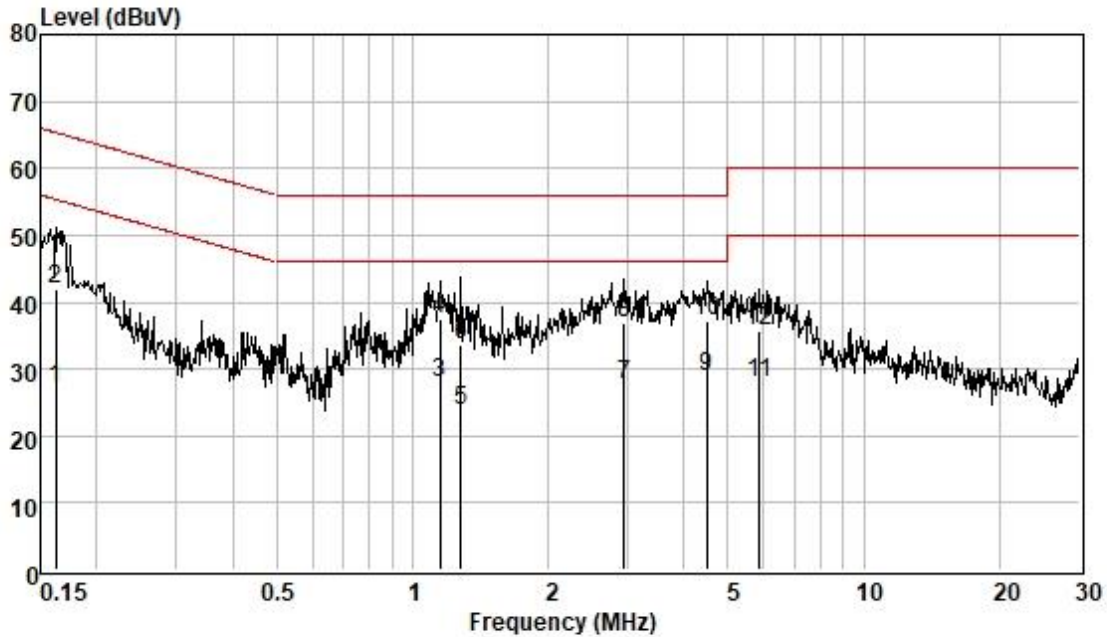
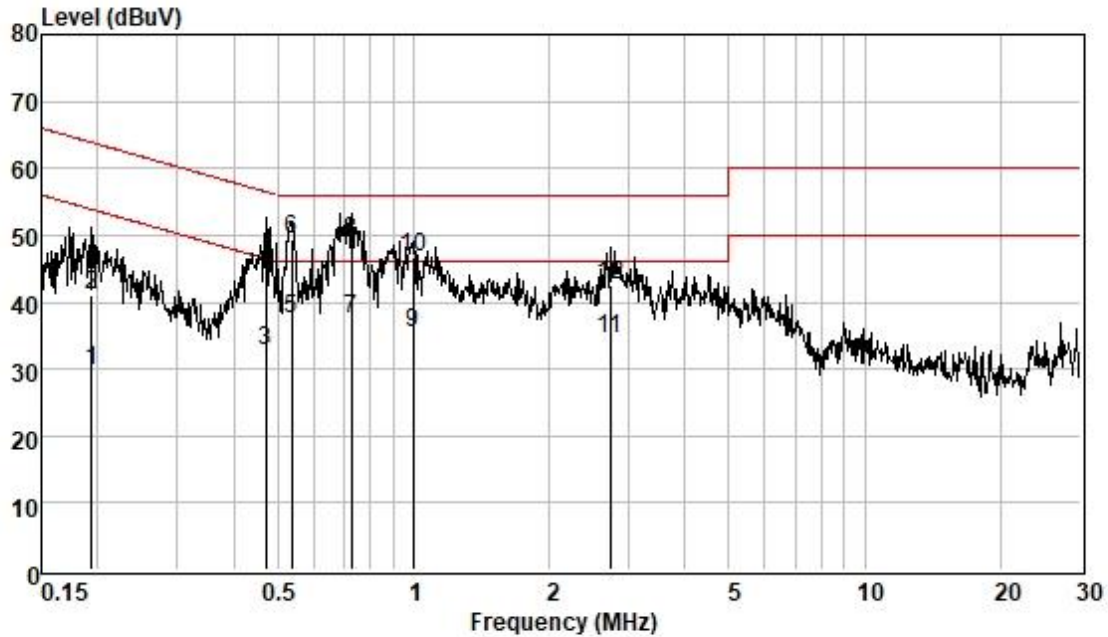


Test Mode: 48; Line: Neutral Line

Pol : NEUTRAL
Mode :
Model :

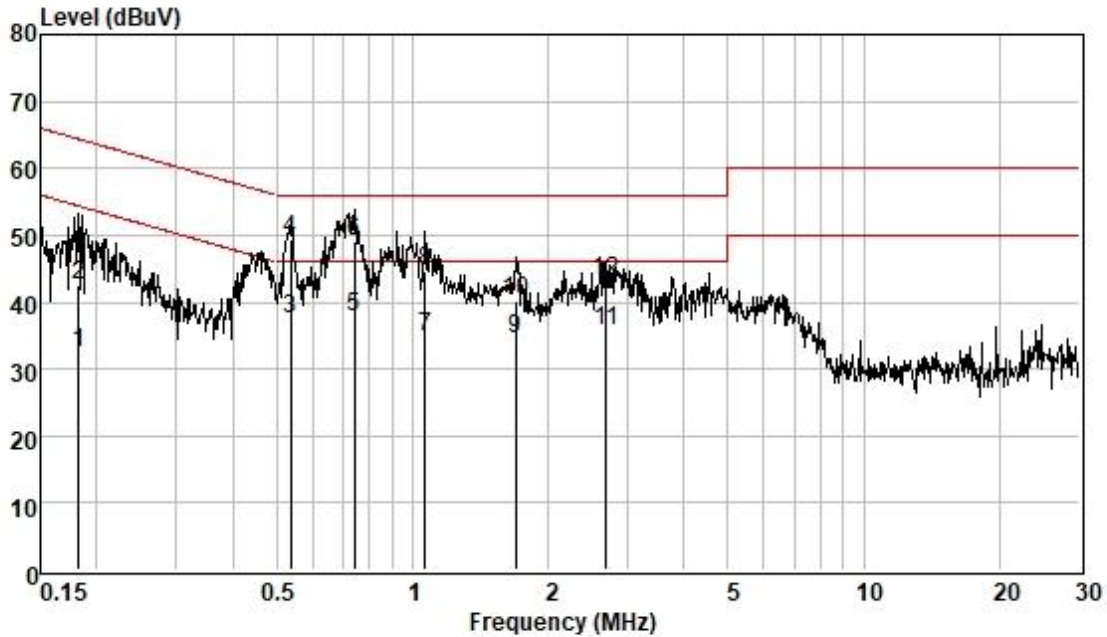
	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	17.46	0.06	9.54	27.06	55.34	-28.28	Average
2	0.162	32.43	0.06	9.54	42.03	65.34	-23.31	QP
3	1.153	18.19	0.08	9.59	27.86	46.00	-18.14	Average
4	1.153	27.72	0.08	9.59	37.39	56.00	-18.61	QP
5	1.282	14.26	0.09	9.59	23.94	46.00	-22.06	Average
6	1.282	24.02	0.09	9.59	33.70	56.00	-22.30	QP
7	2.946	18.03	0.15	9.61	27.79	46.00	-18.21	Average
8	2.946	27.04	0.15	9.61	36.80	56.00	-19.20	QP
9	4.478	18.93	0.17	9.65	28.75	46.00	-17.25	Average
10	4.478	27.21	0.17	9.65	37.03	56.00	-18.97	QP
11	5.867	18.06	0.19	9.70	27.95	50.00	-22.05	Average
12	5.867	25.74	0.19	9.70	35.63	60.00	-24.37	QP

Test Mode: 50; Line: Live line

Pol : LINE
Mode :
Model :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.193	20.09	0.06	9.56	29.71	53.89	-24.18	Average
2	0.193	31.34	0.06	9.56	40.96	63.89	-22.93	QP
3	0.471	23.00	0.07	9.59	32.66	46.49	-13.83	Average
4	0.471	34.84	0.07	9.59	44.50	56.49	-11.99	QP
5	0.538	27.67	0.07	9.59	37.33	46.00	-8.67	Average
6	0.538	39.81	0.07	9.59	49.47	56.00	-6.53	QP
7	0.727	27.95	0.07	9.59	37.61	46.00	-8.39	Average
8	0.727	39.42	0.07	9.59	49.08	56.00	-6.92	QP
9	1.000	25.77	0.07	9.60	35.44	46.00	-10.56	Average
10	1.000	37.12	0.07	9.60	46.79	56.00	-9.21	QP
11	2.721	24.76	0.14	9.60	34.50	46.00	-11.50	Average
12	2.721	32.68	0.14	9.60	42.42	56.00	-13.58	QP

Test Mode: 50; Line: Neutral Line

Pol : NEUTRAL
Mode :
Model :

	Freque	Read	Cable	LISN	Measured	Limit	Over	
	nc	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	22.81	0.06	9.54	32.41	54.37	-21.96	Average
2	0.182	32.97	0.06	9.54	42.57	64.37	-21.80	QP
3	0.538	27.97	0.07	9.58	37.62	46.00	-8.38	Average
4	0.538	39.65	0.07	9.58	49.30	56.00	-6.70	QP
5	0.743	28.24	0.07	9.59	37.90	46.00	-8.10	Average
6	0.743	39.38	0.07	9.59	49.04	56.00	-6.96	QP
7	1.065	25.23	0.07	9.59	34.89	46.00	-11.11	Average
8	1.065	34.91	0.07	9.59	44.57	56.00	-11.43	QP
9	1.689	24.68	0.11	9.59	34.38	46.00	-11.62	Average
10	1.689	30.47	0.11	9.59	40.17	56.00	-15.83	QP
11	2.692	25.84	0.14	9.60	35.58	46.00	-10.42	Average
12	2.692	33.28	0.14	9.60	43.02	56.00	-12.98	QP

9 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR211202151003

10 EUT Constructional Details (EUT Photos)

Refer to Appendix _ External and Internal Photos for GZCR2112021510AT

11 Appendix

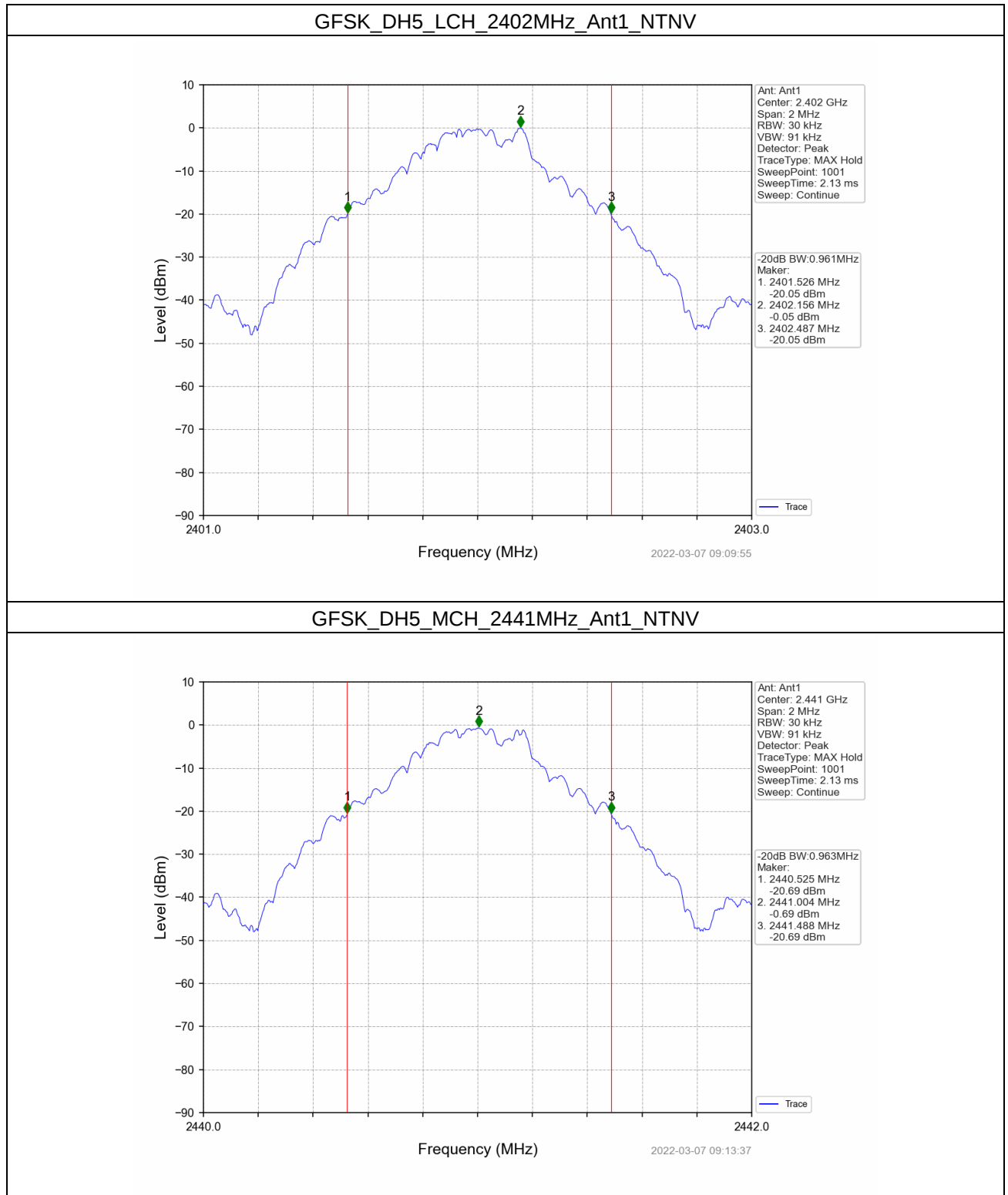
1. Bandwidth

1.1 20dB BW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.961	Pass
		2441	DH5	1	0.963	Pass
		2480	DH5	1	0.962	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.332	Pass
		2441	2DH5	1	1.332	Pass
		2480	2DH5	1	1.332	Pass
8DPSK	SISO	2402	3DH5	1	1.311	Pass
		2441	3DH5	1	1.312	Pass
		2480	3DH5	1	1.310	Pass

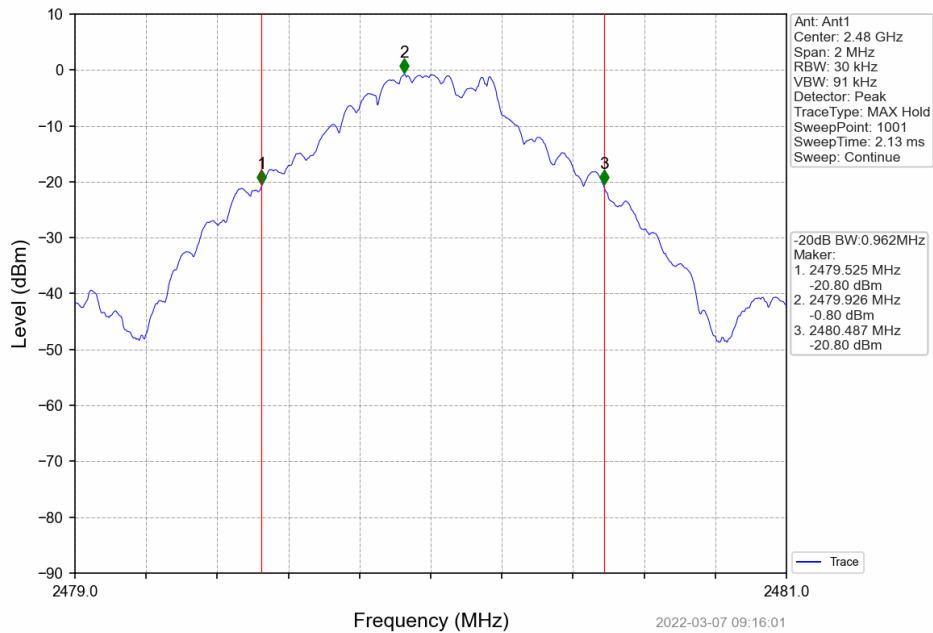
1.1.2 Test Graph



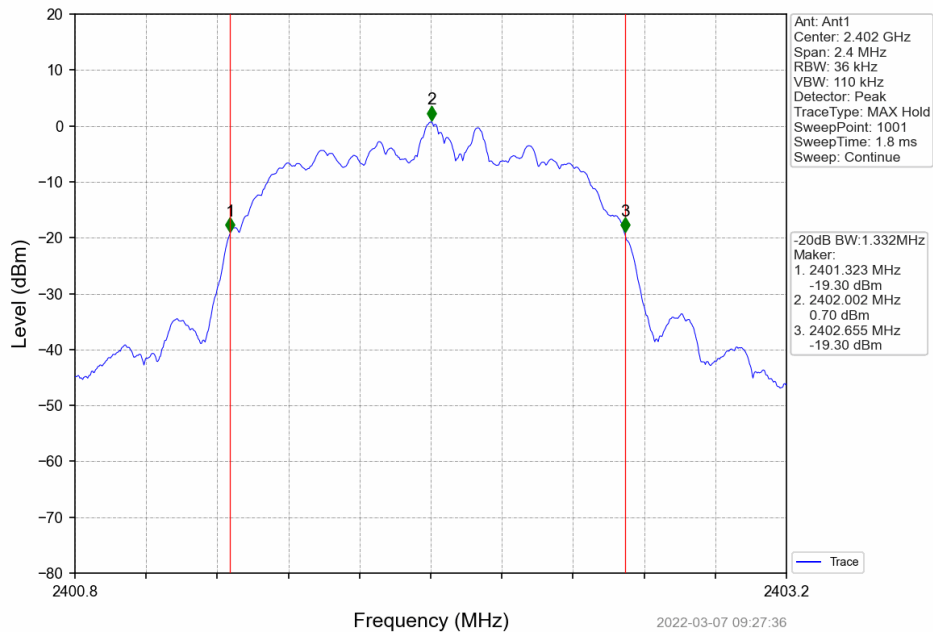
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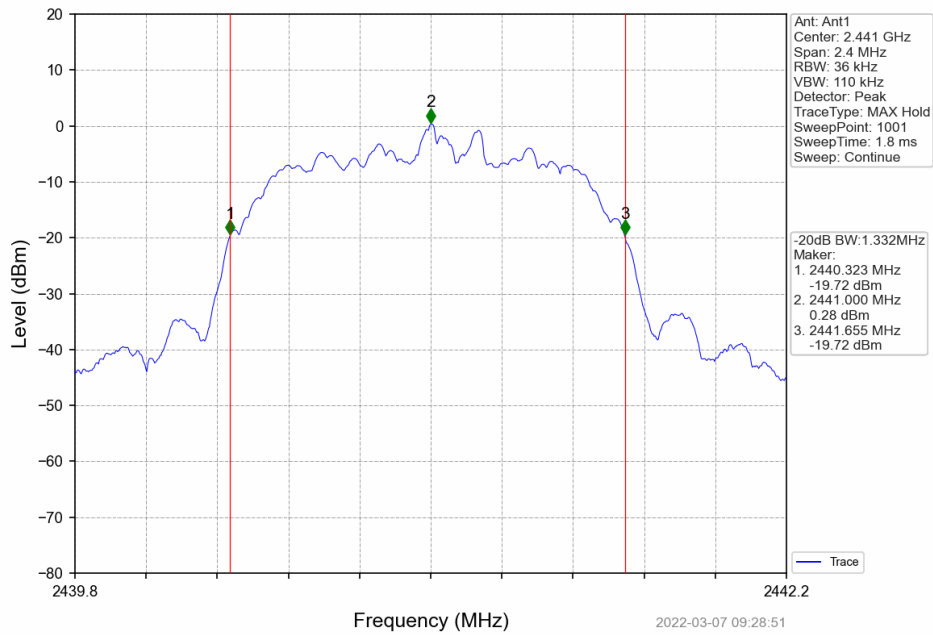
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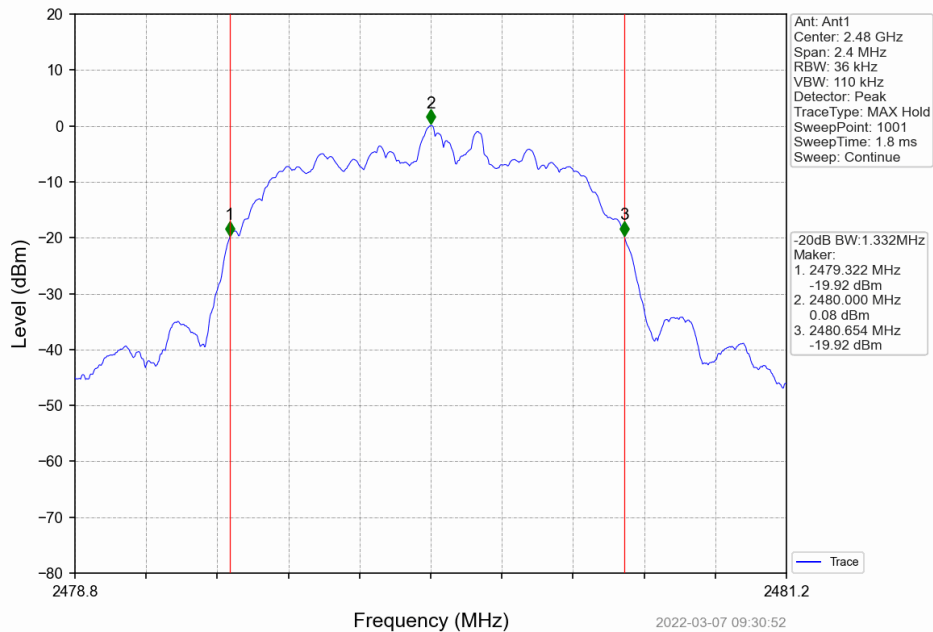
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



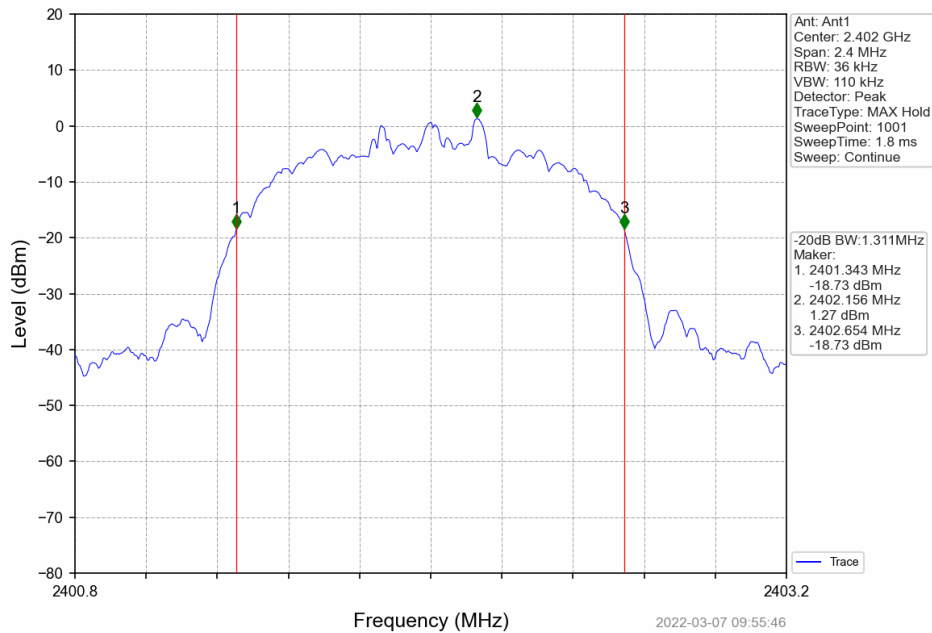
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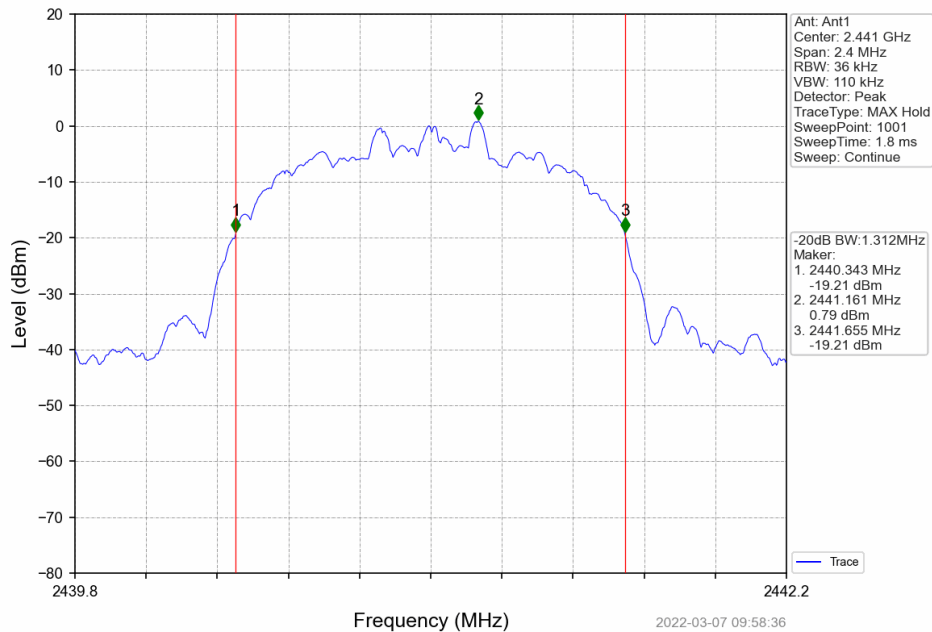
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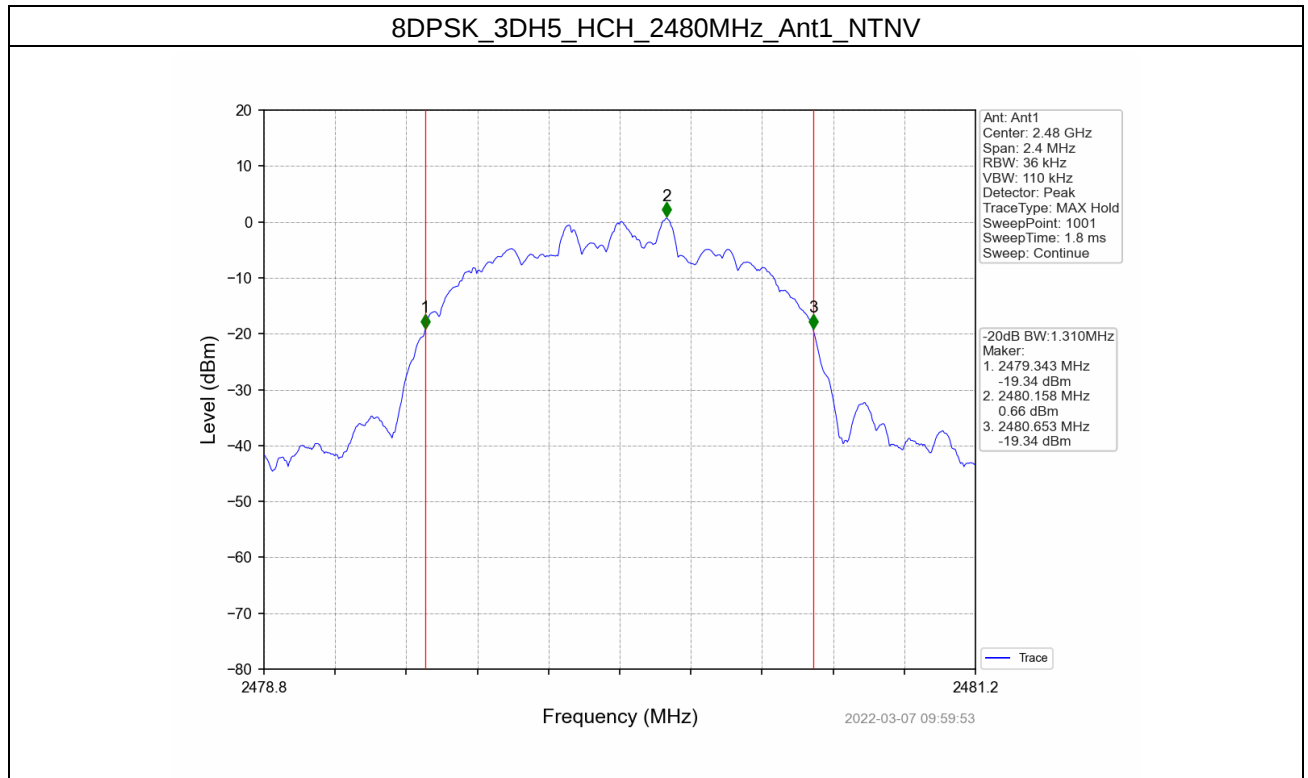


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





2. Maximum Conducted Output Power

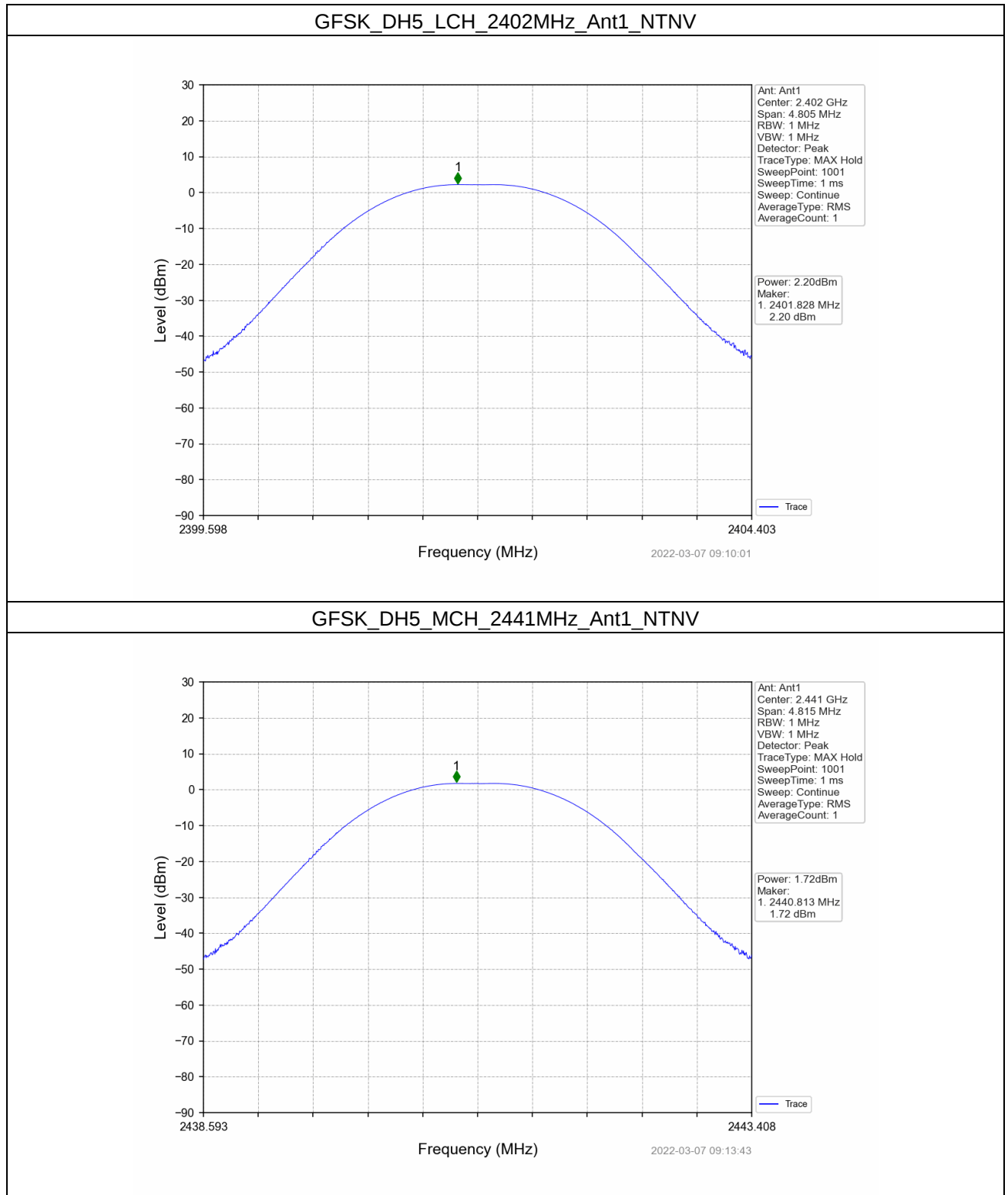
2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				Ant1	Limit	
GFSK	SISO	2402	DH5	2.20	<=30	Pass
		2441	DH5	1.72	<=30	Pass
		2480	DH5	1.59	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	4.43	<=20.97	Pass
		2441	2DH5	4.06	<=20.97	Pass
		2480	2DH5	3.91	<=20.97	Pass
8DPSK	SISO	2402	3DH5	5.01	<=20.97	Pass
		2441	3DH5	4.69	<=20.97	Pass
		2480	3DH5	4.56	<=20.97	Pass

Note1: Antenna Gain: Ant1: 3.39dBi;

2.1.2 Test Graph

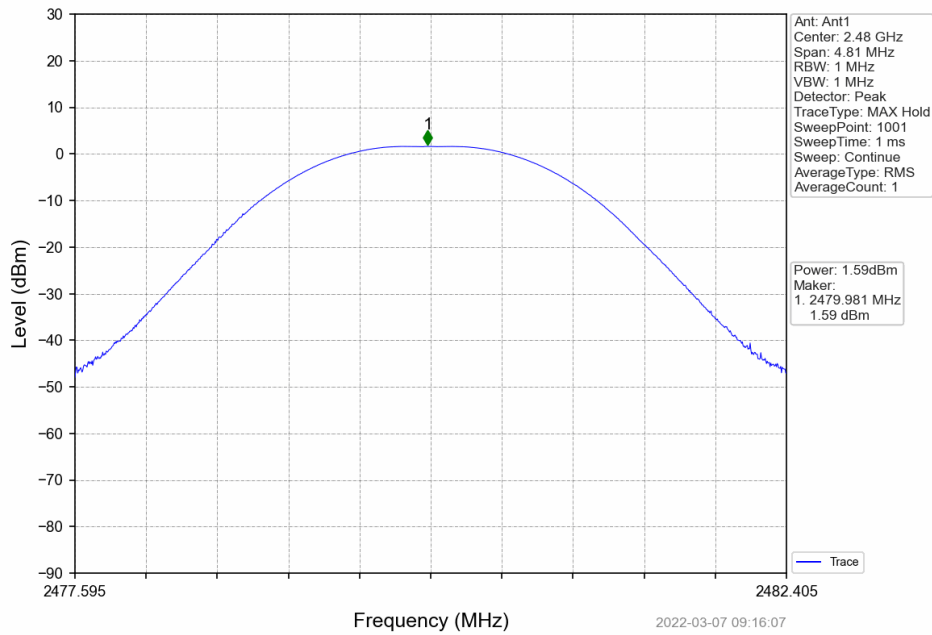


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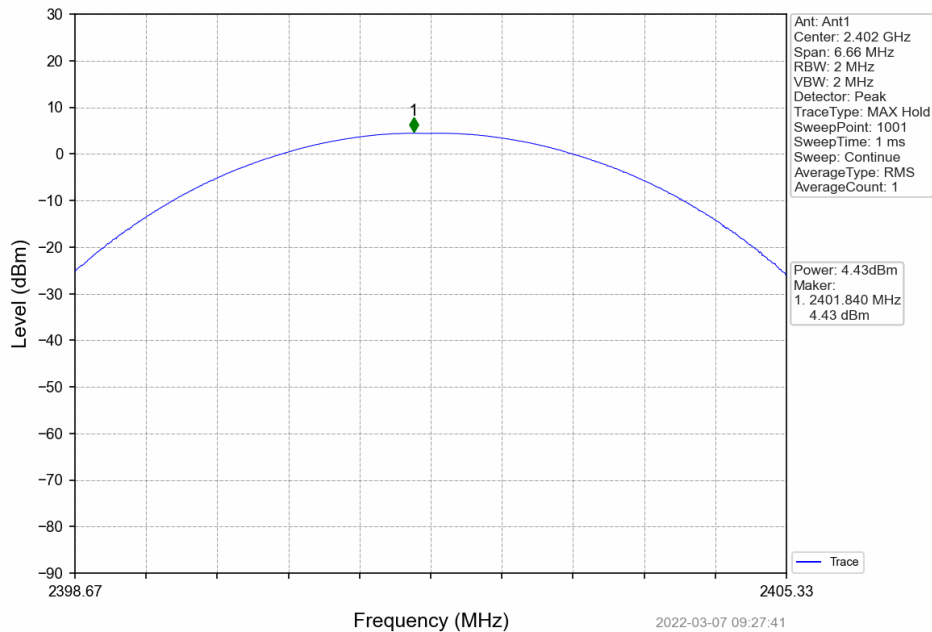
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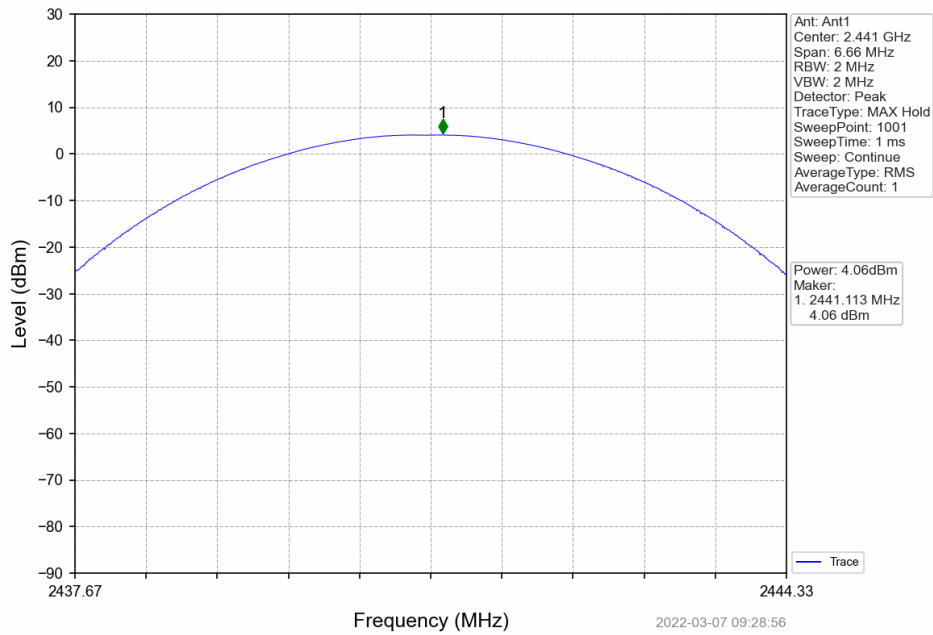
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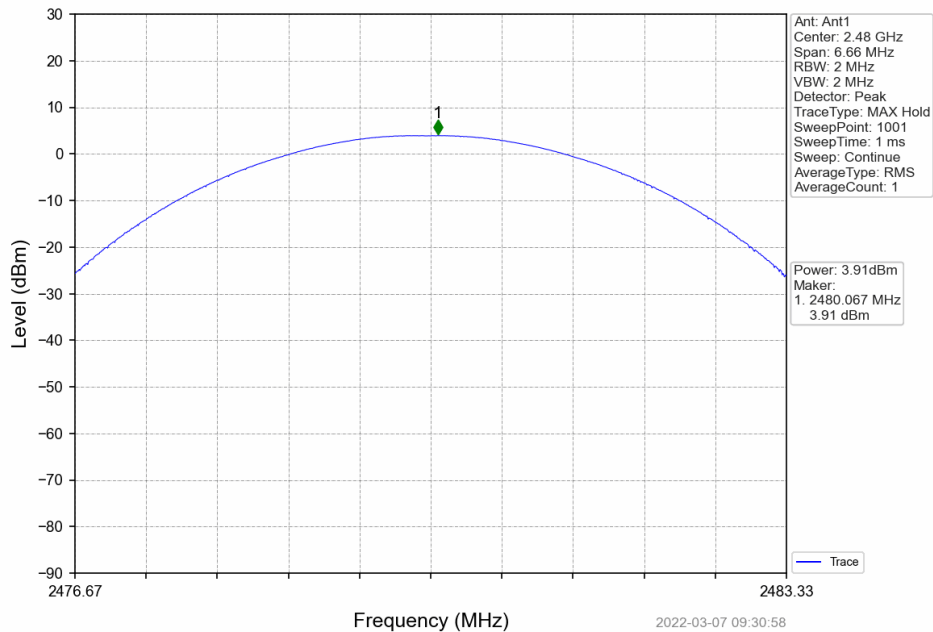
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



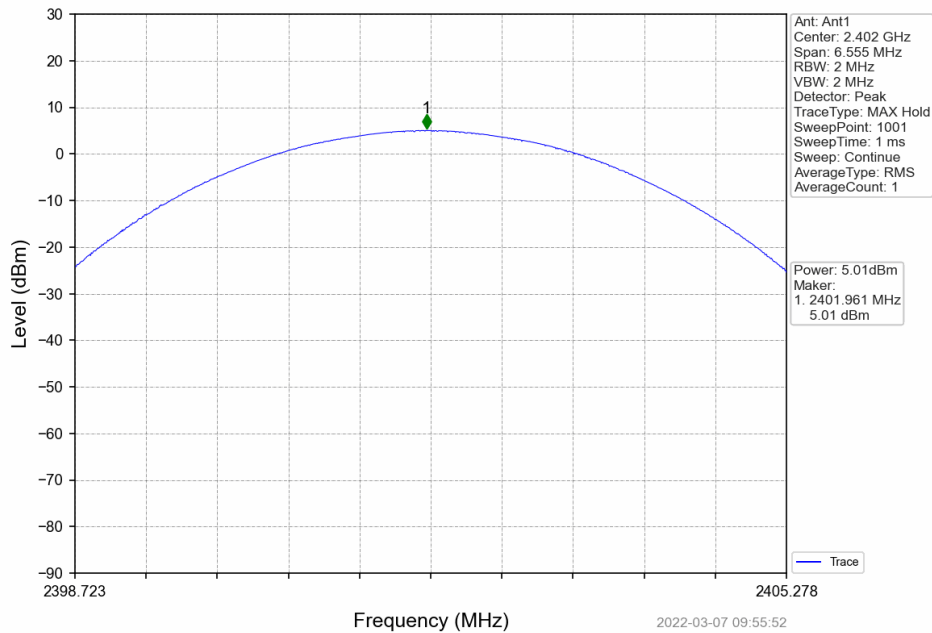
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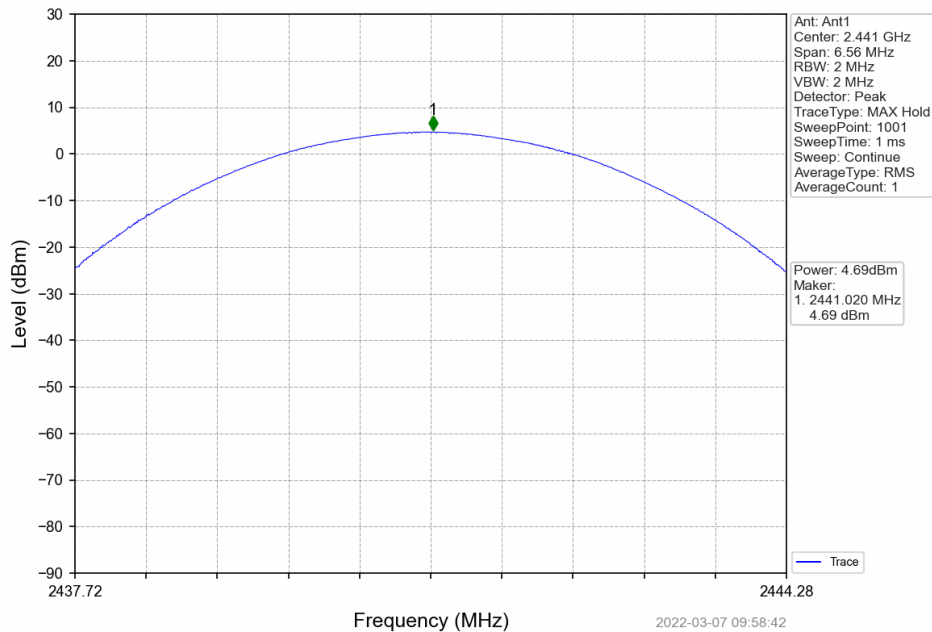
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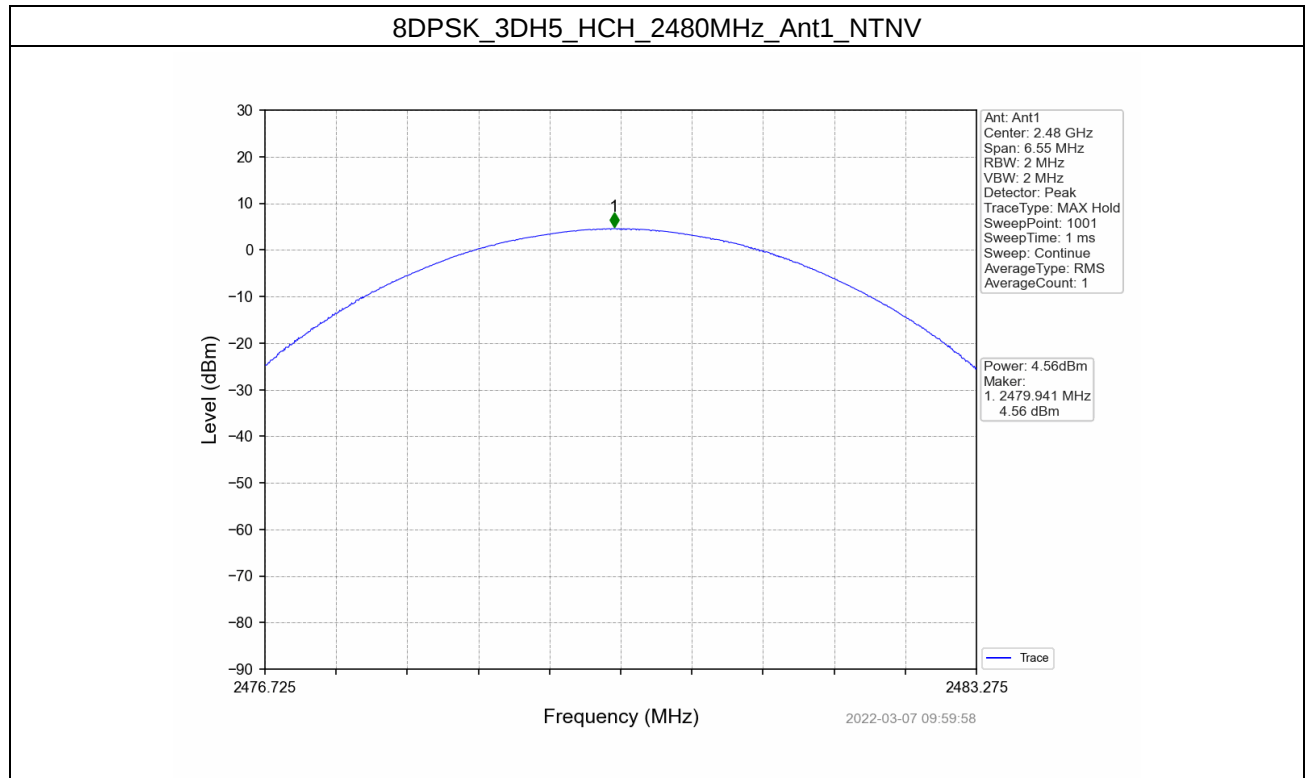
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





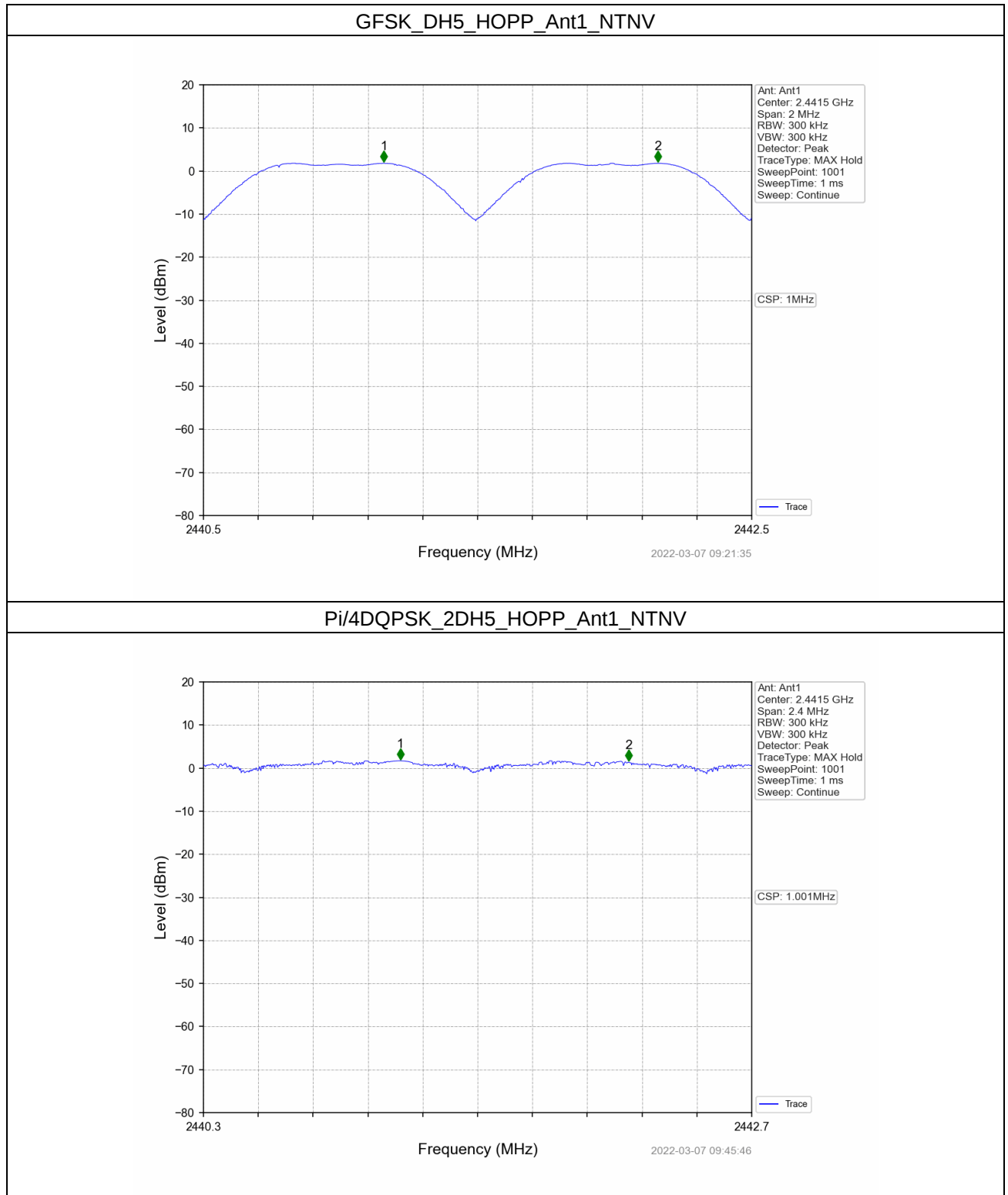
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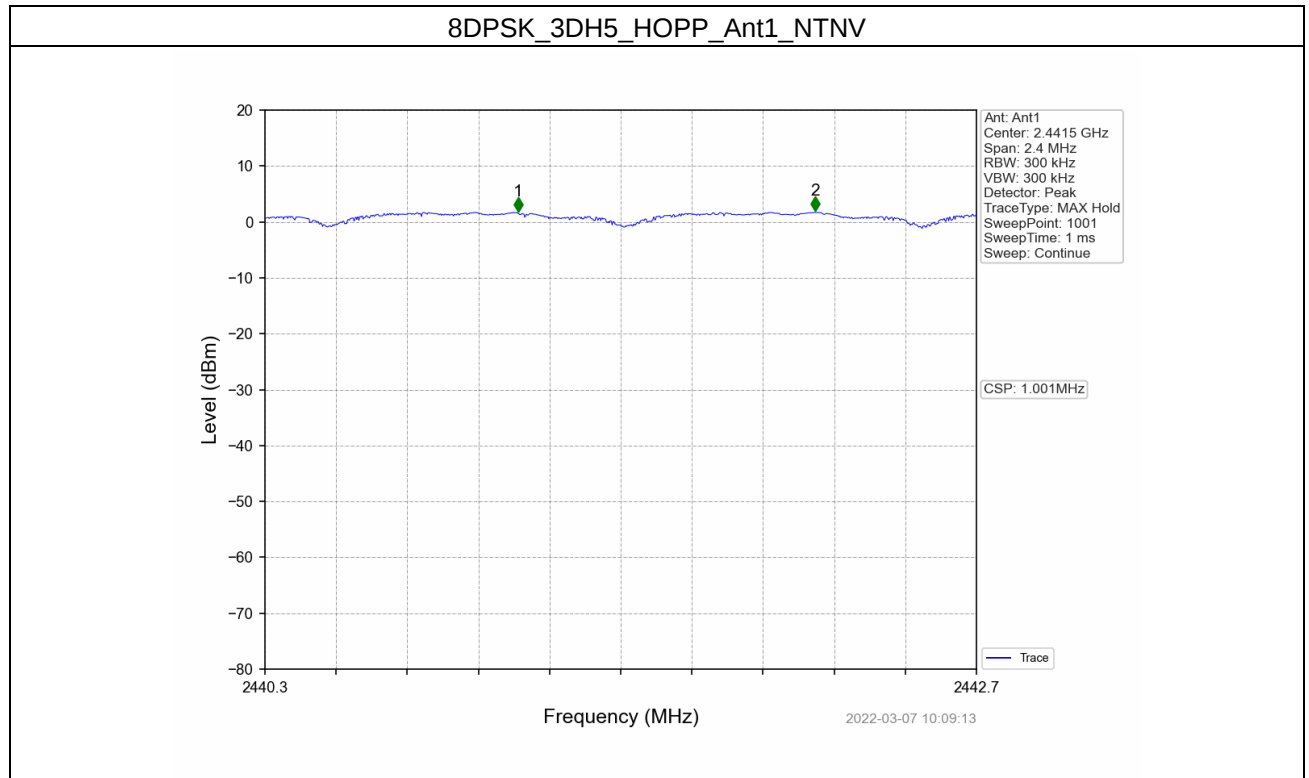
3.1 Ant1

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	1.000	0.963	≥ 0.963	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.332	≥ 0.888	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.312	≥ 0.875	Pass

3.1.2 Test Graph





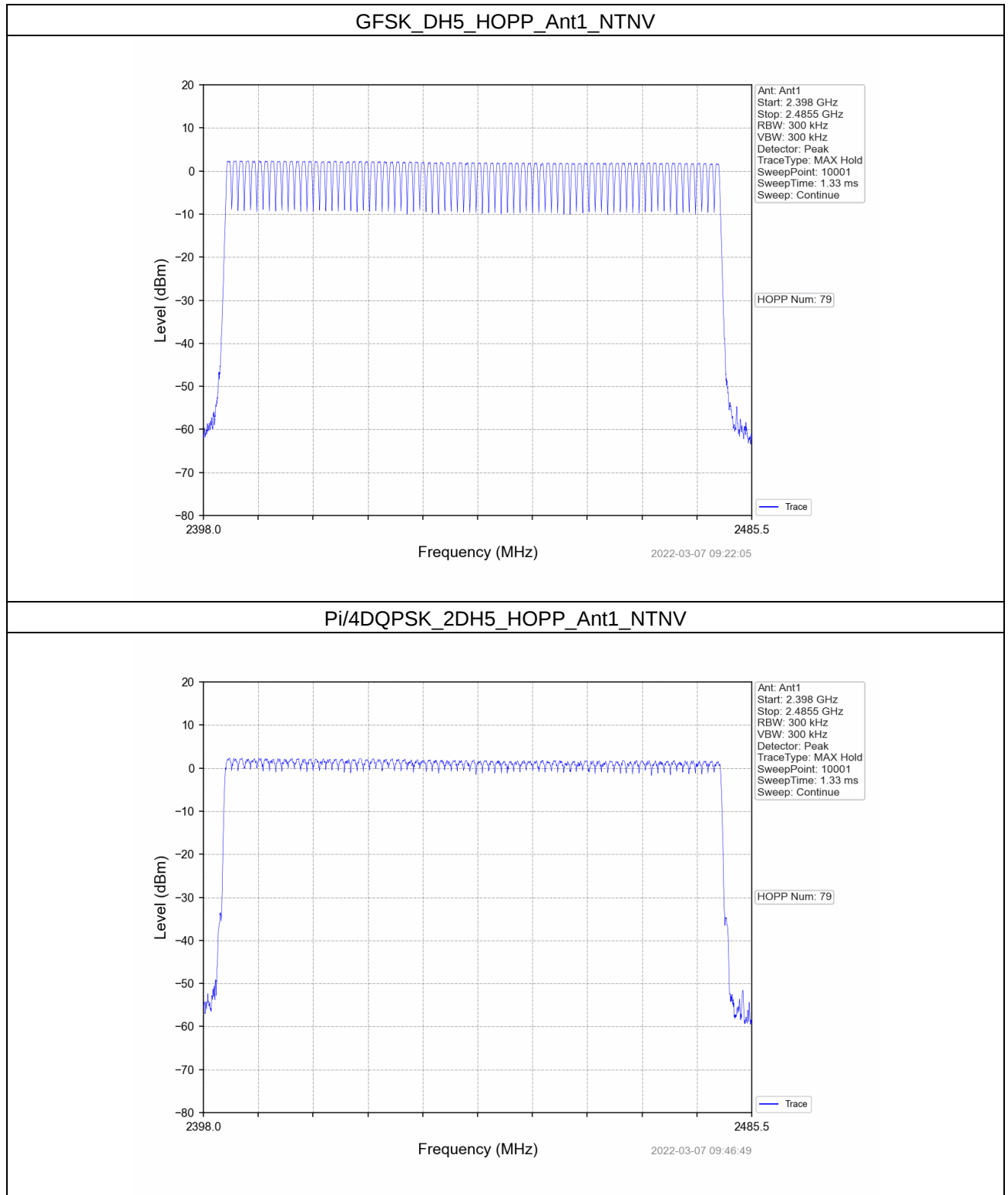
4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

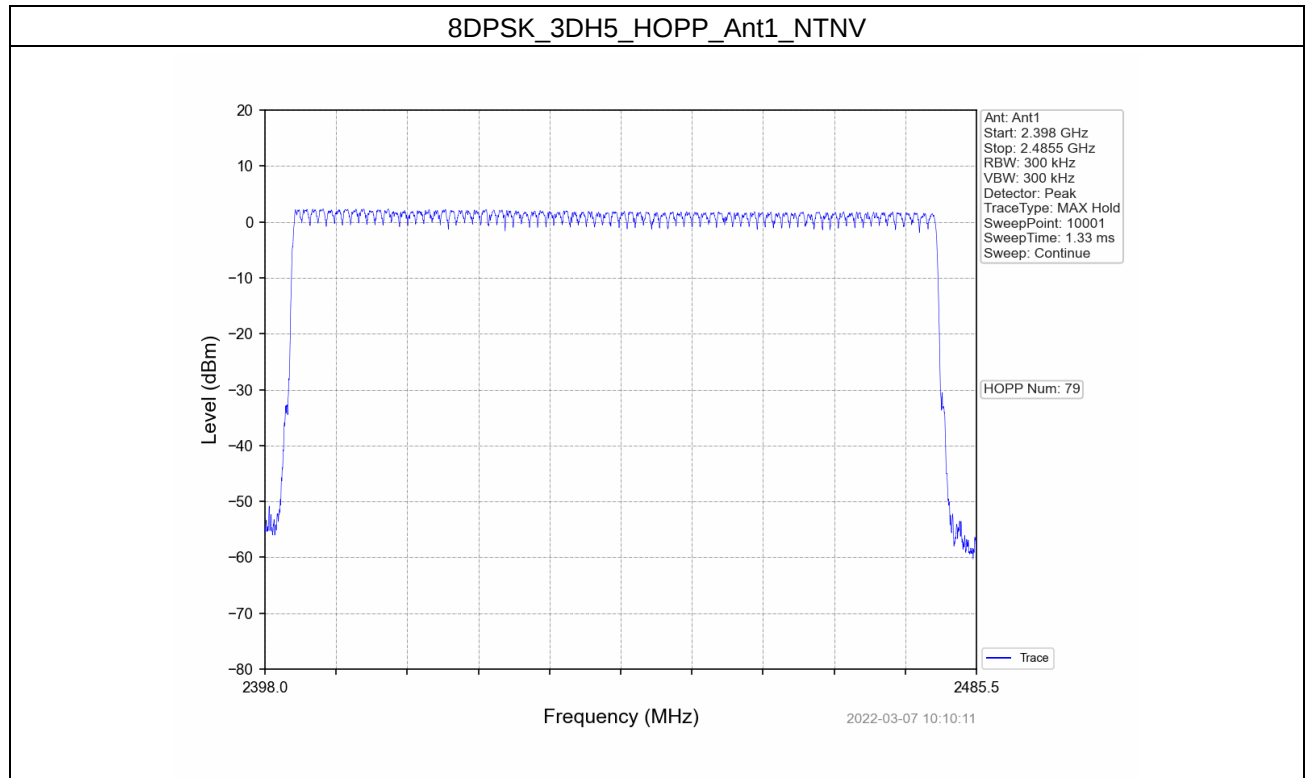
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				Ant1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.1.2 Test Graph



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

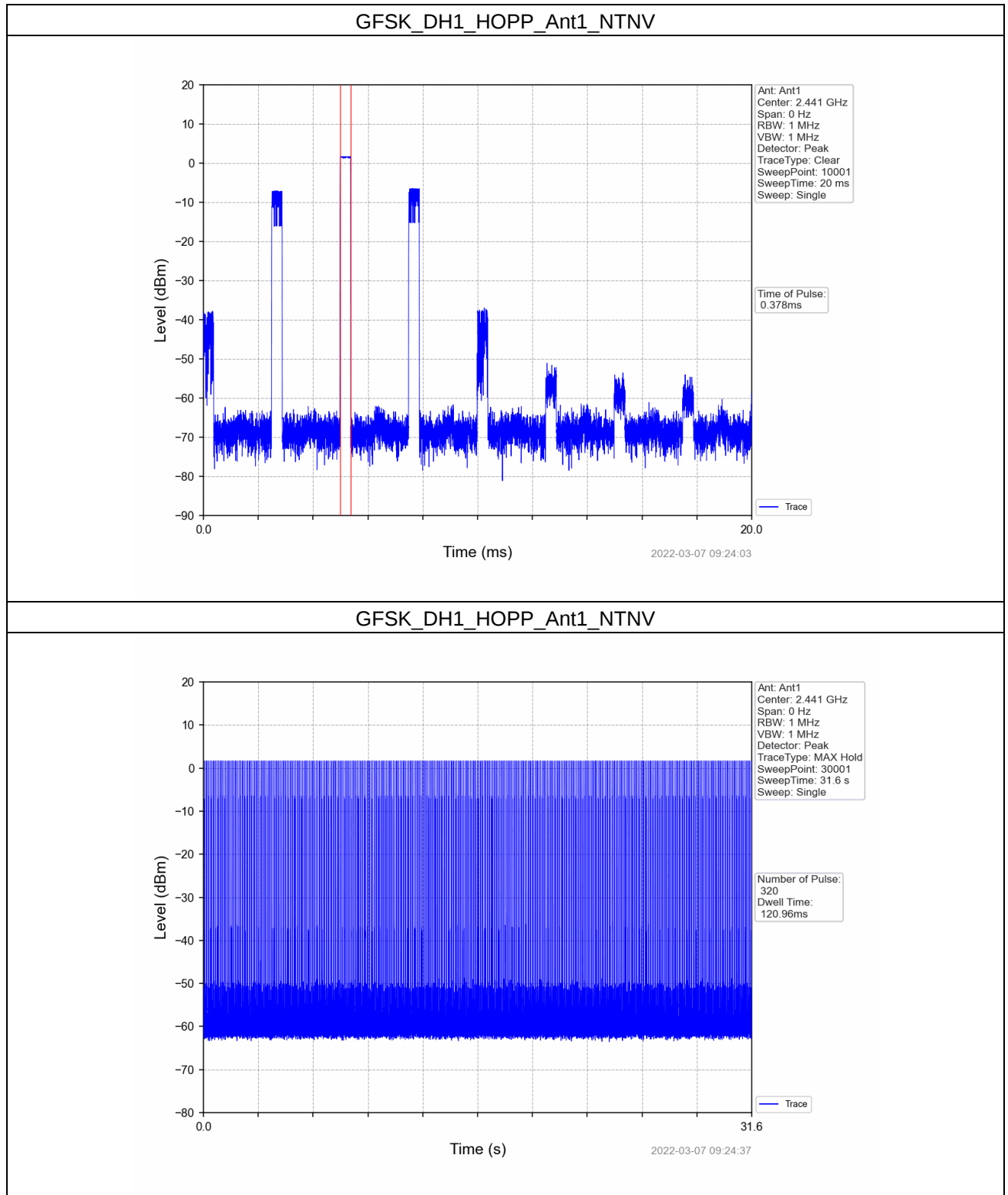
Ant1									
Mode	Tx Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.378	31.600	320	120.960	<=400	Pass
			DH3	1.634	31.600	160	261.440	<=400	Pass
			DH5	2.884	31.600	107	308.588	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	320	125.440	<=400	Pass
			2DH3	1.642	31.600	160	262.720	<=400	Pass
			2DH5	2.890	31.600	107	309.230	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	320	124.800	<=400	Pass
			3DH3	1.640	31.600	160	262.400	<=400	Pass
			3DH5	2.890	31.600	106	306.340	<=400	Pass



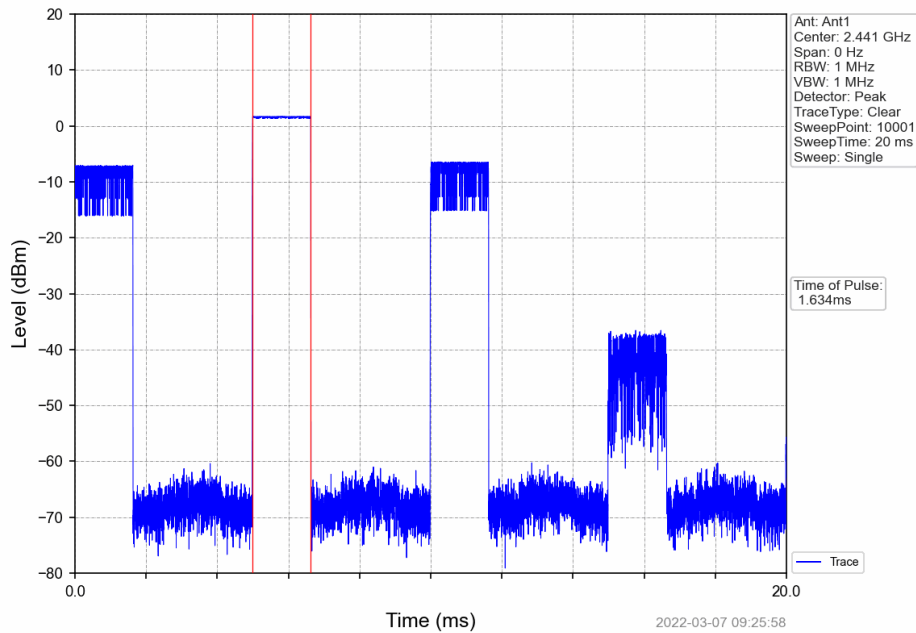
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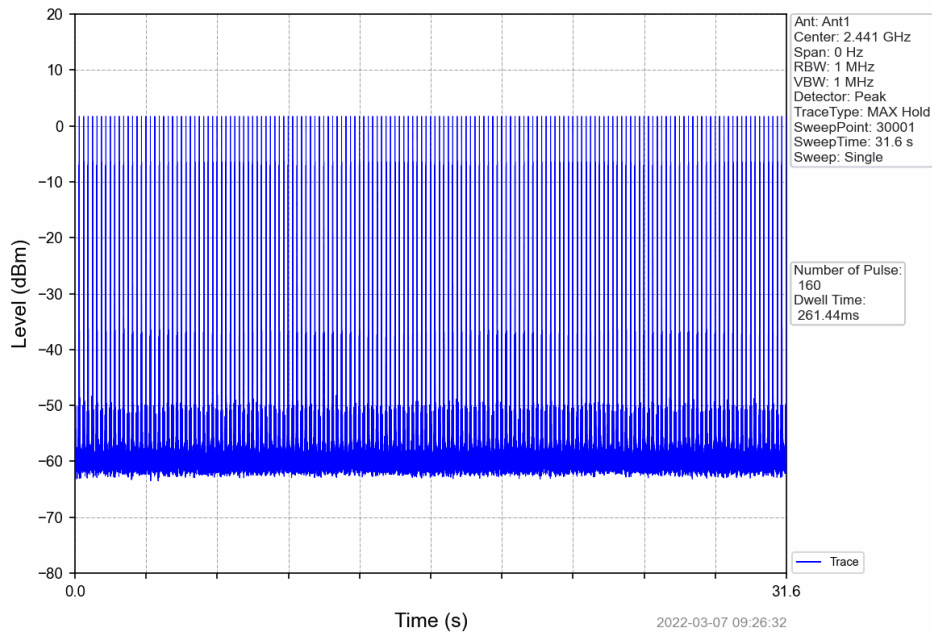
5.1.2 Test Graph



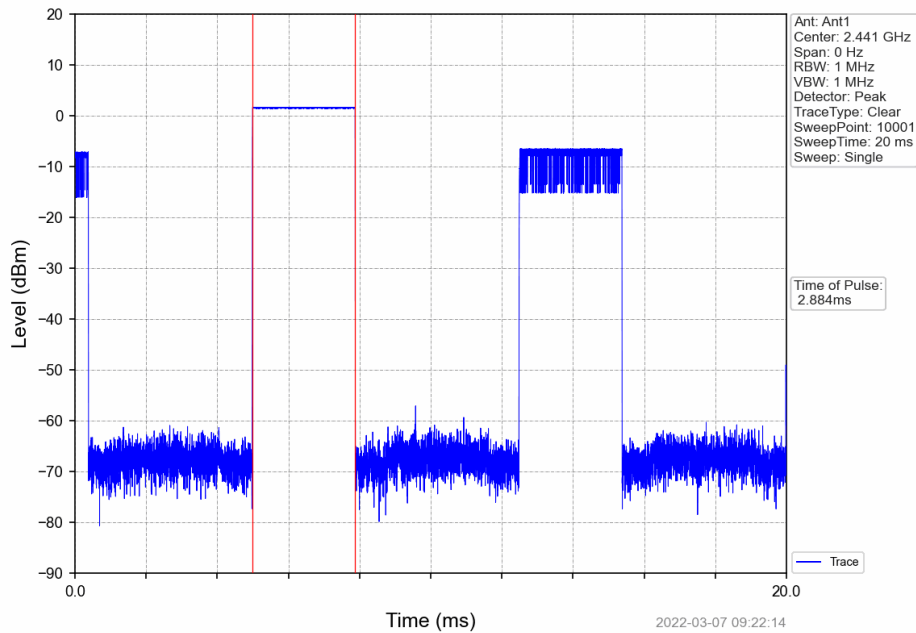
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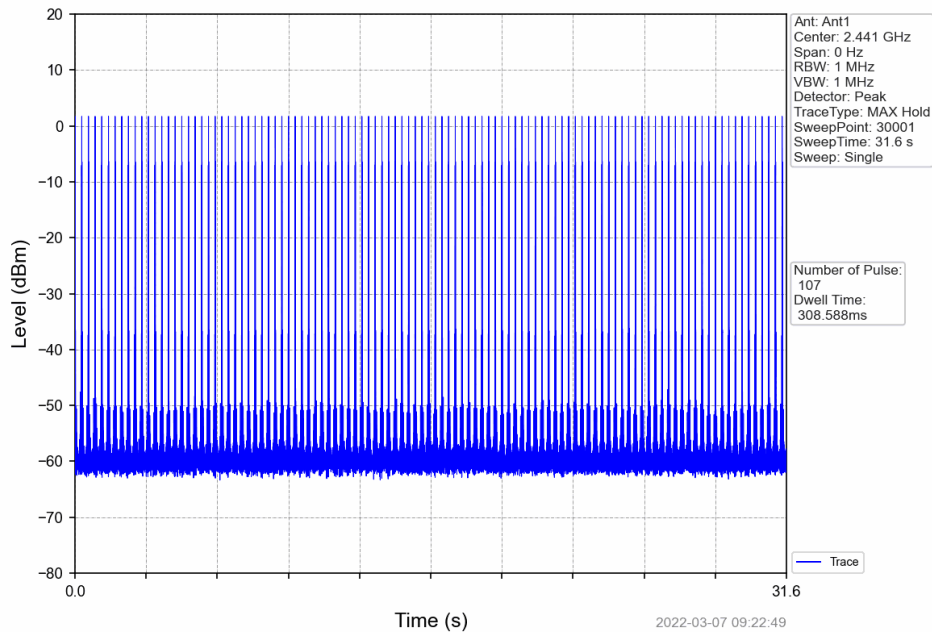
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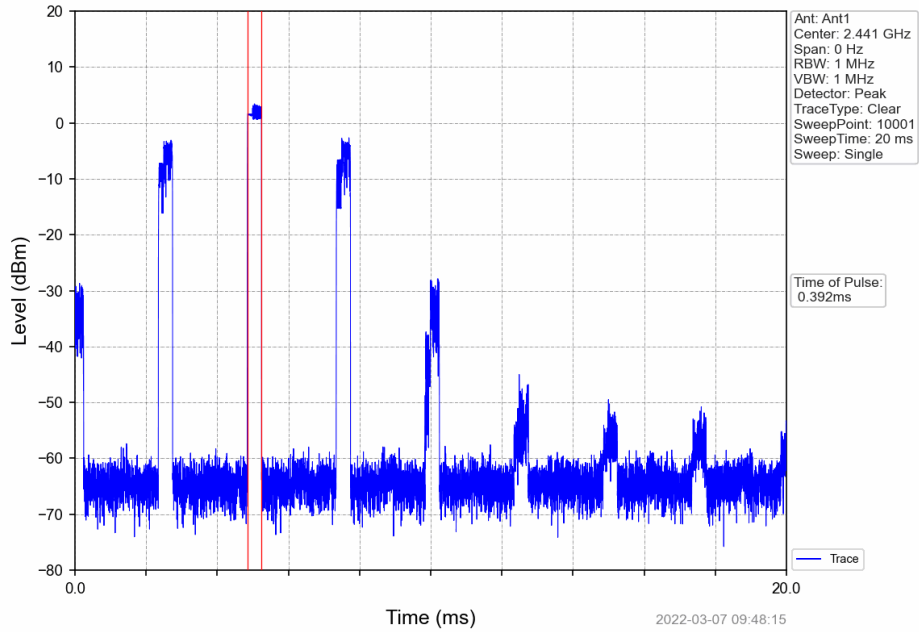
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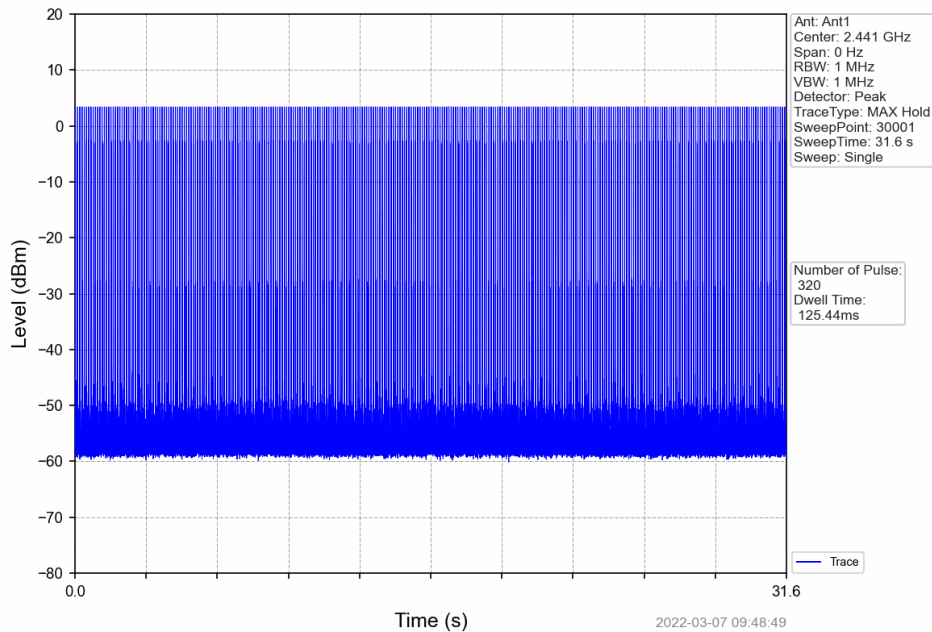
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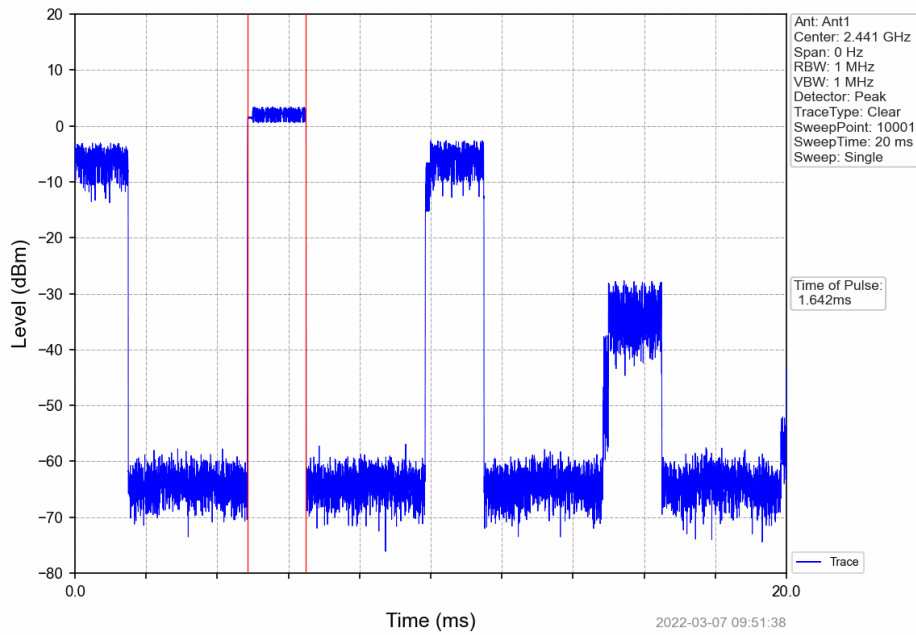
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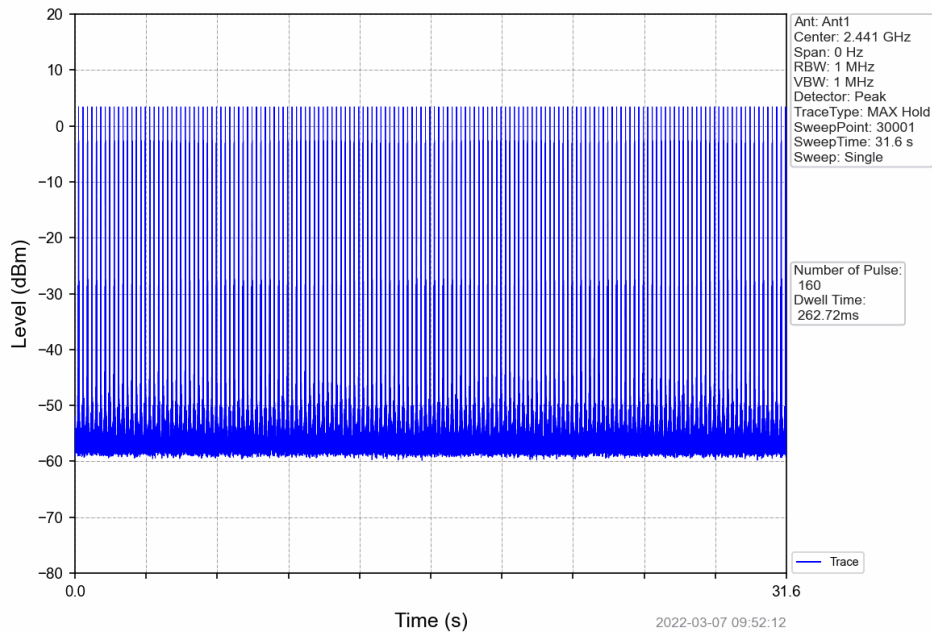
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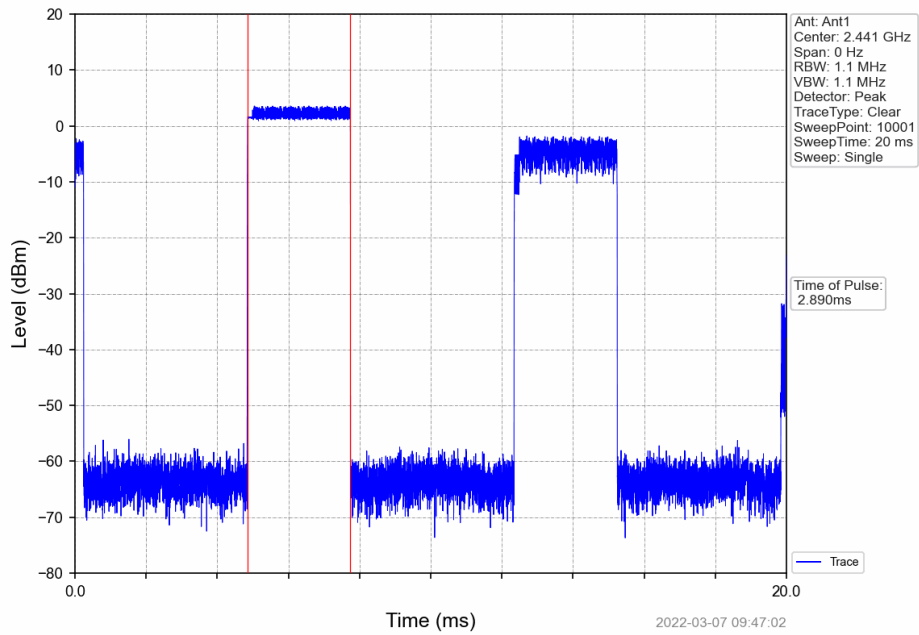
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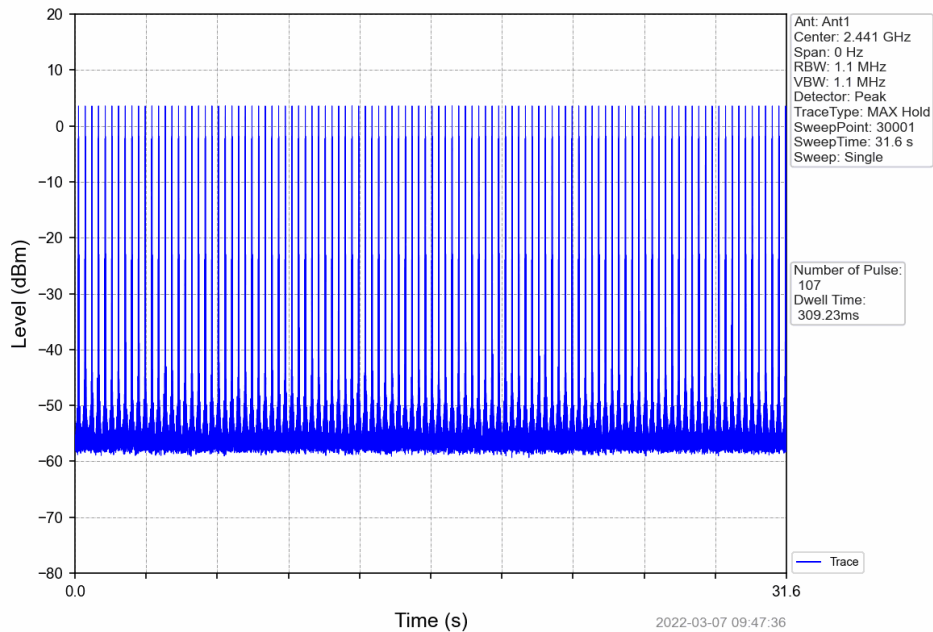
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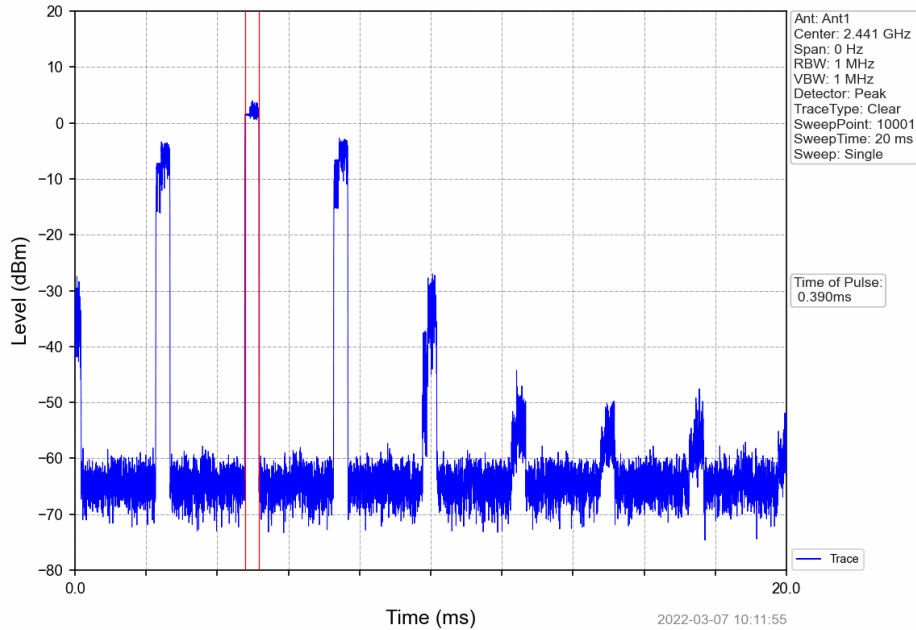
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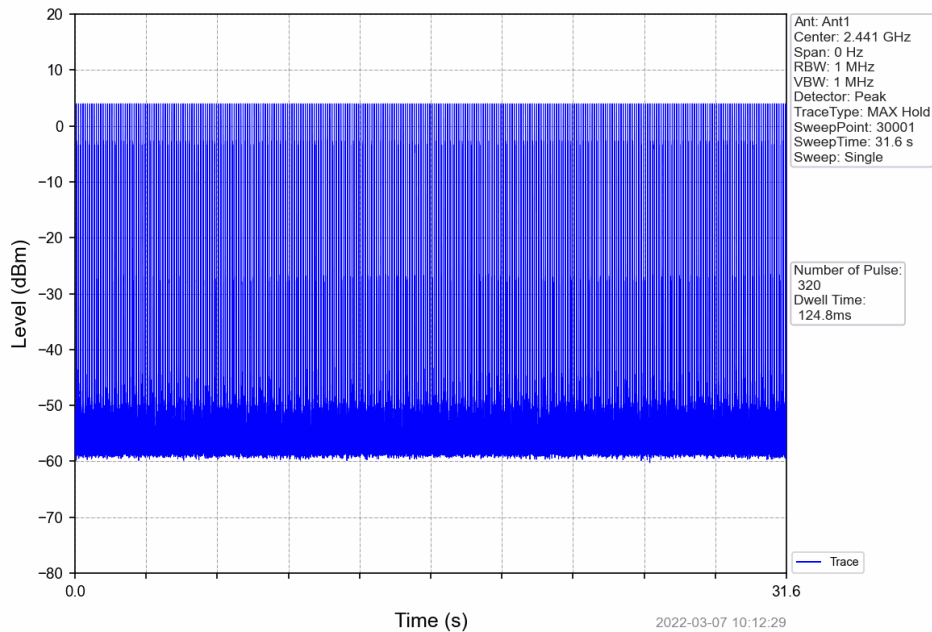
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV

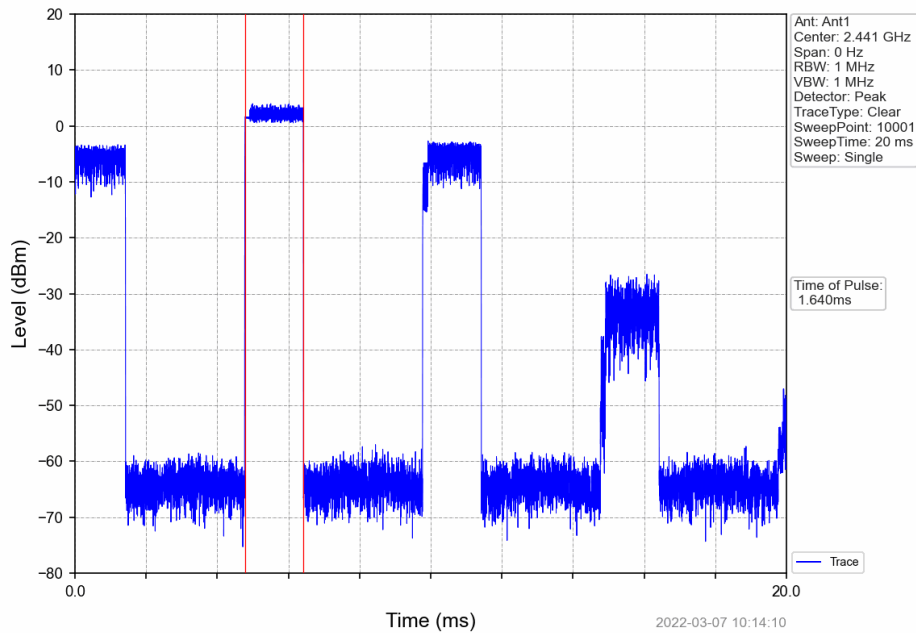


8DPSK_3DH1_HOPP_Ant1_NTNV

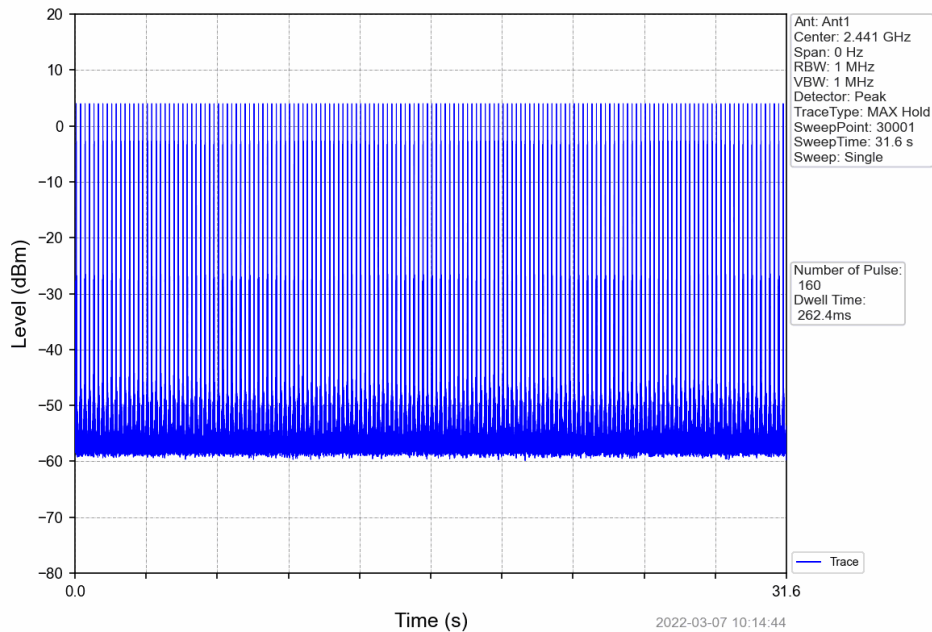


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8DPSK_3DH3_HOPP_Ant1_NTNV



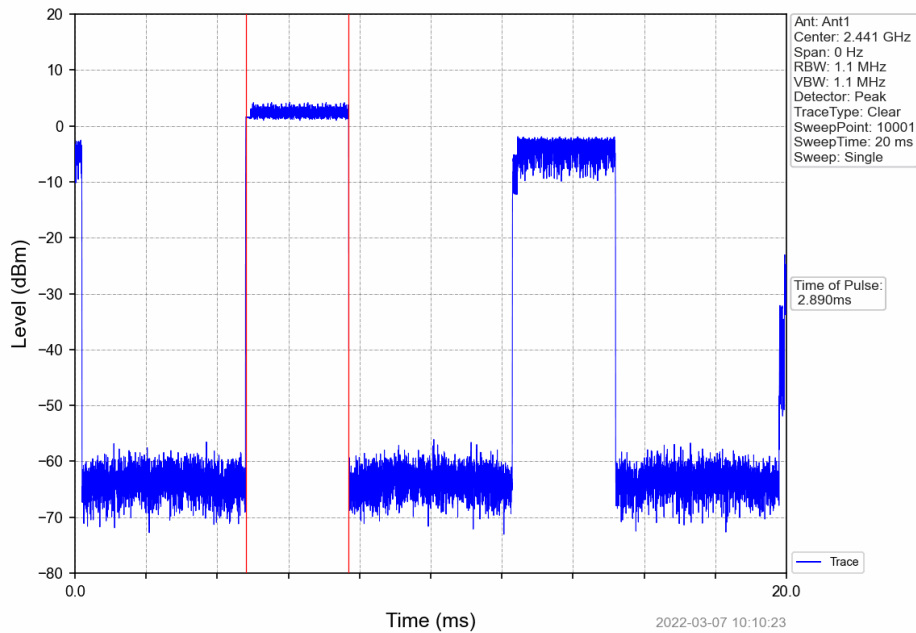
8DPSK_3DH3_HOPP_Ant1_NTNV



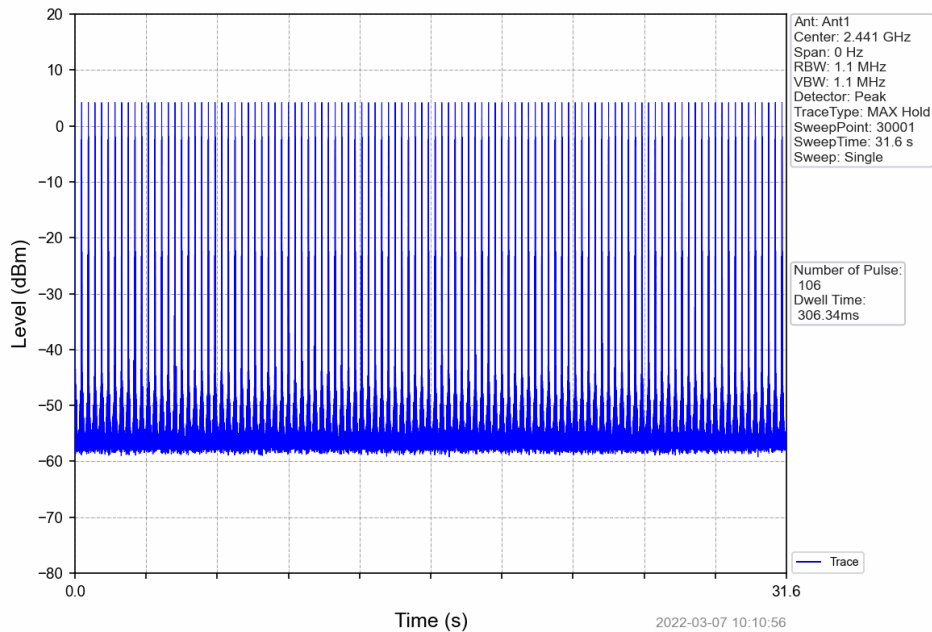
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

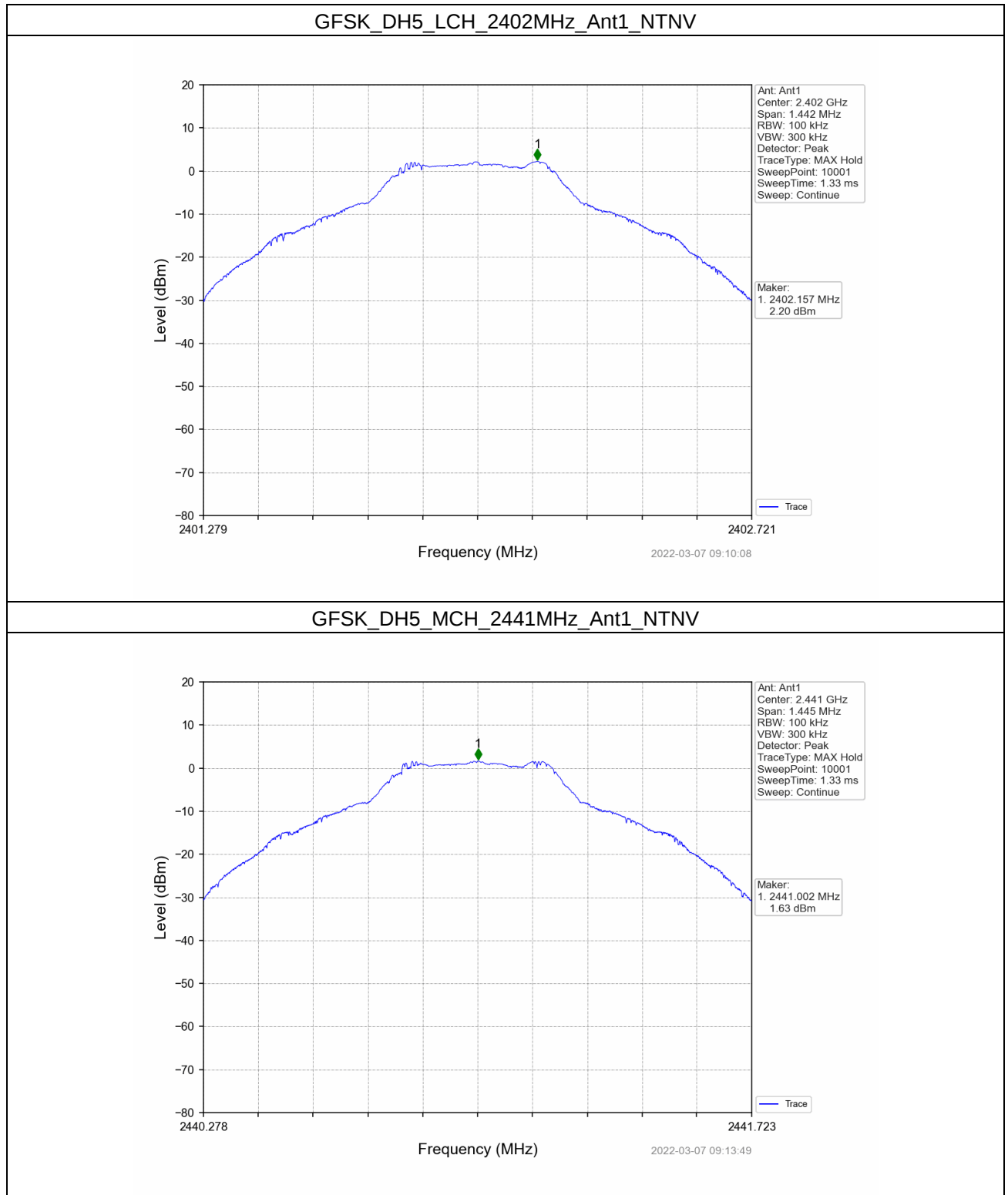
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.20
		2441	DH5	1	1.63
		2480	DH5	1	1.58
Pi/4DQPSK	SISO	2402	2DH5	1	2.03
		2441	2DH5	1	1.57
		2480	2DH5	1	1.39
8DPSK	SISO	2402	3DH5	1	2.04
		2441	3DH5	1	1.64
		2480	3DH5	1	1.43

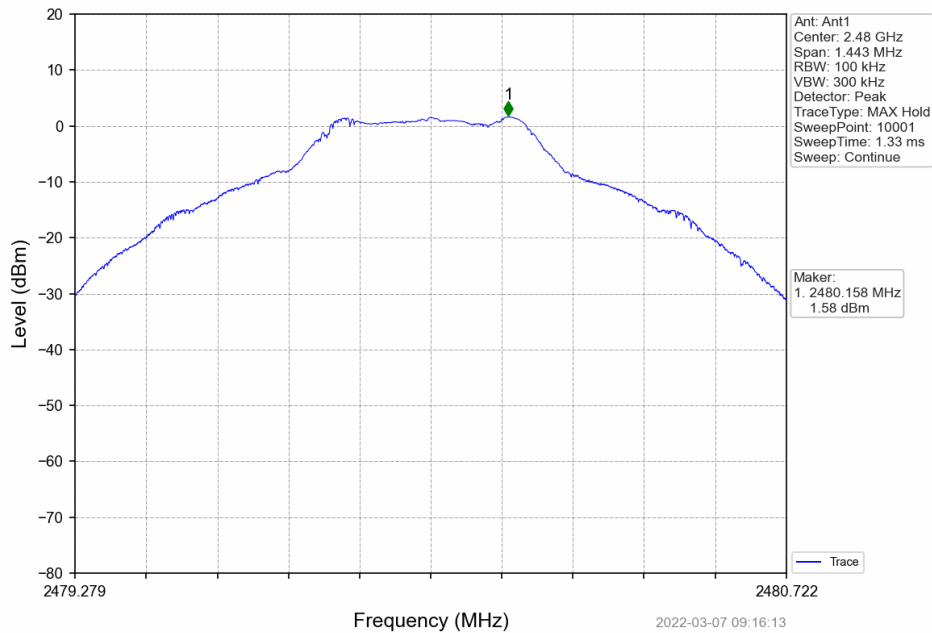
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

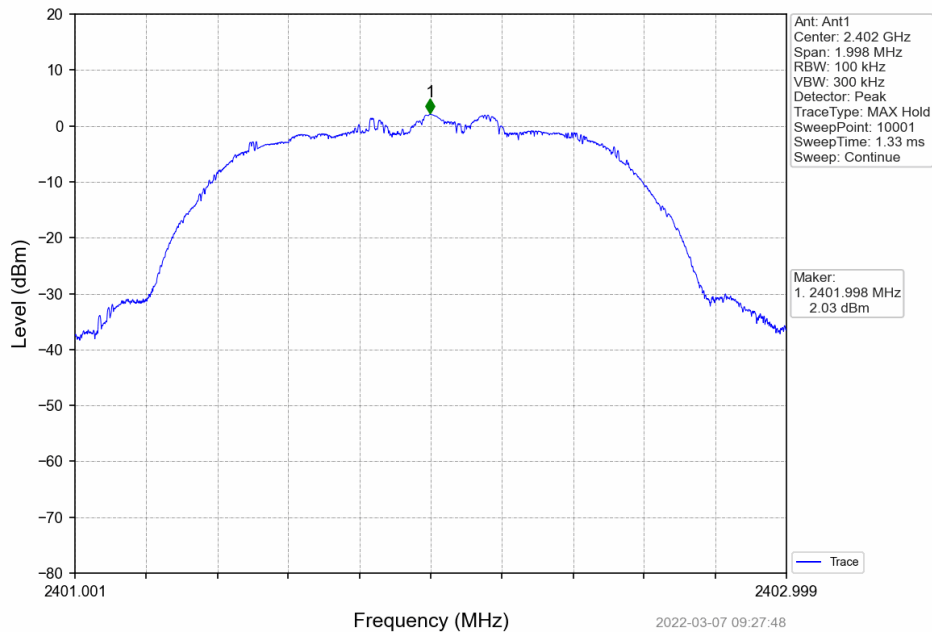
6.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV

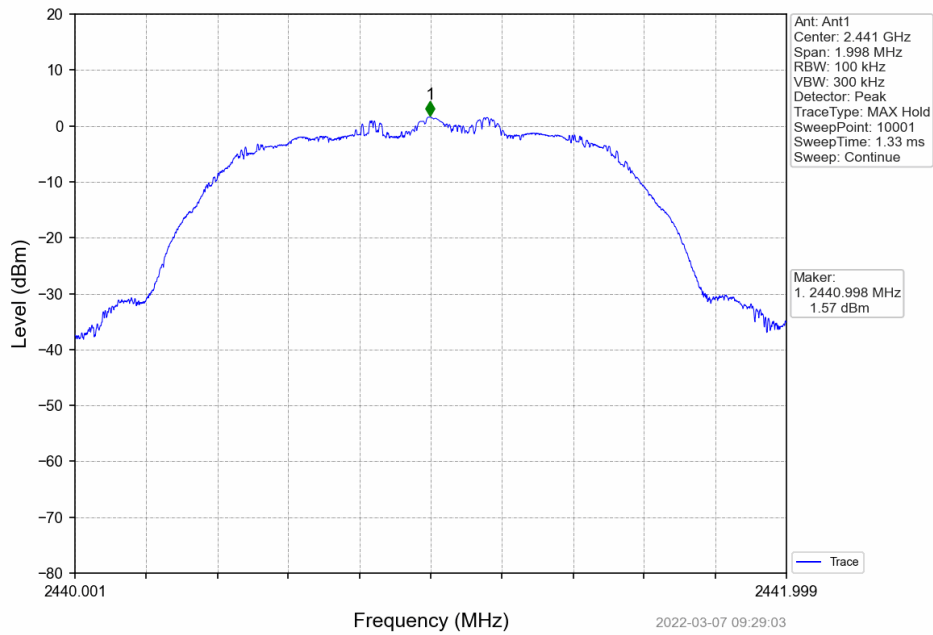


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

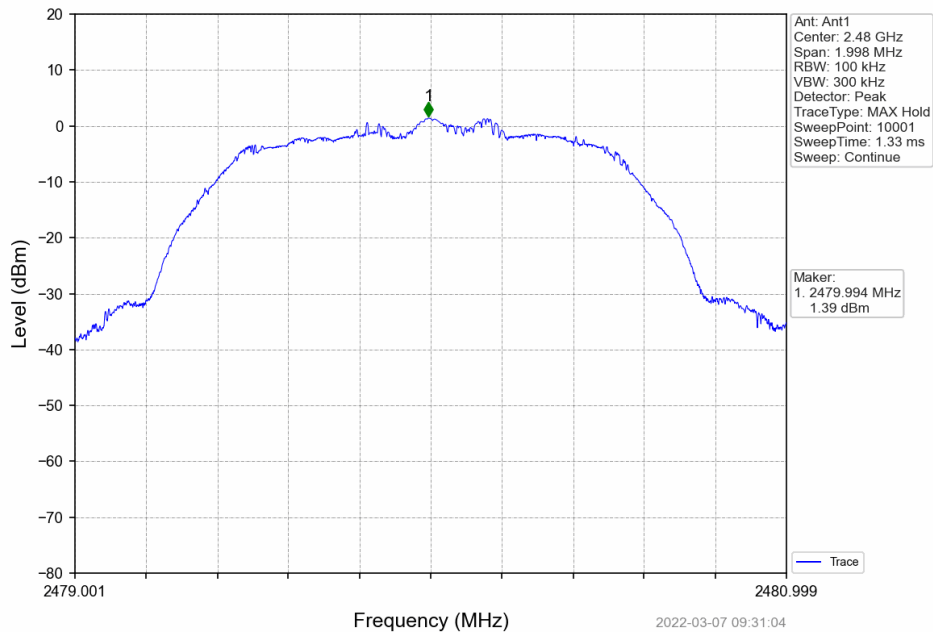


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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

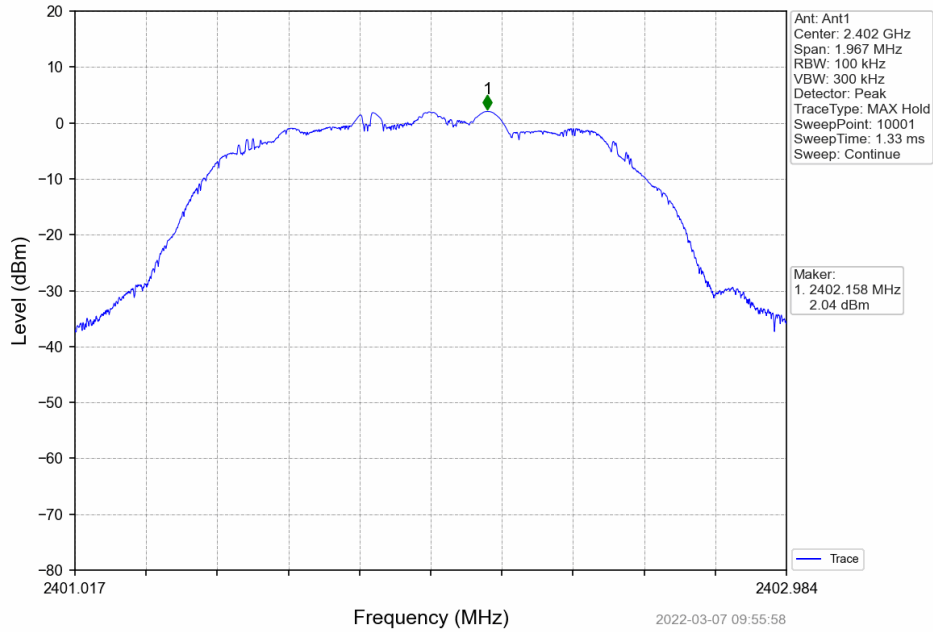


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

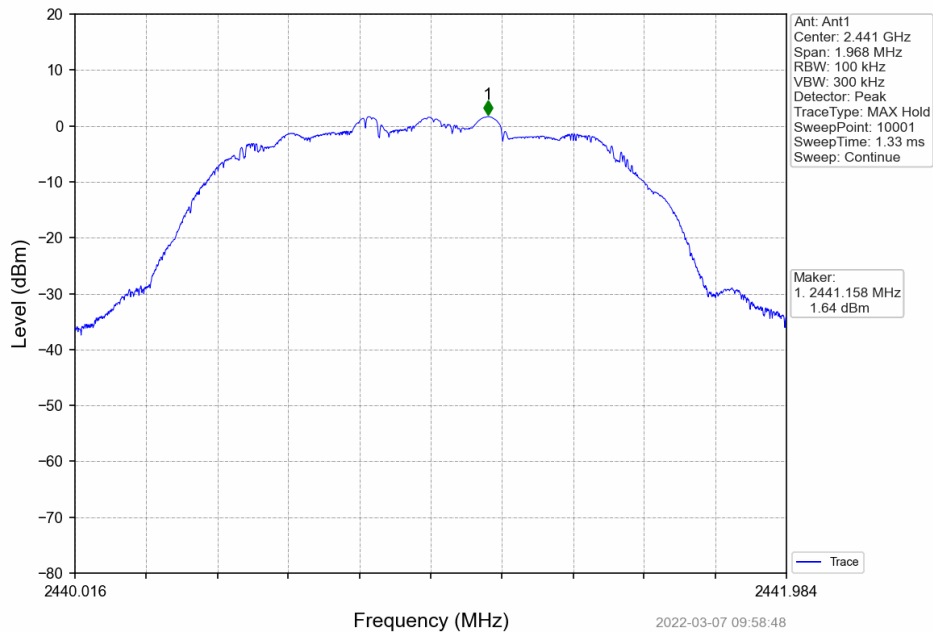


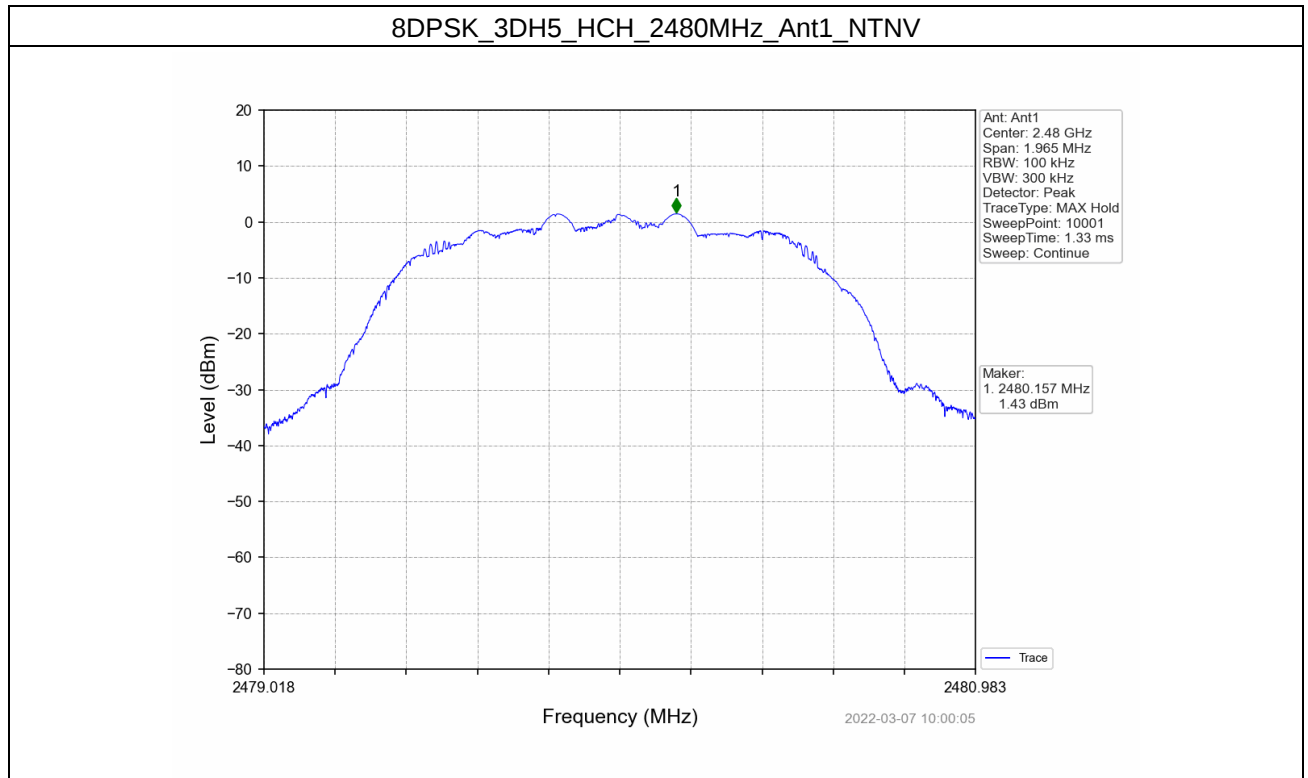
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





6.2 CSE

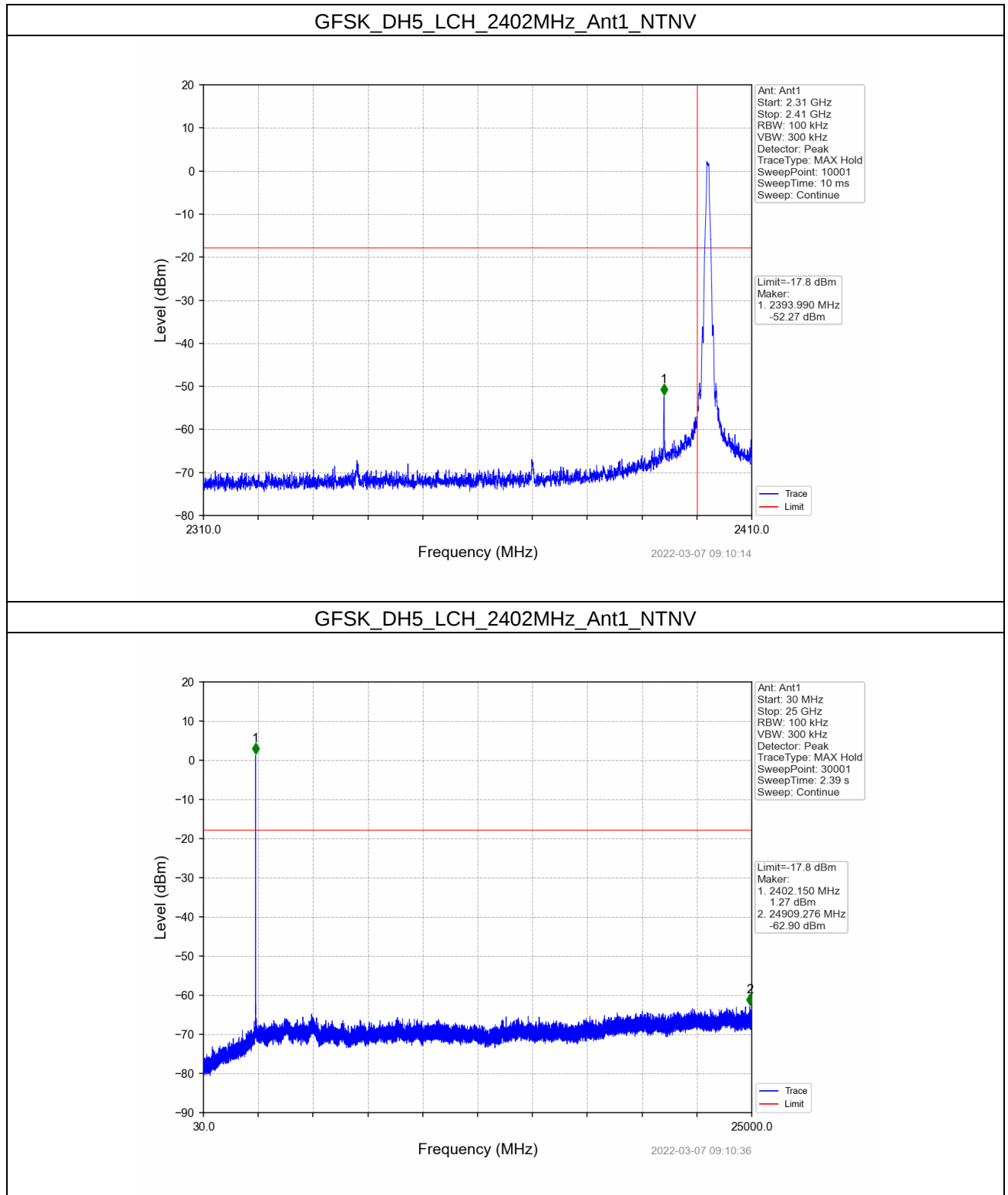
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.20	-17.80	Pass
		2441	DH5	1	2.20	-17.80	Pass
		2480	DH5	1	2.20	-17.80	Pass
		HOPP	DH5	1	2.20	-17.80	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.03	-17.97	Pass
		2441	2DH5	1	2.03	-17.97	Pass
		2480	2DH5	1	2.03	-17.97	Pass
		HOPP	2DH5	1	2.03	-17.97	Pass
8DPSK	SISO	2402	3DH5	1	2.04	-17.96	Pass
		2441	3DH5	1	2.04	-17.96	Pass
		2480	3DH5	1	2.04	-17.96	Pass
		HOPP	3DH5	1	2.04	-17.96	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.

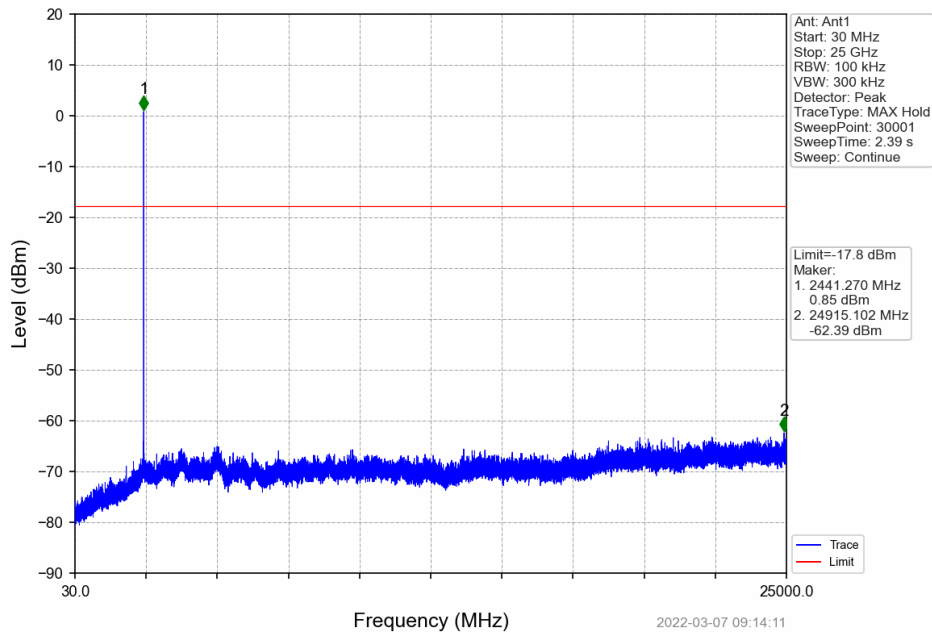
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

6.2.2 Test Graph

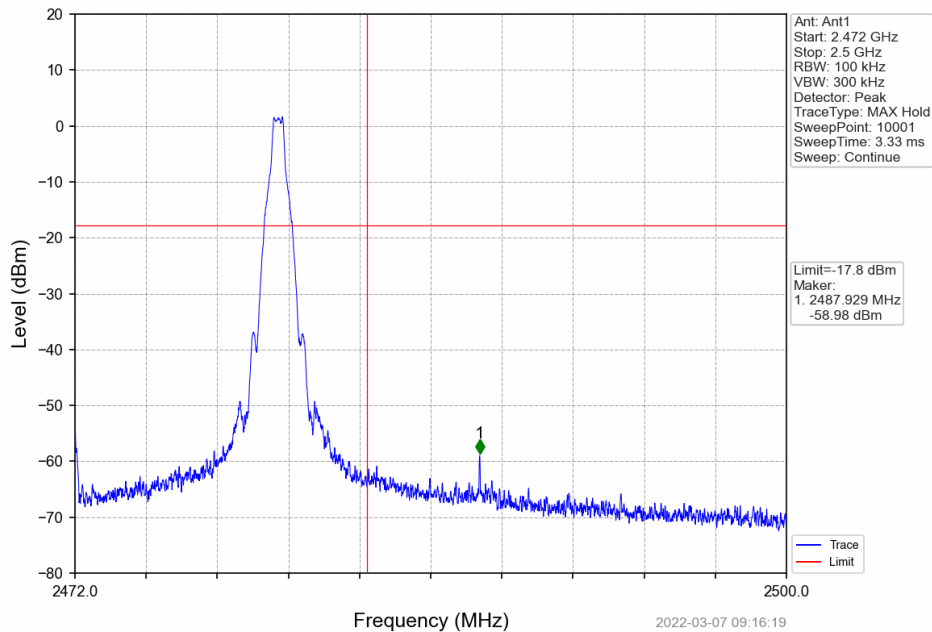


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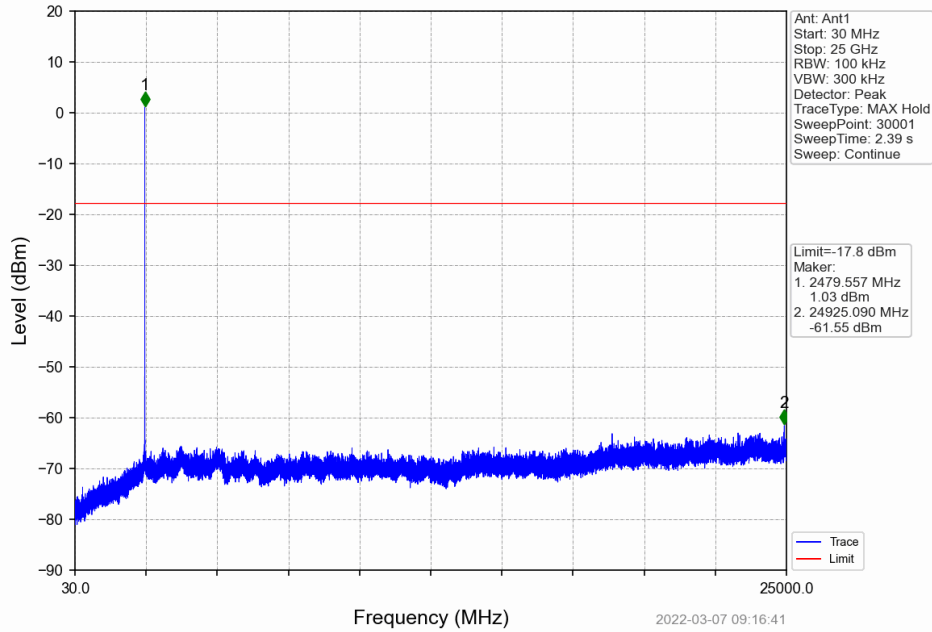
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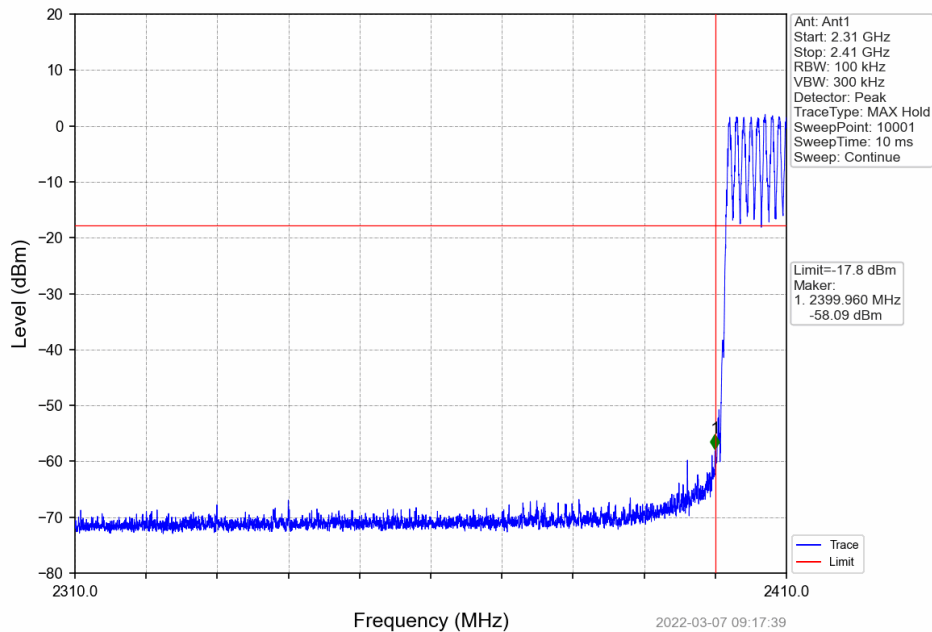
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



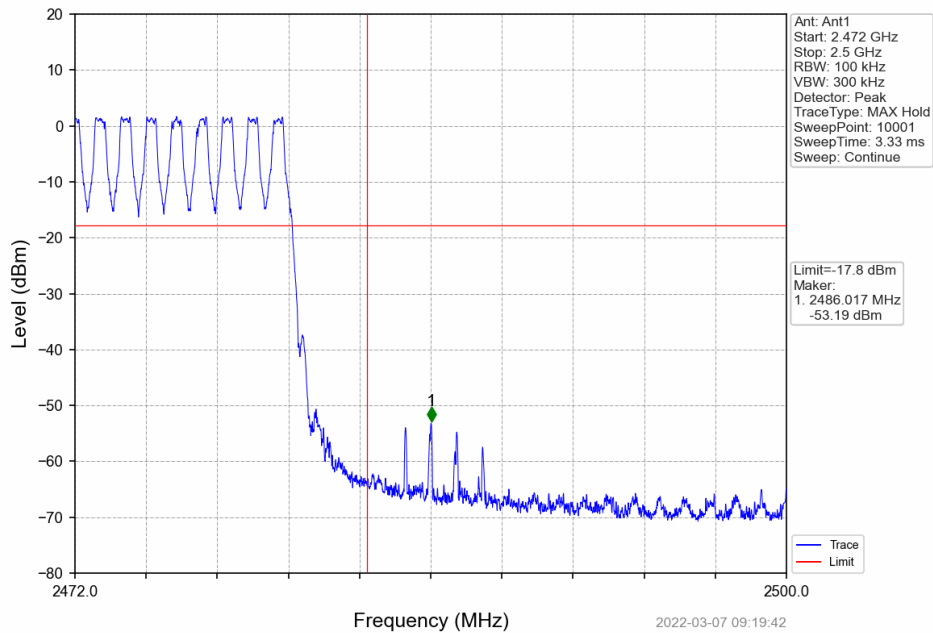
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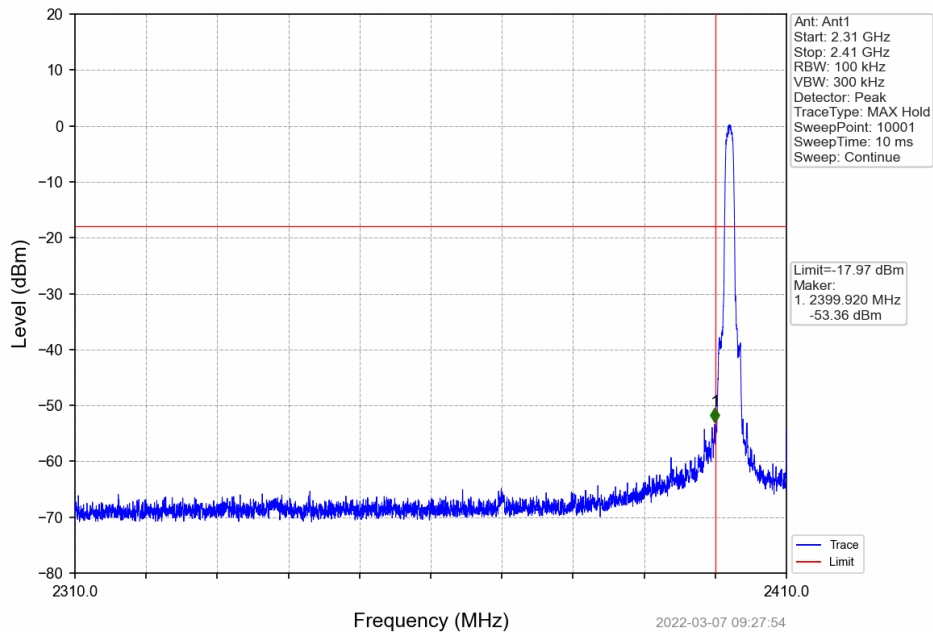
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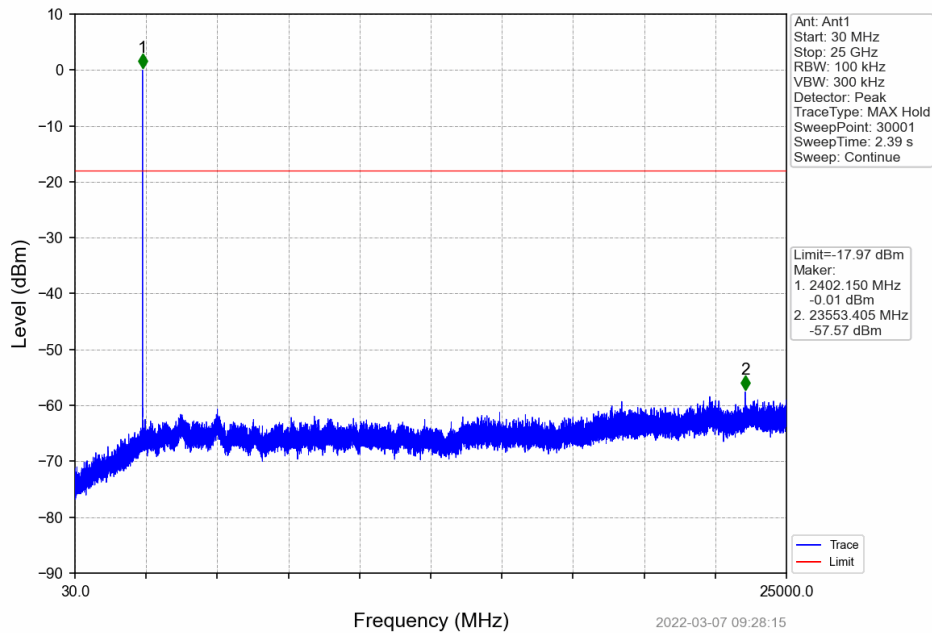
GFSK_DH5_HOPP_Ant1_NTNV



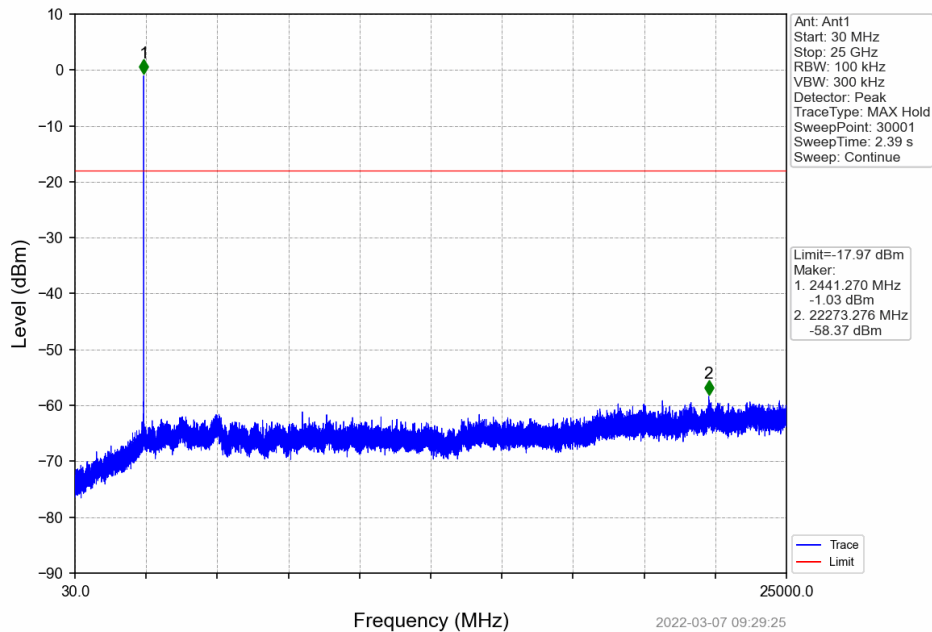
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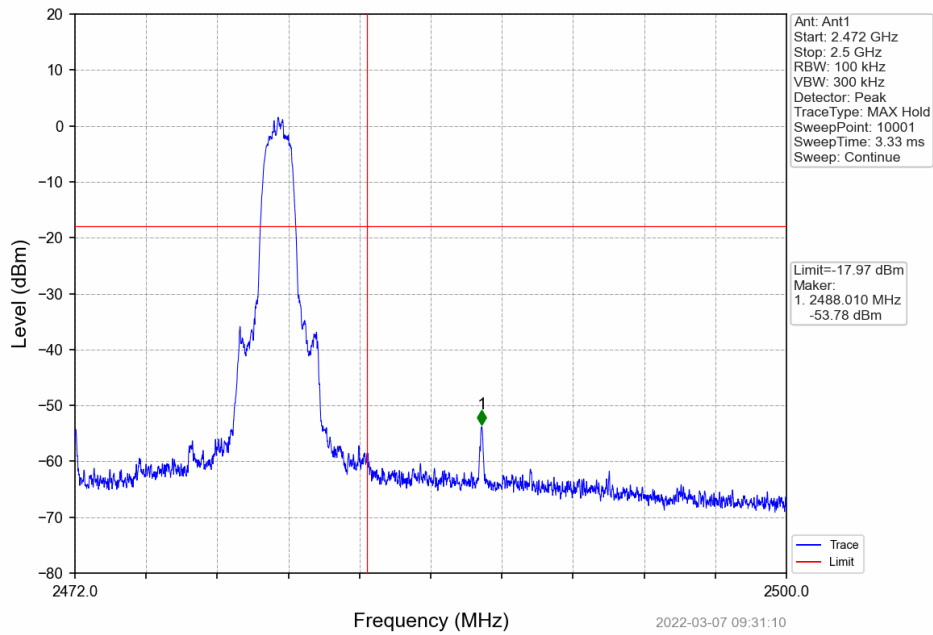
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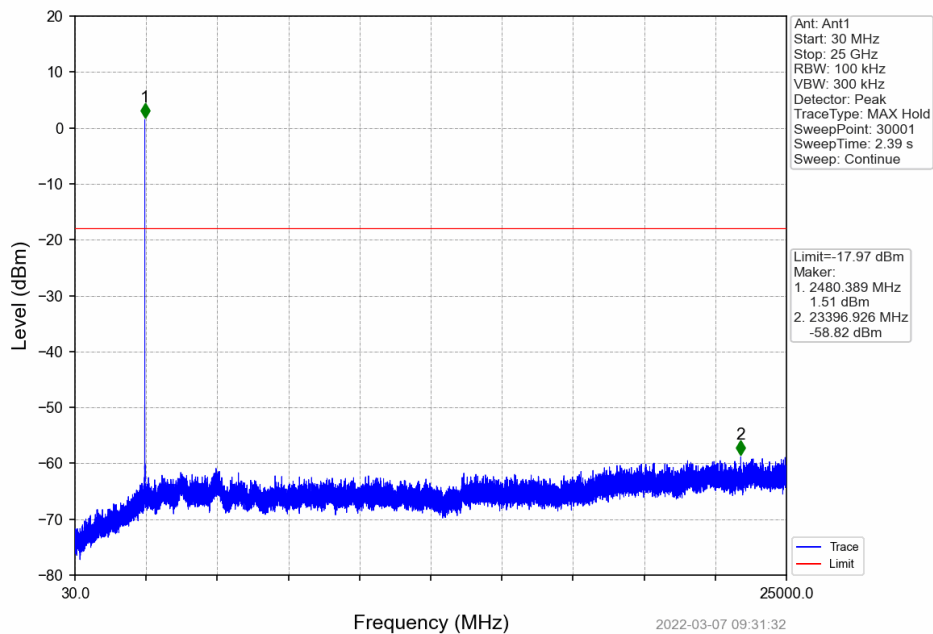
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

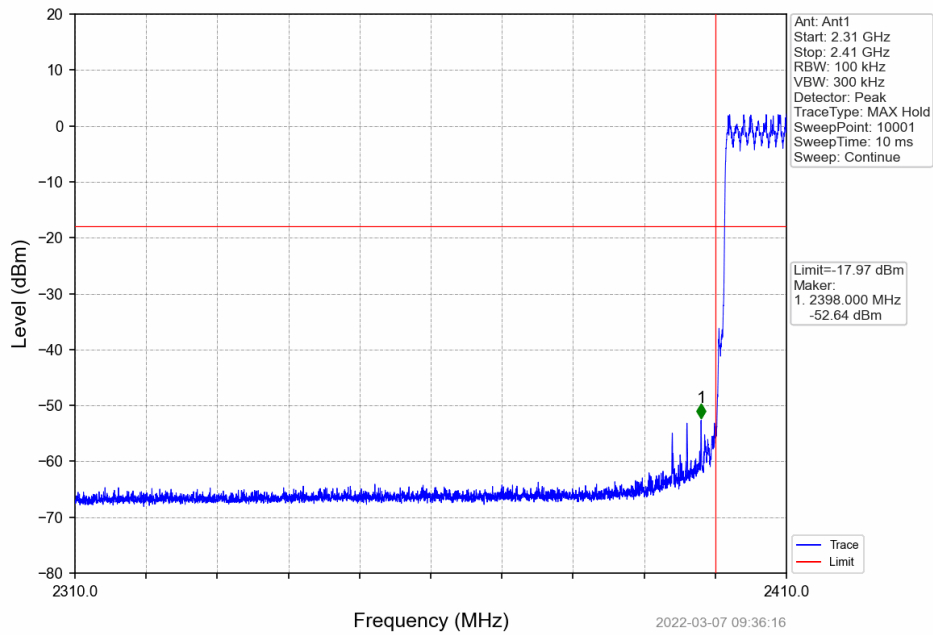


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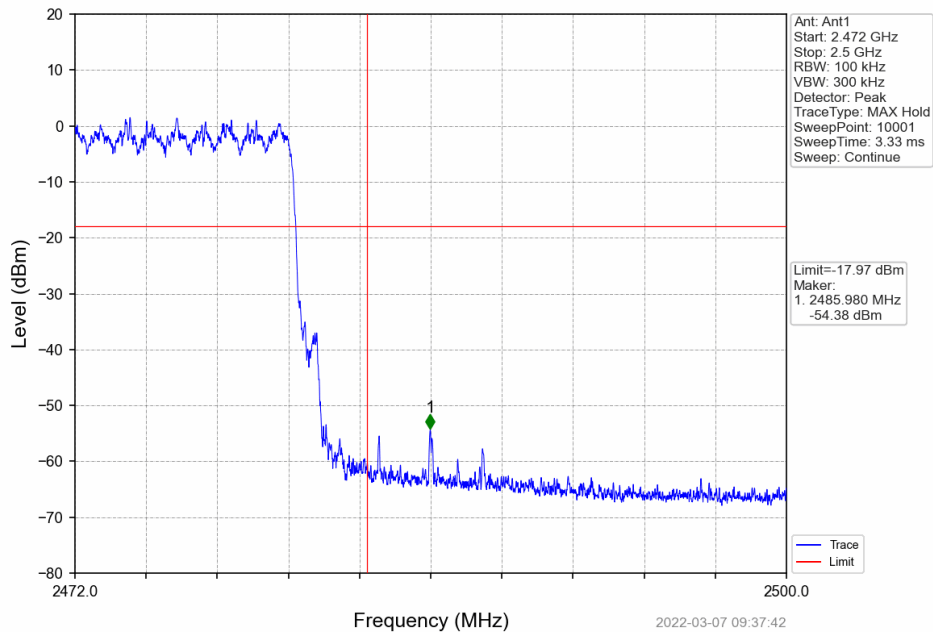
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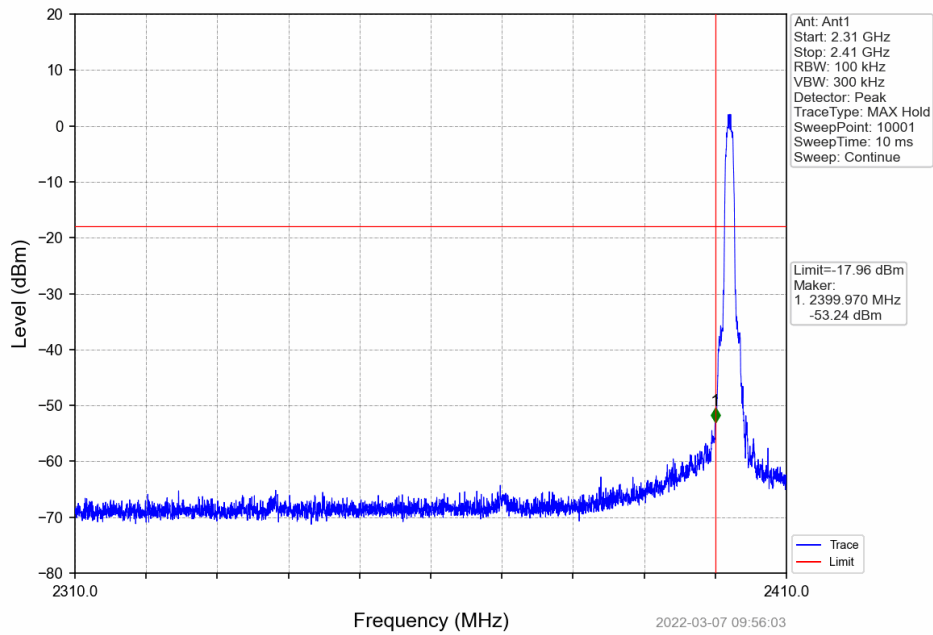
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



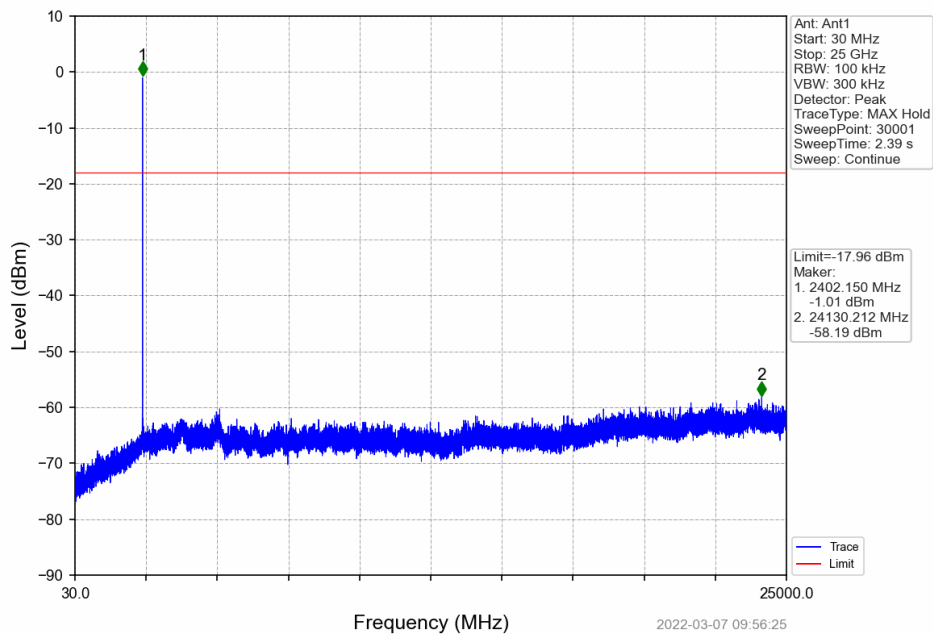
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



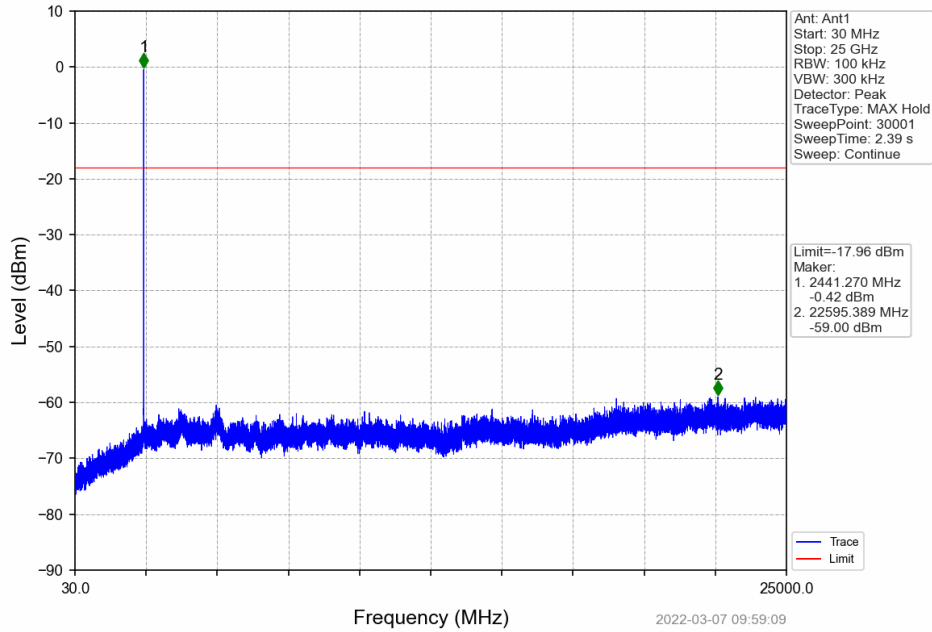
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



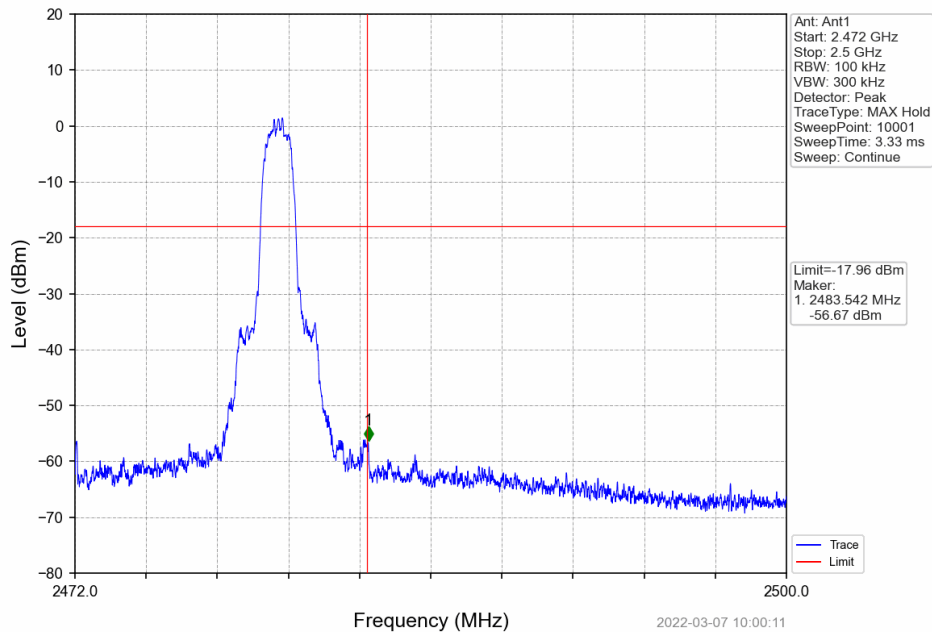
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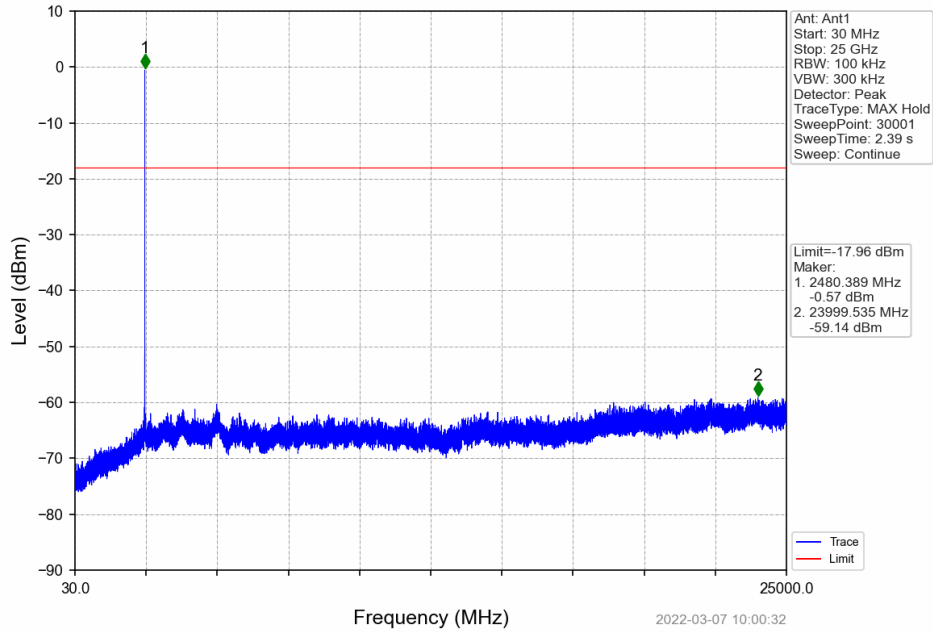
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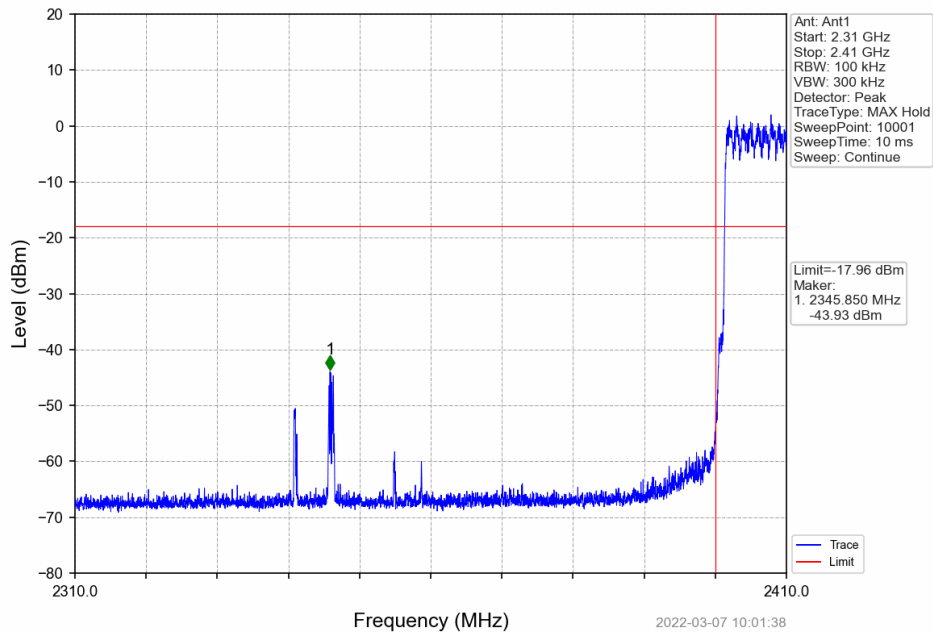
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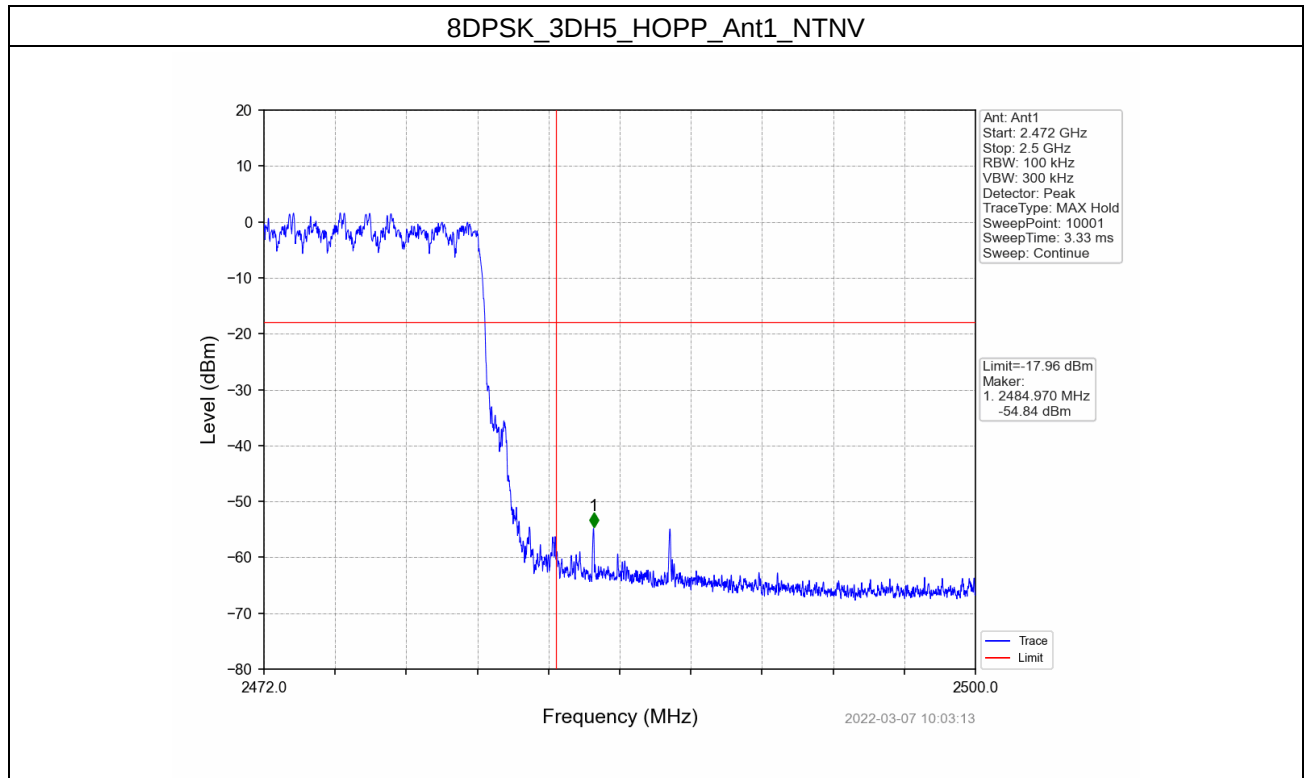


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





- End of the Report -