

Appendix for 15.247

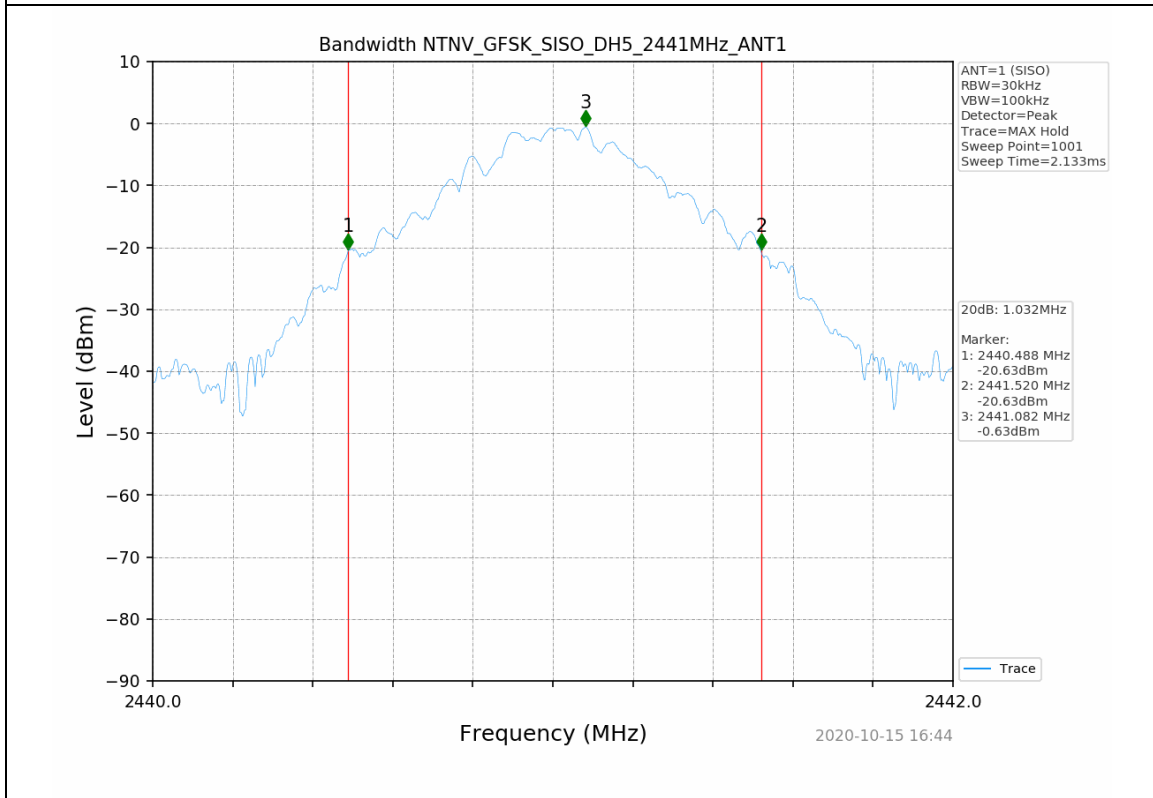
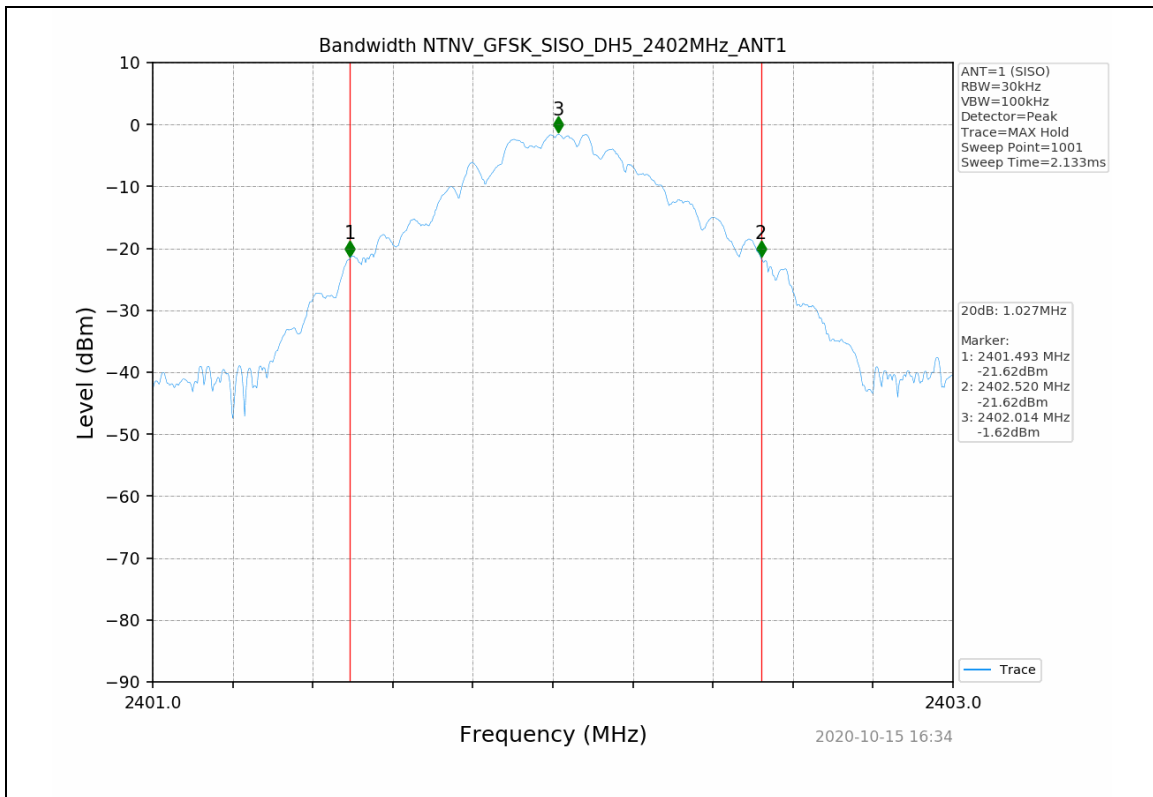
1. Bandwidth

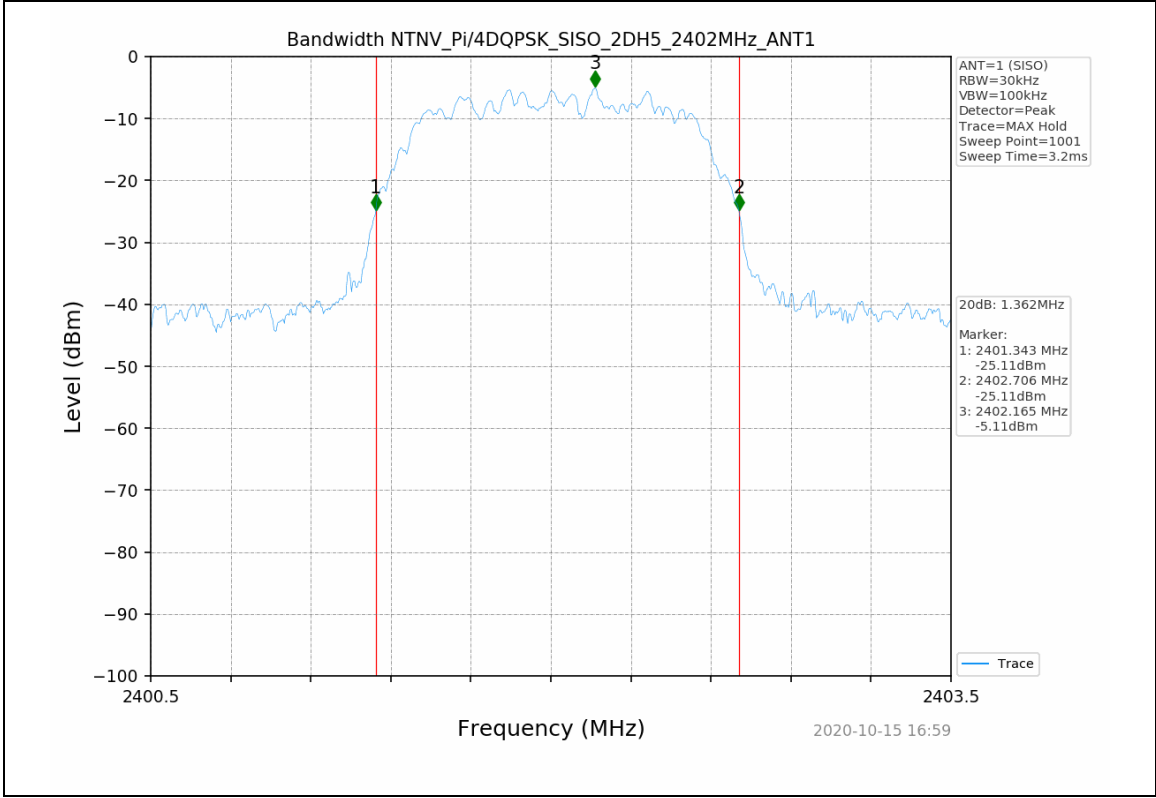
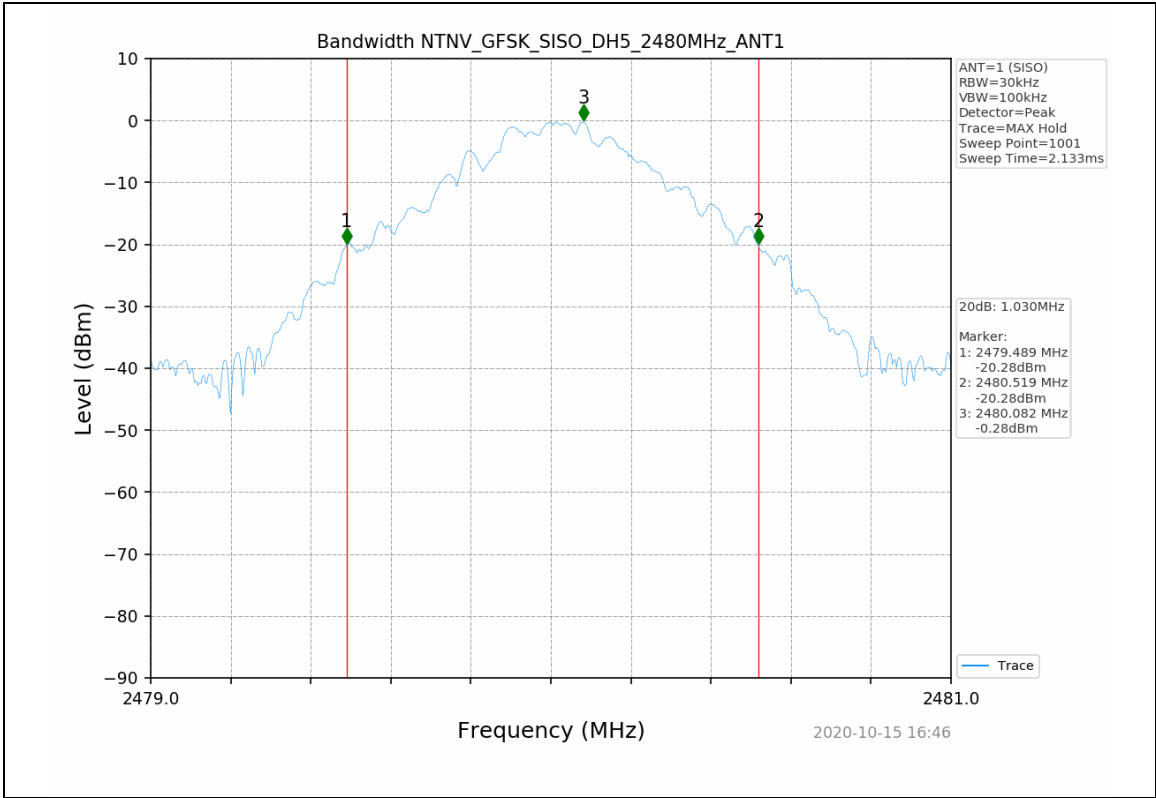
1.1 Test Result

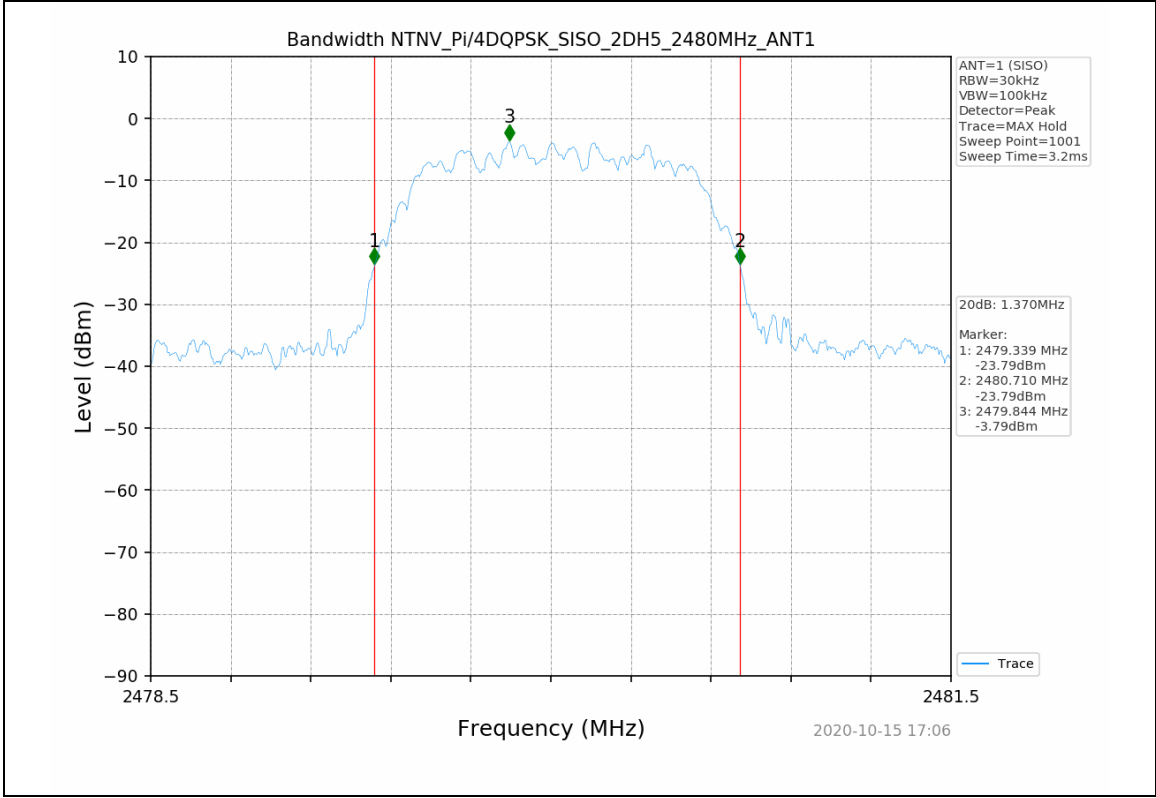
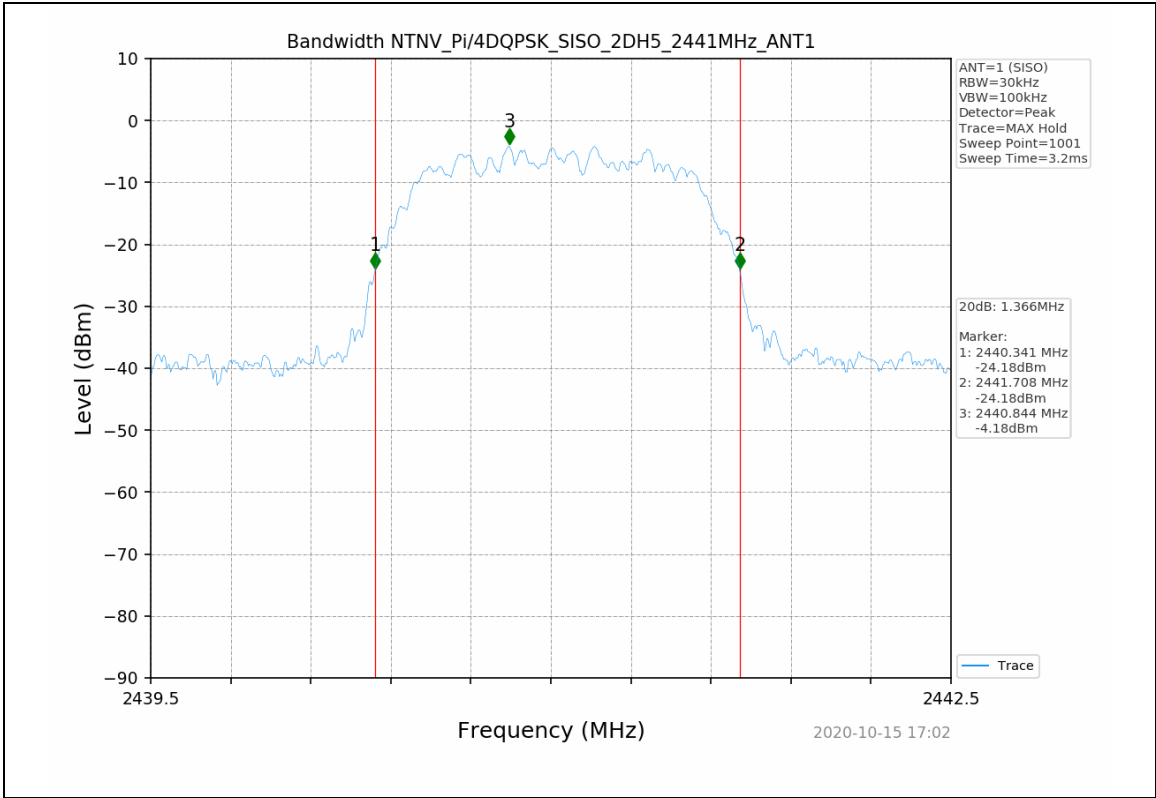
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth		Verdict
				Test Result (MHz)		
GFSK	2402	SISO	1	1.027		PASS
	2441	SISO	1	1.032		PASS
	2480	SISO	1	1.030		PASS
Pi/4DQPSK	2402	SISO	1	1.362		PASS
	2441	SISO	1	1.366		PASS
	2480	SISO	1	1.370		PASS
8DPSK	2402	SISO	1	1.345		PASS
	2441	SISO	1	1.346		PASS
	2480	SISO	1	1.349		PASS

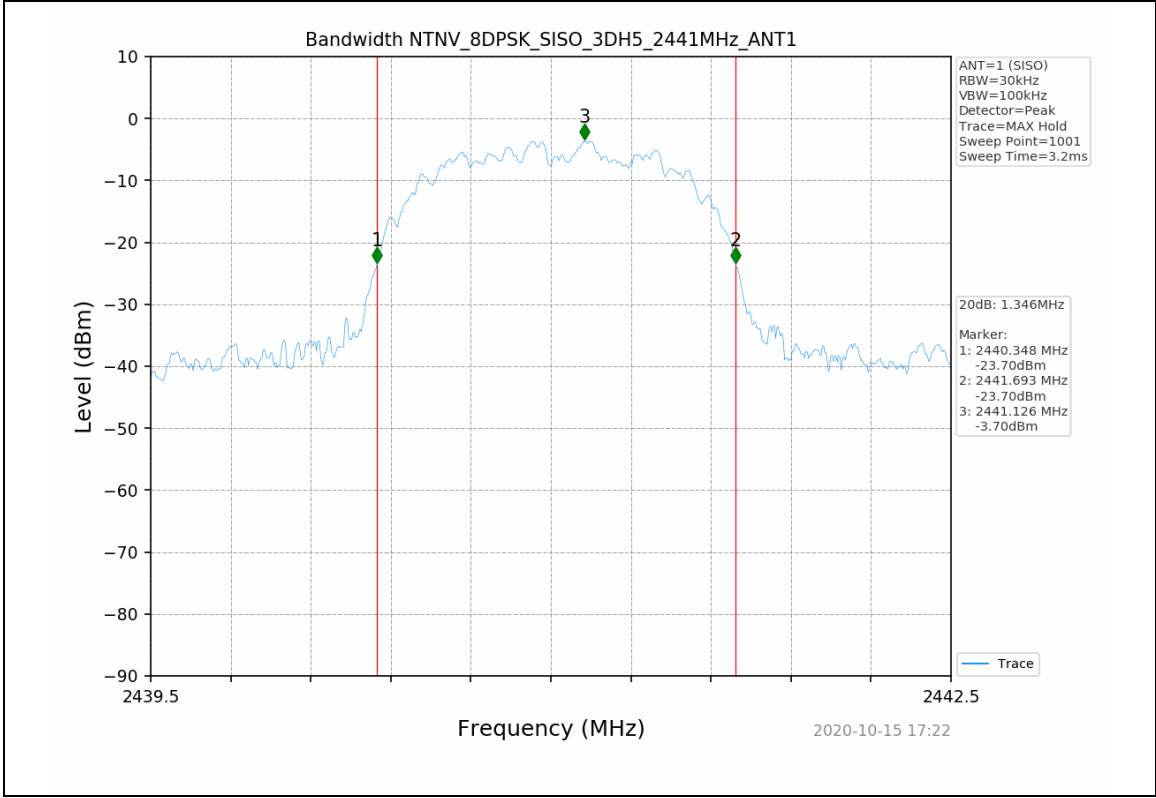
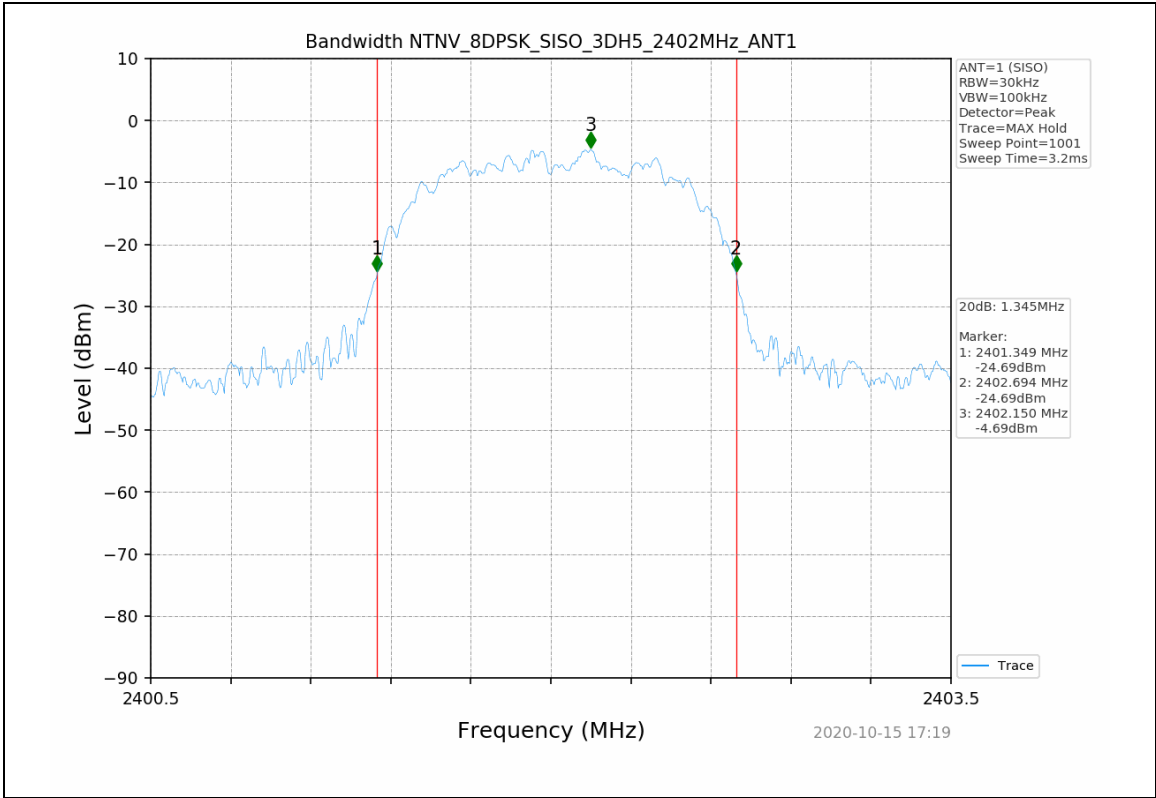
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.906	Only for Report Use
	2441	SISO	1	0.904	Only for Report Use
	2480	SISO	1	0.903	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.199	Only for Report Use
	2441	SISO	1	1.205	Only for Report Use
	2480	SISO	1	1.209	Only for Report Use
8DPSK	2402	SISO	1	1.210	Only for Report Use
	2441	SISO	1	1.215	Only for Report Use
	2480	SISO	1	1.218	Only for Report Use

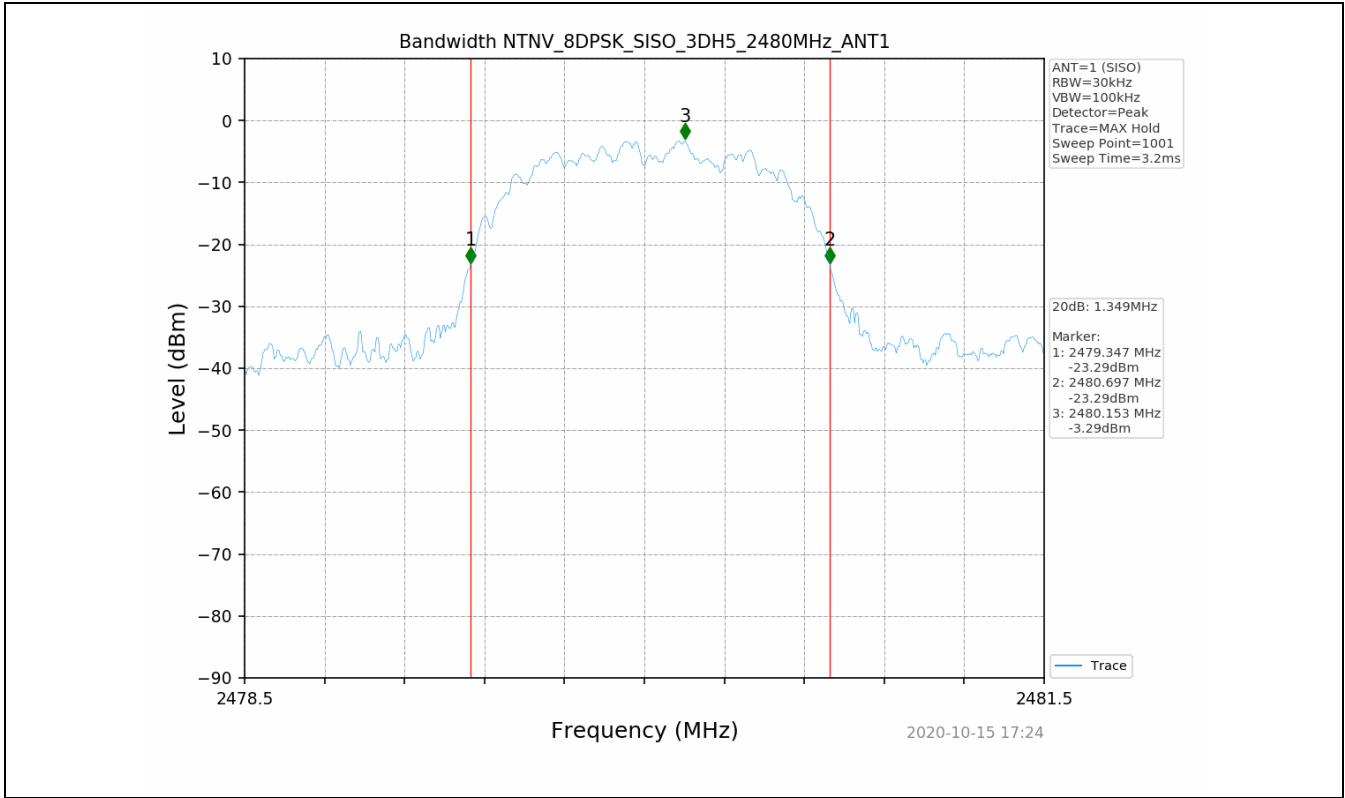
1.2 Test Graph - 20dB Bandwidth



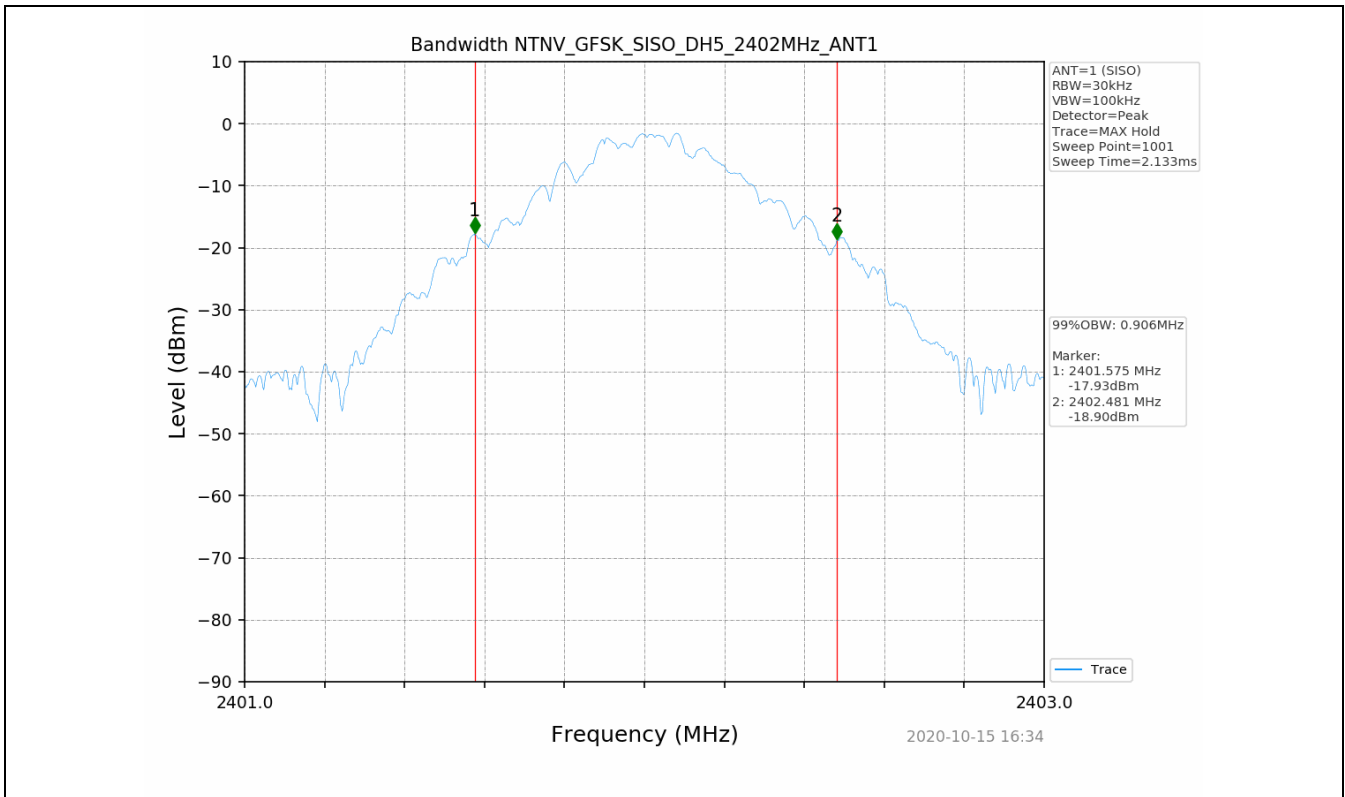


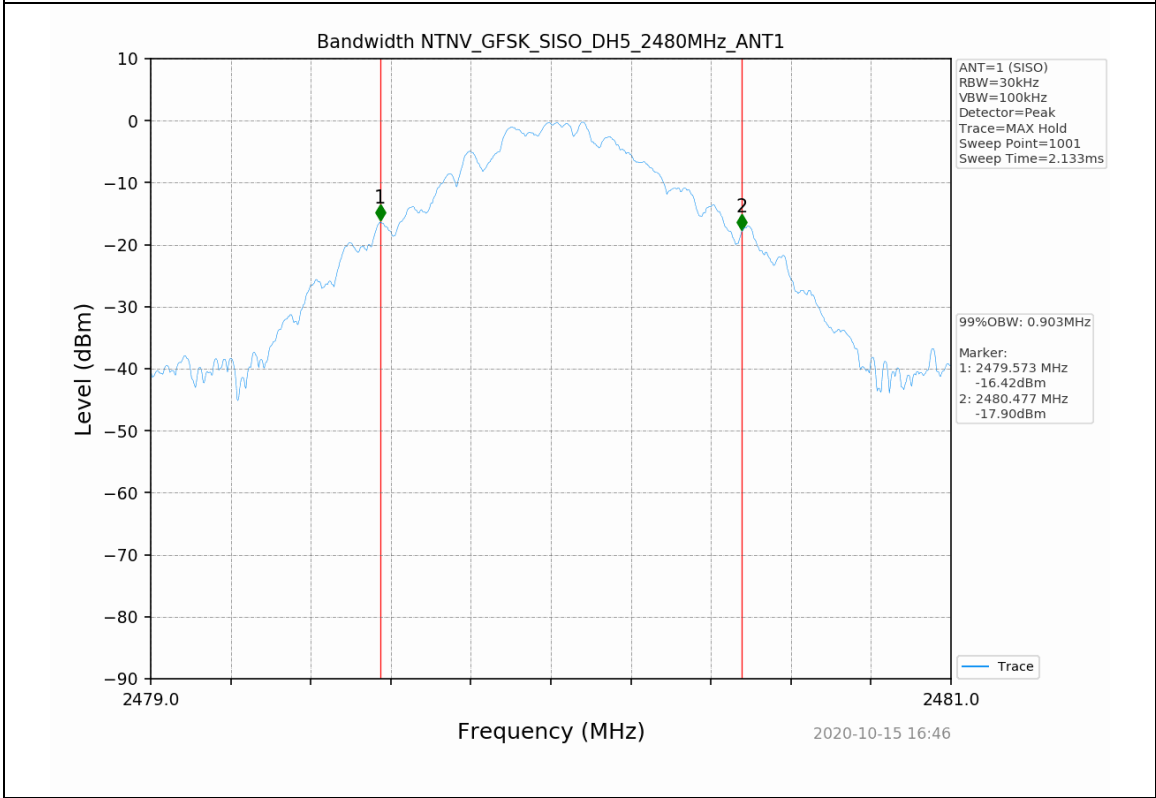
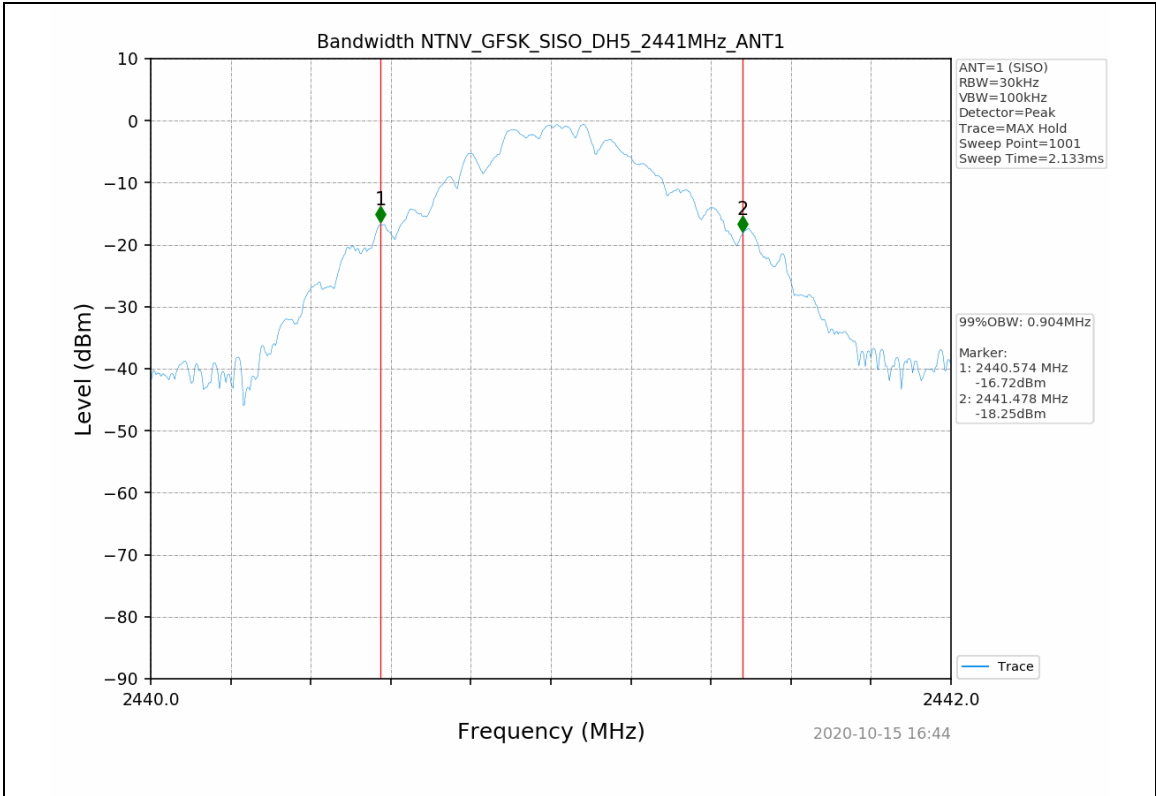


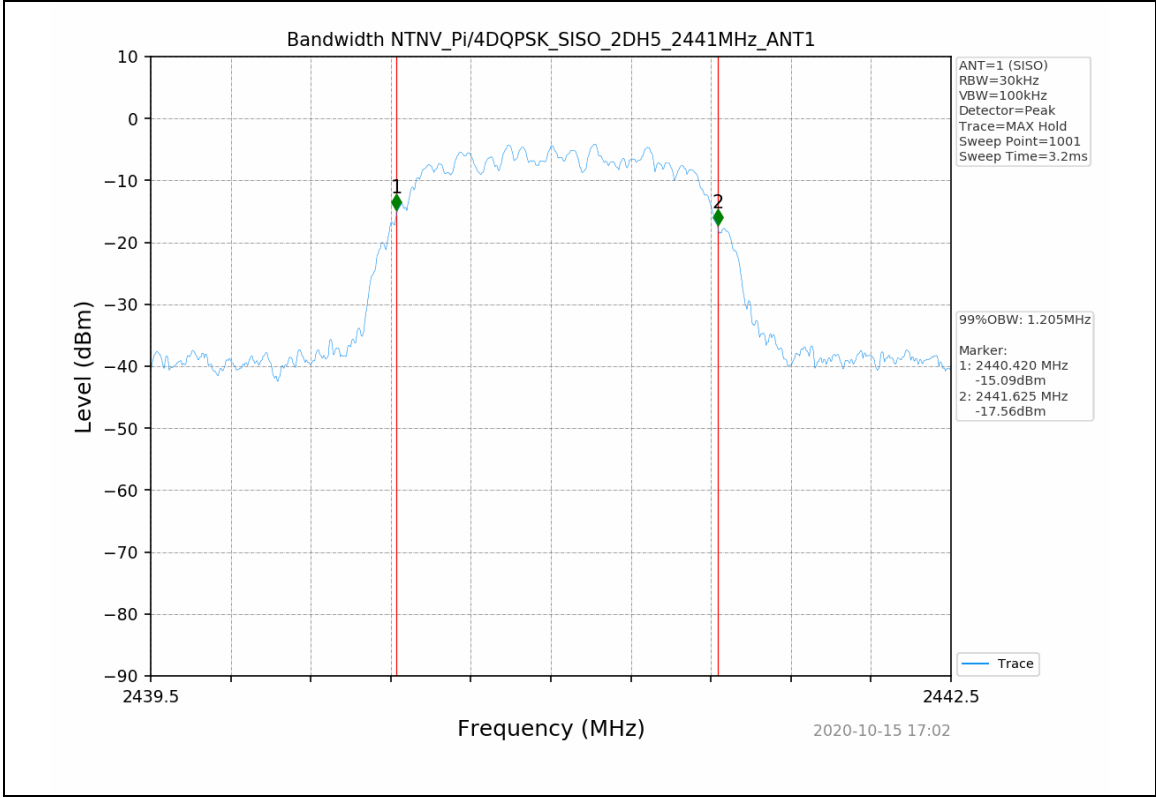
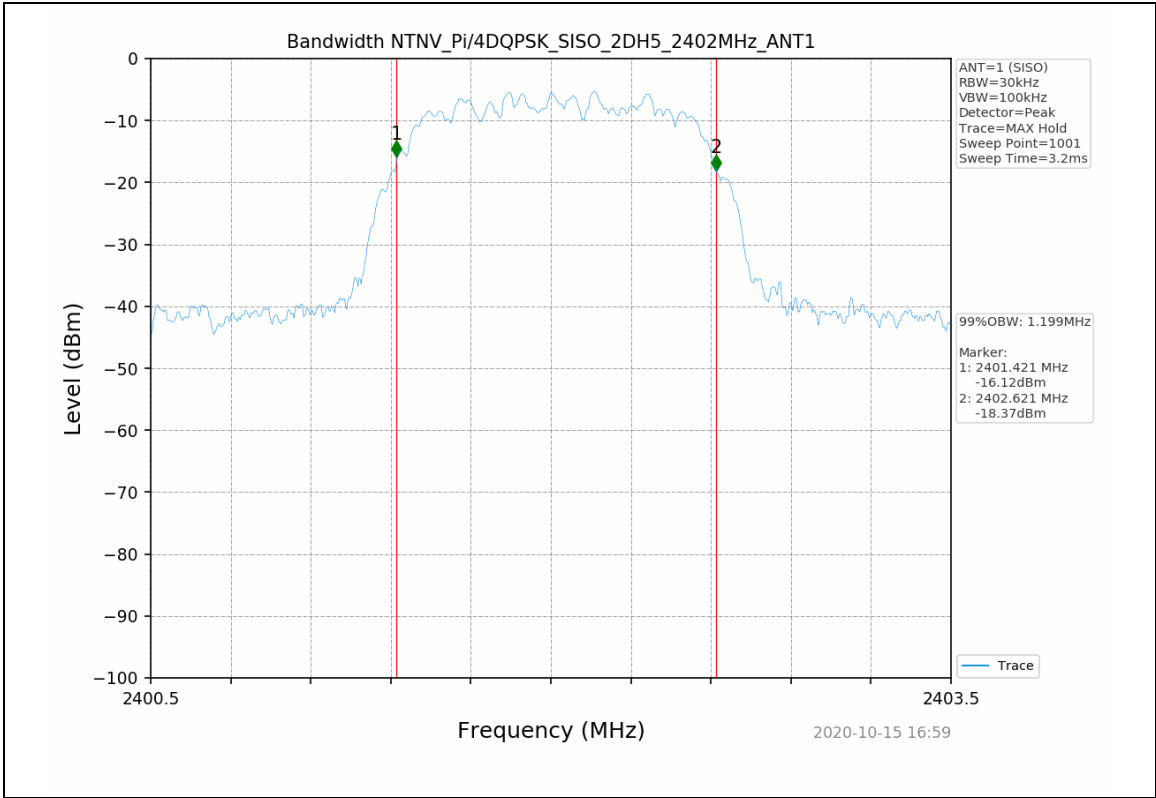


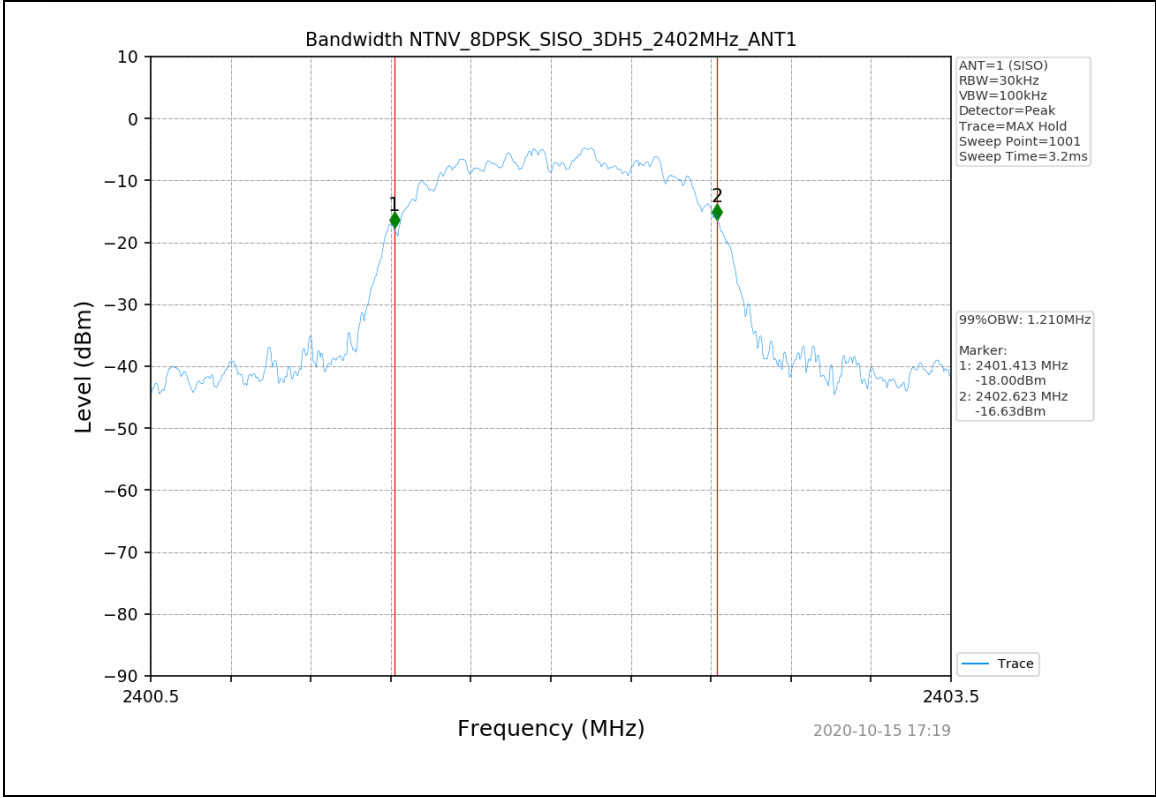
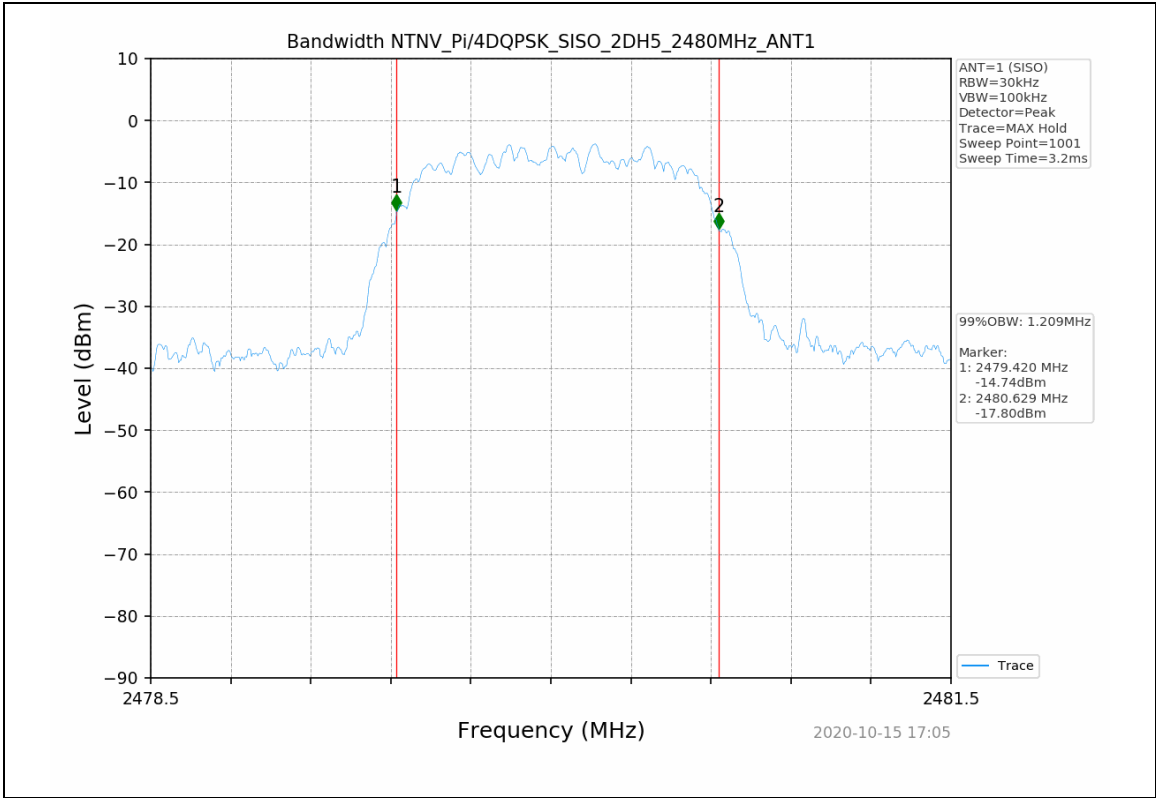


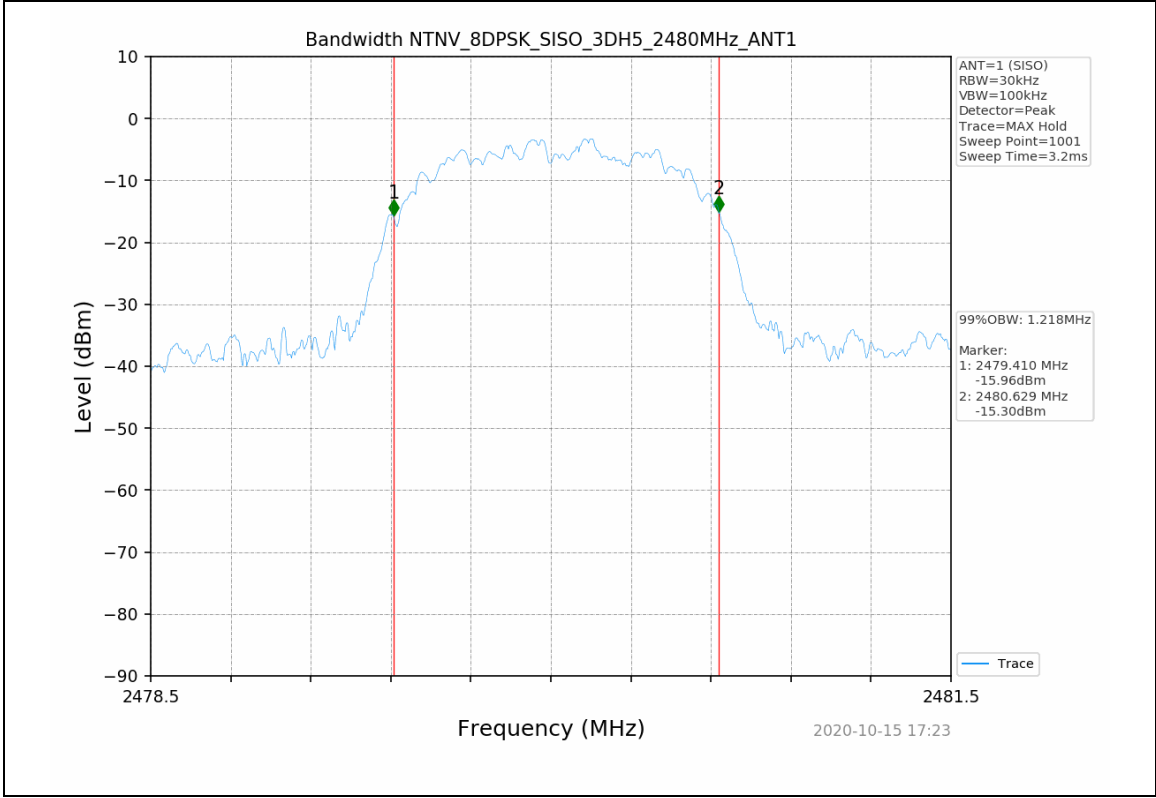
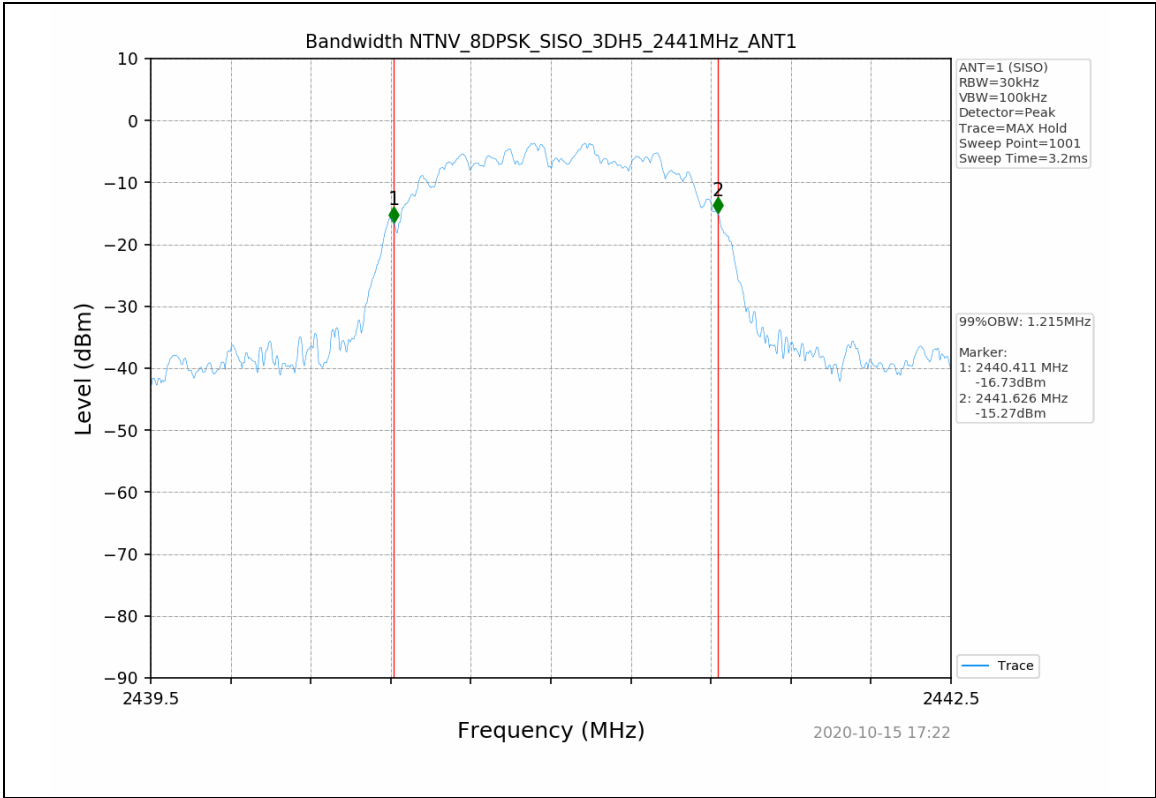
1.3 Test Graph - 99% Occupied Bandwidth









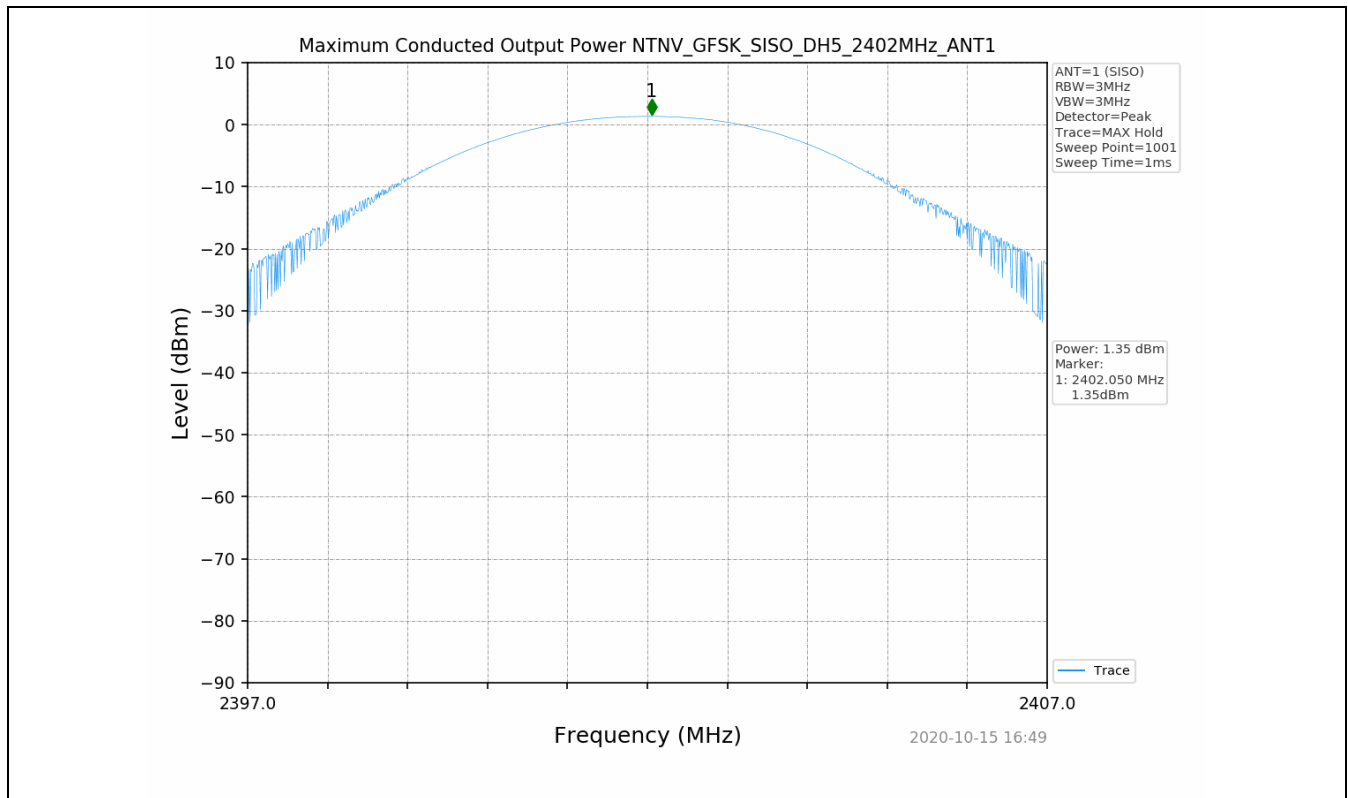


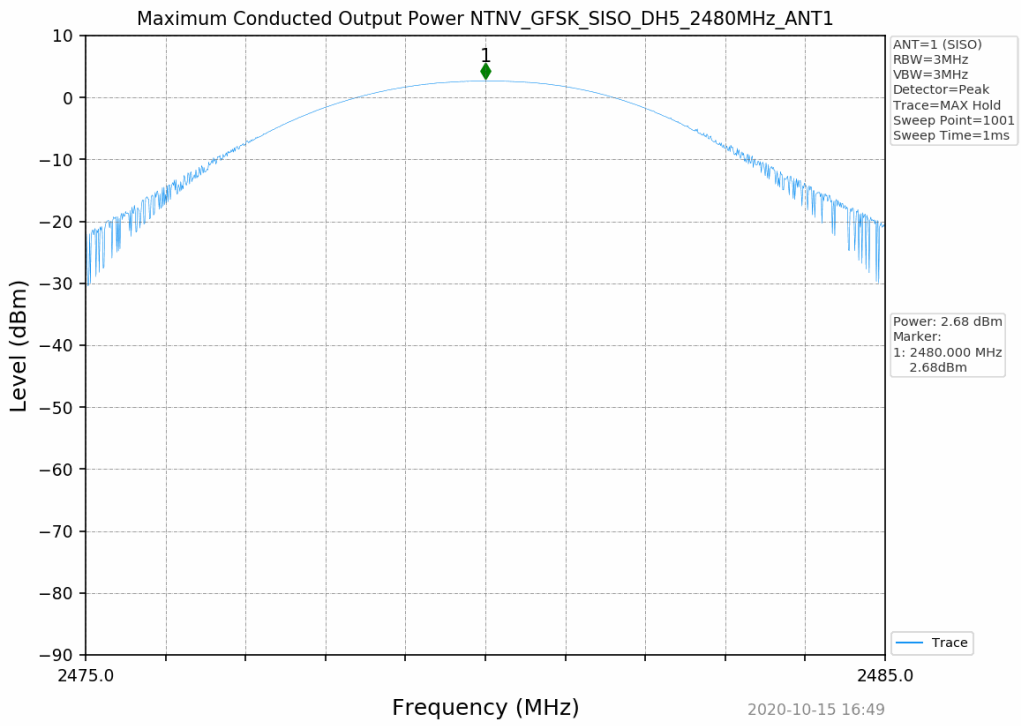
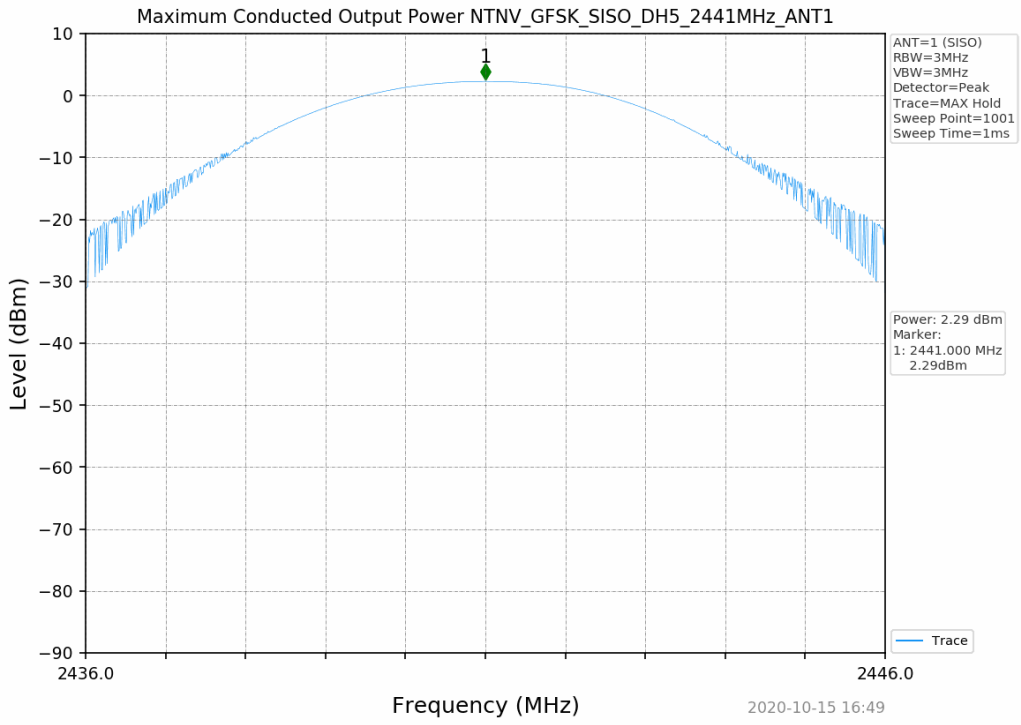
2. Maximum Conducted Output Power

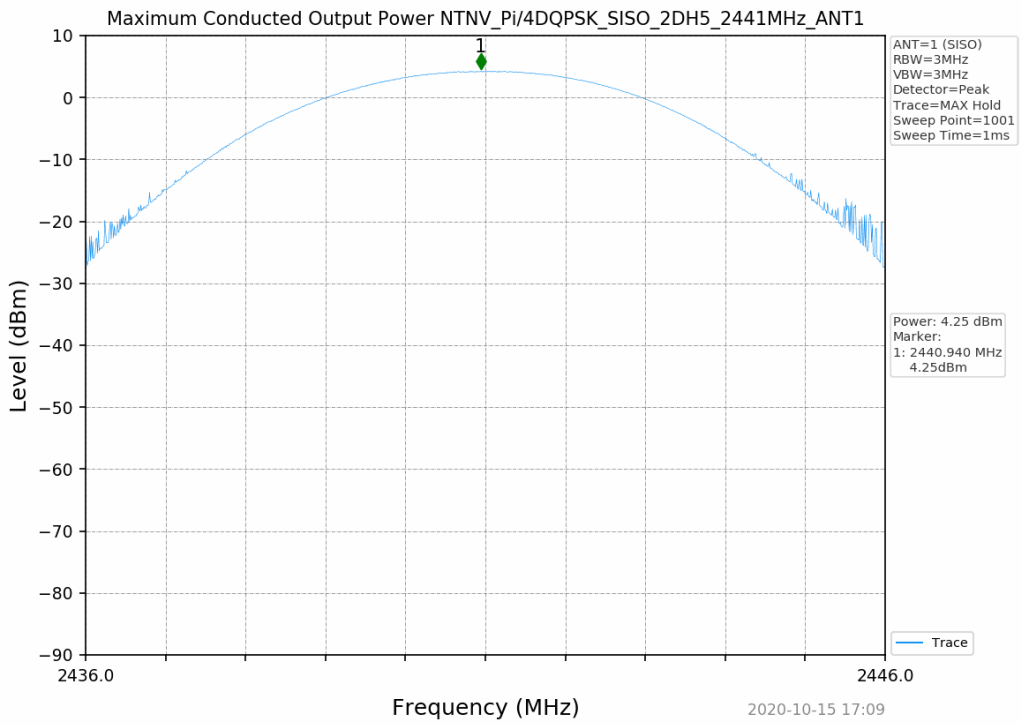
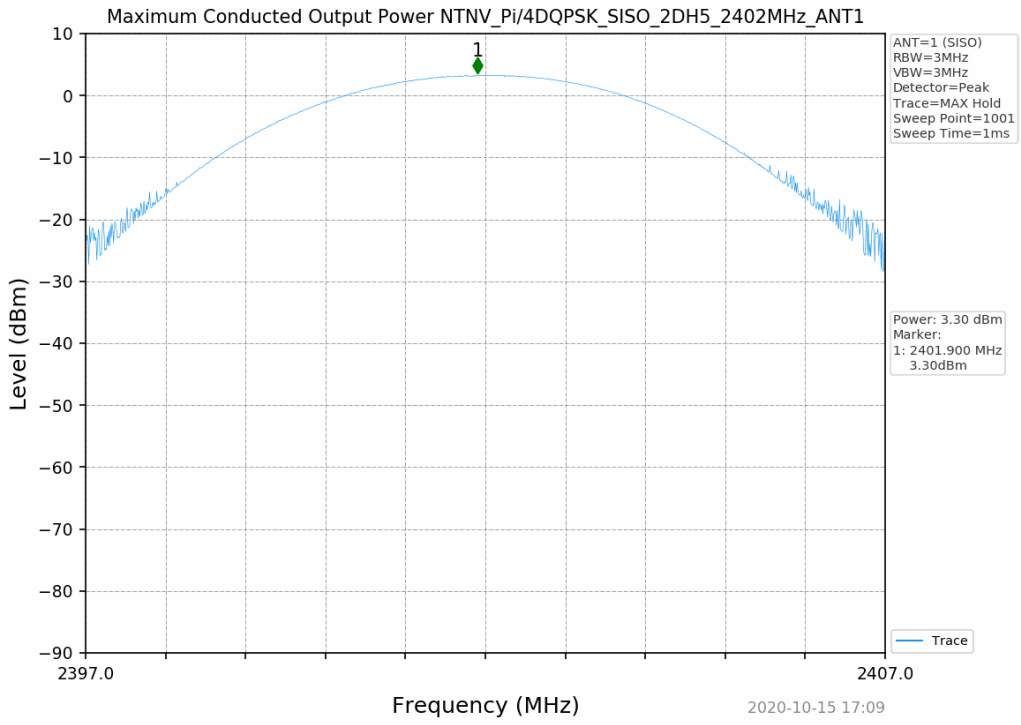
2.1 Test Result

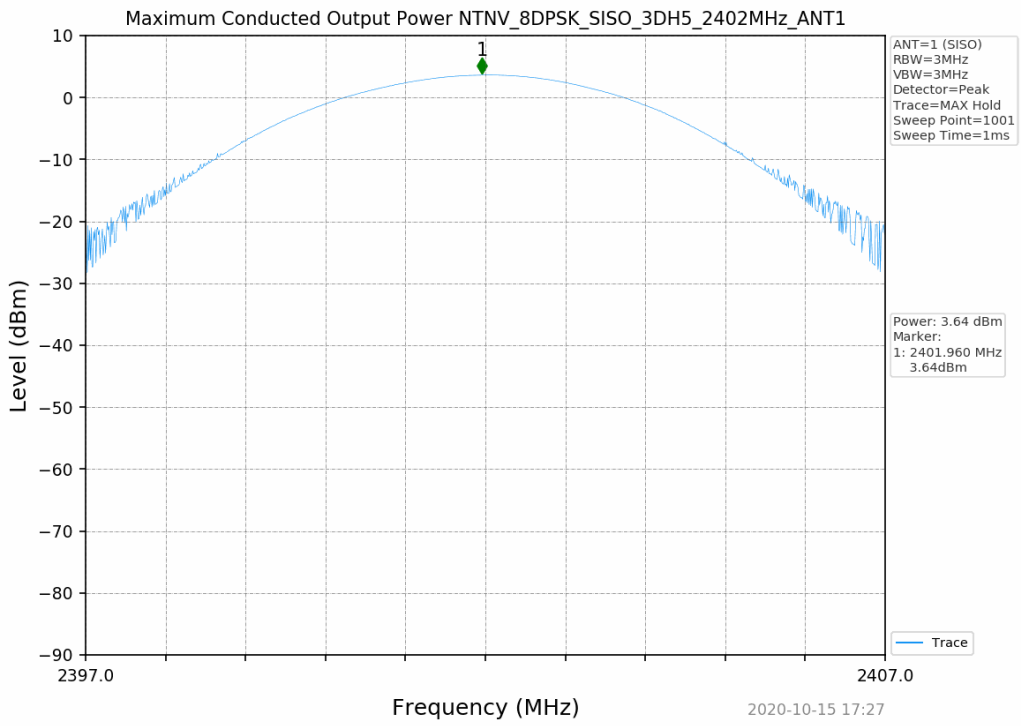
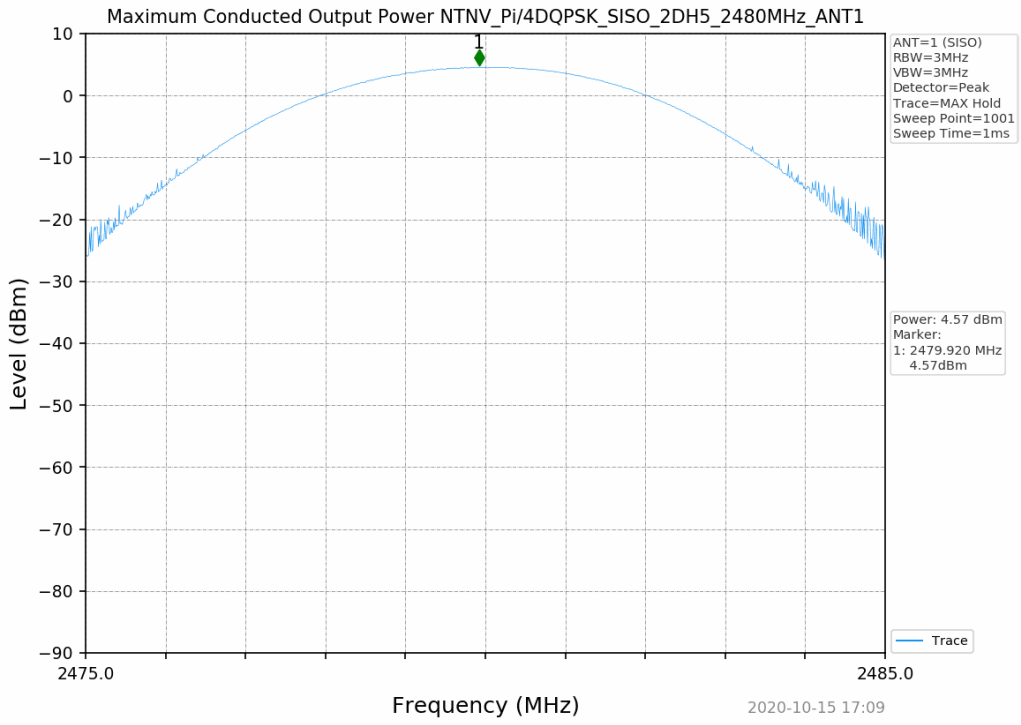
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	1.35	20.97	PASS
	2441	SISO	2.29	20.97	PASS
	2480	SISO	2.68	20.97	PASS
Pi/4DQPSK	2402	SISO	3.30	20.97	PASS
	2441	SISO	4.25	20.97	PASS
	2480	SISO	4.57	20.97	PASS
8DPSK	2402	SISO	3.64	20.97	PASS
	2441	SISO	4.61	20.97	PASS
	2480	SISO	4.90	20.97	PASS

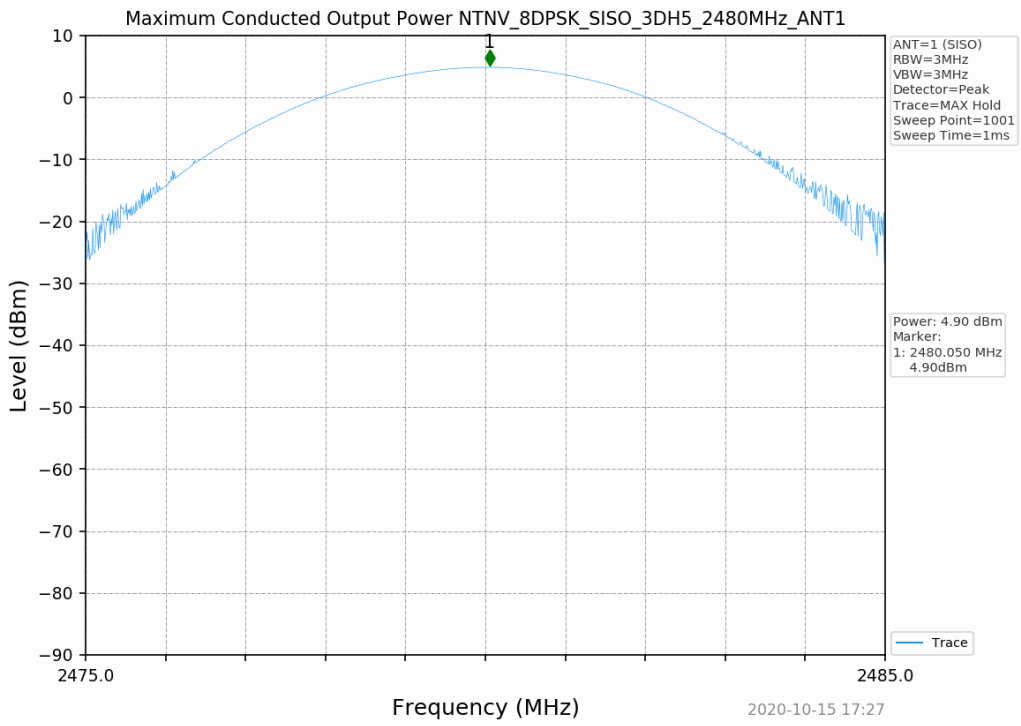
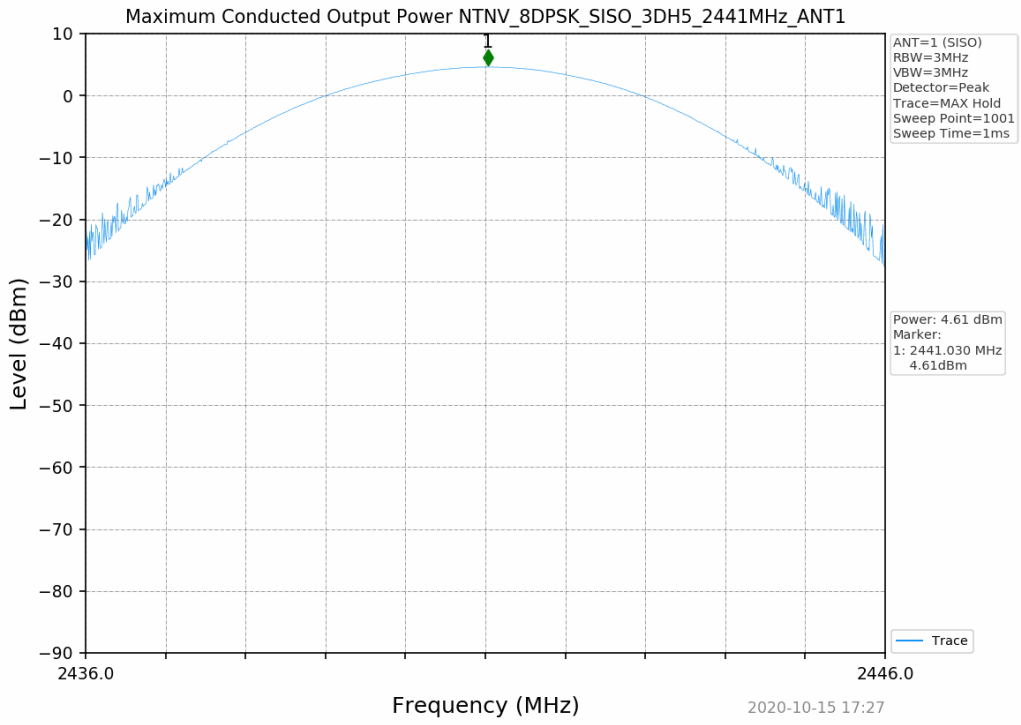
2.2 Test Graph









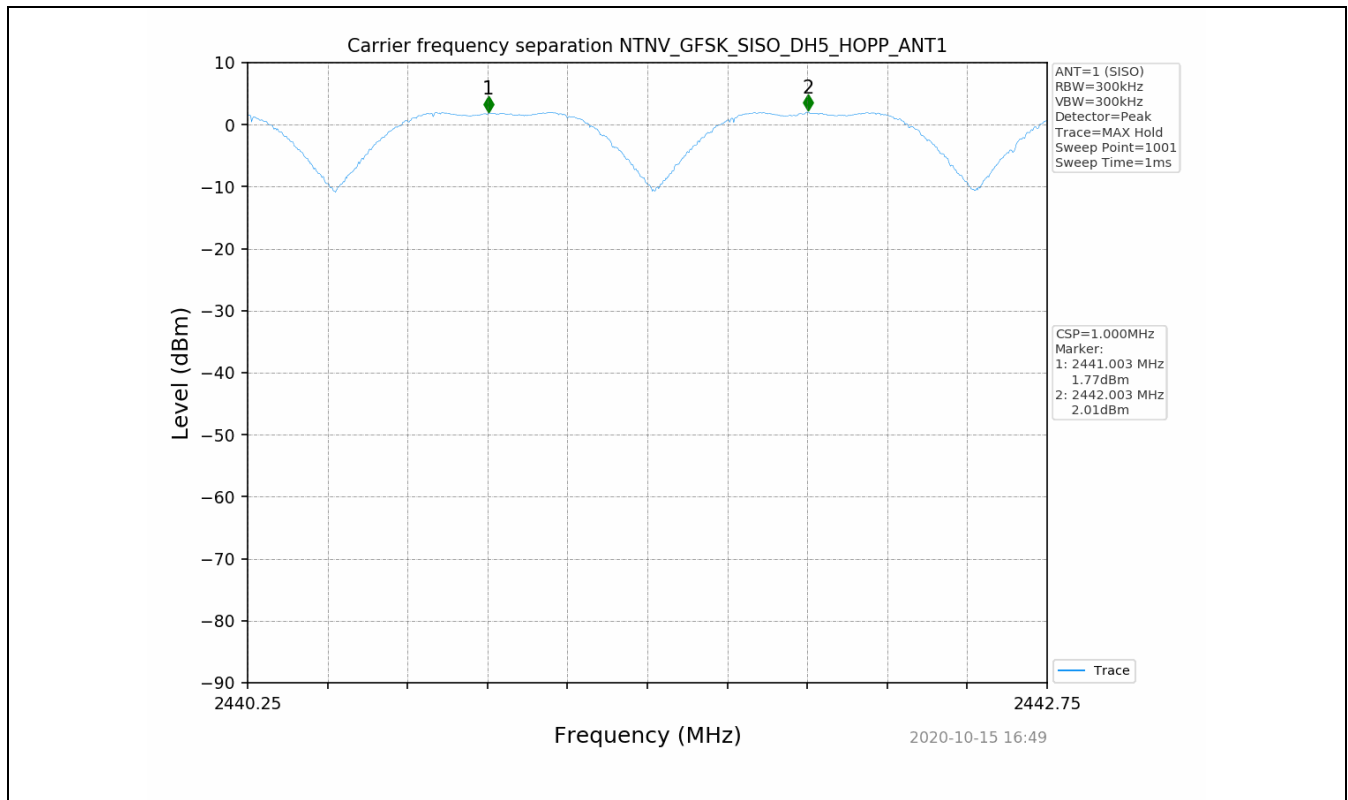


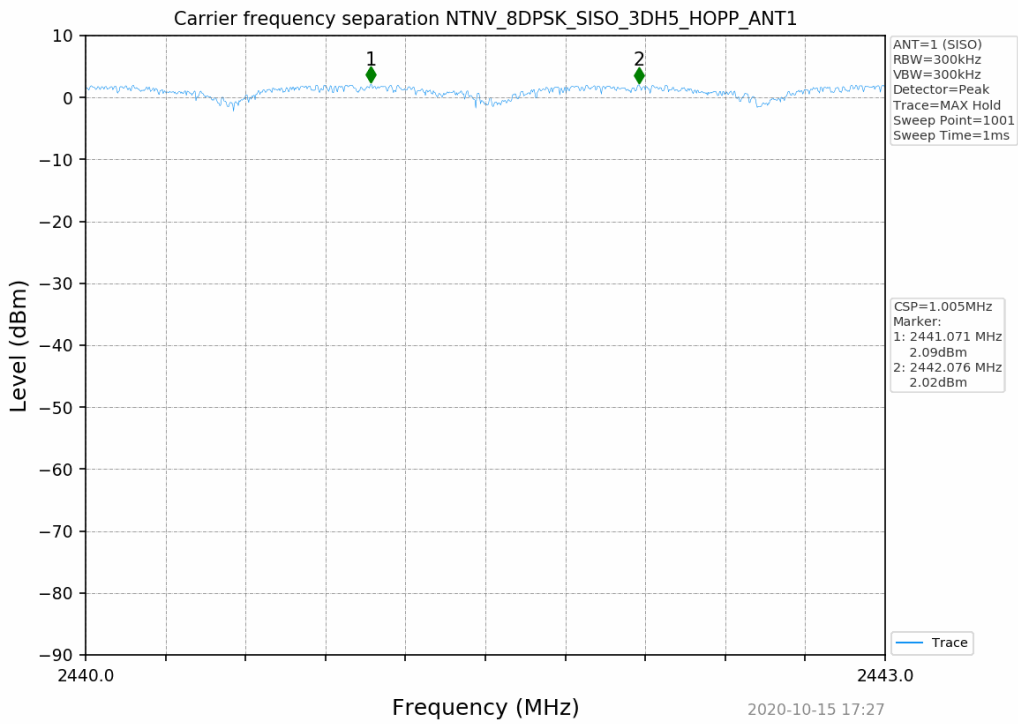
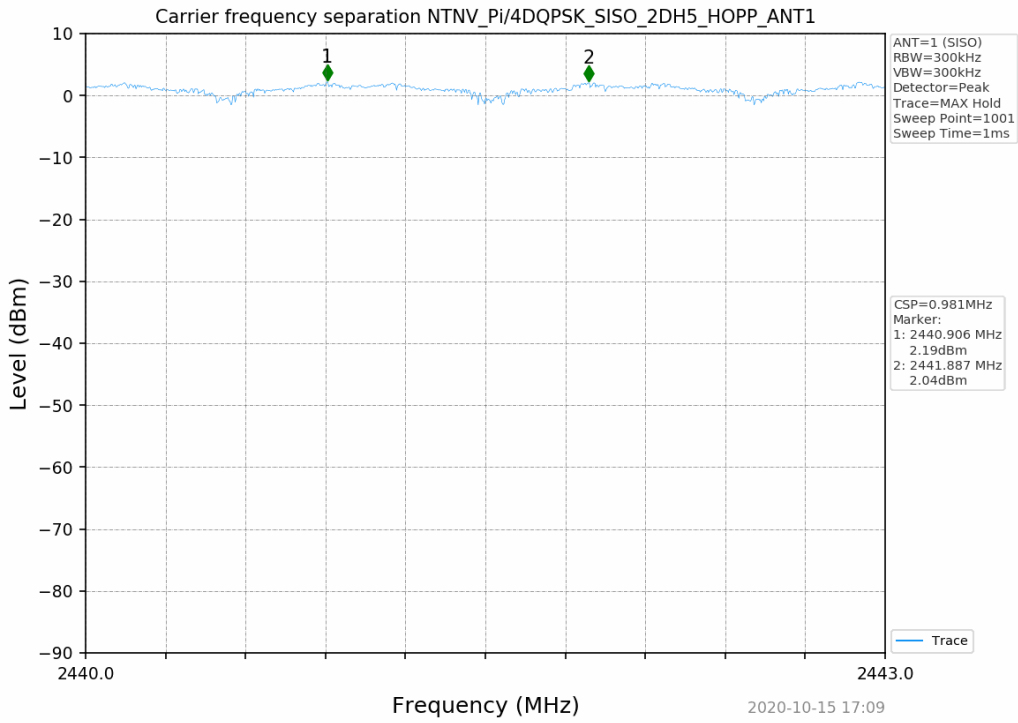
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	1.032	≥ 0.688	PASS
Pi/4DQPSK	SISO	1	0.981	1.370	≥ 0.913	PASS
8DPSK	SISO	1	1.005	1.349	≥ 0.899	PASS

3.2 Test Graph



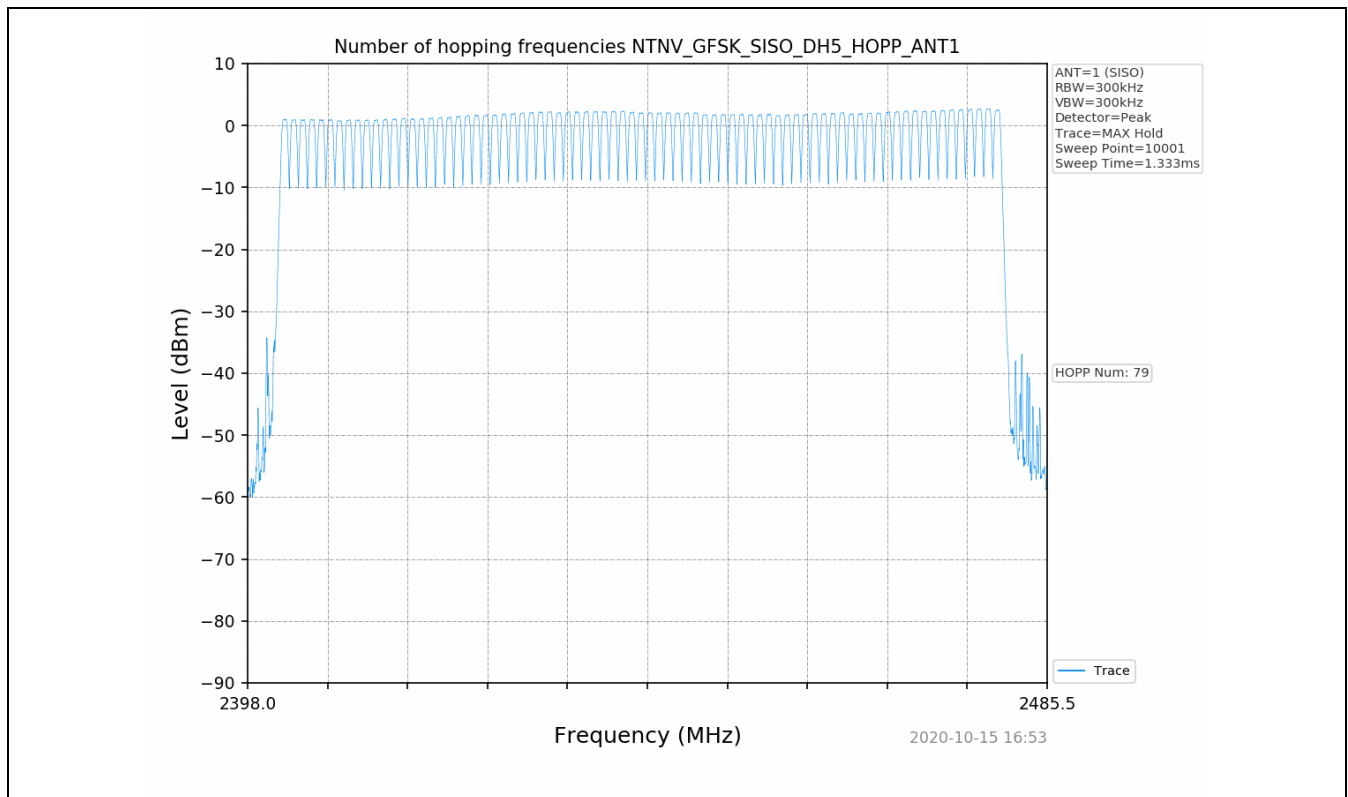


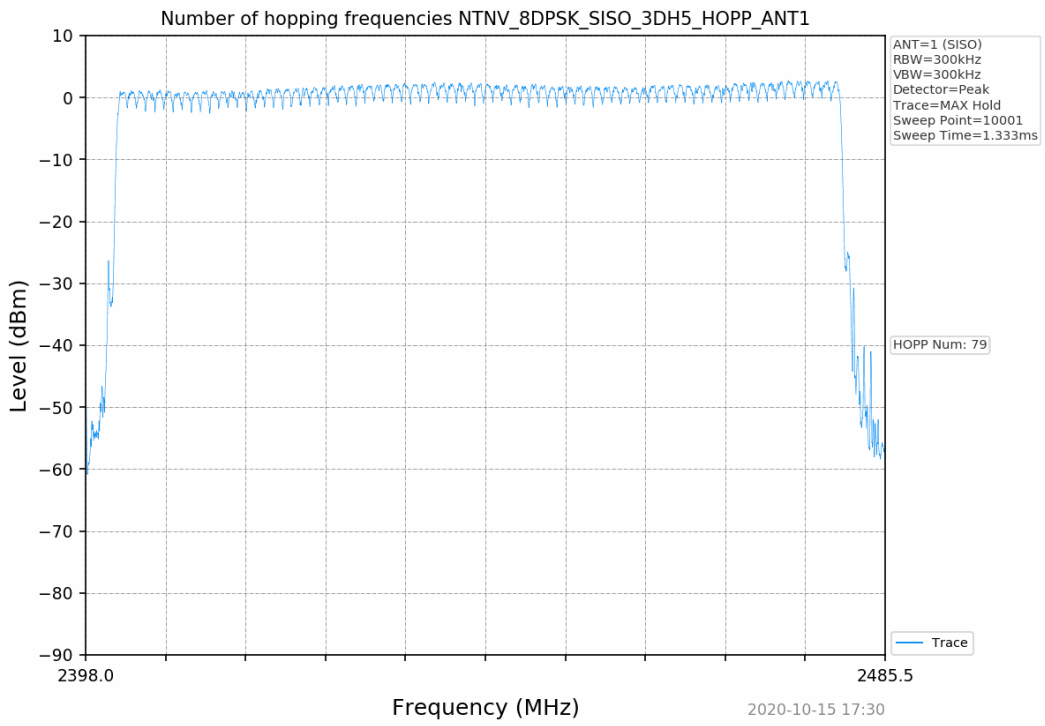
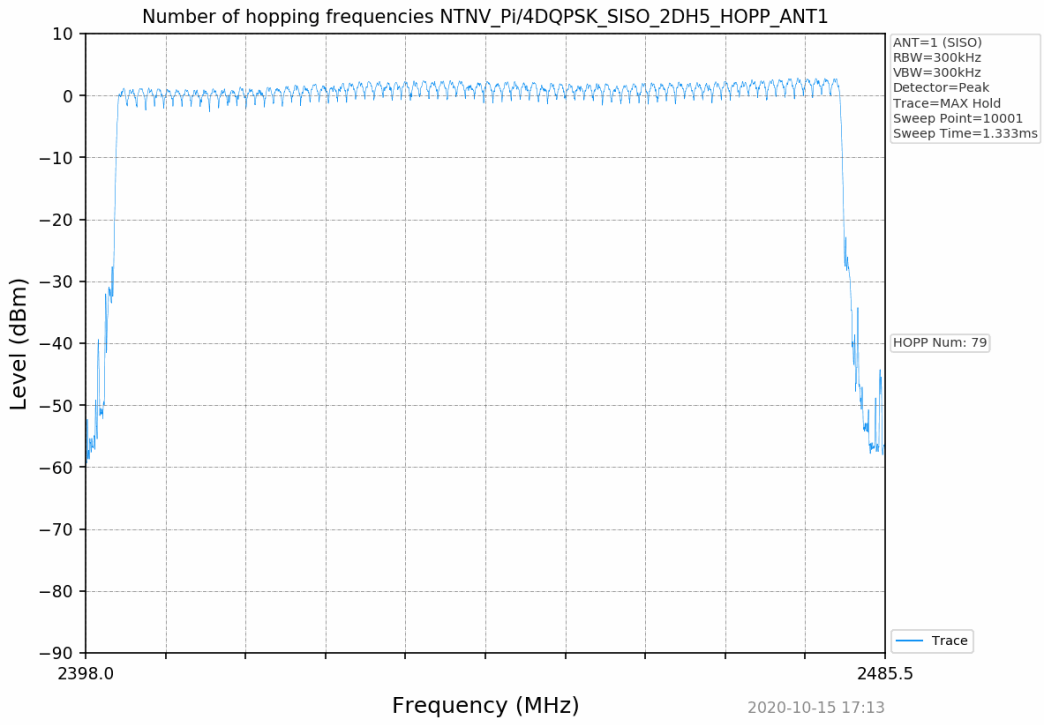
4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥ 15	PASS
Pi/4DQPSK	SISO	1	79	≥ 15	PASS
8DPSK	SISO	1	79	≥ 15	PASS

4.2 Test Graph



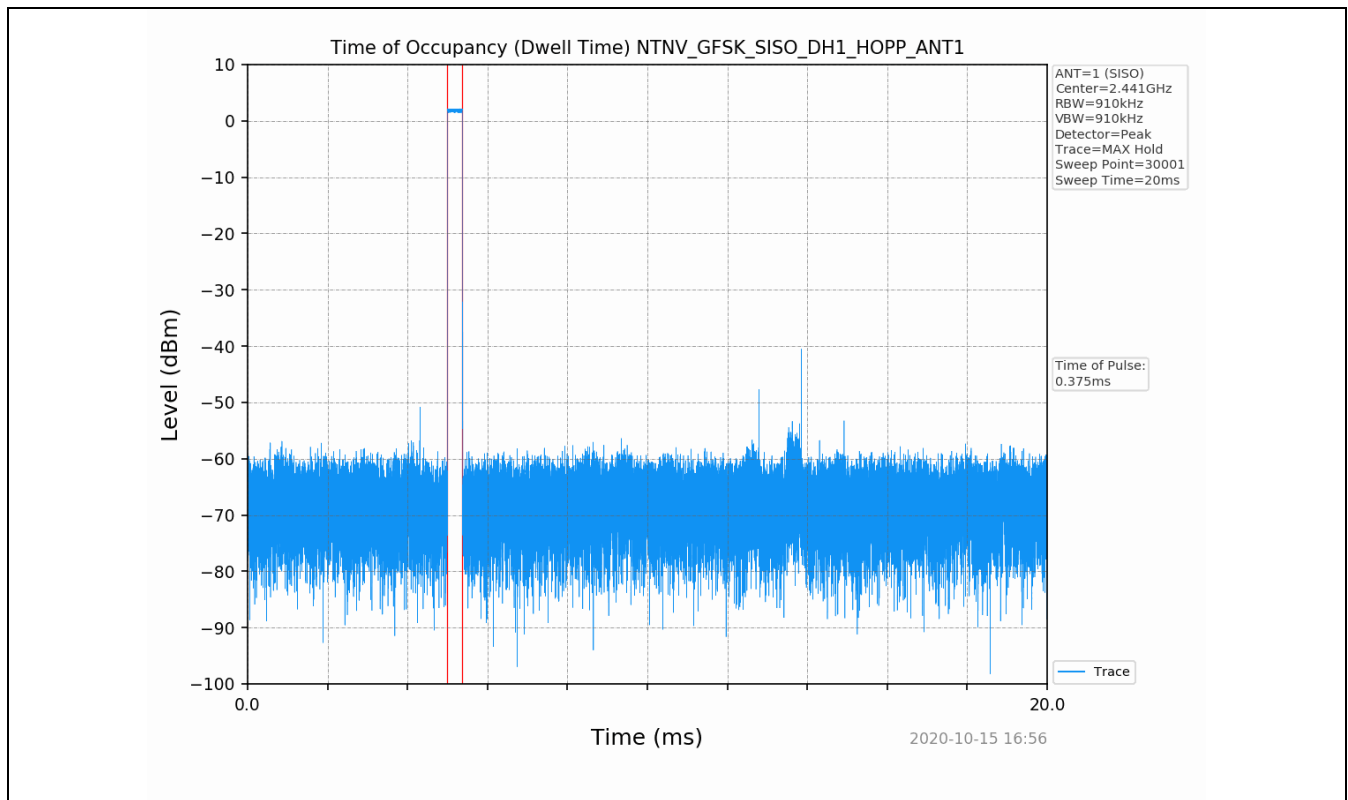


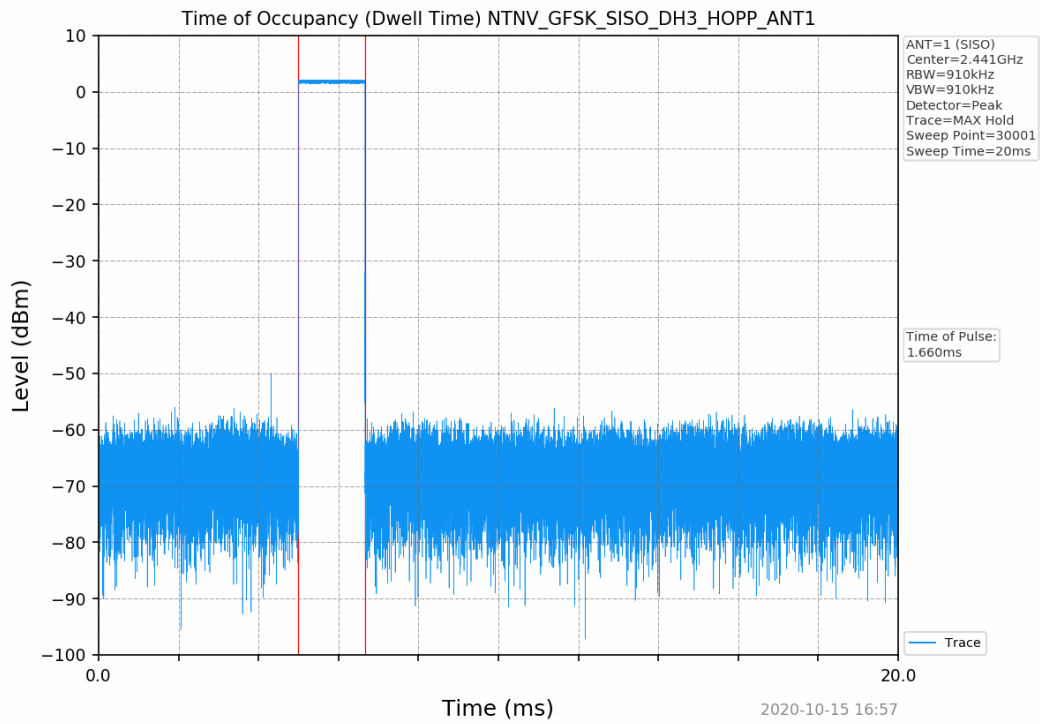
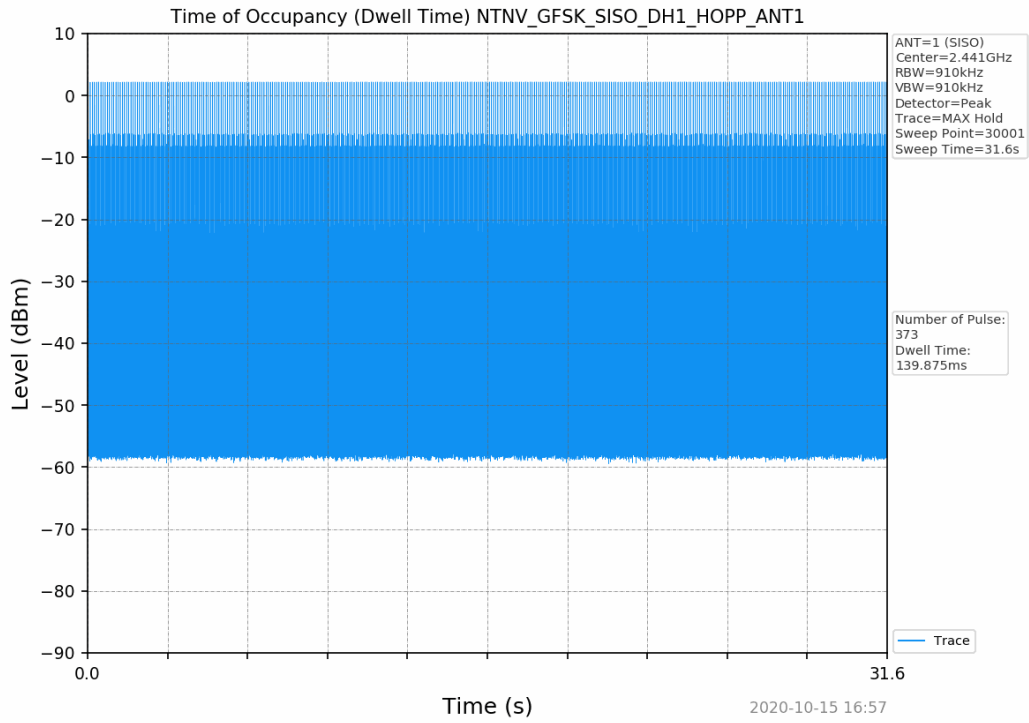
5. Time of Occupancy (Dwell Time)

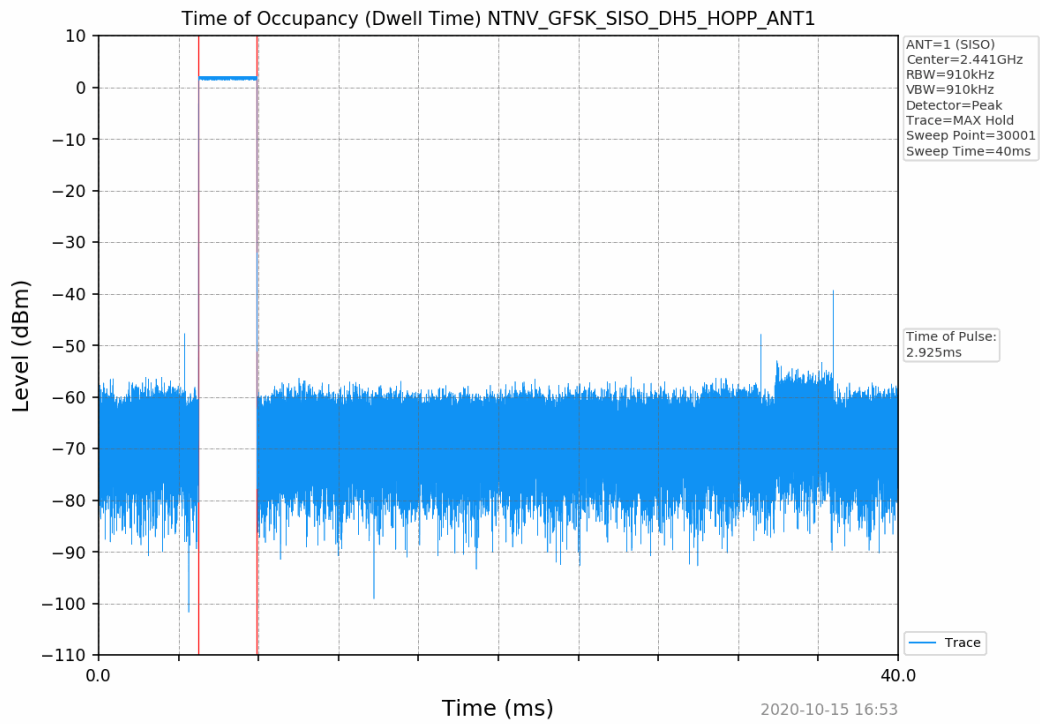
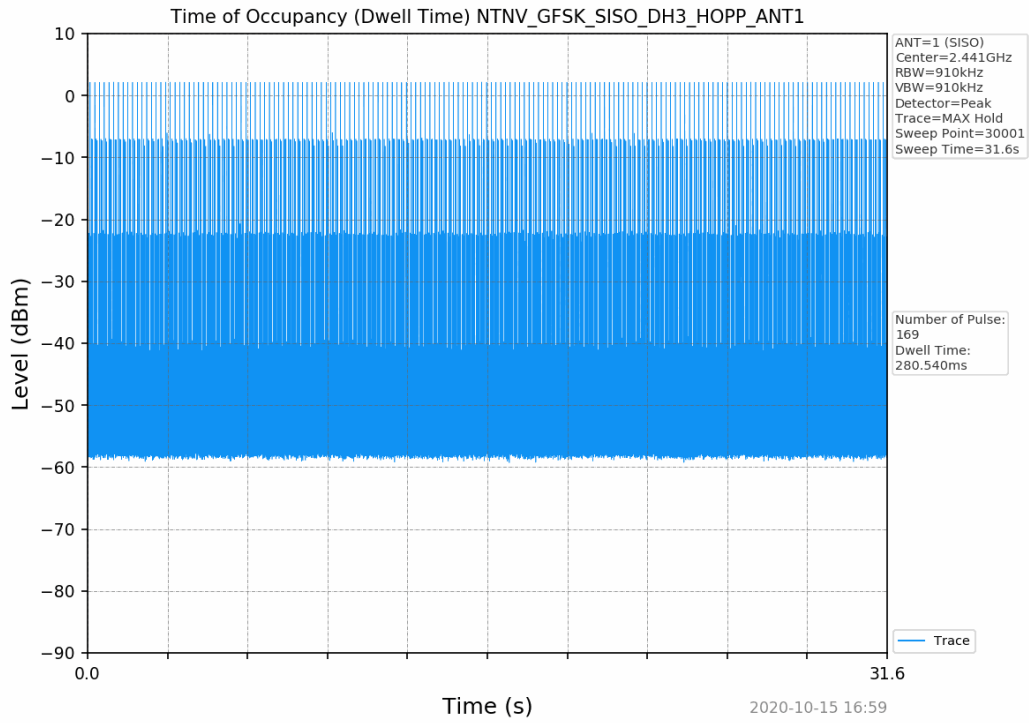
5.1 Test Result

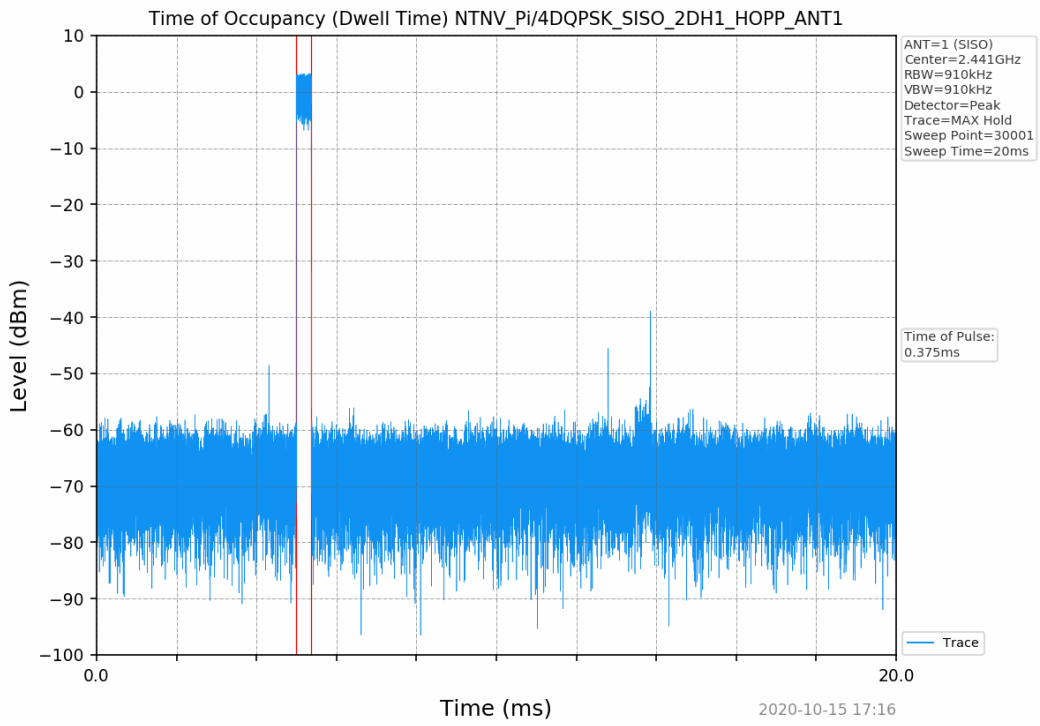
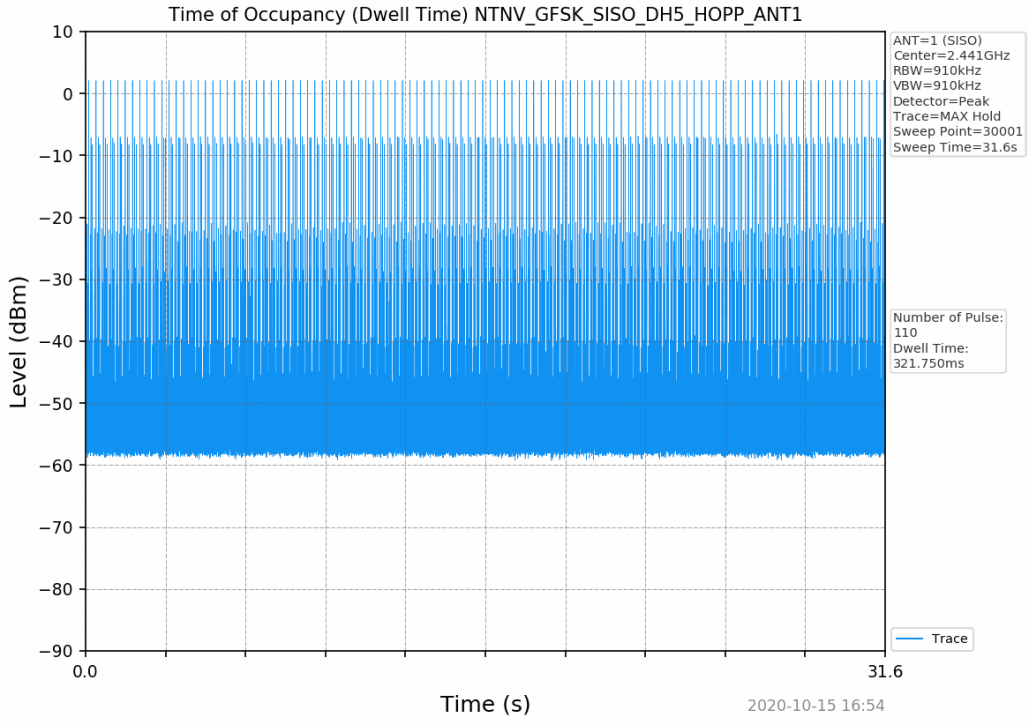
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.375	31.6	373	139.875	≤400	PASS
	DH3	SISO	1	1.660	31.6	169	280.540	≤400	PASS
	DH5	SISO	1	2.925	31.6	110	321.750	≤400	PASS
Pi/4D QPS K	2DH1	SISO	1	0.375	31.6	373	139.875	≤400	PASS
	2DH3	SISO	1	1.651	31.6	169	279.019	≤400	PASS
	2DH5	SISO	1	2.927	31.6	109	319.043	≤400	PASS
8DPS K	3DH1	SISO	1	0.376	31.6	372	139.872	≤400	PASS
	3DH3	SISO	1	1.653	31.6	169	279.357	≤400	PASS
	3DH5	SISO	1	2.919	31.6	109	318.171	≤400	PASS

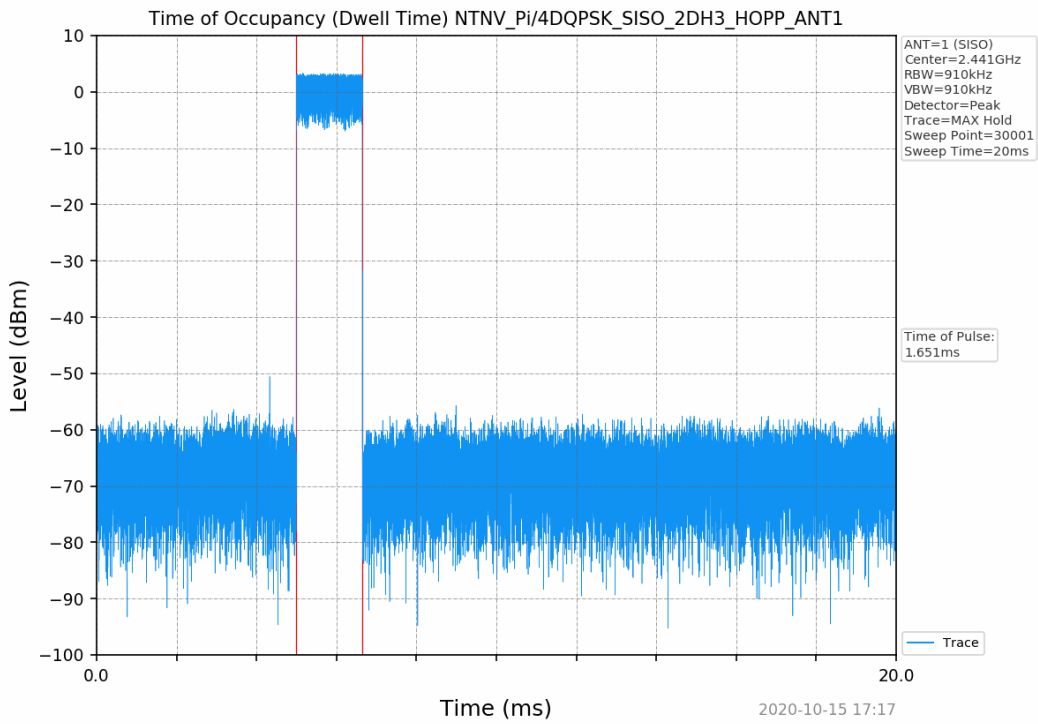
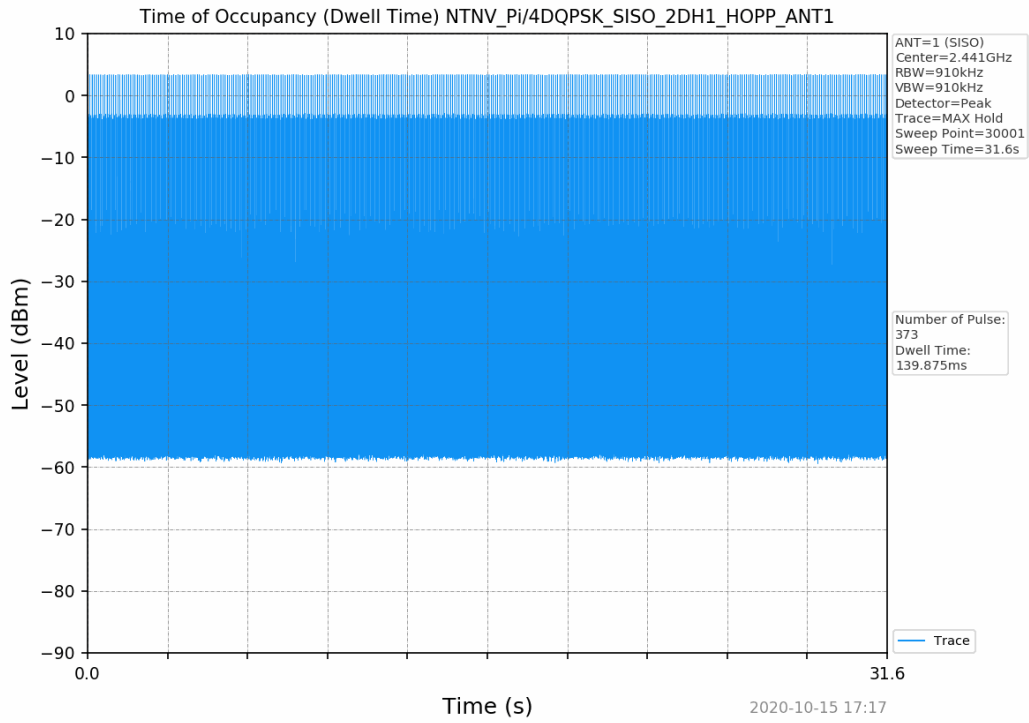
5.2 Test Graph

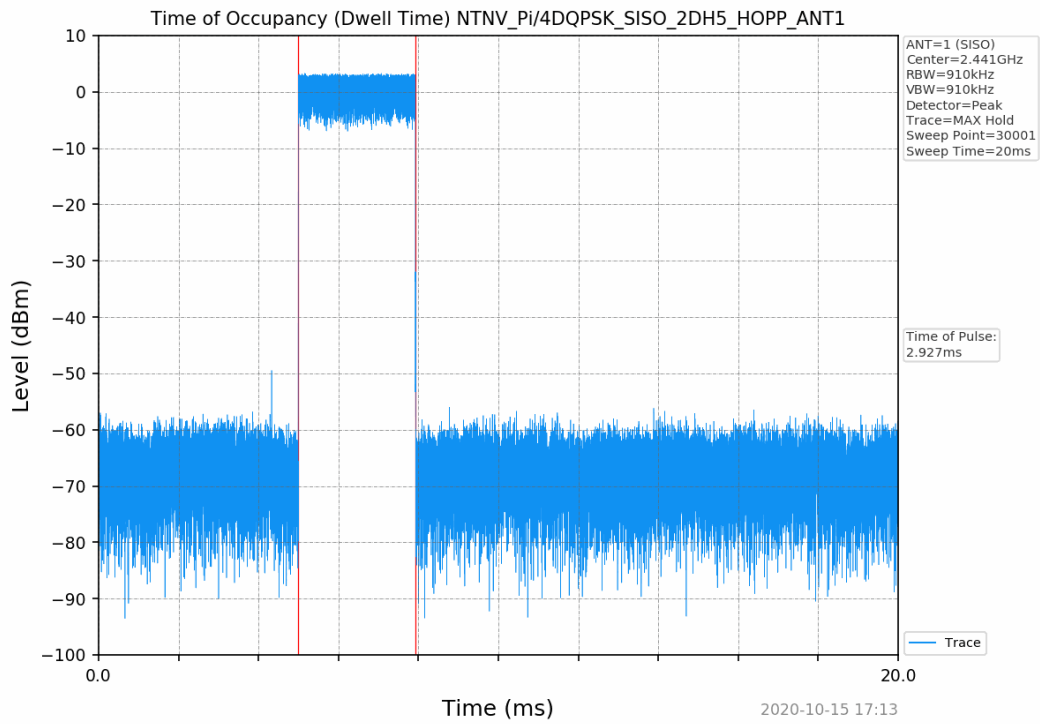
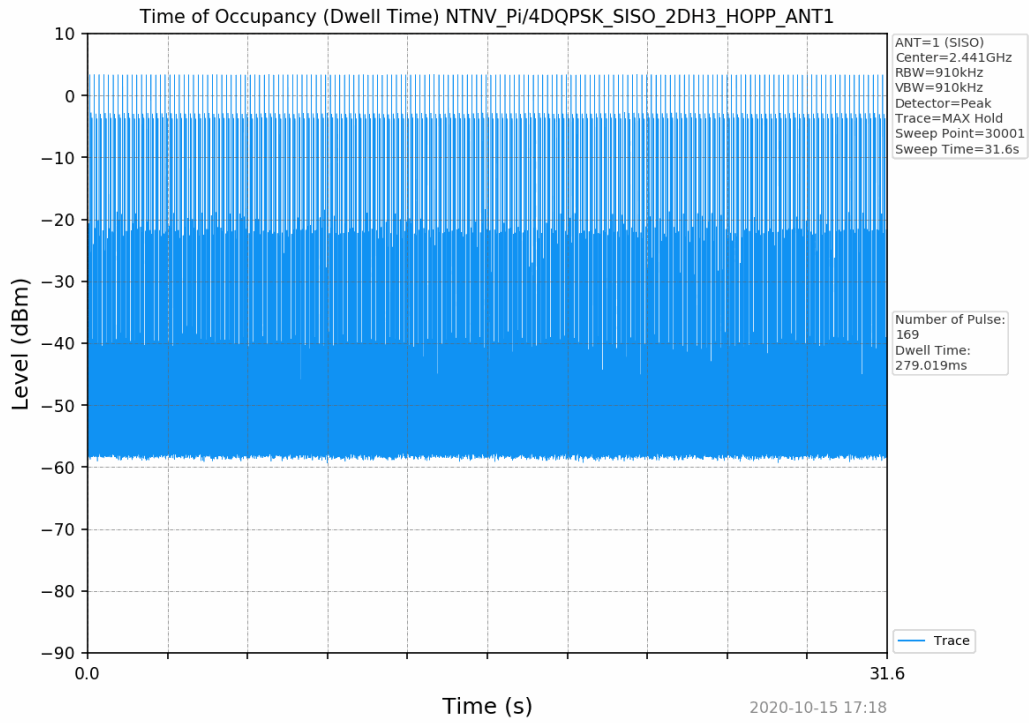


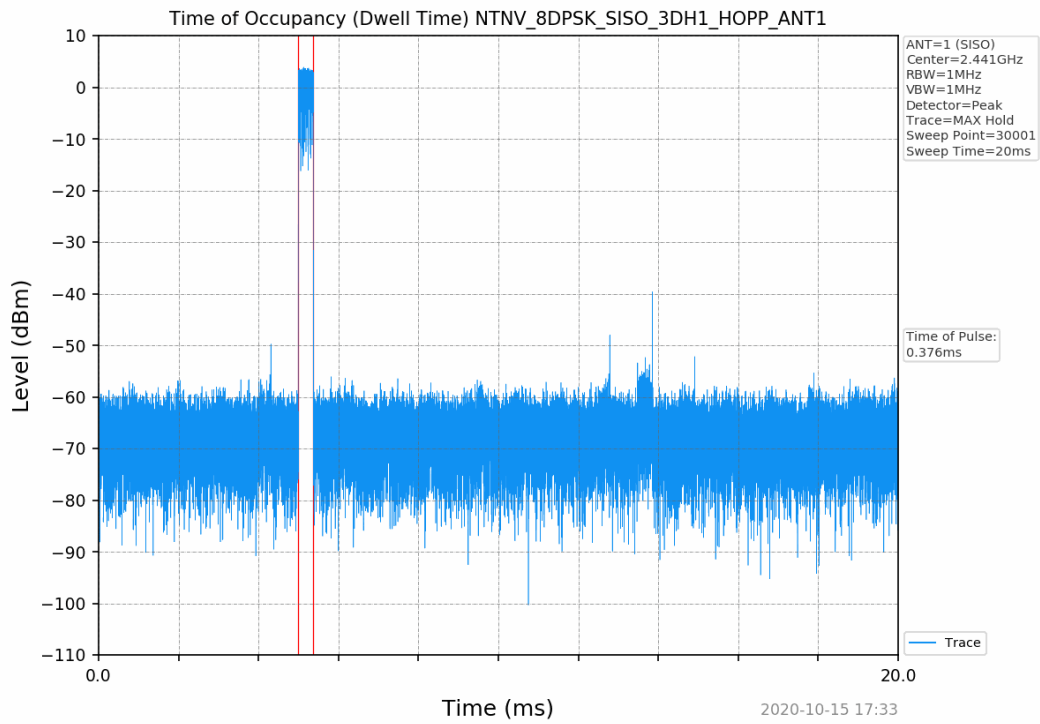
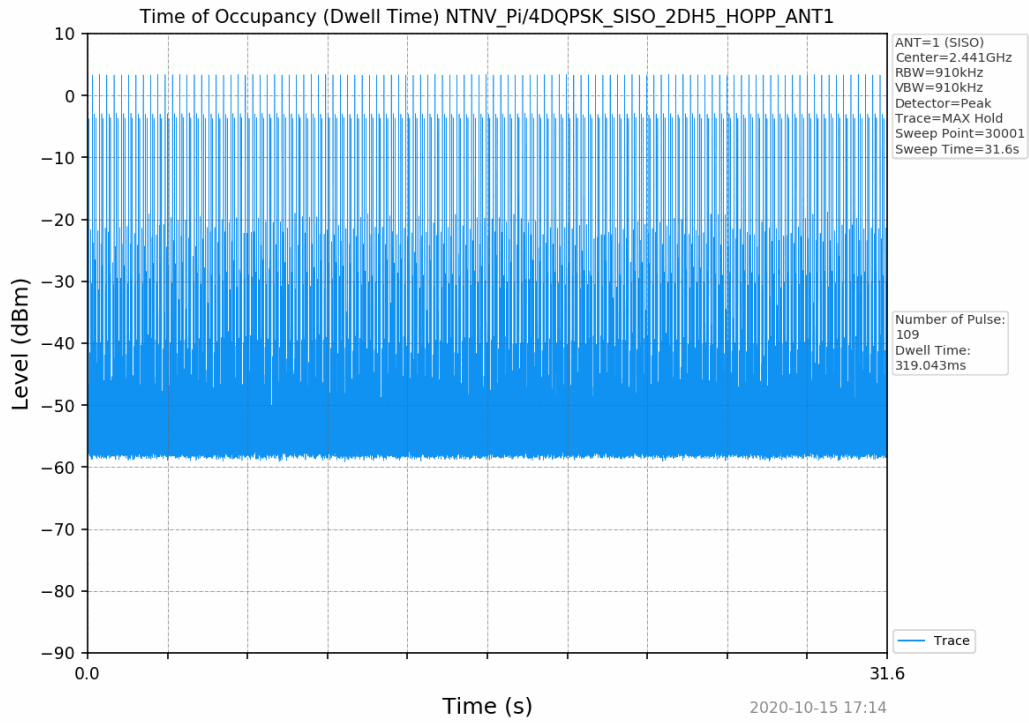


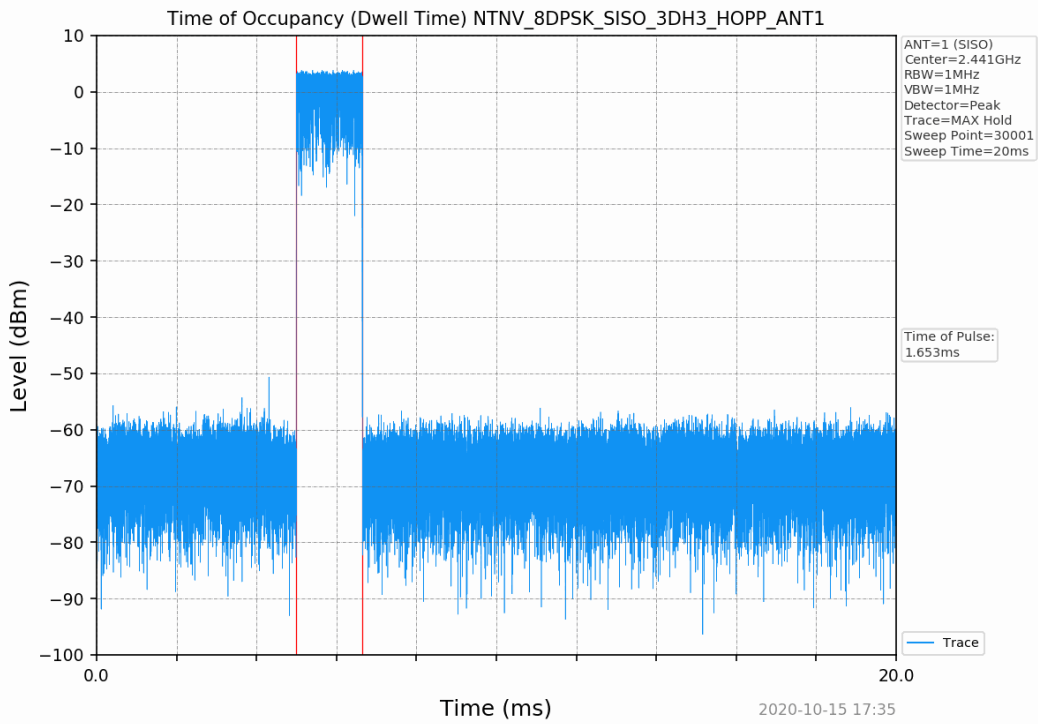
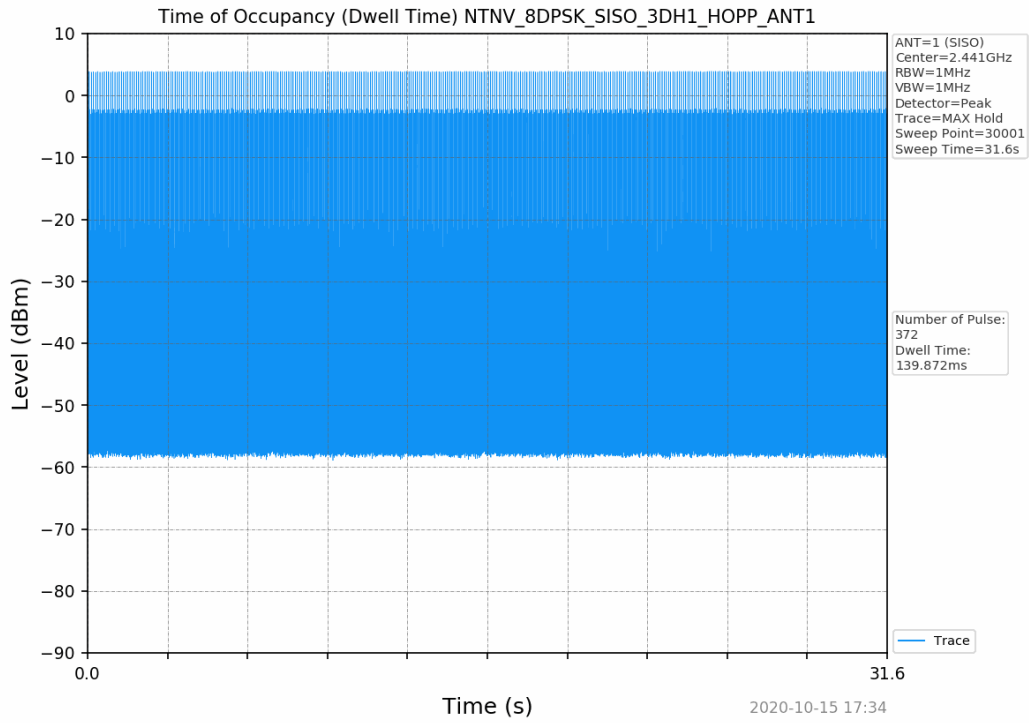


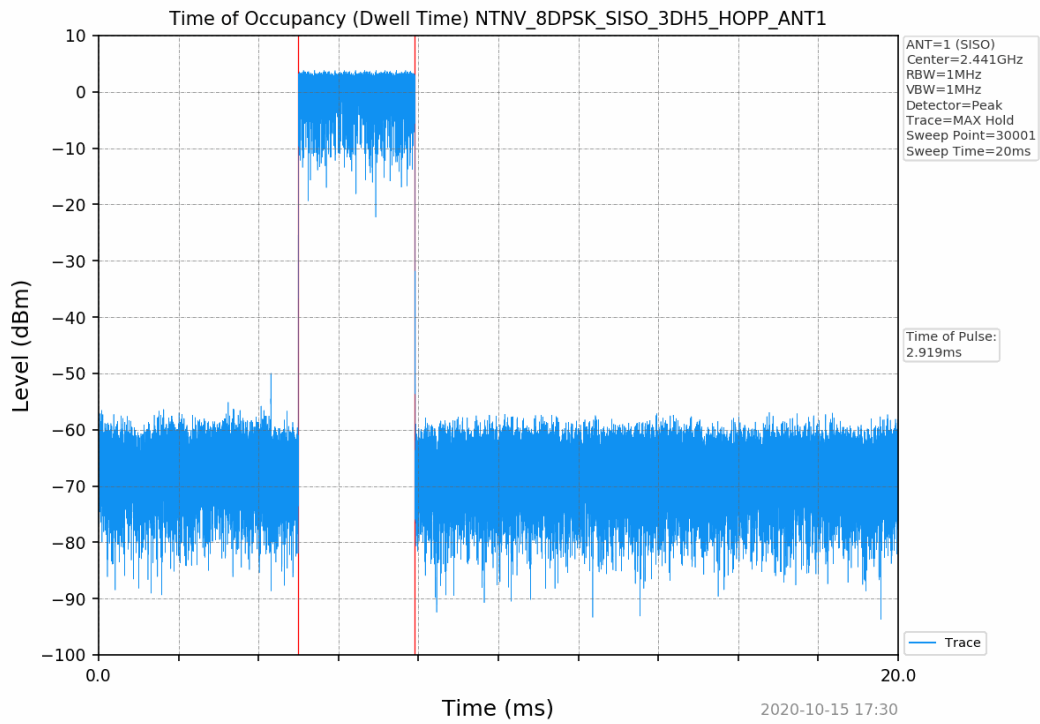
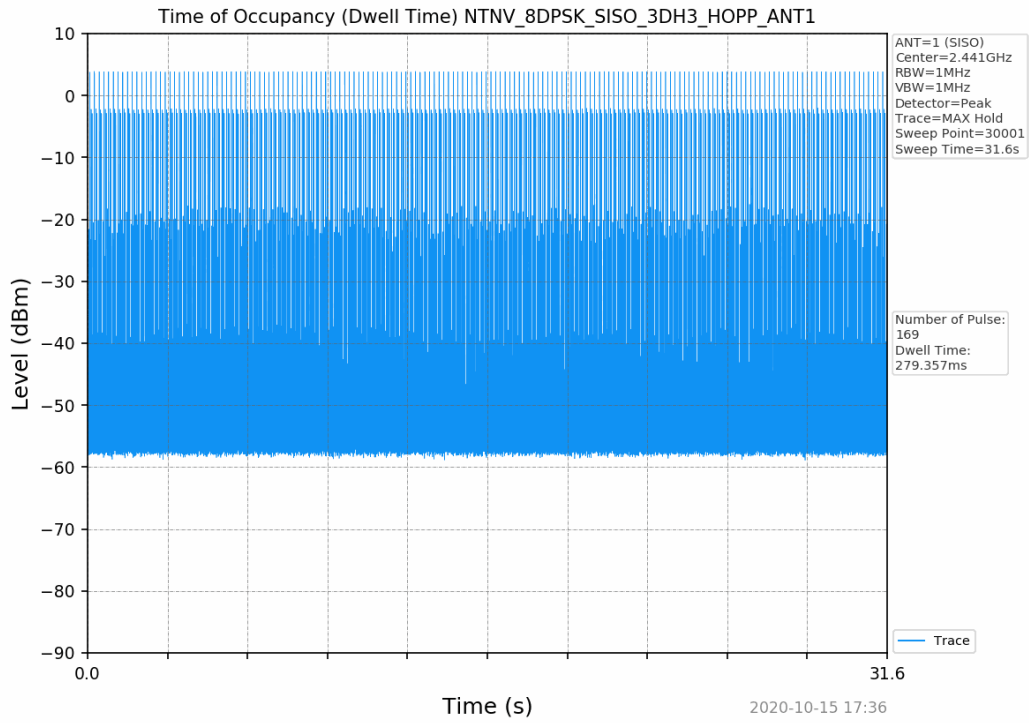


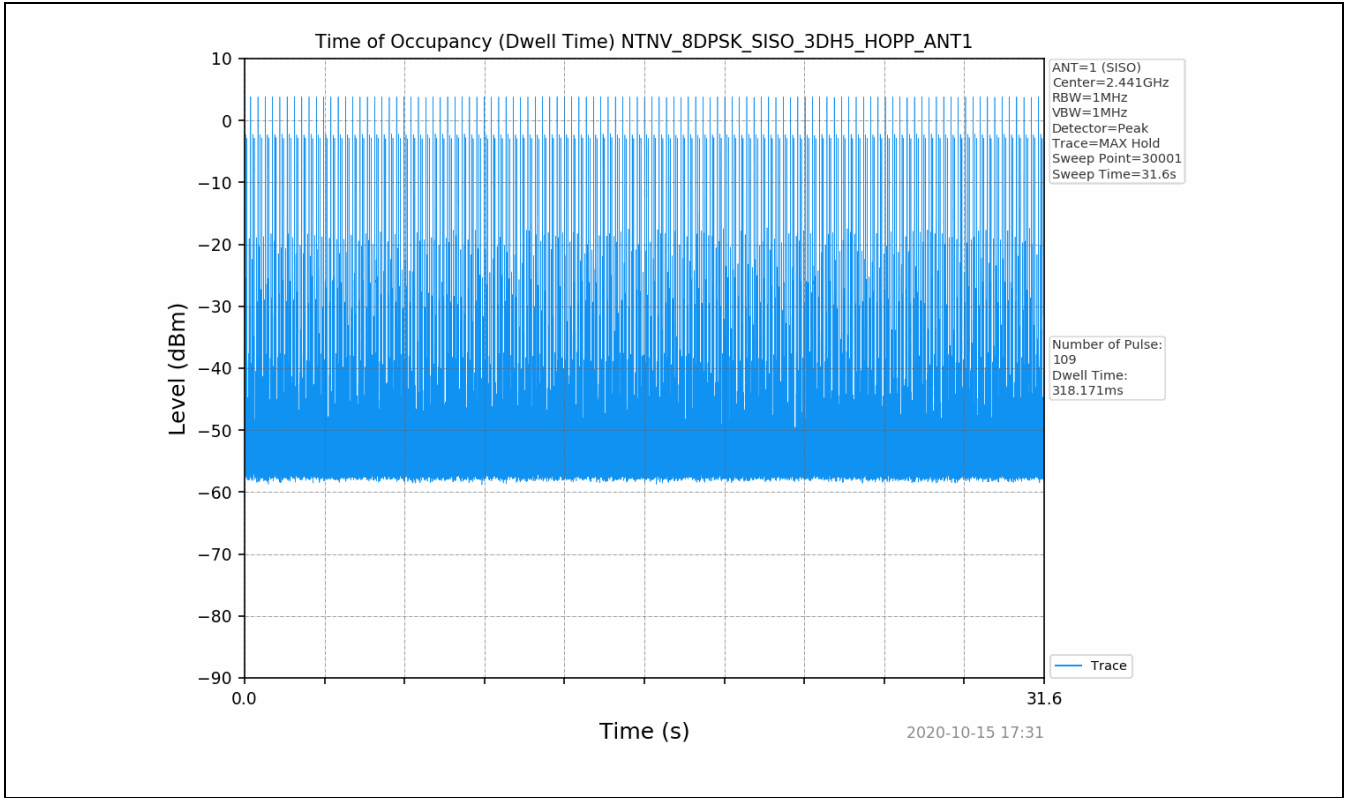










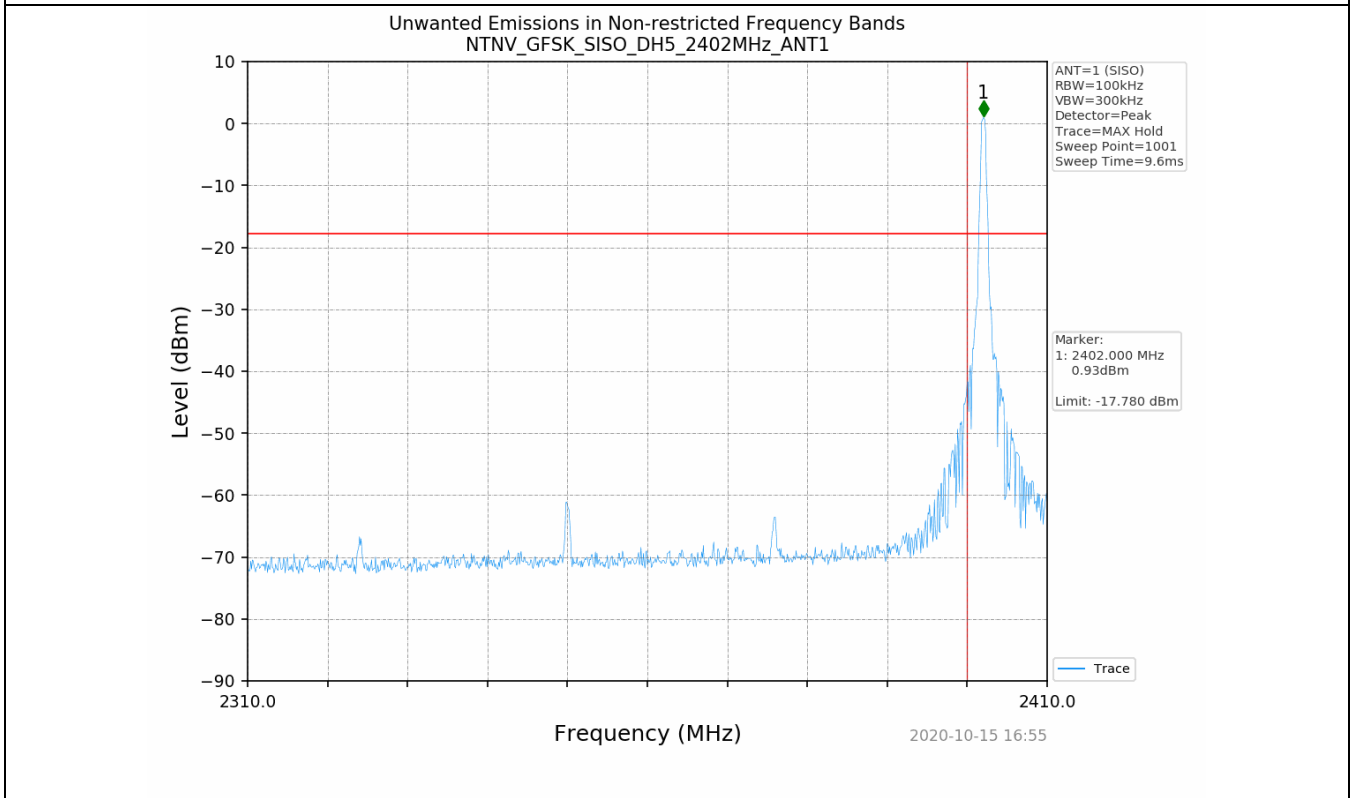
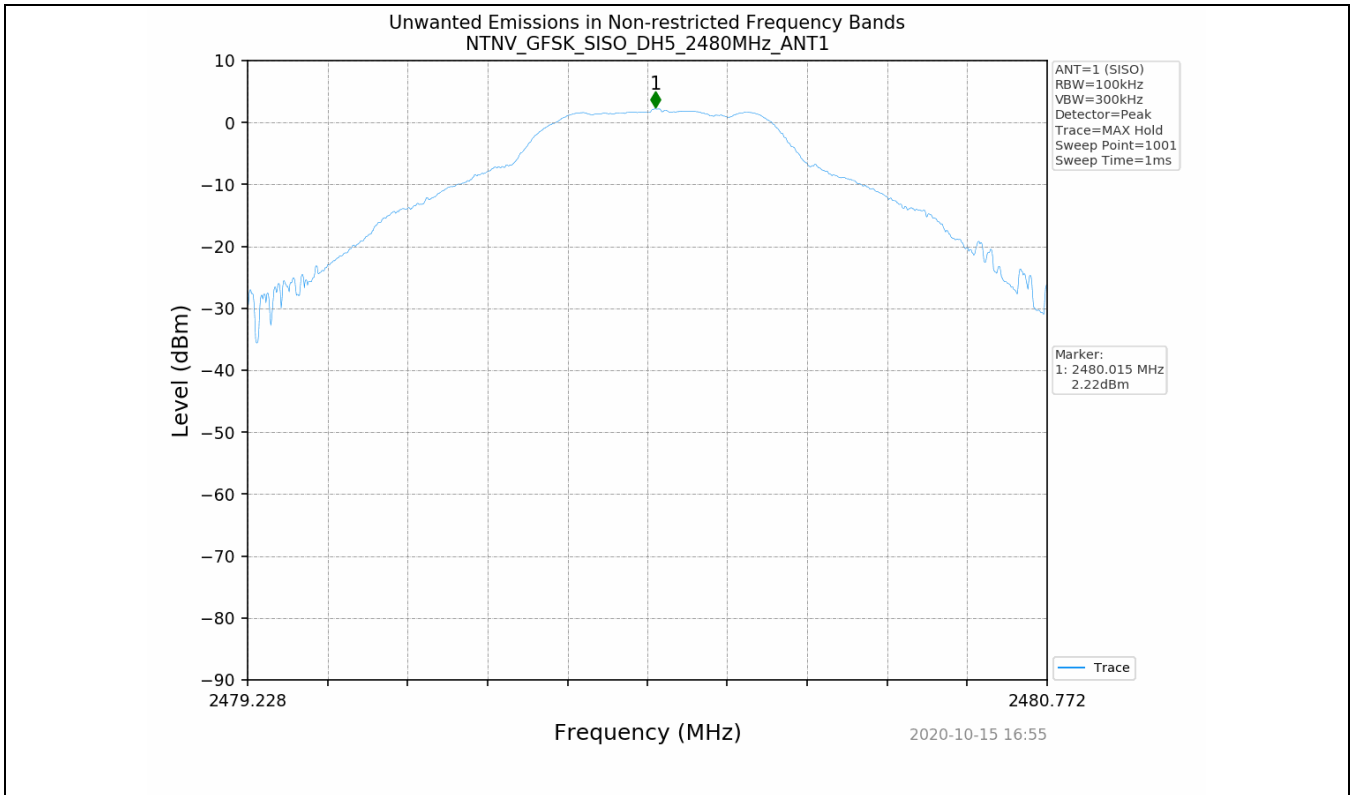


6. Unwanted Emissions in Non-restricted Frequency Bands

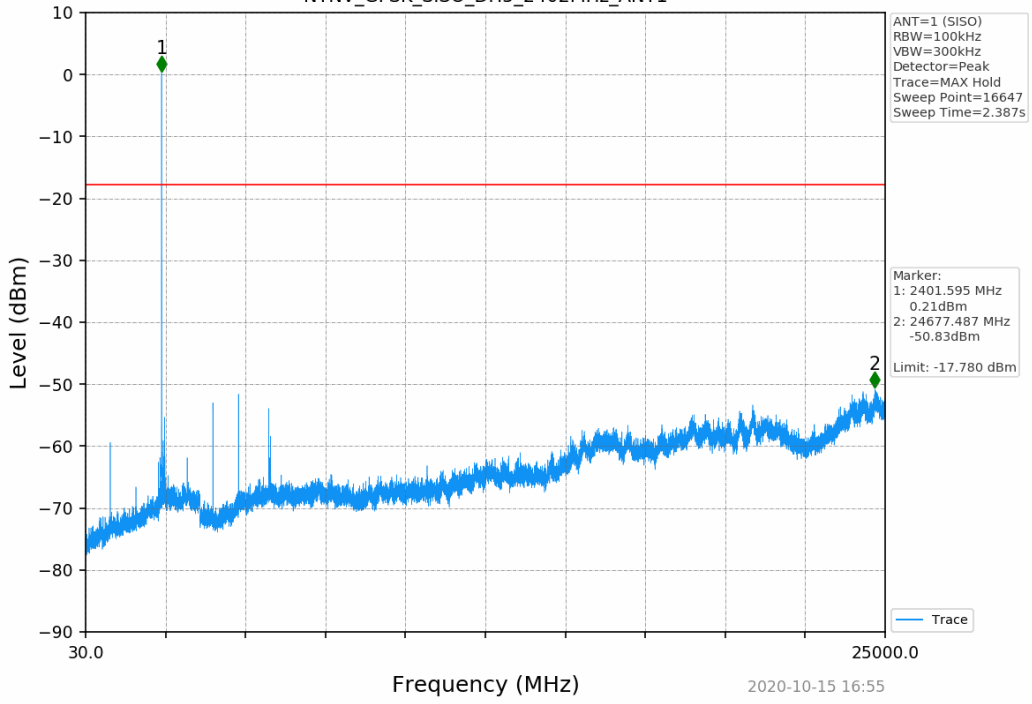
6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-17.78	PASS
	2441	SISO	1	Refer to test graph	-17.78	PASS
	2480	SISO	1	Refer to test graph	-17.78	PASS
	Hopping	SISO	1	Refer to test graph	-17.78	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-19.13	PASS
	2441	SISO	1	Refer to test graph	-19.13	PASS
	2480	SISO	1	Refer to test graph	-19.13	PASS
	Hopping	SISO	1	Refer to test graph	-19.13	PASS
8DPSK	2402	SISO	1	Refer to test graph	-19.19	PASS
	2441	SISO	1	Refer to test graph	-19.19	PASS
	2480	SISO	1	Refer to test graph	-19.19	PASS
	Hopping	SISO	1	Refer to test graph	-19.19	PASS

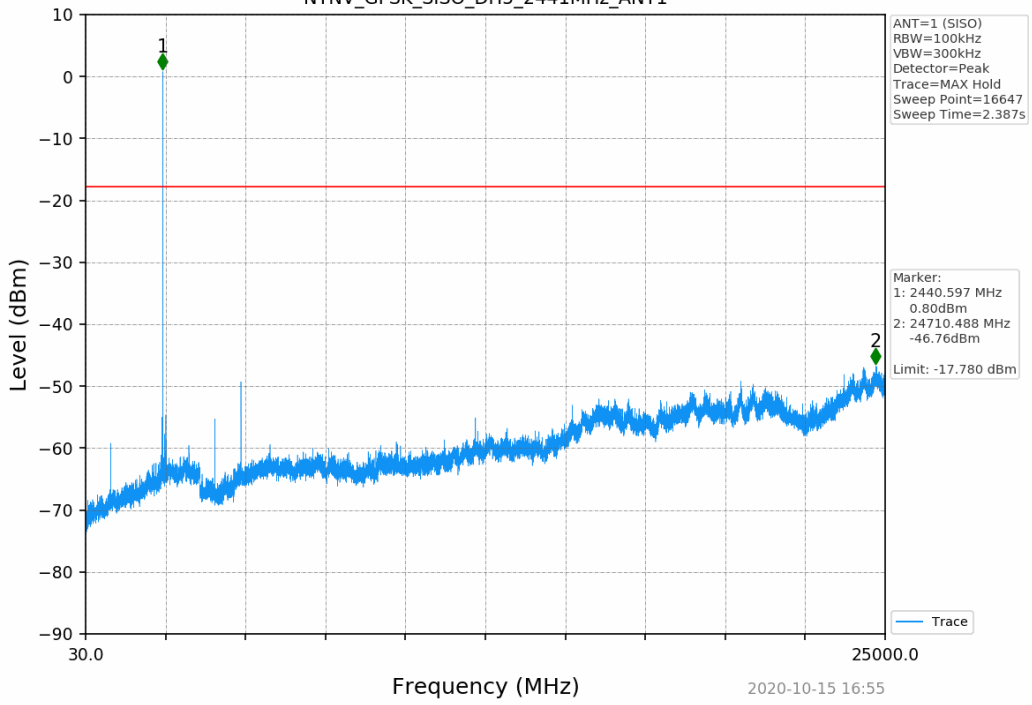
6.2 Test Graph



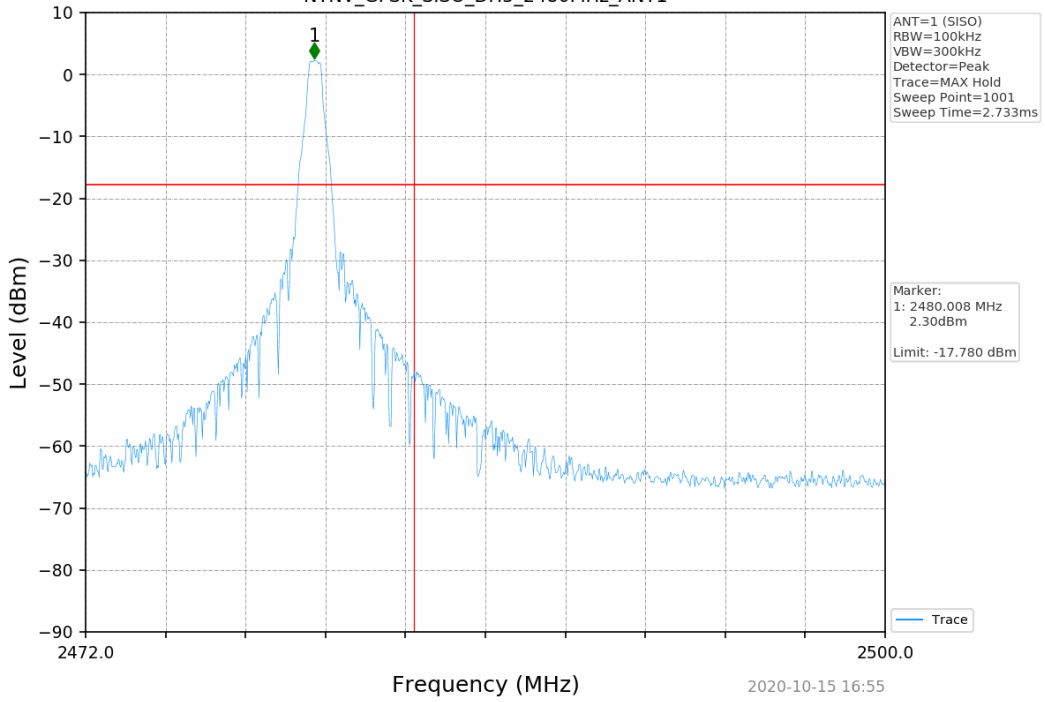
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2402MHz_ANT1



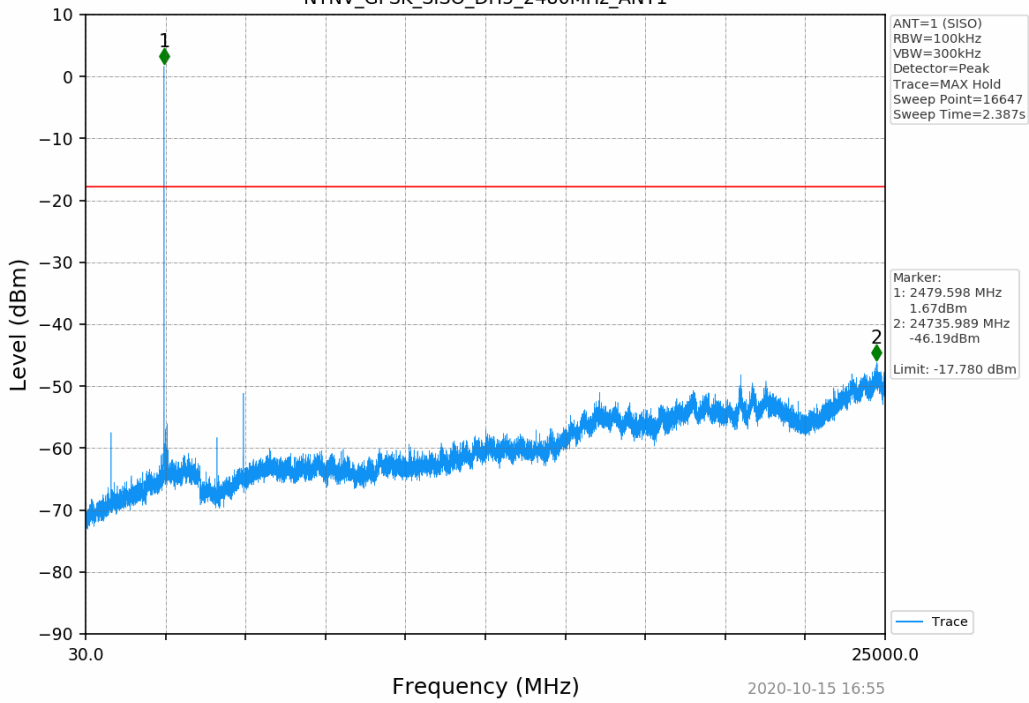
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1



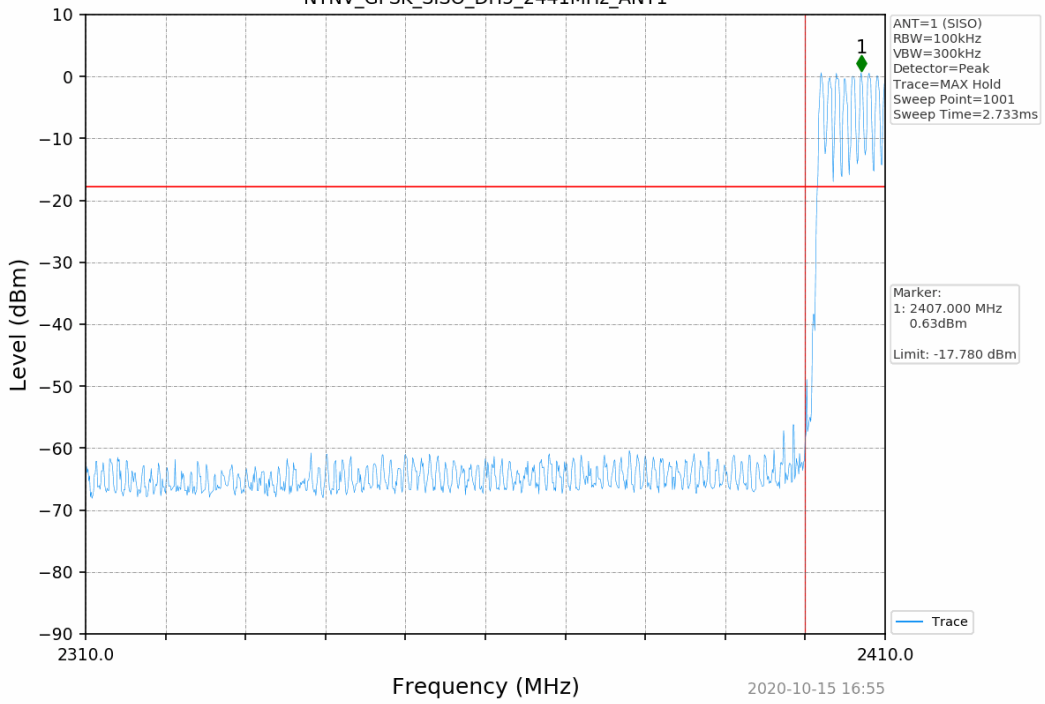
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2480MHz_ANT1



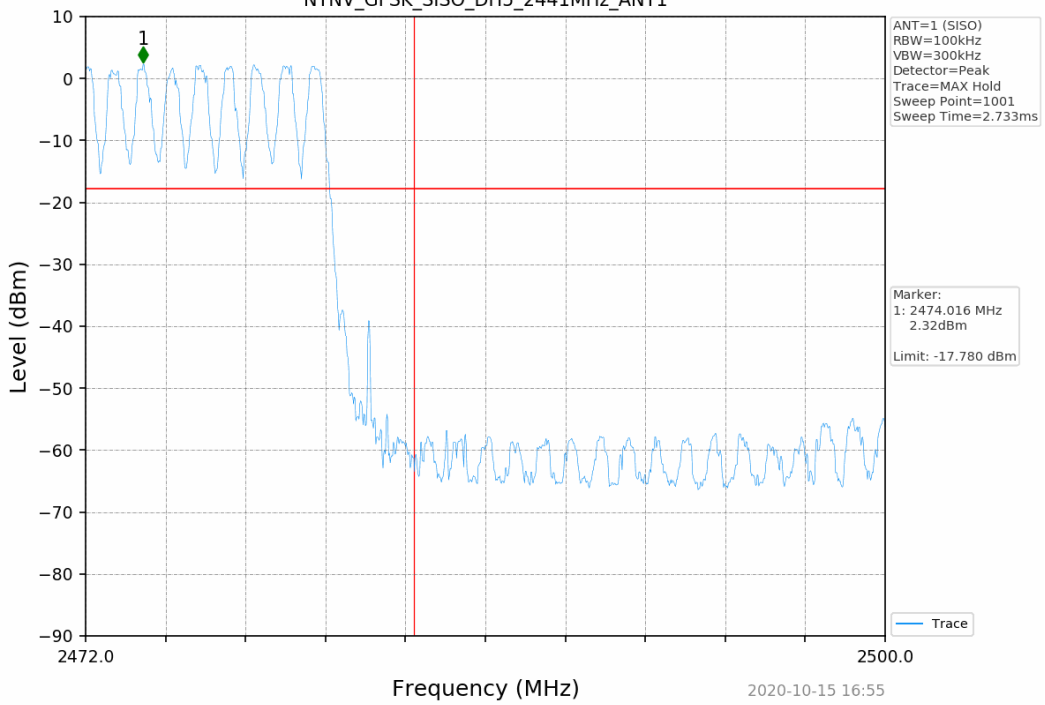
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2480MHz_ANT1



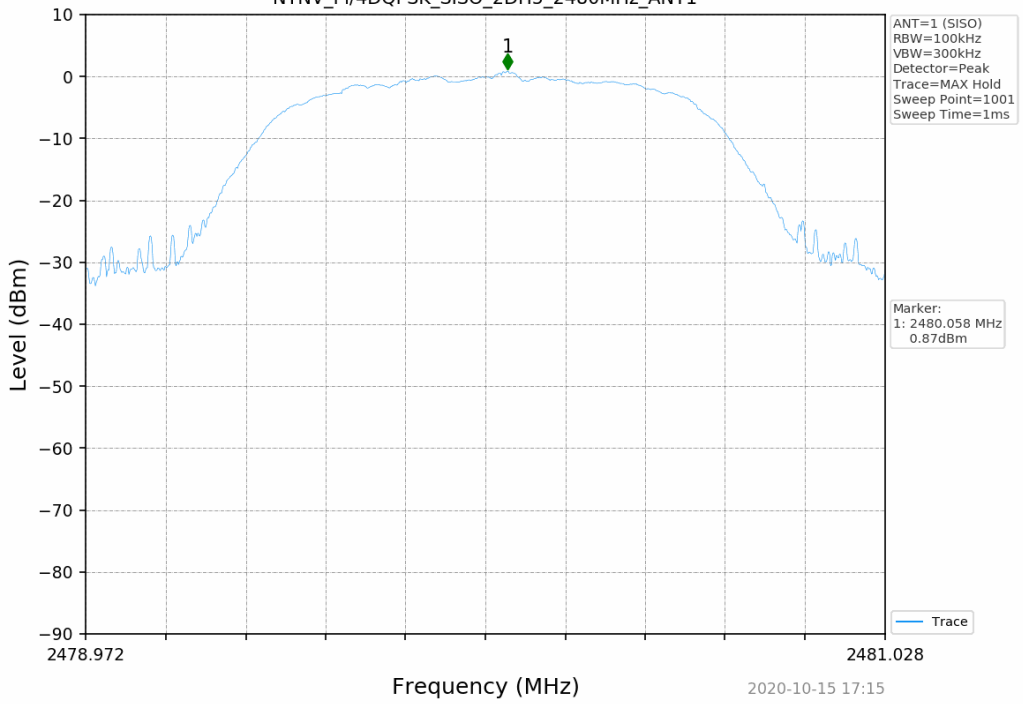
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1



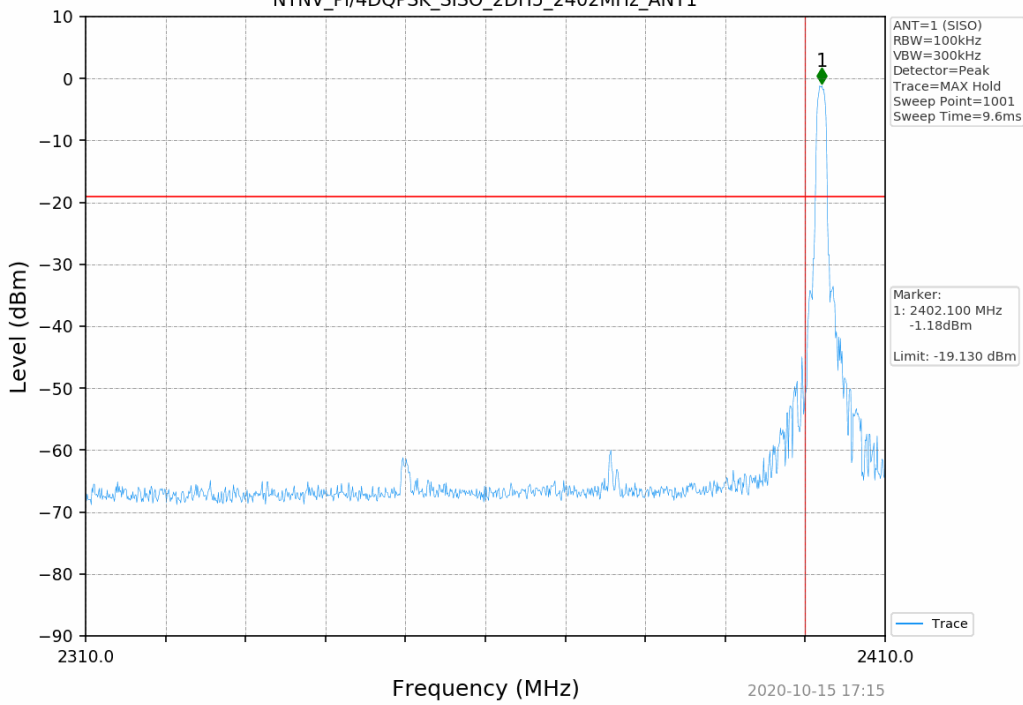
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1



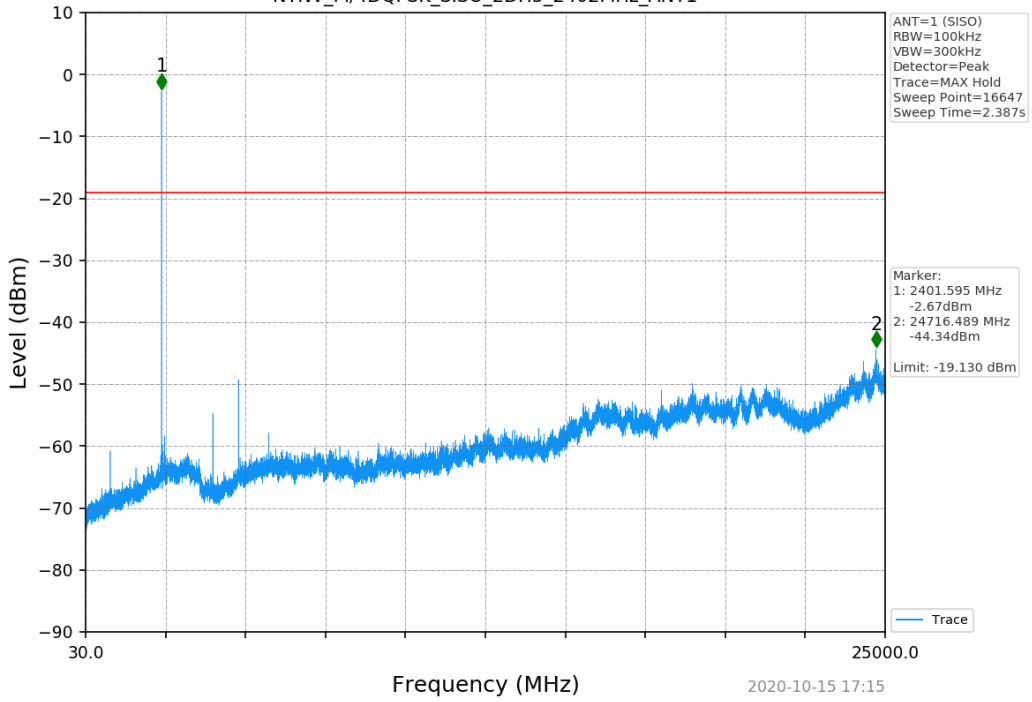
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2480MHz_ANT1



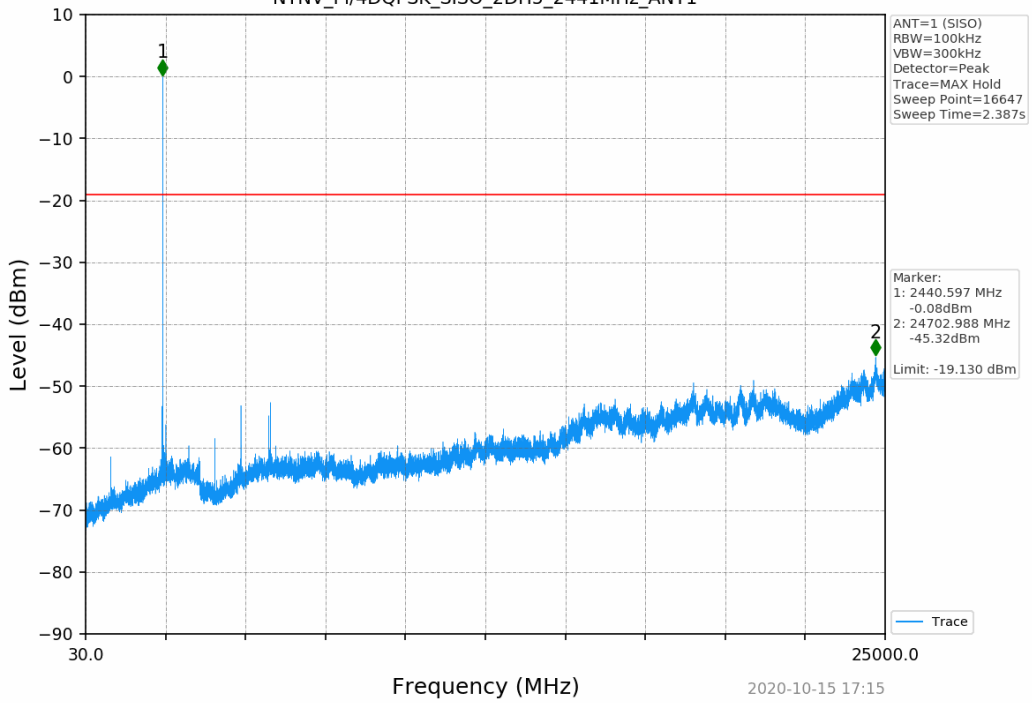
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2402MHz_ANT1



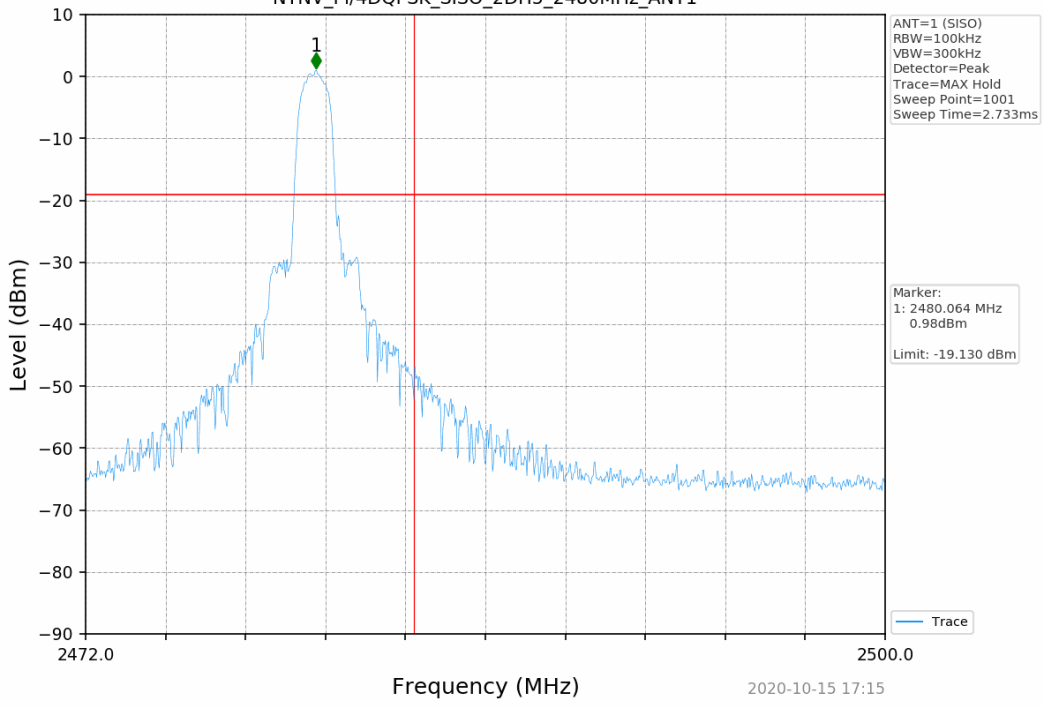
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2402MHz_ANT1



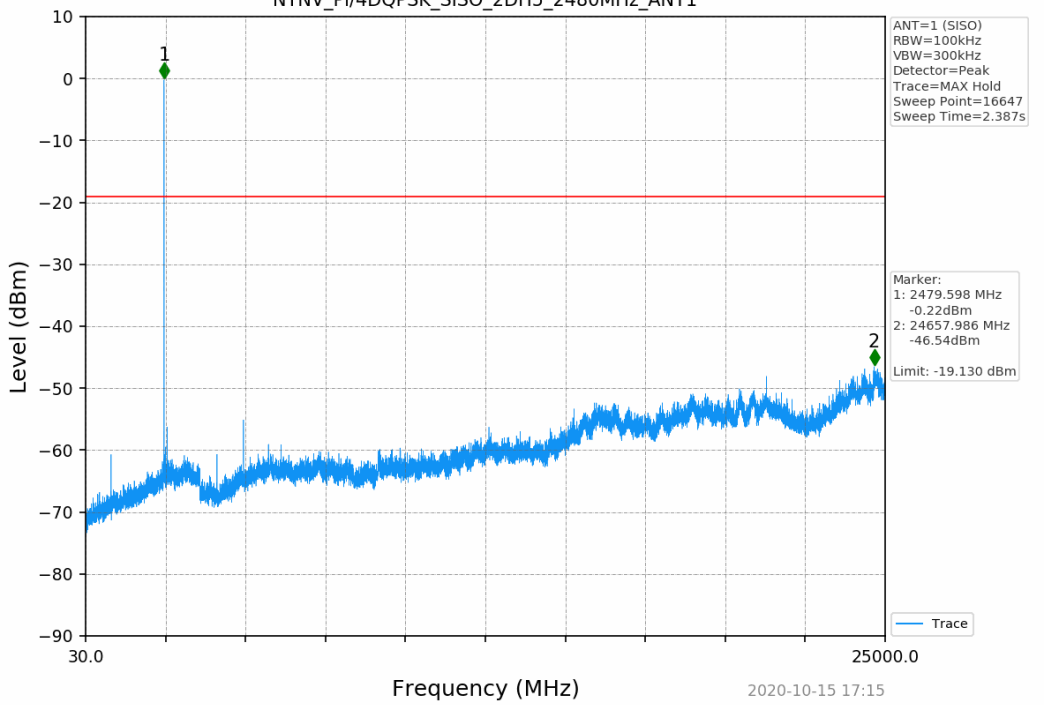
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2441MHz_ANT1



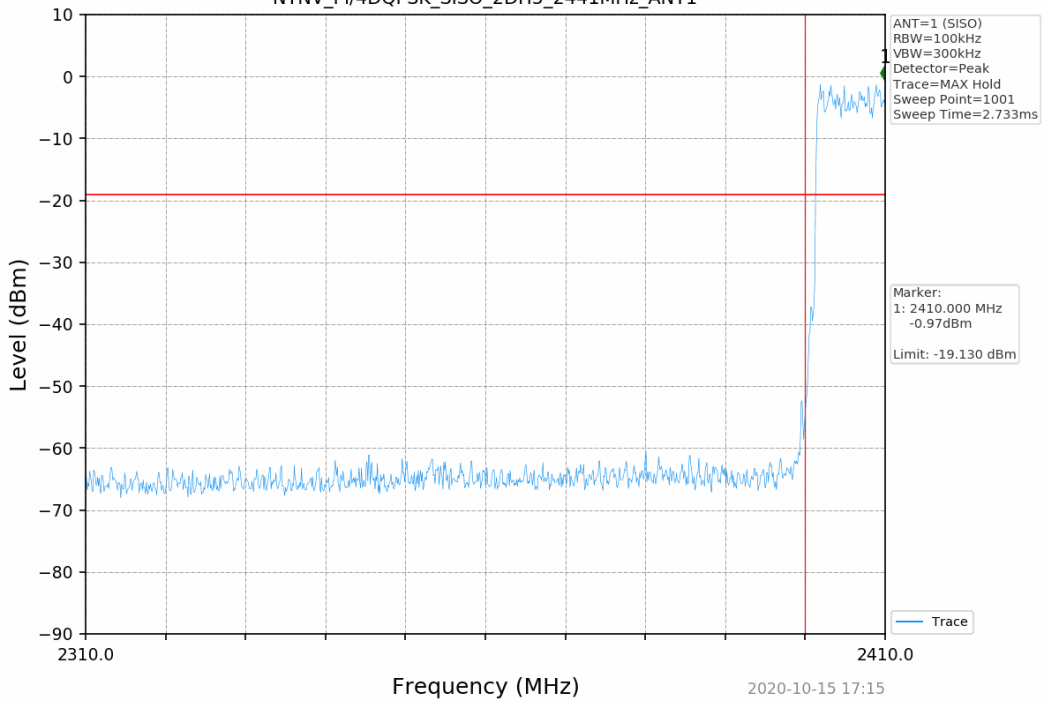
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2480MHz_ANT1



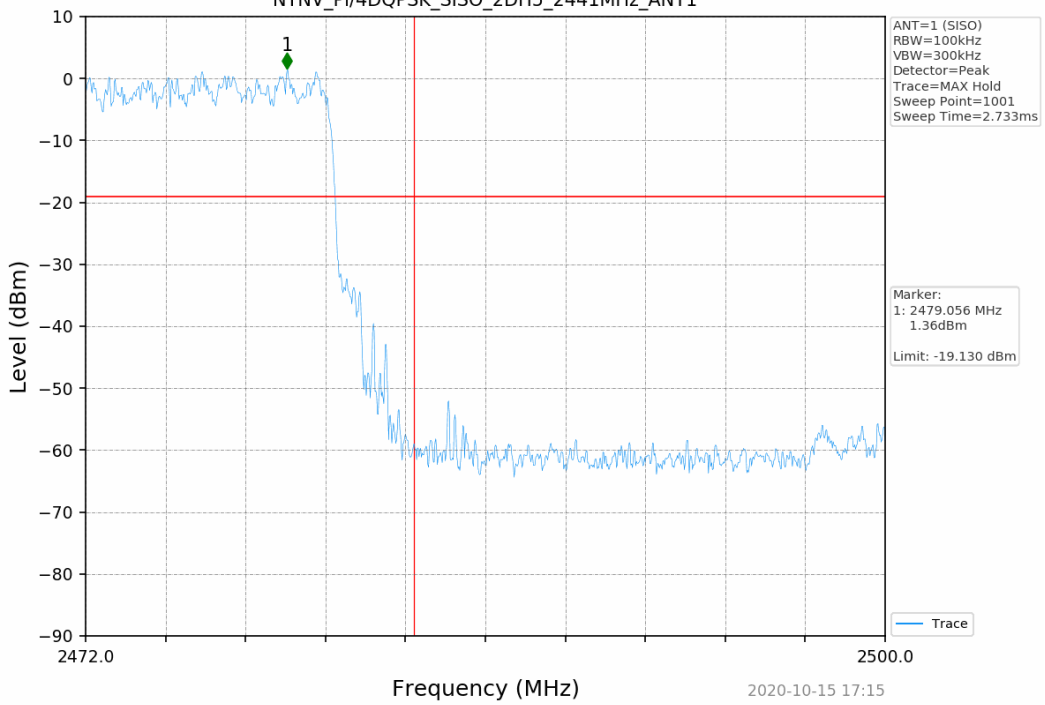
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2480MHz_ANT1



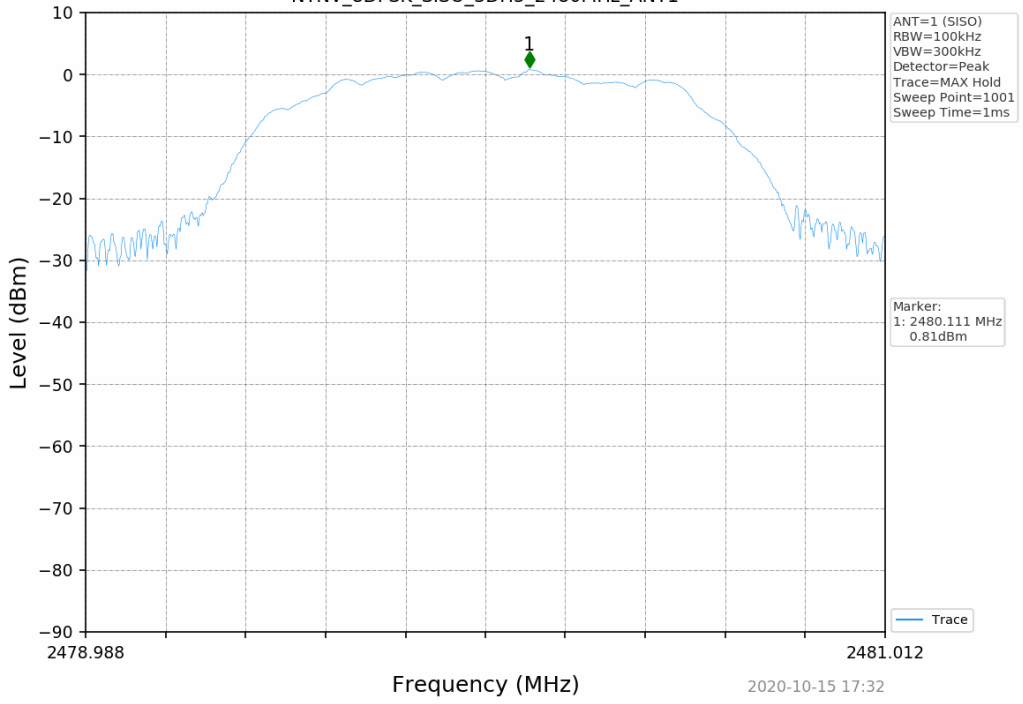
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2441MHz_ANT1



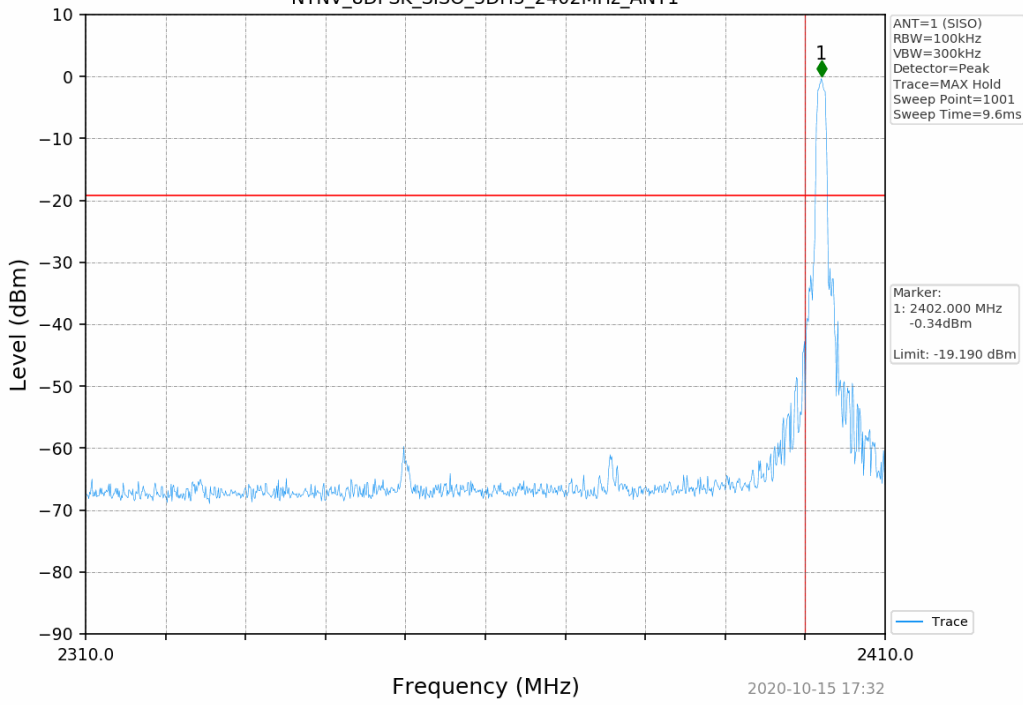
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4DQPSK_SISO_2DH5_2441MHz_ANT1



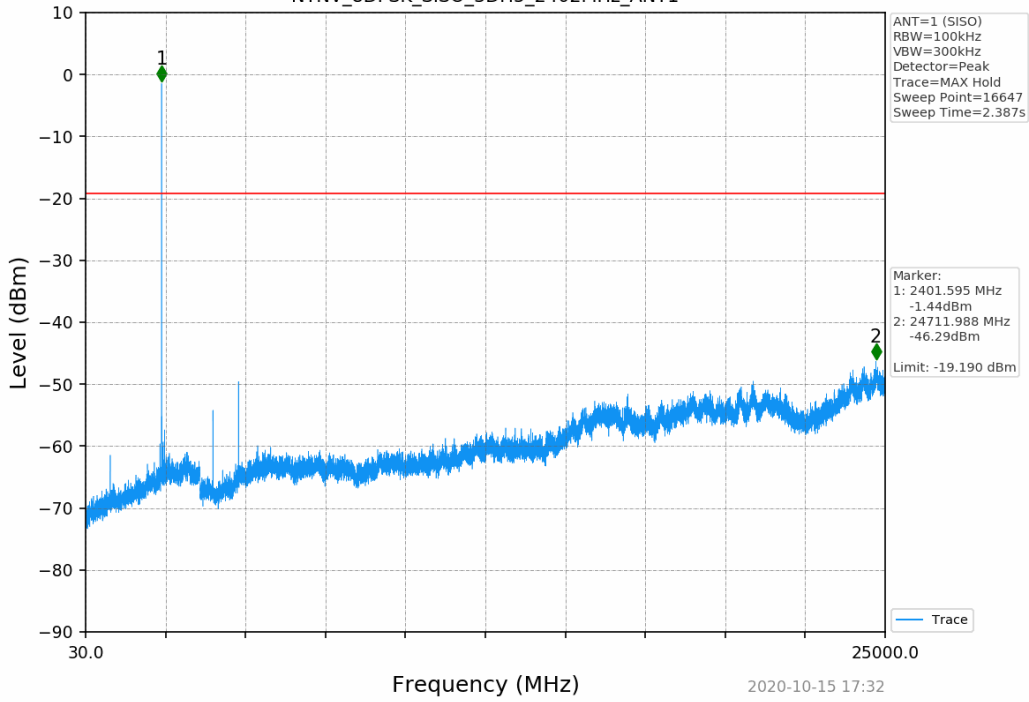
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2480MHz_ANT1



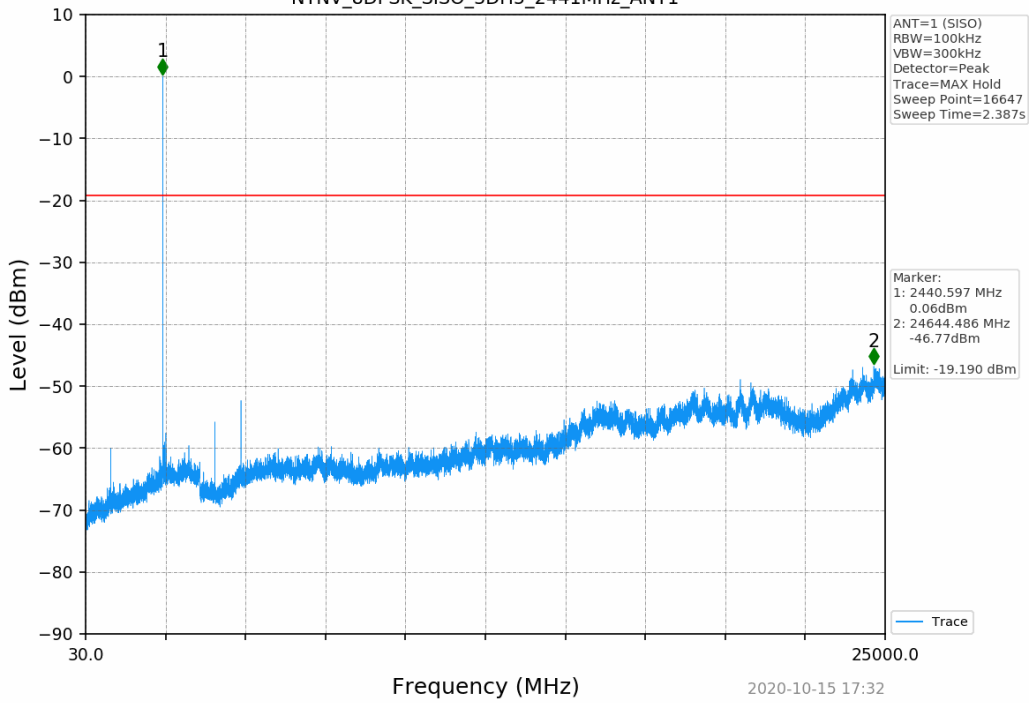
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2402MHz_ANT1



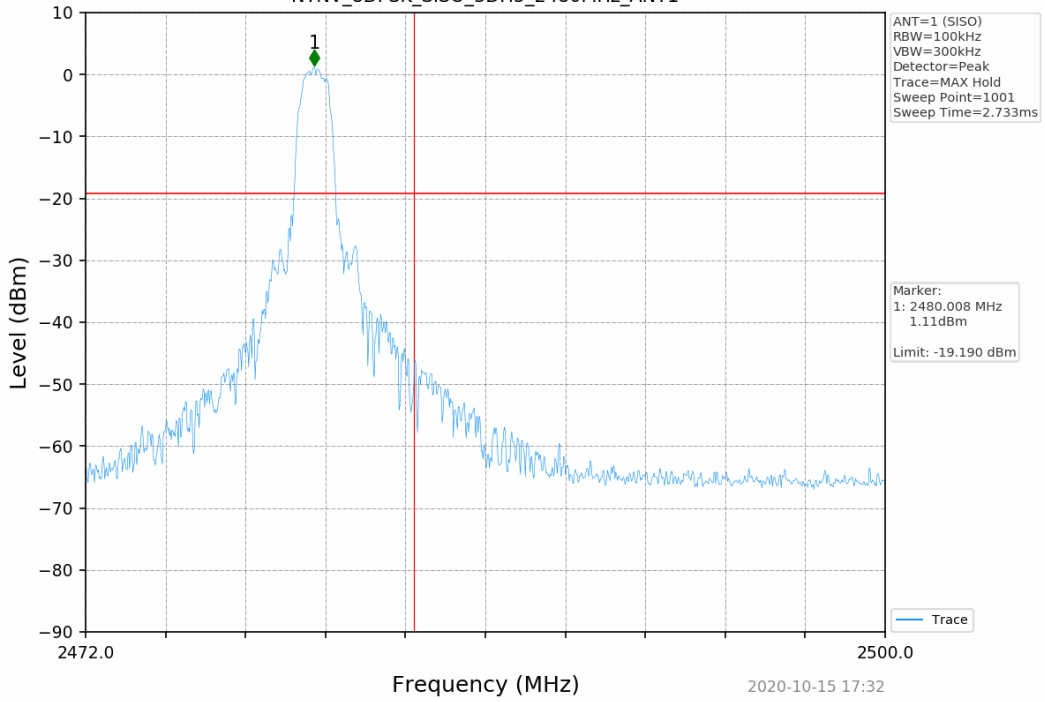
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2402MHz_ANT1



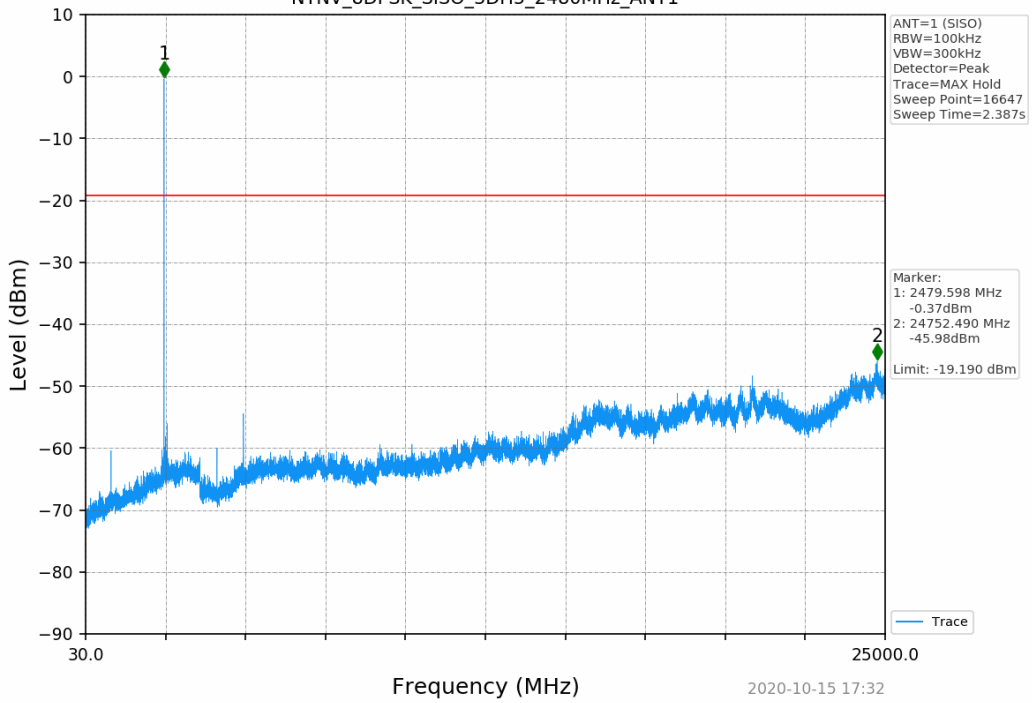
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1



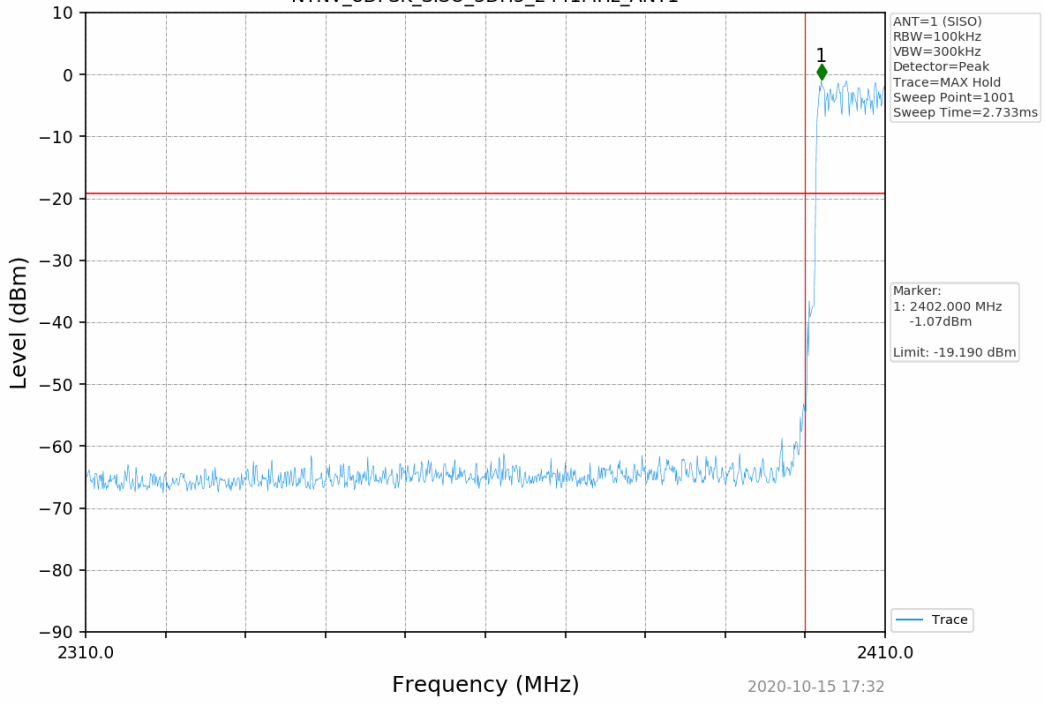
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2480MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2480MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1

