



Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Headset

Trade Mark: N/A

Test Model: A6S

Environmental Conditions

Temperature:	25.2°C
Relative Humidity:	51.2%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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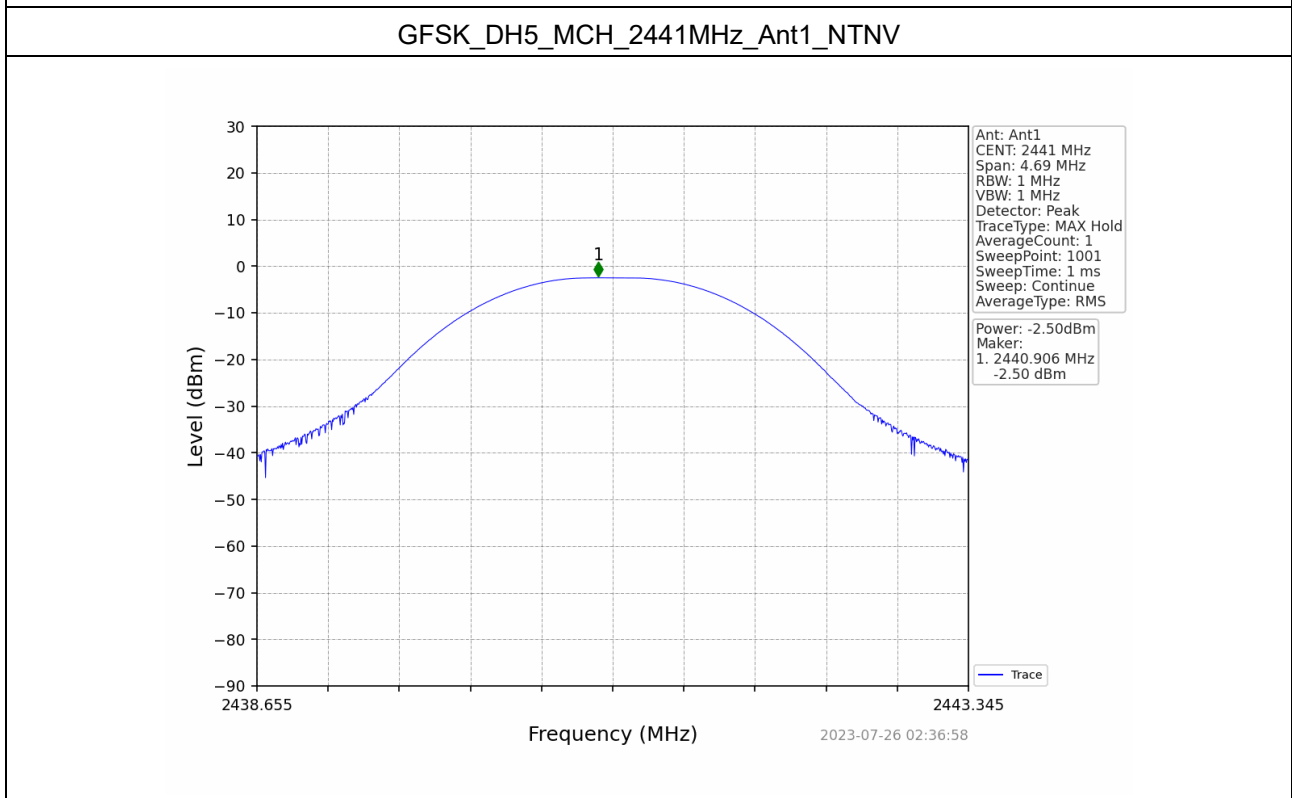
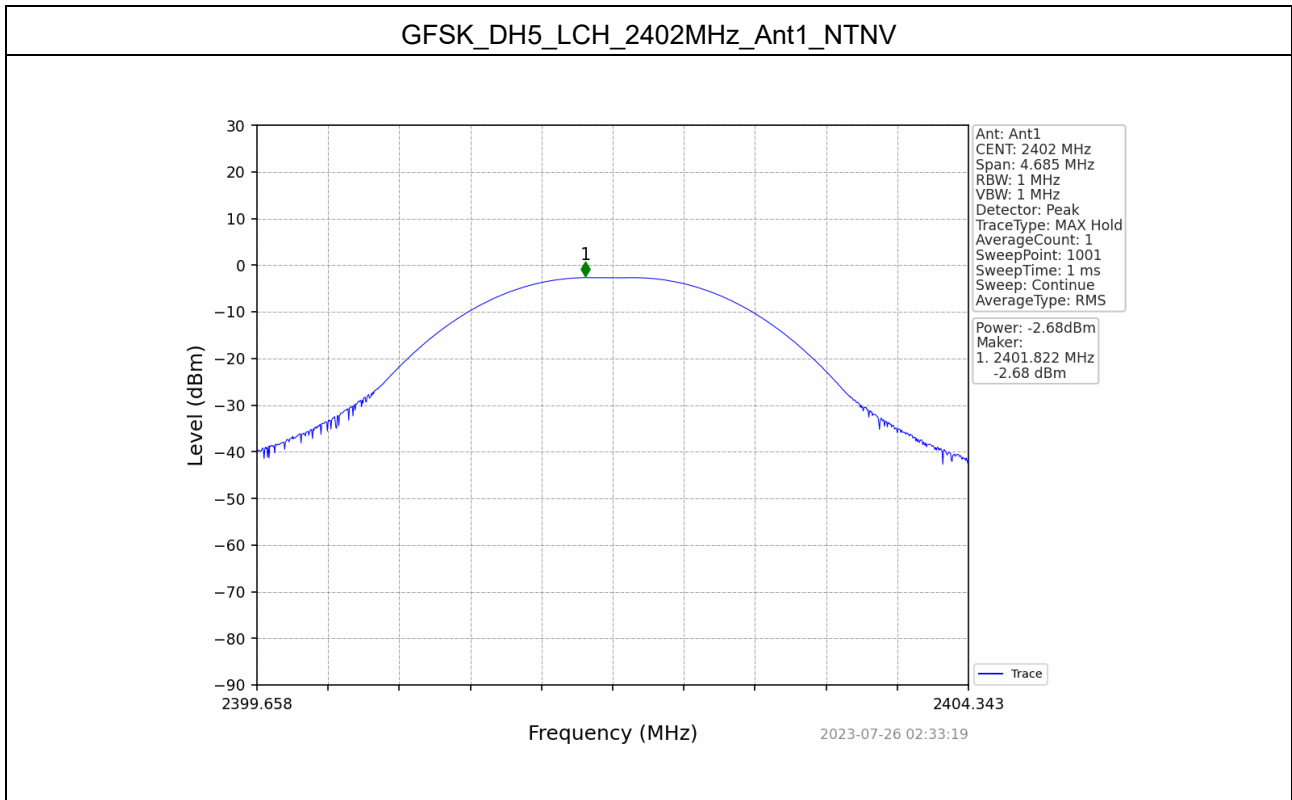
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1 Maximum Conducted Peak Output Power

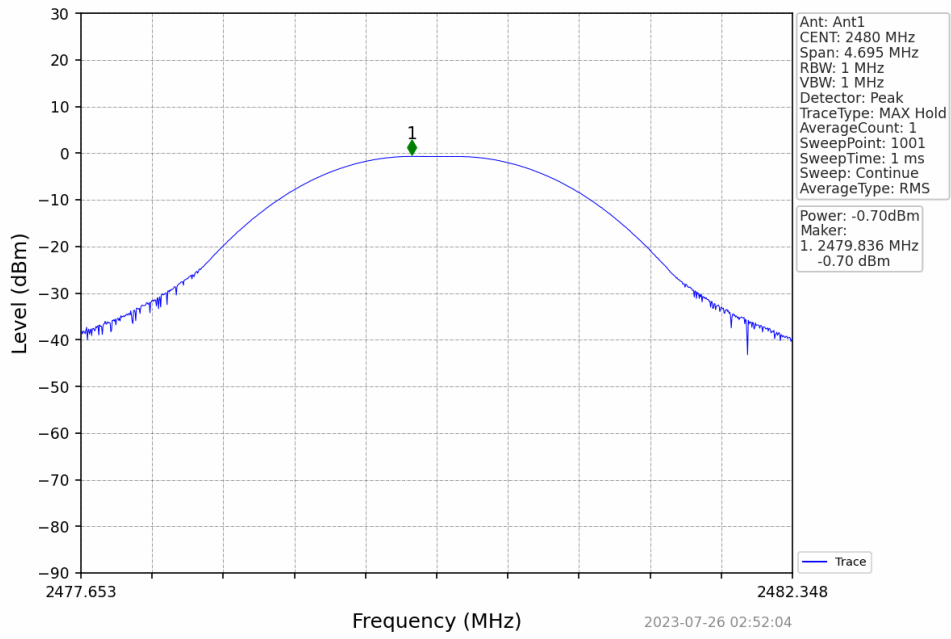
1.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-2.68	21	Pass
	MCH	-2.50	21	Pass
	HCH	-0.70	21	Pass
$\pi/4$ -DQPSK	LCH	-0.31	21	Pass
	MCH	-0.10	21	Pass
	HCH	1.49	21	Pass

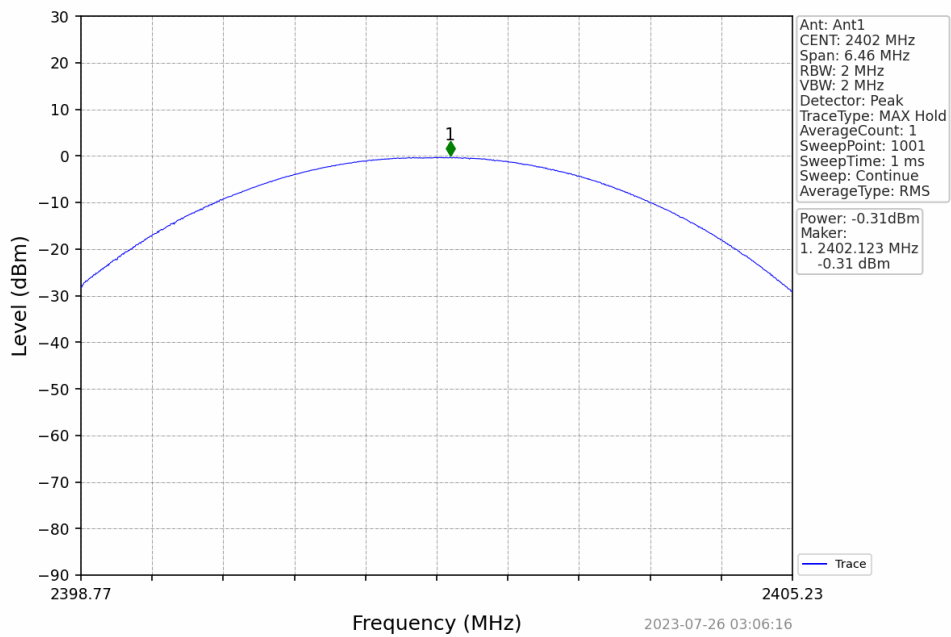
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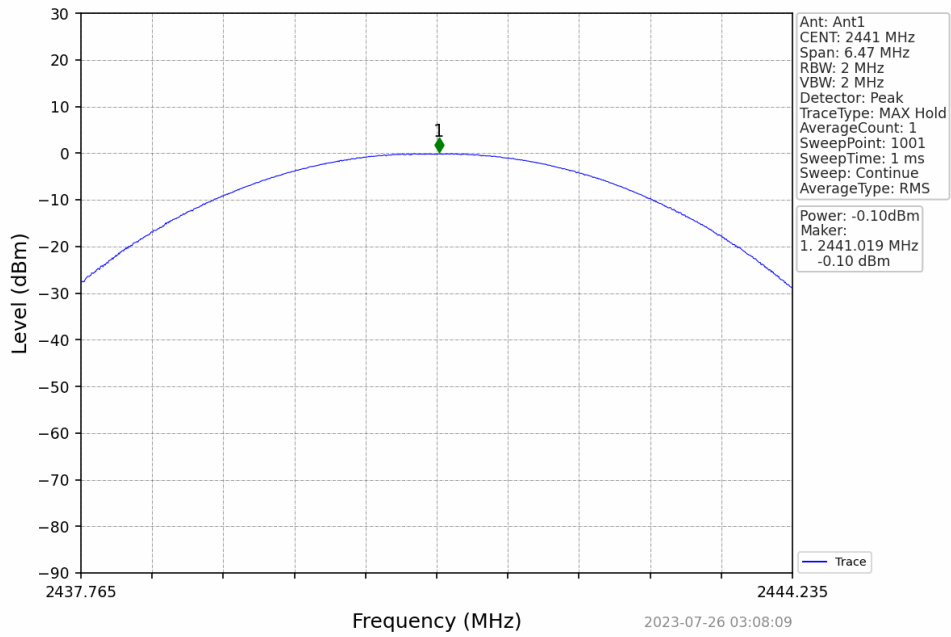
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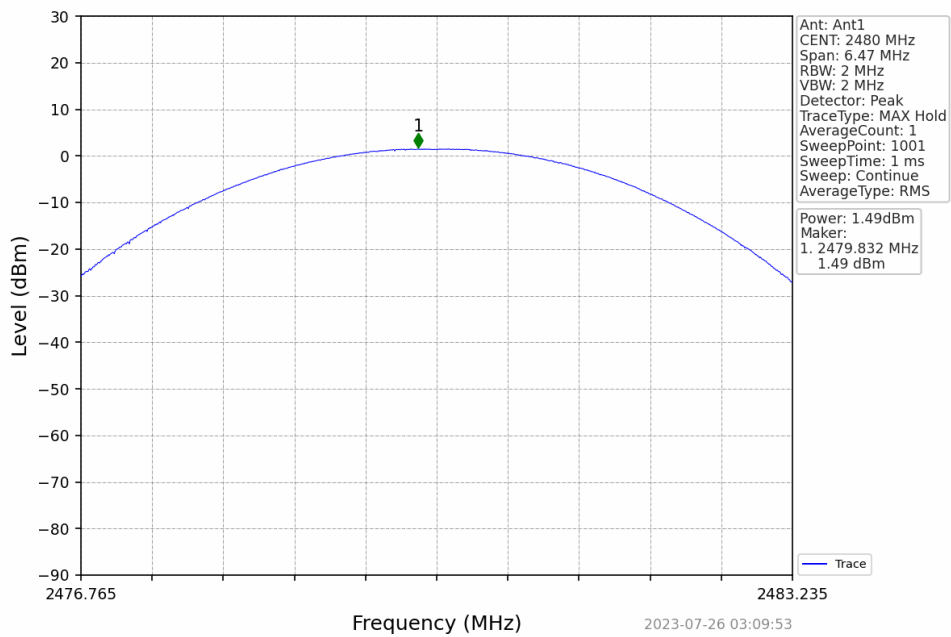
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

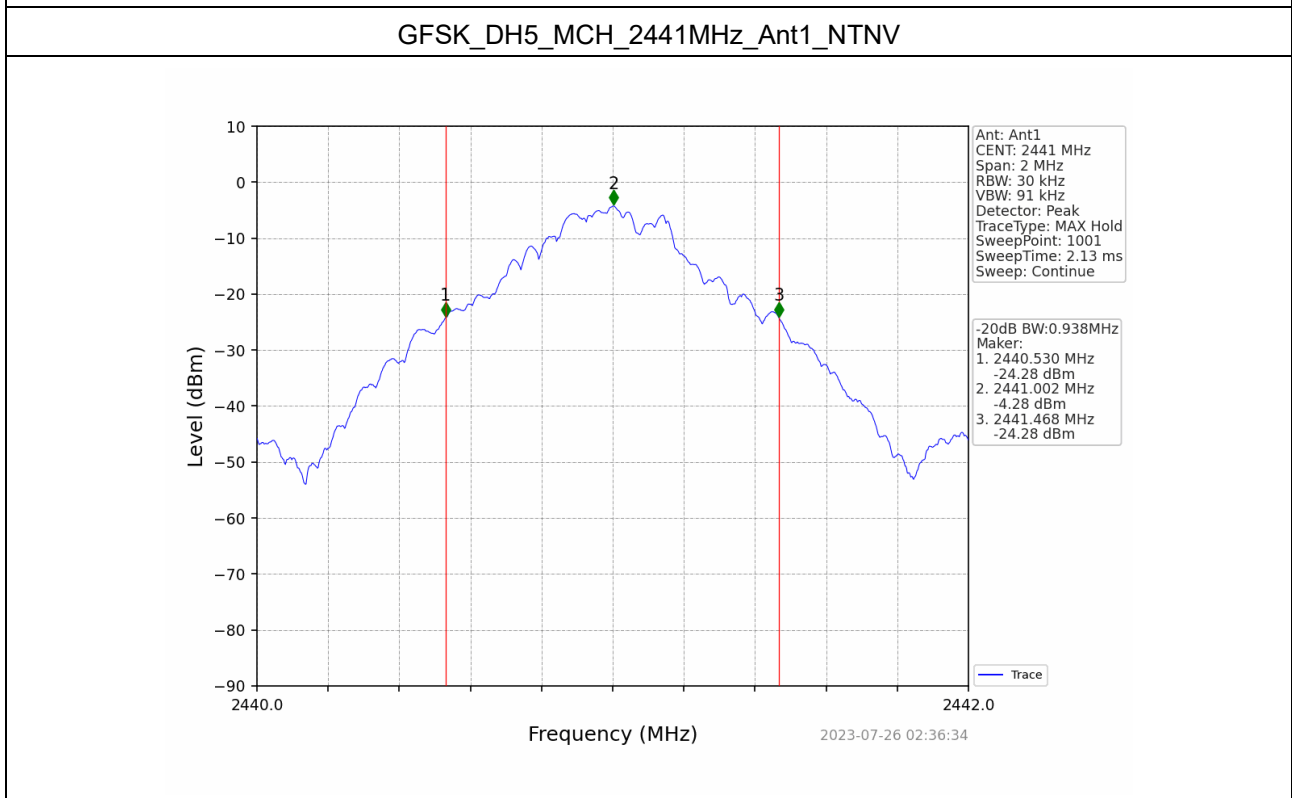
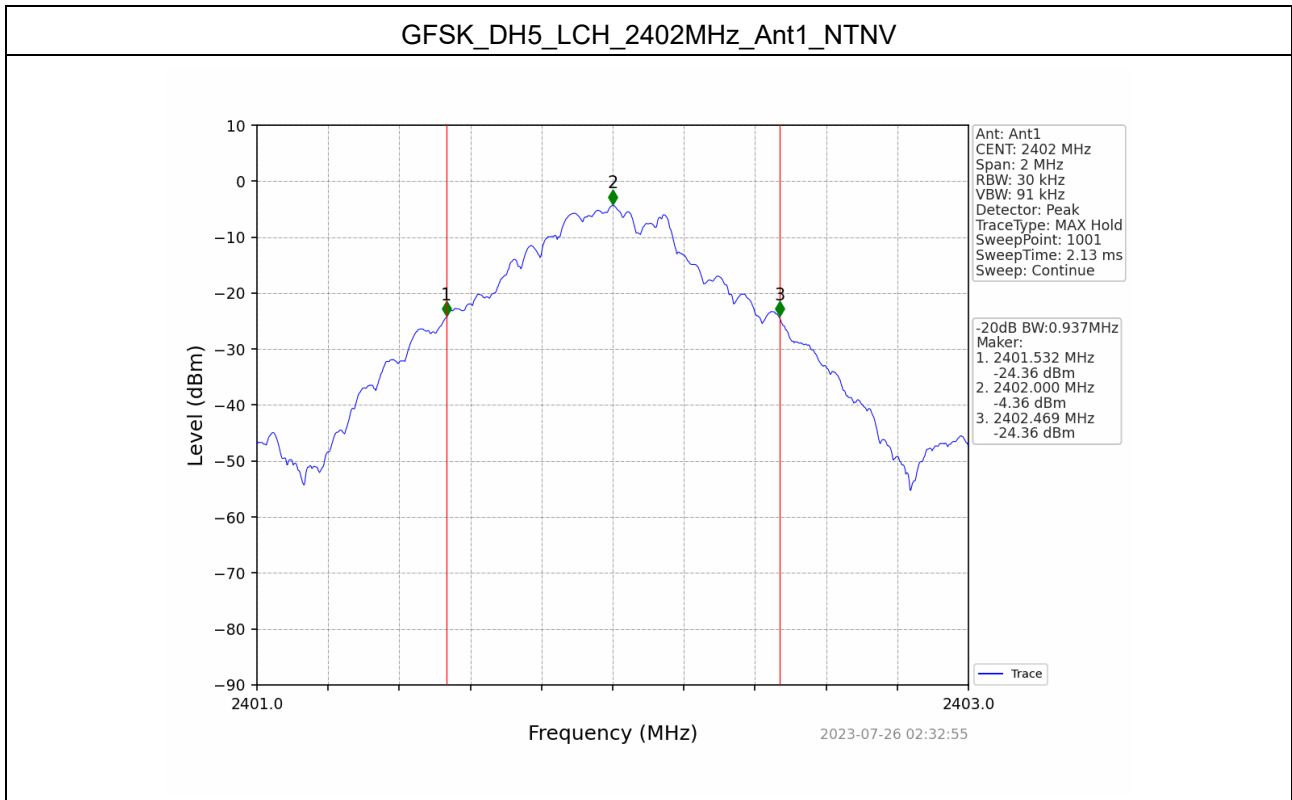


2 20dB Bandwidth

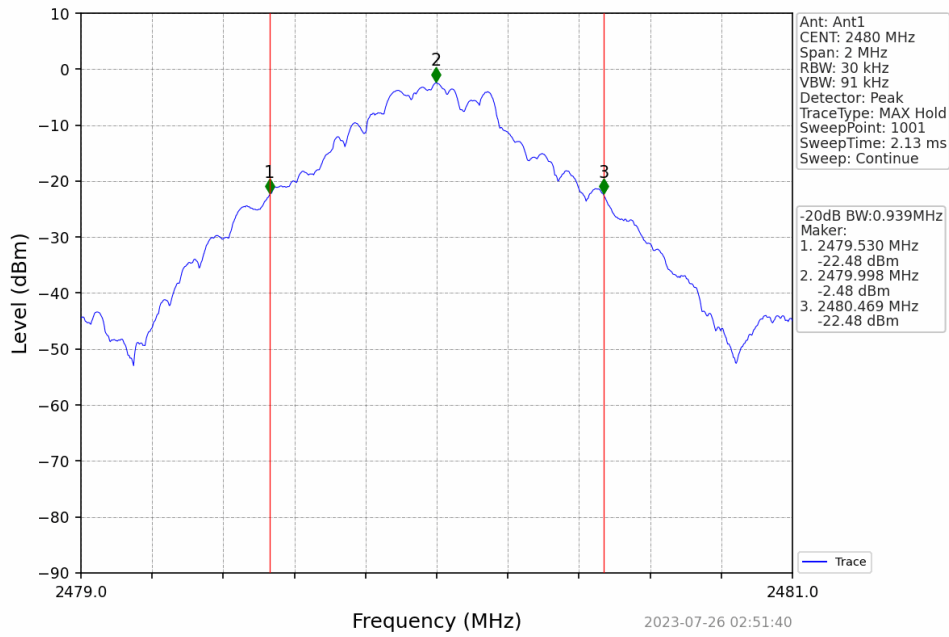
2.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.937	Not Specified	Pass
	MCH	0.938	Not Specified	Pass
	HCH	0.939	Not Specified	Pass
$\pi/4$ -DQPSK	LCH	1.292	Not Specified	Pass
	MCH	1.294	Not Specified	Pass
	HCH	1.294	Not Specified	Pass

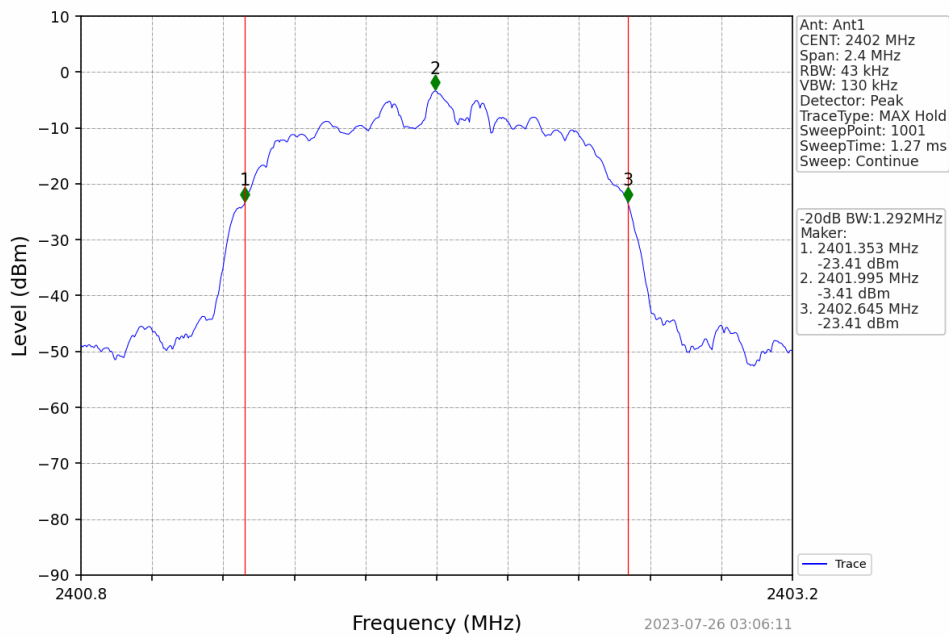
2.2 Test Graphs



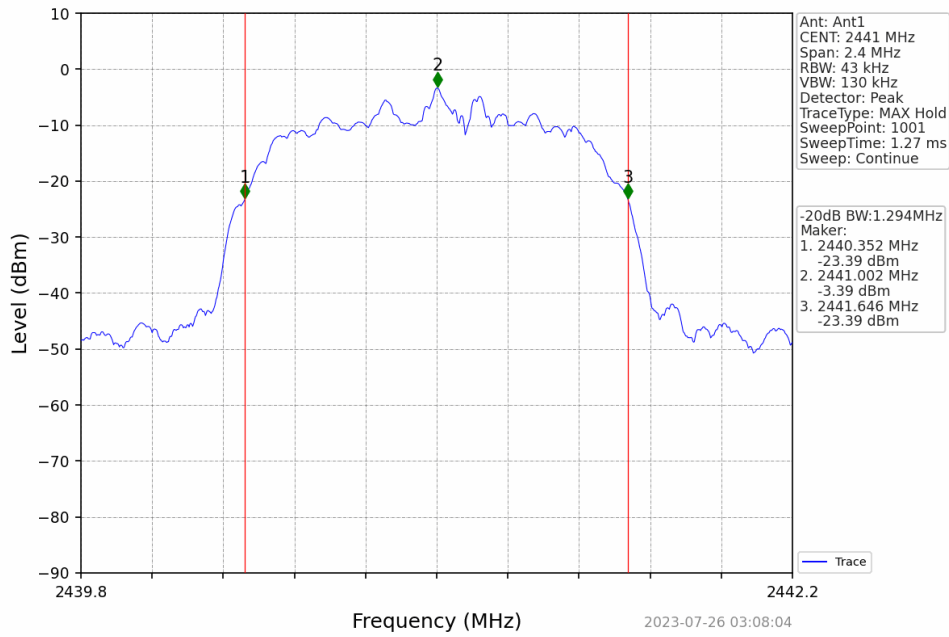
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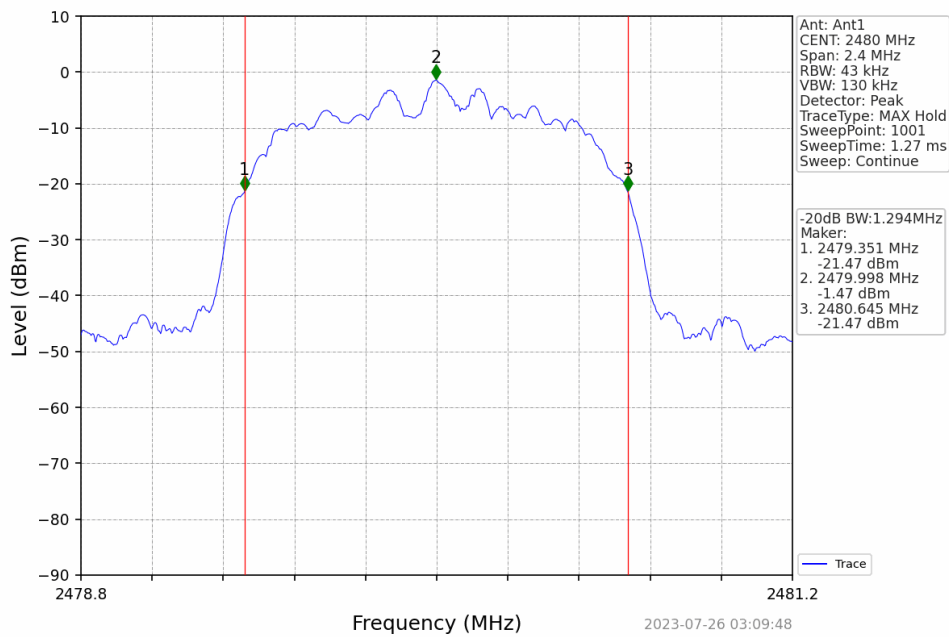
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

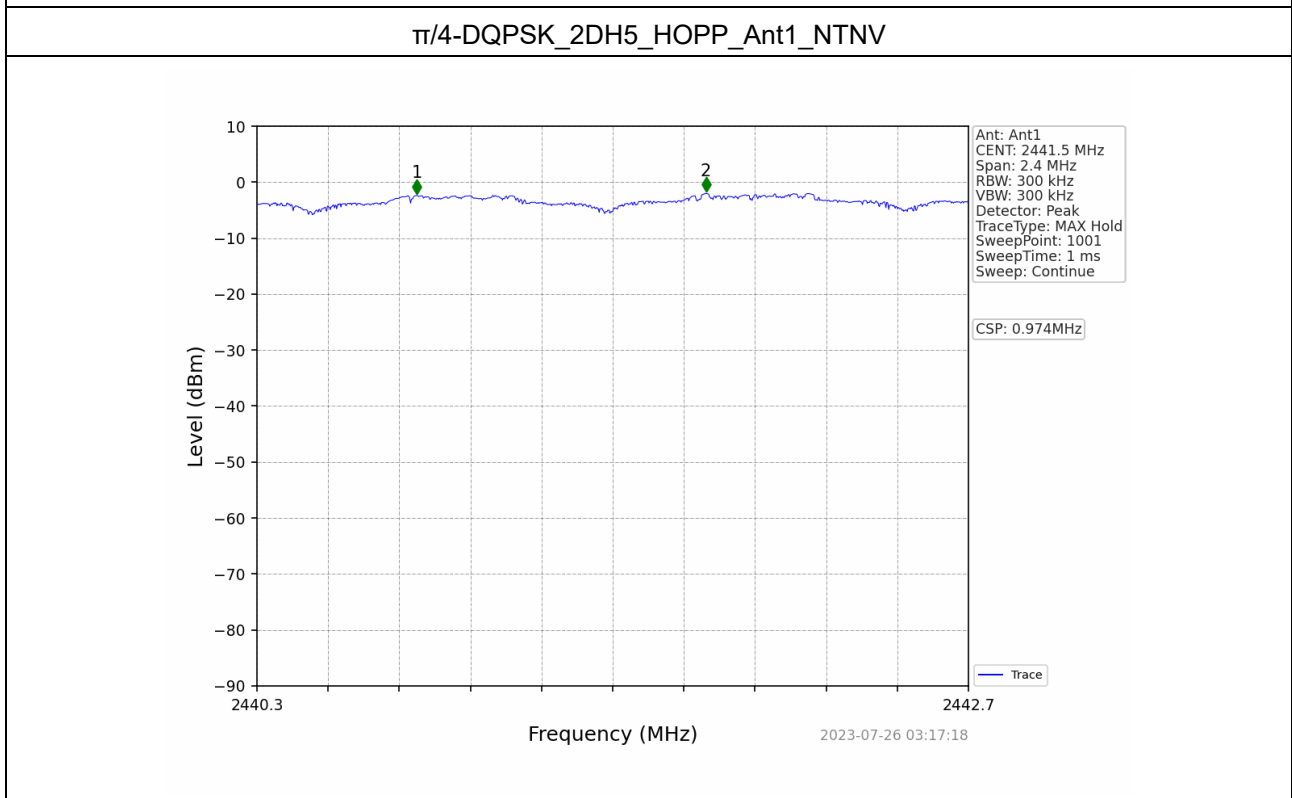
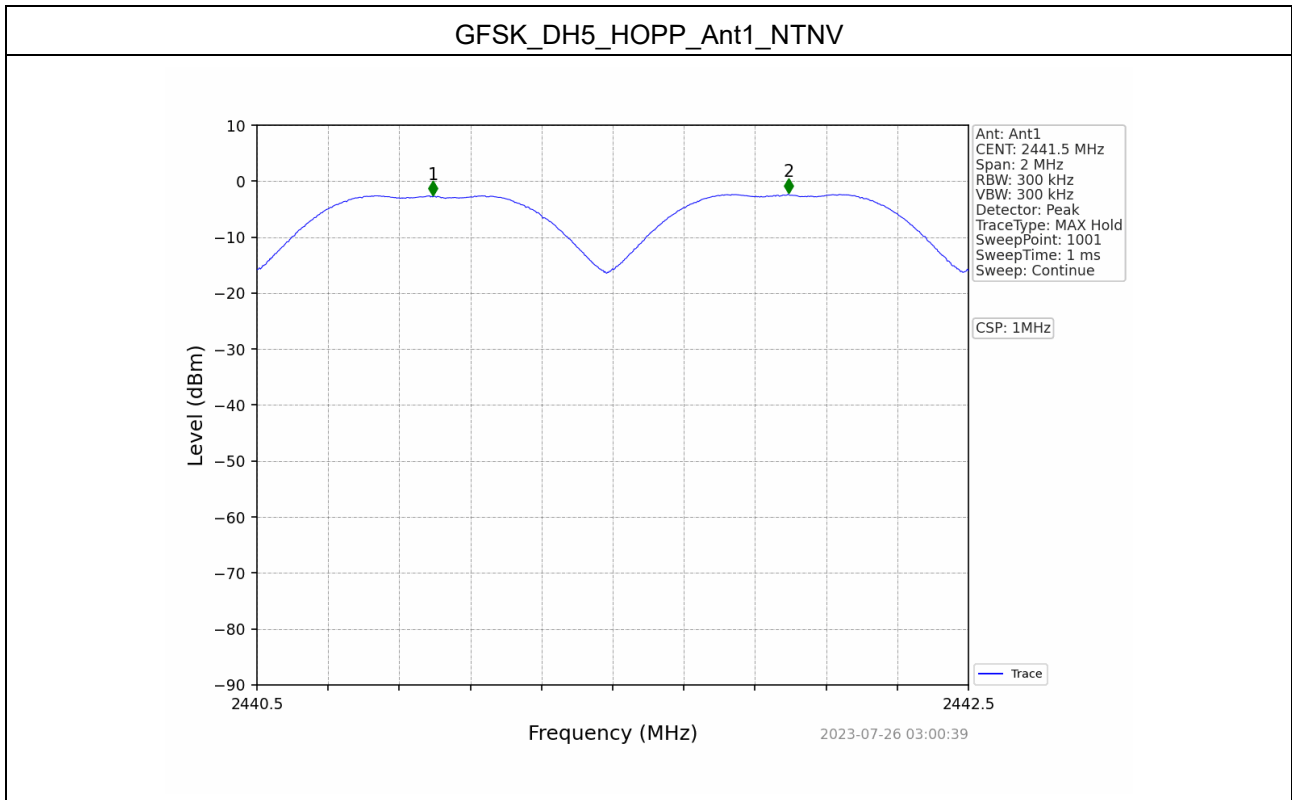


3 Carrier Frequency Separation

3.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	20dB Bandwidth (MHz)	Limit [MHz]	Verdict
GFSK	MCH	1.000	0.939	≥ 0.939	Pass
$\pi/4$ -DQPSK	MCH	0.974	1.294	≥ 0.863	Pass

3.2 Test Graphs

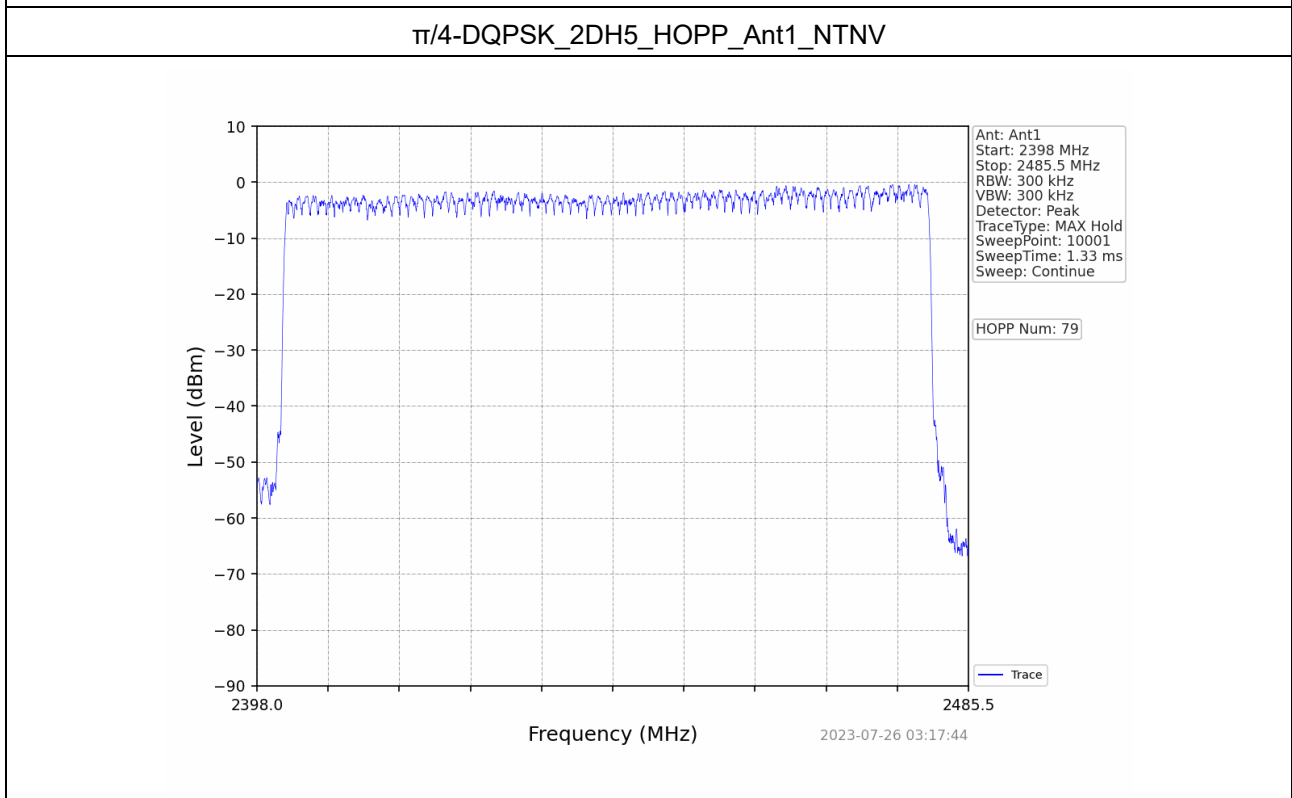
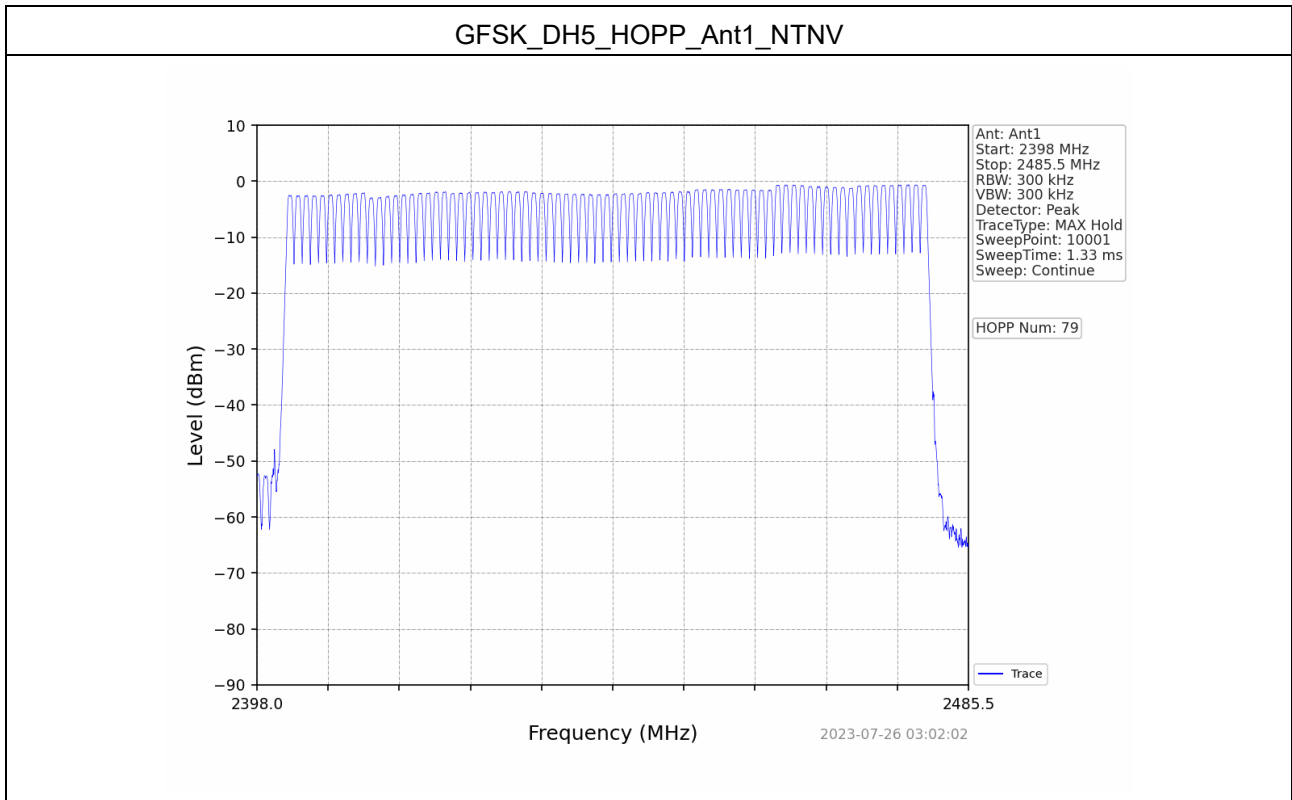


4 Hopping Channel Number

4.1 Test Result

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ -DQPSK	Hop	79	≥ 15	PASS

4.2 Test Graphs

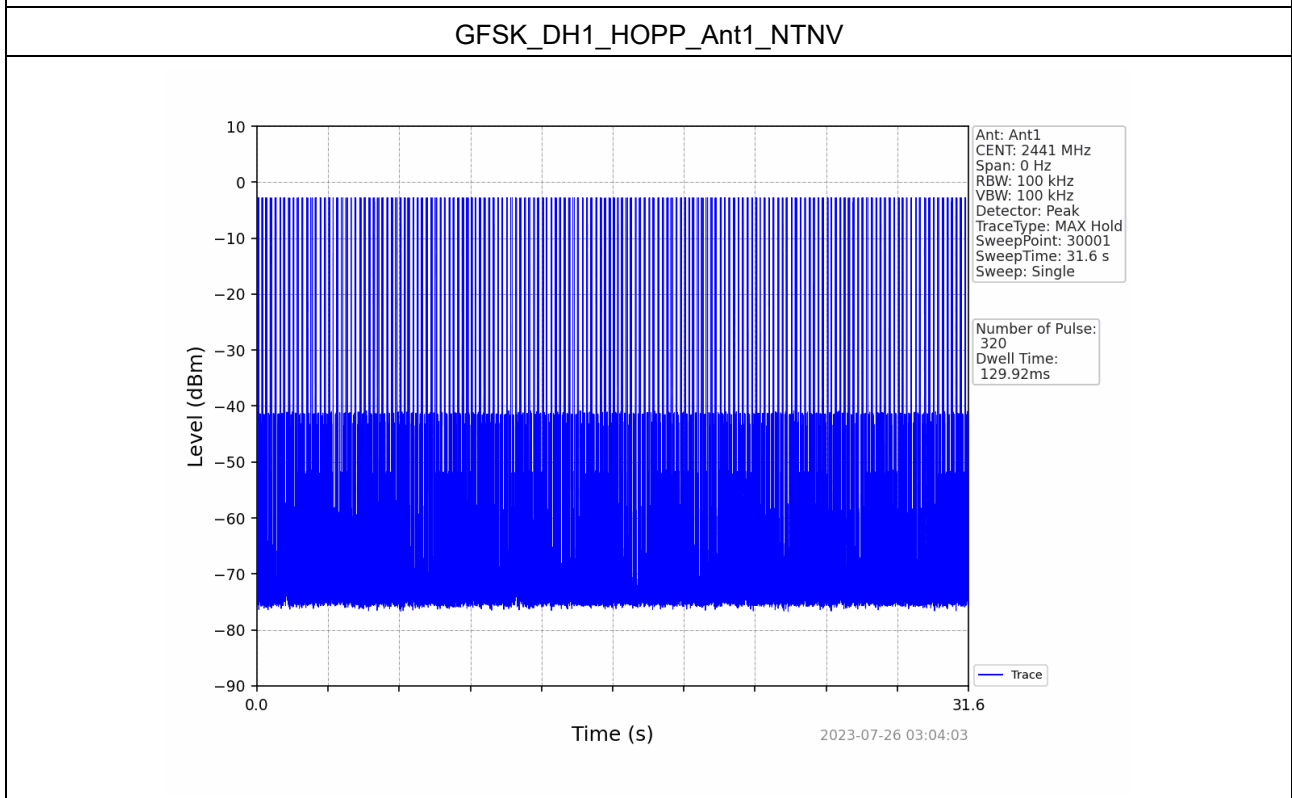
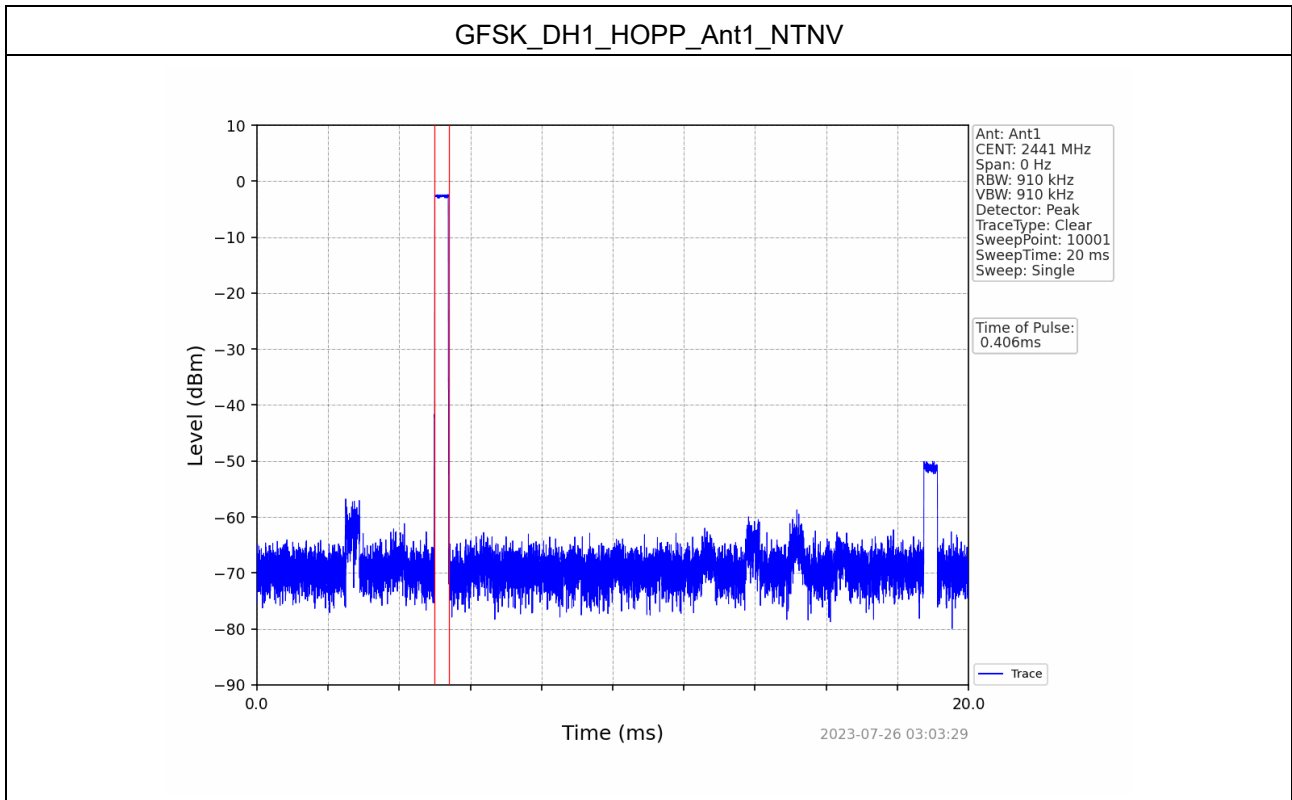


5 Dwell Time

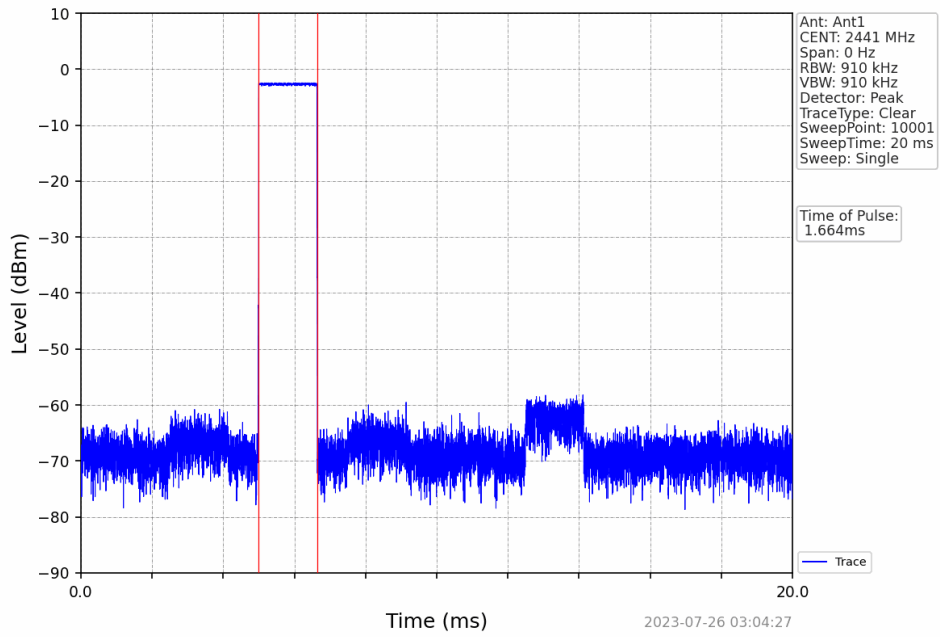
5.1 Test Result

Mode	Packet	Channel	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	DH5	LCH	0.406	31.600	320	129.920	<=400	Pass
		MCH	1.664	31.600	153	254.592	<=400	Pass
		HCH	2.910	31.600	124	360.840	<=400	Pass
$\pi/4$ -DQPSK	2DH5	LCH	0.392	31.600	320	125.440	<=400	Pass
		MCH	1.644	31.600	151	248.244	<=400	Pass
		HCH	2.912	31.600	105	305.760	<=400	Pass

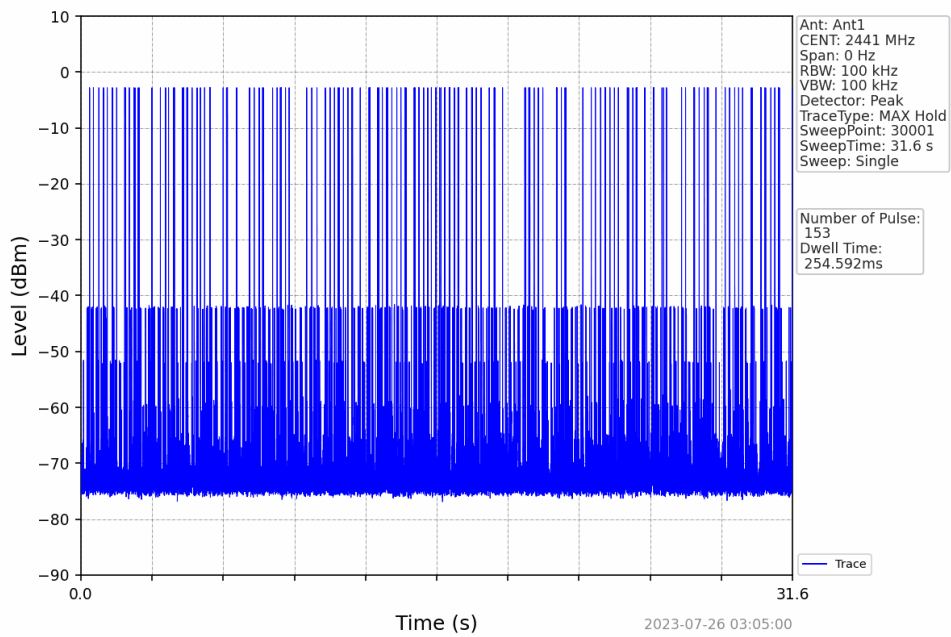
5.2 Test Graphs



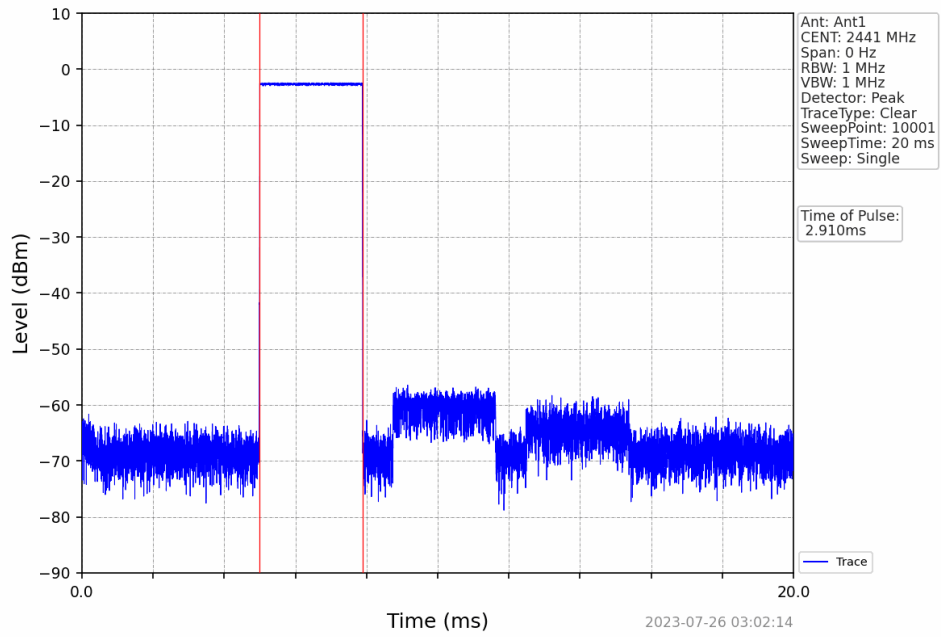
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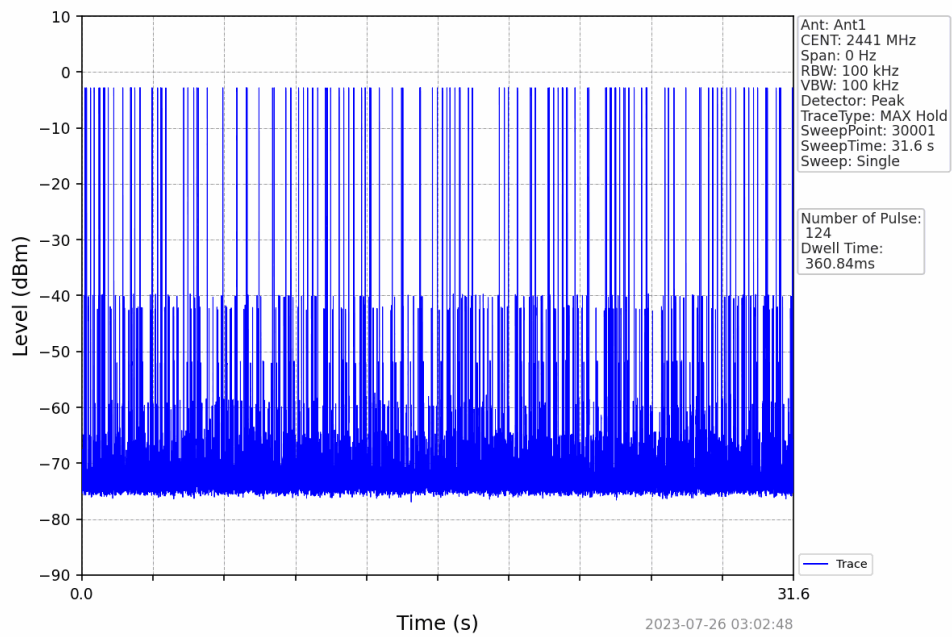
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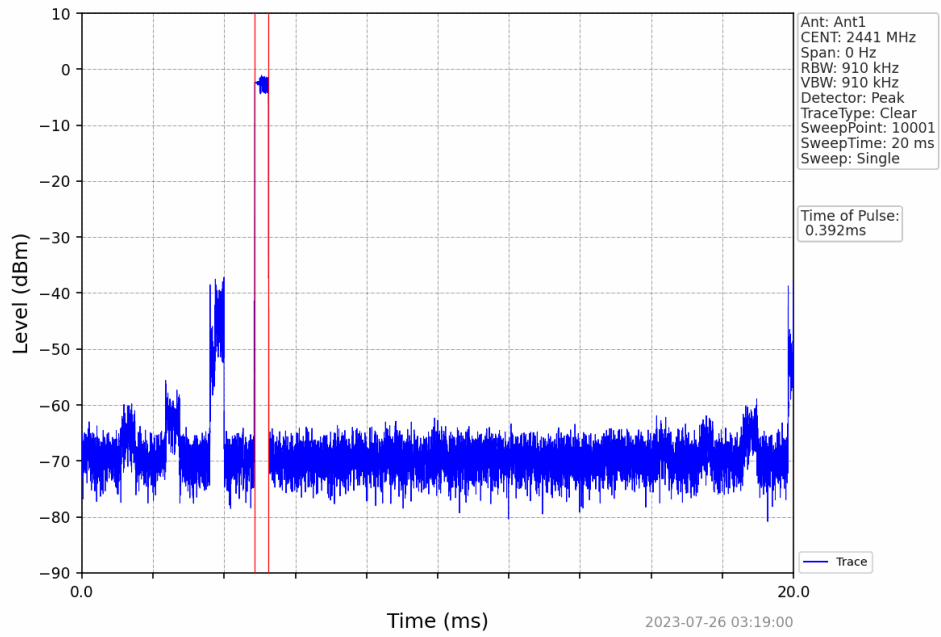
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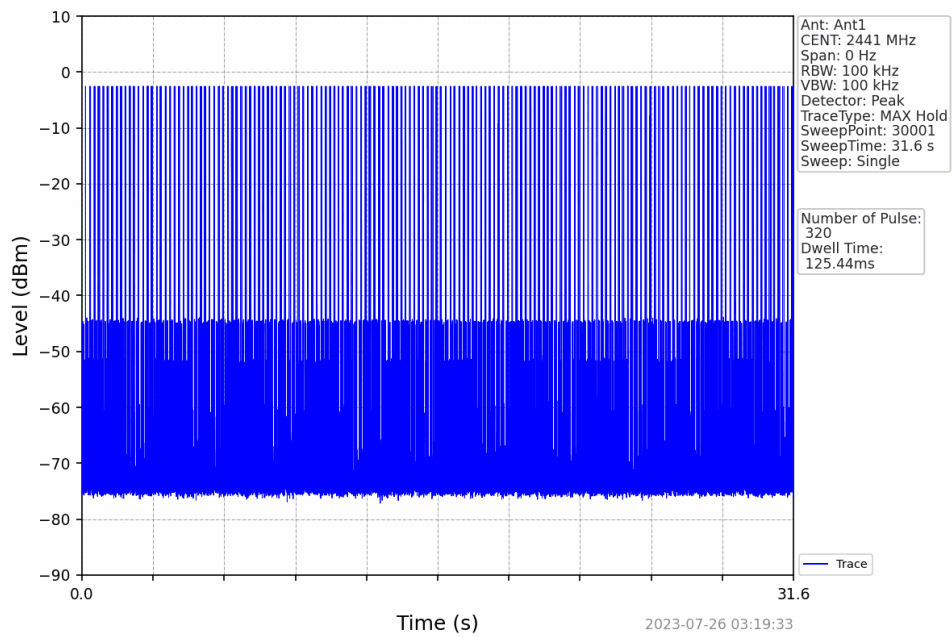
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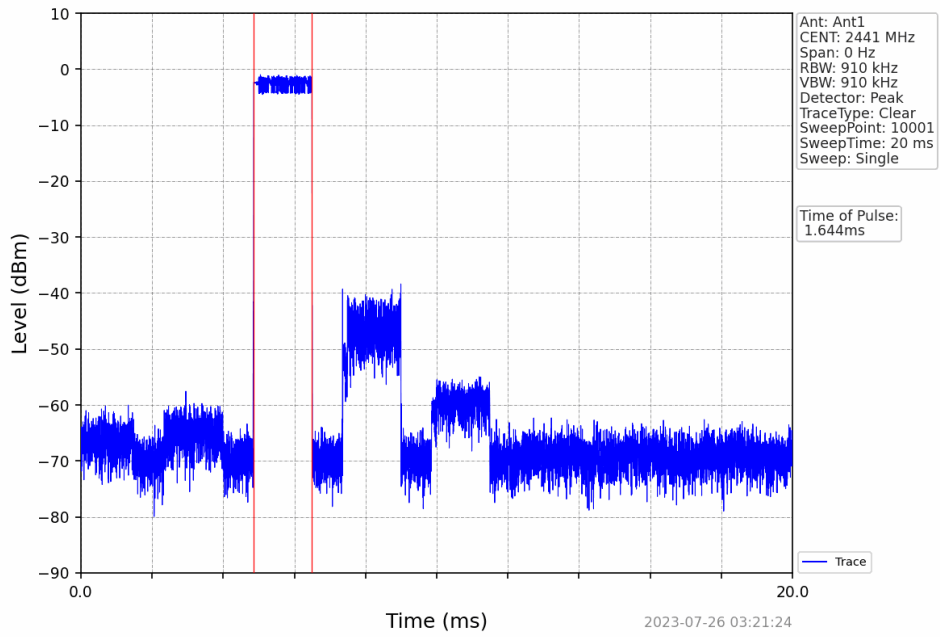
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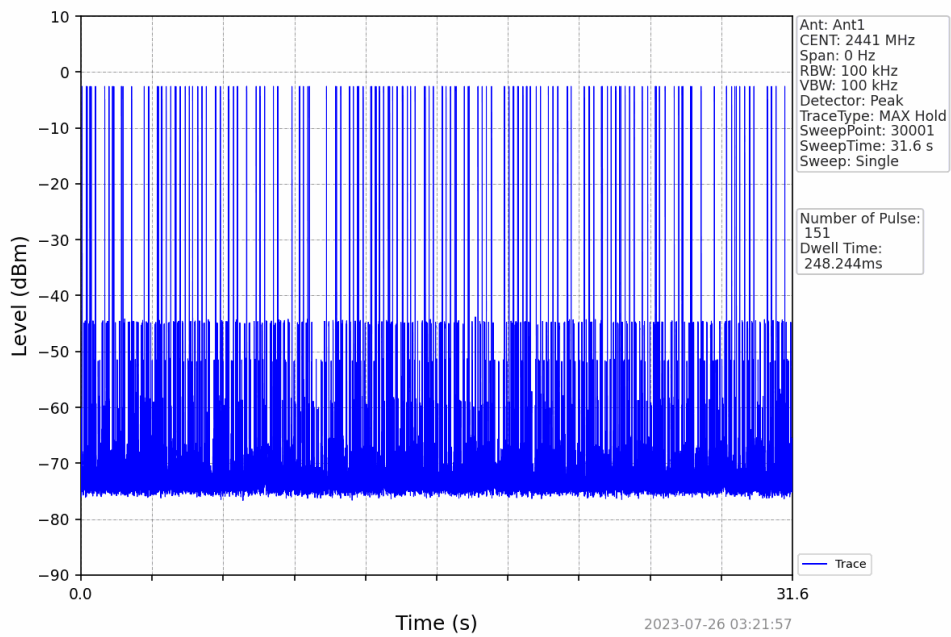
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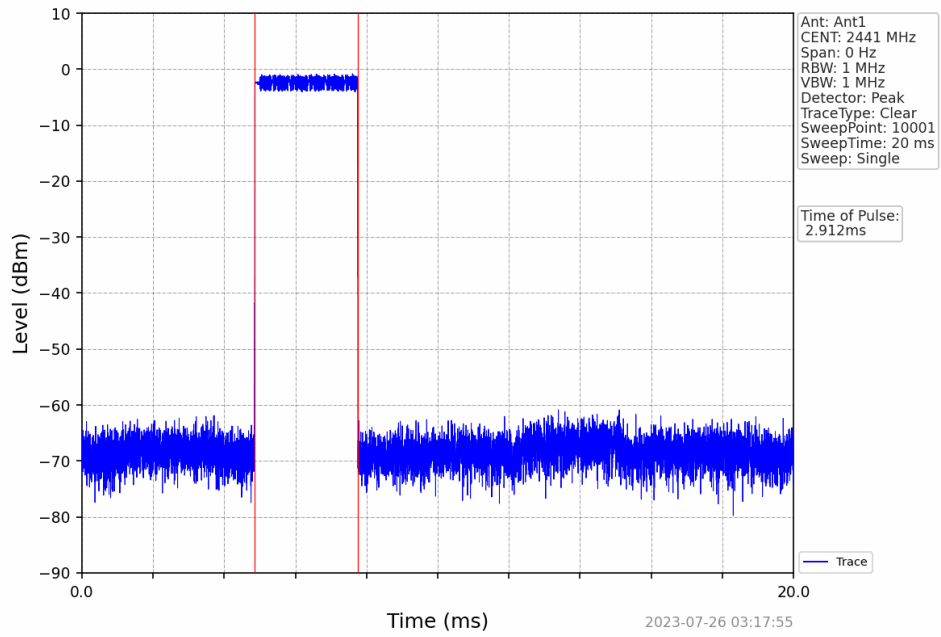
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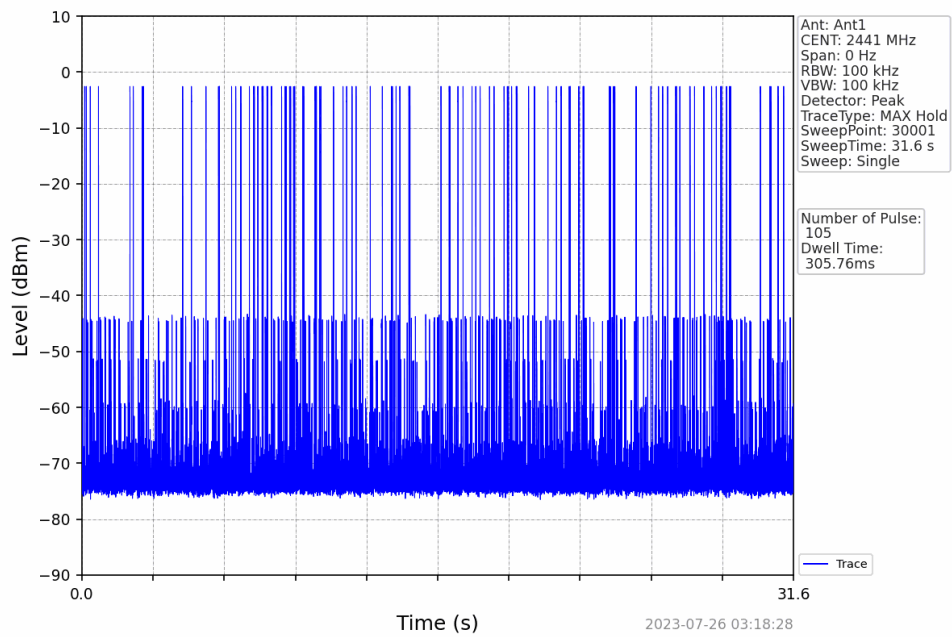
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



6 Conducted Spurious Emissions and Band Edges Test

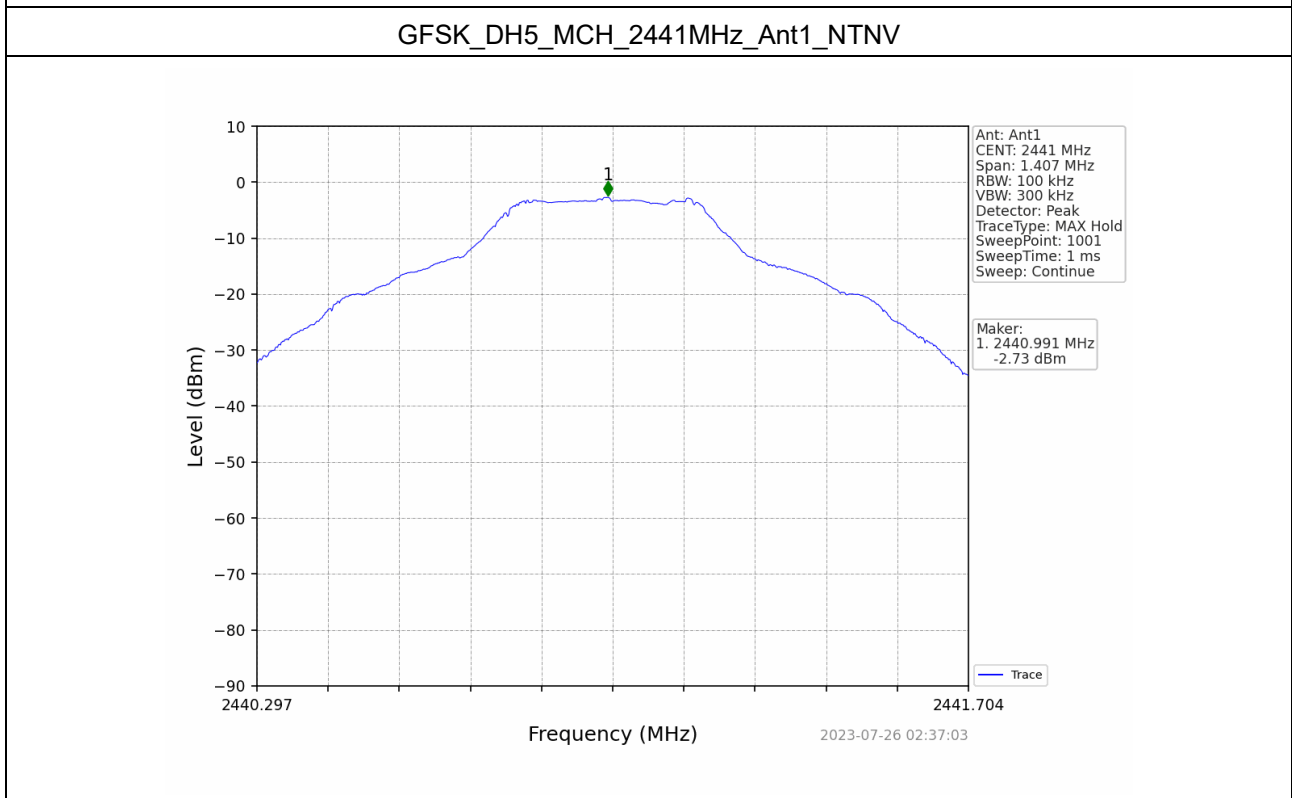
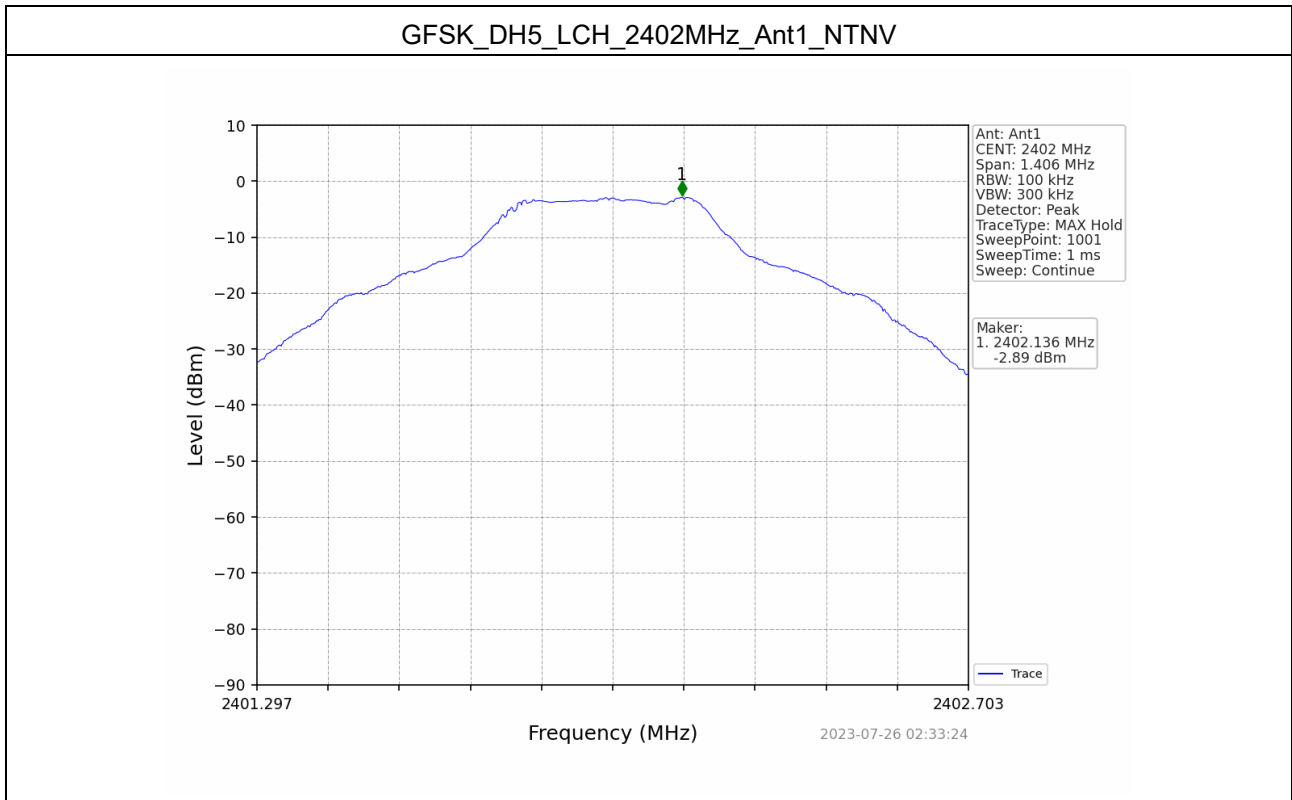
6.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-2.89	-20	Pass
	MCH	-2.73	-20	Pass
	HCH	-0.94	-20	Pass
$\pi/4$ -DQPSK	LCH	-2.48	-20	Pass
	MCH	-2.39	-20	Pass
	HCH	-0.56	-20	Pass

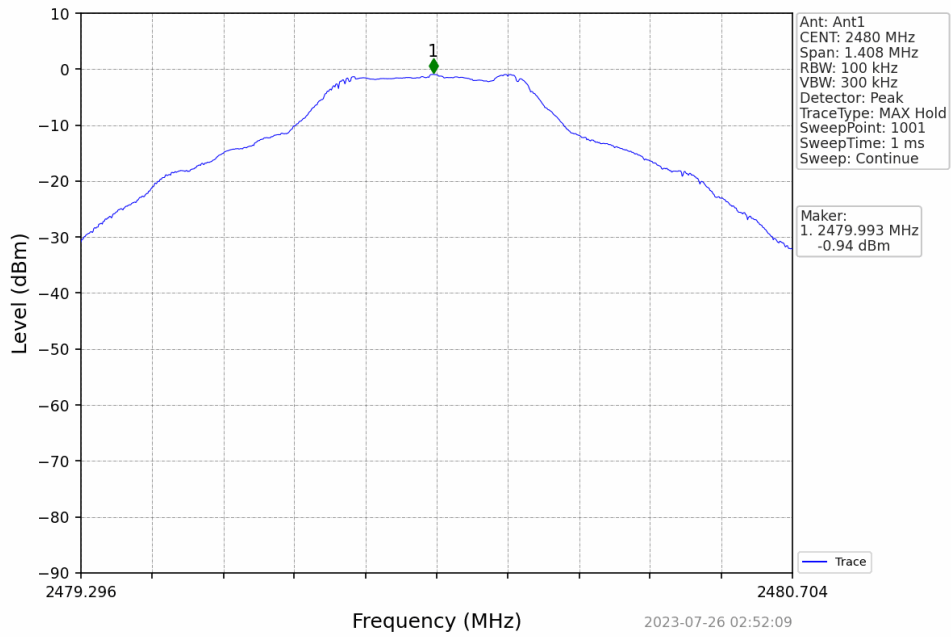
Mode	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	2402	DH5	1	-0.94	-20.94	Pass
	2441	DH5	1	-0.94	-20.94	Pass
	2480	DH5	1	-0.94	-20.94	Pass
	HOPP	DH5	1	-0.94	-20.94	Pass
$\pi/4$ -DQPSK	2402	2DH5	1	-0.56	-20.56	Pass
	2441	2DH5	1	-0.56	-20.56	Pass
	2480	2DH5	1	-0.56	-20.56	Pass
	HOPP	2DH5	1	-0.56	-20.56	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

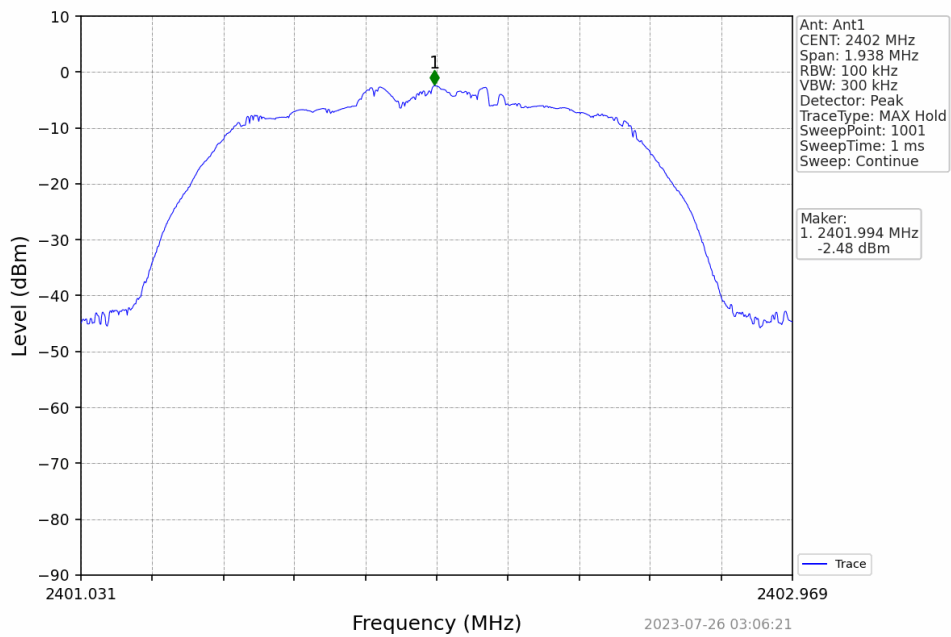
6.2 Test Graphs



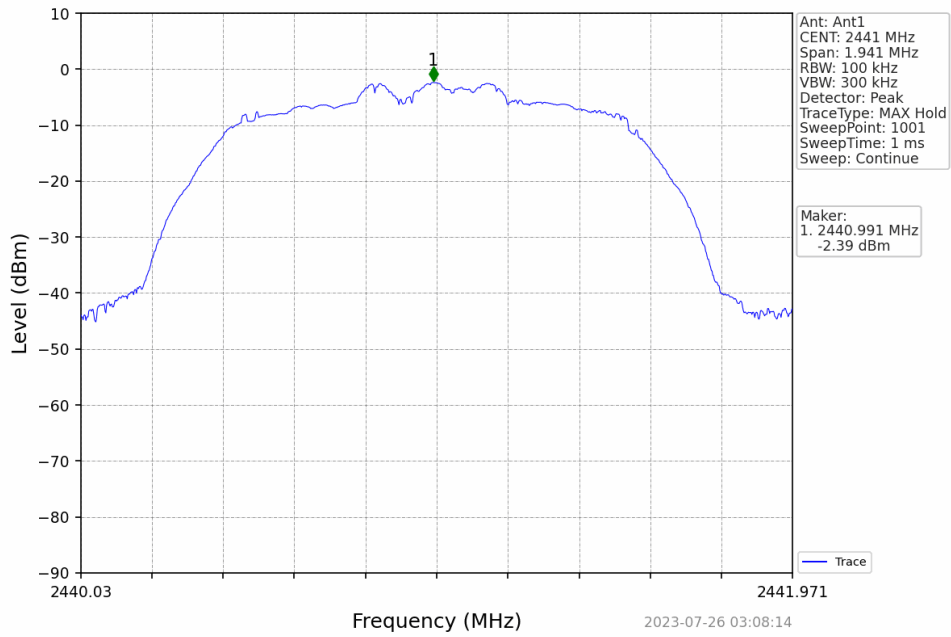
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



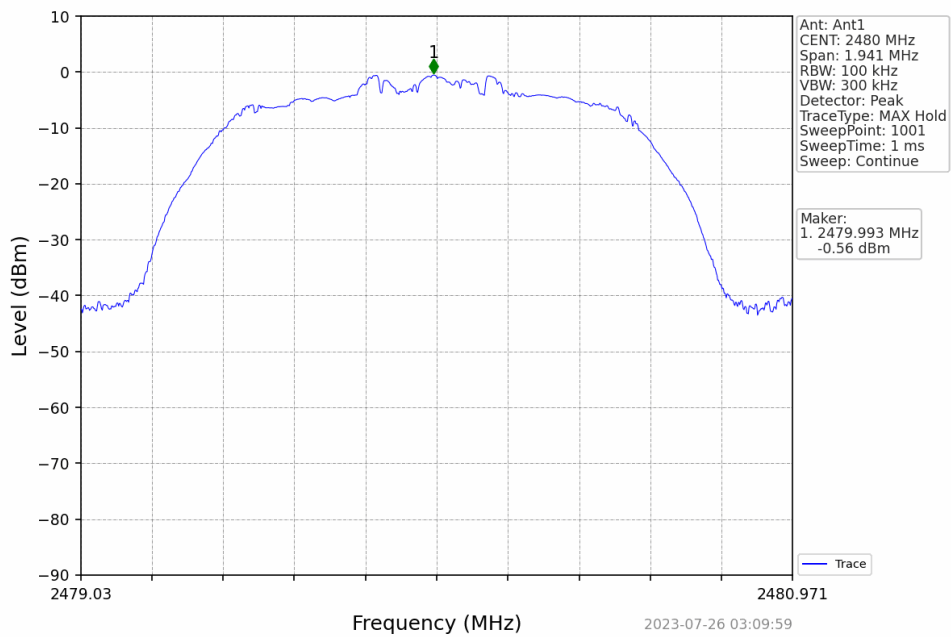
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

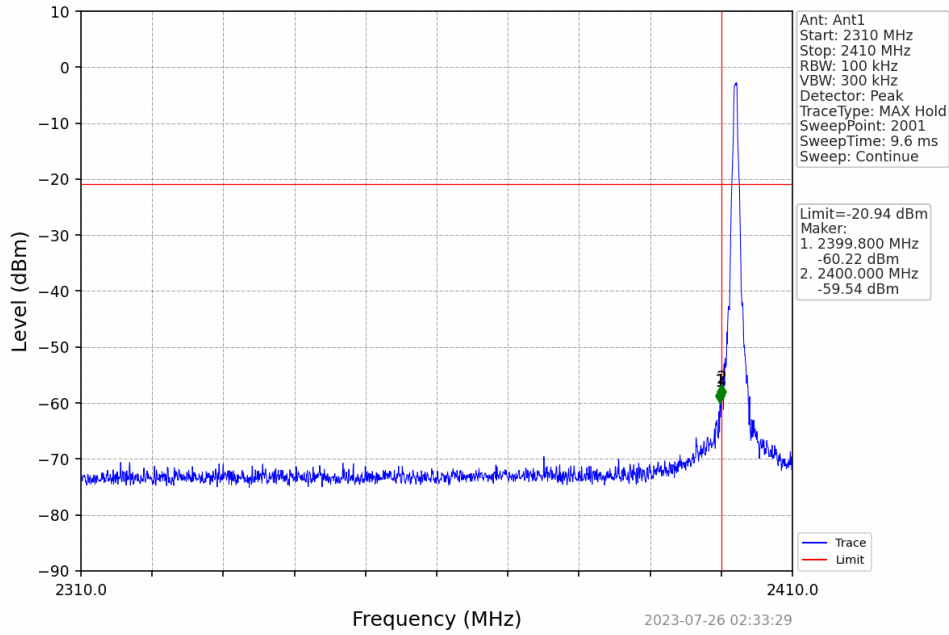


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

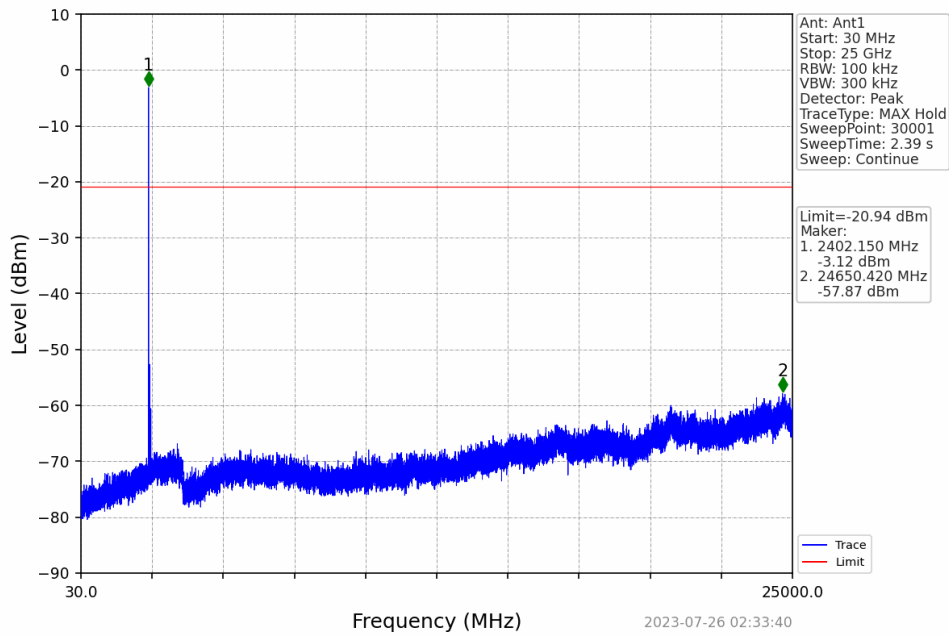


CSE

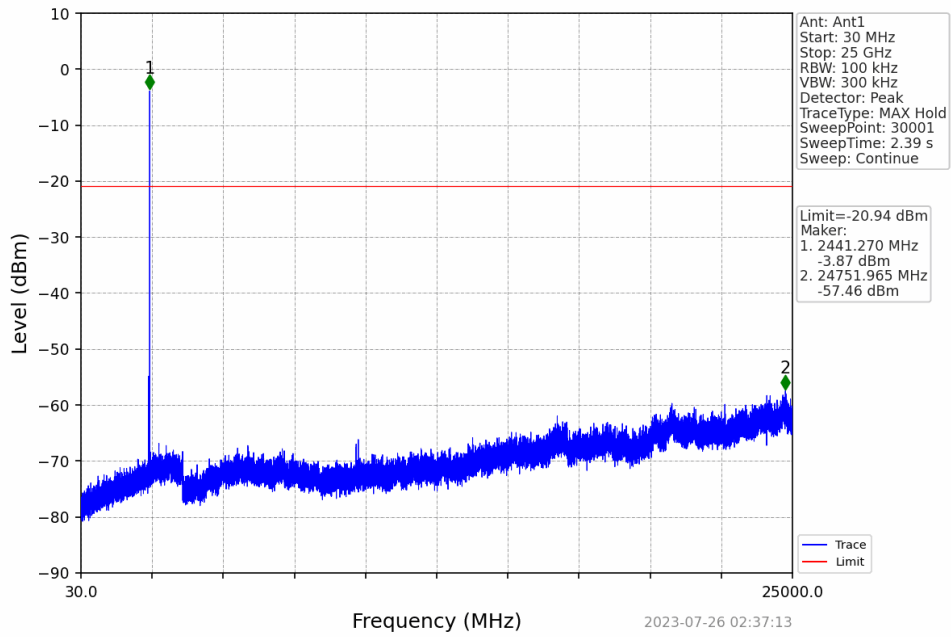
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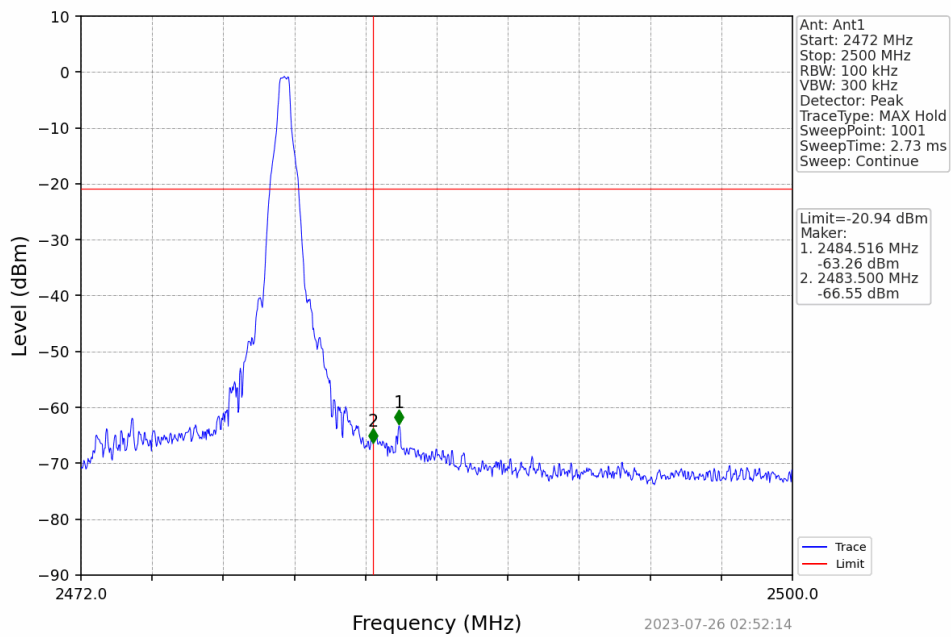
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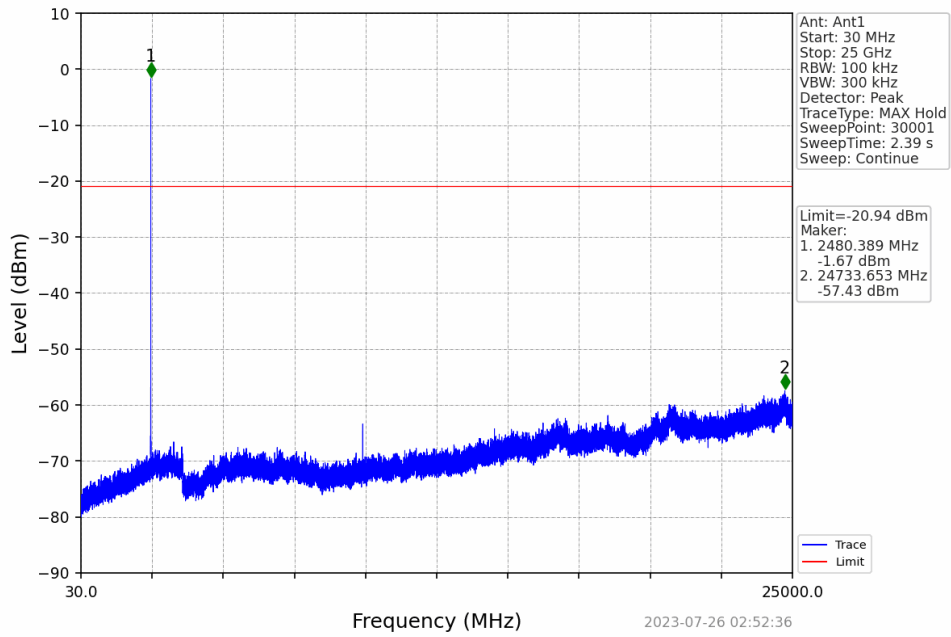
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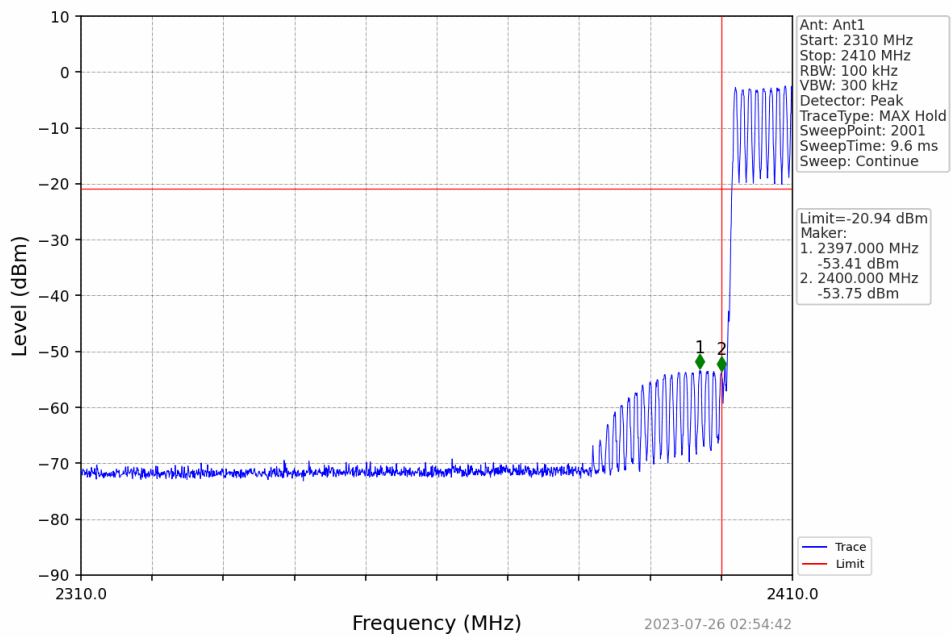
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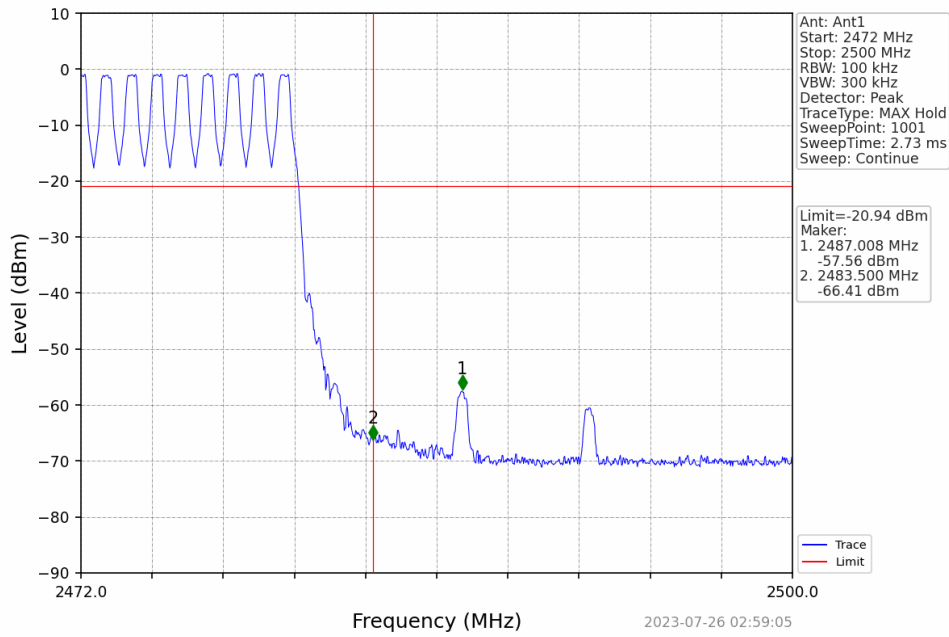
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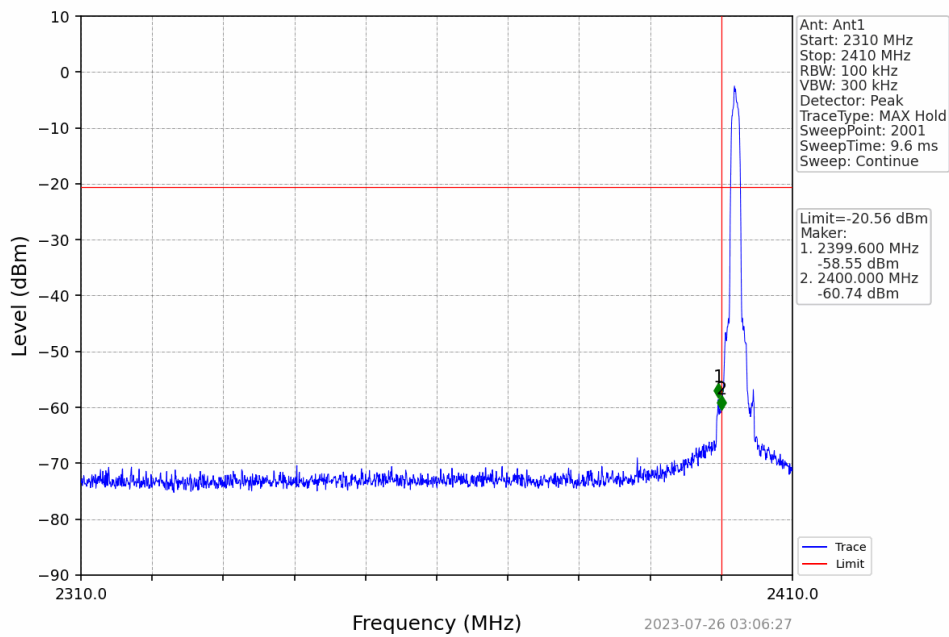
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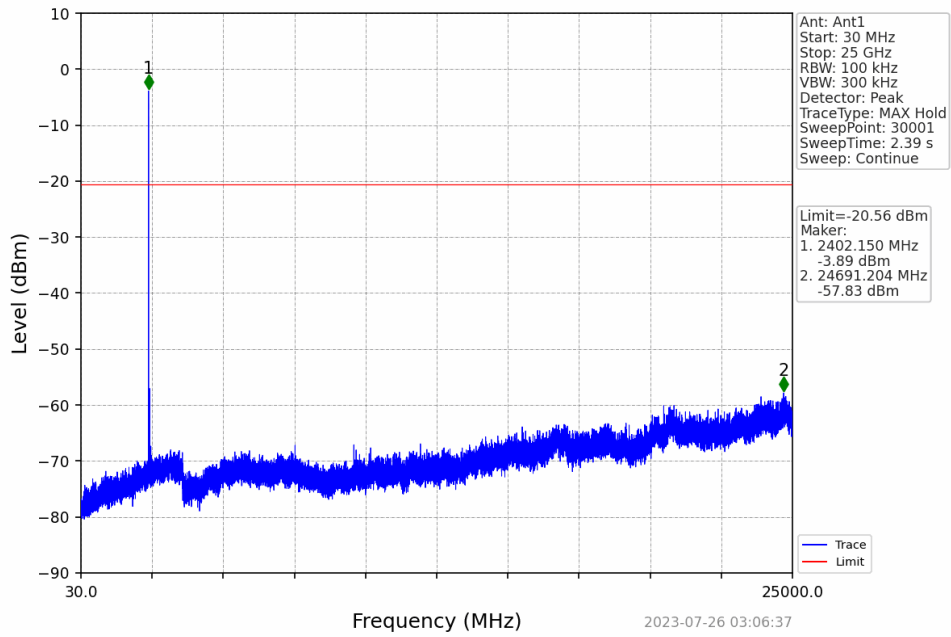
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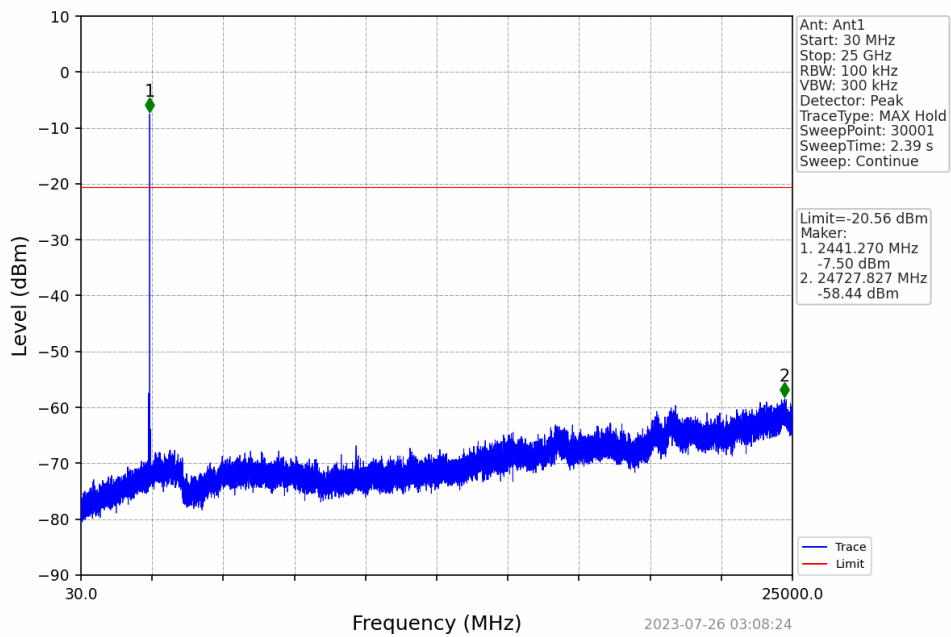
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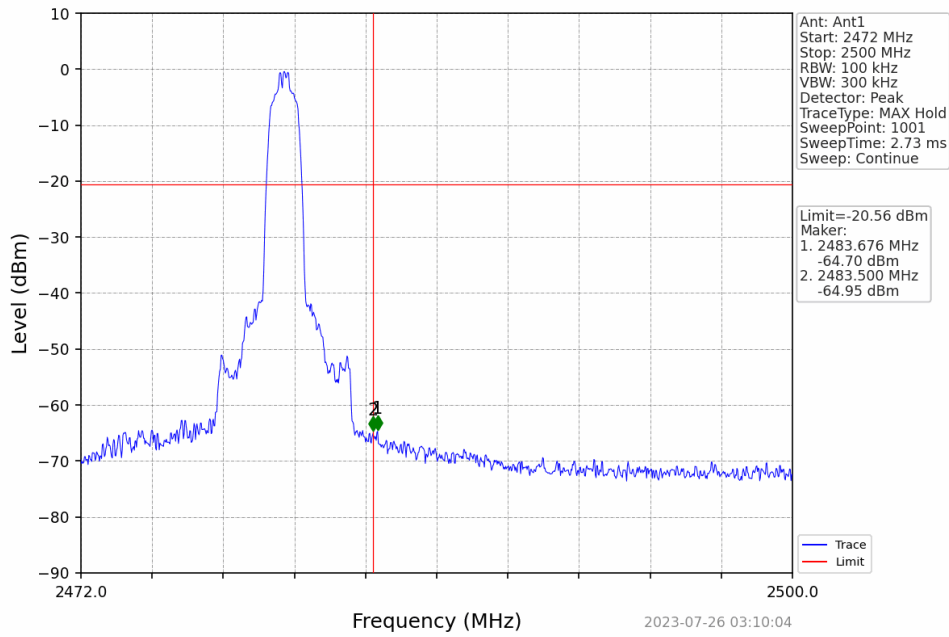
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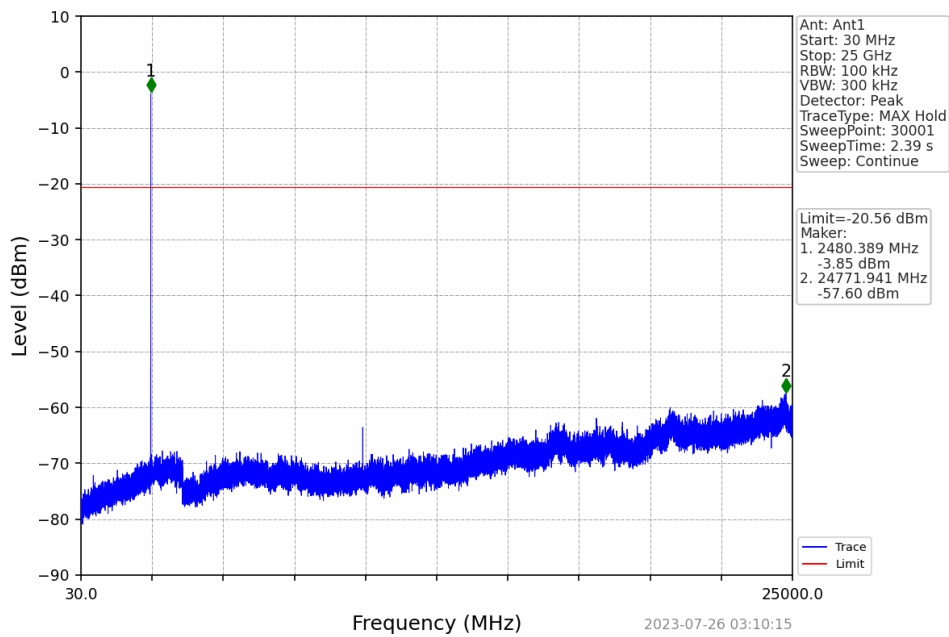
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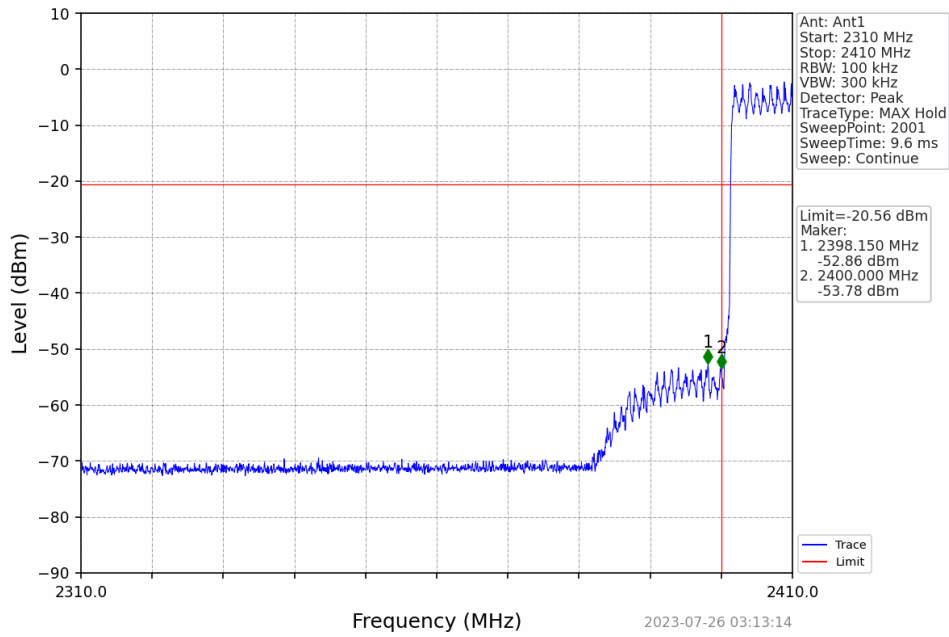
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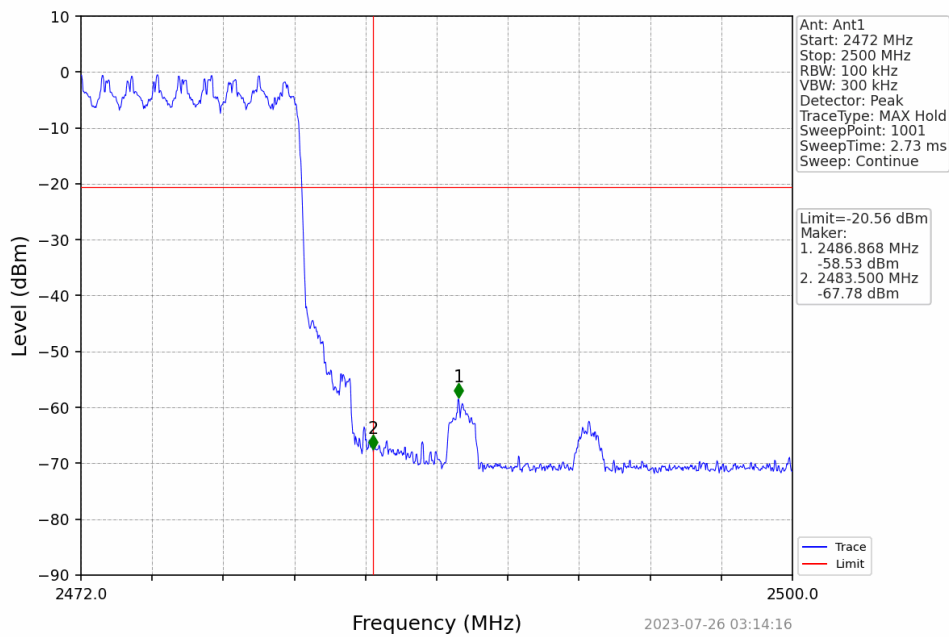
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



7 Band-edge for RF Conducted Emissions

7.1 Test Result

Test Mode: GFKS										
Pol.	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detect or Type	Result
Low Channel: 2402MHz										
H	2390.00	46.72	29.15	3.41	34.01	45.27	74.00	-28.73	PK	PASS
H	2400.00	64.06	29.16	3.43	34.01	62.64	74.00	-11.36	PK	PASS
V	2390.00	47.64	29.15	3.41	34.01	46.19	74.00	-27.81	PK	PASS
V	2400.00	66.51	29.16	3.43	34.01	65.09	74.00	-8.91	PK	PASS
H	2390.00	36.40	29.15	3.41	34.01	34.95	54.00	-19.05	AV	PASS
H	2400.00	47.87	29.16	3.43	34.01	46.45	54.00	-7.55	AV	PASS
V	2390.00	36.62	29.15	3.41	34.01	35.17	54.00	-18.83	AV	PASS
V	2400.00	49.88	29.16	3.43	34.01	48.46	54.00	-5.54	AV	PASS
High Channel: 2480MHz										
H	2483.50	49.28	29.28	3.53	34.03	48.06	74.00	-25.94	PK	PASS
H	2500.00	47.72	29.30	3.56	34.03	46.55	74.00	-27.45	PK	PASS
V	2483.50	50.76	29.28	3.53	34.03	49.54	74.00	-24.46	PK	PASS
V	2500.00	49.09	29.30	3.56	34.03	47.92	74.00	-26.08	PK	PASS
H	2483.50	39.27	29.28	3.53	34.03	38.05	54.00	-15.95	AV	PASS
H	2500.00	36.73	29.30	3.56	34.03	35.56	54.00	-18.44	AV	PASS
V	2483.50	40.81	29.28	3.53	34.03	39.59	54.00	-14.41	AV	PASS
V	2500.00	36.97	29.30	3.56	34.03	35.80	54.00	-18.20	AV	PASS



Test Mode: $\pi/4$ -DQPSK										
Pol.	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detect or Type	Result
Low Channel: 2402MHz										
H	2390.00	47.28	29.15	3.41	34.01	45.83	74.00	-28.17	PK	PASS
H	2400.00	64.70	29.16	3.43	34.01	63.28	74.00	-10.72	PK	PASS
V	2390.00	48.25	29.15	3.41	34.01	46.80	74.00	-27.20	PK	PASS
V	2400.00	67.21	29.16	3.43	34.01	65.79	74.00	-8.21	PK	PASS
H	2390.00	36.84	29.15	3.41	34.01	35.39	54.00	-18.61	AV	PASS
H	2400.00	48.34	29.16	3.43	34.01	46.92	54.00	-7.08	AV	PASS
V	2390.00	37.10	29.15	3.41	34.01	35.65	54.00	-18.35	AV	PASS
V	2400.00	50.40	29.16	3.43	34.01	48.98	54.00	-5.02	AV	PASS
High Channel: 2480MHz										
H	2483.50	49.91	29.28	3.53	34.03	48.69	74.00	-25.31	PK	PASS
H	2500.00	48.24	29.30	3.56	34.03	47.07	74.00	-26.93	PK	PASS
V	2483.50	51.49	29.28	3.53	34.03	50.27	74.00	-23.73	PK	PASS
V	2500.00	49.66	29.30	3.56	34.03	48.49	74.00	-25.51	PK	PASS
H	2483.50	39.72	29.28	3.53	34.03	38.50	54.00	-15.50	AV	PASS
H	2500.00	37.09	29.30	3.56	34.03	35.92	54.00	-18.08	AV	PASS
V	2483.50	41.30	29.28	3.53	34.03	40.08	54.00	-13.92	AV	PASS
V	2500.00	37.38	29.30	3.56	34.03	36.21	54.00	-17.79	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

-----End-----