

Appendix for 15.247

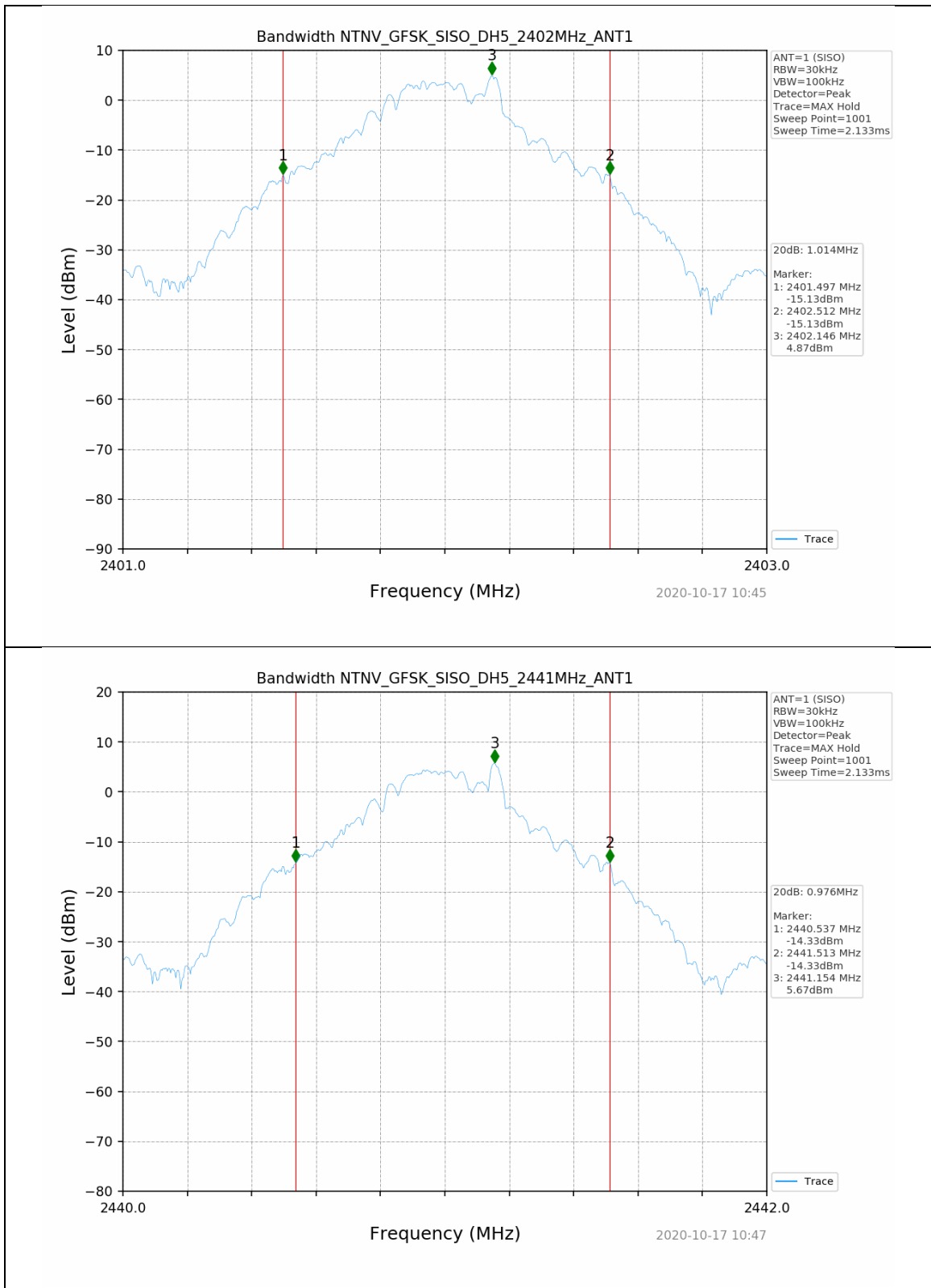
1. Bandwidth

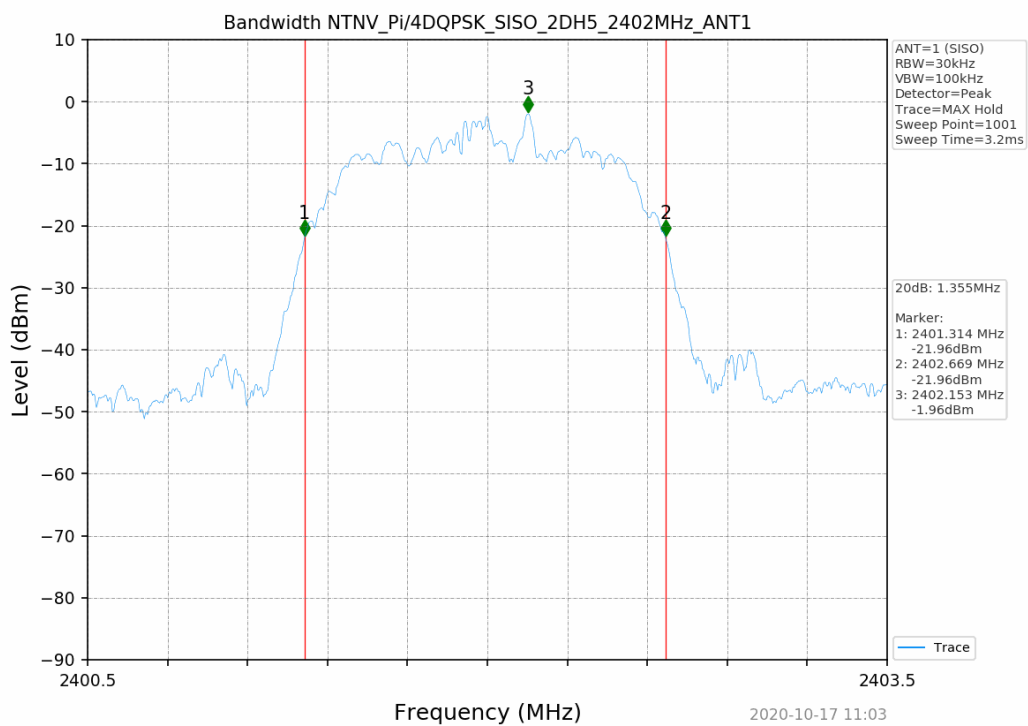
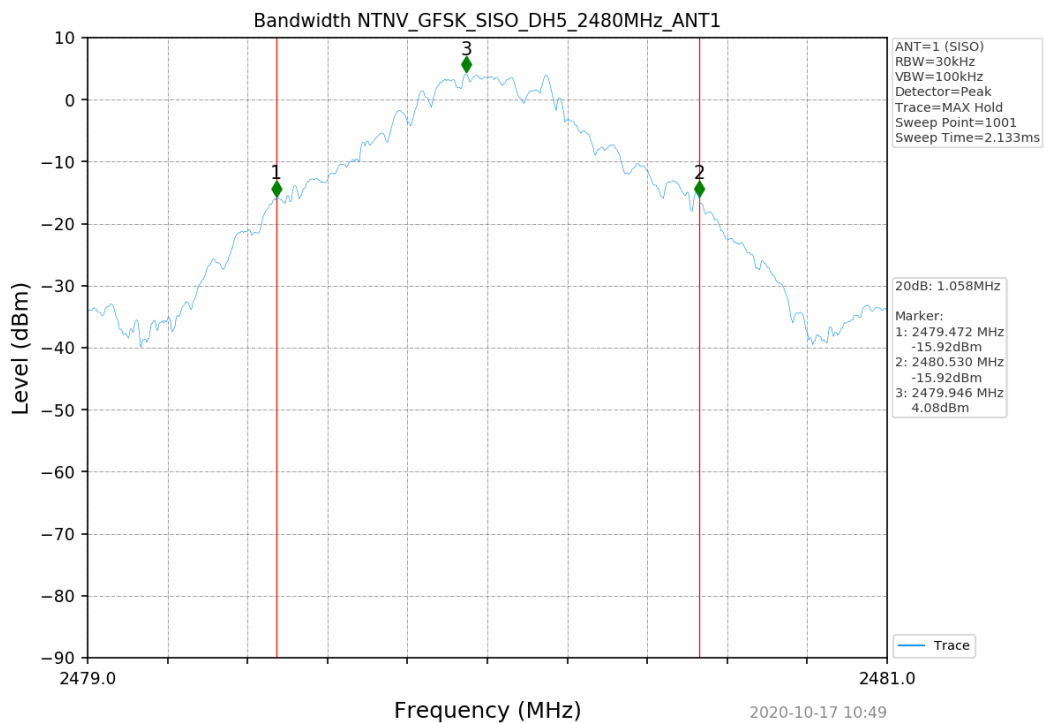
1.1 Test Result

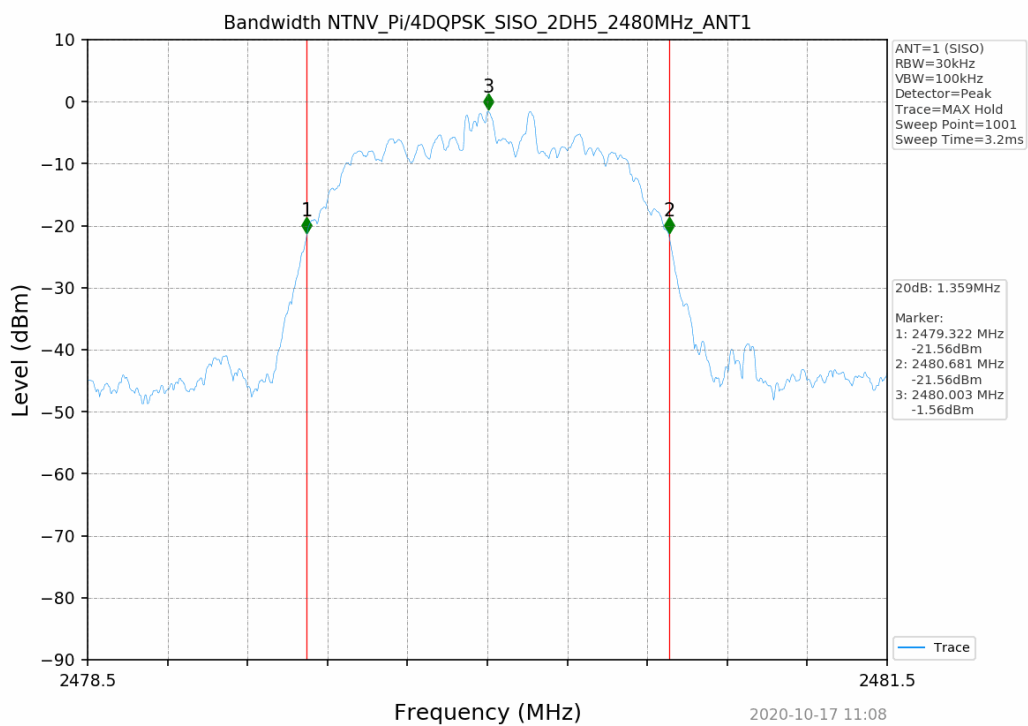
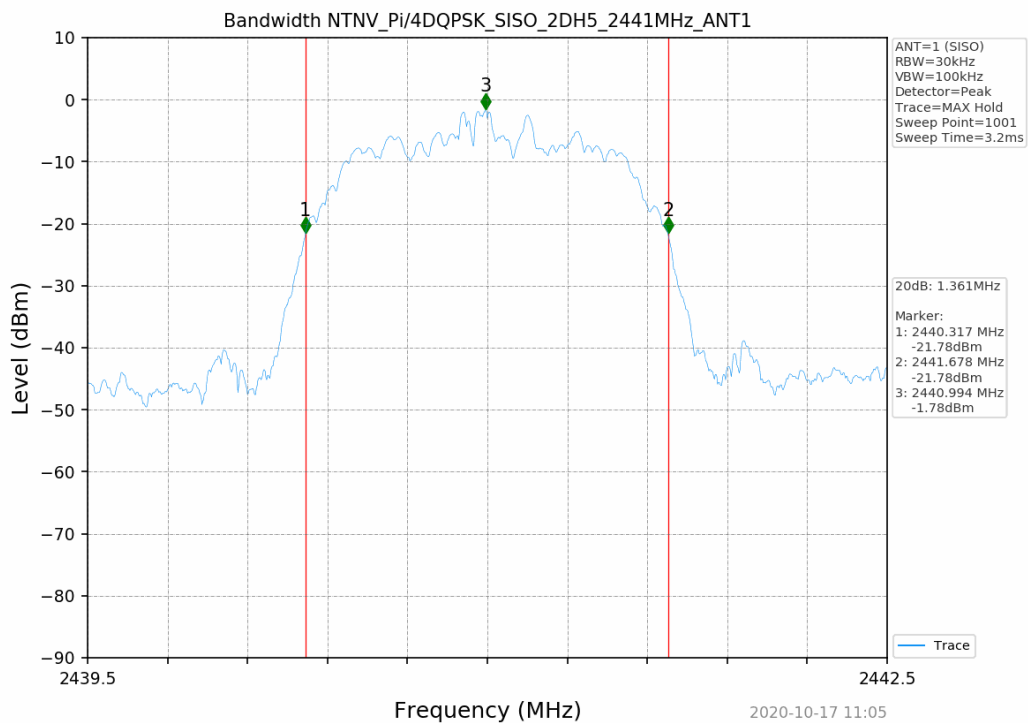
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
GFSK	2402	SISO	1	1.014	PASS
	2441	SISO	1	0.976	PASS
	2480	SISO	1	1.058	PASS
Pi/4DQPSK	2402	SISO	1	1.355	PASS
	2441	SISO	1	1.361	PASS
	2480	SISO	1	1.359	PASS
8DPSK	2402	SISO	1	1.317	PASS
	2441	SISO	1	1.345	PASS
	2480	SISO	1	1.315	PASS

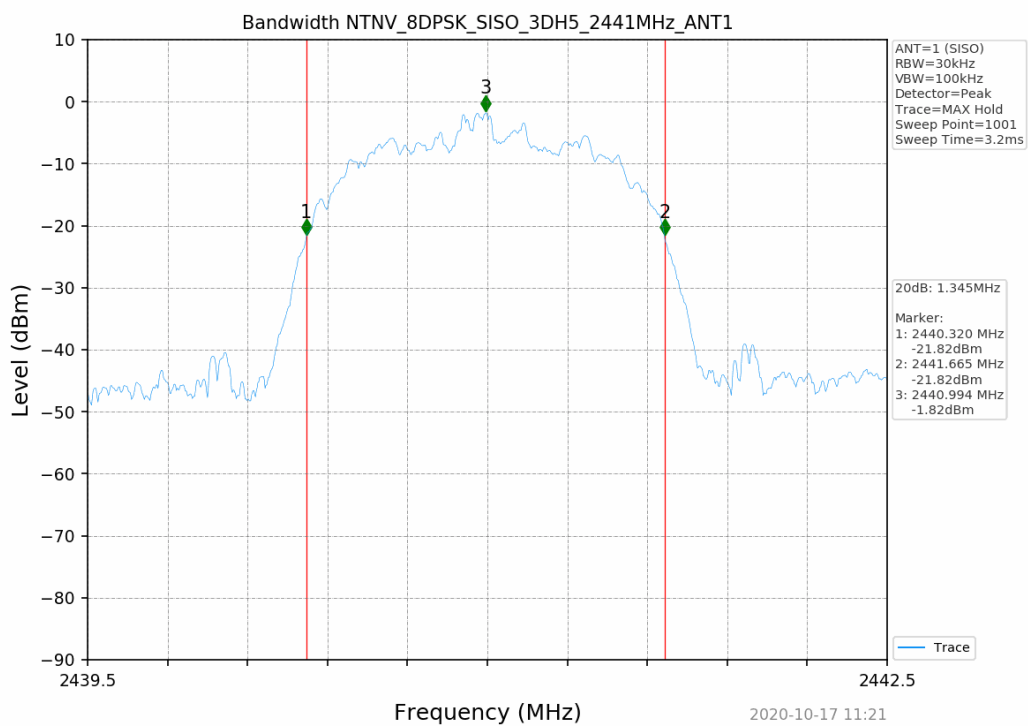
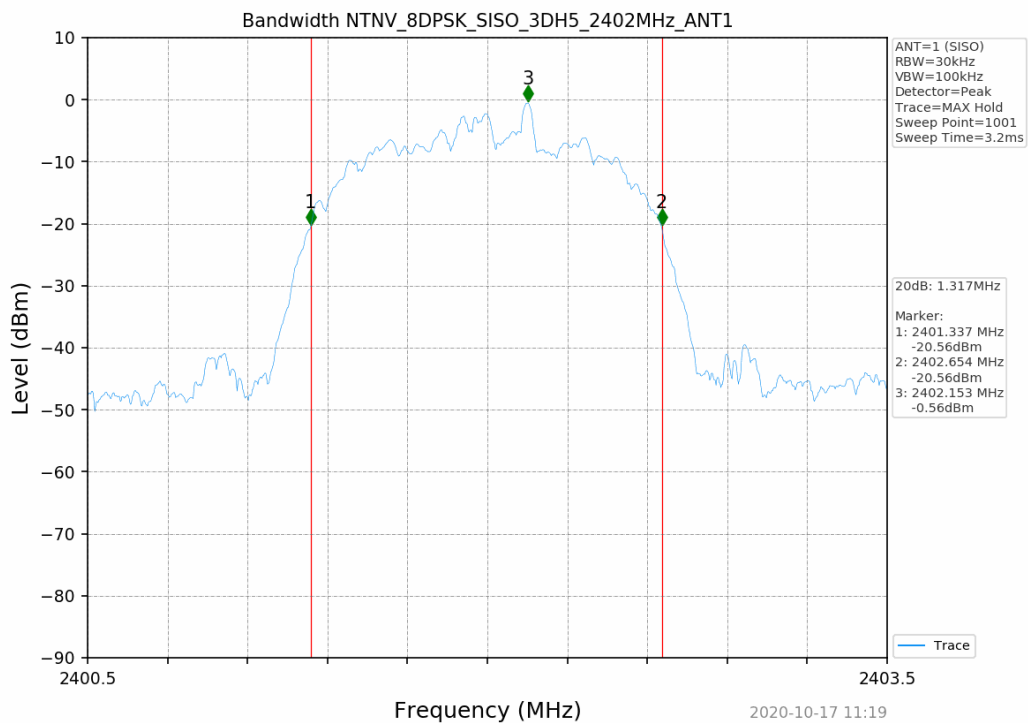
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
GFSK	2402	SISO	1	0.900	Only for Report Use
	2441	SISO	1	0.911	Only for Report Use
	2480	SISO	1	0.898	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.207	Only for Report Use
	2441	SISO	1	1.208	Only for Report Use
	2480	SISO	1	1.212	Only for Report Use
8DPSK	2402	SISO	1	1.216	Only for Report Use
	2441	SISO	1	1.219	Only for Report Use
	2480	SISO	1	1.223	Only for Report Use

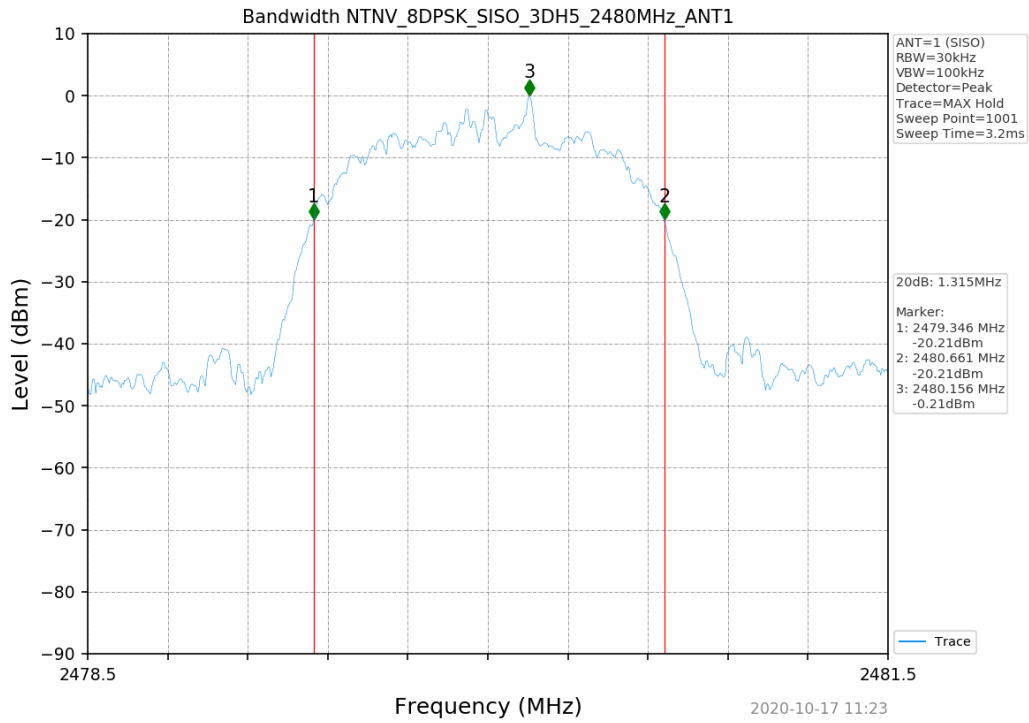
1.2 Test Graph - 20dB Bandwidth



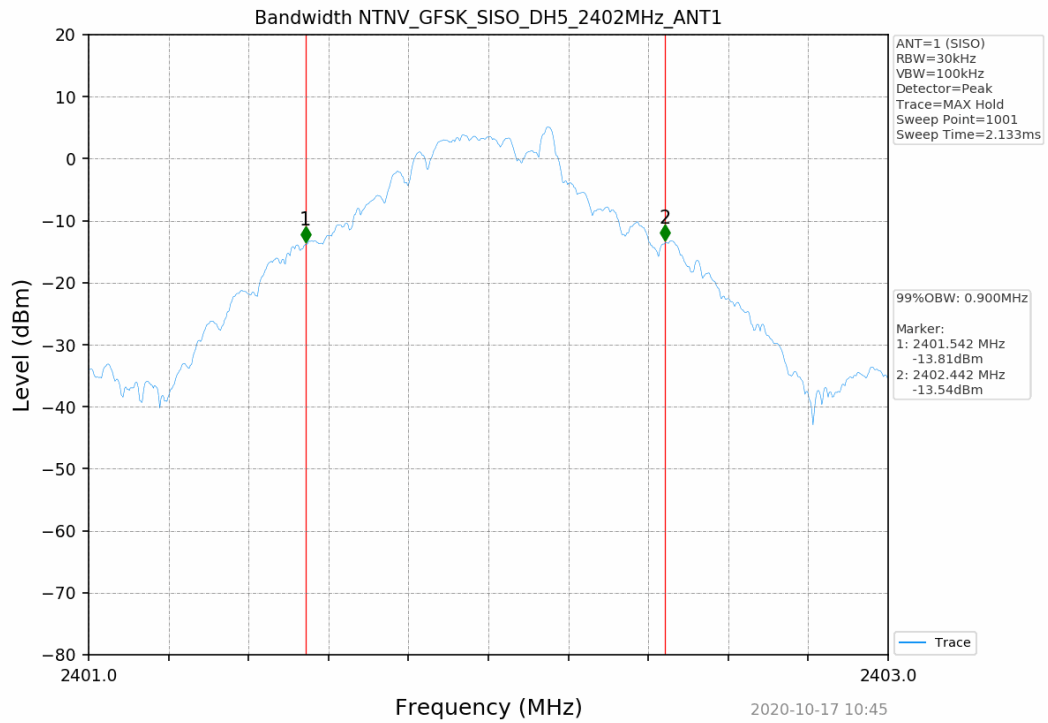


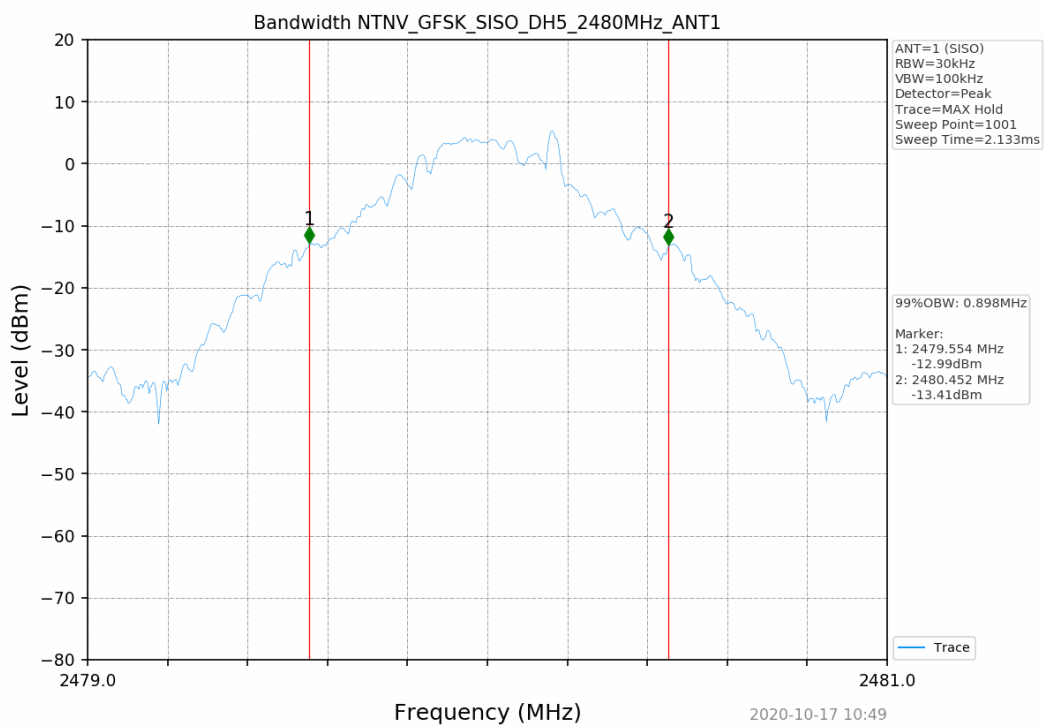
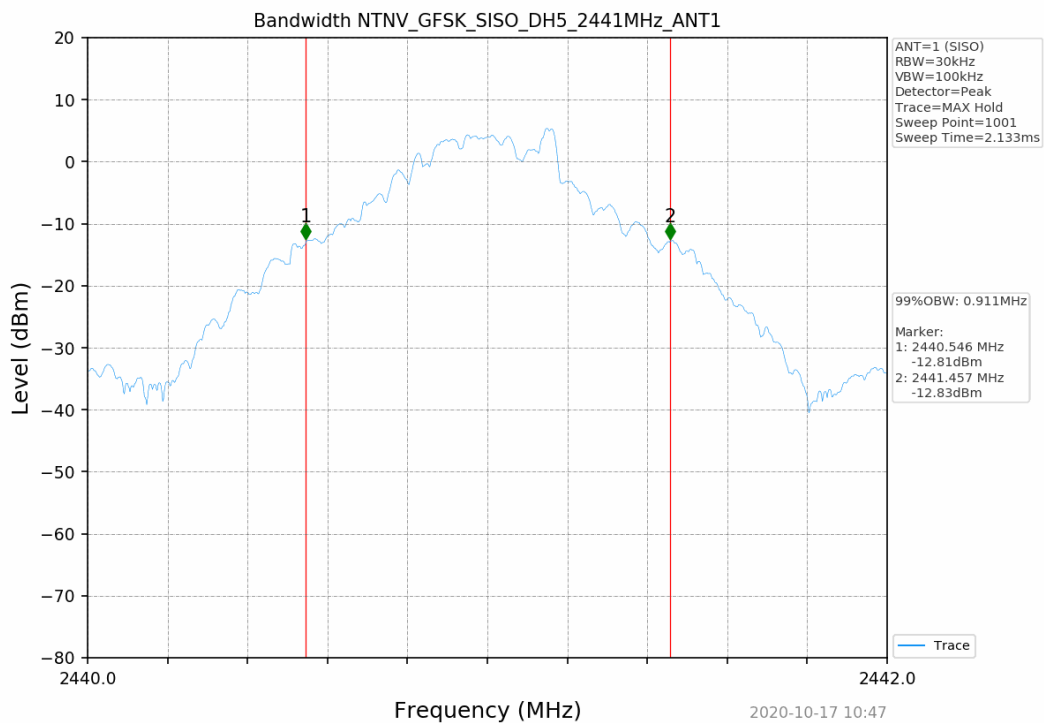


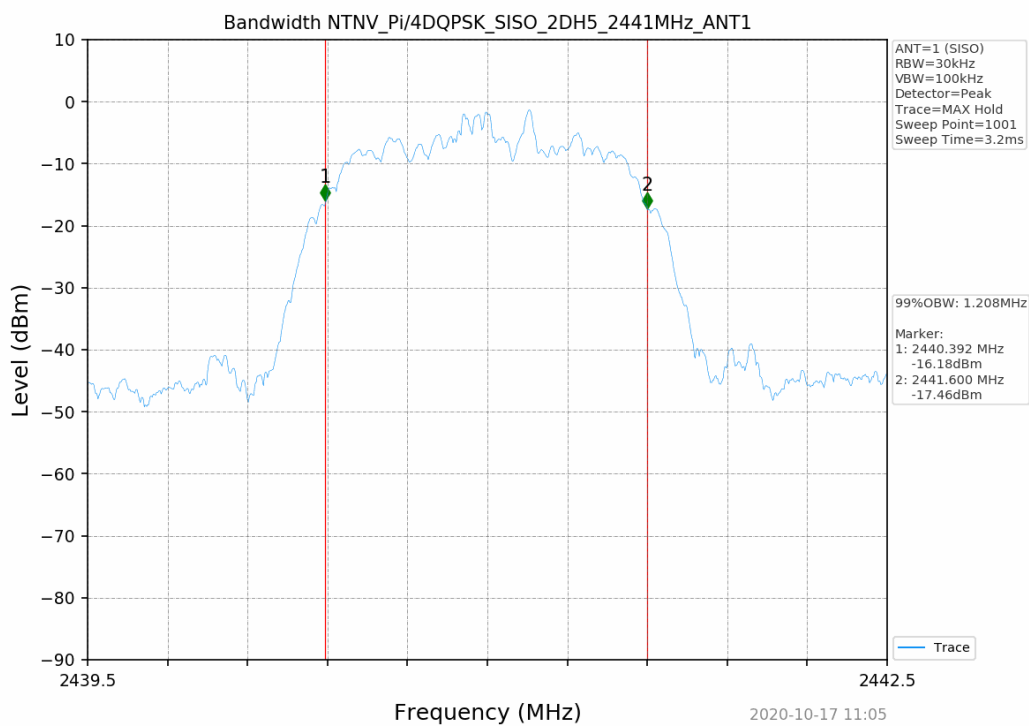
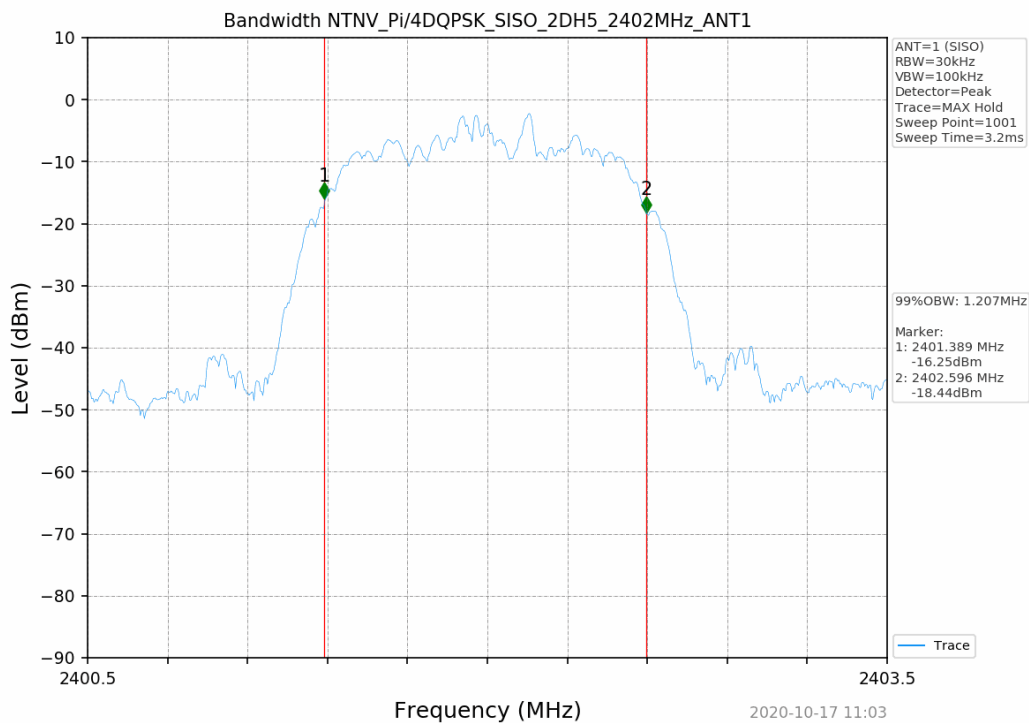


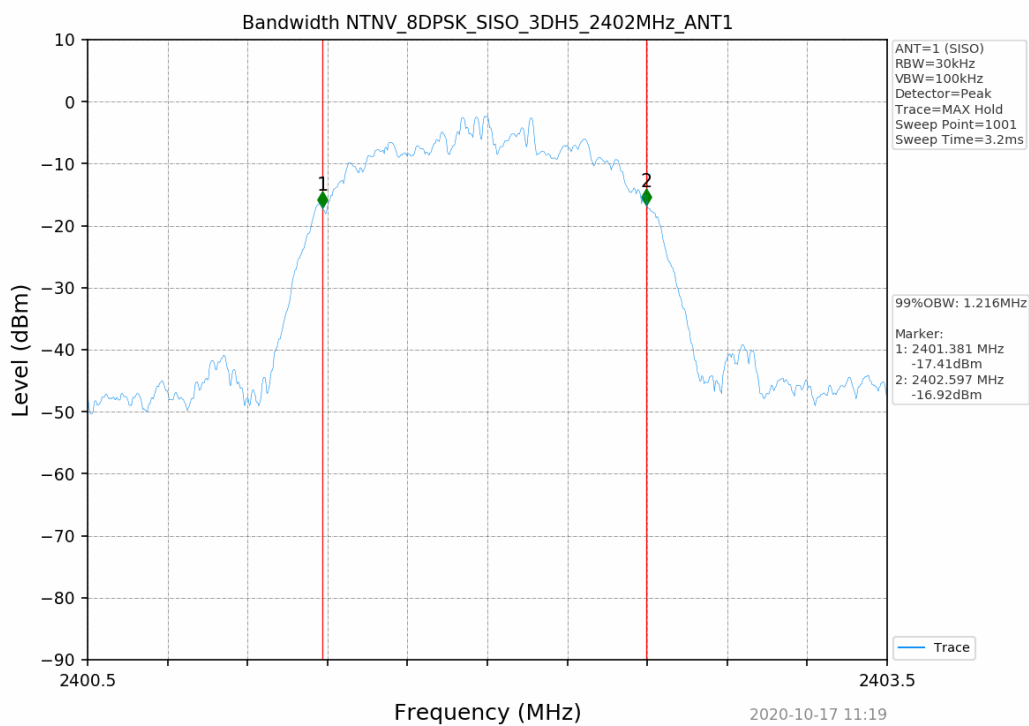
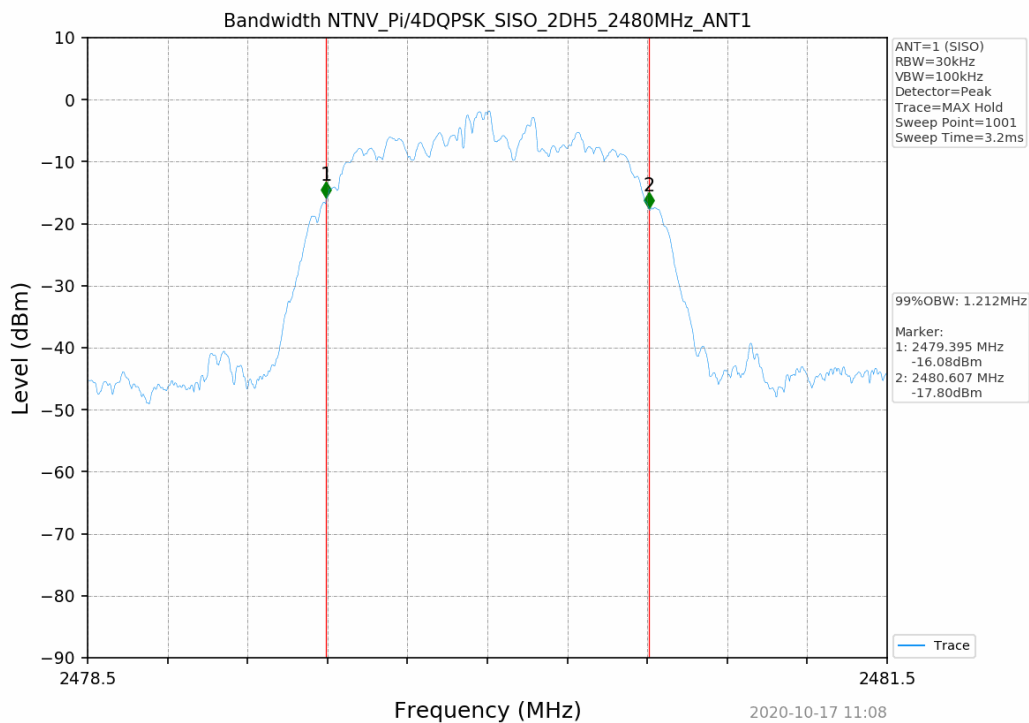


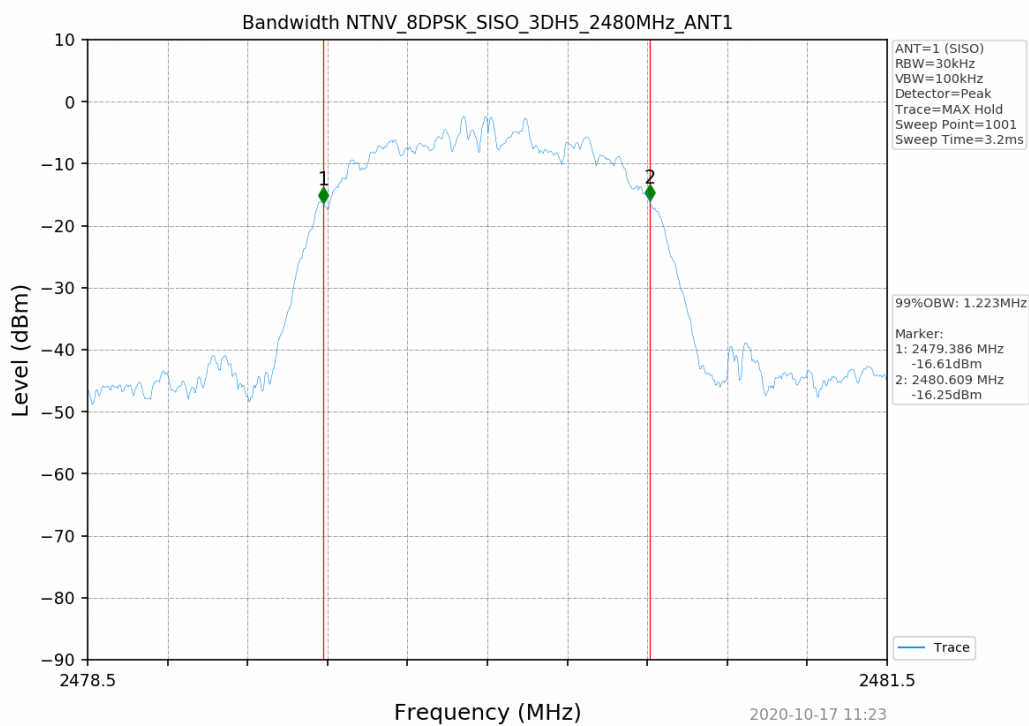
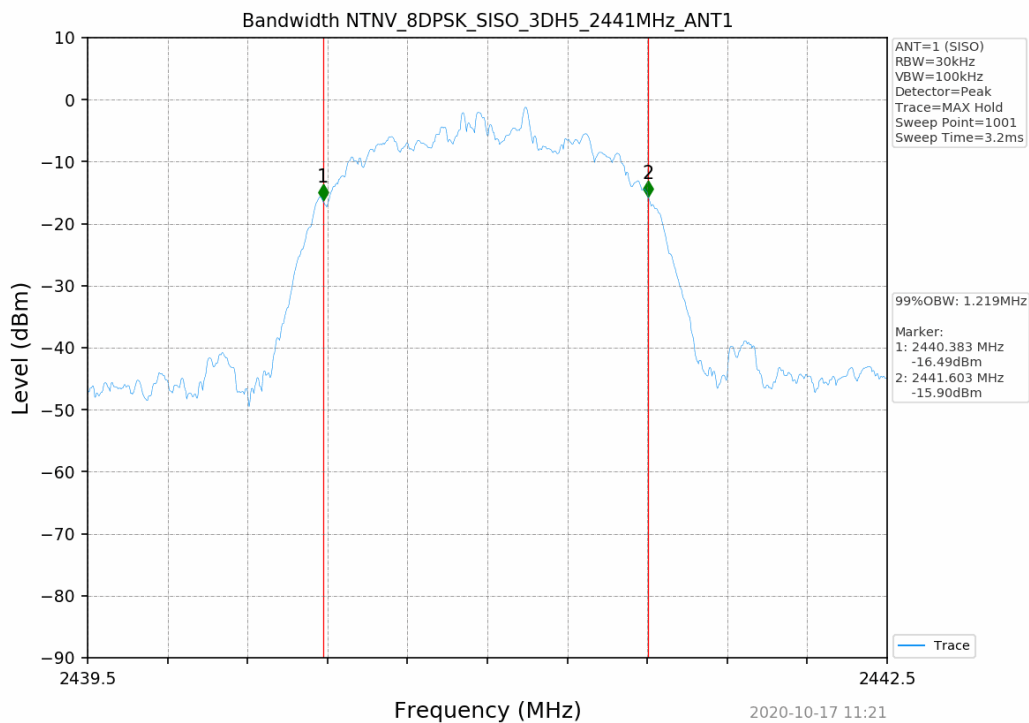
1.3 Test Graph - 99% Occupied Bandwidth









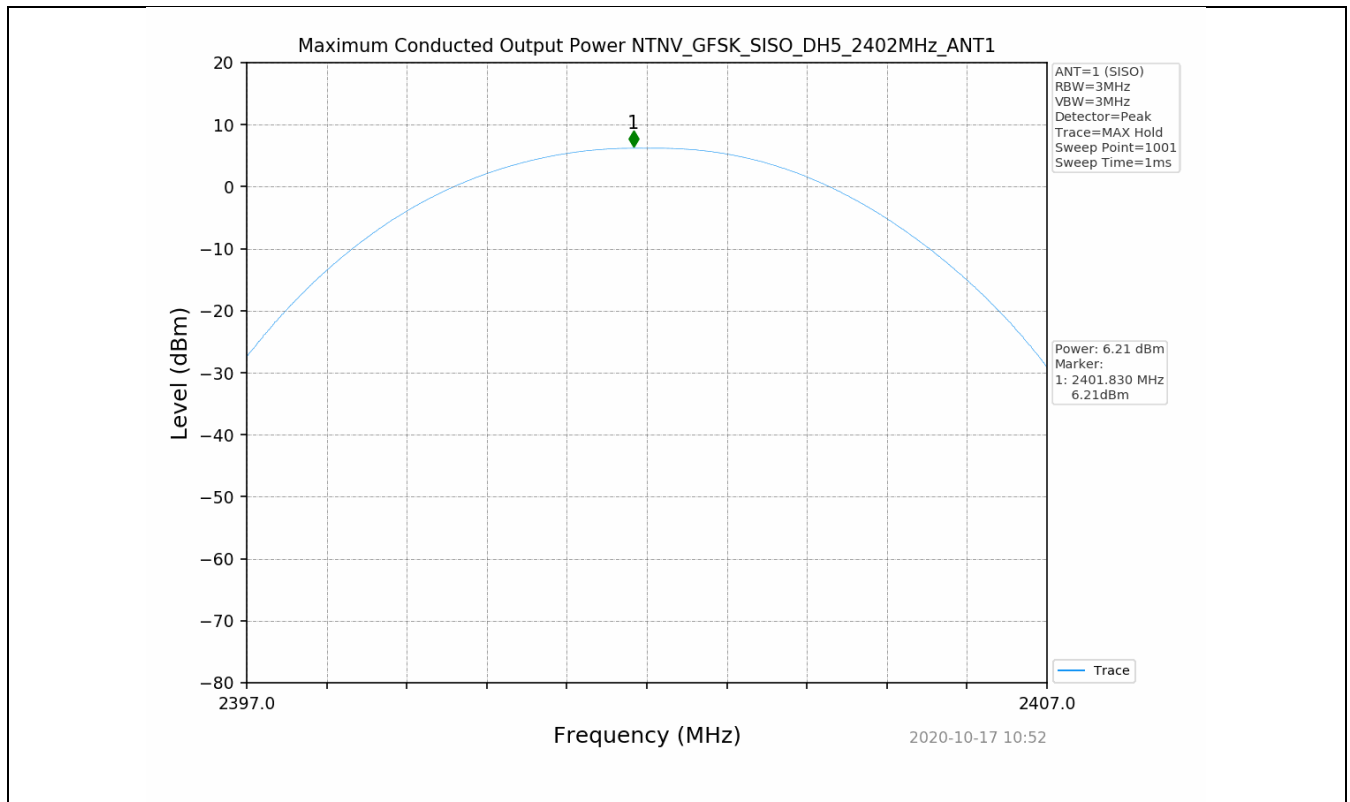


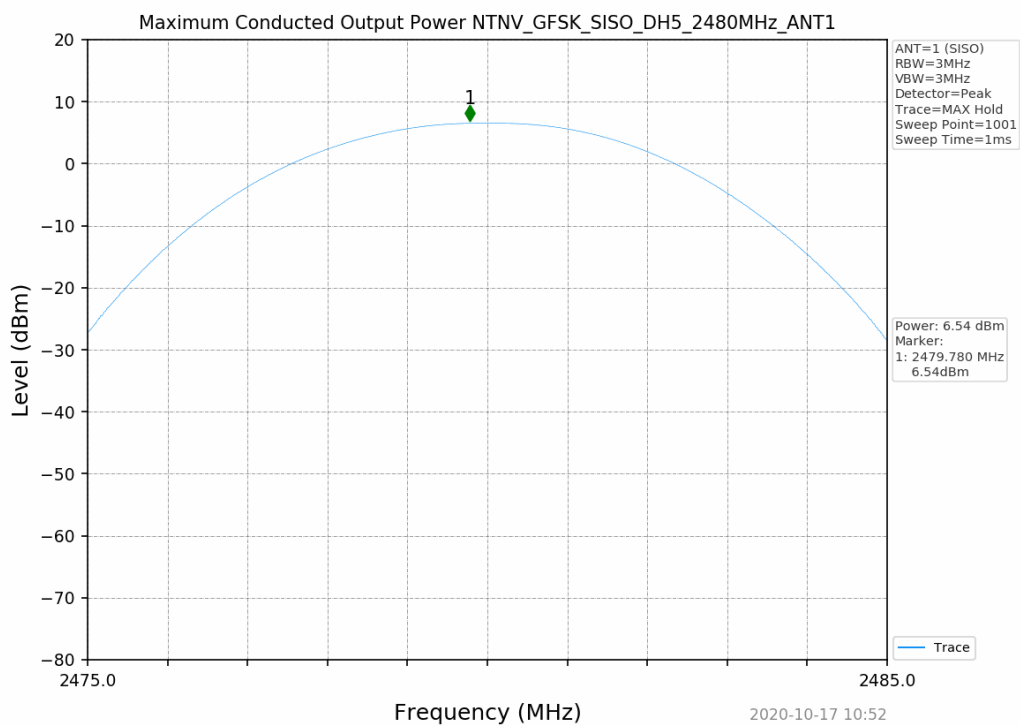
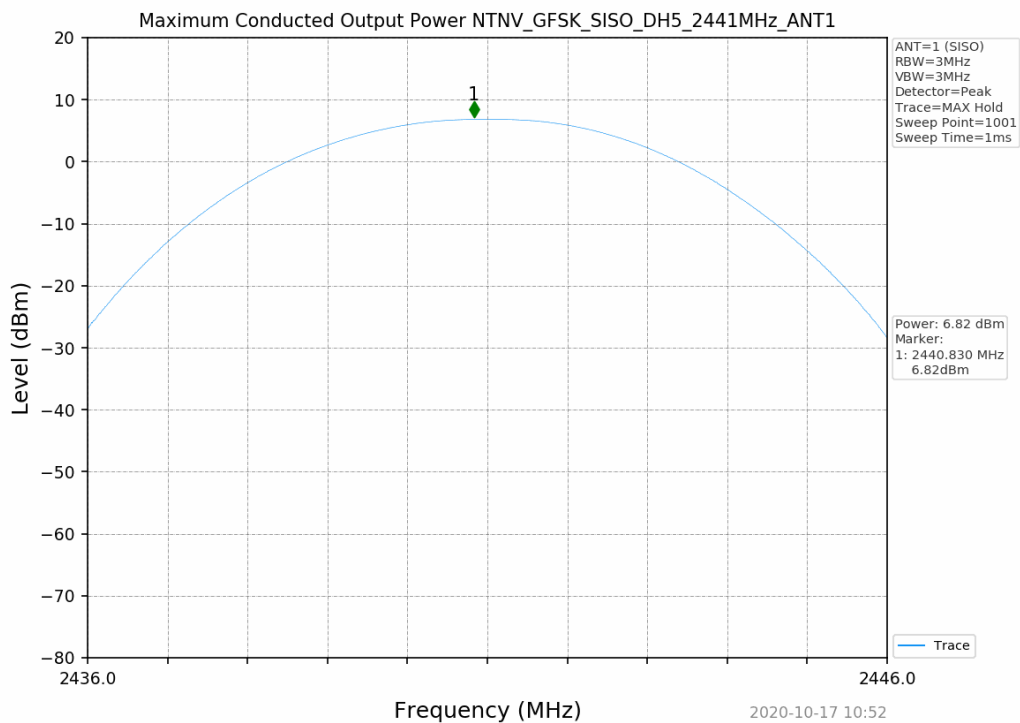
2. Maximum Conducted Output Power

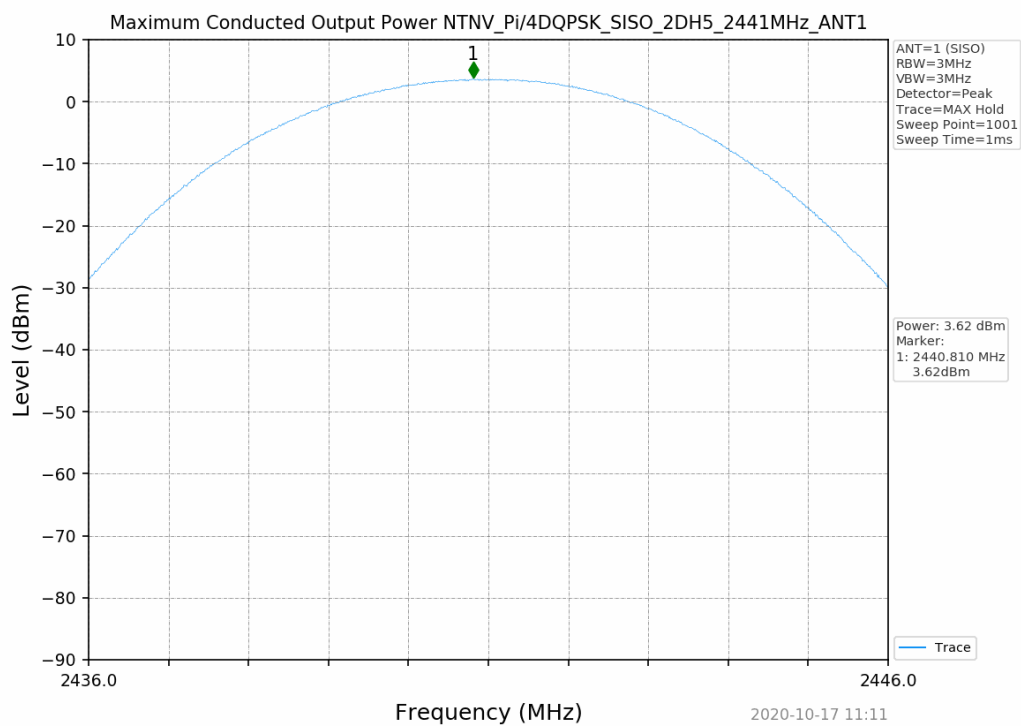
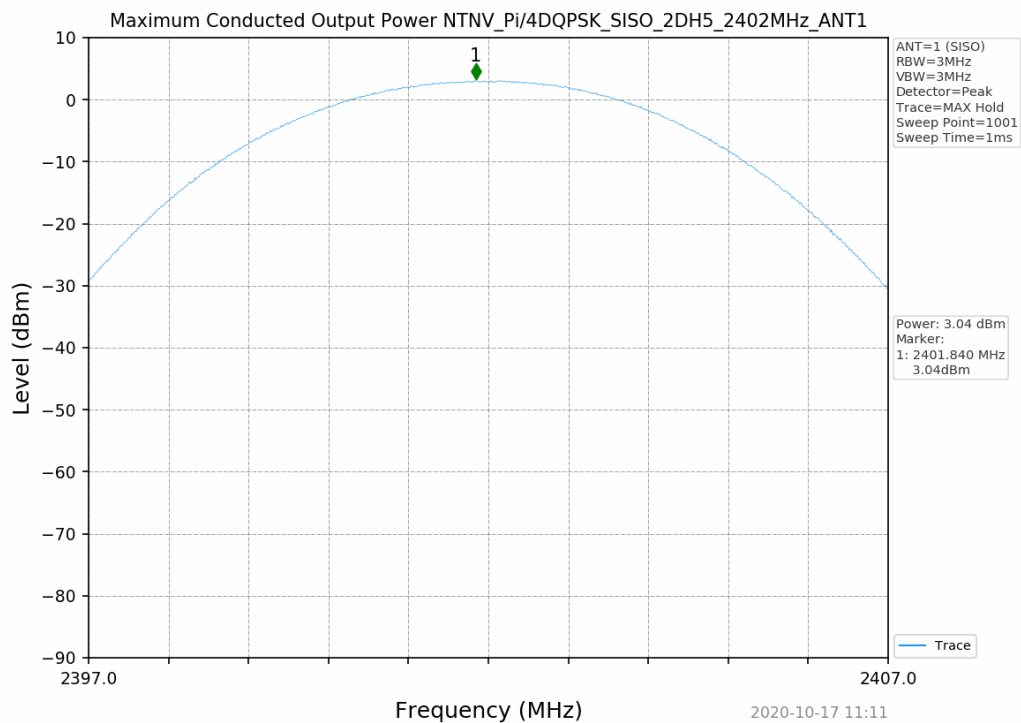
2.1 Test Result

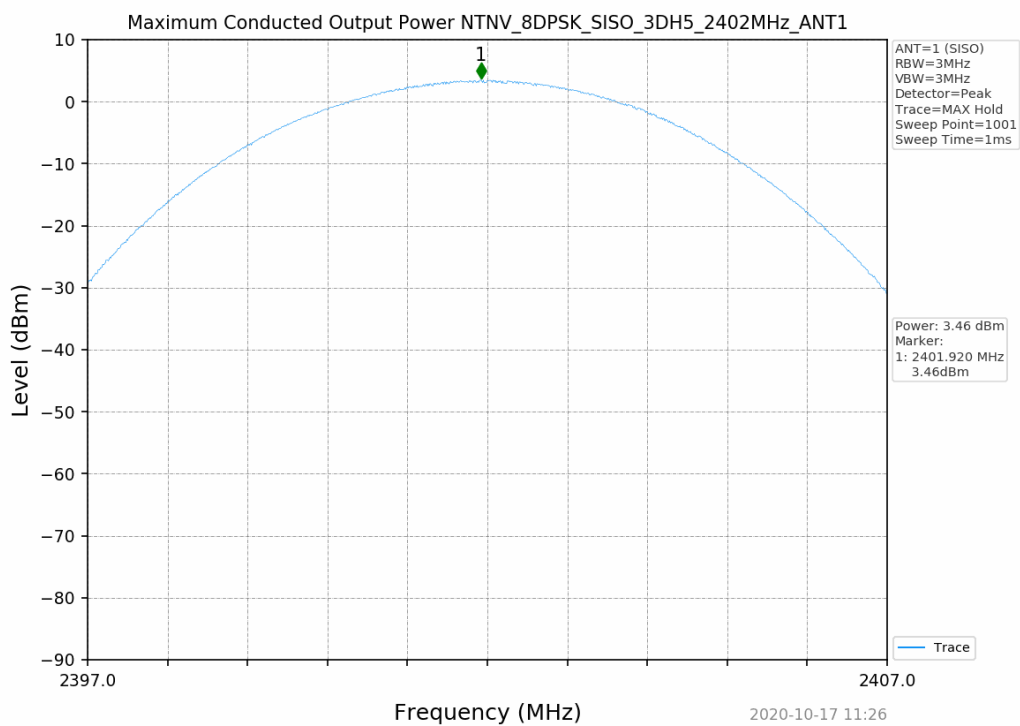
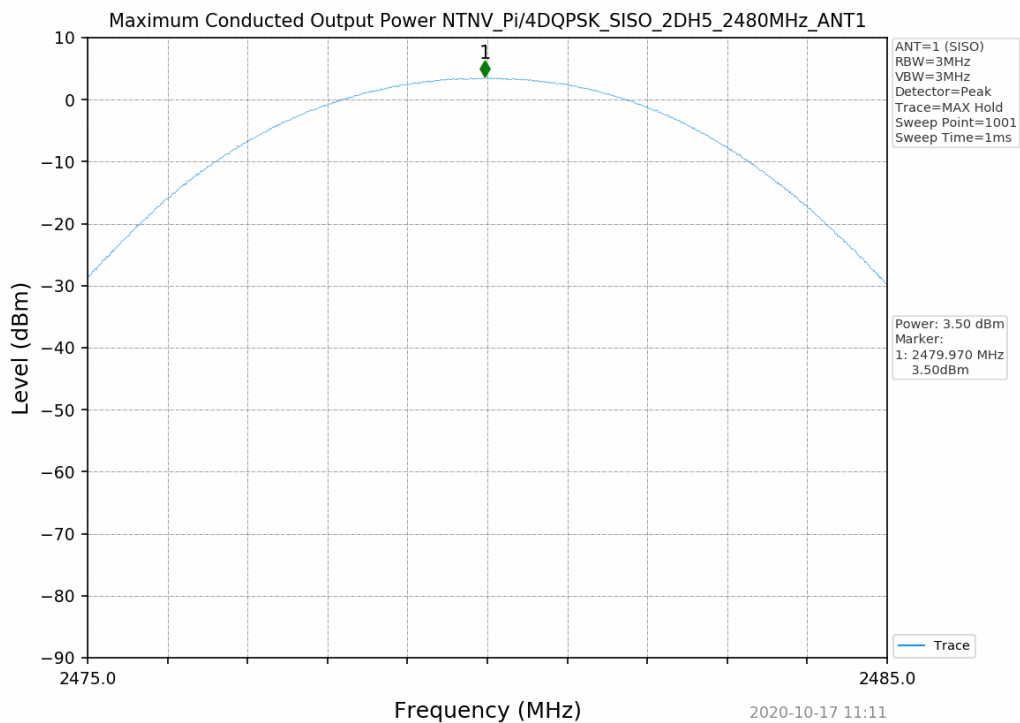
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	6.21	20.97	PASS
	2441	SISO	6.82	20.97	PASS
	2480	SISO	6.54	20.97	PASS
Pi/4DQPSK	2402	SISO	3.04	20.97	PASS
	2441	SISO	3.62	20.97	PASS
	2480	SISO	3.50	20.97	PASS
8DPSK	2402	SISO	3.46	20.97	PASS
	2441	SISO	4.04	20.97	PASS
	2480	SISO	3.89	20.97	PASS

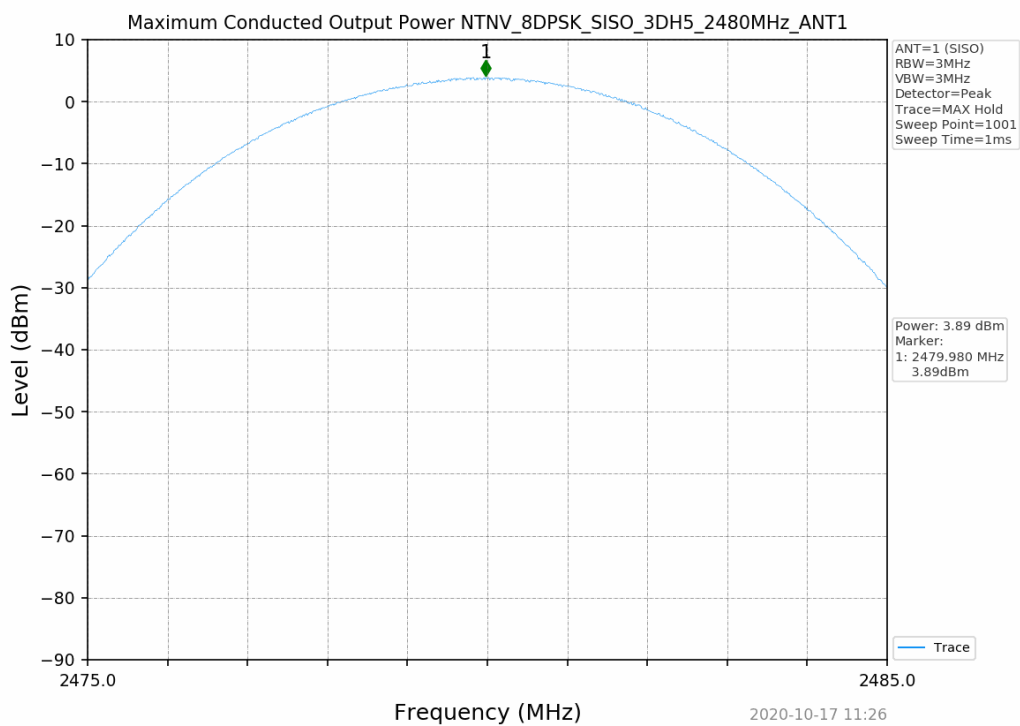
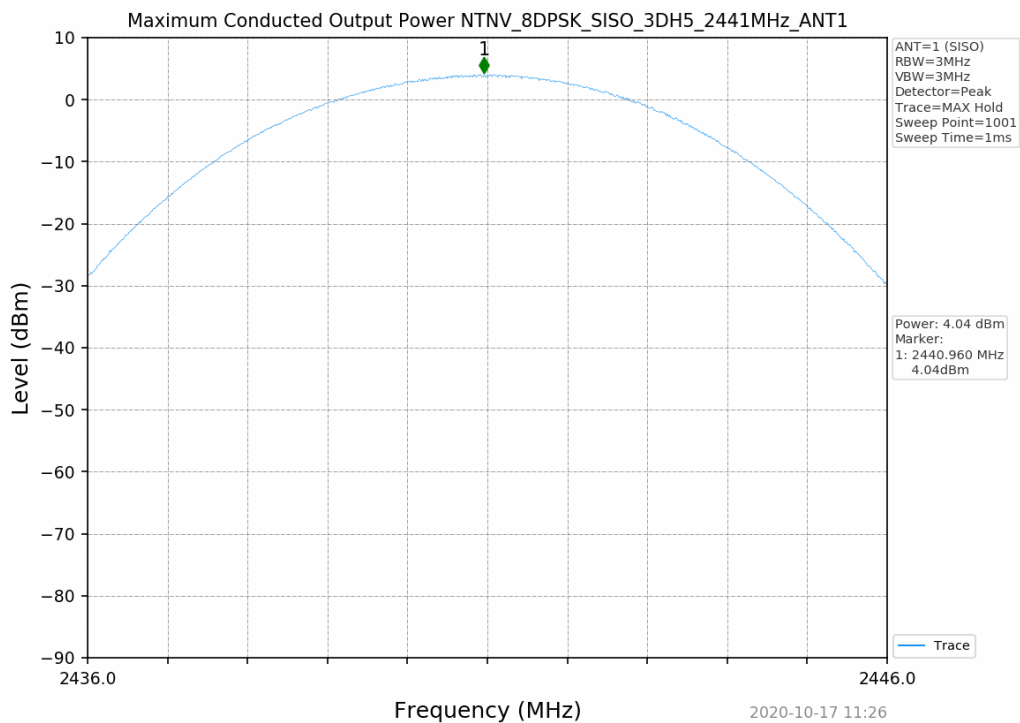
2.2 Test Graph









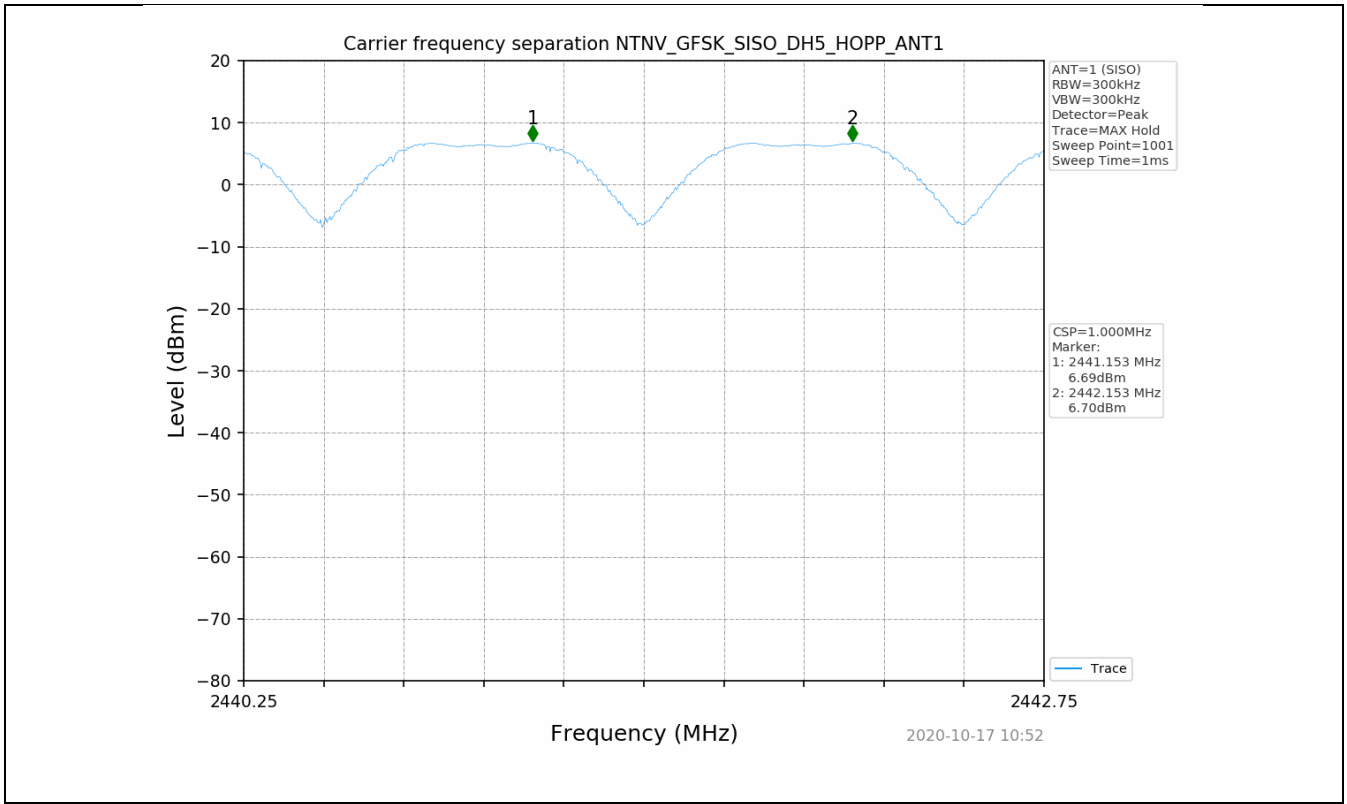


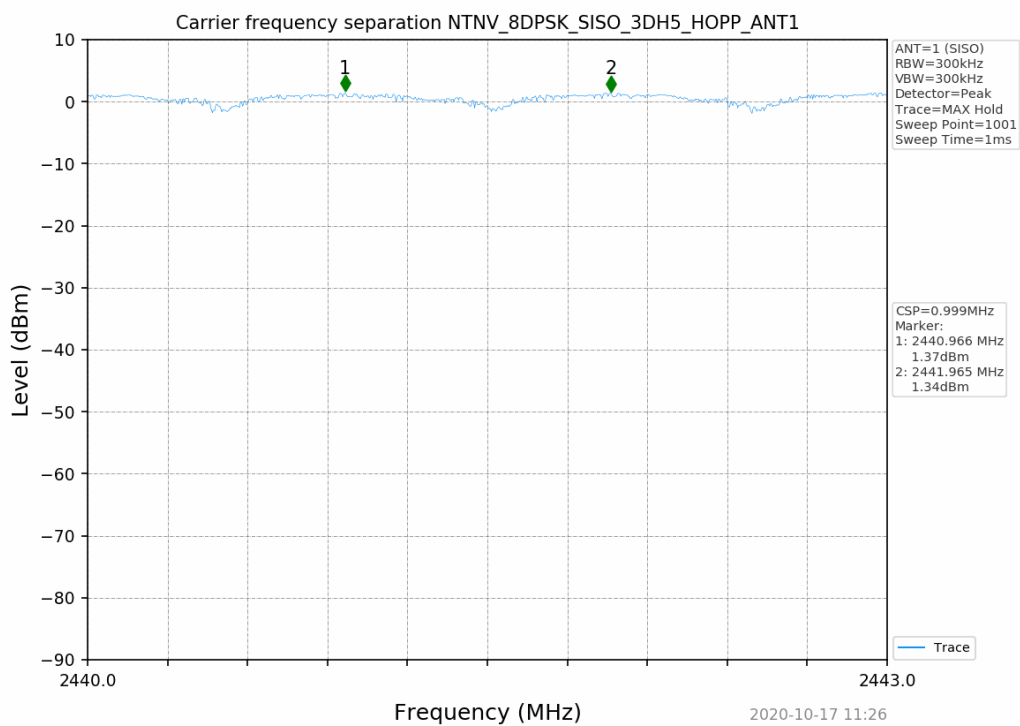
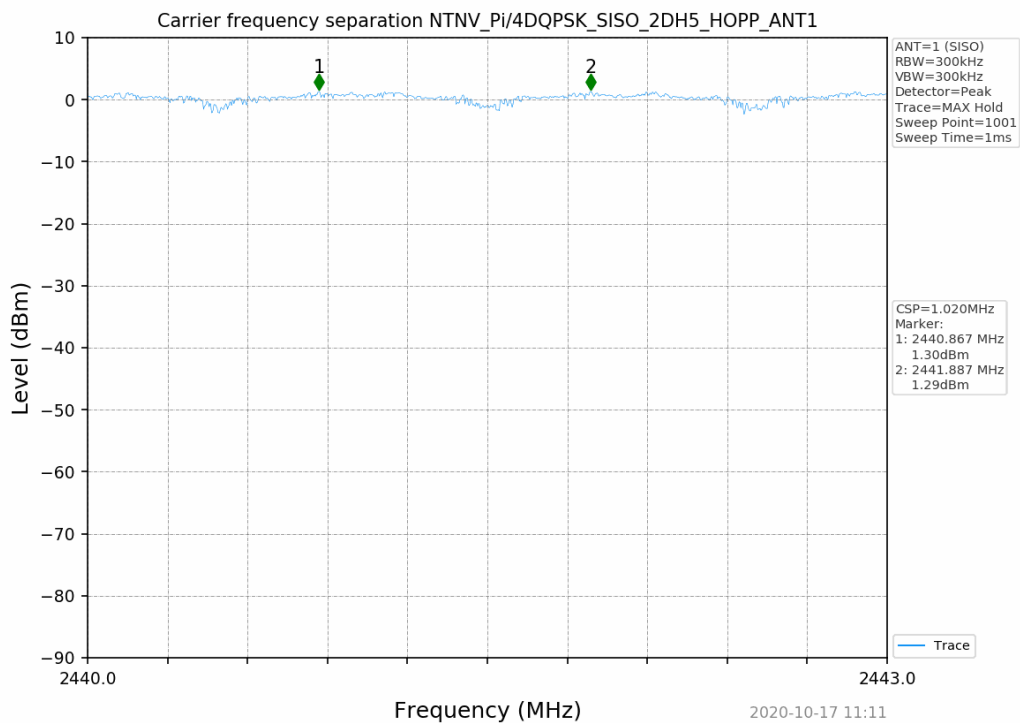
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	1.058	≥ 0.705	PASS
Pi/4DQPSK	SISO	1	1.020	1.361	≥ 0.907	PASS
8DPSK	SISO	1	0.999	1.345	≥ 0.897	PASS

3.2 Test Graph



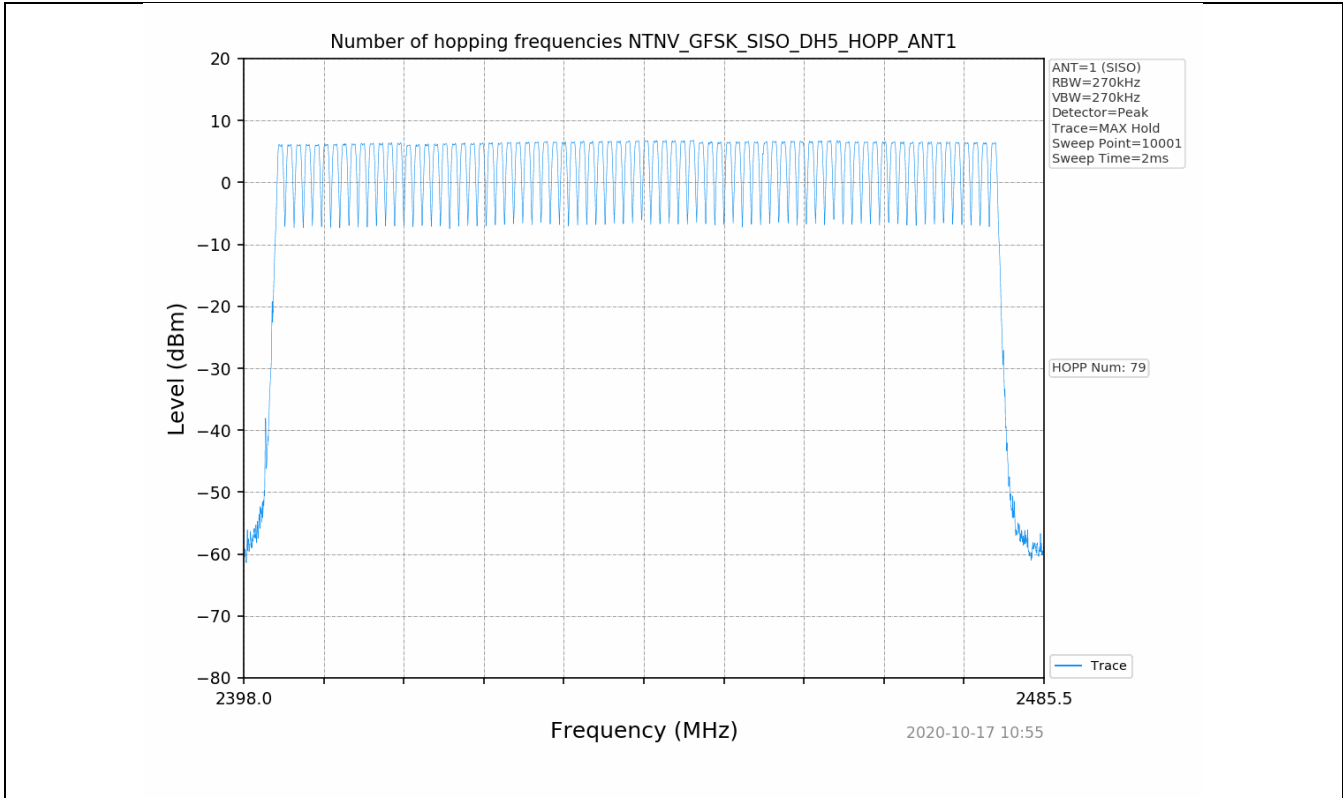


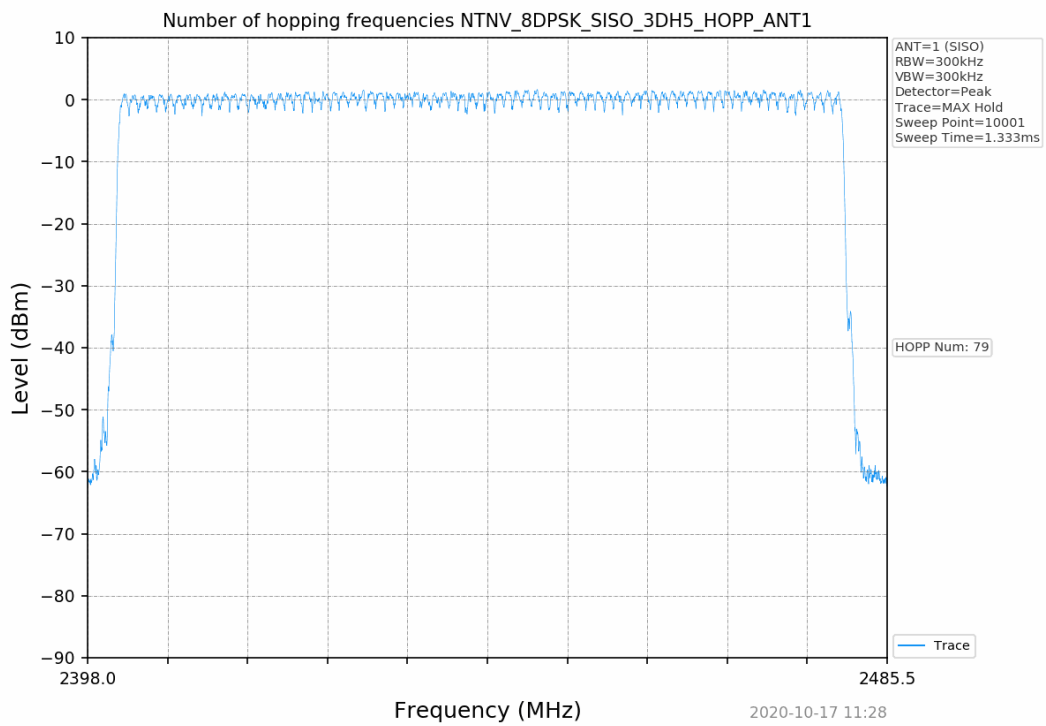
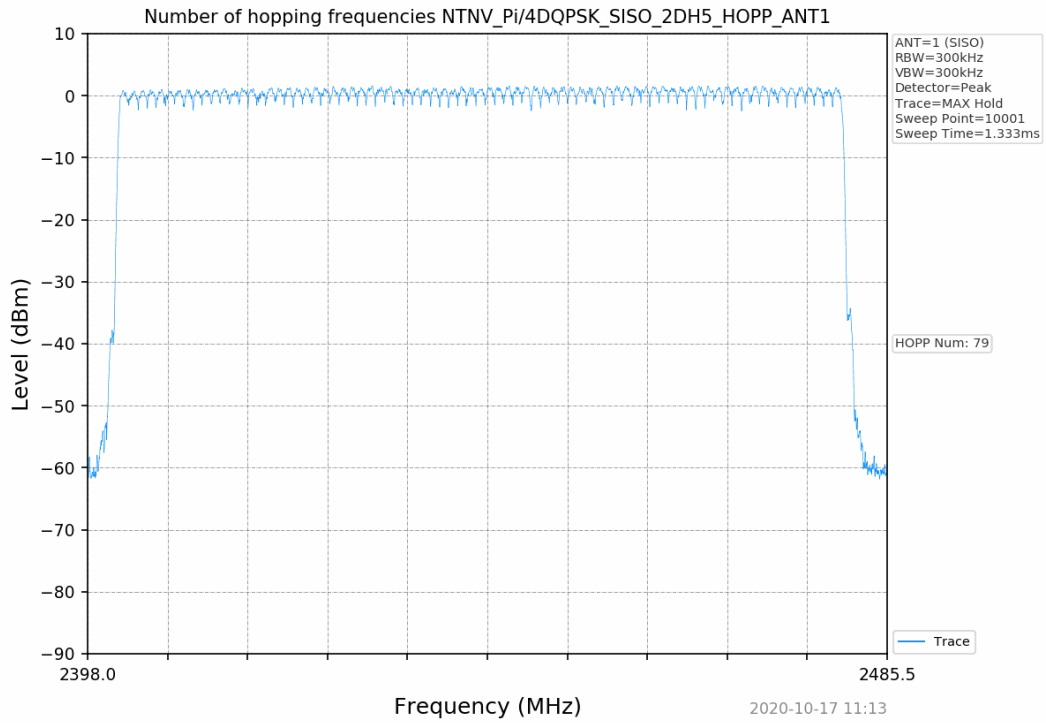
4. Number of hopping frequencies

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



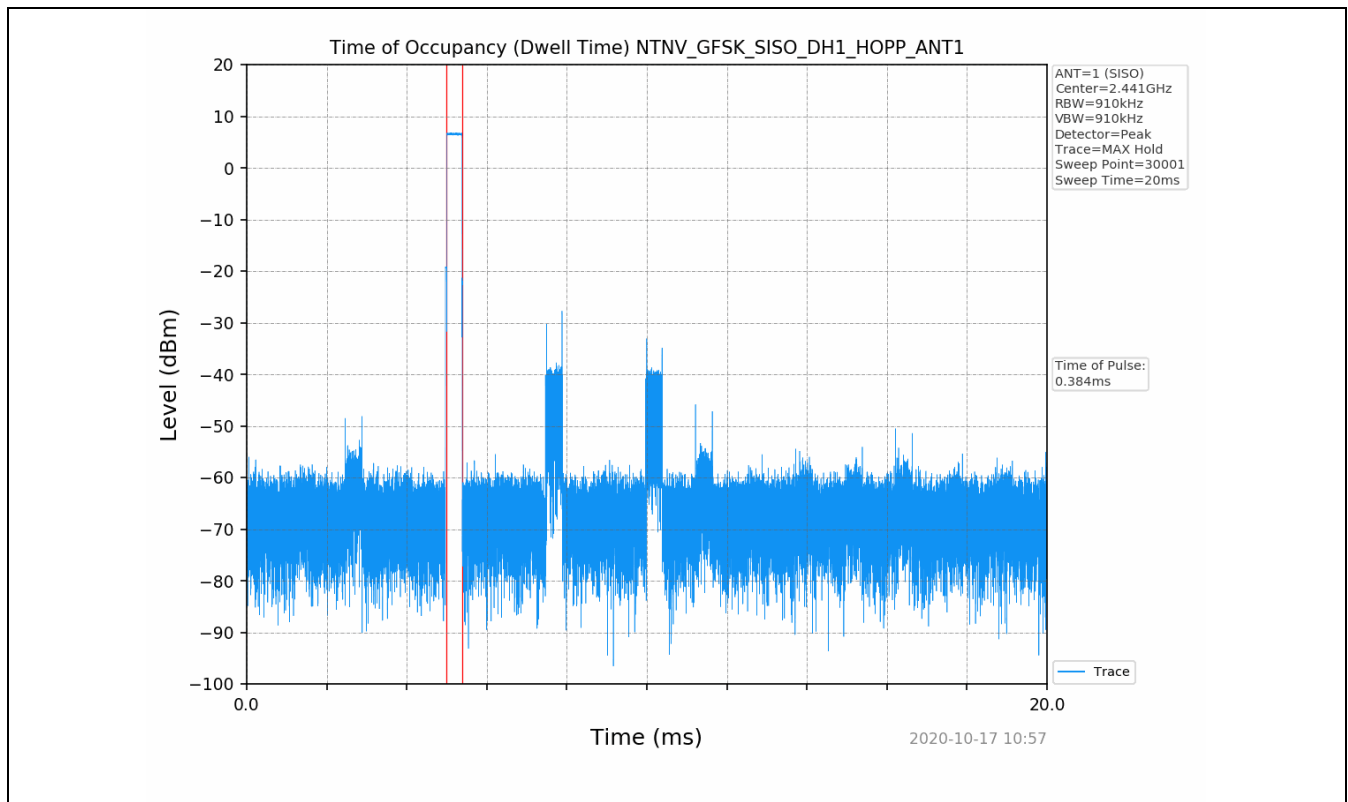


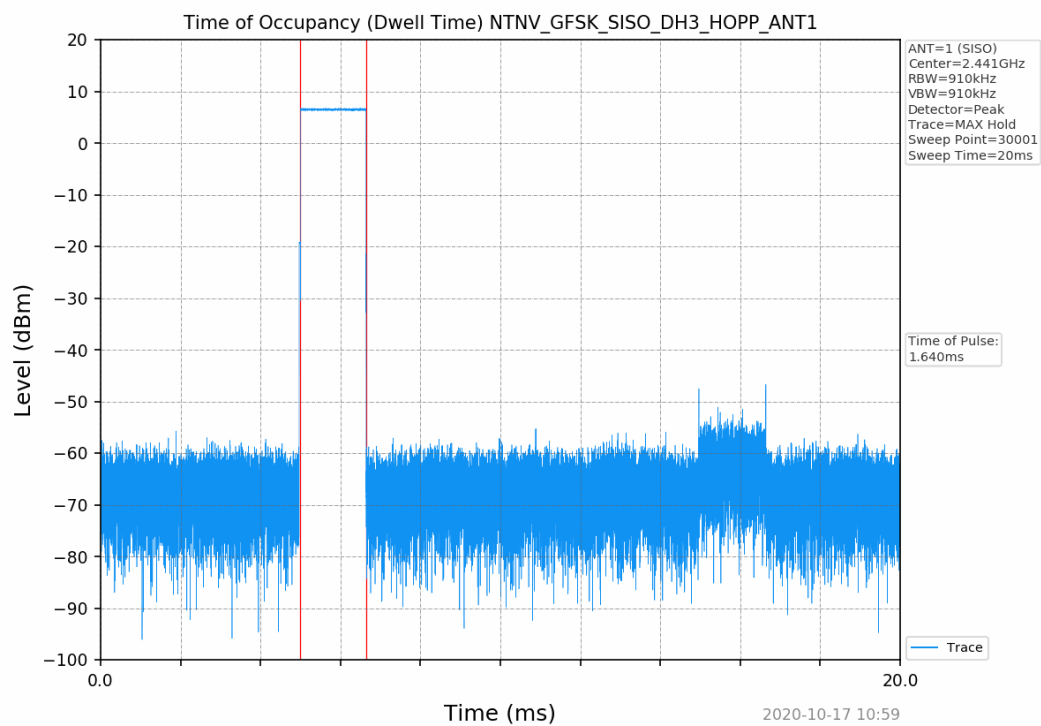
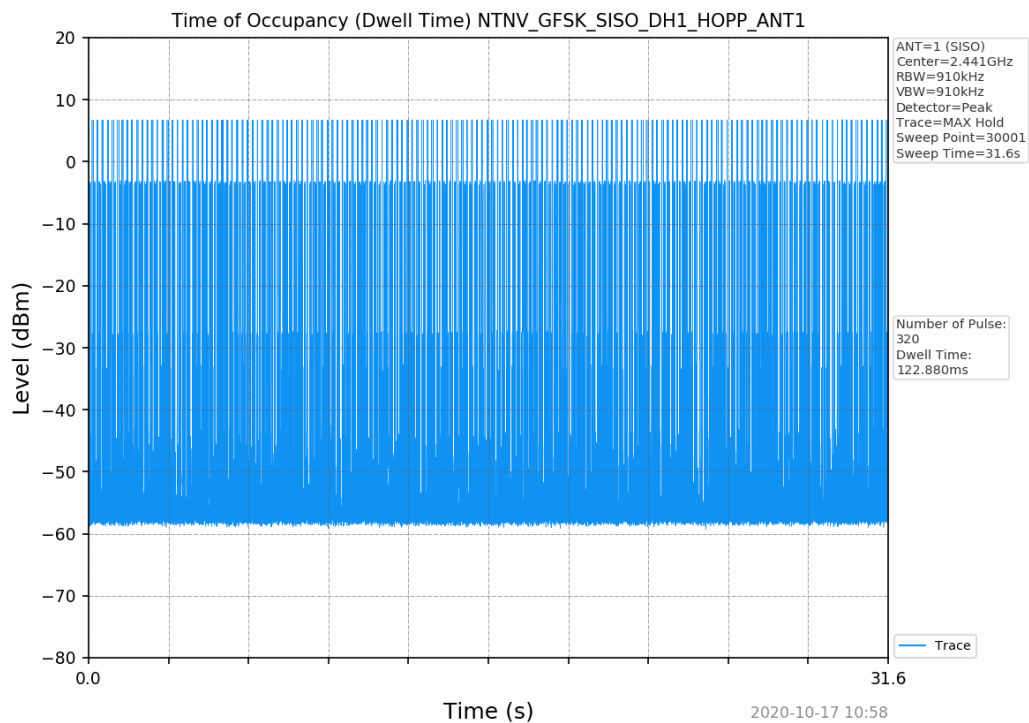
5. Time of Occupancy (Dwell Time)

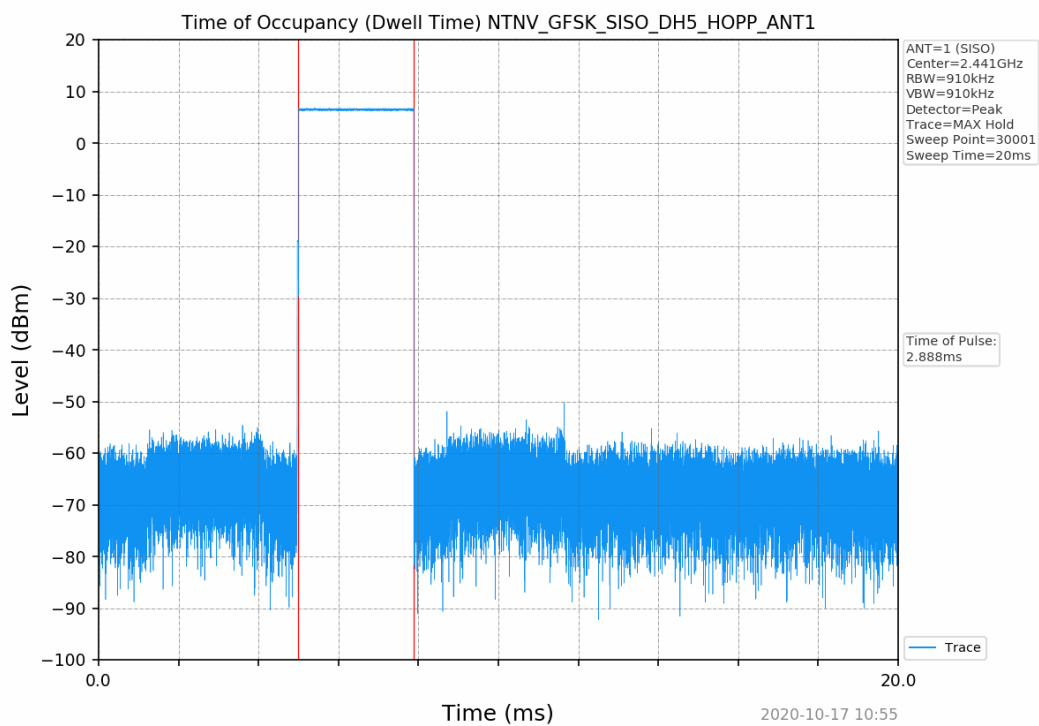
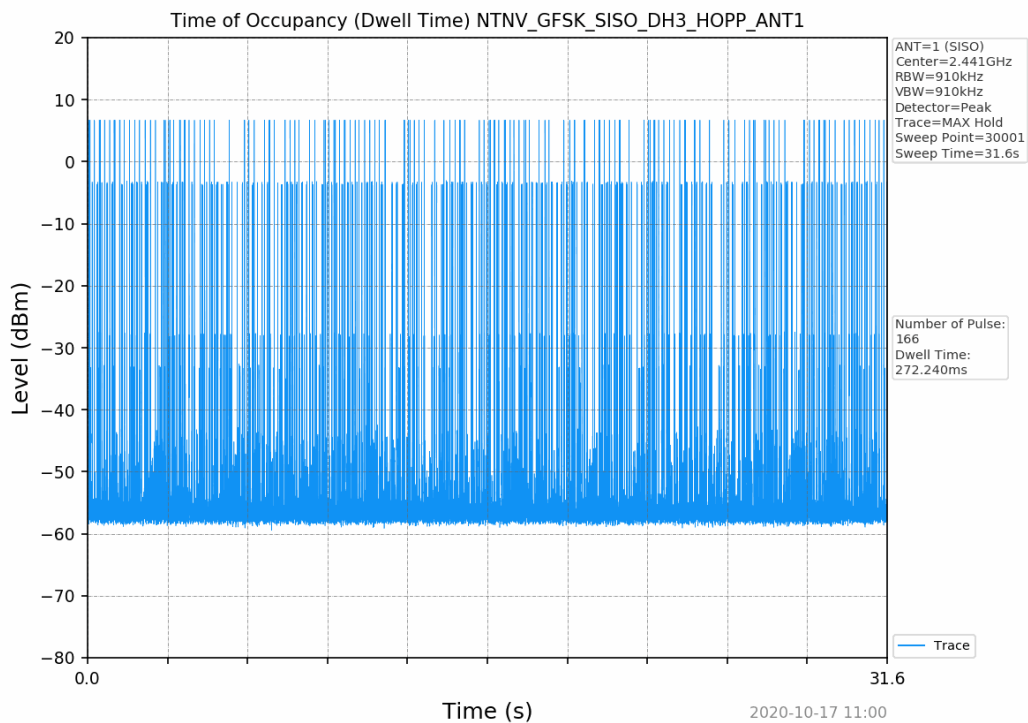
5.1 Test Result

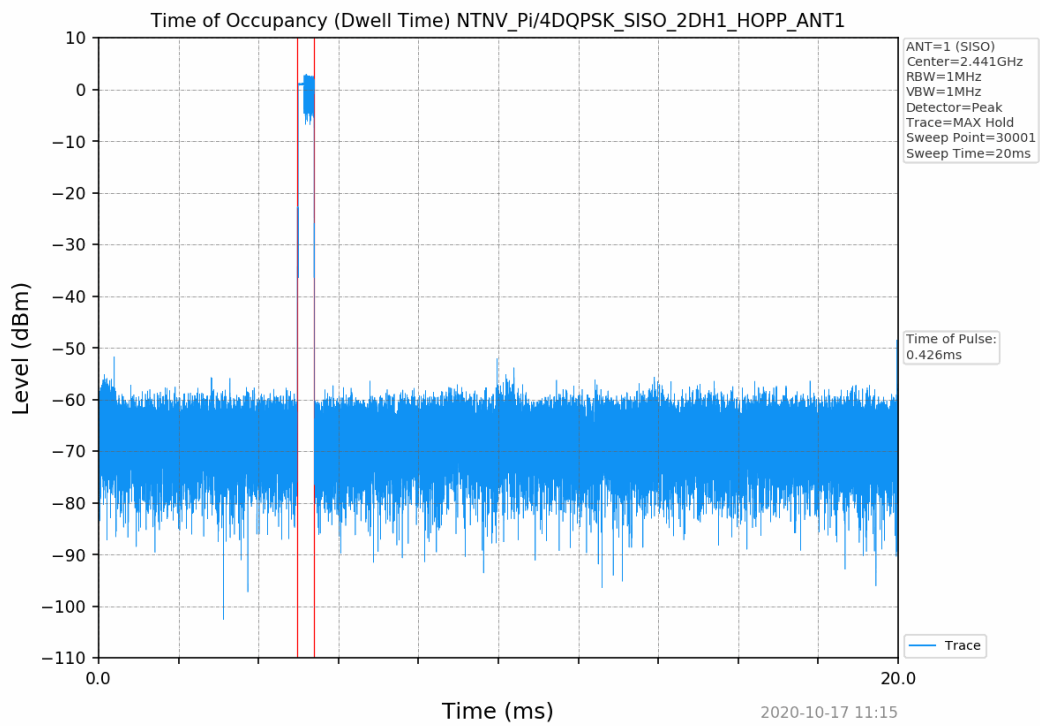
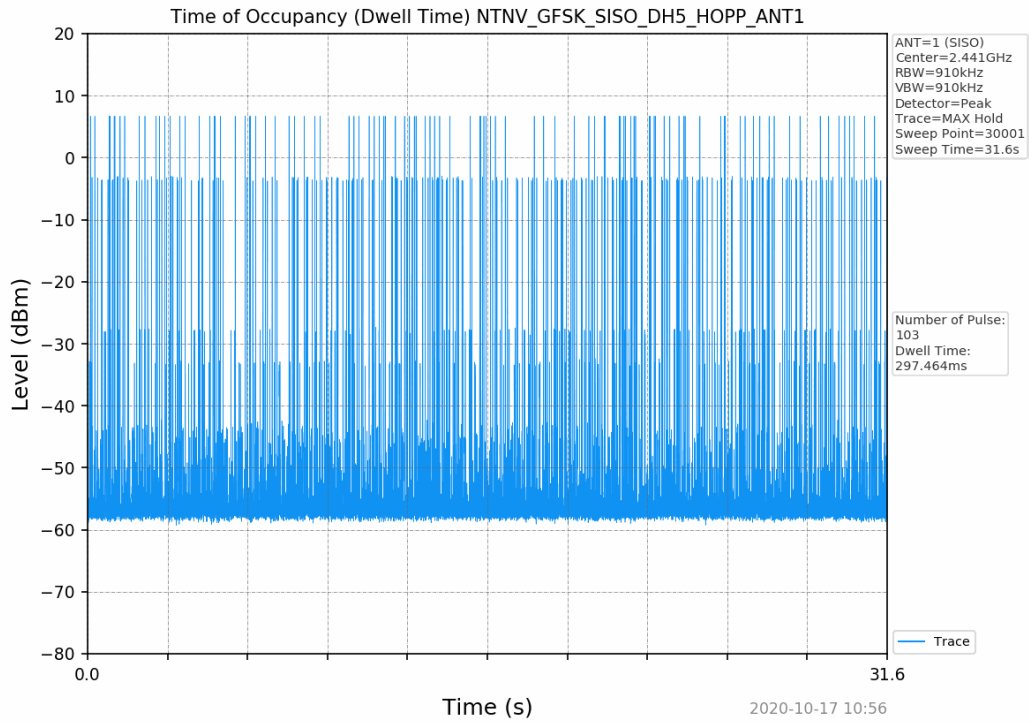
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.384	31.6	320	122.880	≤400	PASS
	DH3	SISO	1	1.640	31.6	166	272.240	≤400	PASS
	DH5	SISO	1	2.888	31.6	103	297.464	≤400	PASS
Pi/4DQPSK	2DH1	SISO	1	0.426	31.6	319	135.894	≤400	PASS
	2DH3	SISO	1	1.642	31.6	165	270.930	≤400	PASS
	2DH5	SISO	1	2.890	31.6	116	335.240	≤400	PASS
8DPSK	3DH1	SISO	1	0.390	31.6	320	124.800	≤400	PASS
	3DH3	SISO	1	1.642	31.6	168	275.856	≤400	PASS
	3DH5	SISO	1	2.928	31.6	116	339.648	≤400	PASS

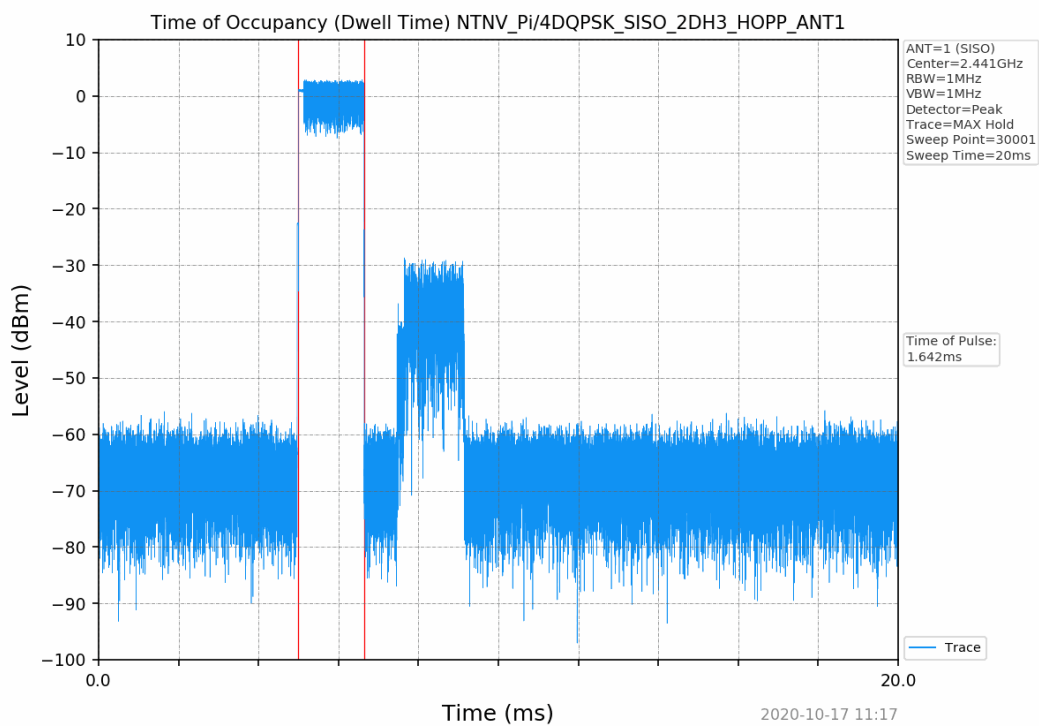
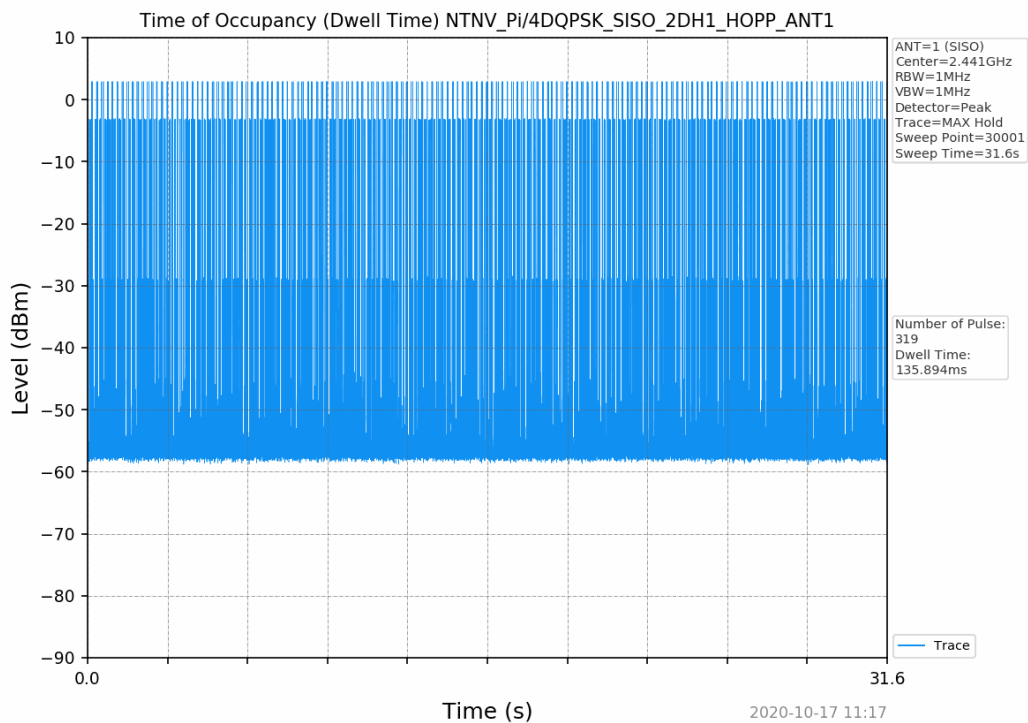
5.2 Test Graph

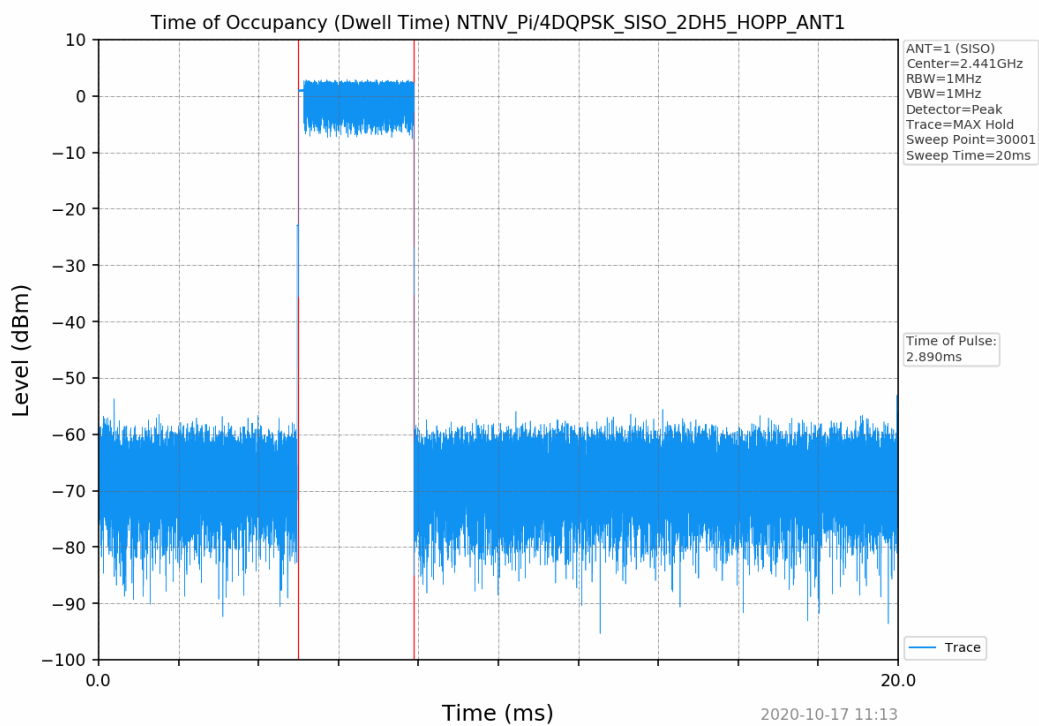
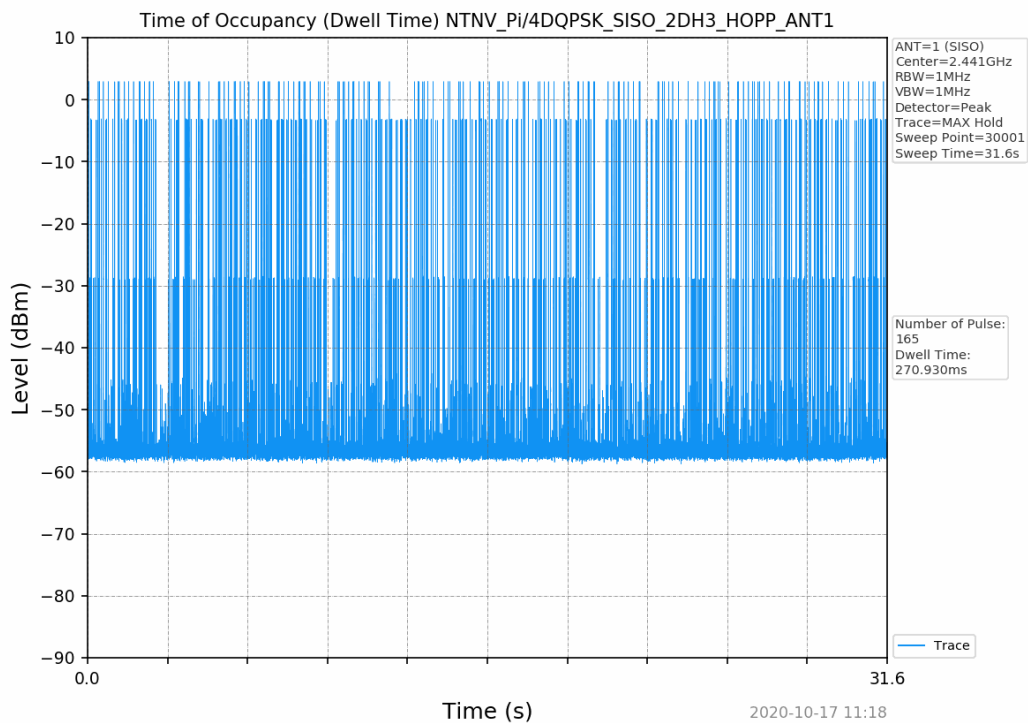


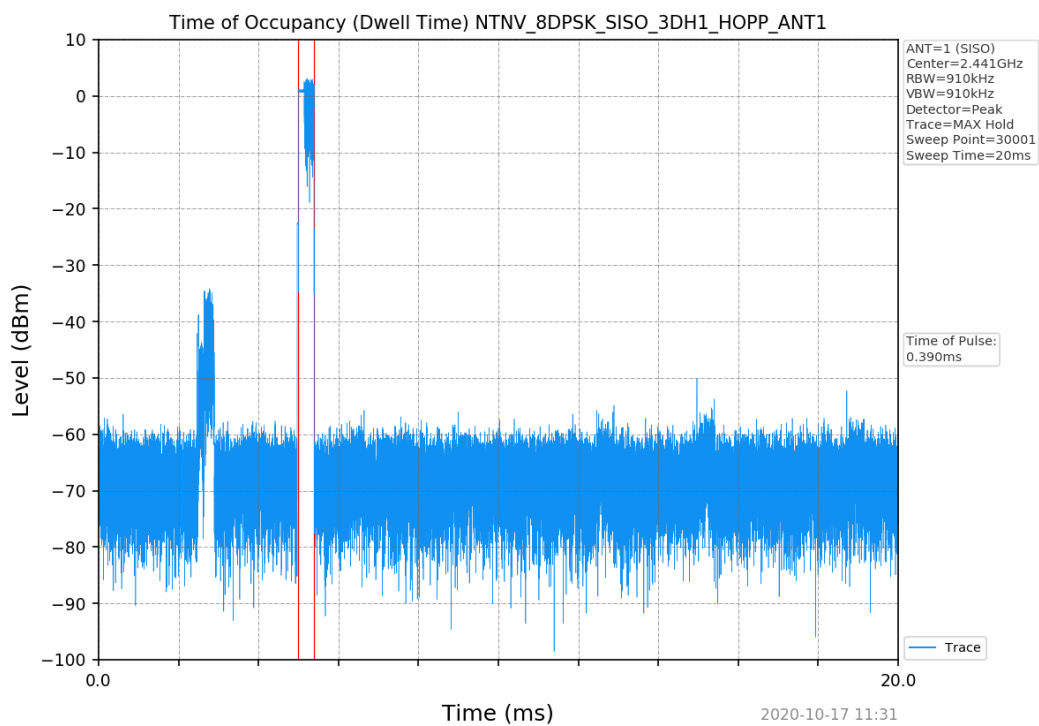
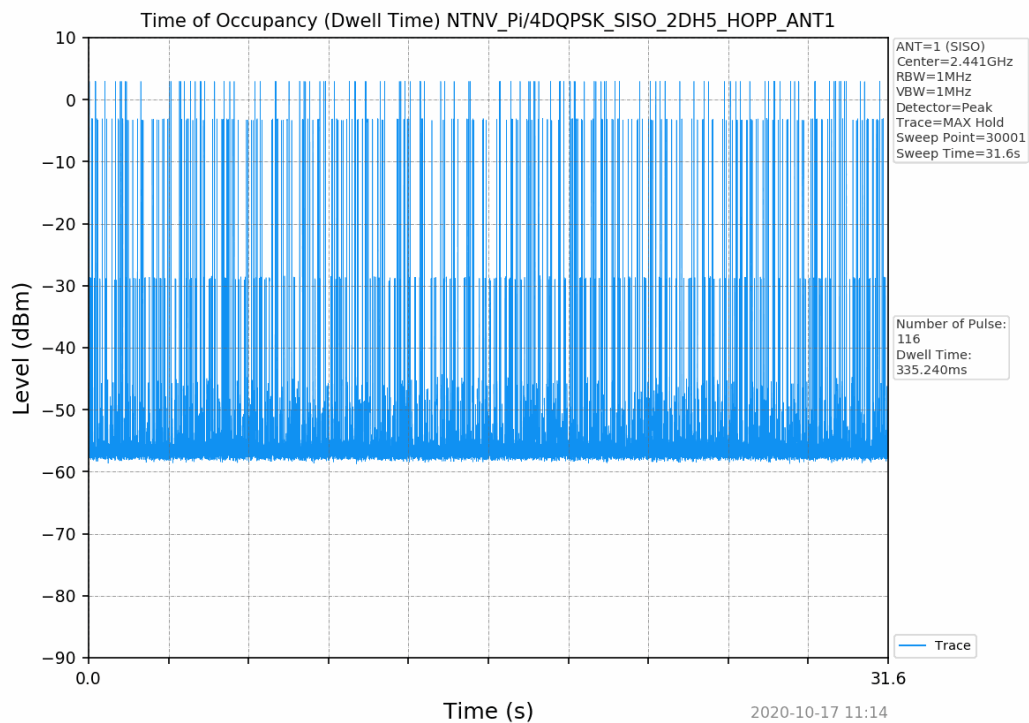


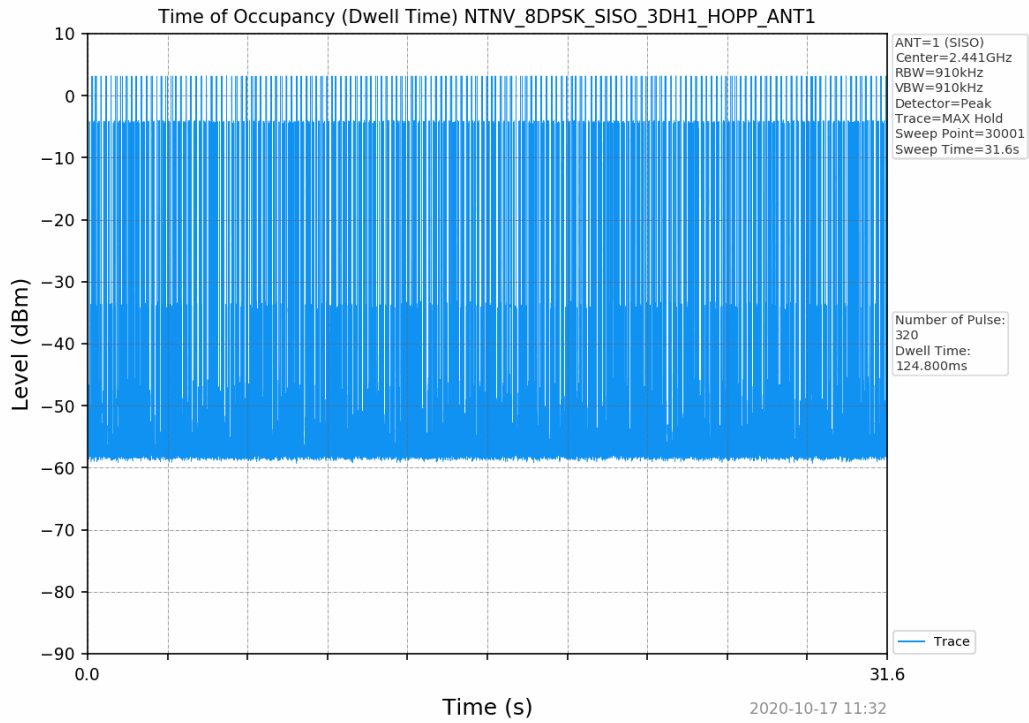


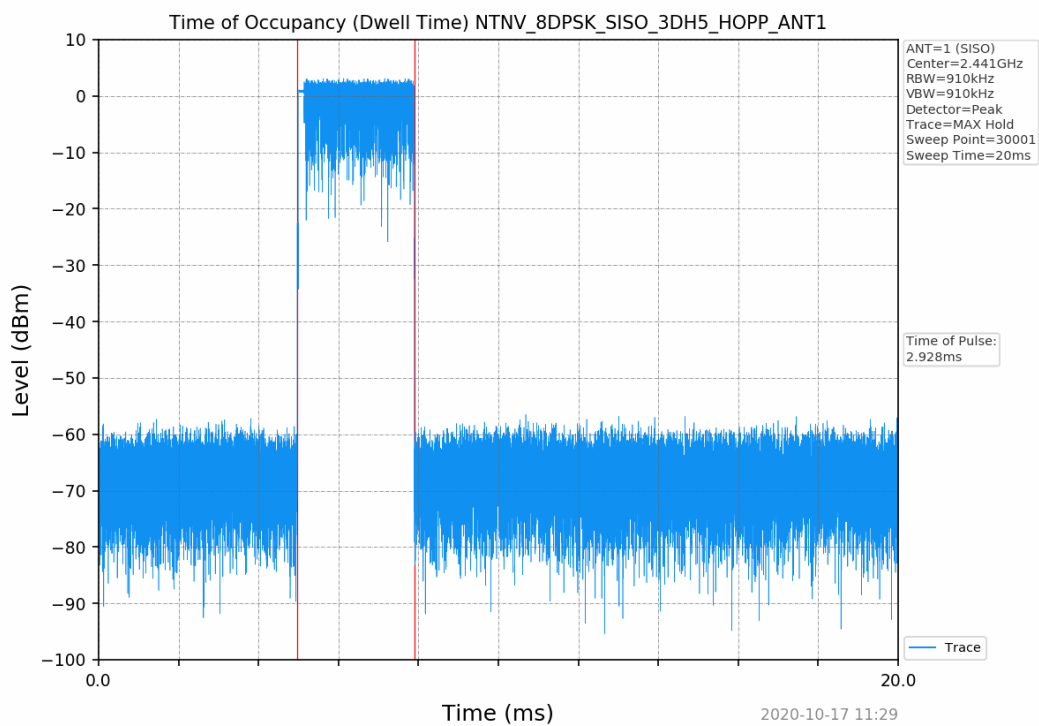
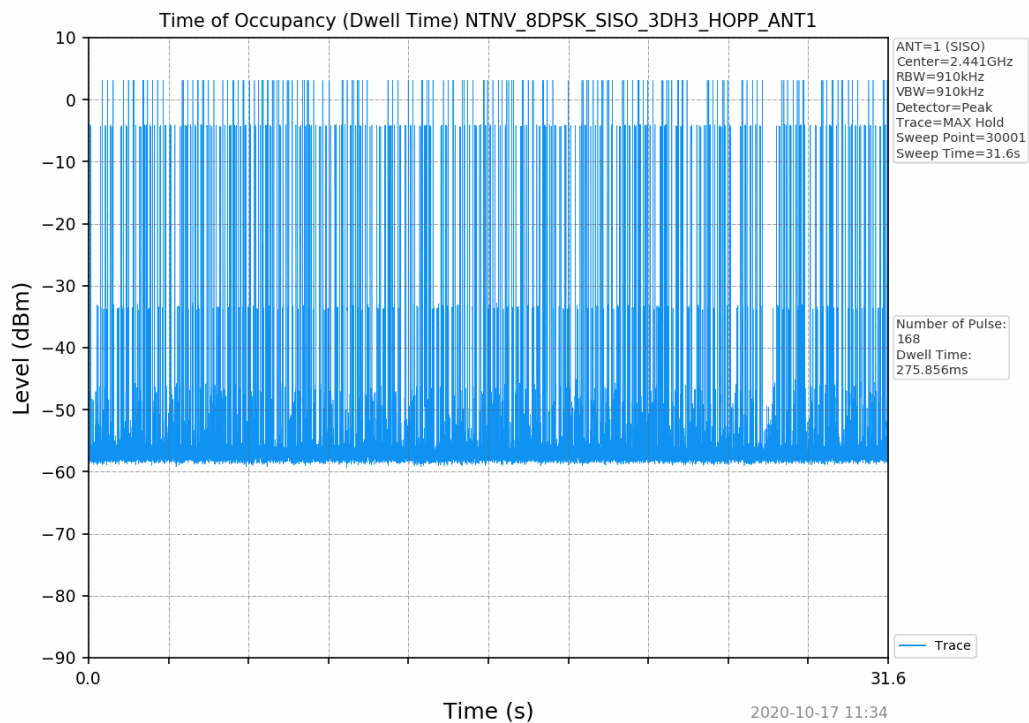


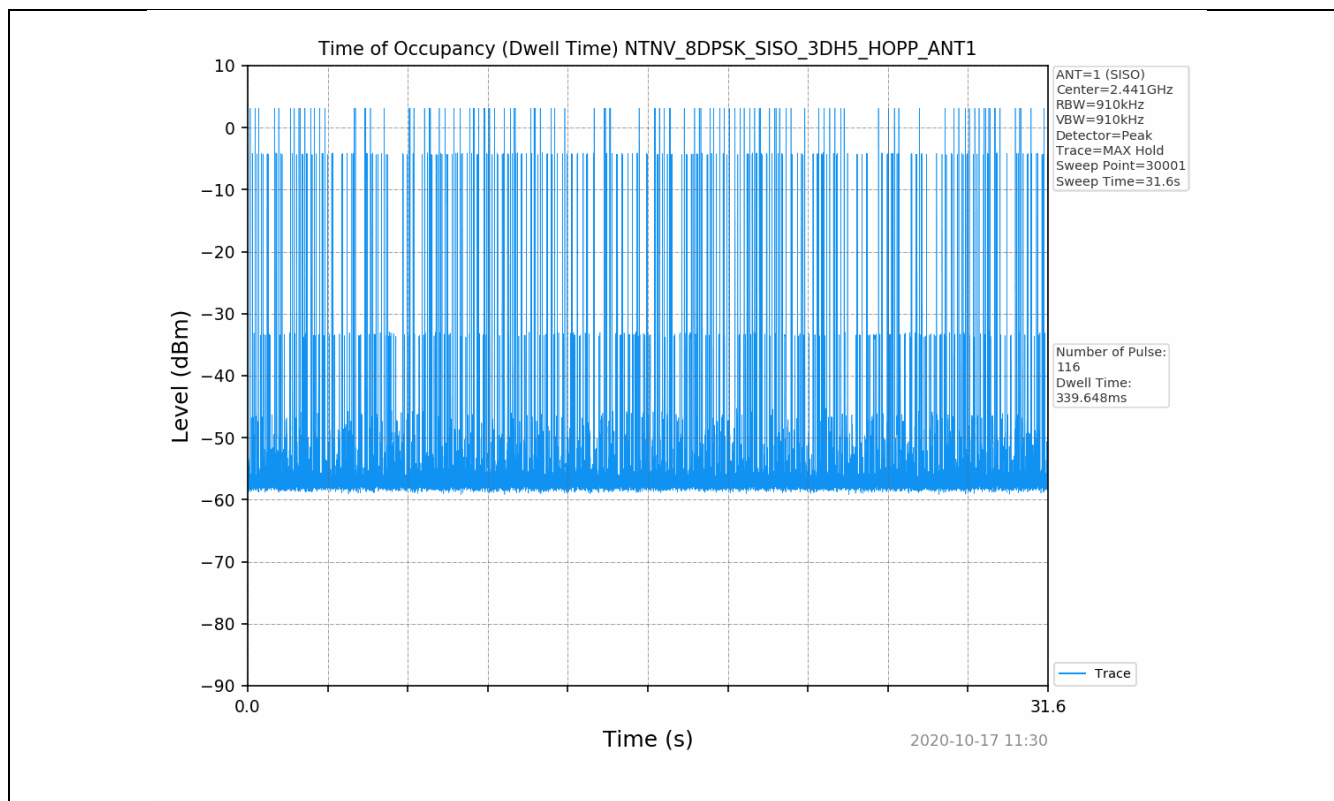










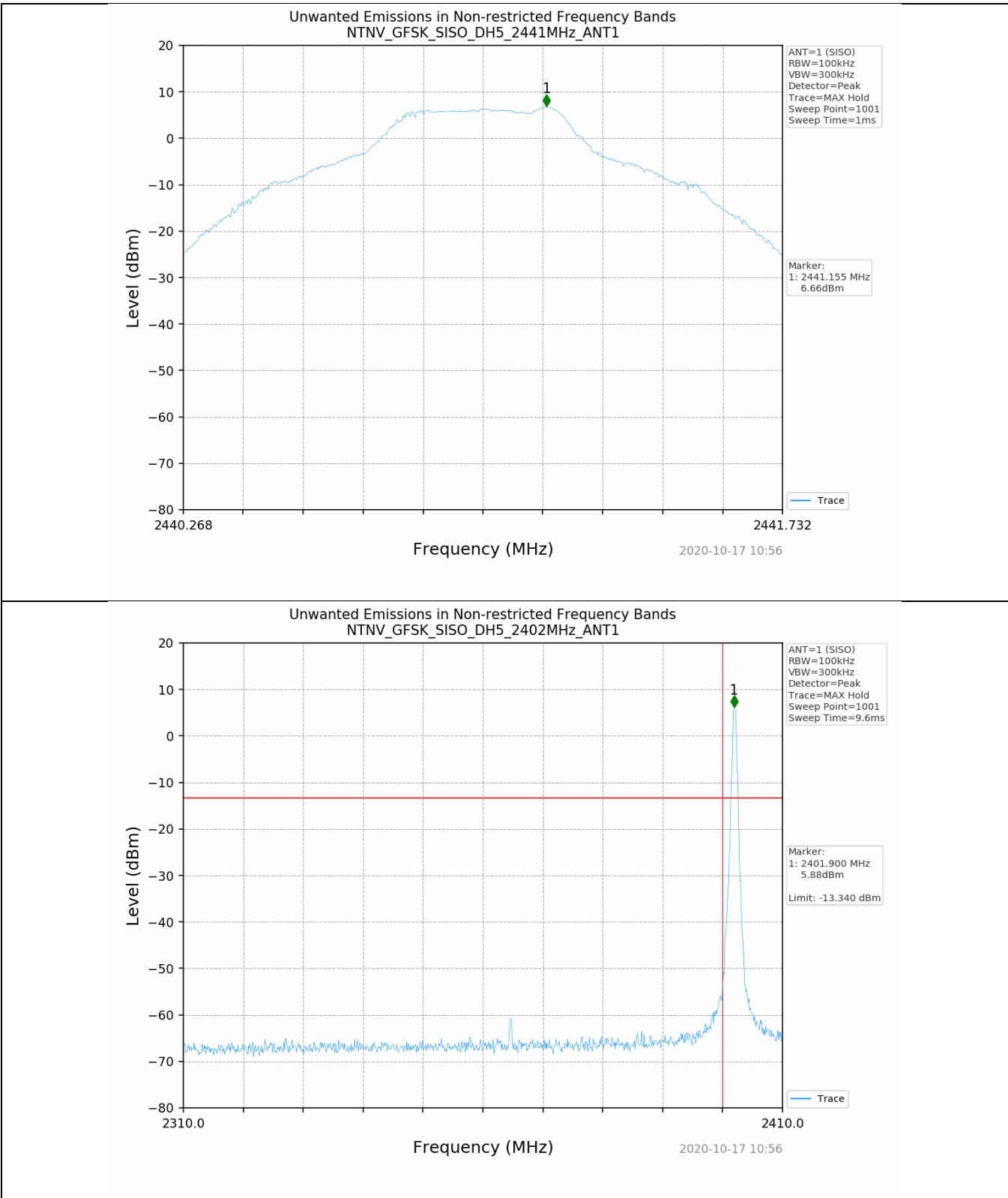


6. Unwanted Emissions in Non-restricted Frequency Bands

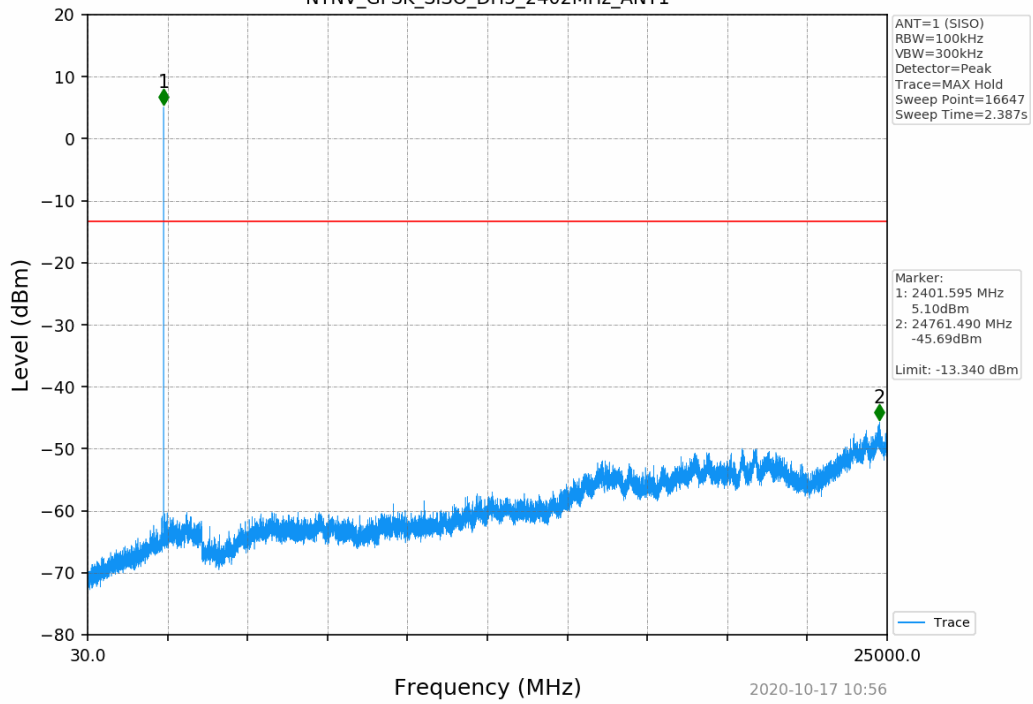
6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-13.34	PASS
	2441	SISO	1	Refer to test graph	-13.34	PASS
	2480	SISO	1	Refer to test graph	-13.34	PASS
	Hopping	SISO	1	Refer to test graph	-13.34	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-19.17	PASS
	2441	SISO	1	Refer to test graph	-19.17	PASS
	2480	SISO	1	Refer to test graph	-19.17	PASS
	Hopping	SISO	1	Refer to test graph	-19.17	PASS
8DPSK	2402	SISO	1	Refer to test graph	-18.94	PASS
	2441	SISO	1	Refer to test graph	-18.94	PASS
	2480	SISO	1	Refer to test graph	-18.94	PASS
	Hopping	SISO	1	Refer to test graph	-18.94	PASS

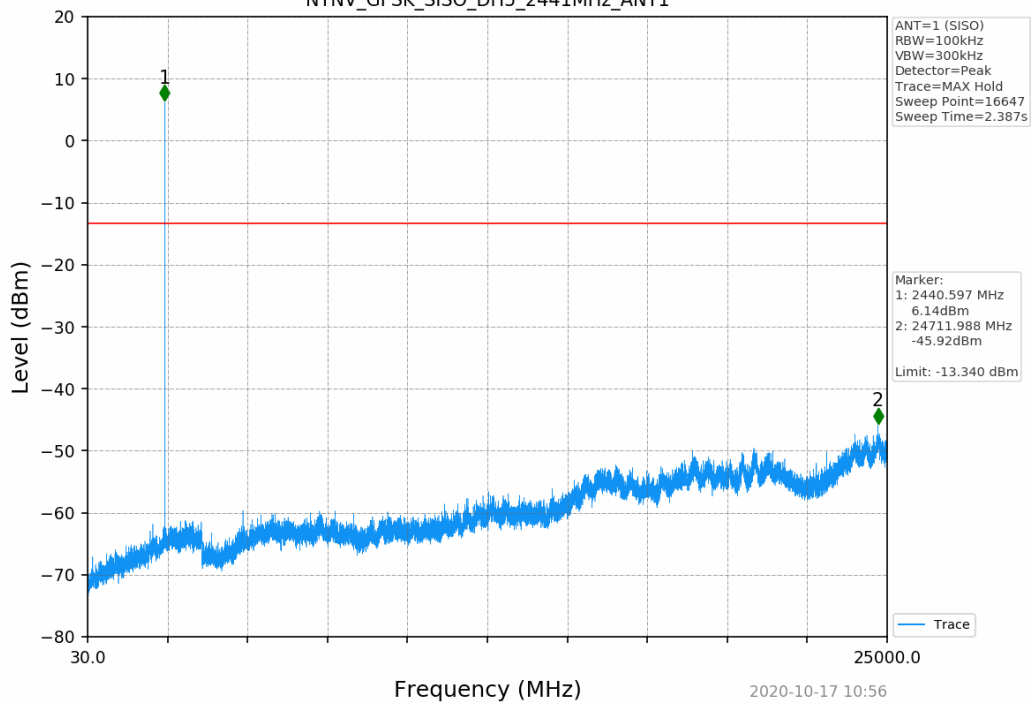
6.2 Test Graph

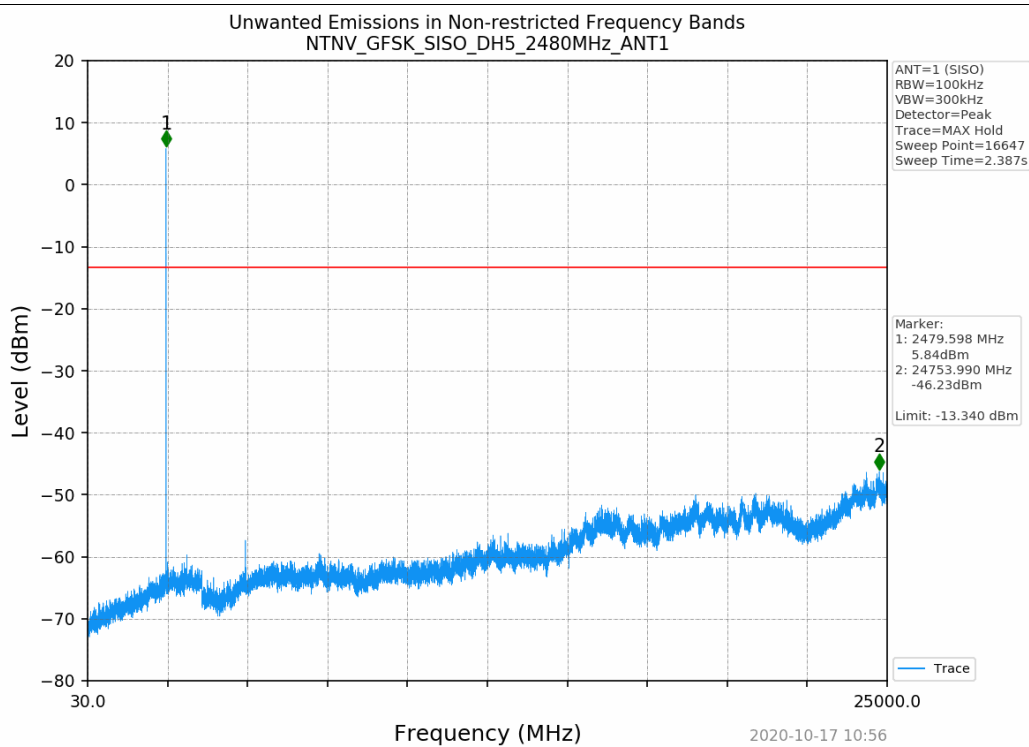
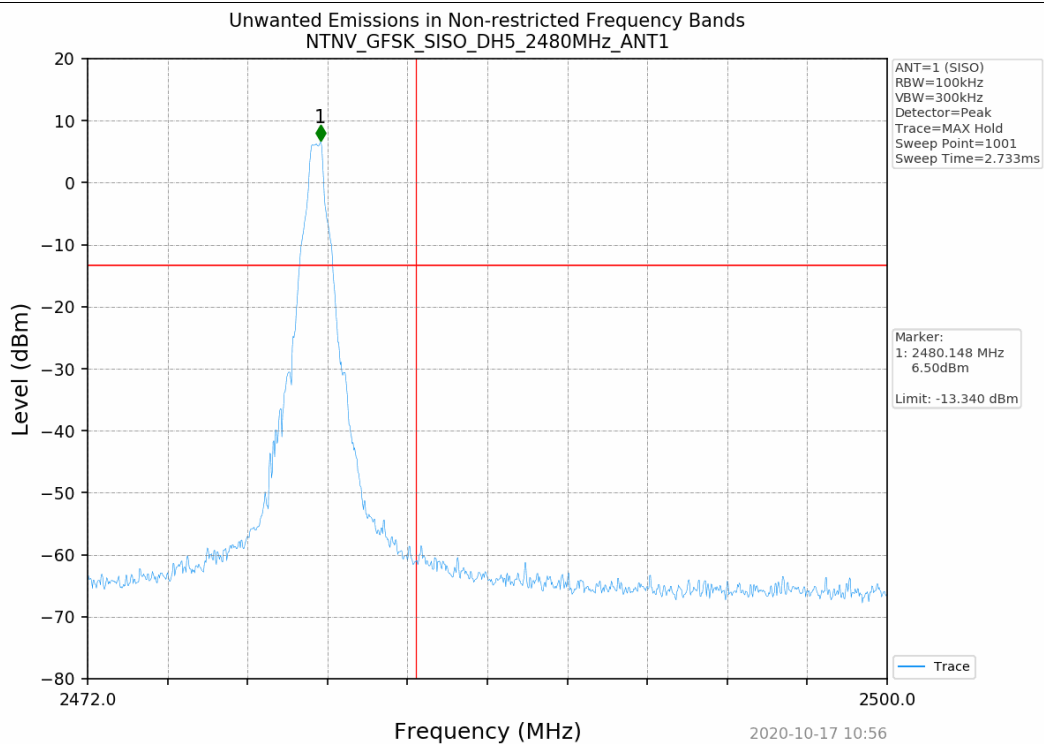


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2402MHz_ANT1

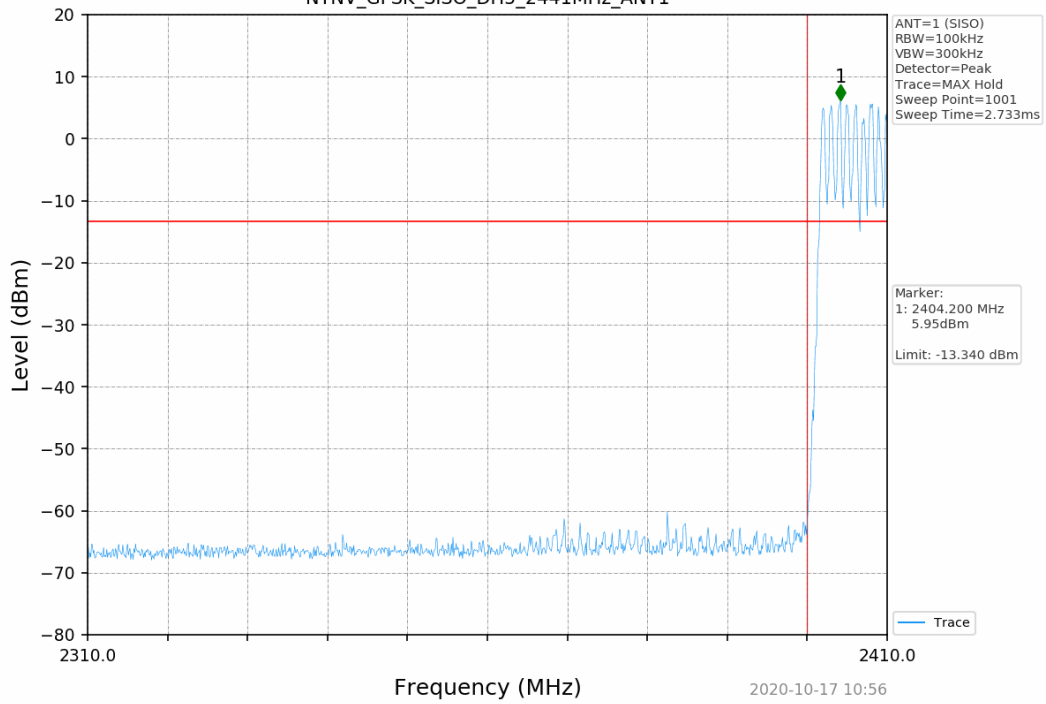


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1





Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

