

ANNEX 1 TEST DATA

FCC ID: 2AXV7-X7A

Applicant: DongGuan Kemi Electronics Technology Co., Ltd

Address: Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China

Manufacturer: DongGuan Kemi Electronics Technology Co., Ltd

Address: Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China

Product Name: Bone Conduction Headphones

Trade Mark: N/A

Model Number: X7

Date of Receipt: Jul. 13, 2025

Test Date: Jul. 13, 2025 - Jul. 28, 2025

Date of Report: Jul. 28, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10:2013

Test Result: Pass

1. Bandwidth

1.1 Test Result

1.1.1 OBW

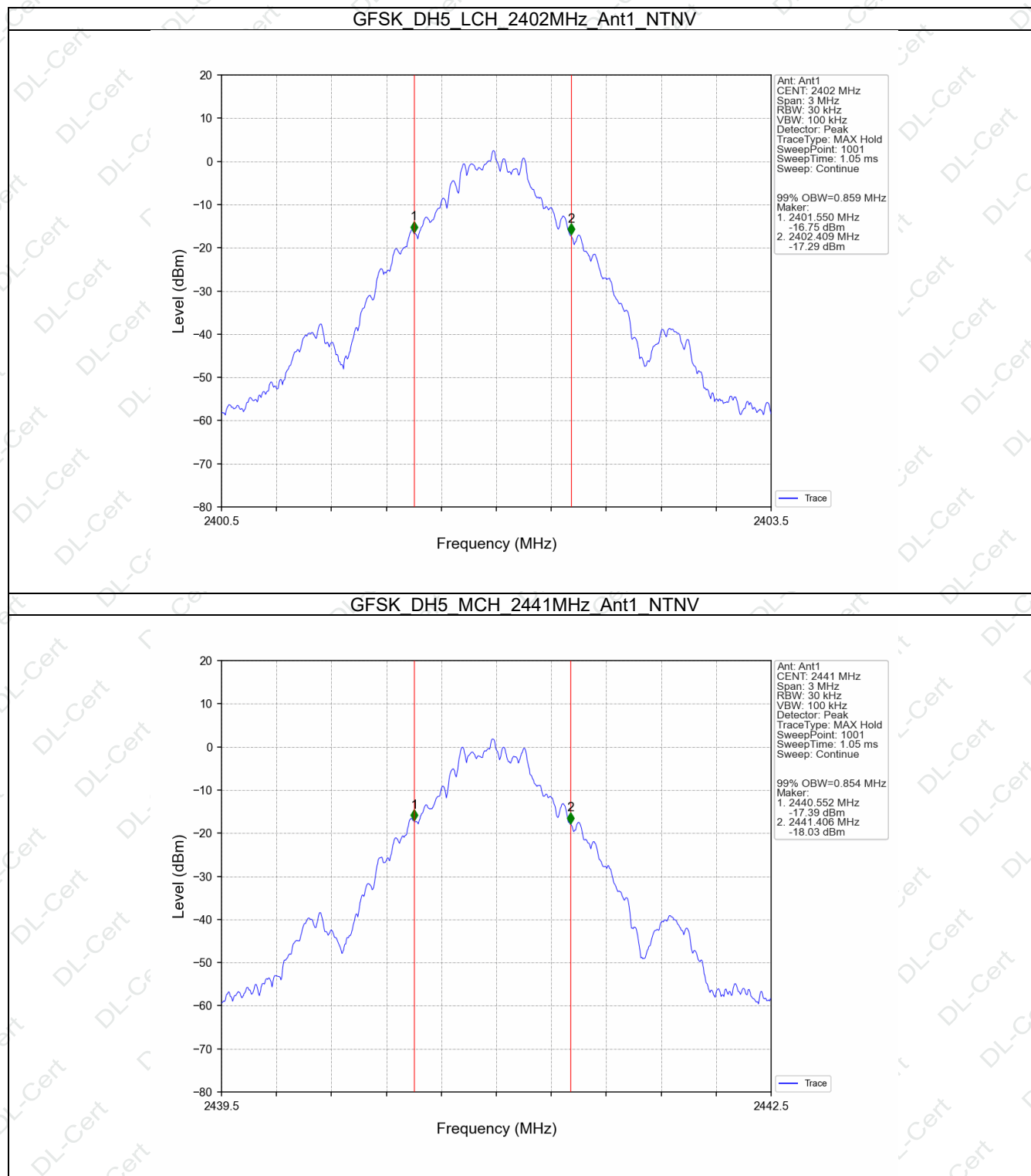
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.859	/	Pass
		2441	DH5	1	0.854	/	Pass
		2480	DH5	1	0.851	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.125	/	Pass
		2441	2DH5	1	1.120	/	Pass
		2480	2DH5	1	1.118	/	Pass
8DPSK	SISO	2402	3DH5	1	1.048	/	Pass
		2441	3DH5	1	1.057	/	Pass
		2480	3DH5	1	1.046	/	Pass

1.1.2 20dB BW

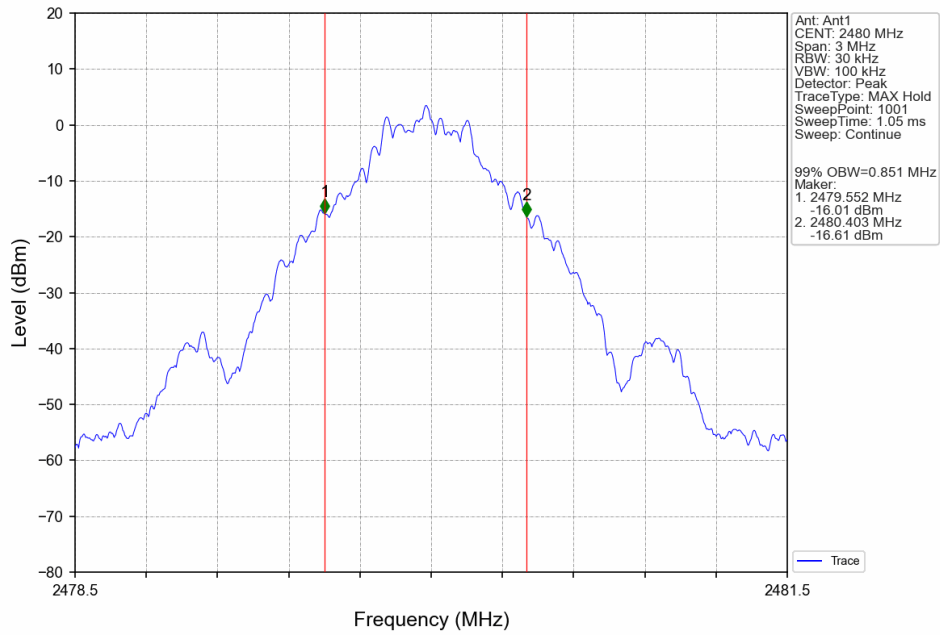
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.944	/	Pass
		2441	DH5	1	0.938	/	Pass
		2480	DH5	1	0.934	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.180	/	Pass
		2441	2DH5	1	1.178	/	Pass
		2480	2DH5	1	1.177	/	Pass
8DPSK	SISO	2402	3DH5	1	1.108	/	Pass
		2441	3DH5	1	1.107	/	Pass
		2480	3DH5	1	1.112	/	Pass

1.2 Test Graph

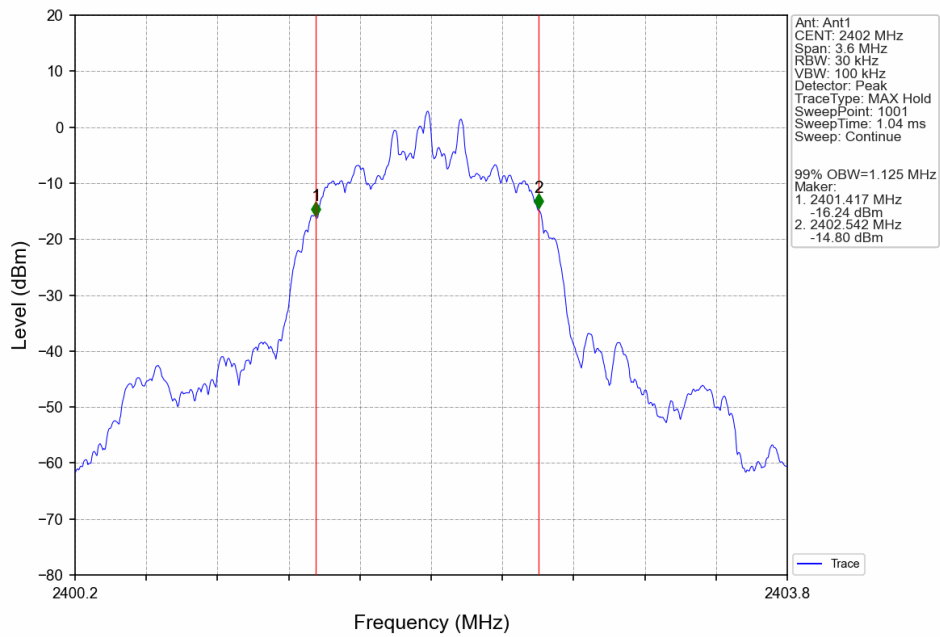
1.2.1 OBW



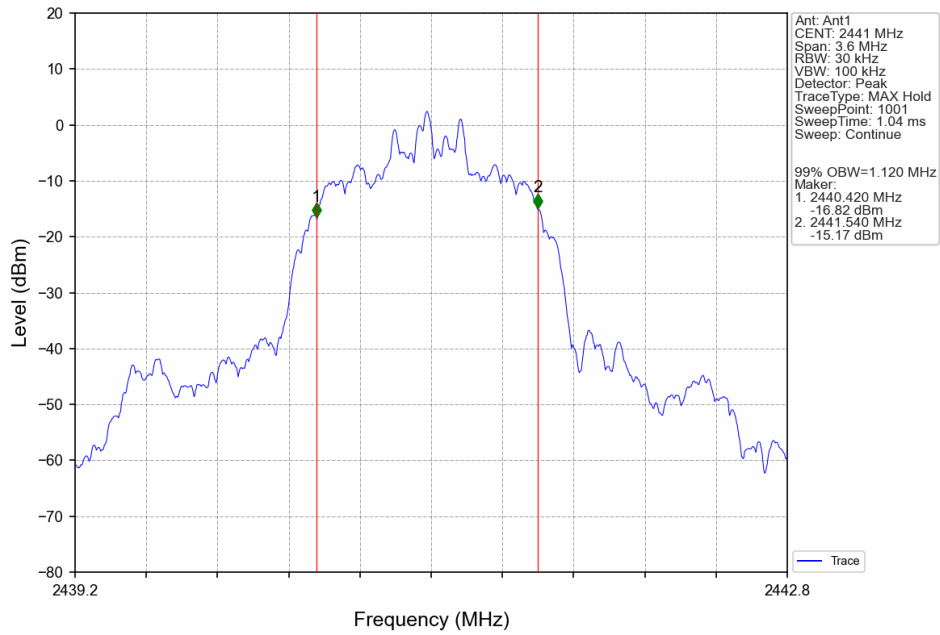
GFSK DH5 HCH 2480MHz Ant1 NTN



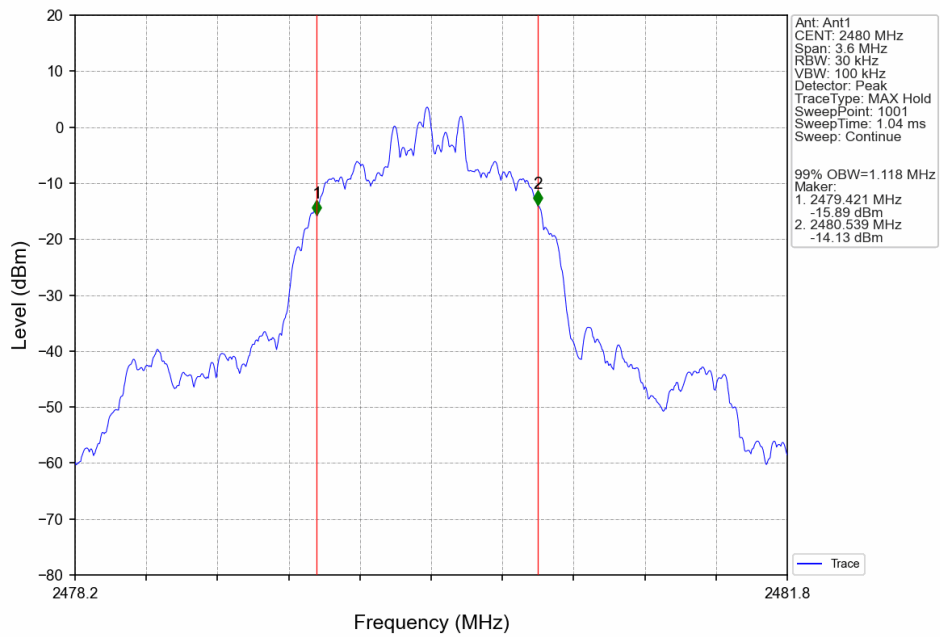
PI/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN

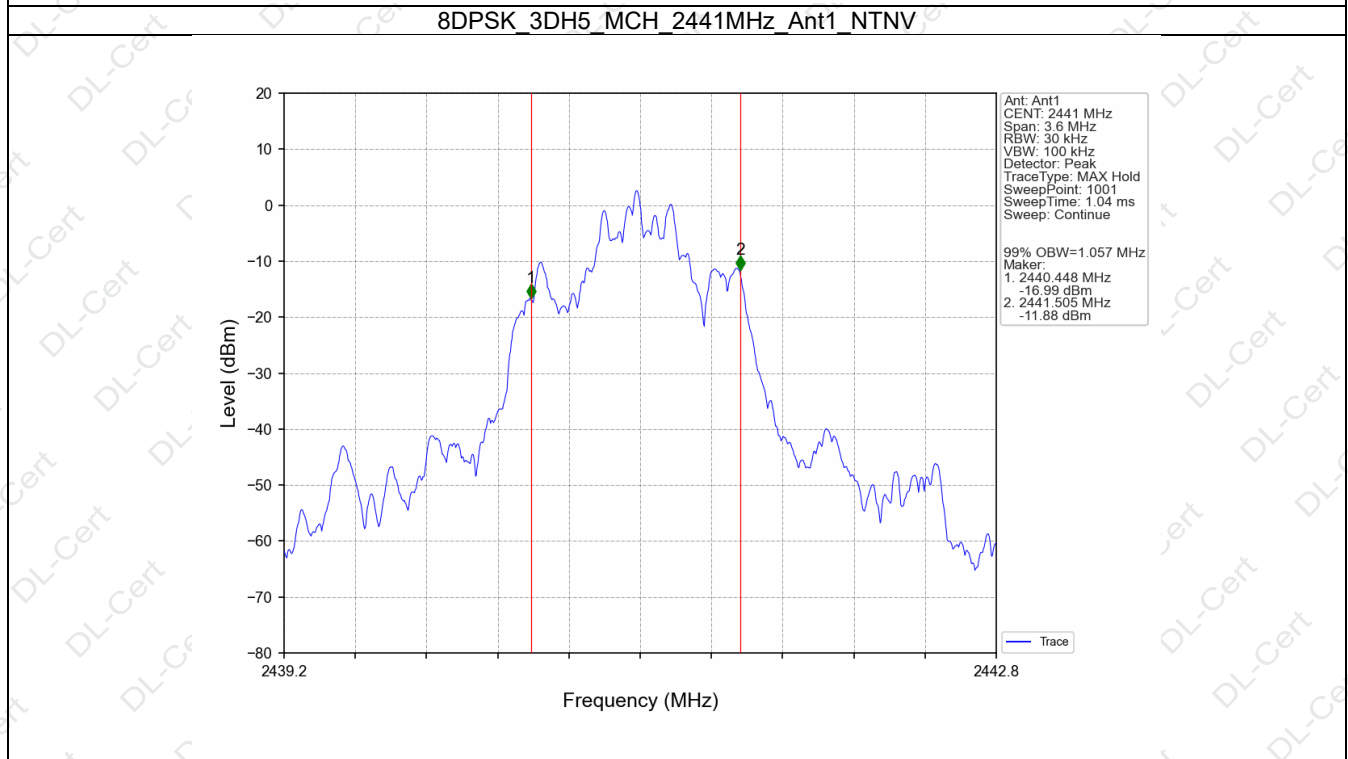
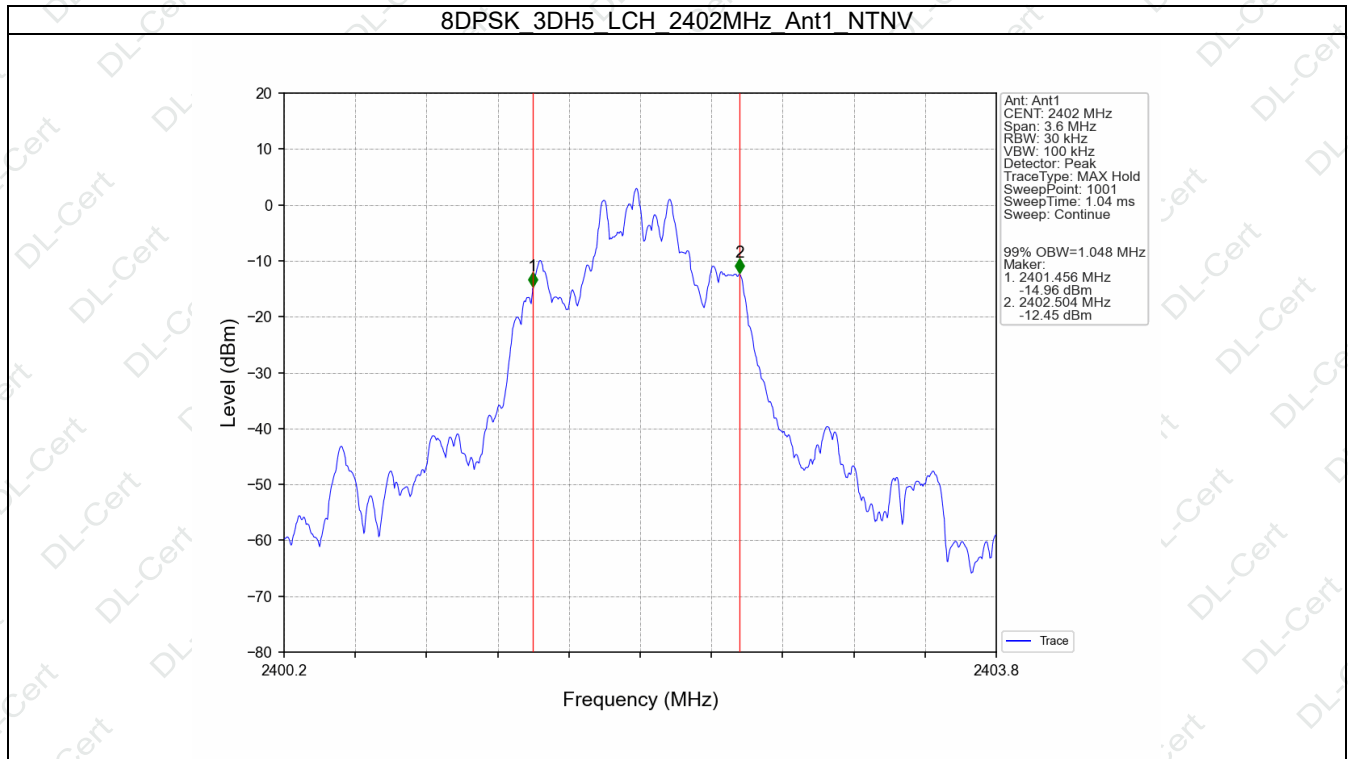


Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN

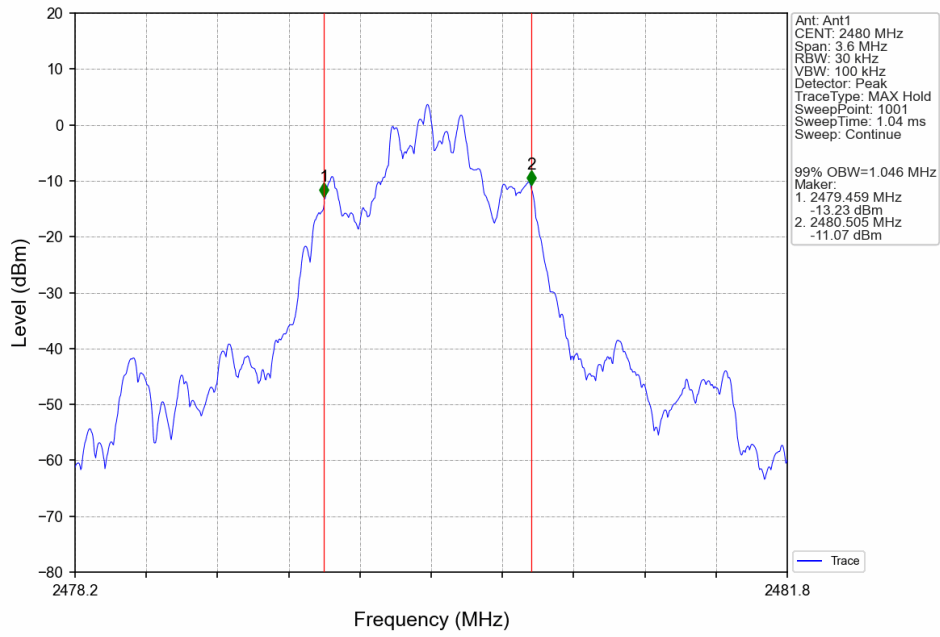


Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN

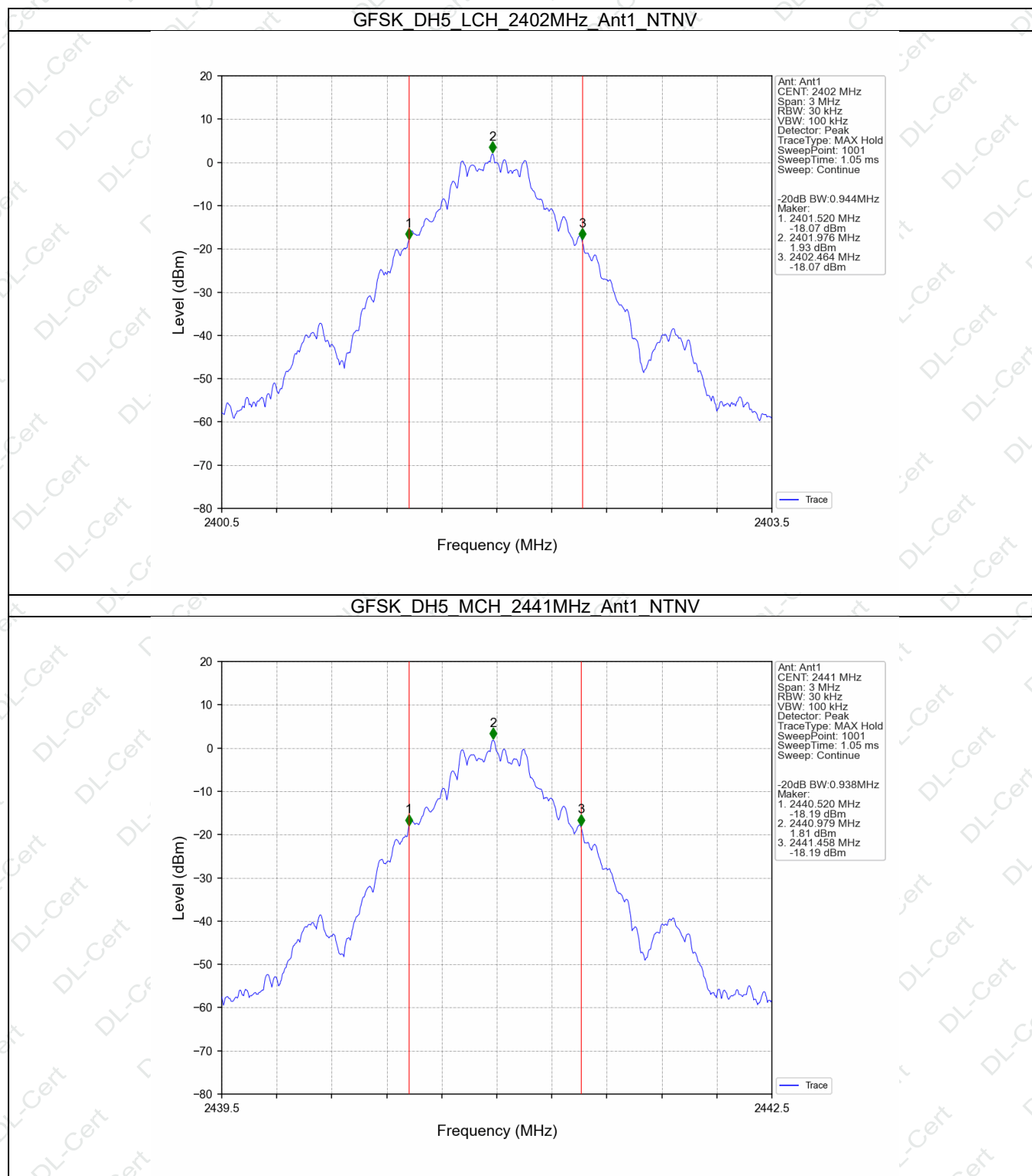




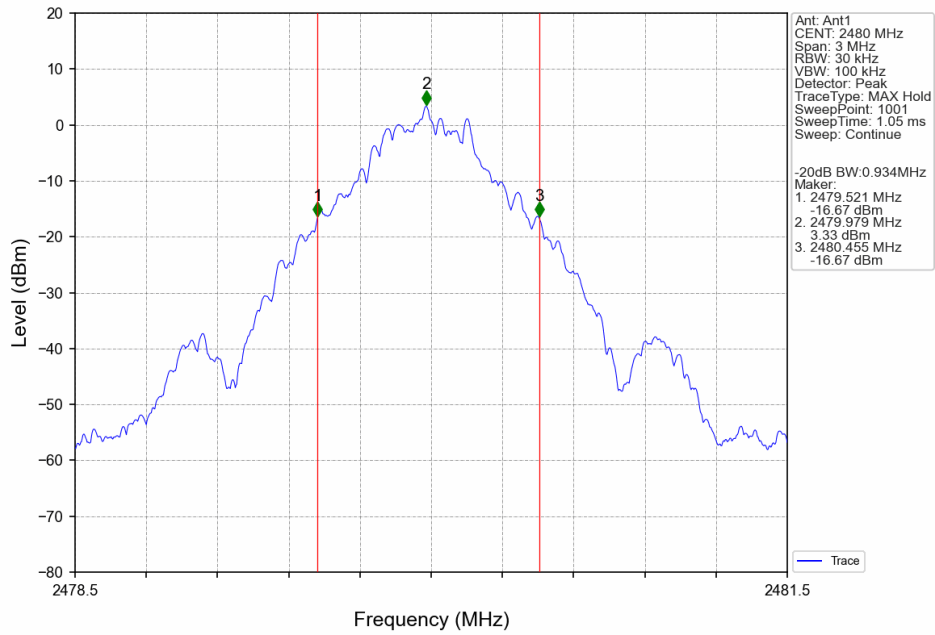
8DPSK 3DH5 HCH 2480MHz Ant1 NTV



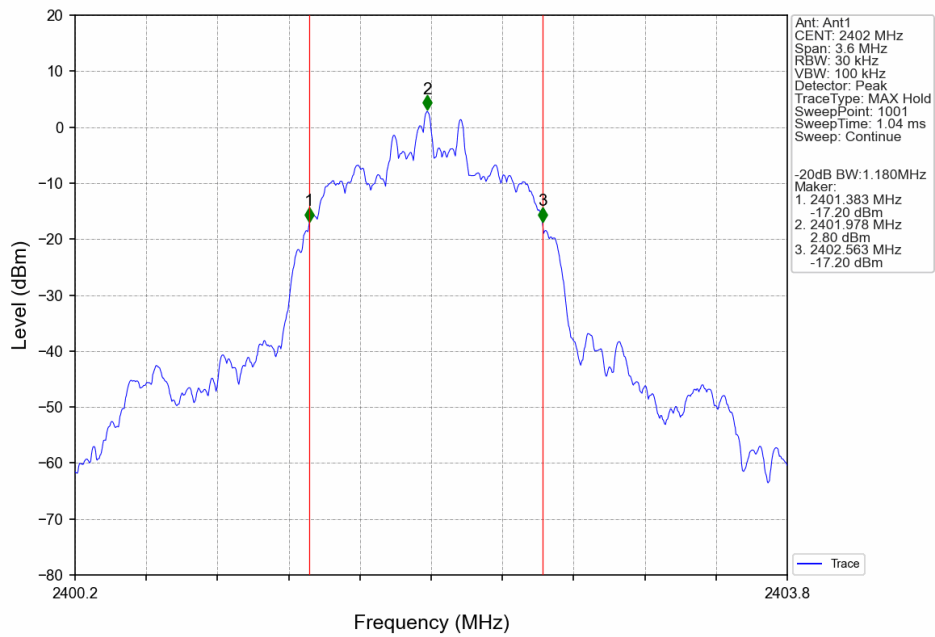
1.2.2 20dB BW

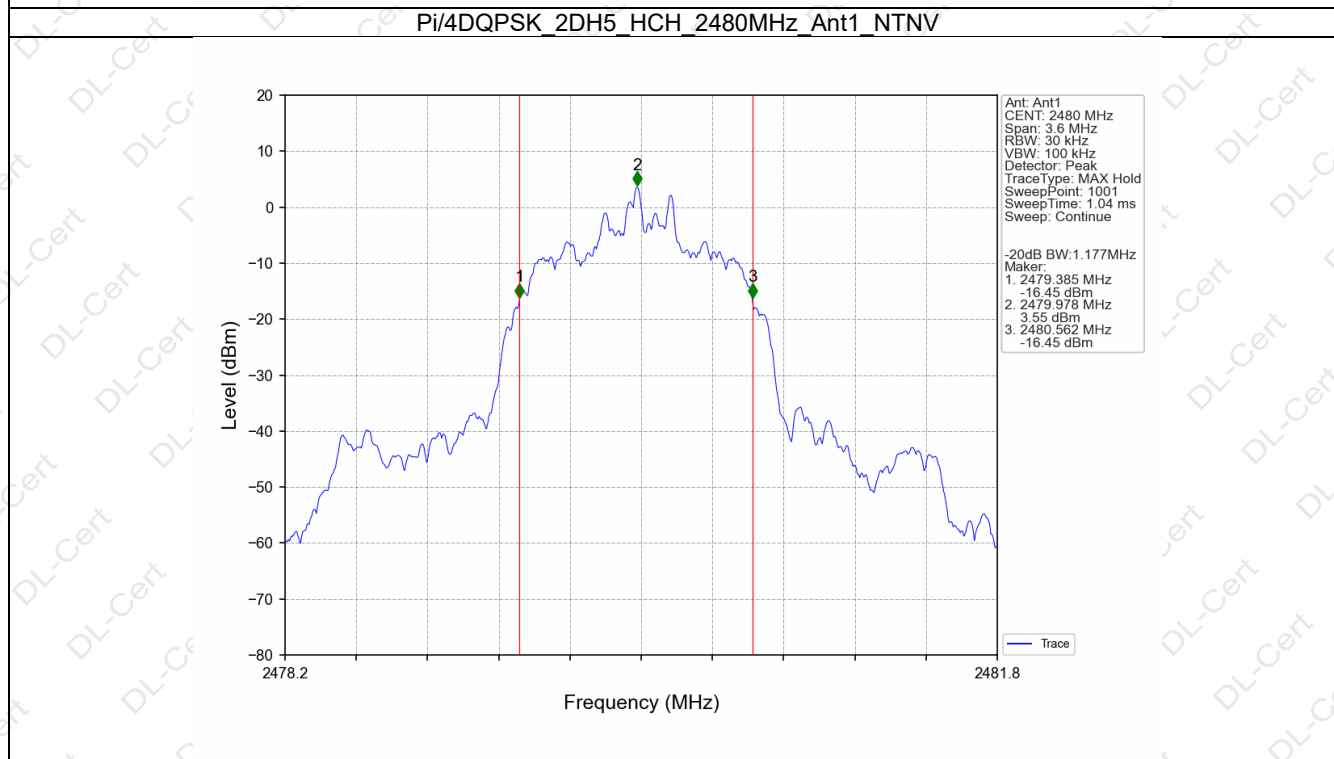
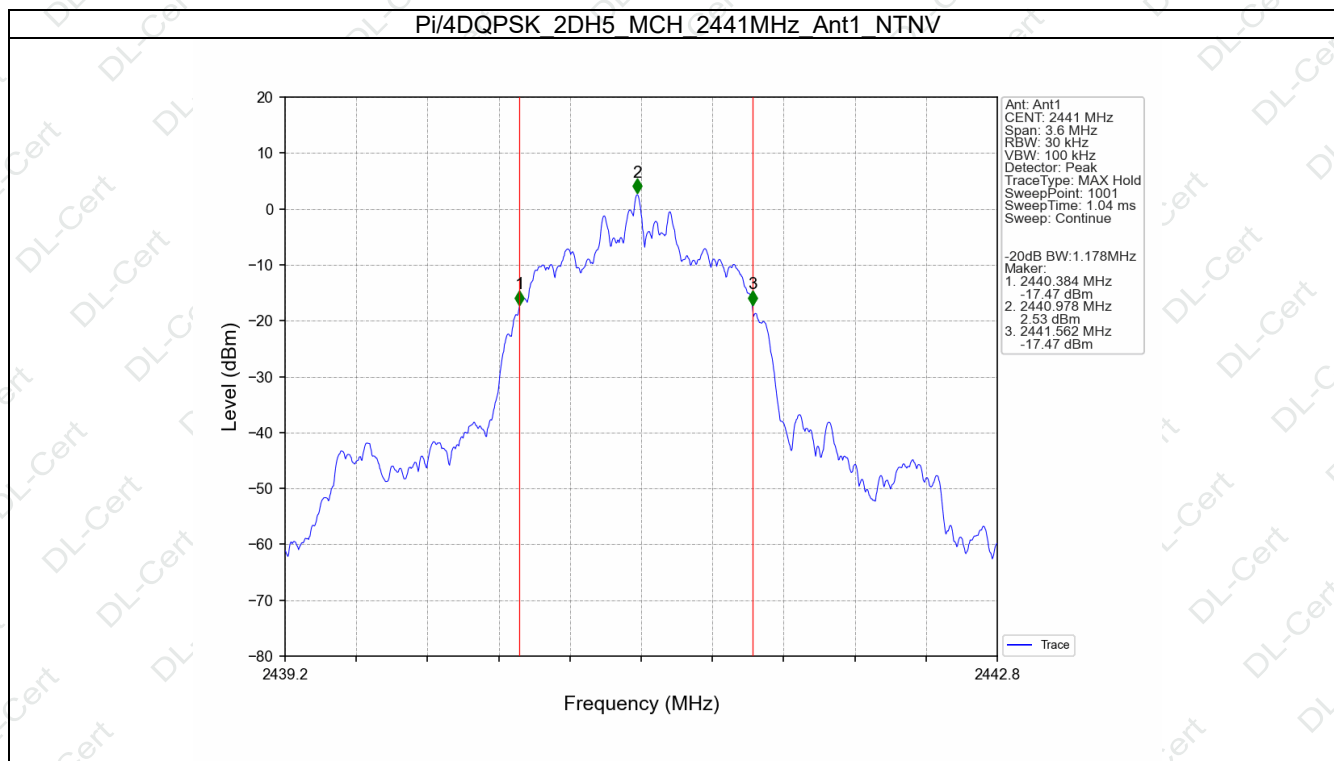


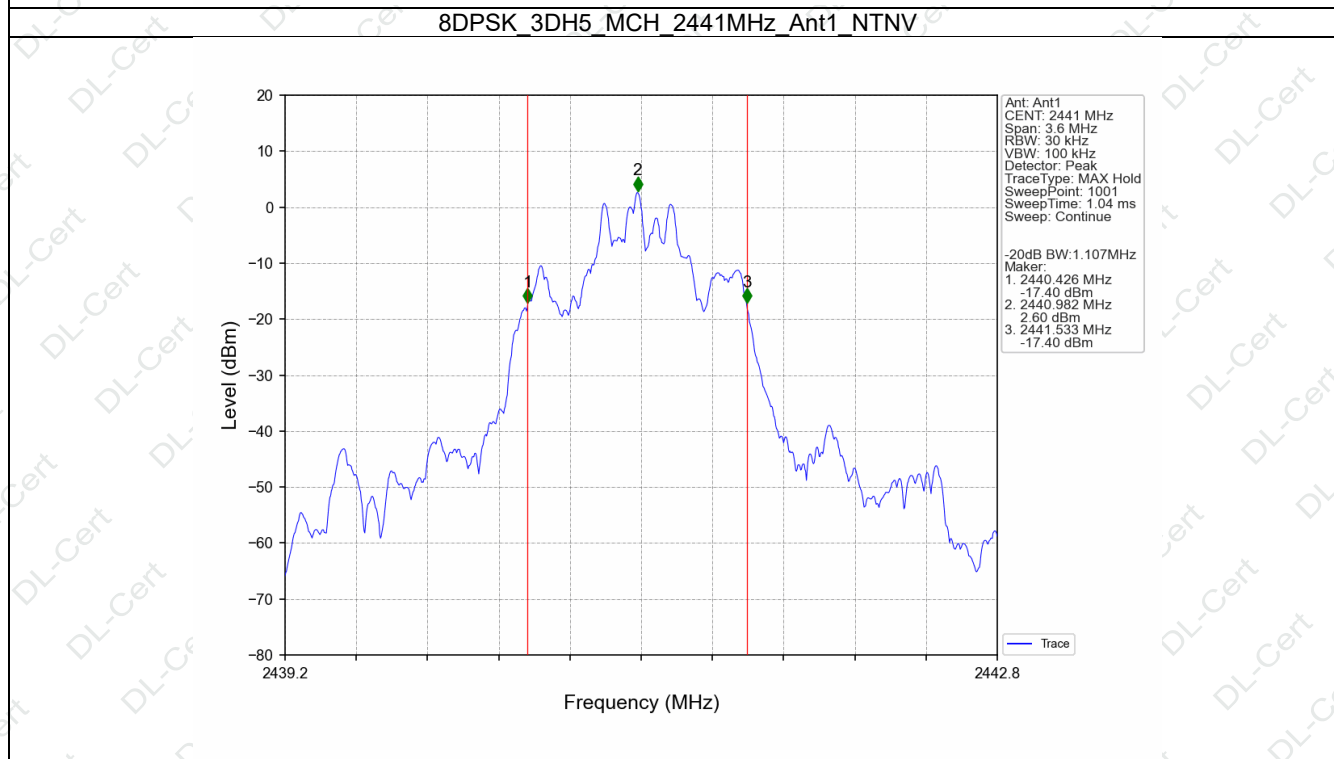
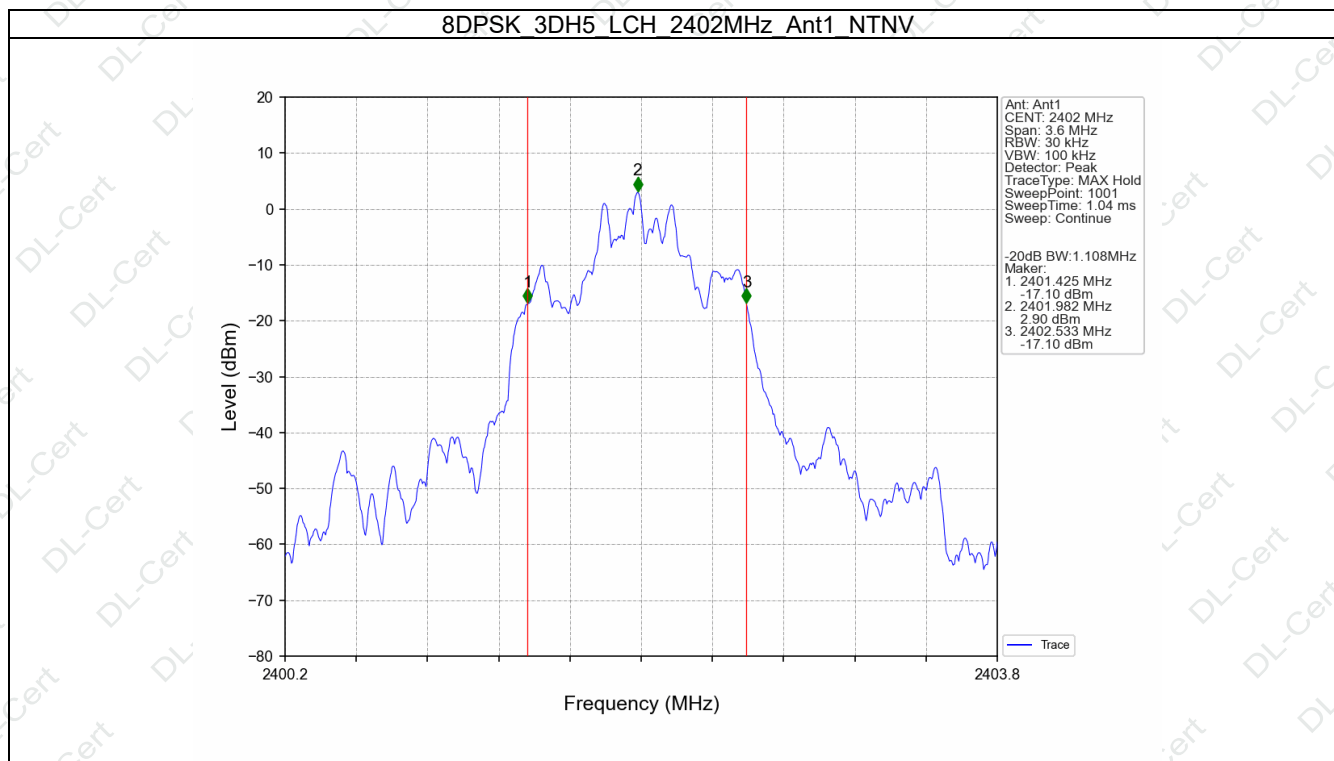
GFSK DH5 HCH 2480MHz Ant1 NTN

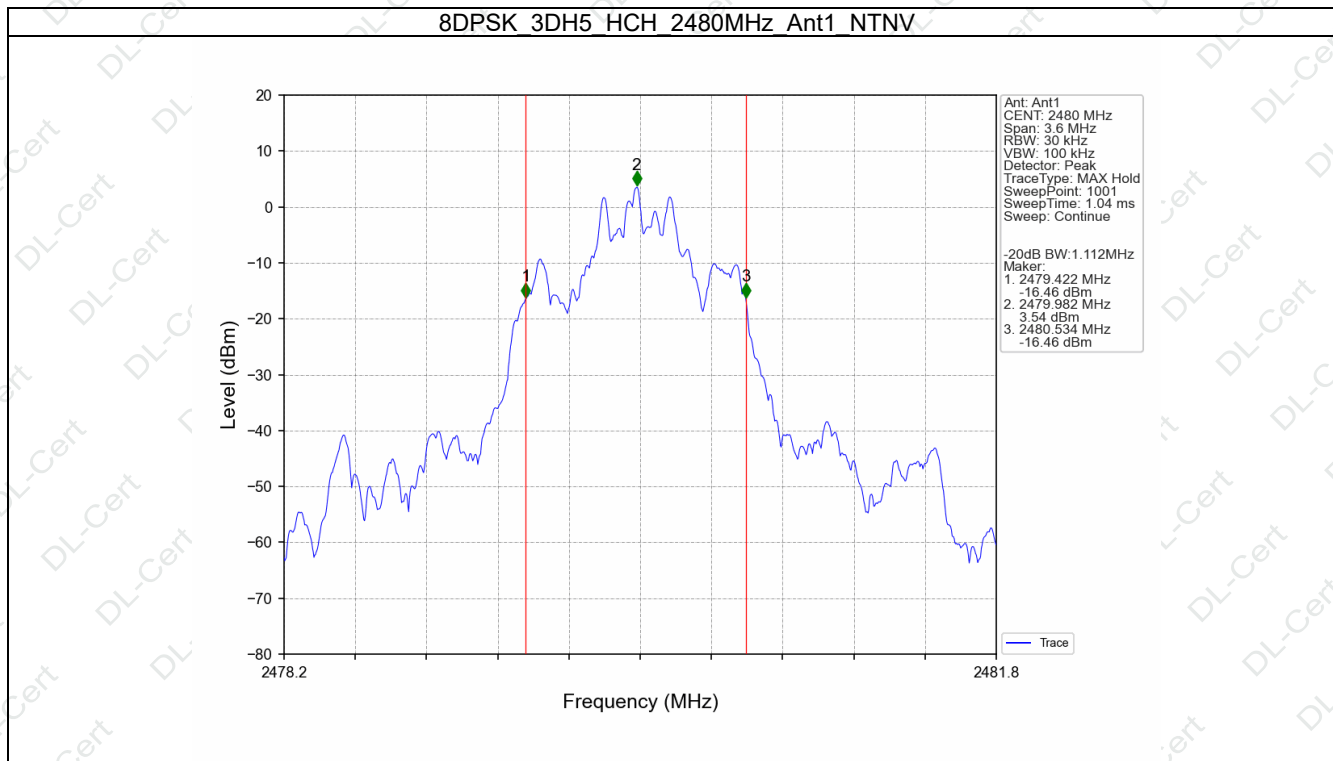


PI/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN









2. Maximum Conducted Output Power

2.1 Test Result

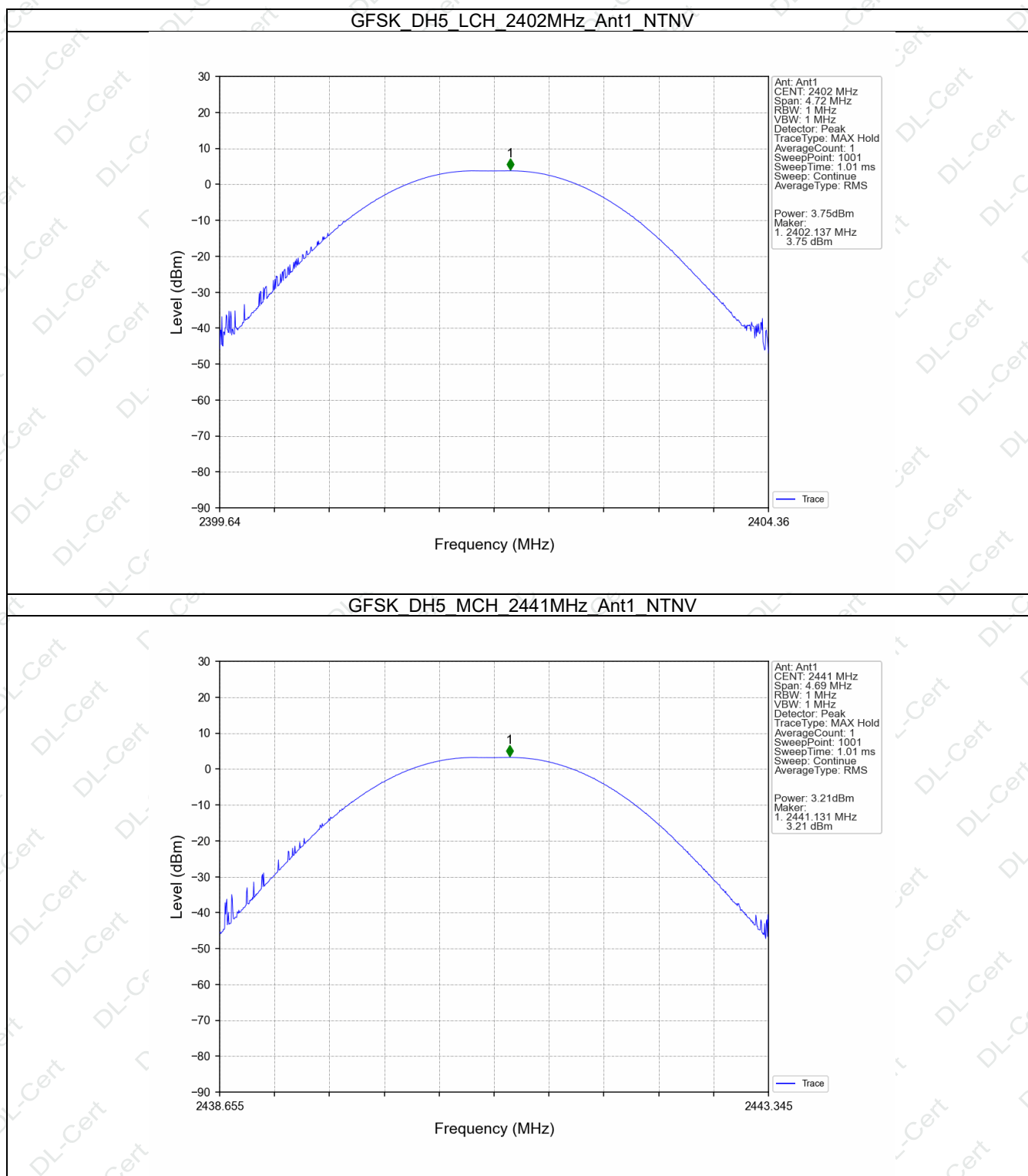
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	3.75	<=30	Pass
		2441	DH5	3.21	<=30	Pass
		2480	DH5	4.43	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.98	<=20.97	Pass
		2441	2DH5	3.64	<=20.97	Pass
		2480	2DH5	4.70	<=20.97	Pass
8DPSK	SISO	2402	3DH5	4.07	<=20.97	Pass
		2441	3DH5	3.78	<=20.97	Pass
		2480	3DH5	4.88	<=20.97	Pass

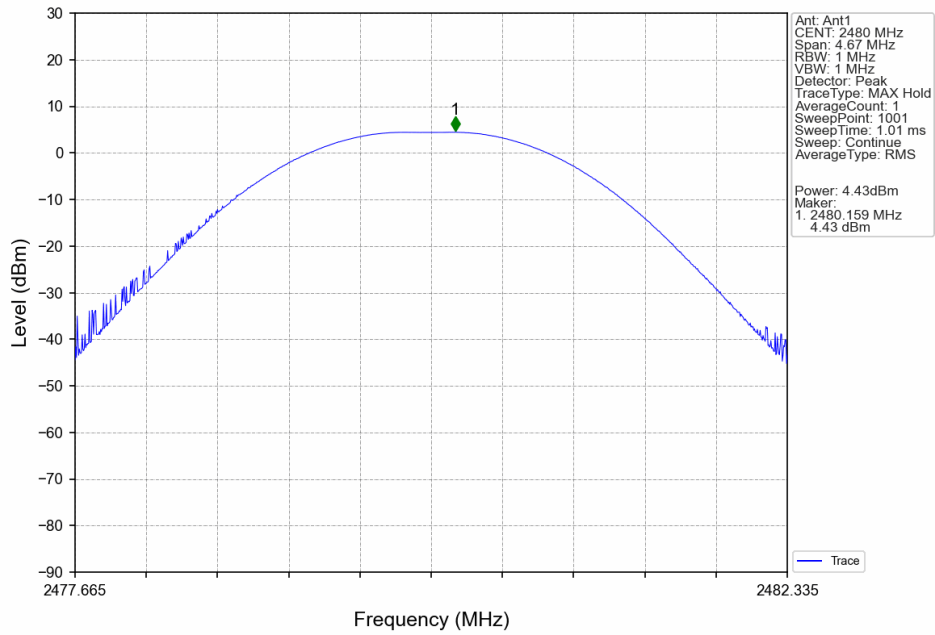
Note1: Antenna Gain: Ant1: 0.00dBi;

2.2 Test Graph

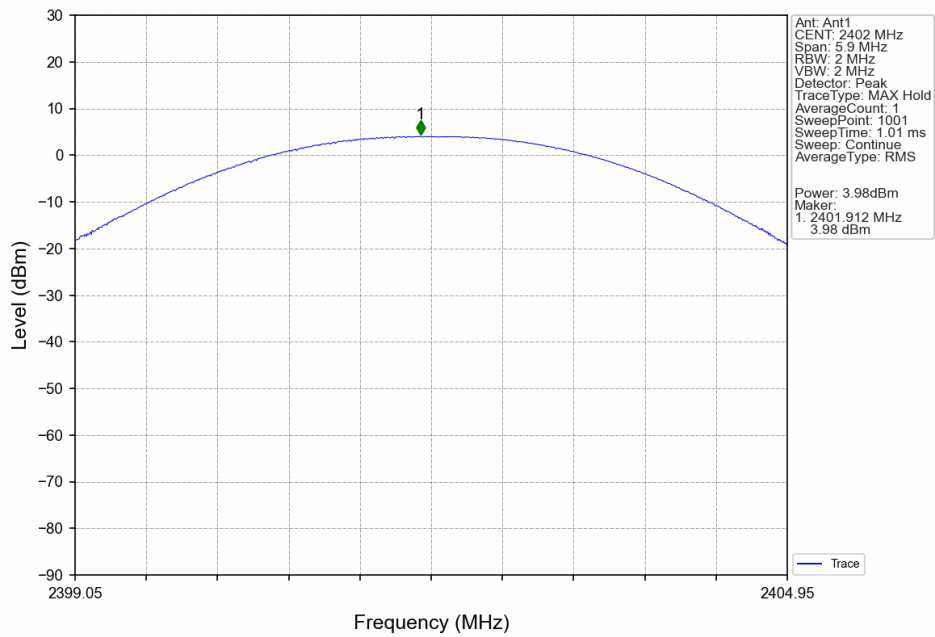
2.2.1 Power

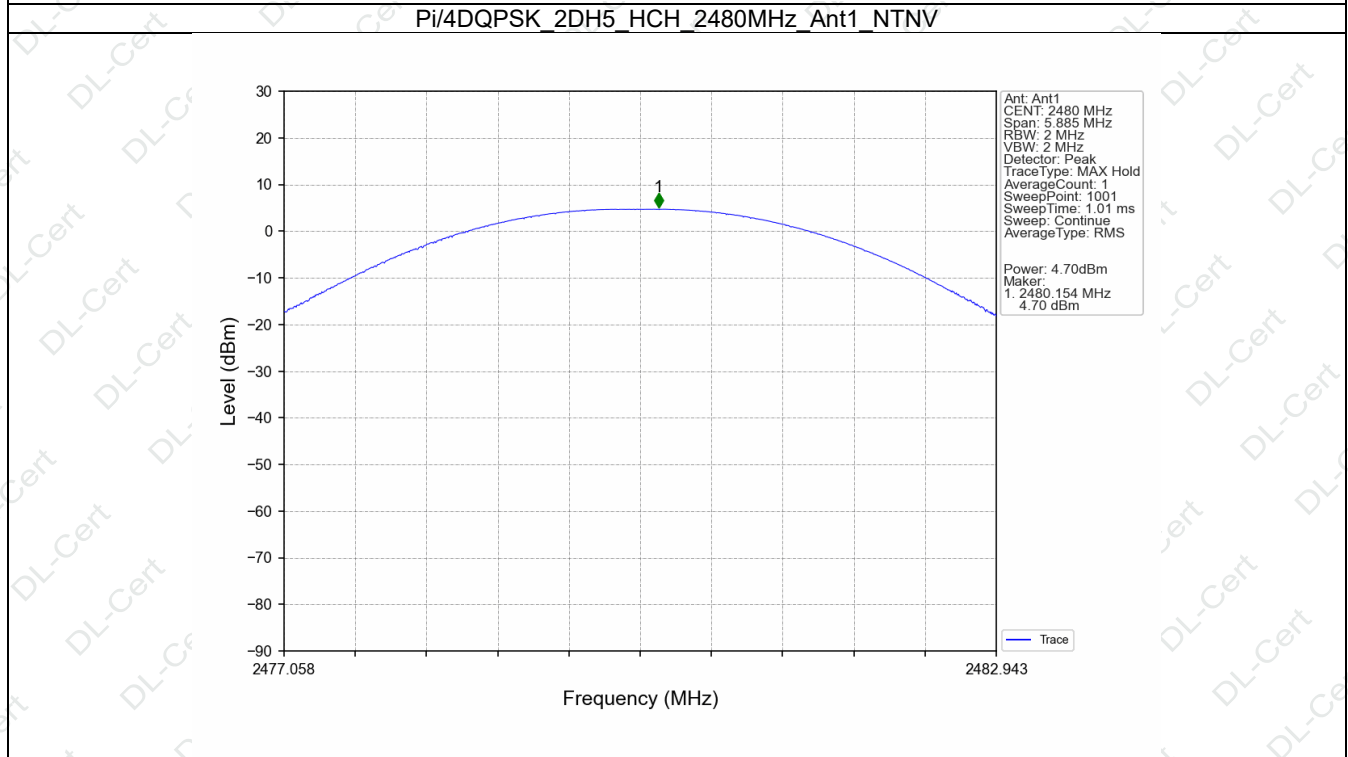
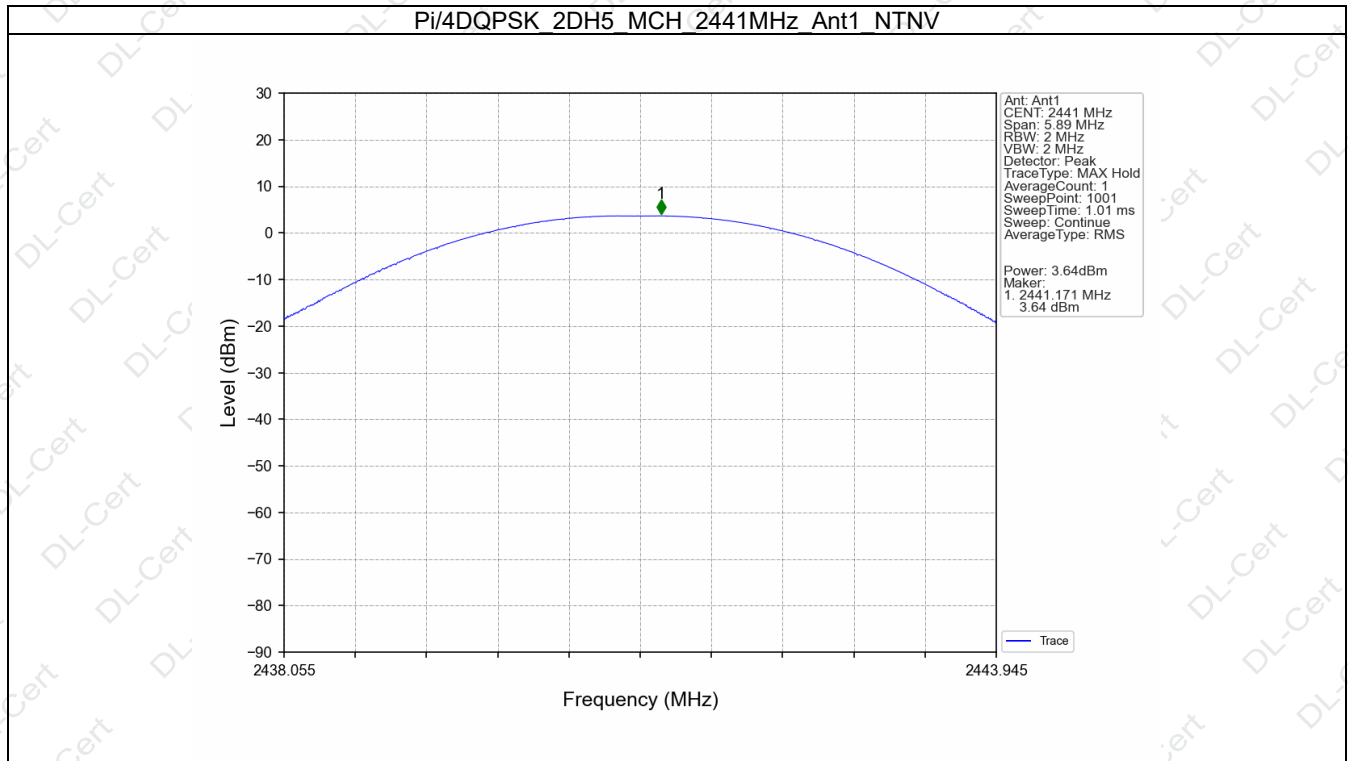


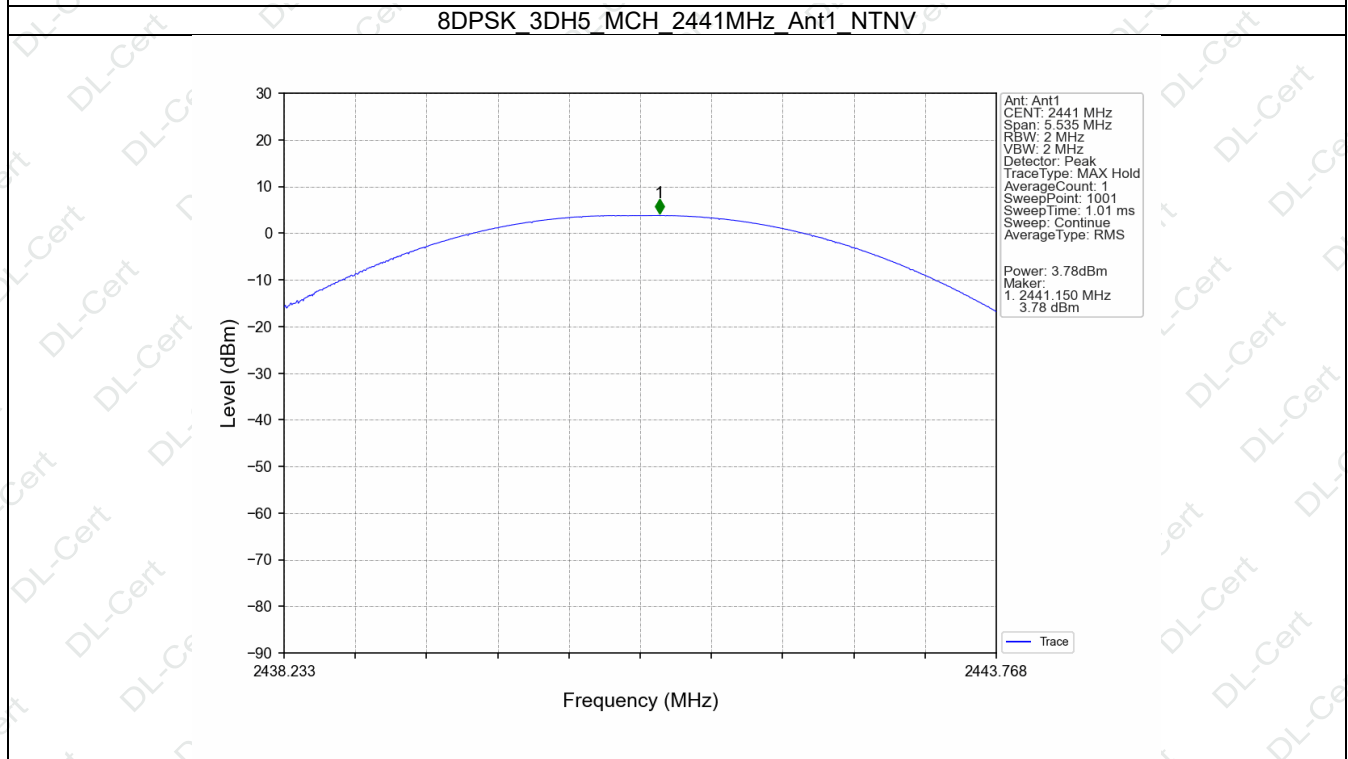
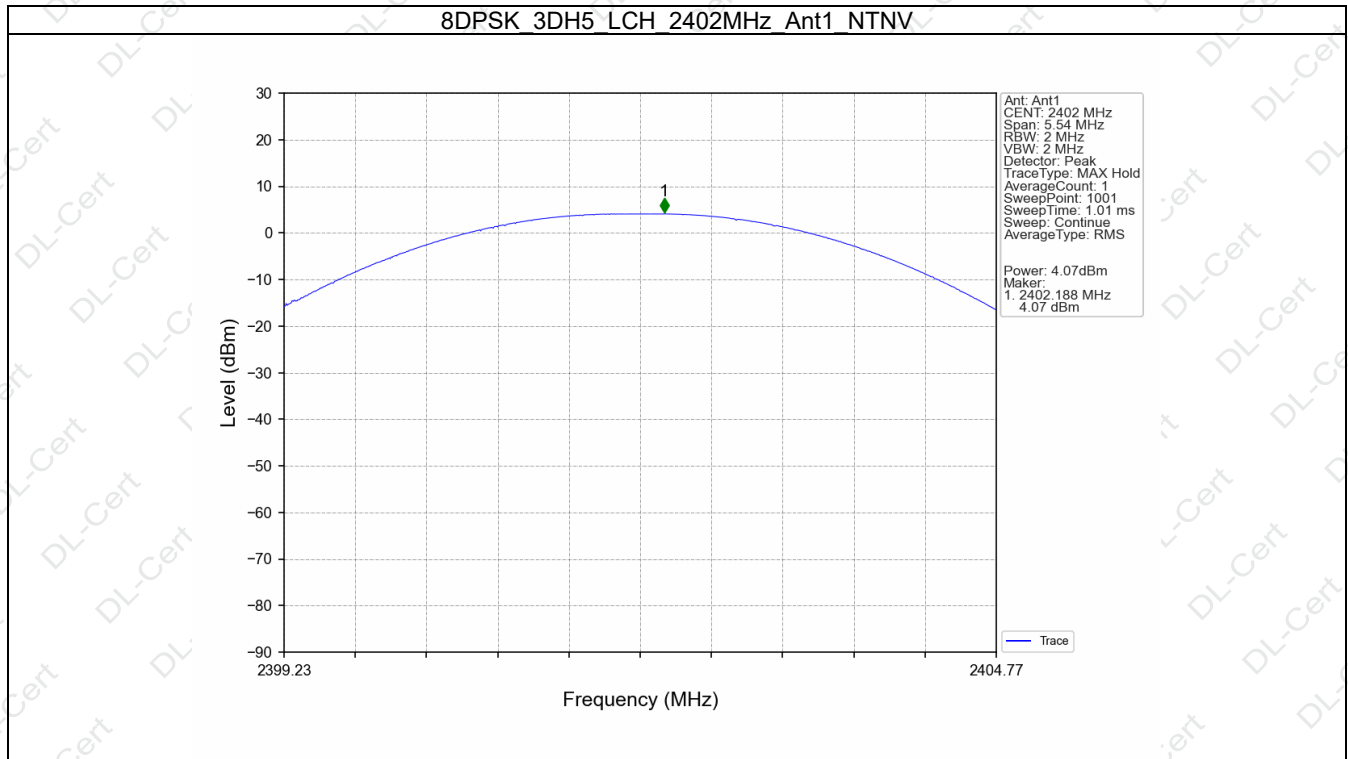
GFSK DH5 HCH 2480MHz Ant1 NTN

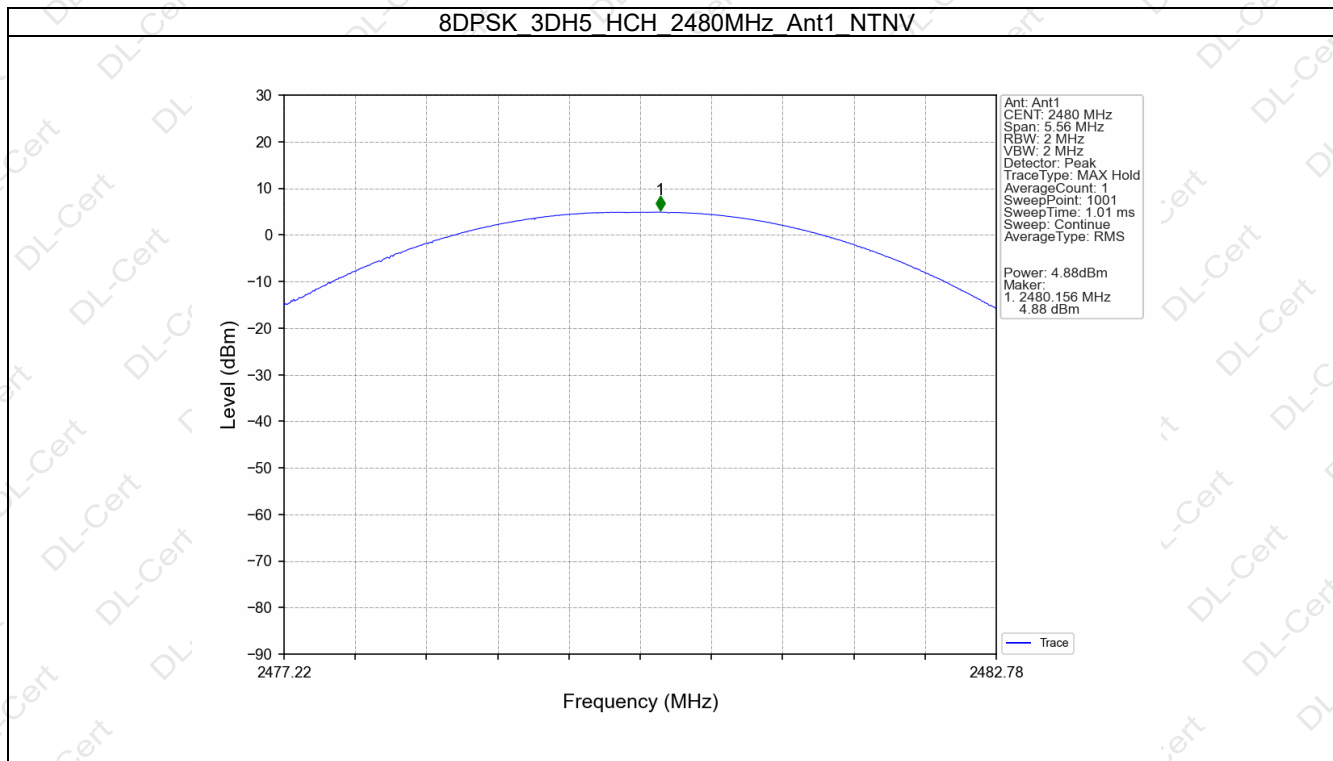


PI/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN









3. Carrier Frequency Separation

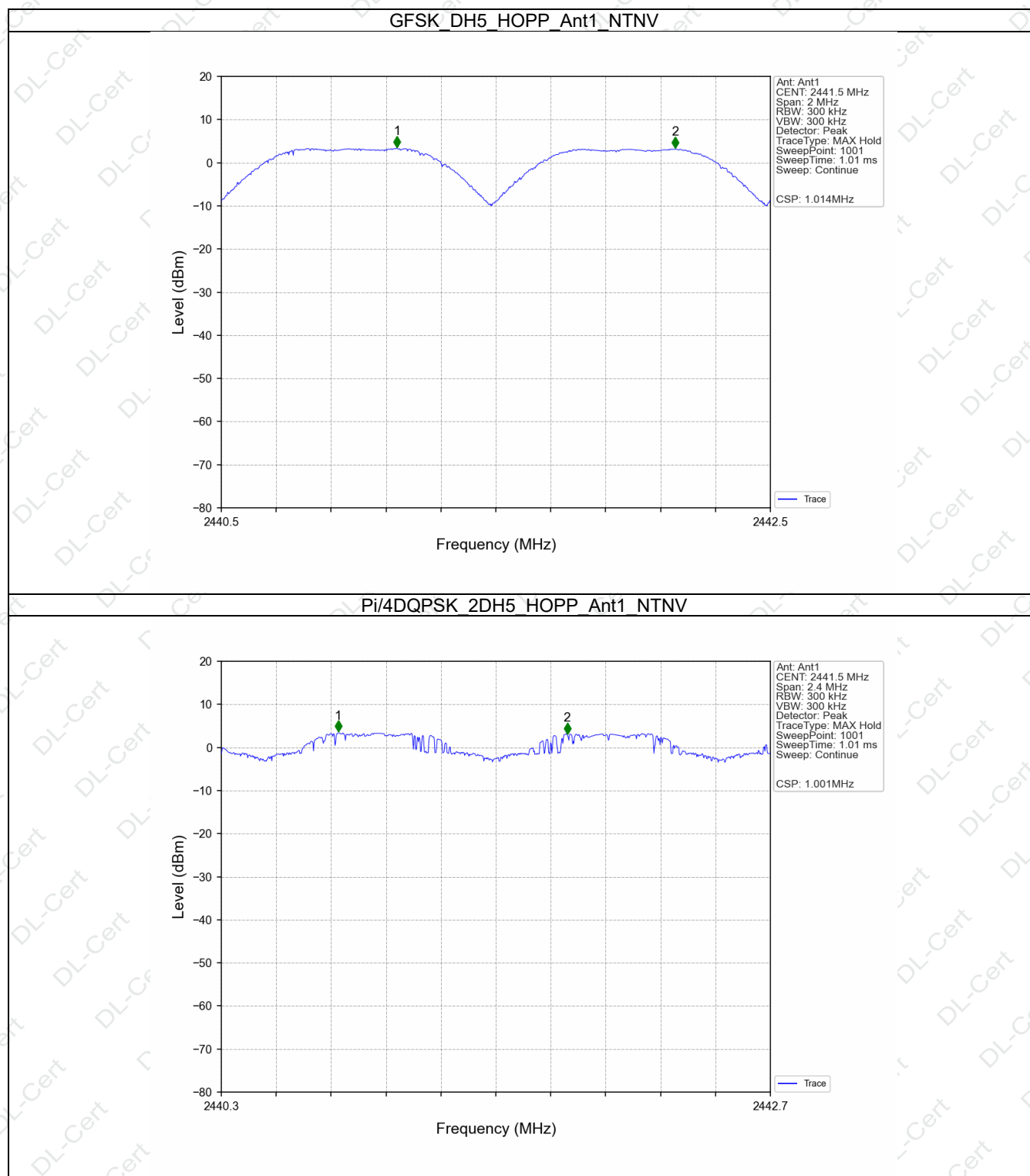
3.1 Test Result

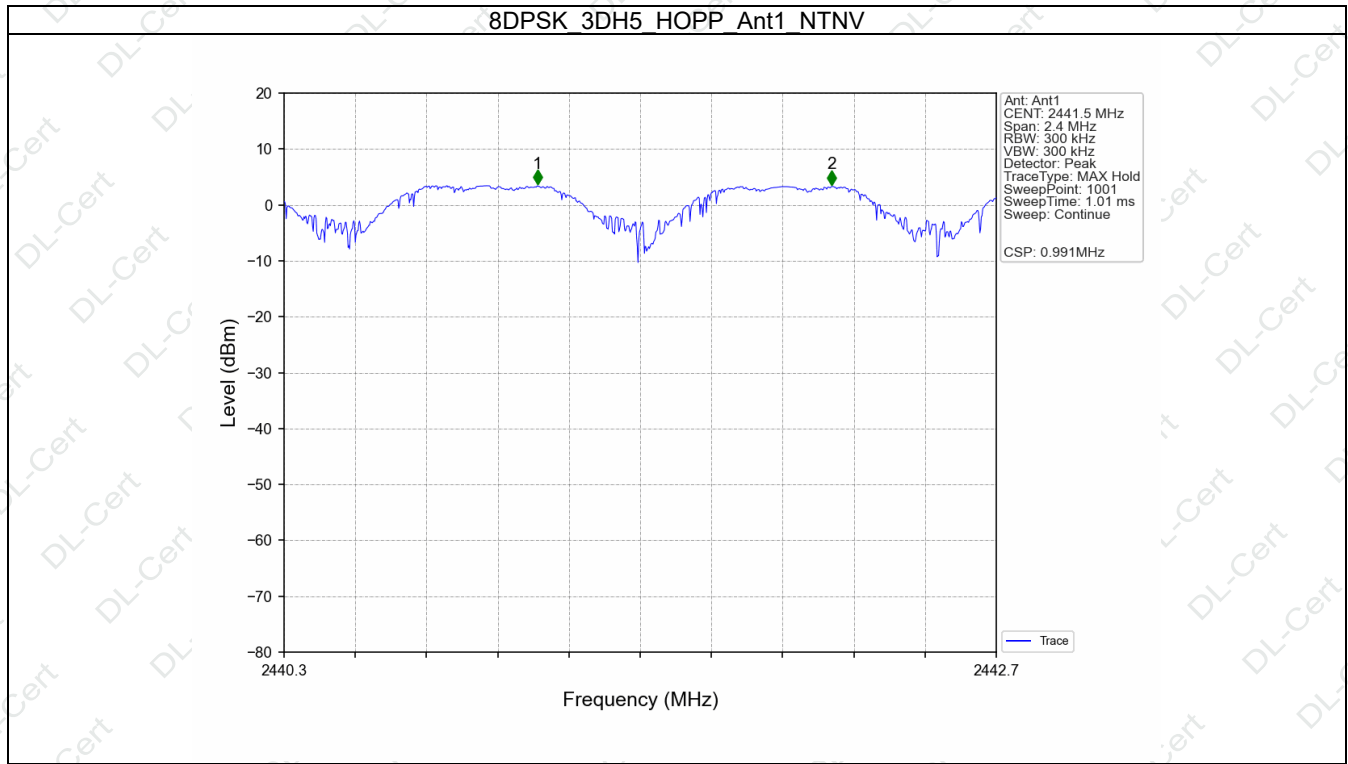
3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.014	0.944	≥ 0.944	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.180	≥ 0.787	Pass
8DPSK	SISO	HOPP	3DH5	0.991	1.112	≥ 0.741	Pass

3.2 Test Graph

3.2.1 Ant1





4. Number of Hopping Frequencies

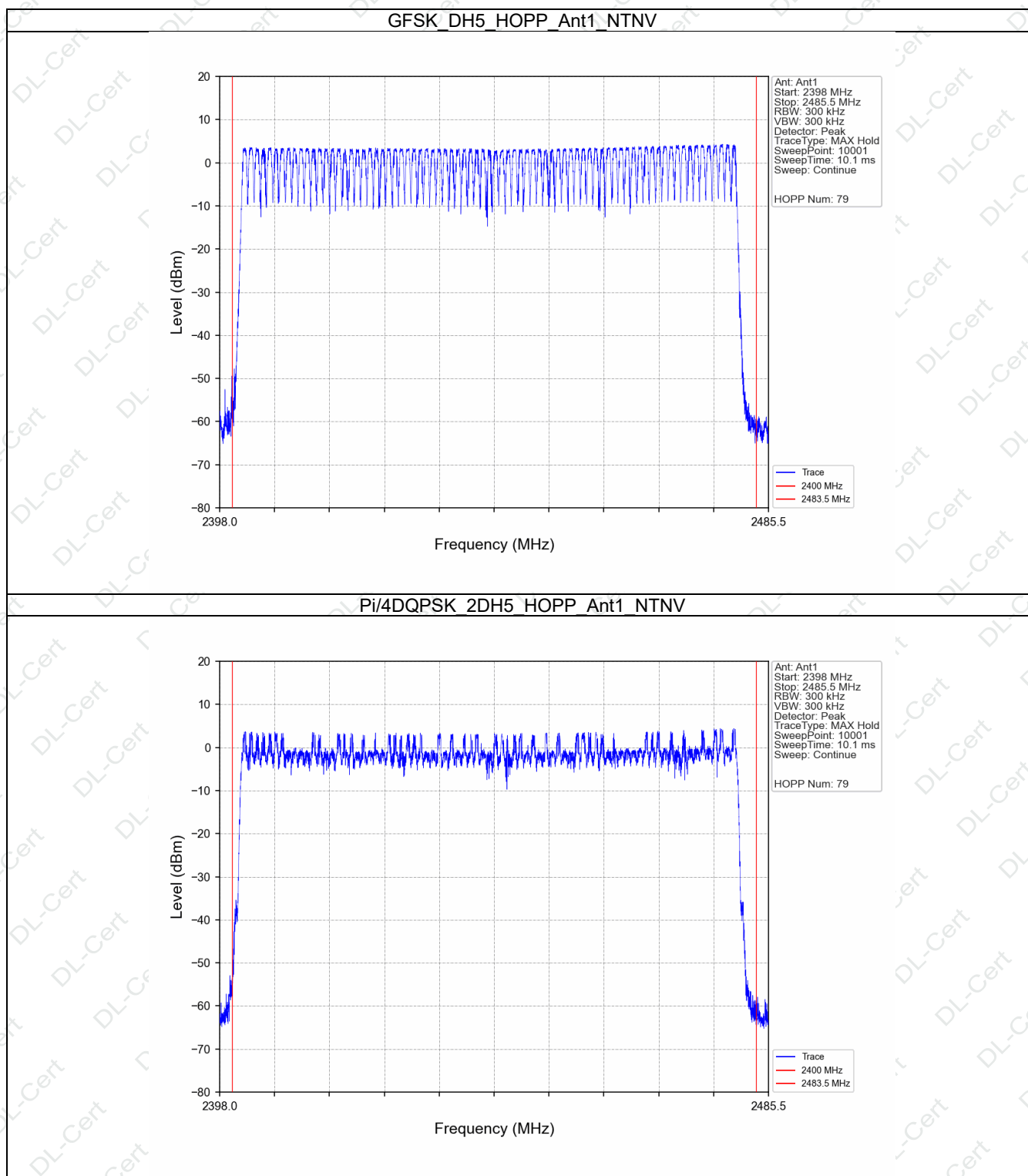
4.1 Test Result

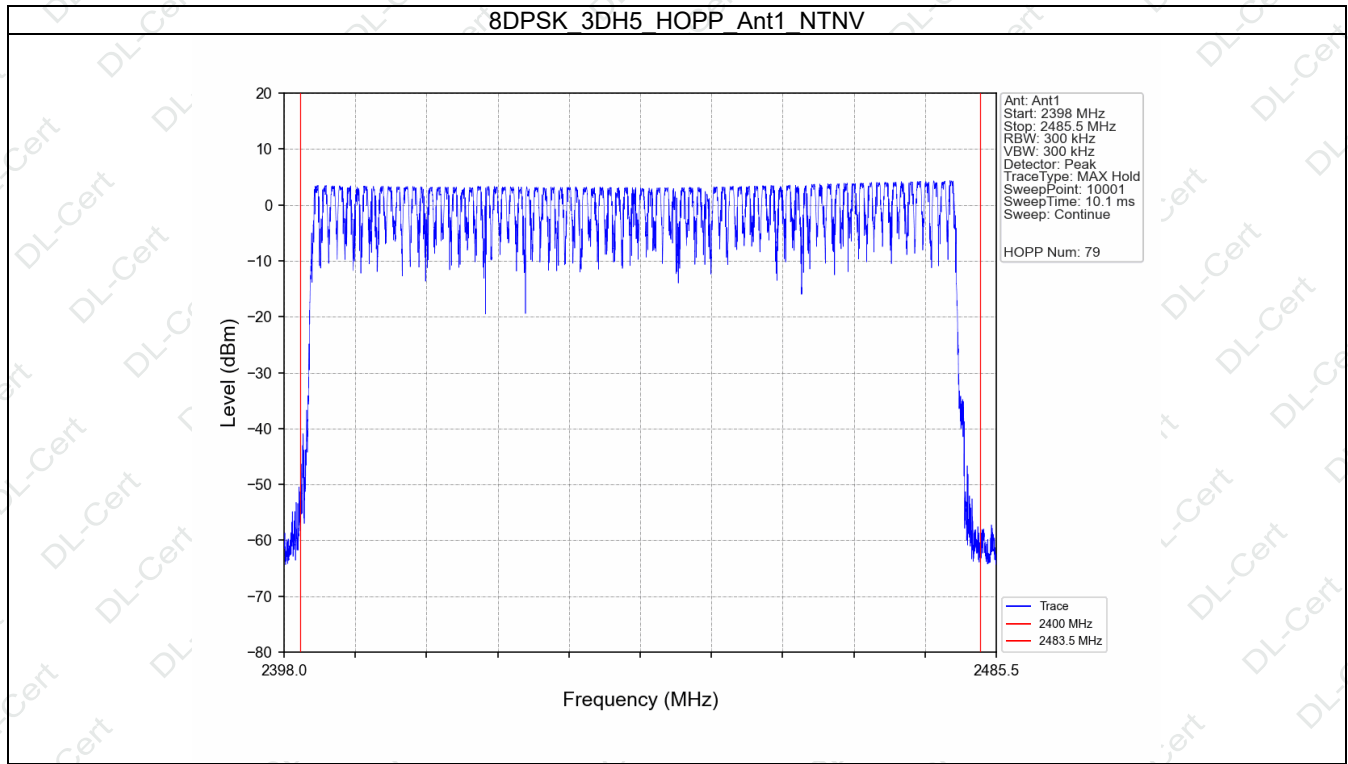
4.1.1 HoppNum

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

4.2 Test Graph

4.2.1 HoppNum





5. Time of Occupancy (Dwell Time)

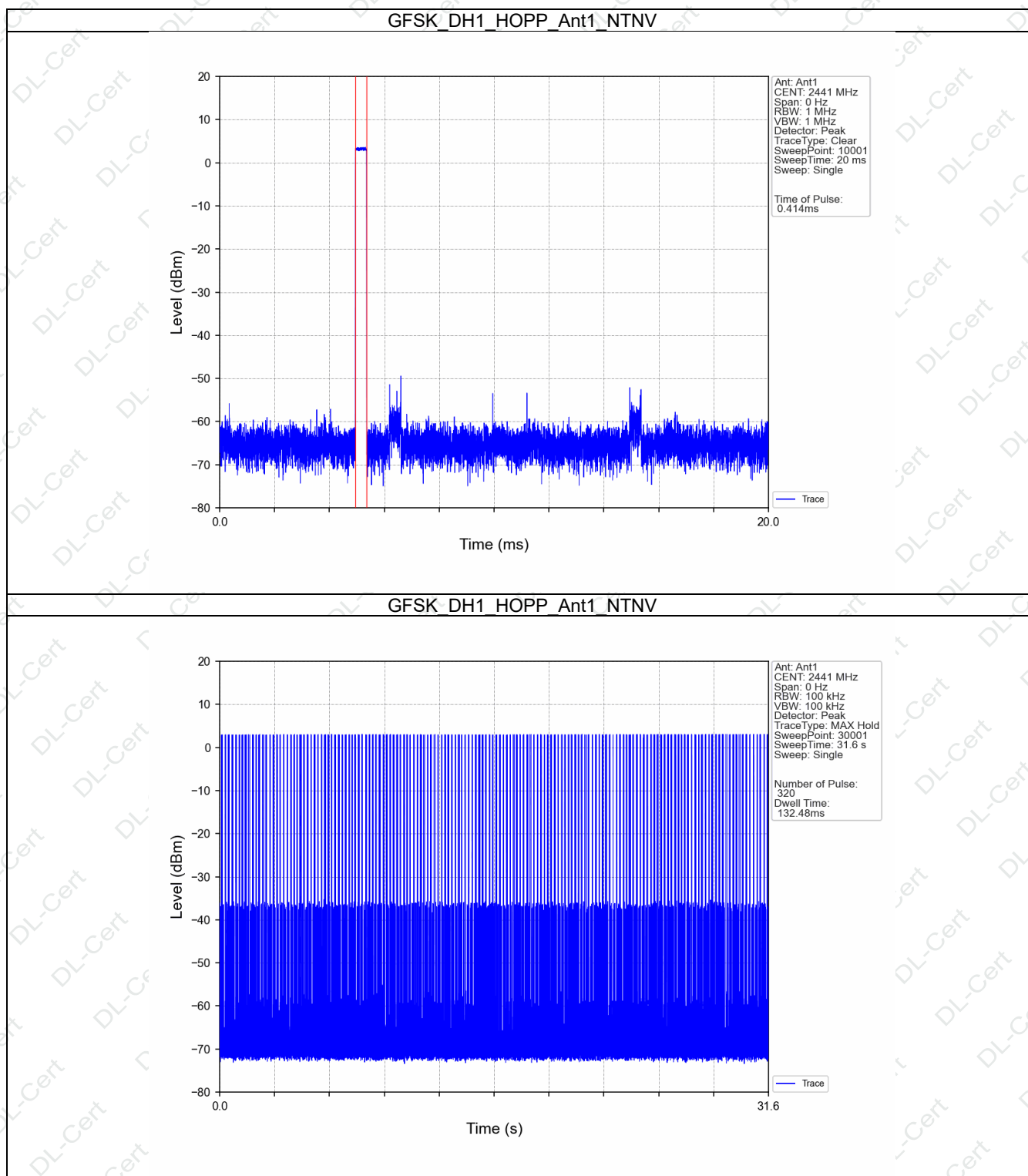
5.1 Test Result

5.1.1 Ant1

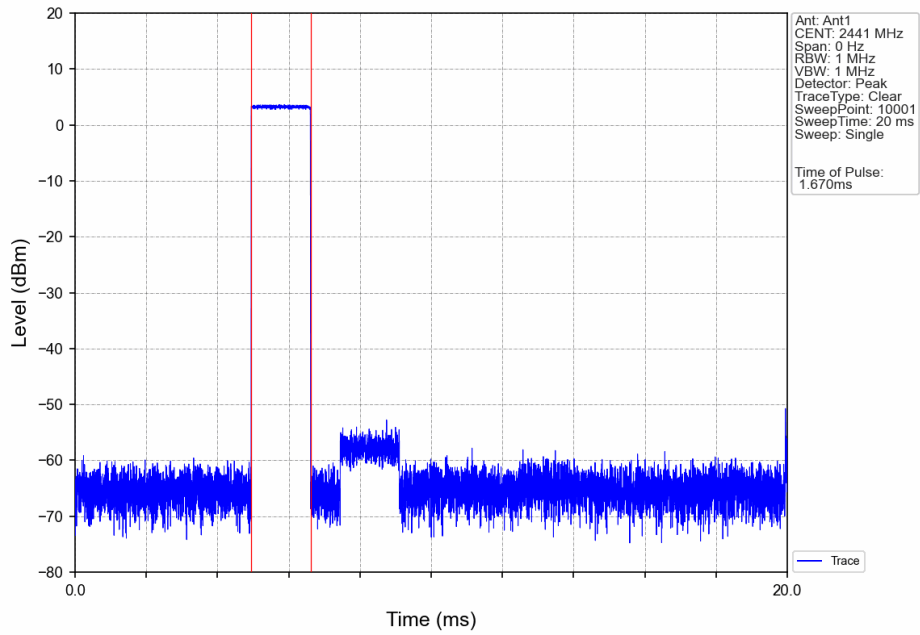
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.414	31.600	320	132.480	<=400	Pass
			DH3	1.670	31.600	155	258.850	<=400	Pass
			DH5	2.916	31.600	110	320.760	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.422	31.600	320	135.040	<=400	Pass
			2DH3	1.674	31.600	167	279.558	<=400	Pass
			2DH5	2.926	31.600	101	295.526	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.424	31.600	308	130.592	<=400	Pass
			3DH3	1.676	31.600	151	253.076	<=400	Pass
			3DH5	0.200	31.600	105	21.000	<=400	Pass

5.2 Test Graph

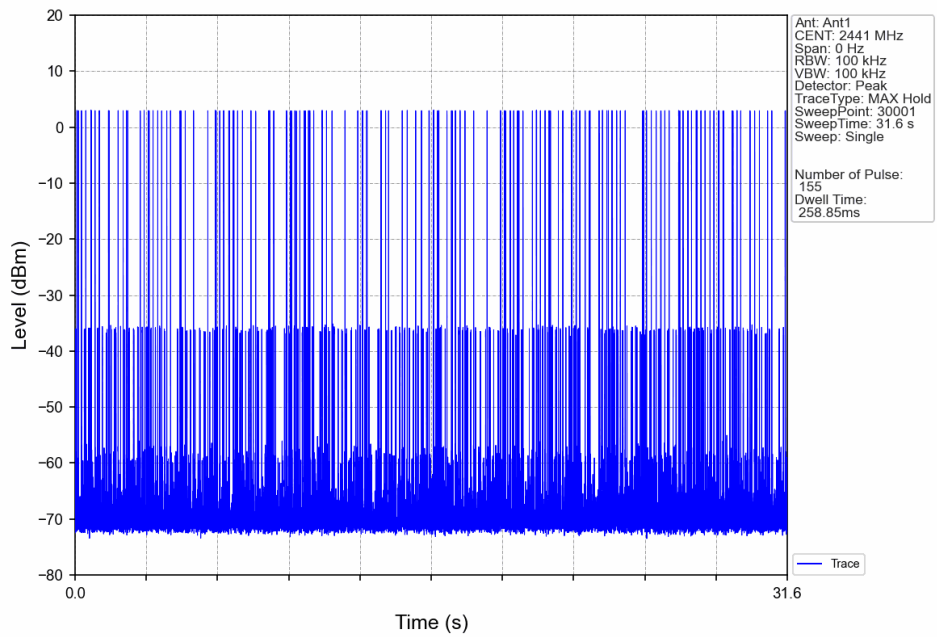
5.2.1 Ant1



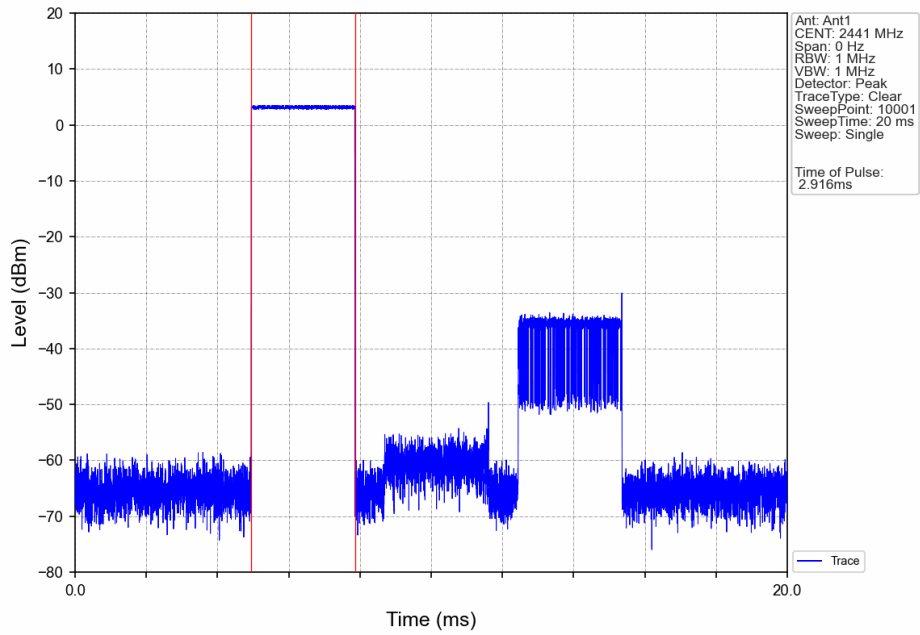
GFSK DH3 HOPP Ant1 NTN



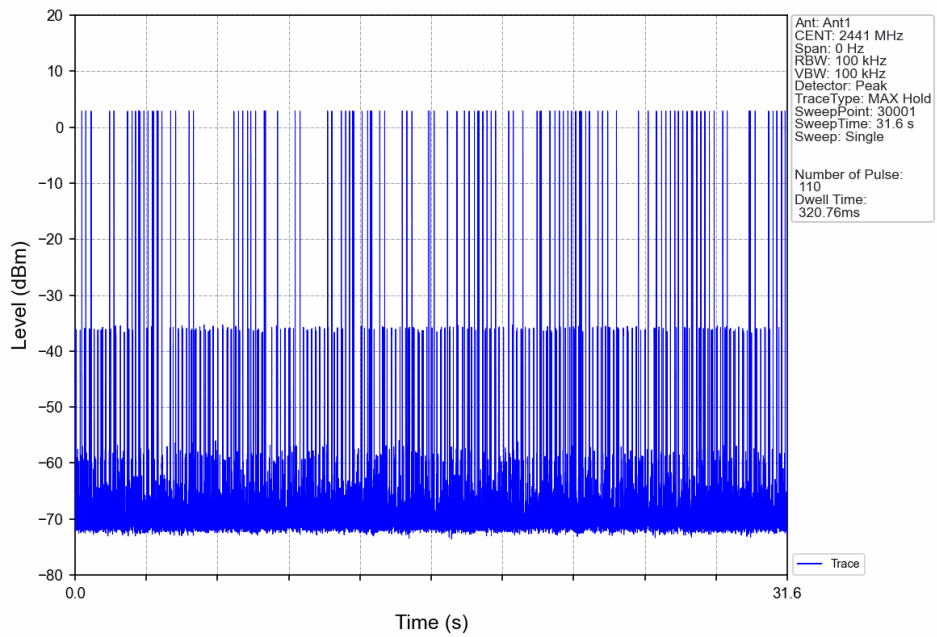
GFSK_DH3_HOPP_Ant1_NTNV

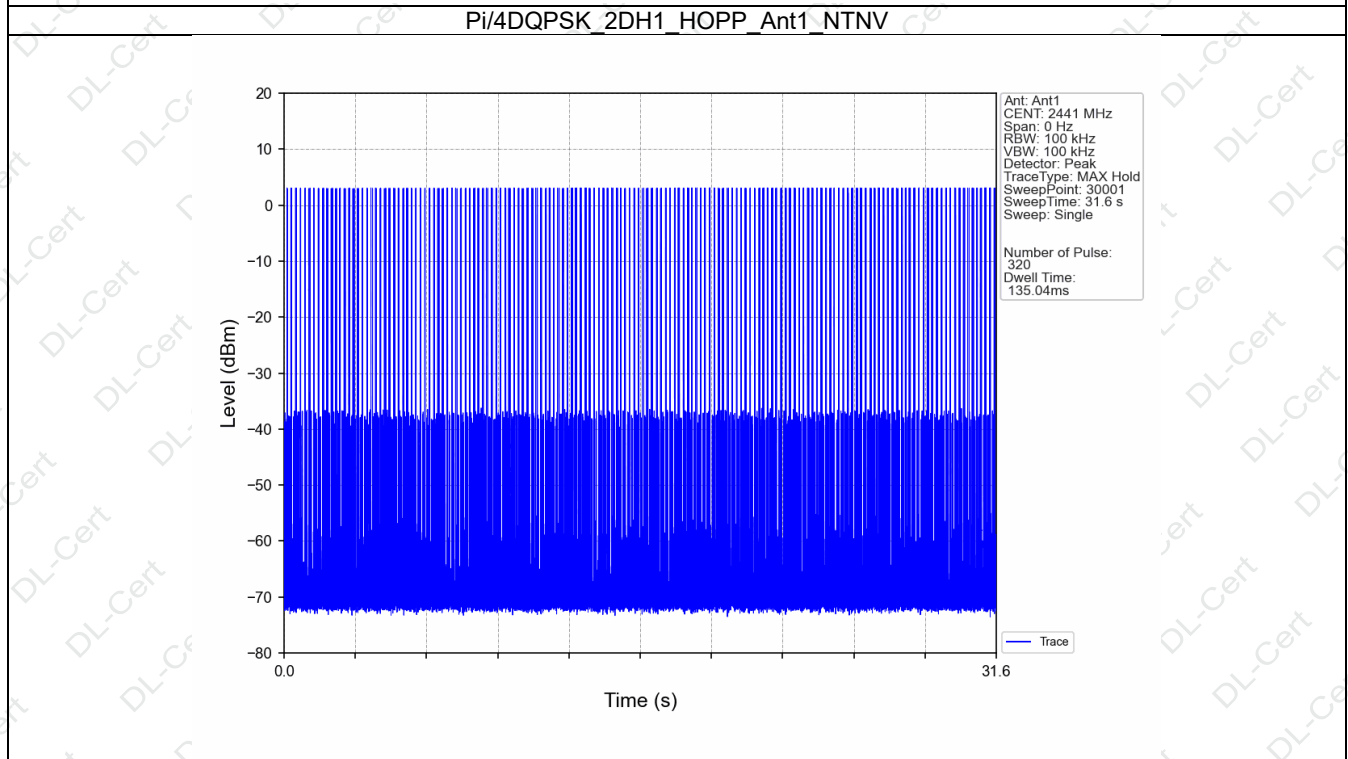
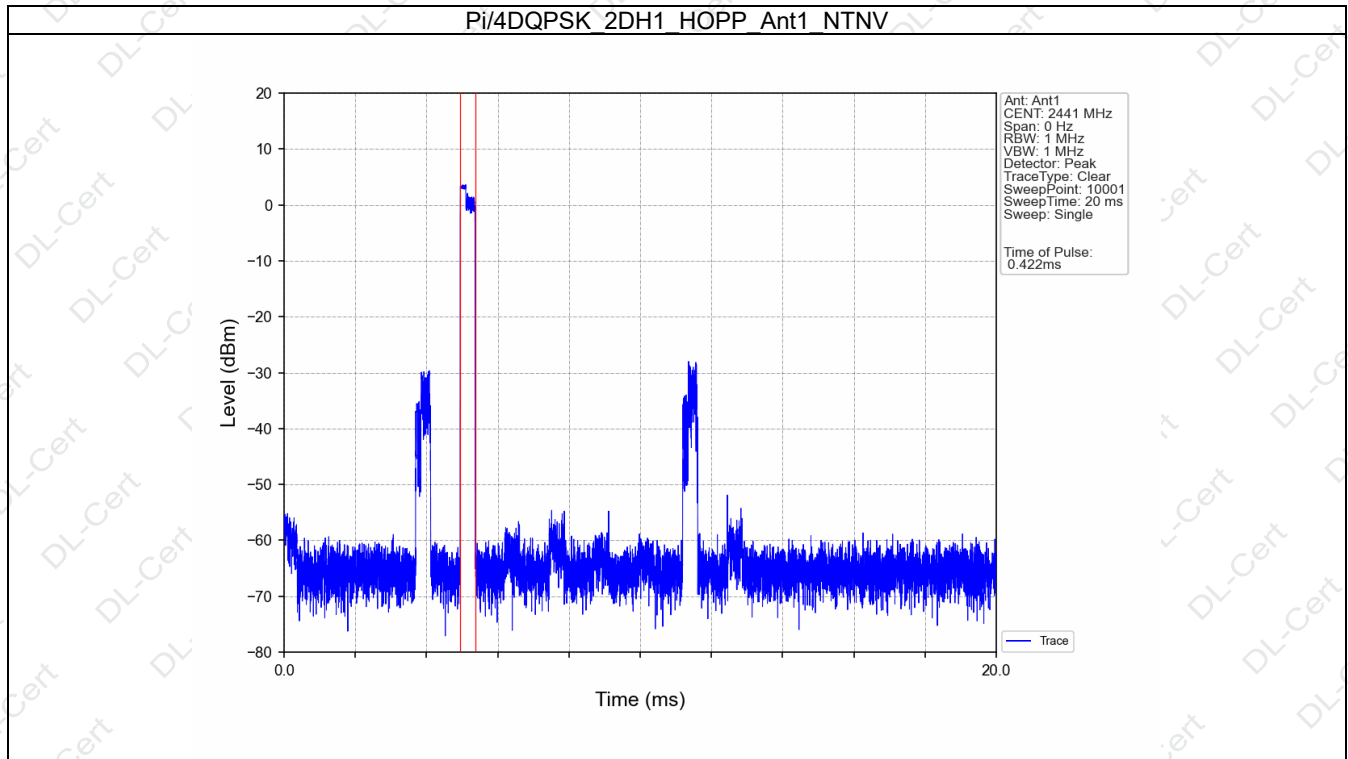


GFSK DH5 HOPP Ant1 NTN

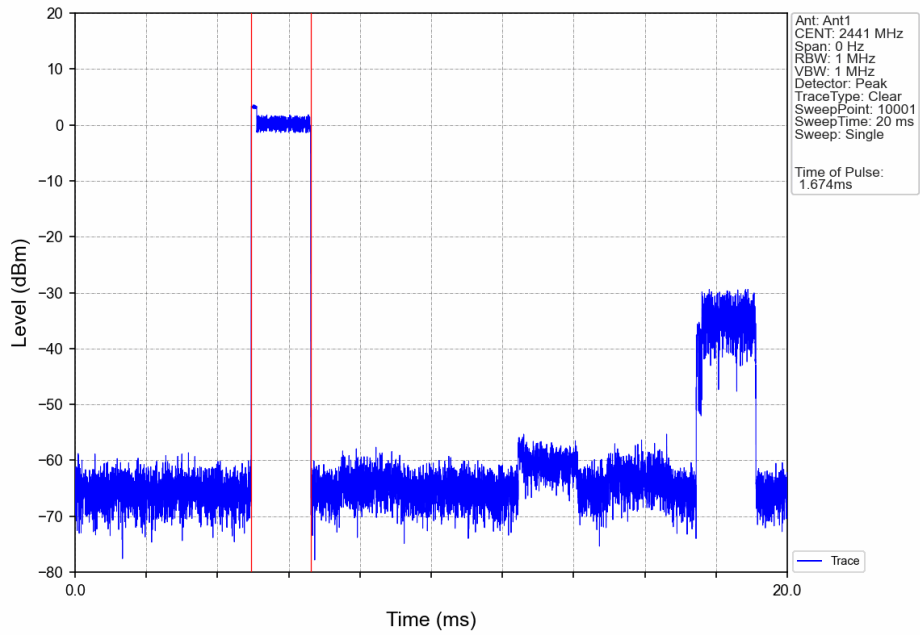


GFSK_DH5_HOPP_Ant1_NTNV

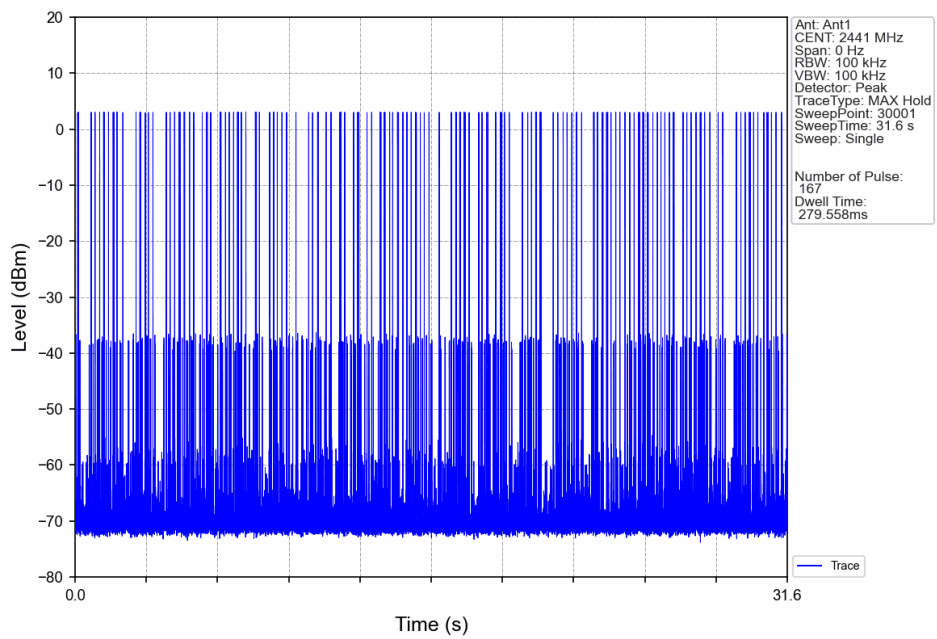


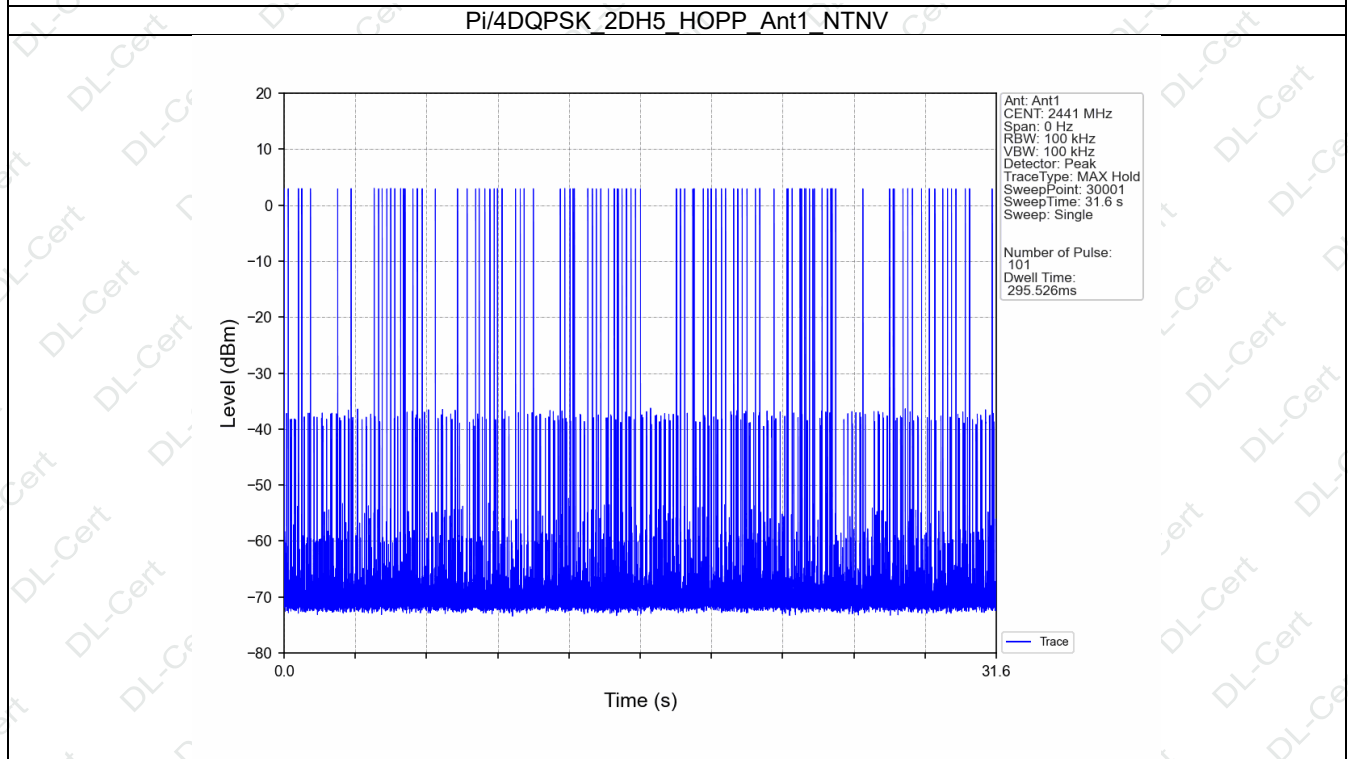
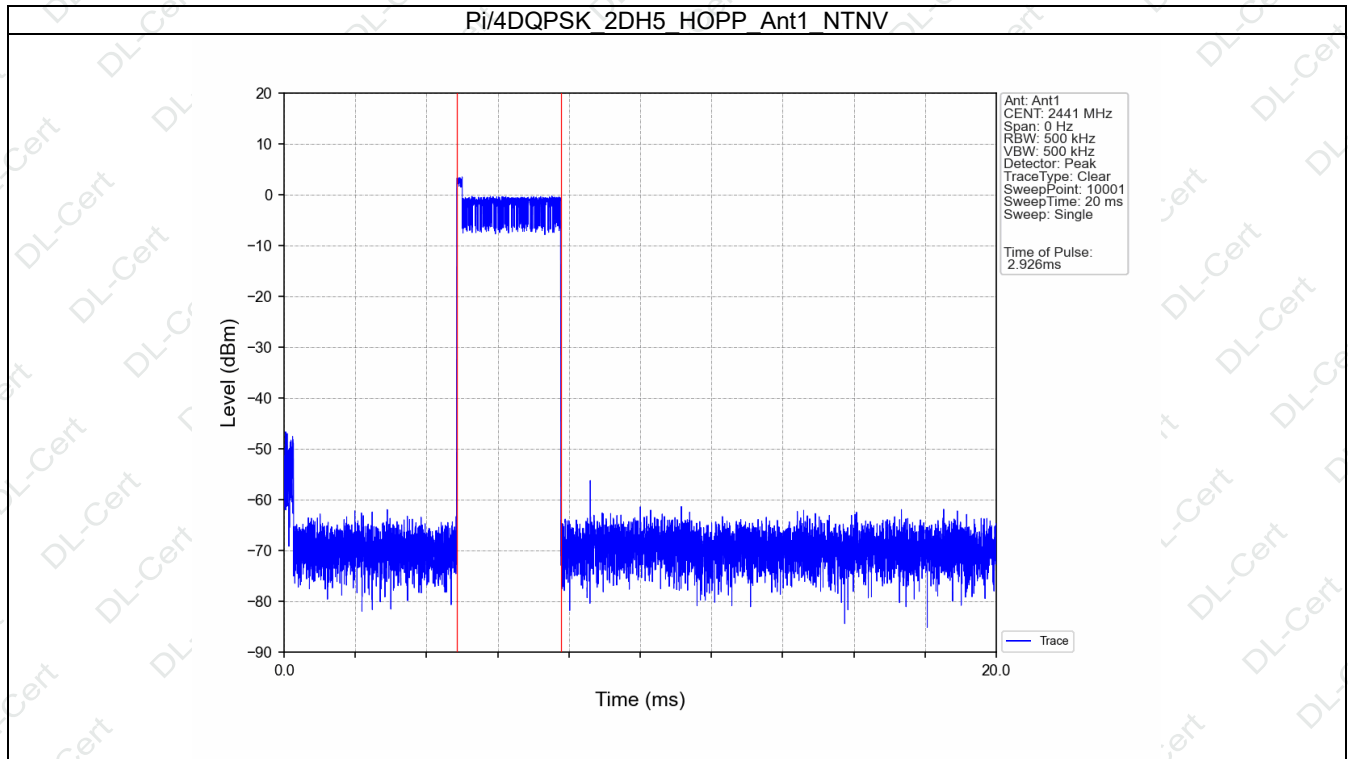


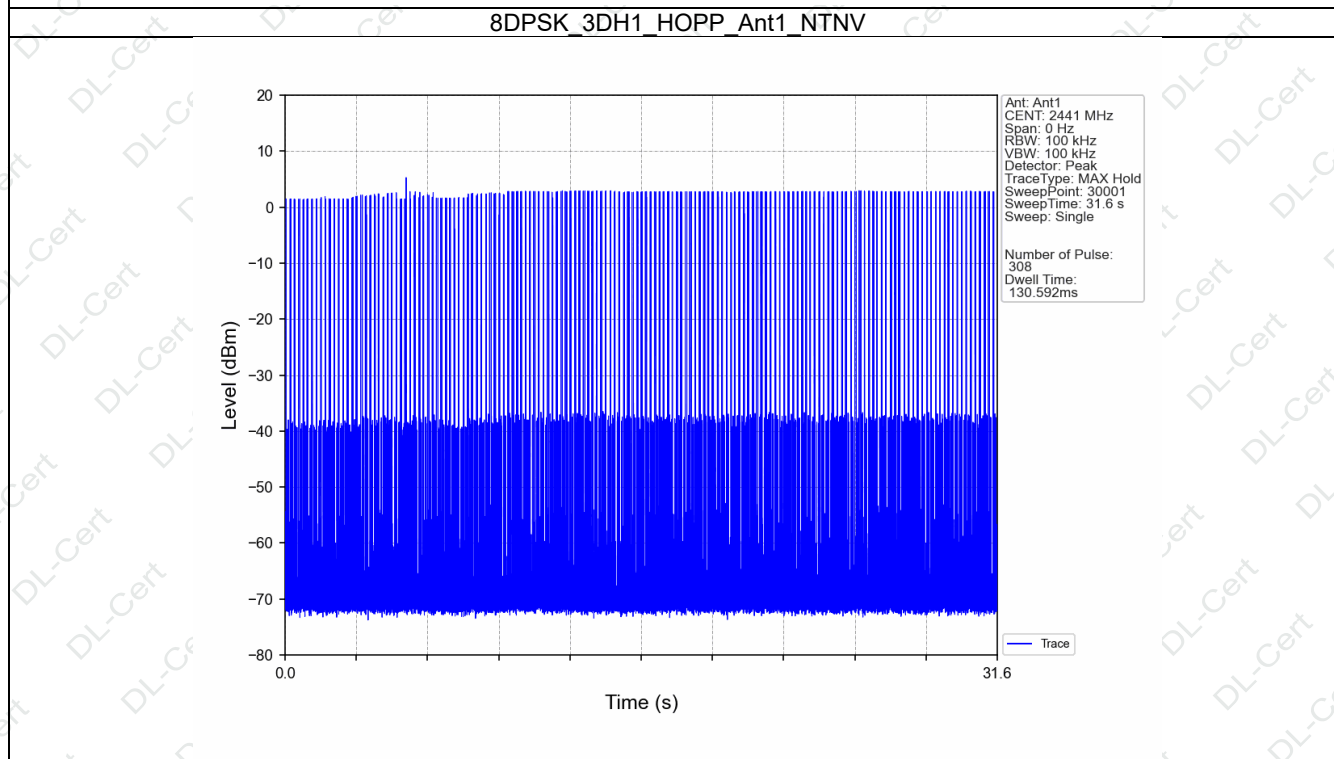
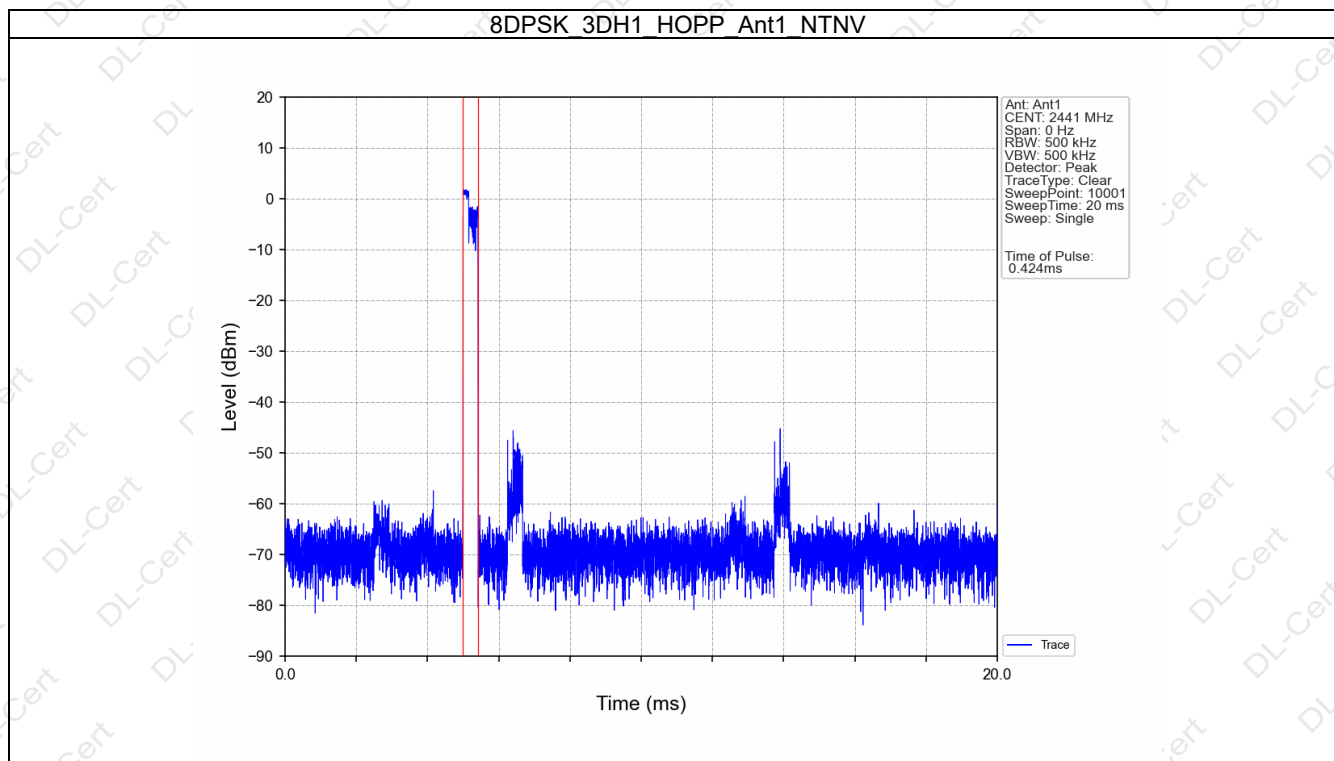
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV

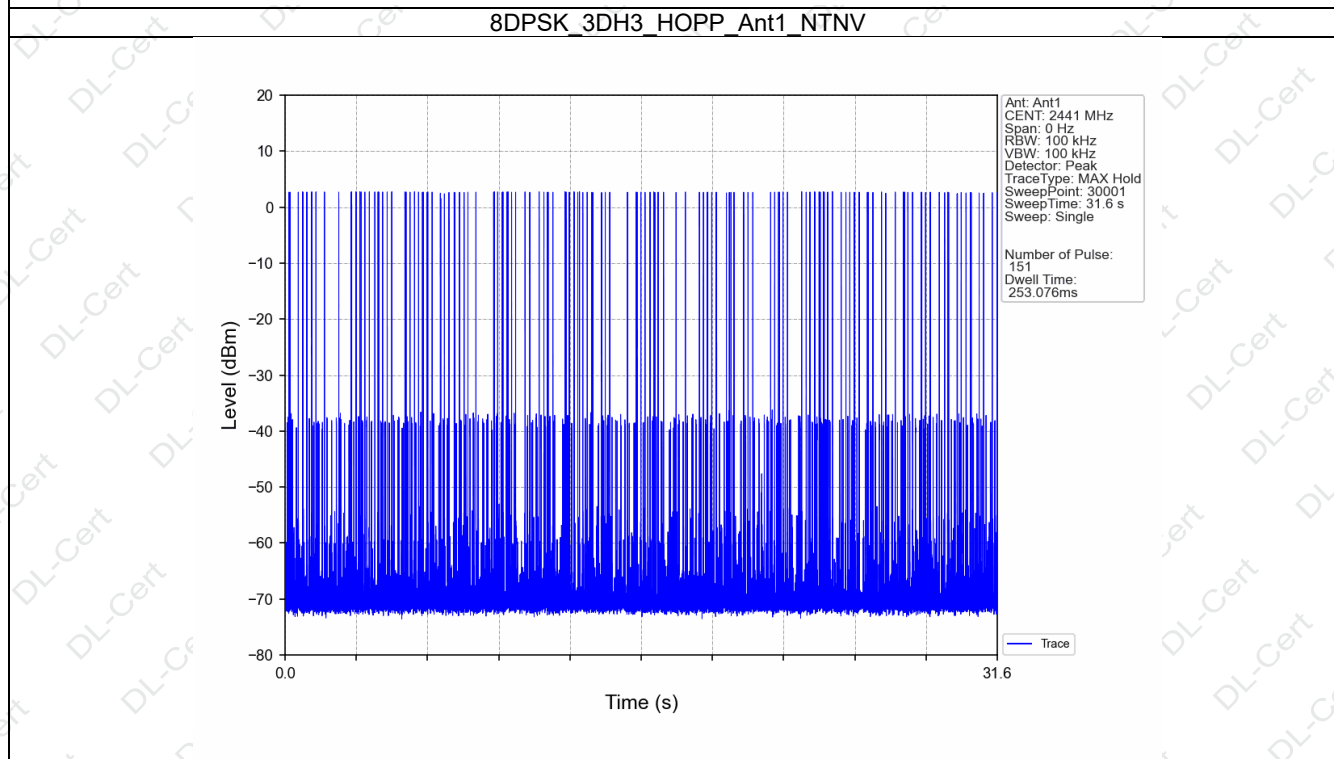
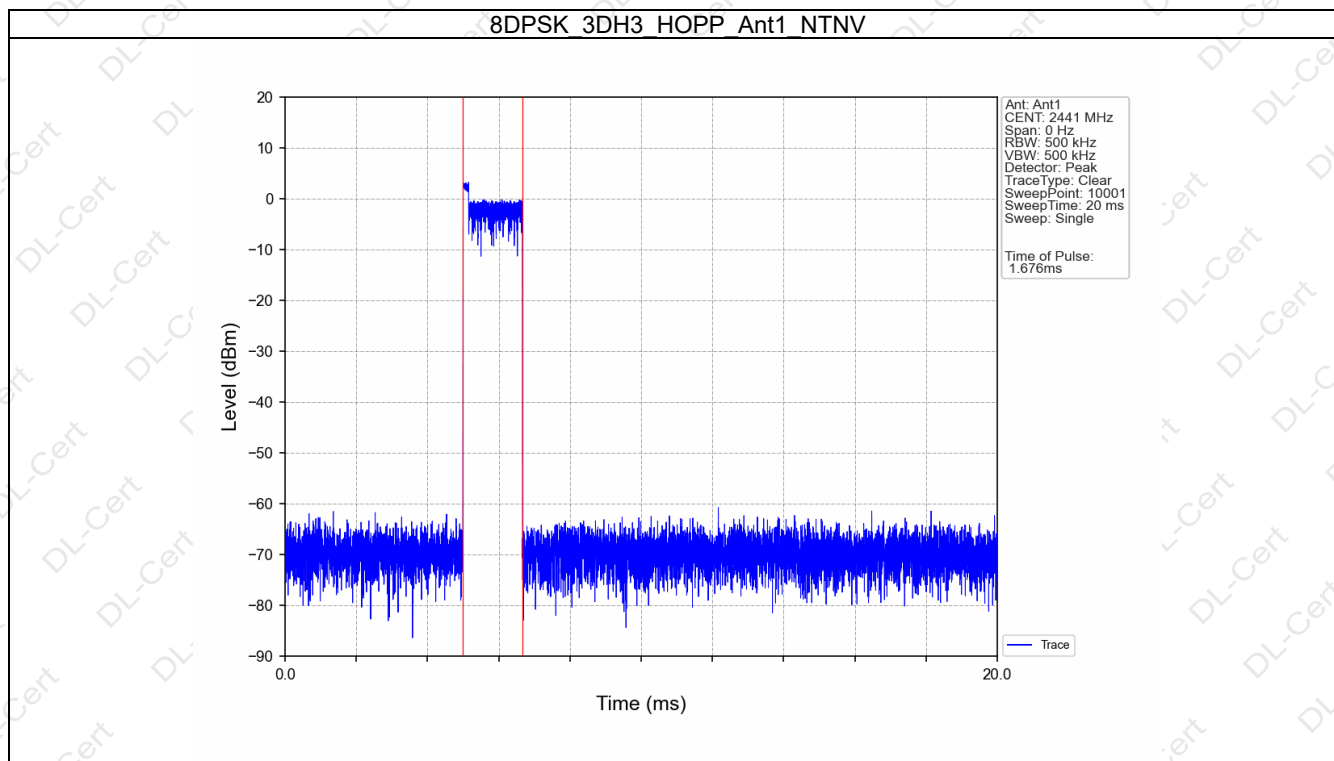


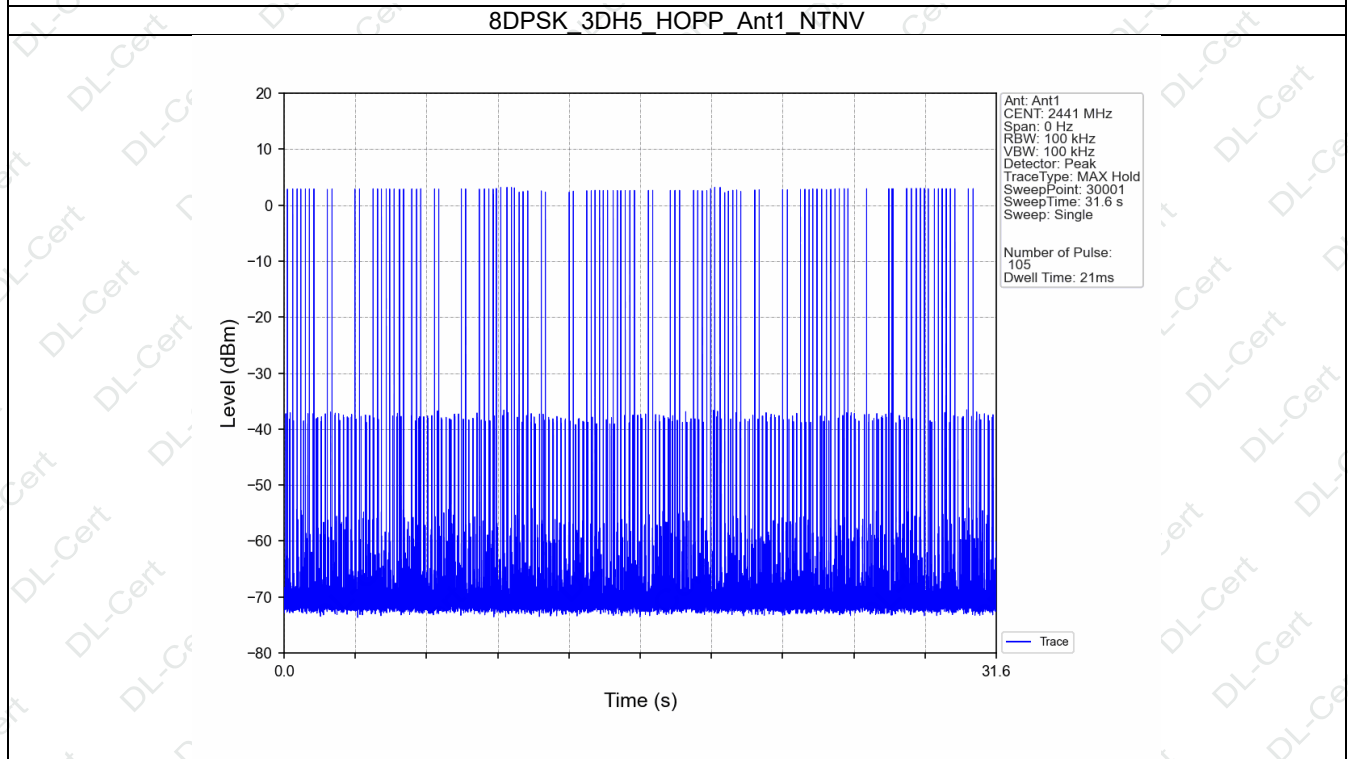
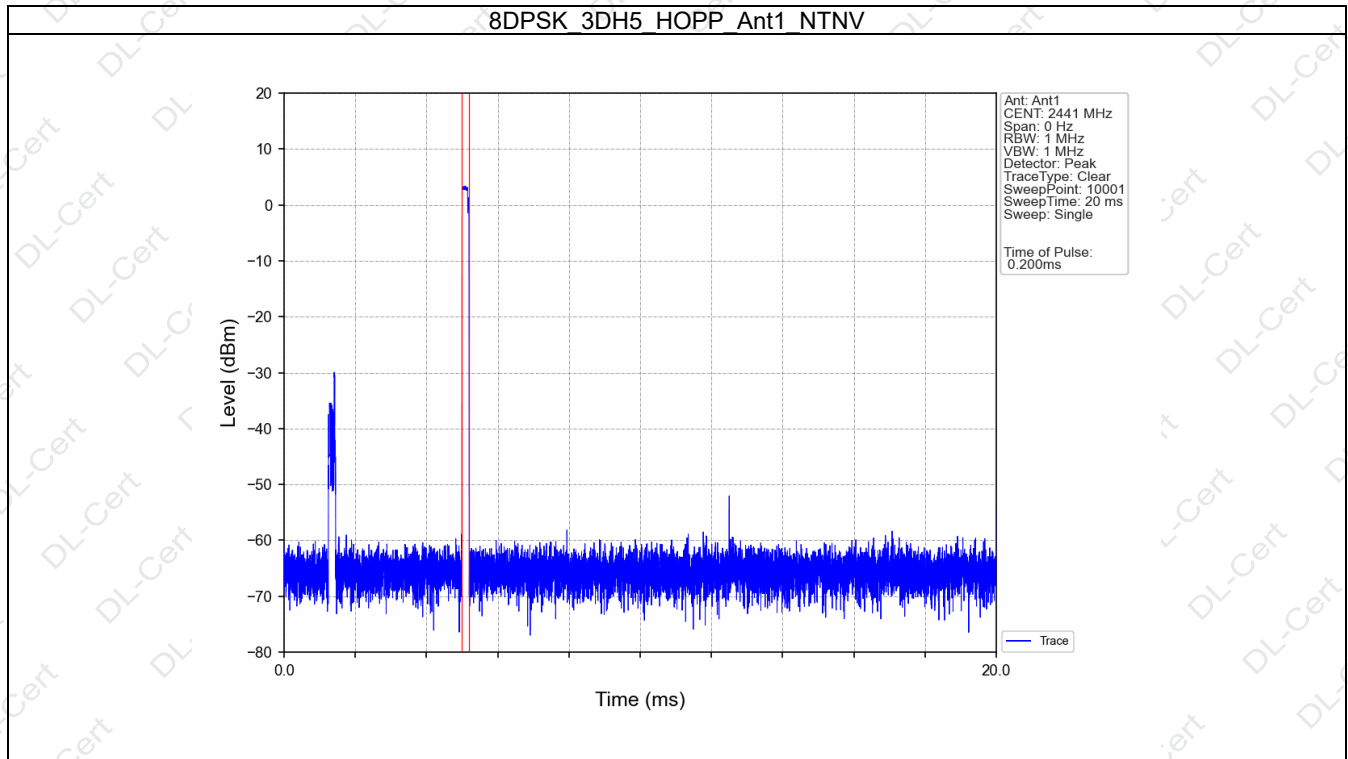
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV











6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

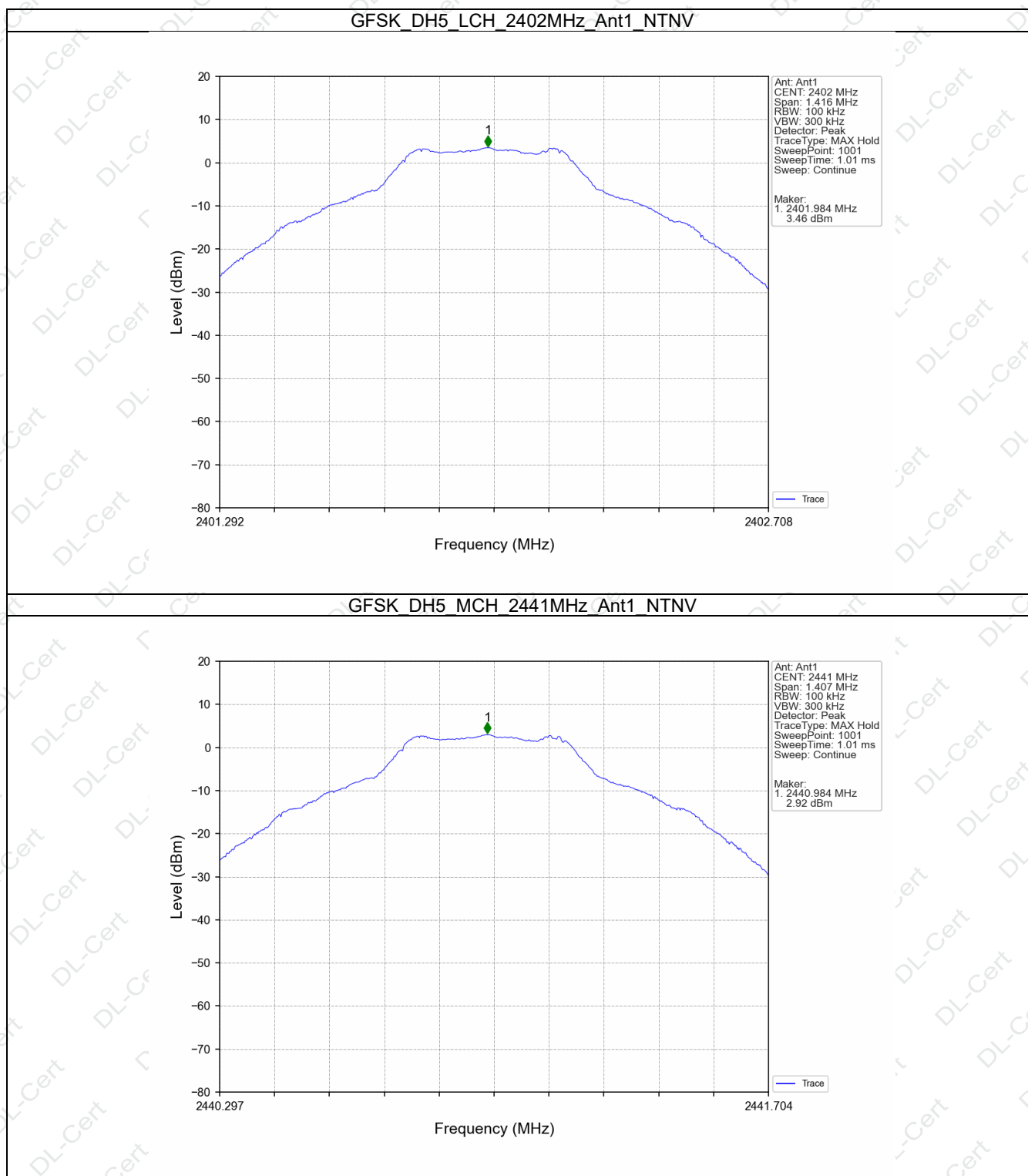
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	3.46
		2441	DH5	1	2.92
		2480	DH5	1	4.16
		HOPP	DH5	1	3.70
					3.70
Pi/4DQPSK	SISO	2402	2DH5	1	3.62
		2441	2DH5	1	3.27
		2480	2DH5	1	4.31
		HOPP	2DH5	1	3.57
					3.57
8DPSK	SISO	2402	3DH5	1	3.71
		2441	3DH5	1	3.42
		2480	3DH5	1	4.53
		HOPP	3DH5	1	4.42
					4.42
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.					

6.1.2 CSE

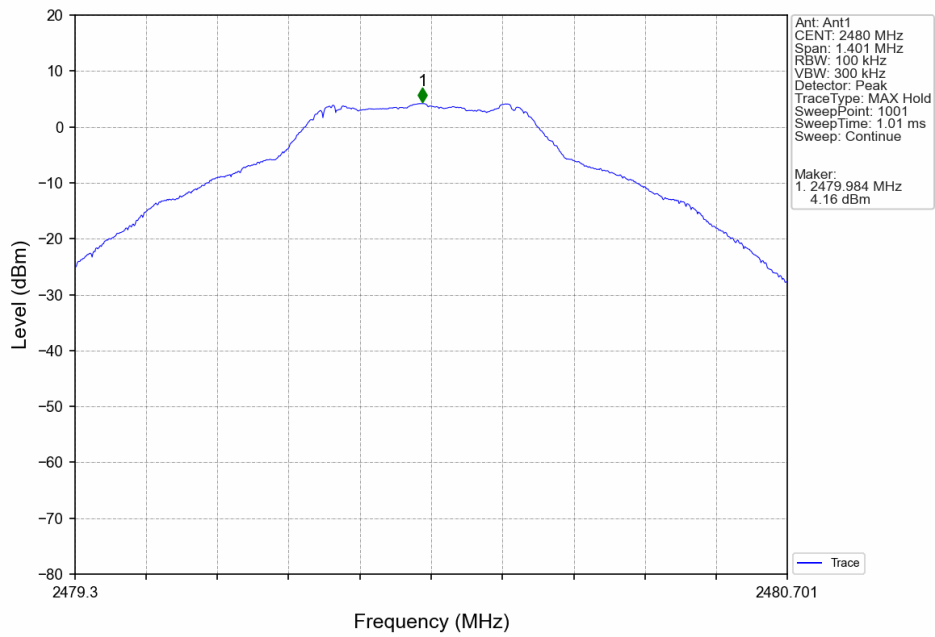
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	3.46	-16.54	Pass
		2441	DH5	1	2.92	-17.08	Pass
		2480	DH5	1	4.16	-15.84	Pass
		HOPP	DH5	1	3.70	-16.30	Pass
					3.70	-16.30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	3.62	-16.38	Pass
		2441	2DH5	1	3.27	-16.73	Pass
		2480	2DH5	1	4.31	-15.69	Pass
		HOPP	2DH5	1	3.57	-16.43	Pass
					3.57	-16.43	Pass
8DPSK	SISO	2402	3DH5	1	3.71	-16.29	Pass
		2441	3DH5	1	3.42	-16.58	Pass
		2480	3DH5	1	4.53	-15.47	Pass
		HOPP	3DH5	1	4.42	-15.58	Pass
					4.42	-15.58	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 Graph

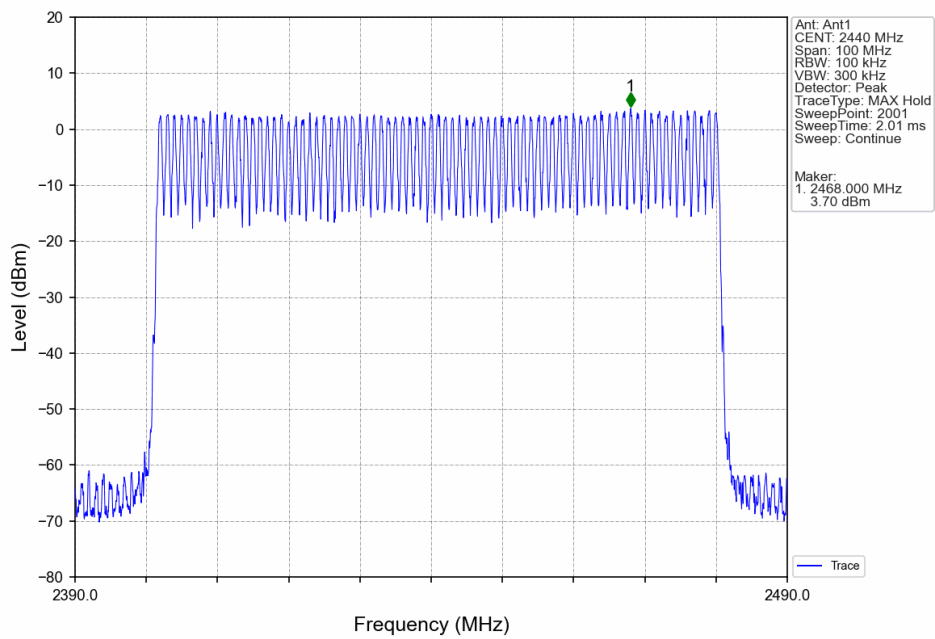
6.2.1 Ref

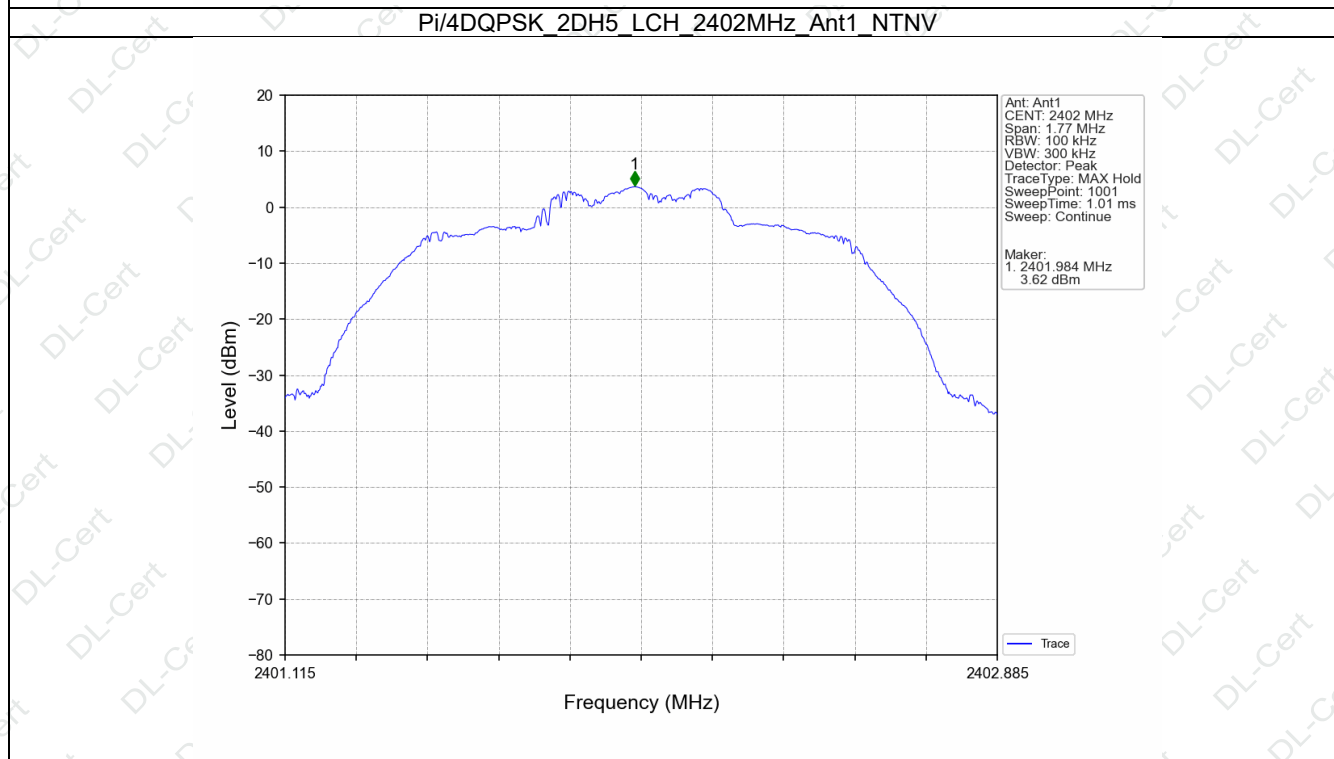
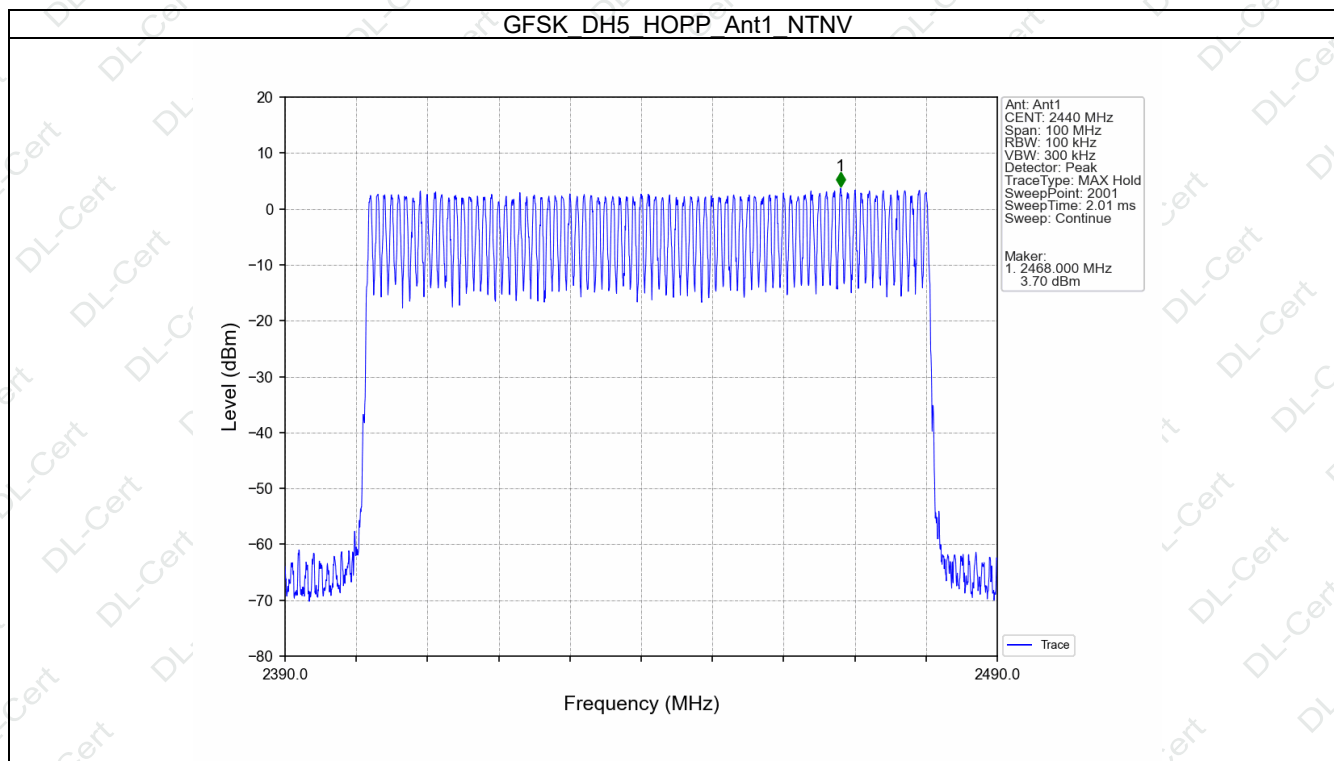


GFSK DH5 HCH 2480MHz Ant1 NTN

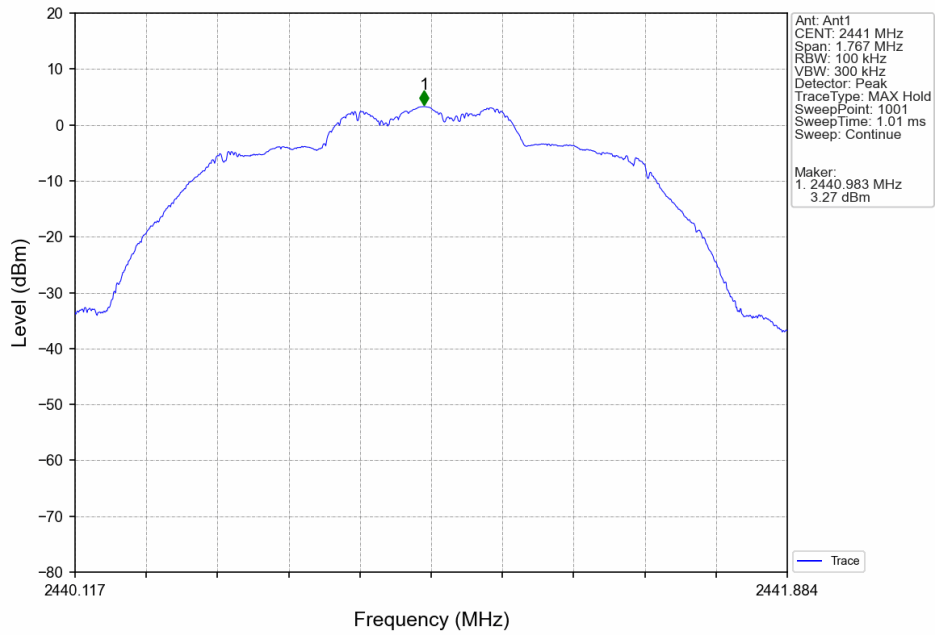


GFSK_DH5_HOPP_Ant1_NTNV

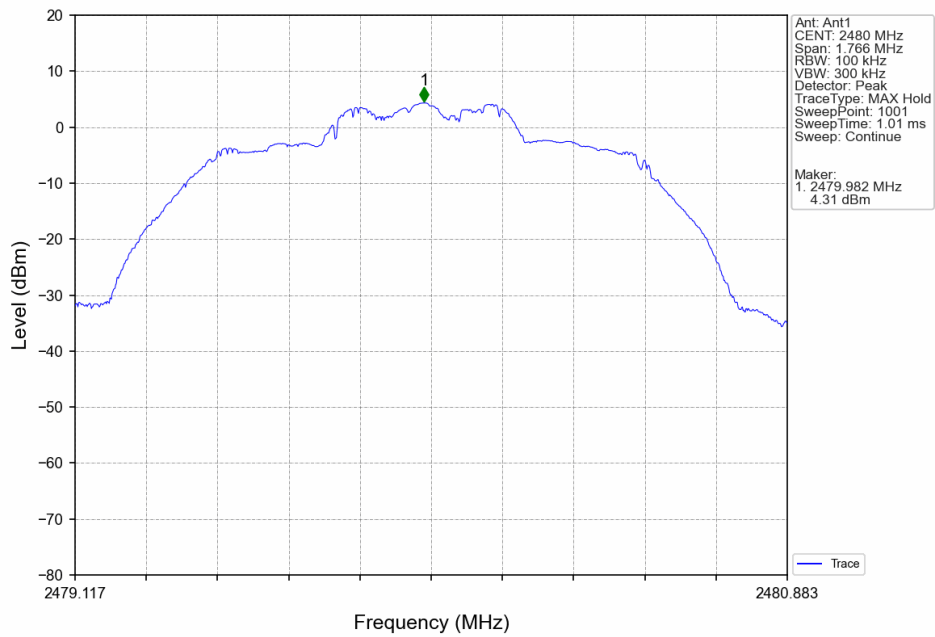




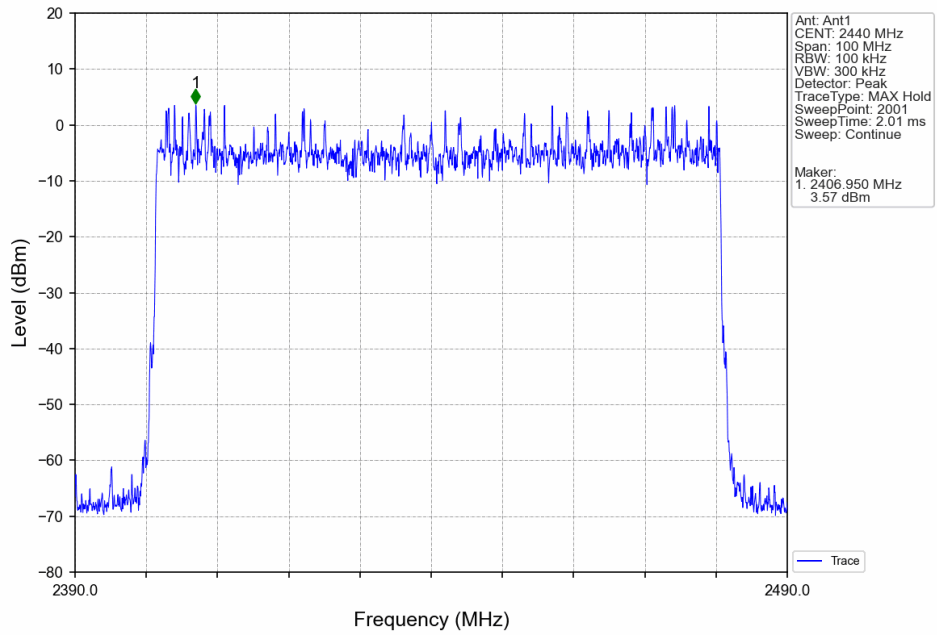
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTN



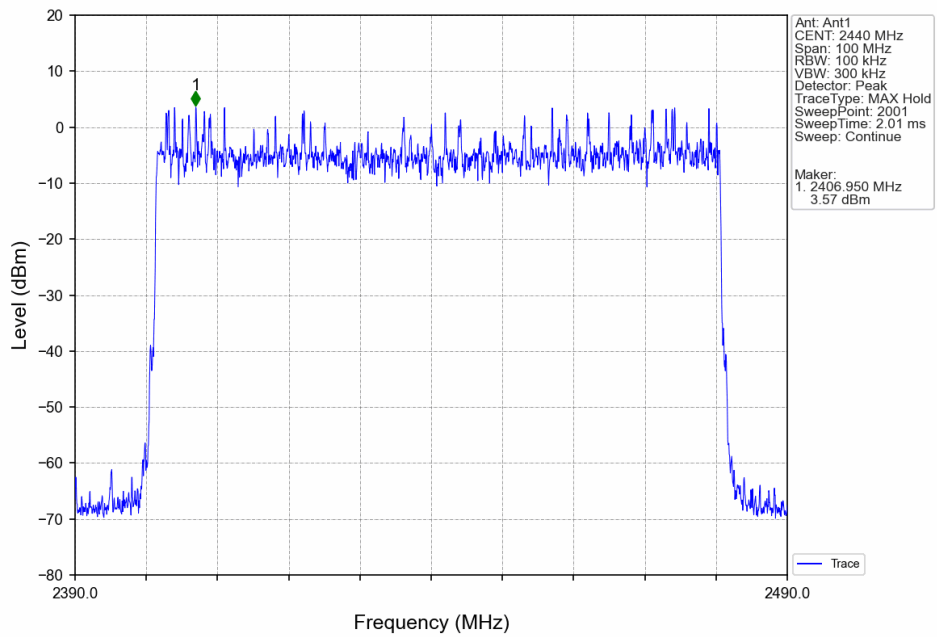
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



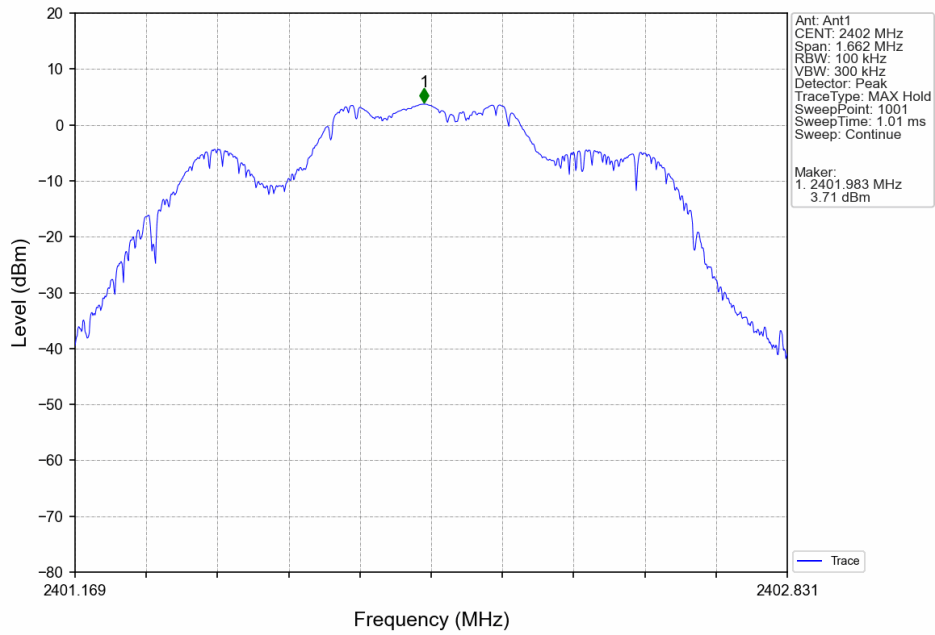
Pi/4DQPSK 2DH5 HOPP Ant1 NTV



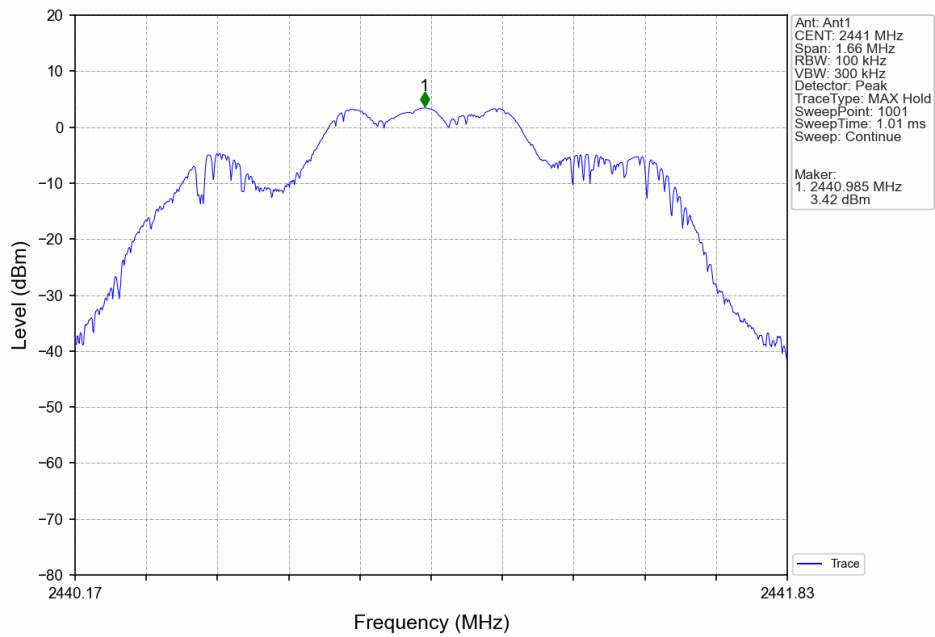
Pi/4DQPSK_2DH5_HOPP_Ant1_NTV

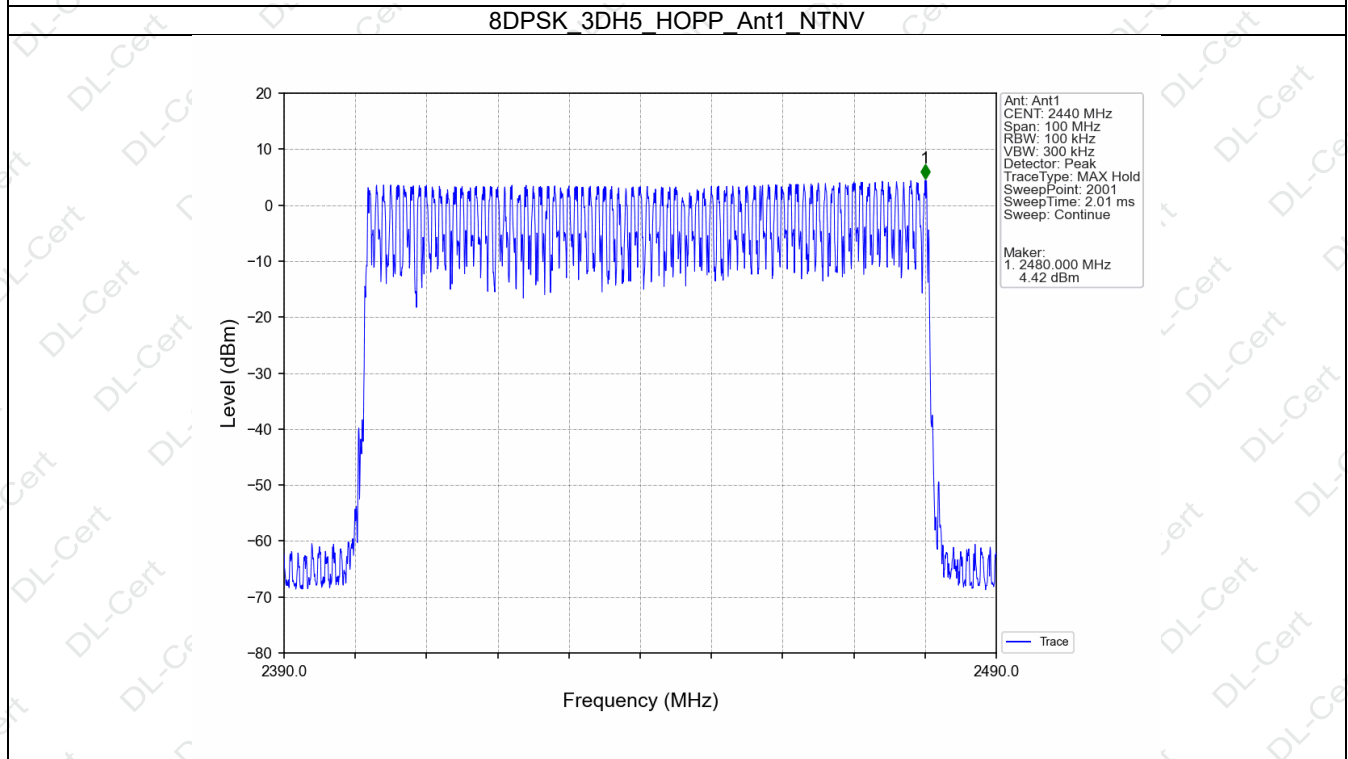
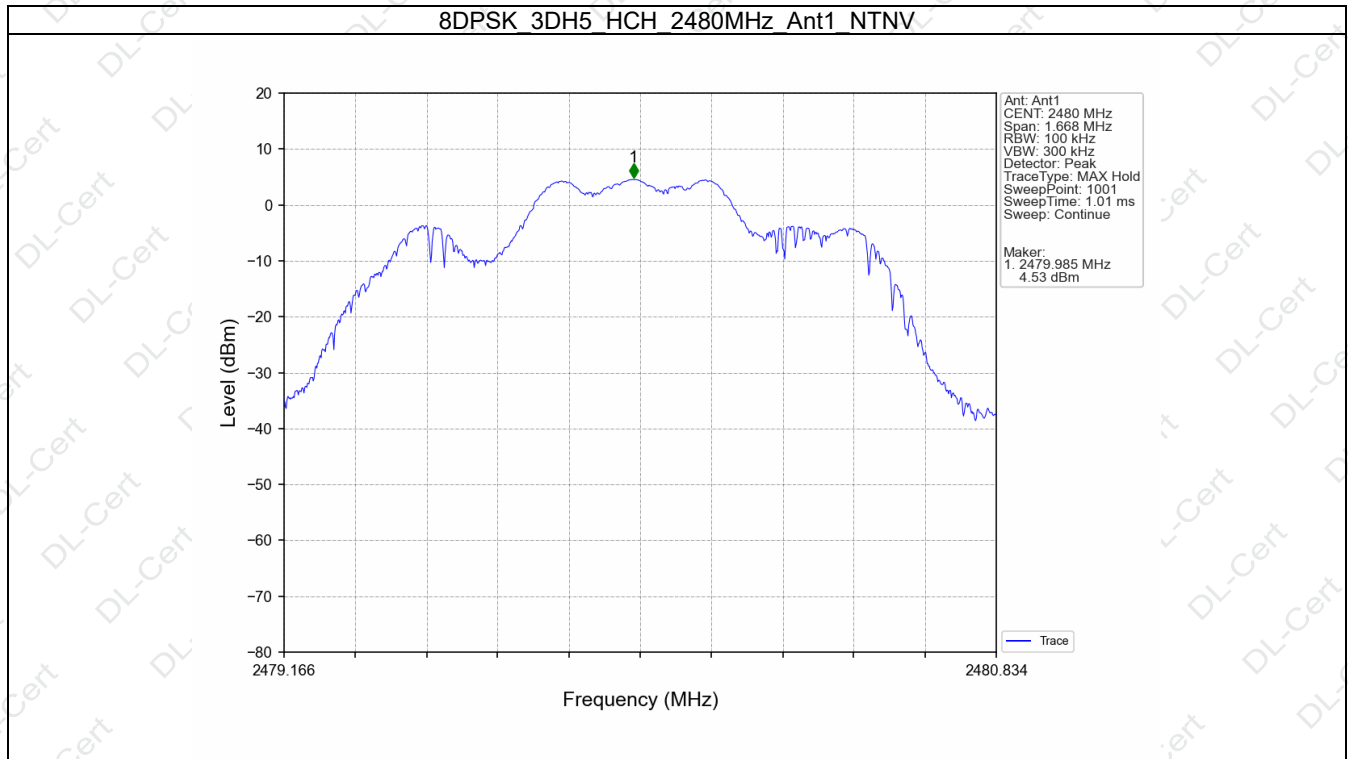


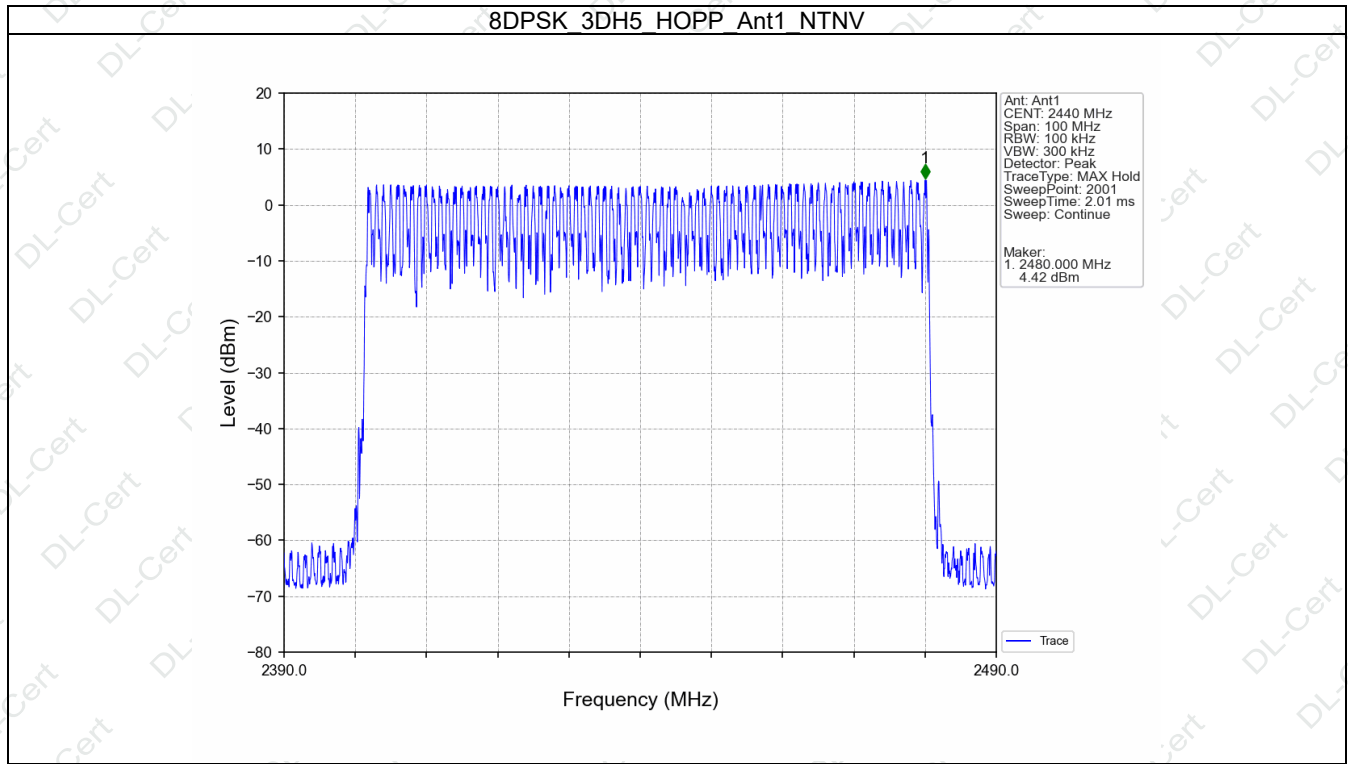
8DPSK 3DH5 LCH 2402MHz Ant1 NTN



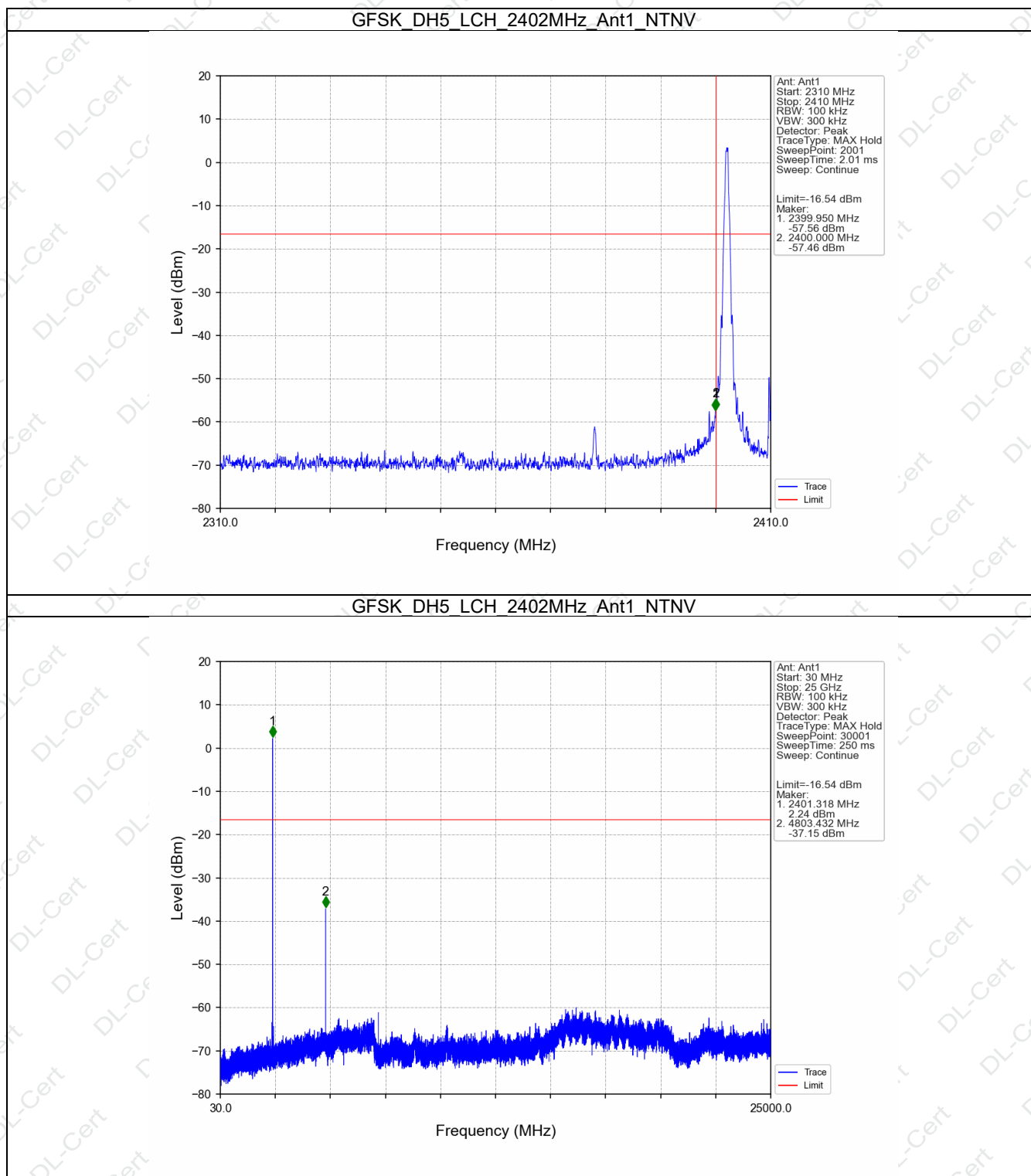
8DPSK 3DH5 MCH 2441MHz Ant1 NTN



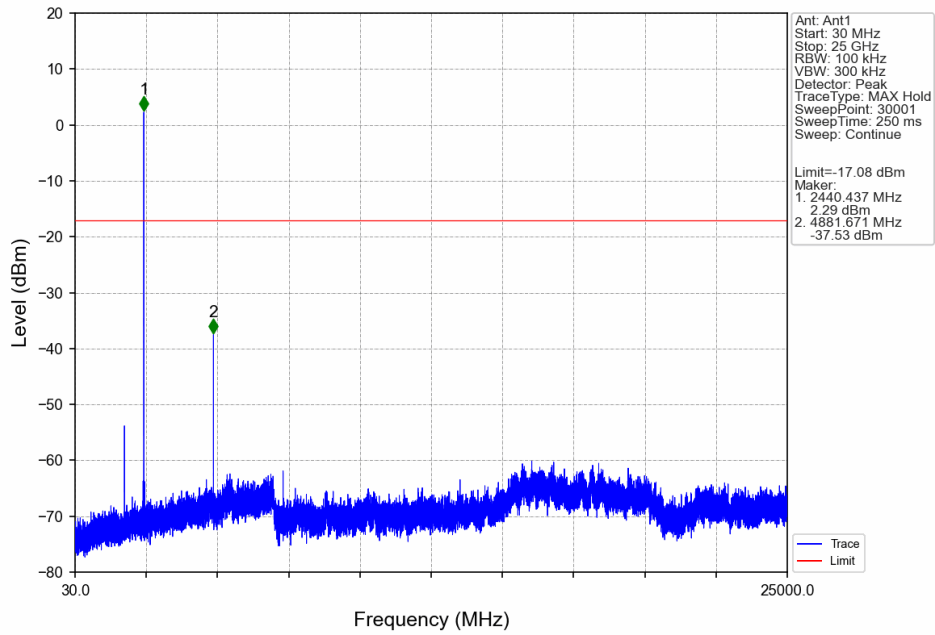




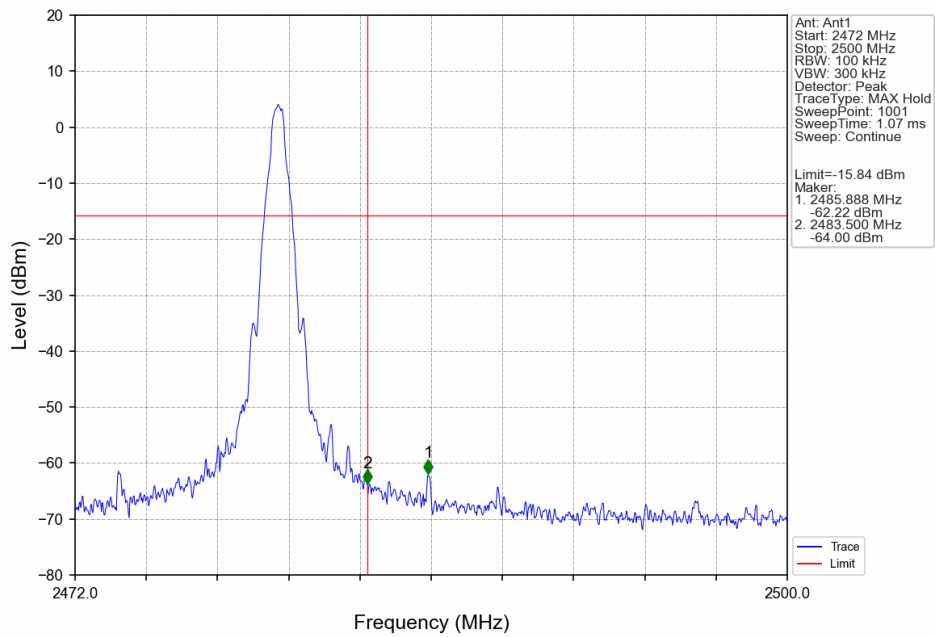
6.2.2 CSE



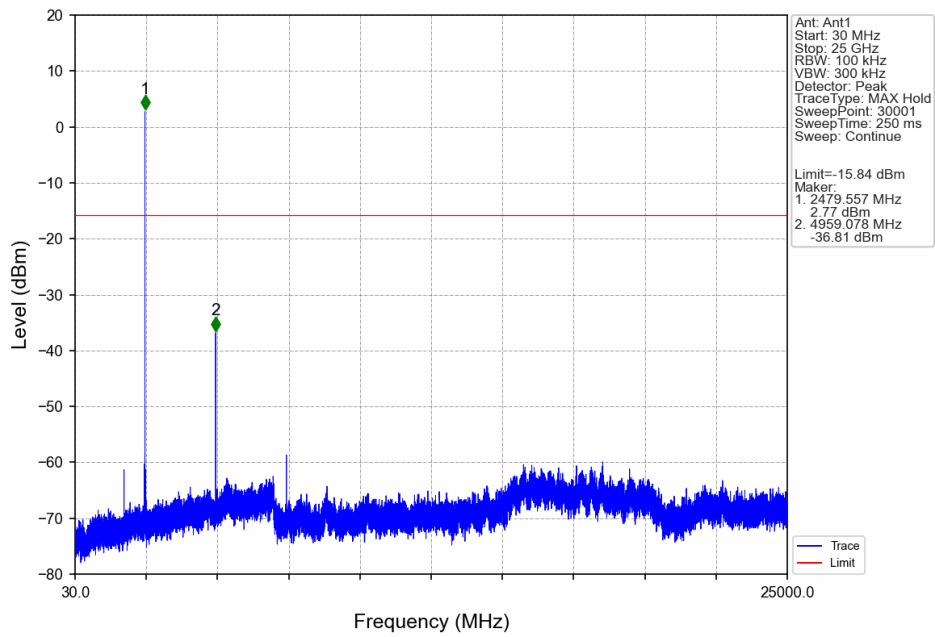
GFSK DH5 MCH 2441MHz Ant1 NTN



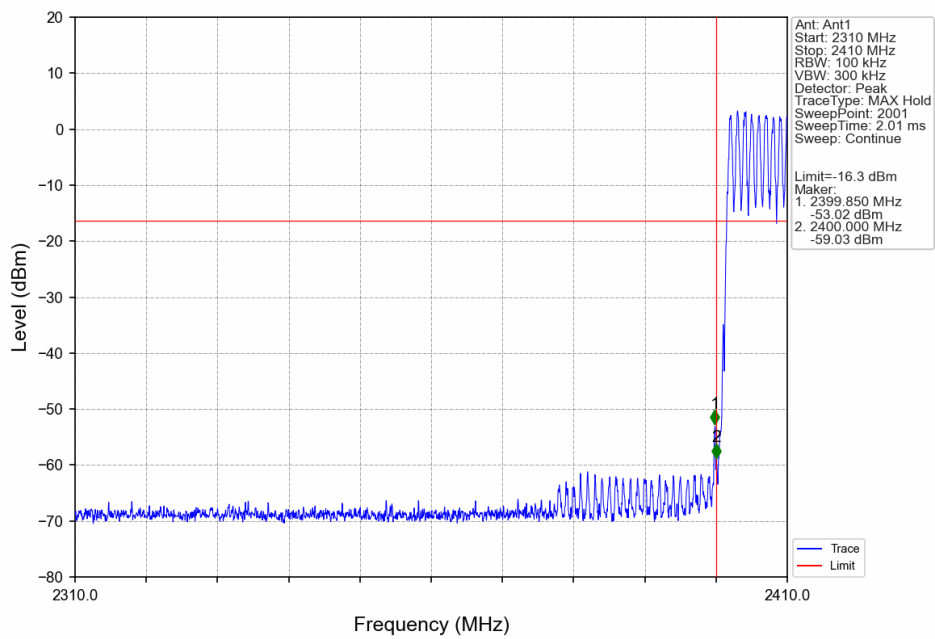
GFSK_DH5_HCH_2480MHz_Ant1_NTN



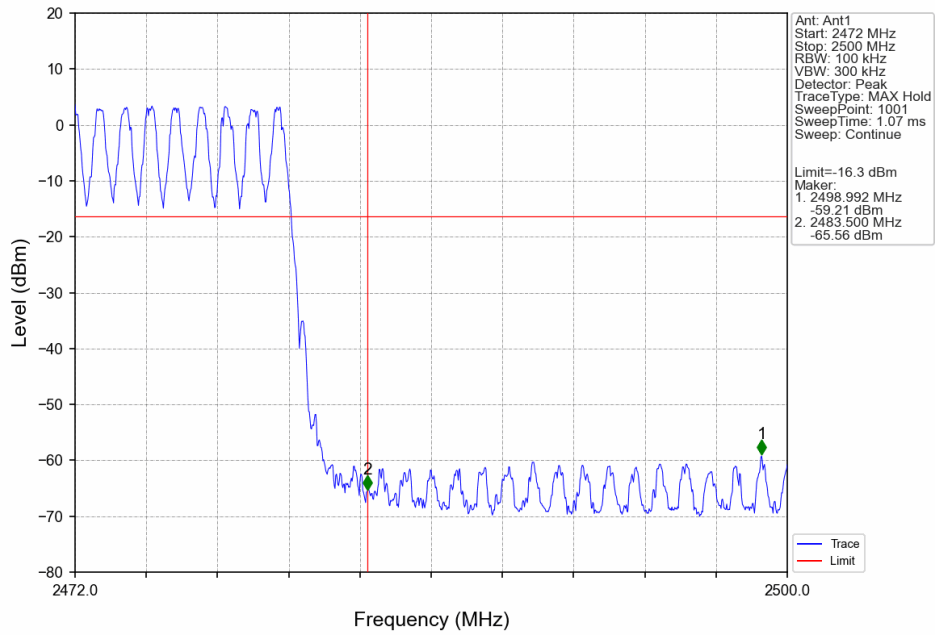
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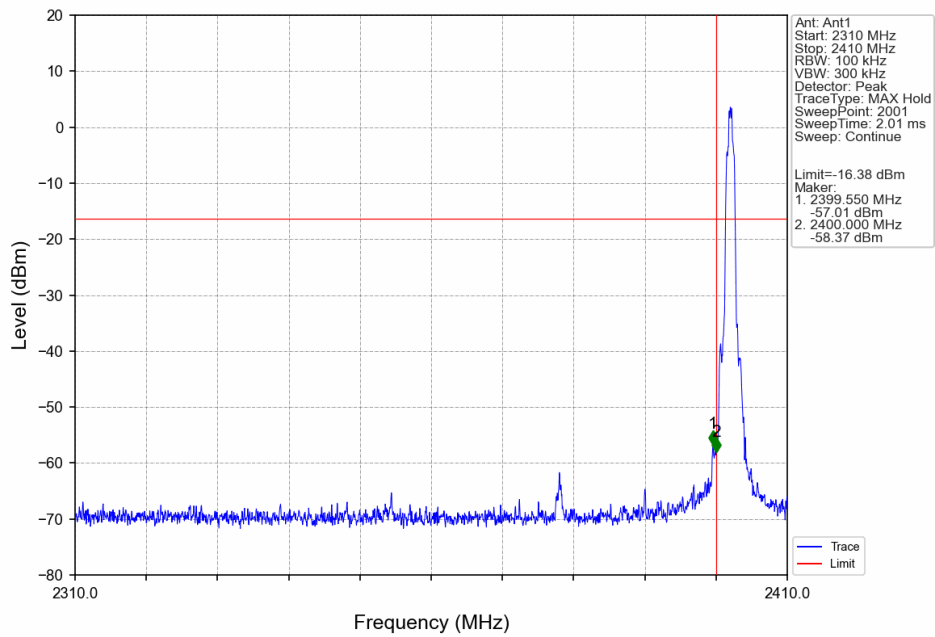
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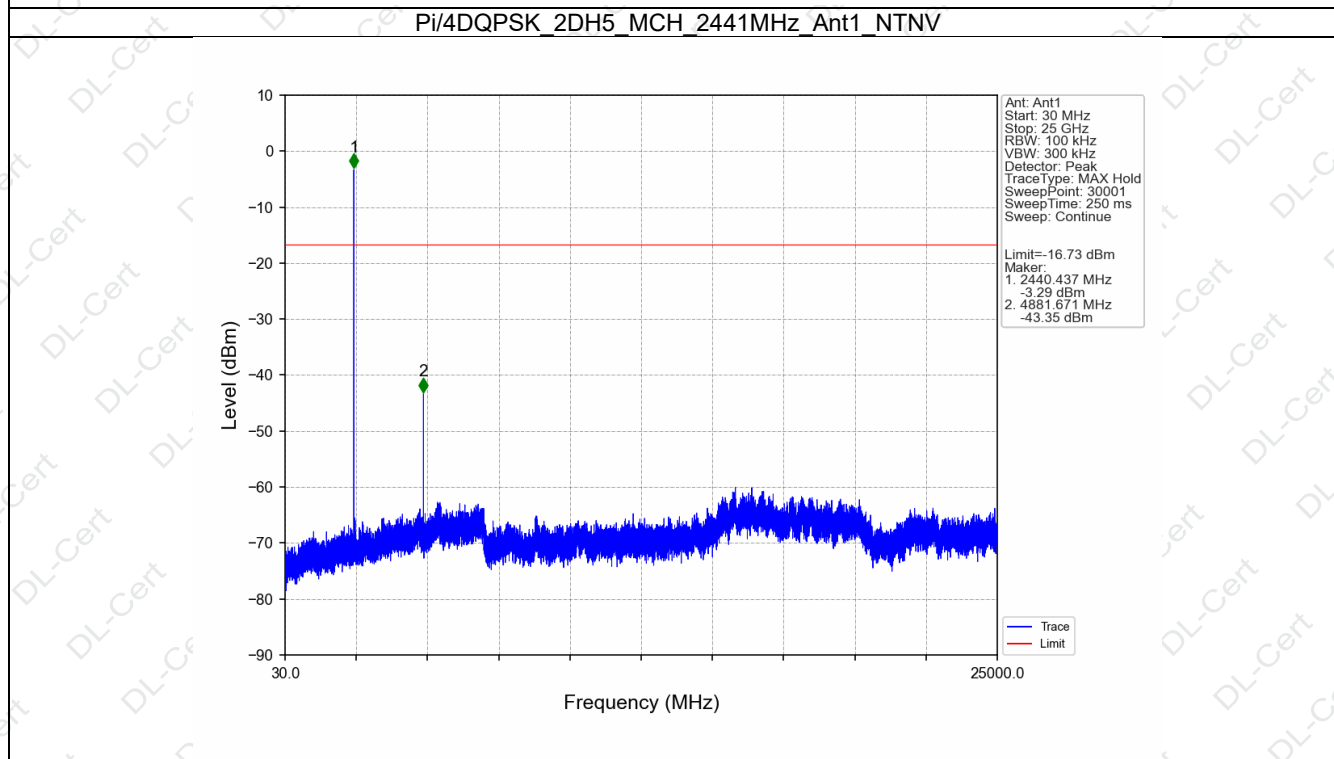
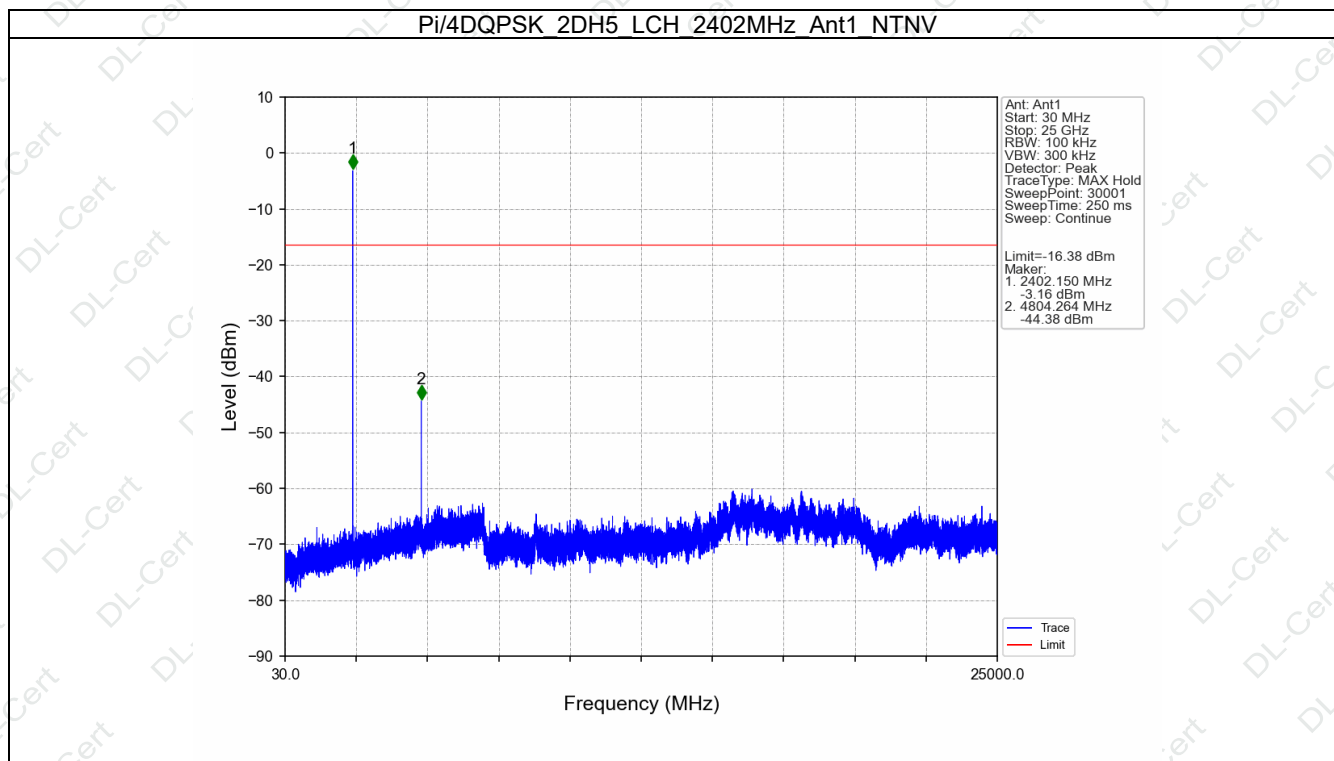


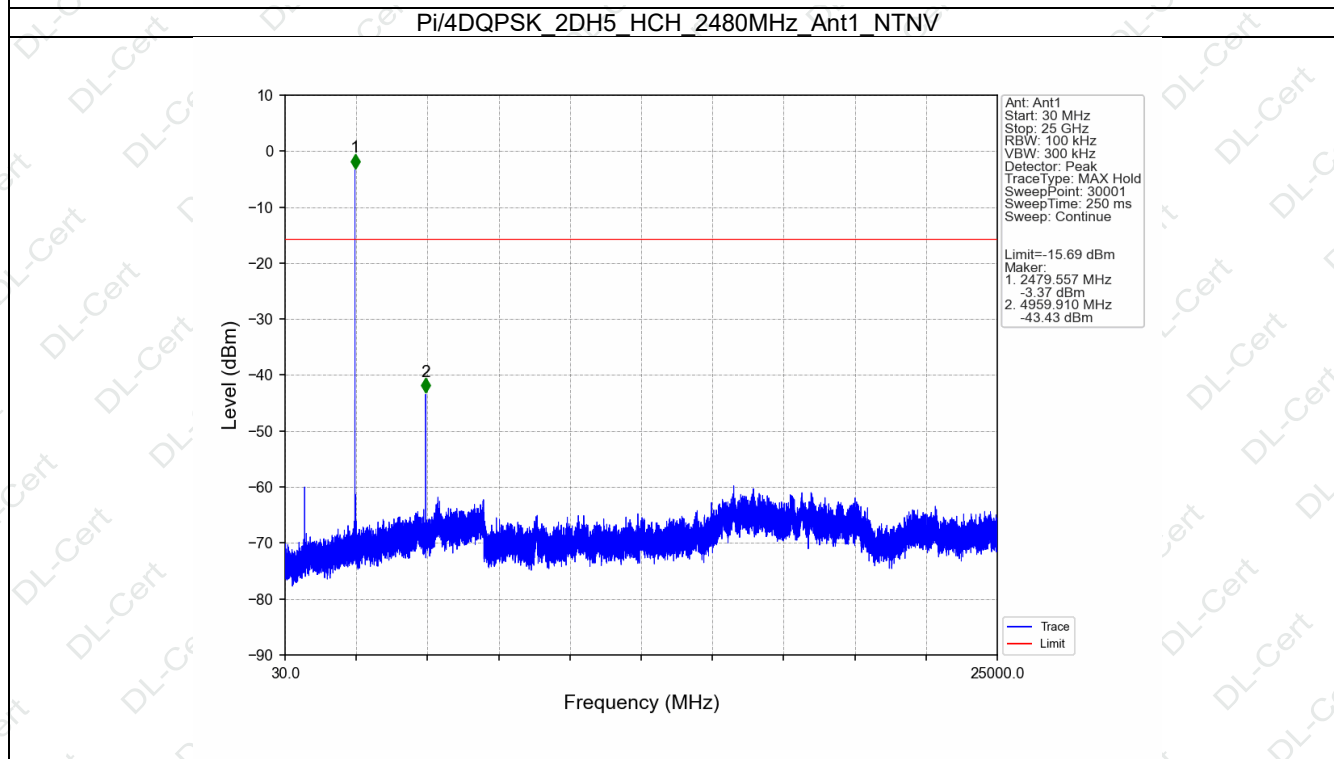
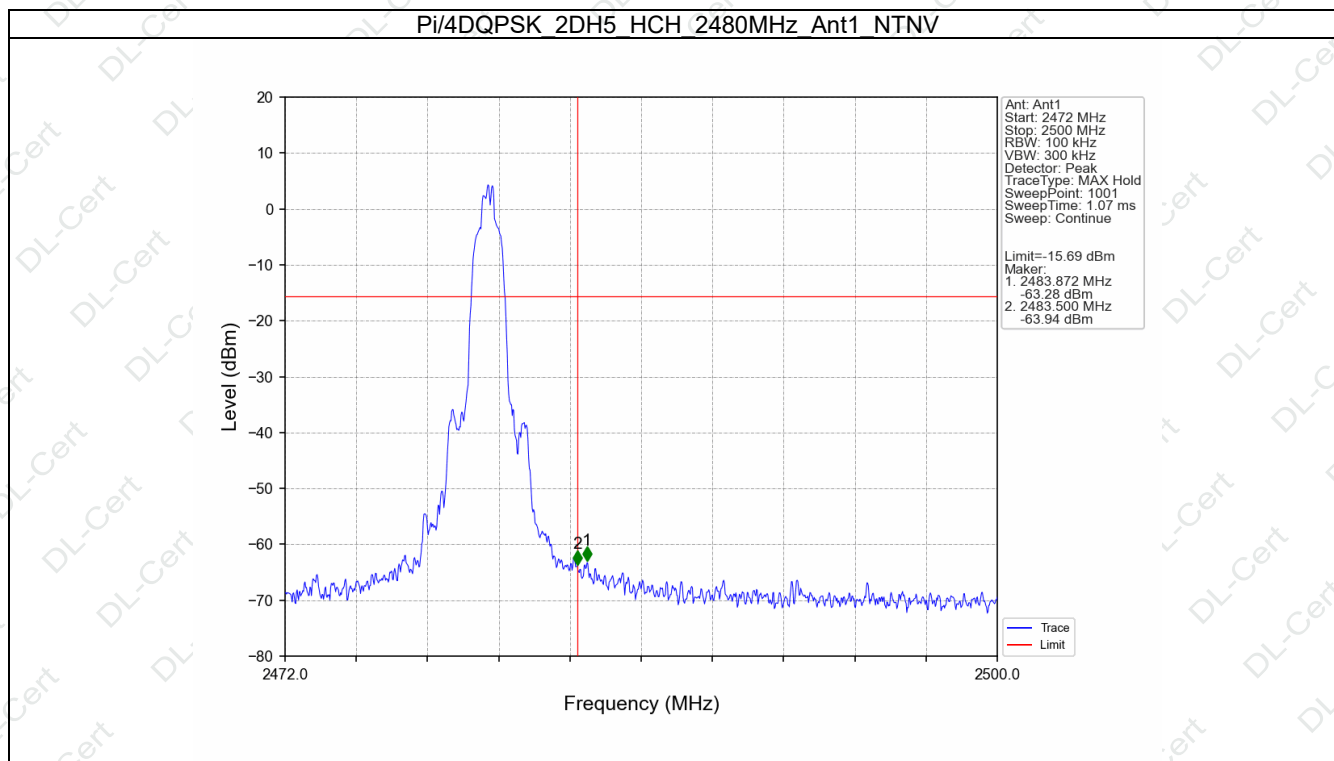
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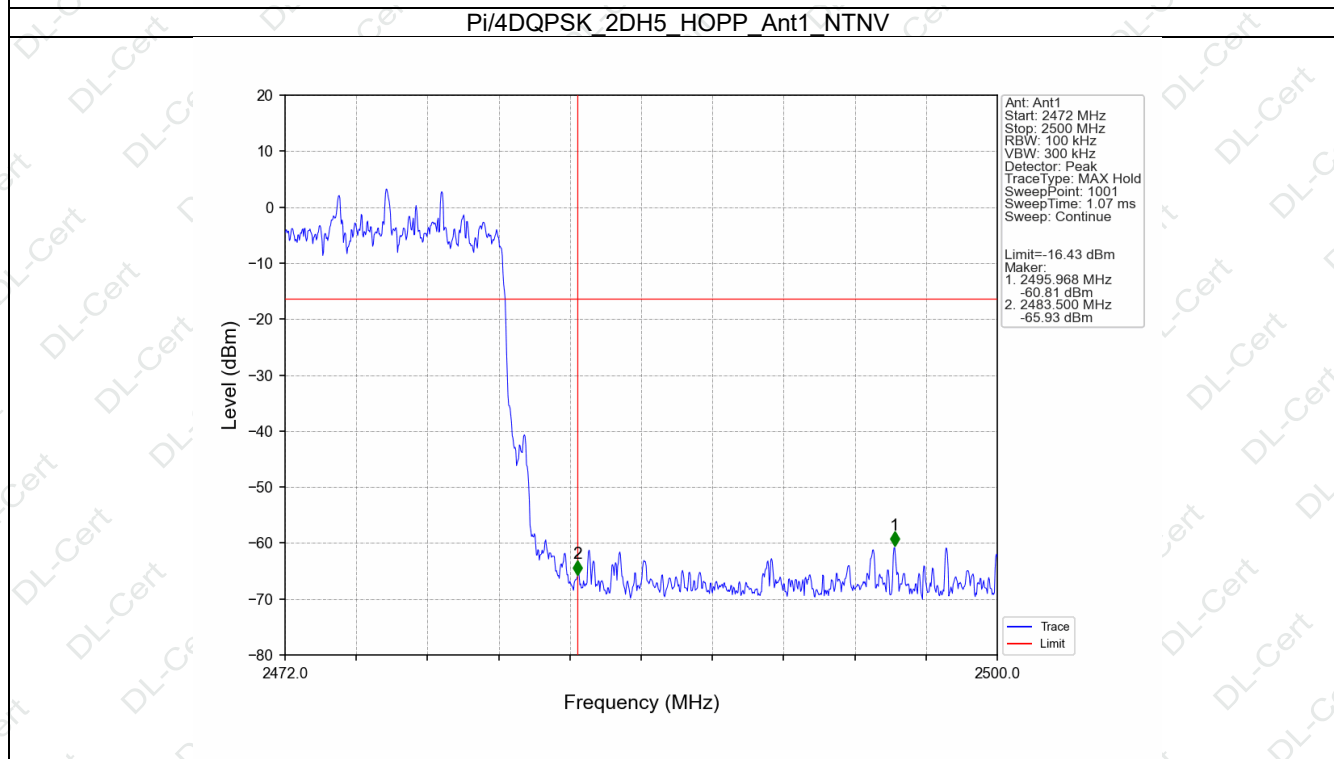
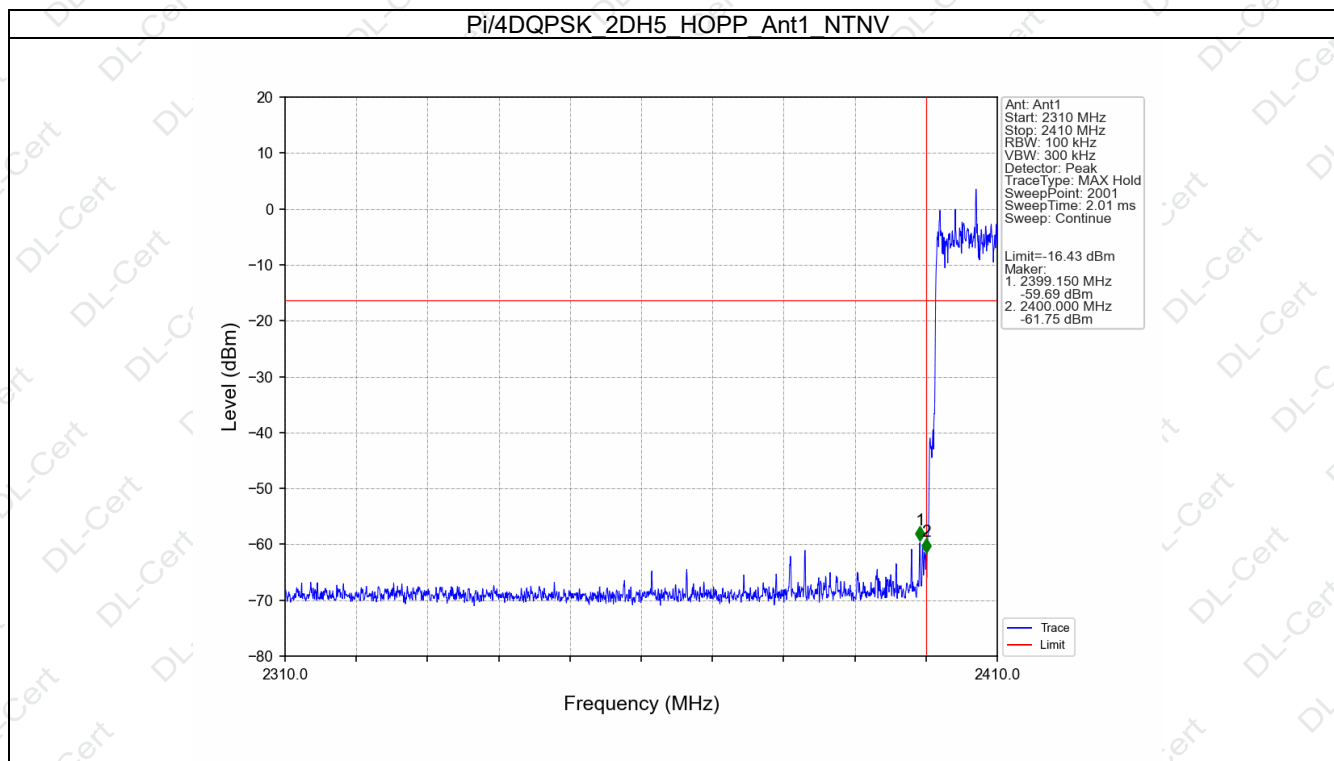


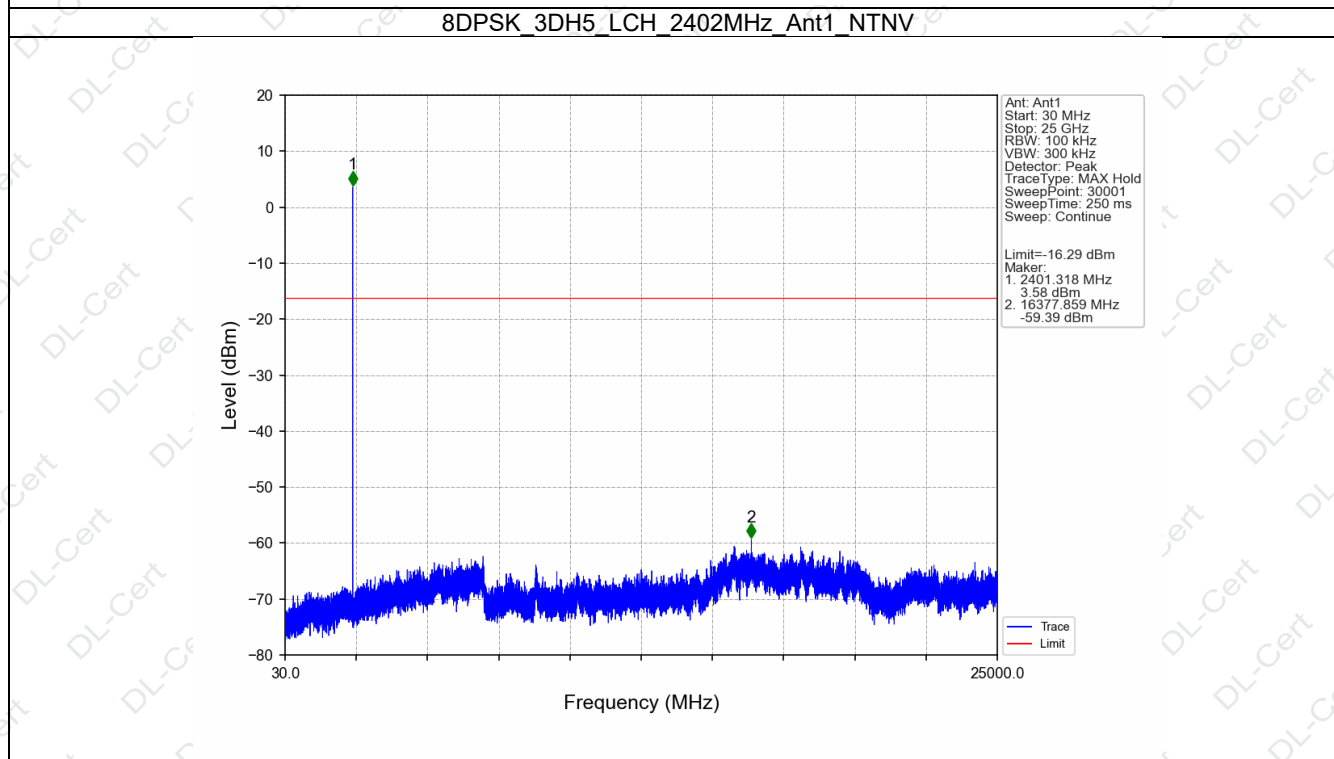
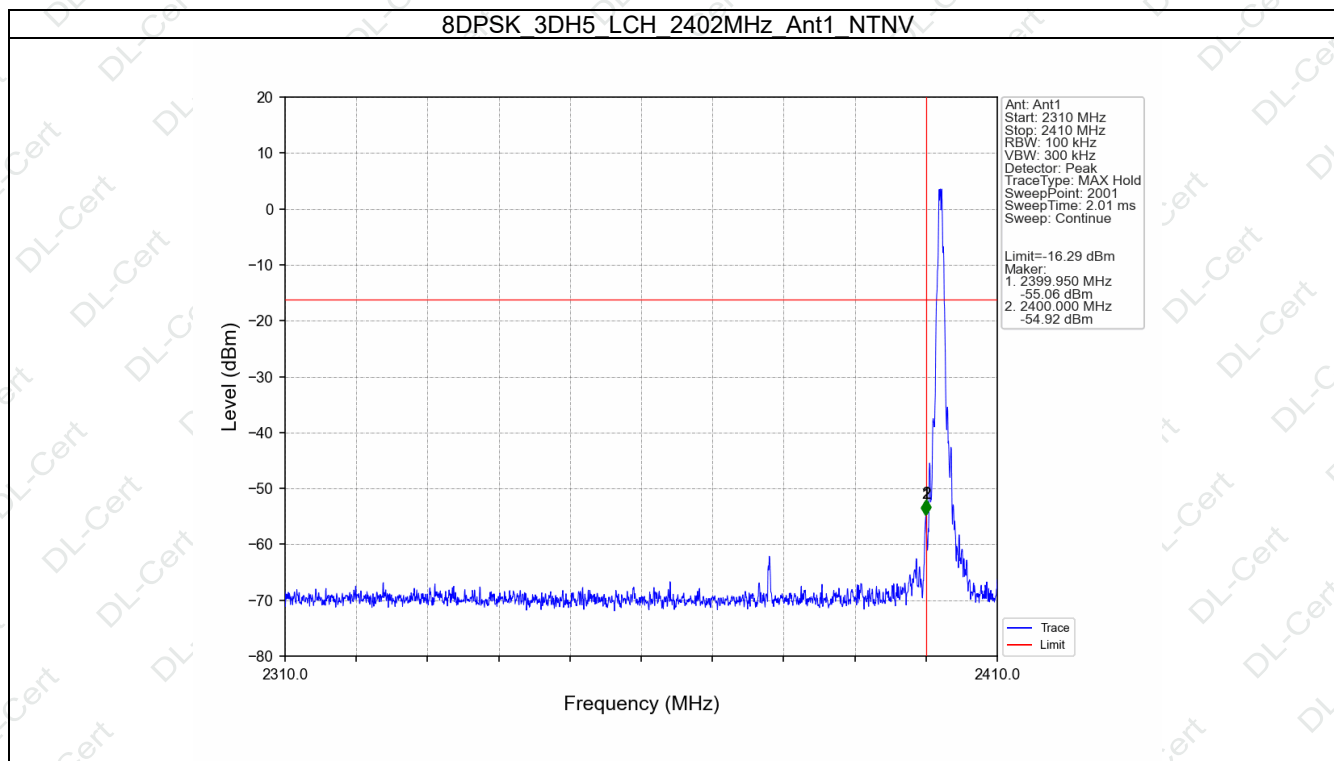
PI/4DQPSK_2DH5_LCH_2402MHz_Ant1 NTN

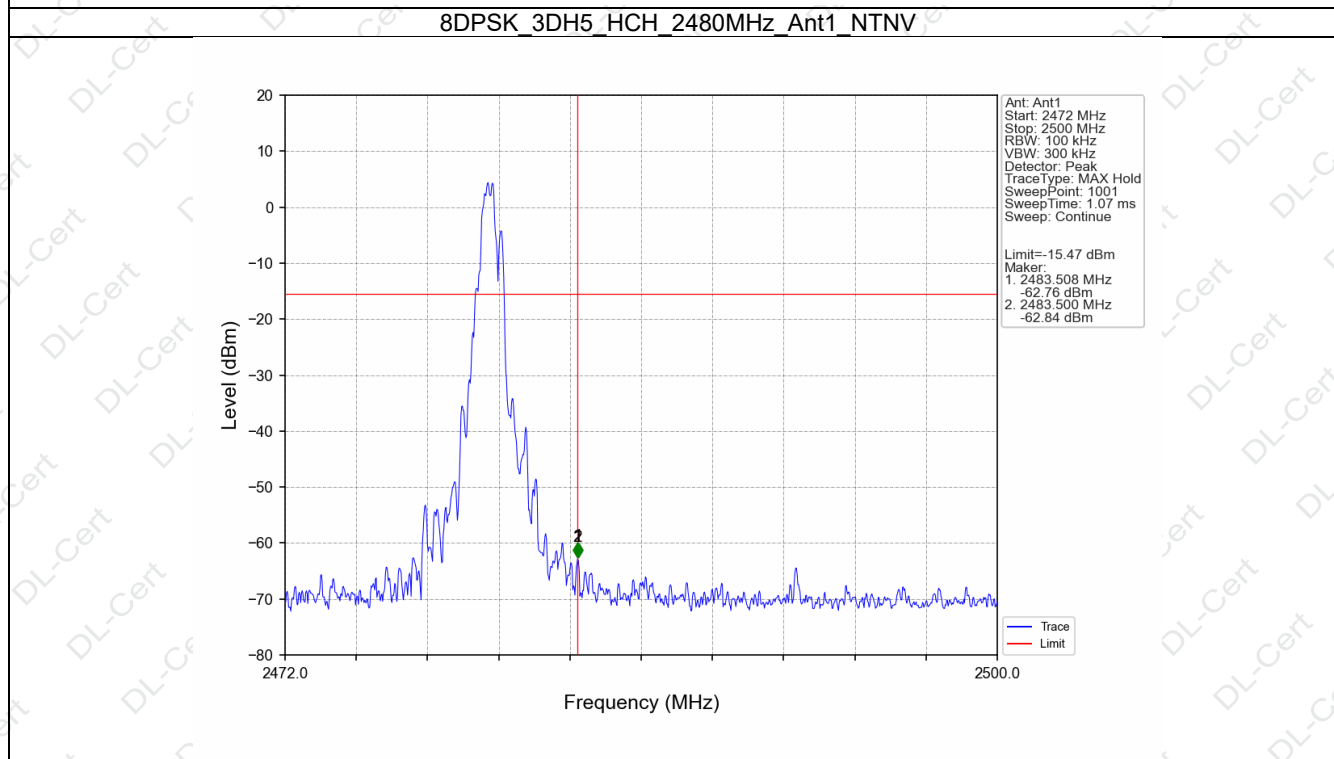
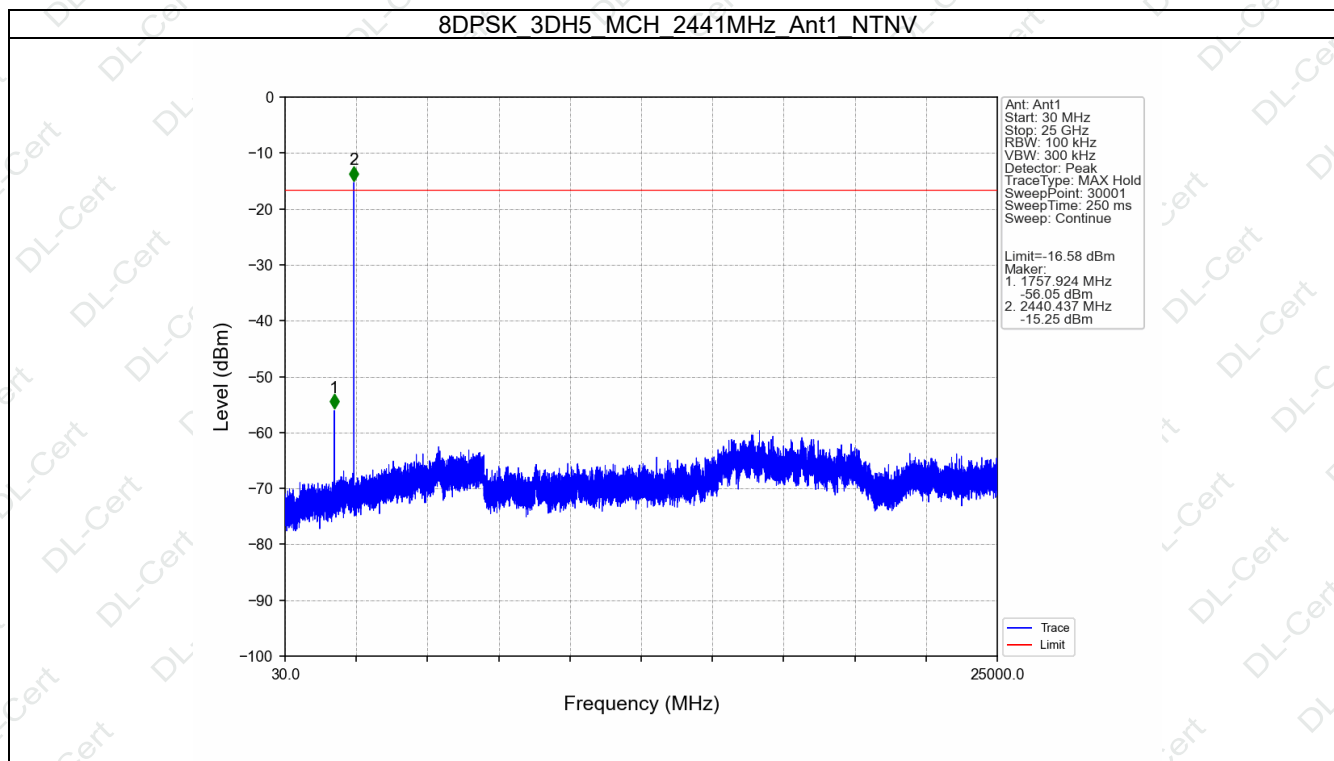




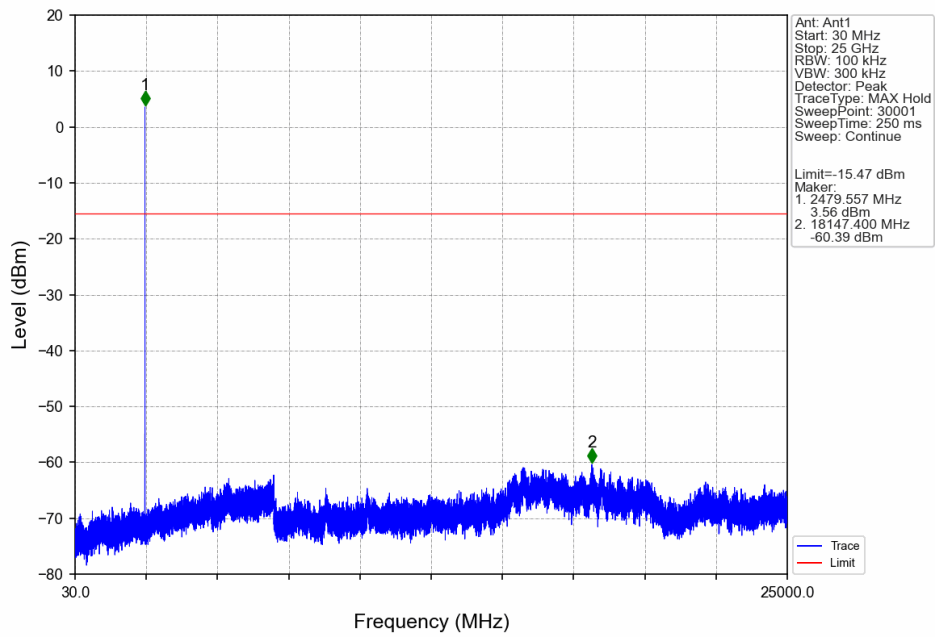








8DPSK 3DH5 HCH 2480MHz Ant1 NTN



8DPSK 3DH5 HOPP Ant1 NTN

