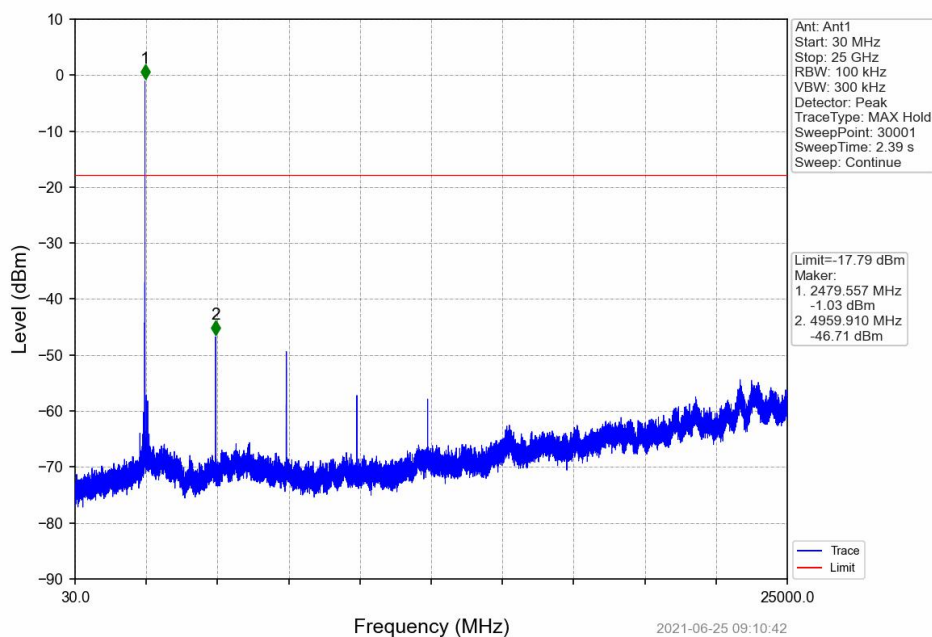
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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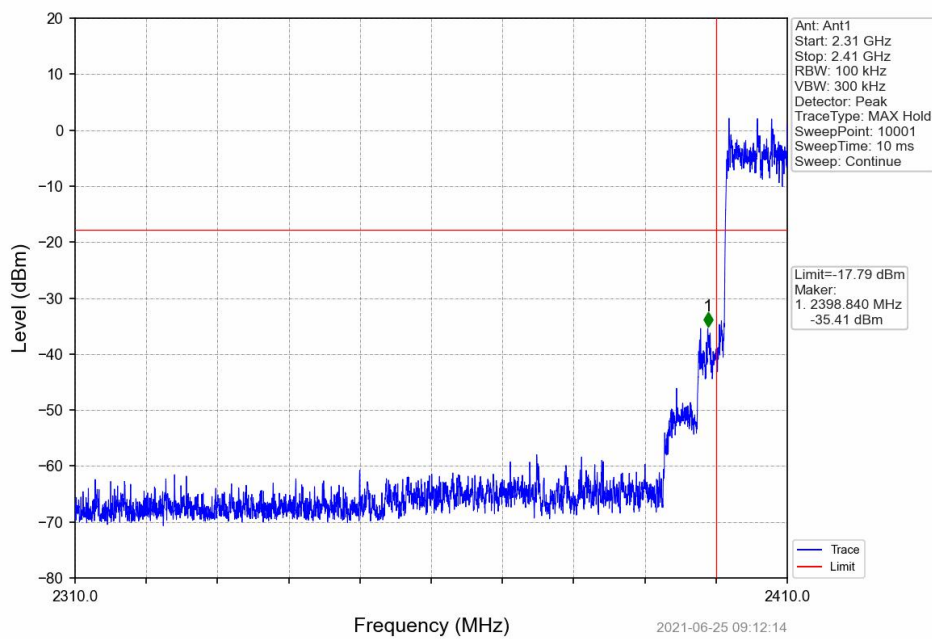


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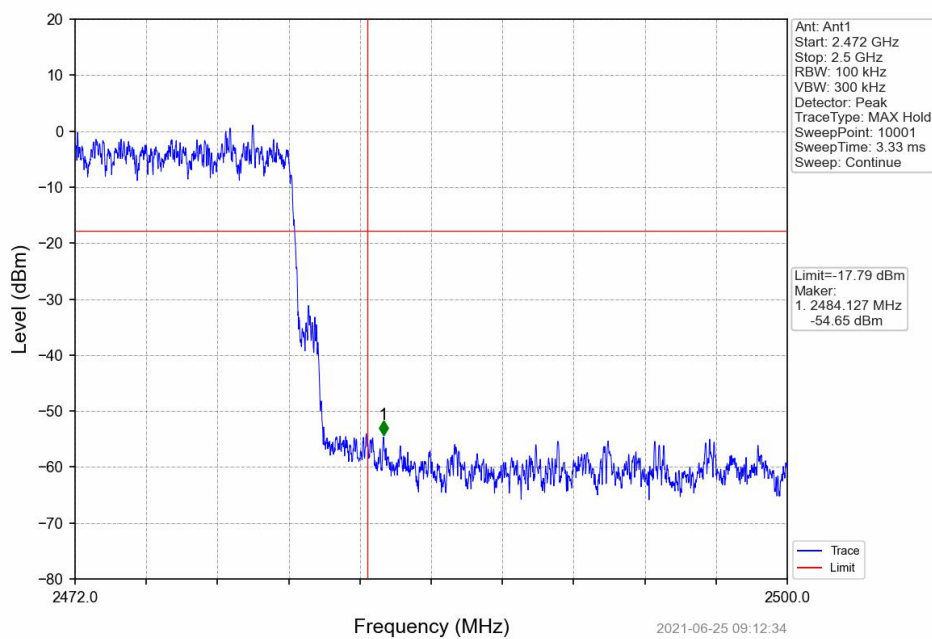
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



---End---

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