

Appendix B for SHEM200900789502

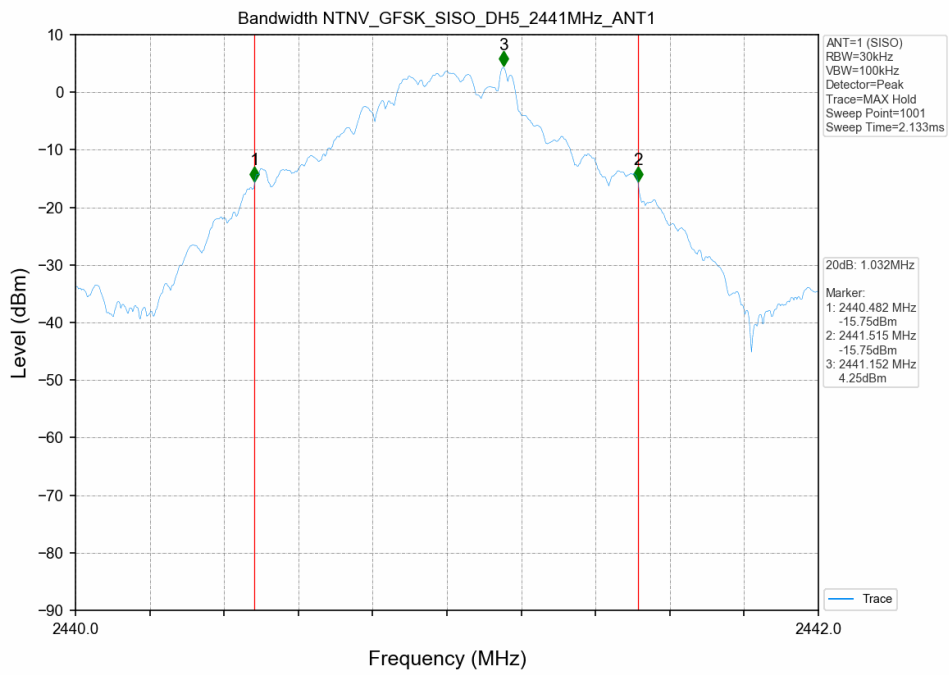
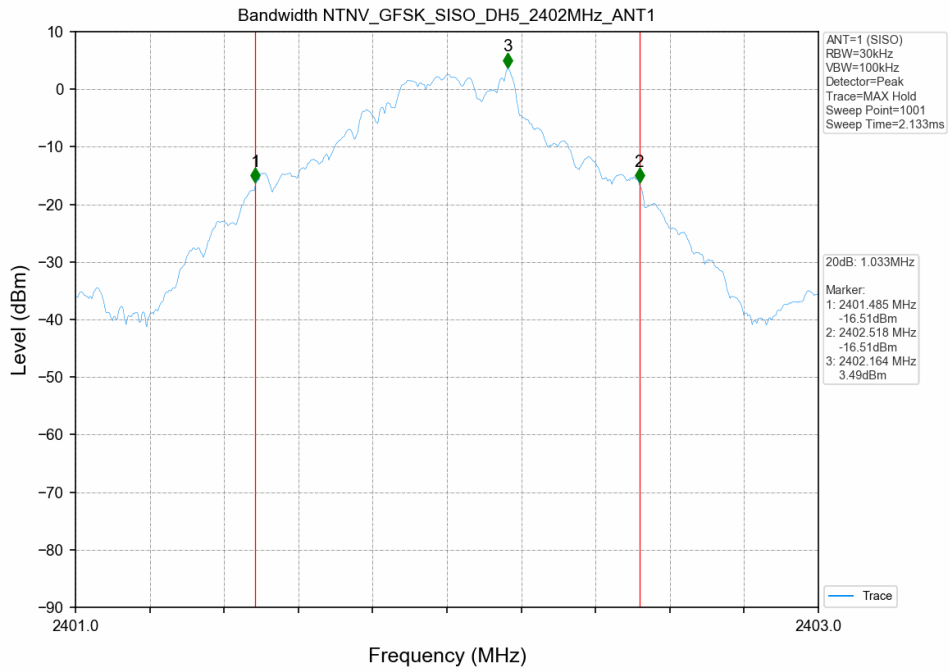
1. Bandwidth

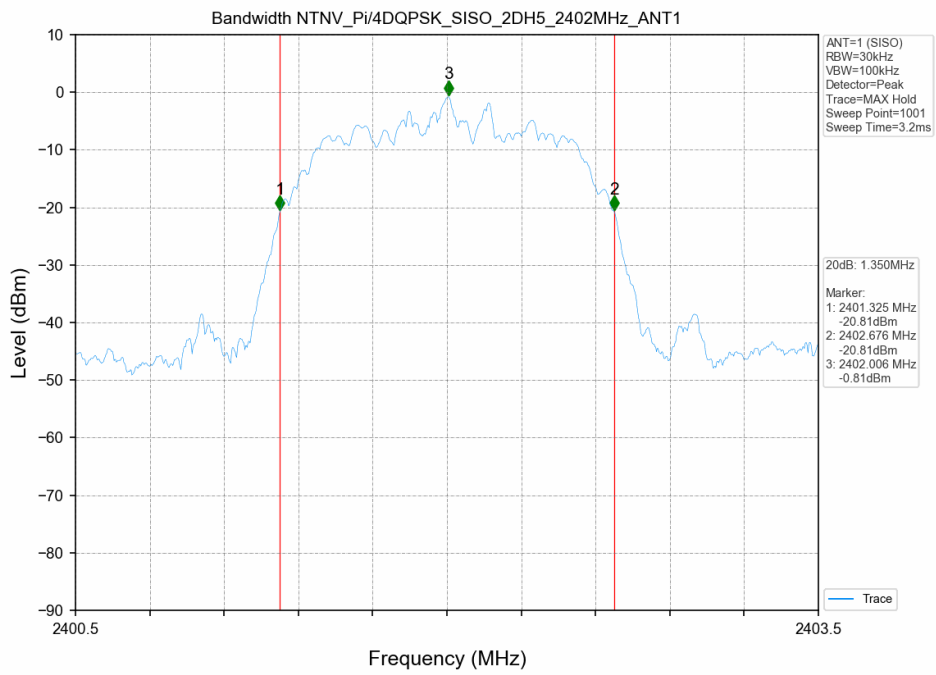
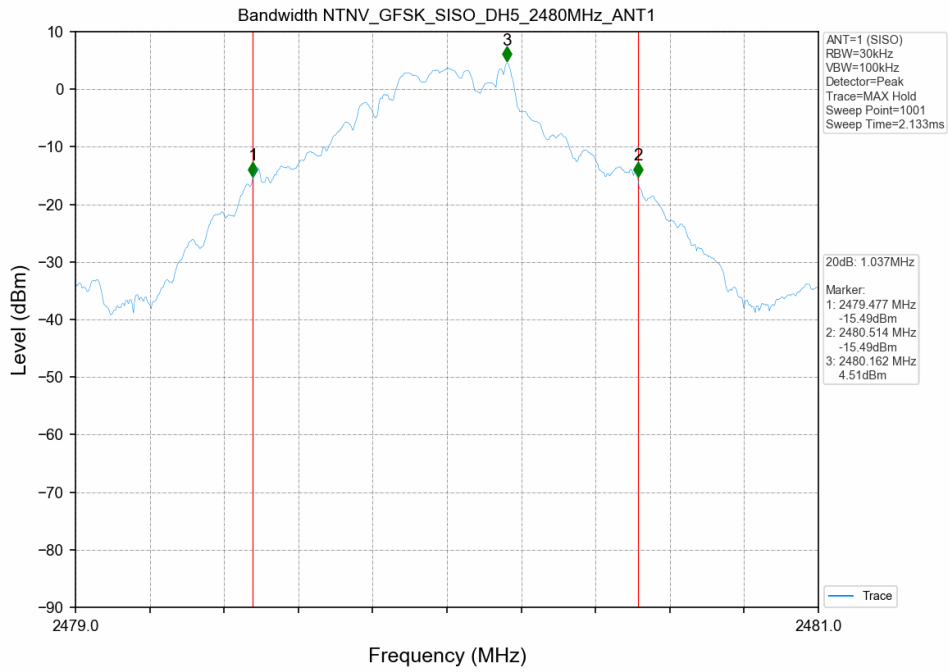
1.1 Test Result

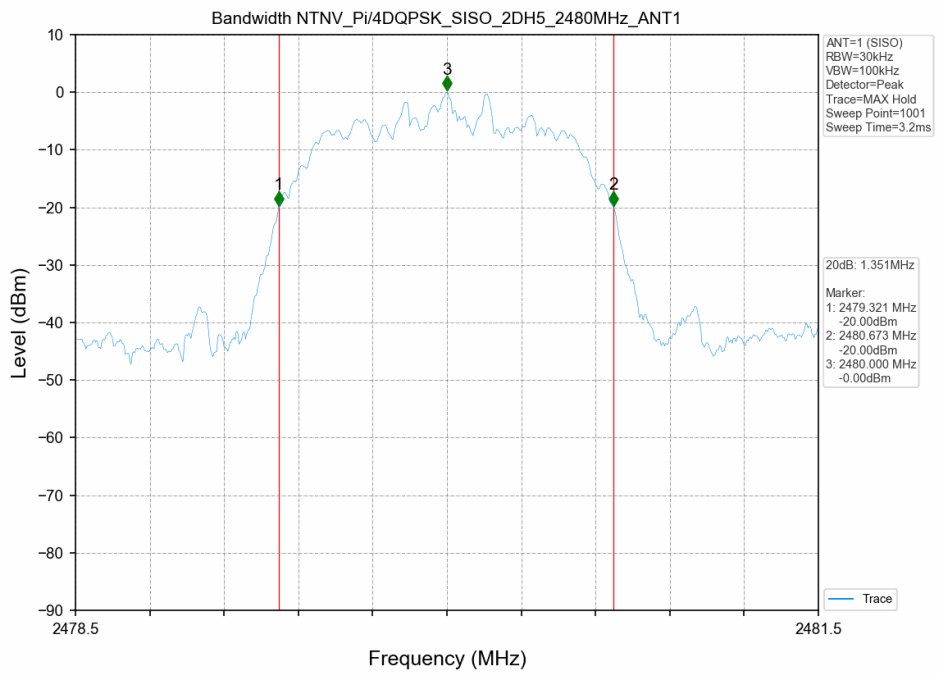
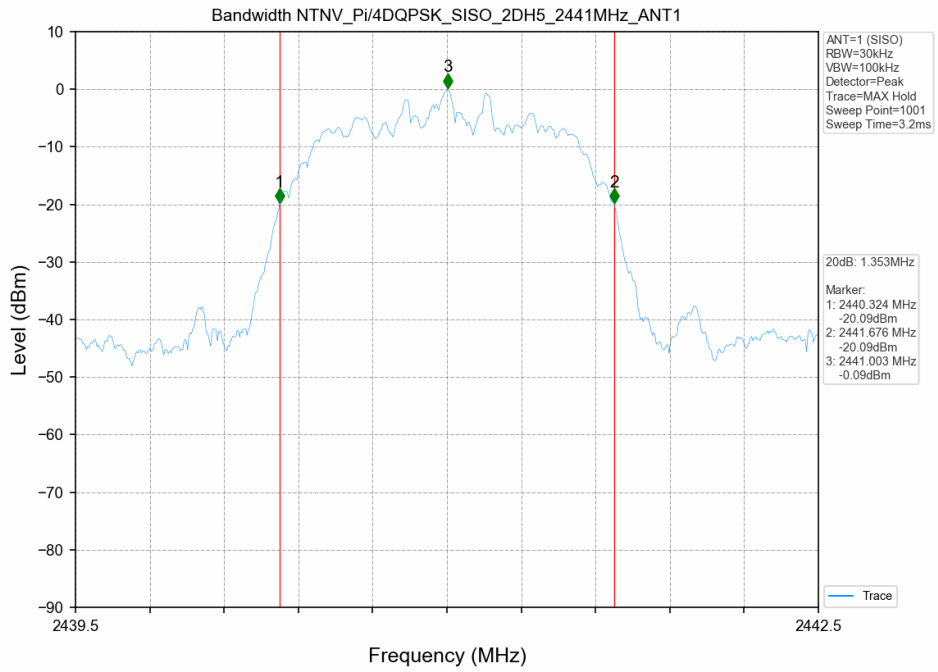
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.033	PASS
	2441	SISO	1	1.032	PASS
	2480	SISO	1	1.037	PASS
Pi/4DQPSK	2402	SISO	1	1.350	PASS
	2441	SISO	1	1.353	PASS
	2480	SISO	1	1.351	PASS
8DPSK	2402	SISO	1	1.316	PASS
	2441	SISO	1	1.316	PASS
	2480	SISO	1	1.316	PASS

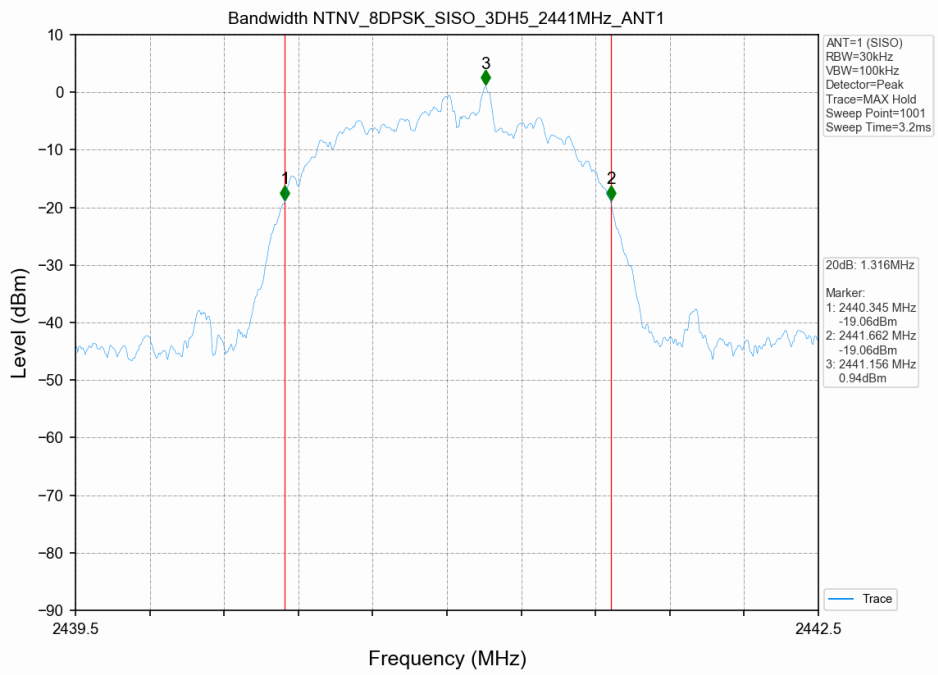
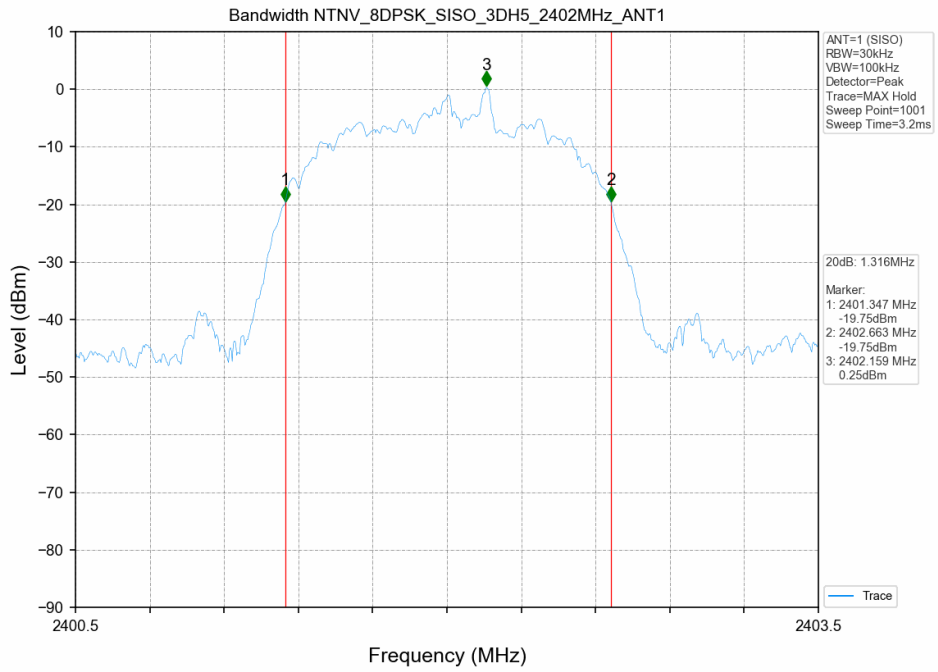
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.929	Only for Report Use
	2441	SISO	1	0.925	Only for Report Use
	2480	SISO	1	0.921	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.203	Only for Report Use
	2441	SISO	1	1.205	Only for Report Use
	2480	SISO	1	1.205	Only for Report Use
8DPSK	2402	SISO	1	1.212	Only for Report Use
	2441	SISO	1	1.211	Only for Report Use
	2480	SISO	1	1.214	Only for Report Use

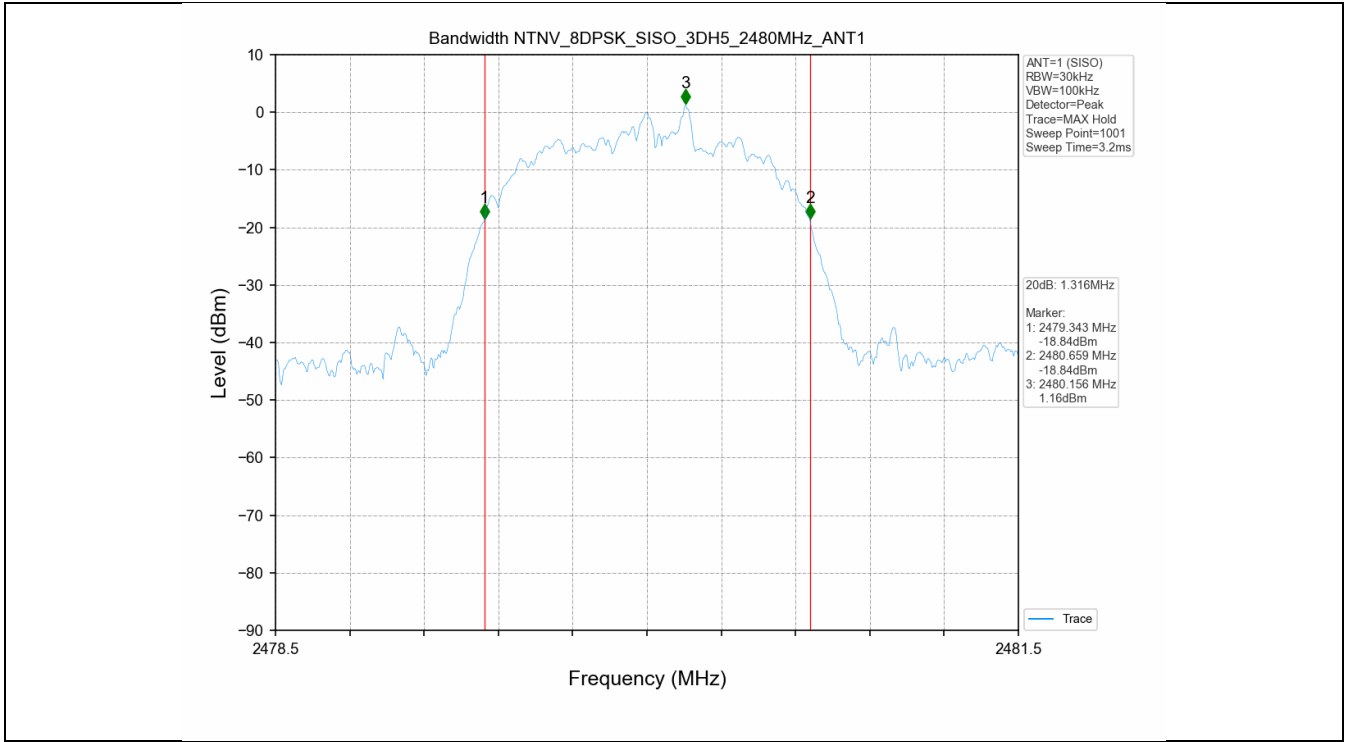
1.2 Test Graph - 20dB Bandwidth



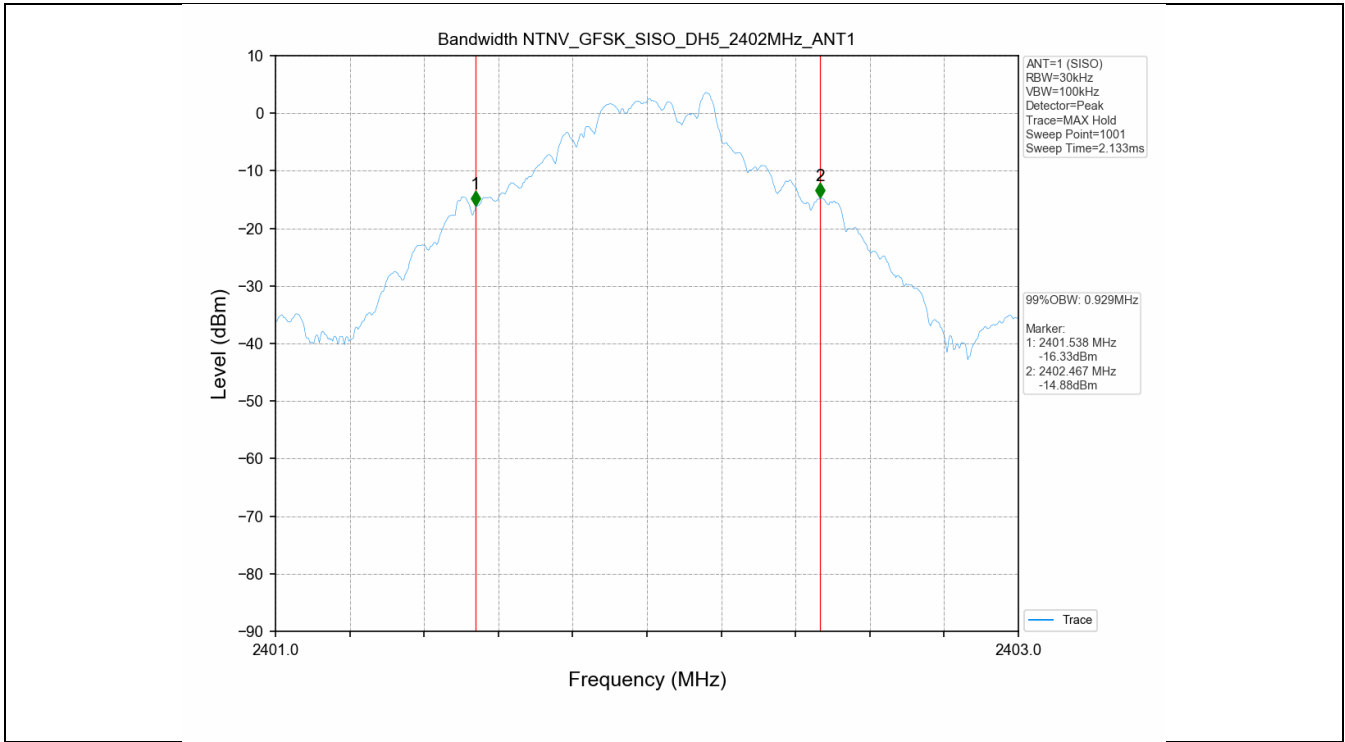


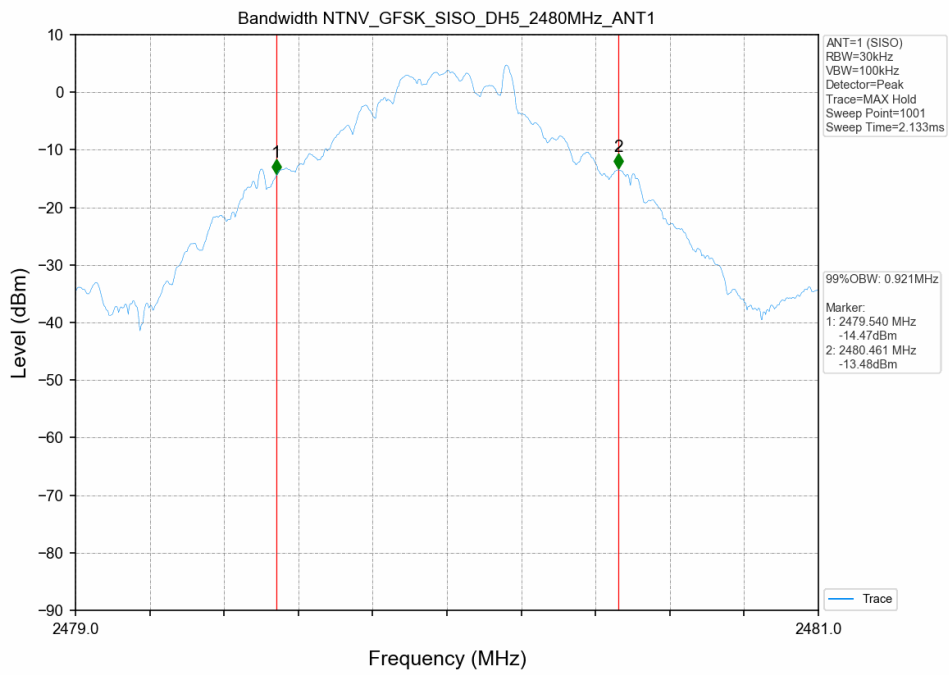
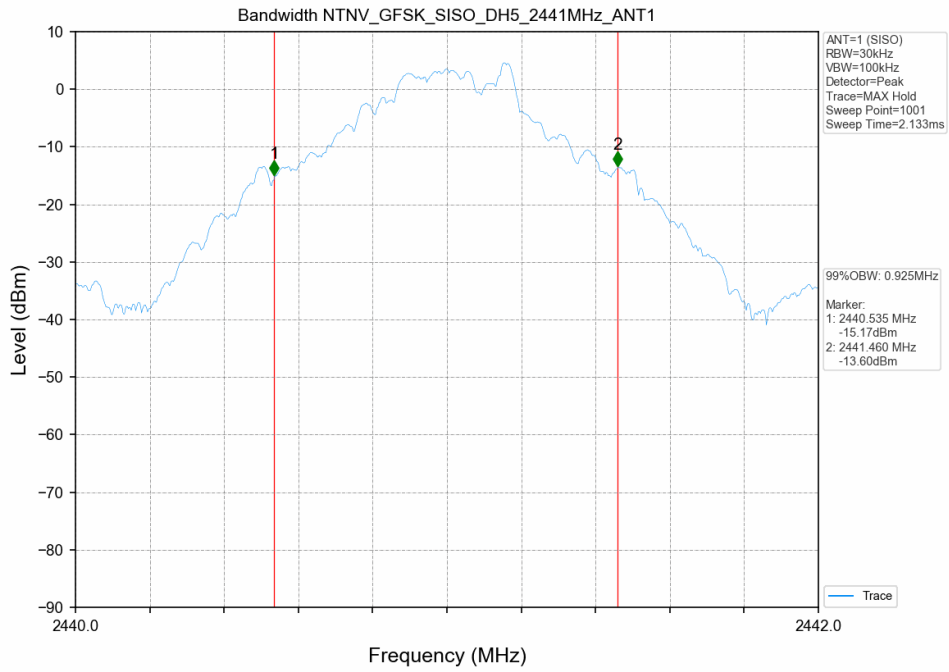


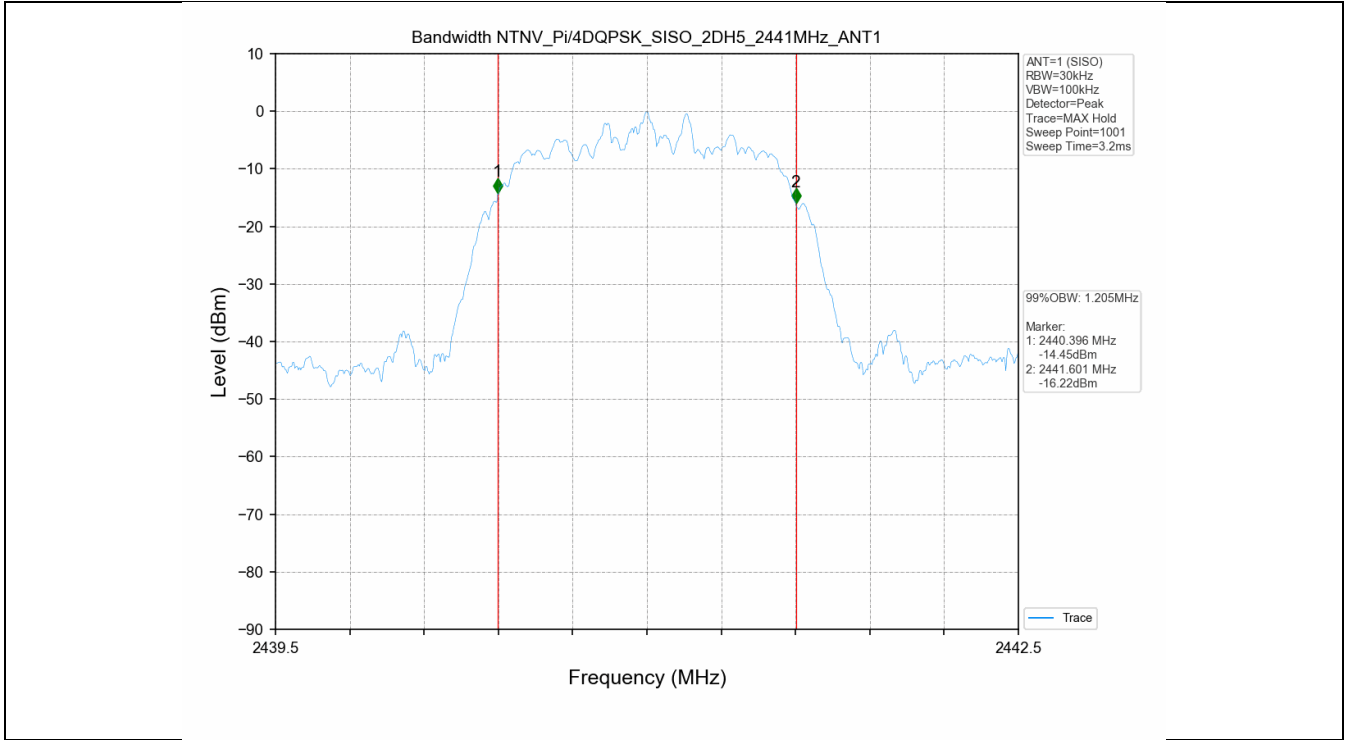
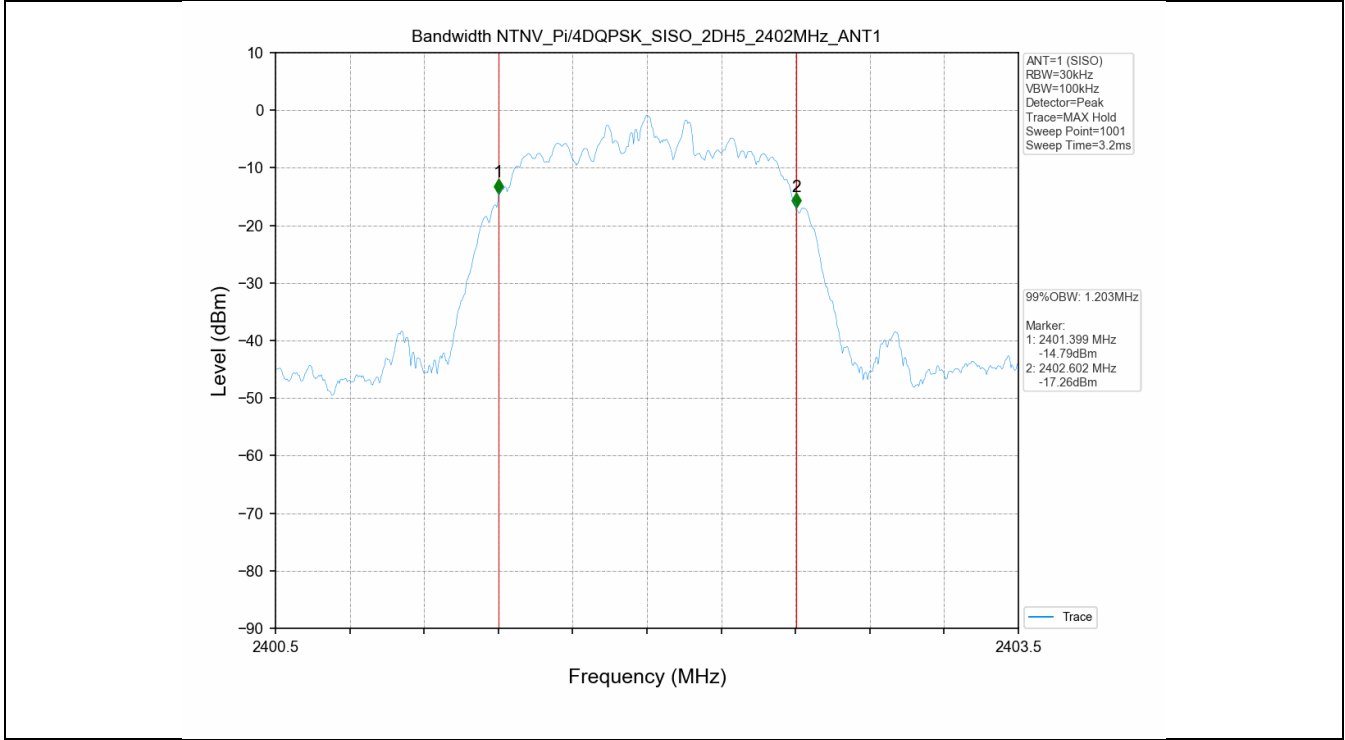


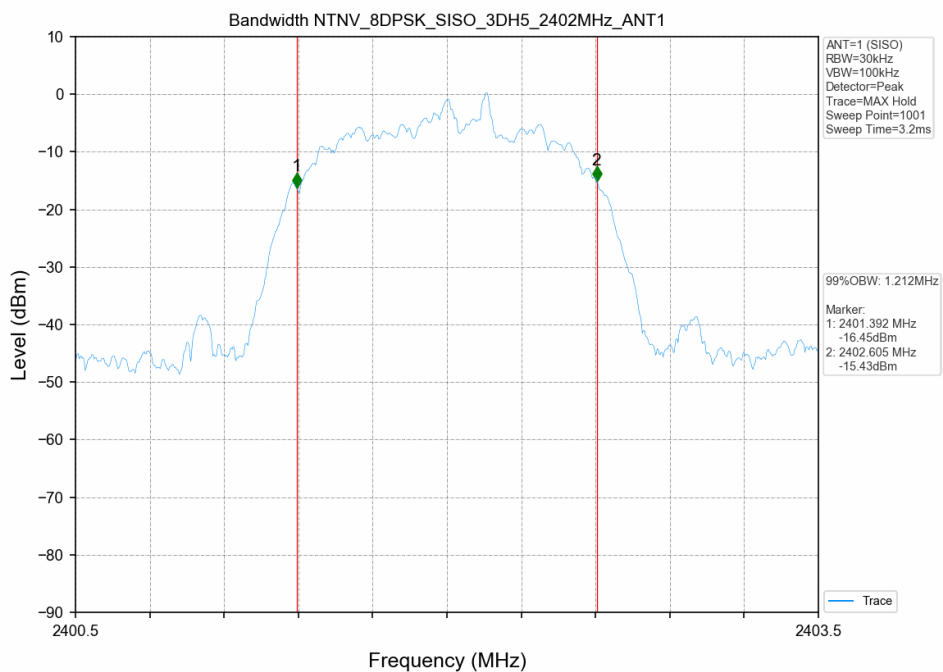
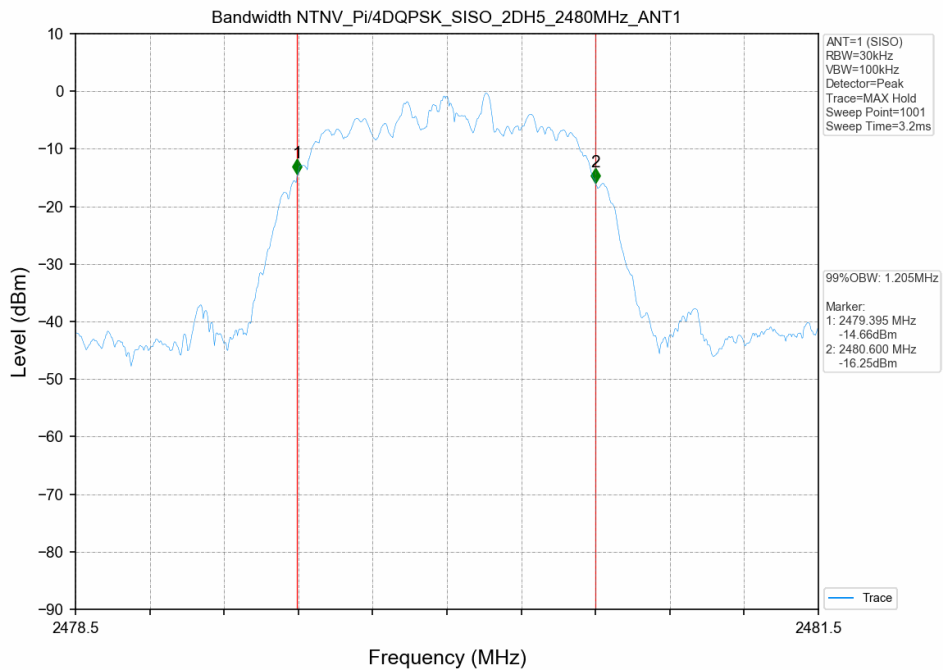


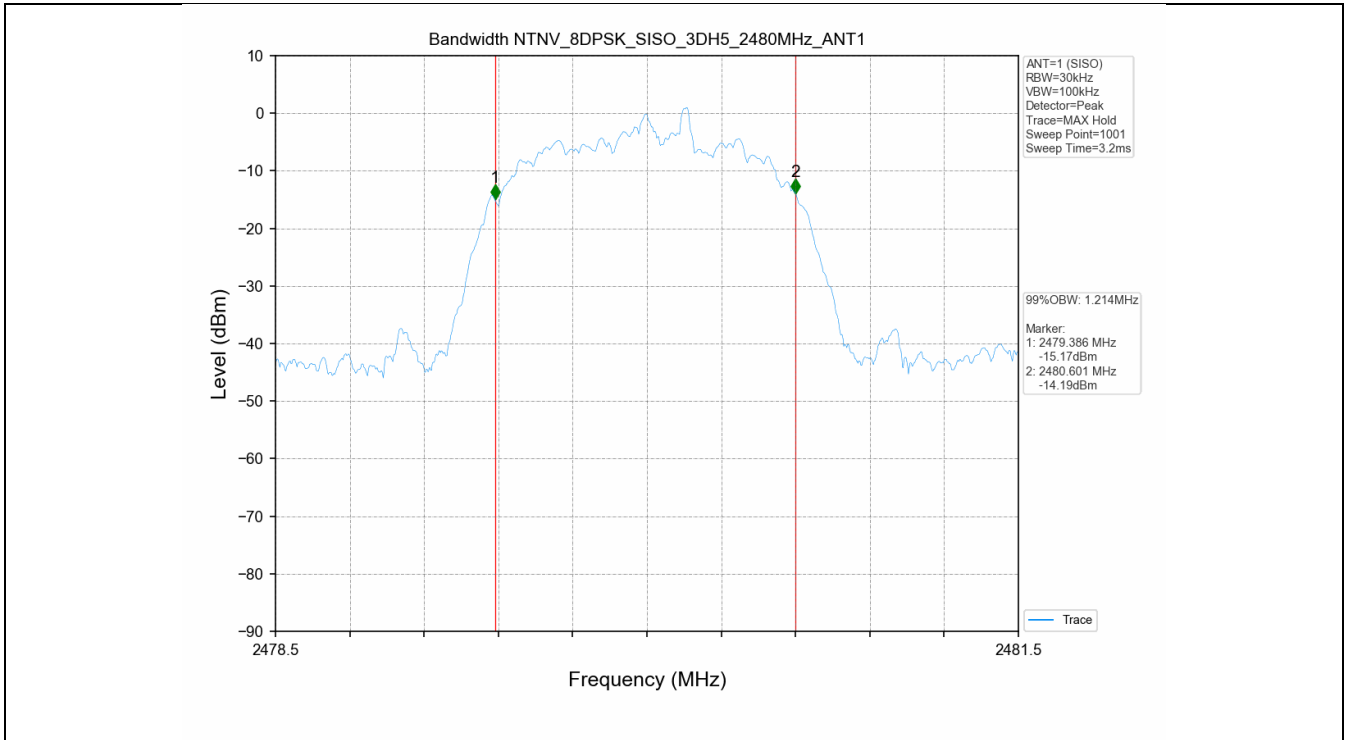
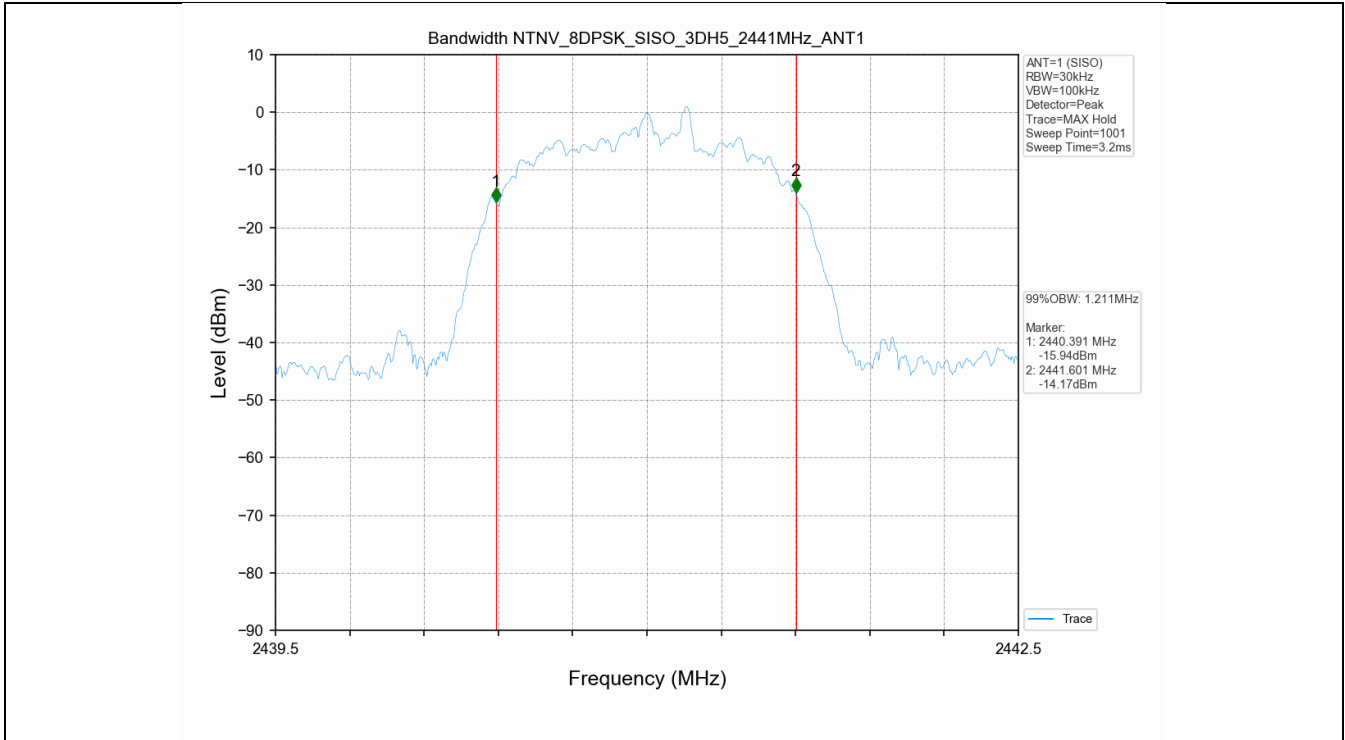
1.3 Test Graph - 99% Occupied Bandwidth









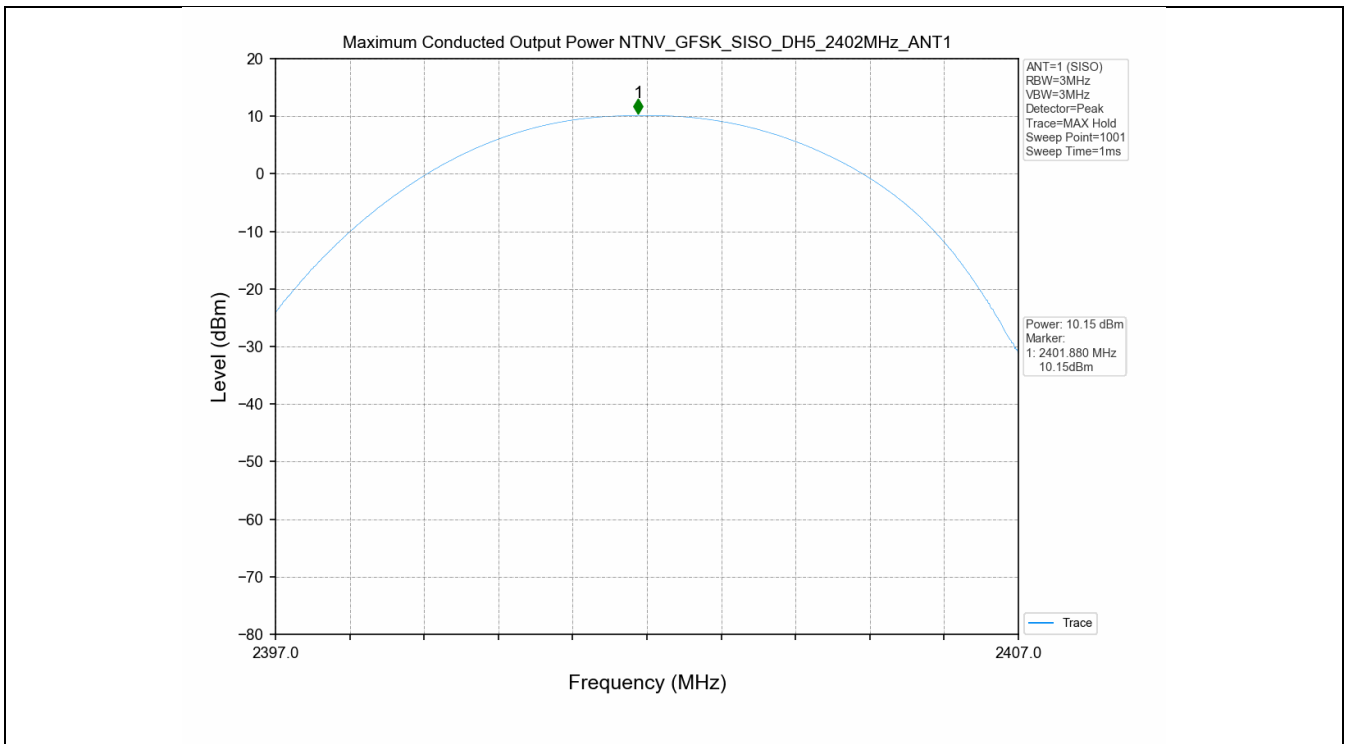


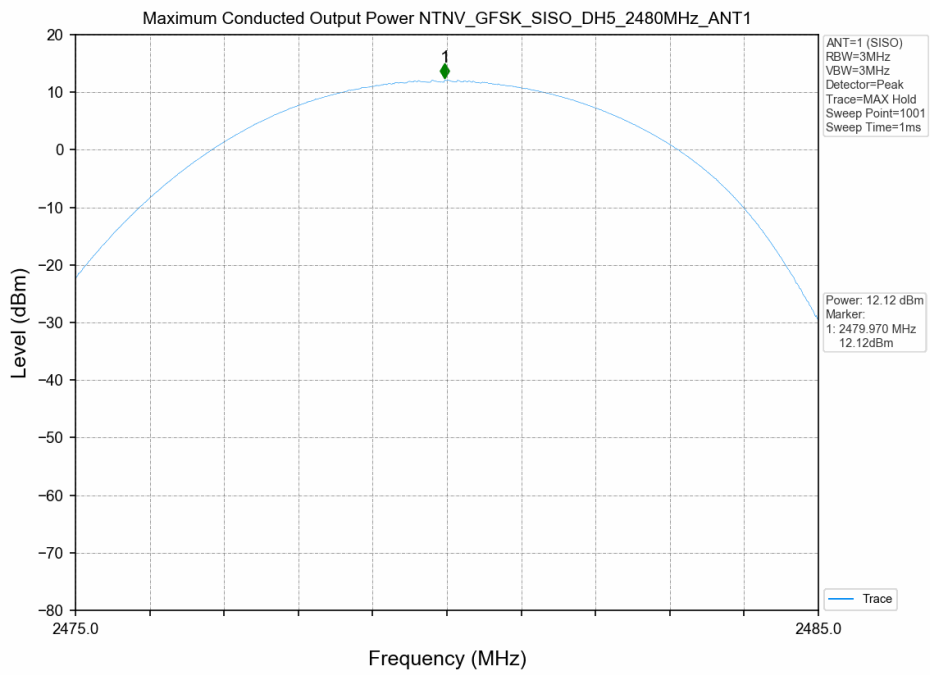
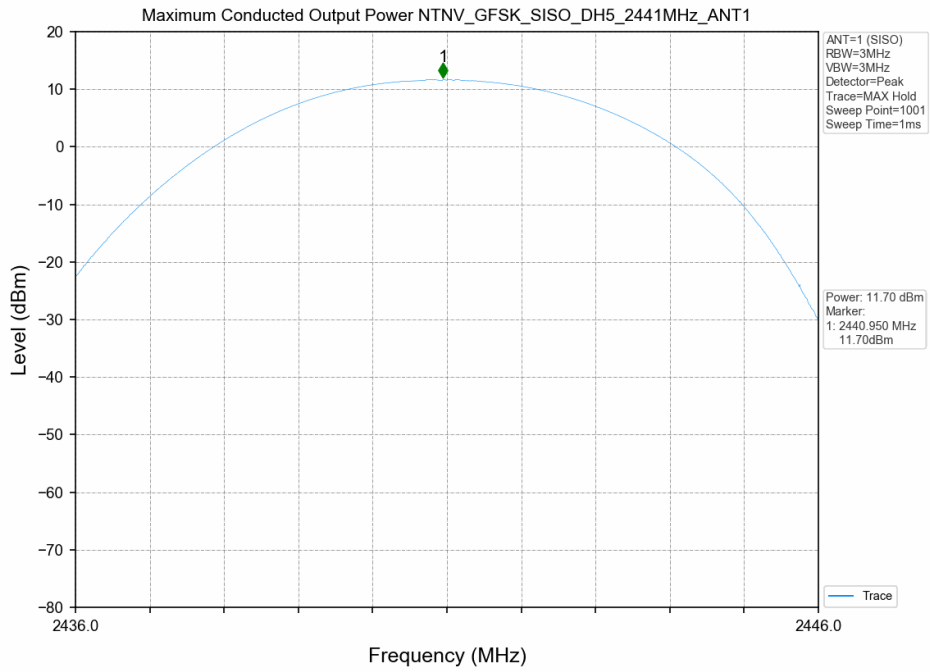
2. Maximum Conducted Output Power

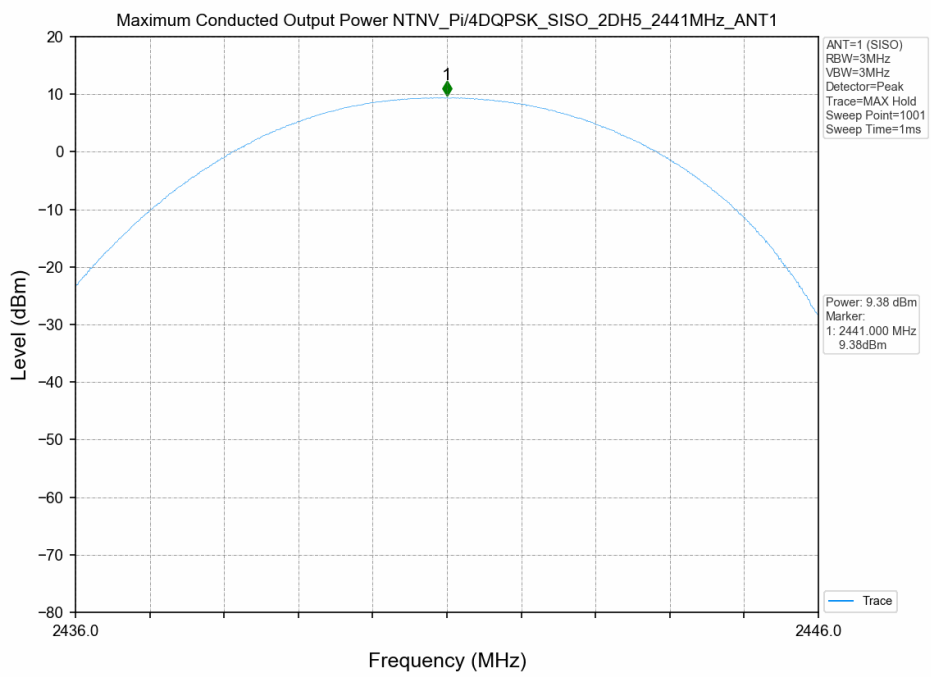
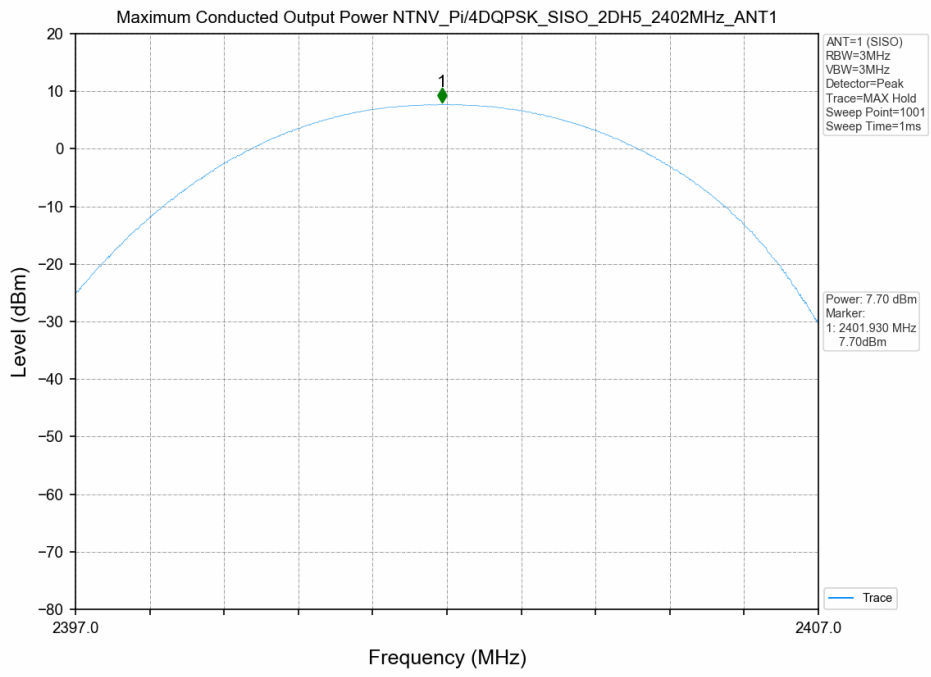
2.1 Test Result

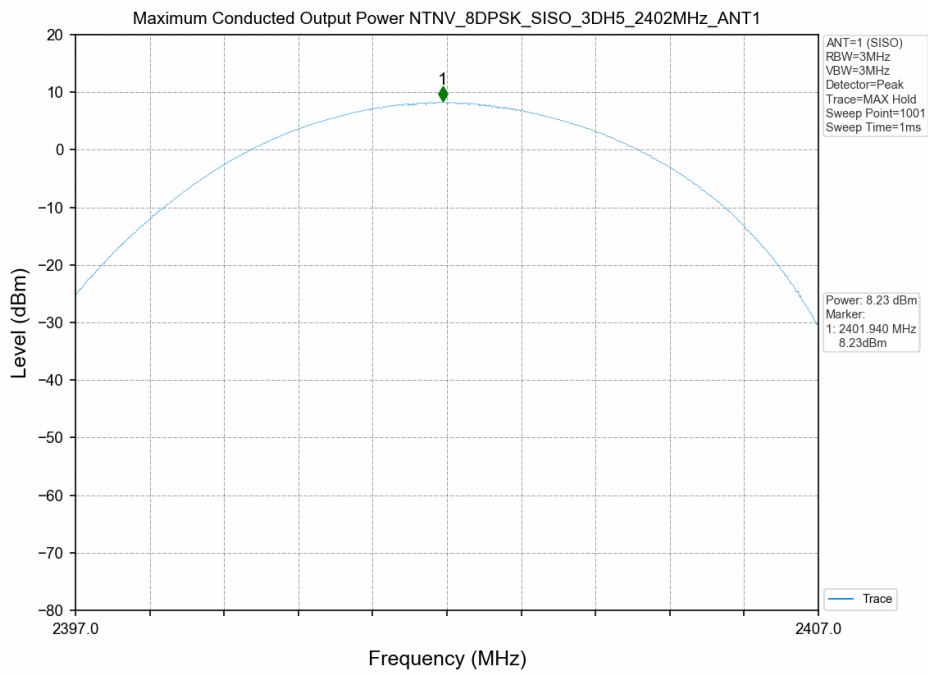
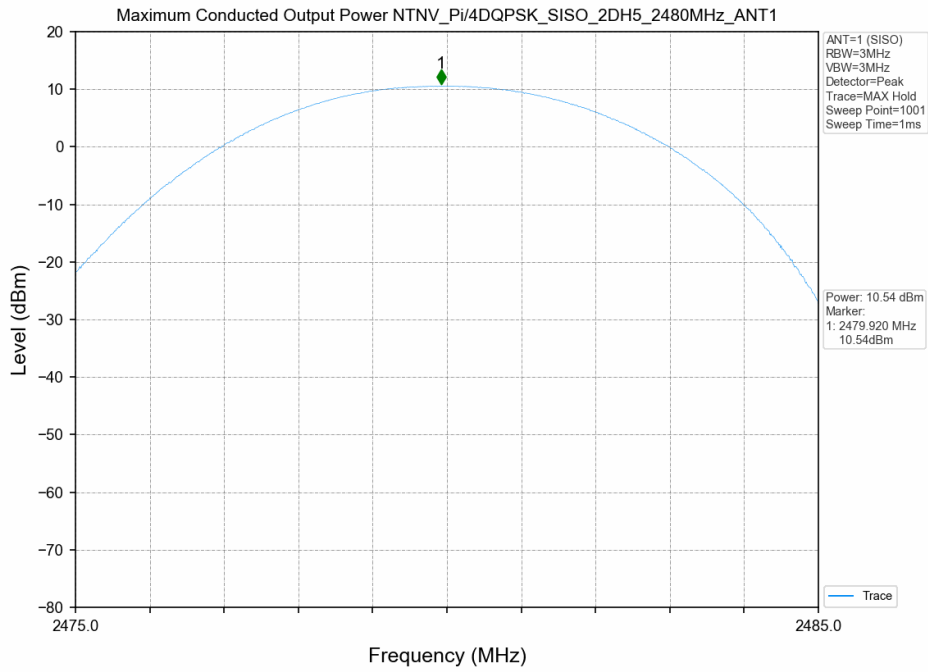
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	10.15	20.97	PASS
	2441	SISO	11.70	20.97	PASS
	2480	SISO	12.12	20.97	PASS
Pi/4DQPSK	2402	SISO	7.70	20.97	PASS
	2441	SISO	9.38	20.97	PASS
	2480	SISO	10.54	20.97	PASS
8DPSK	2402	SISO	8.23	20.97	PASS
	2441	SISO	9.91	20.97	PASS
	2480	SISO	11.09	20.97	PASS

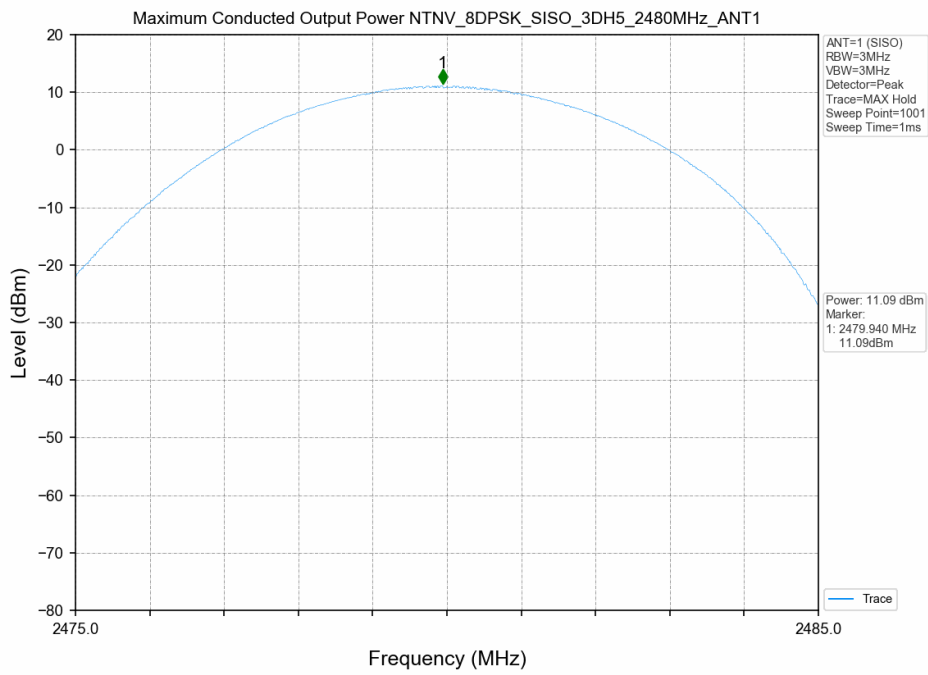
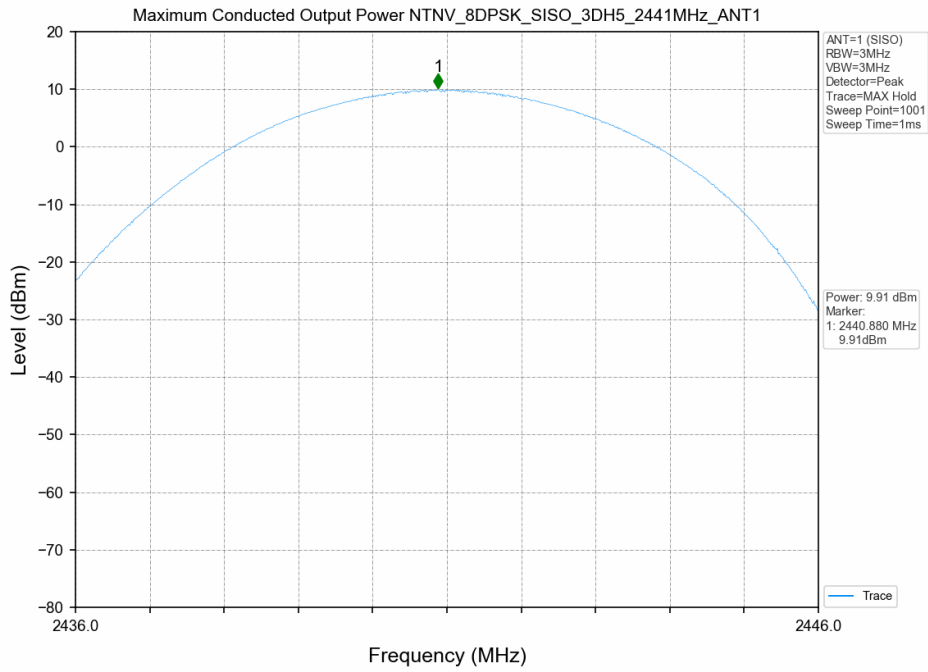
2.2 Test Graph









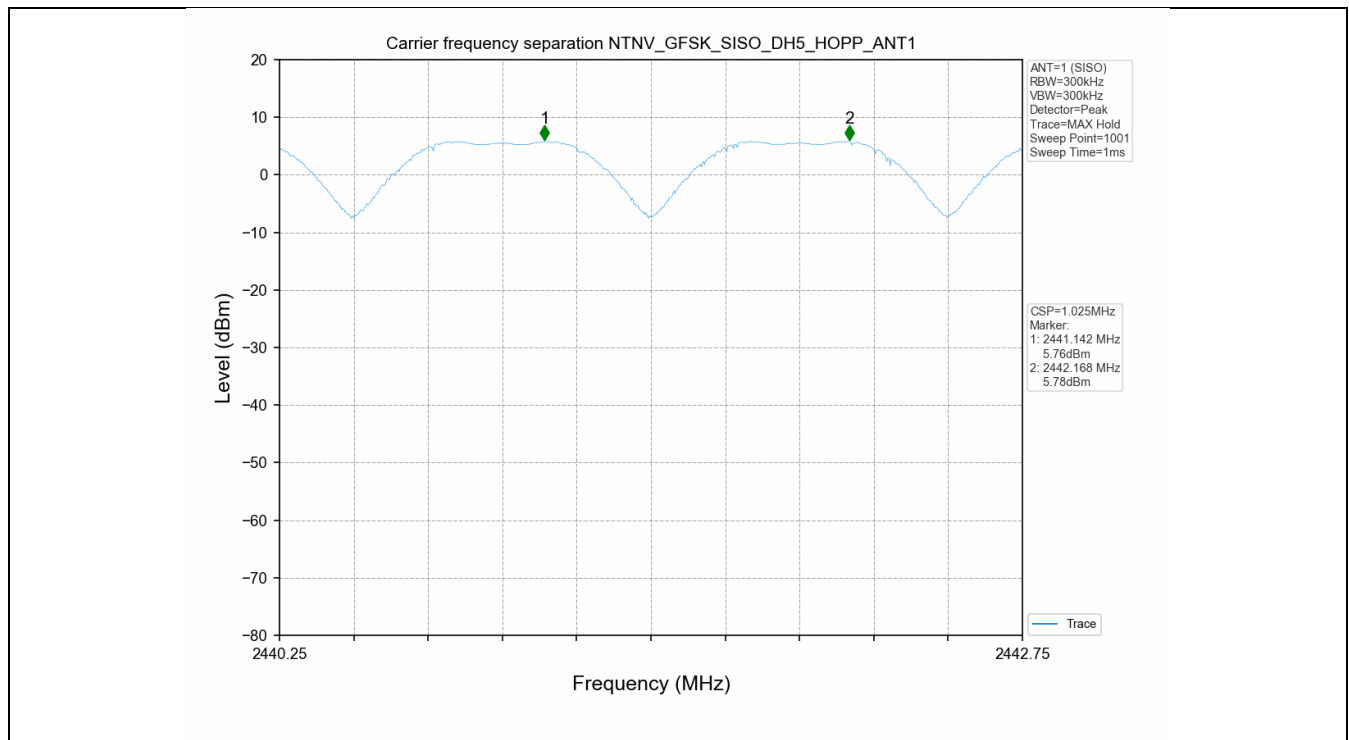


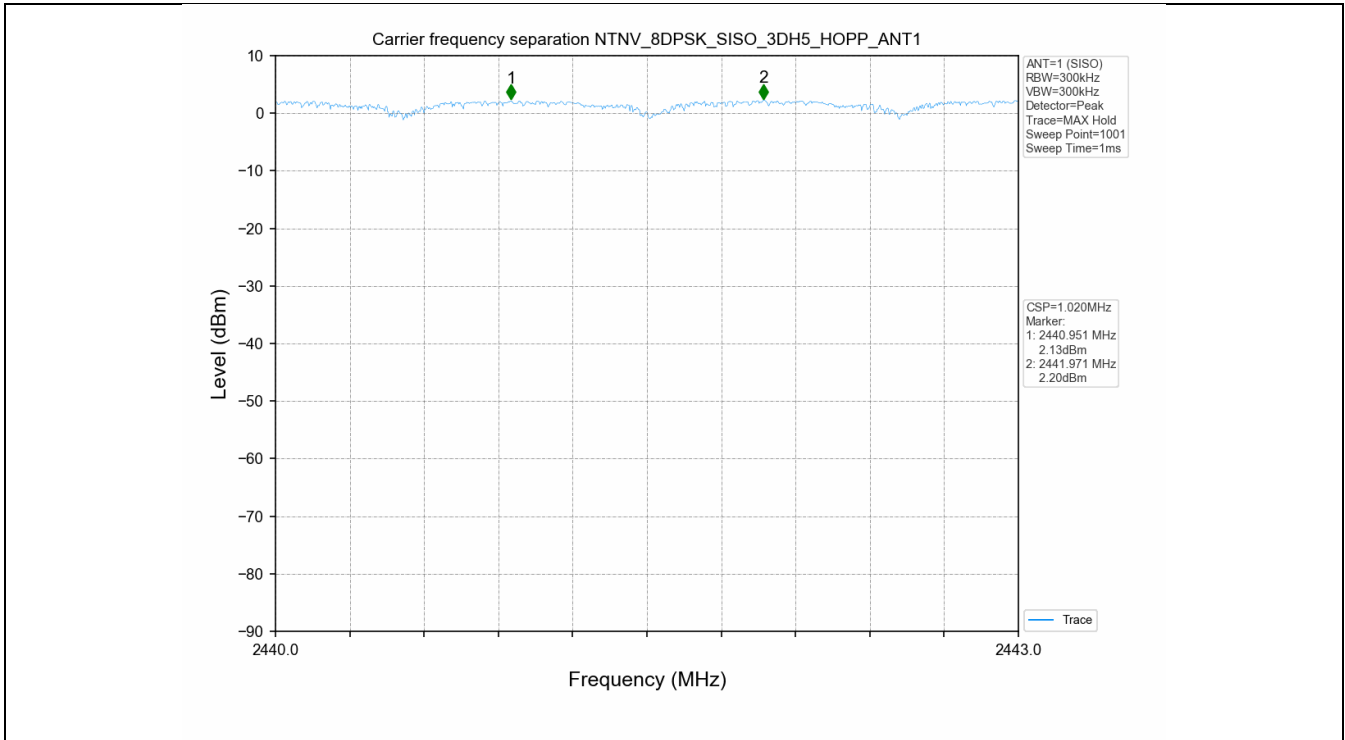
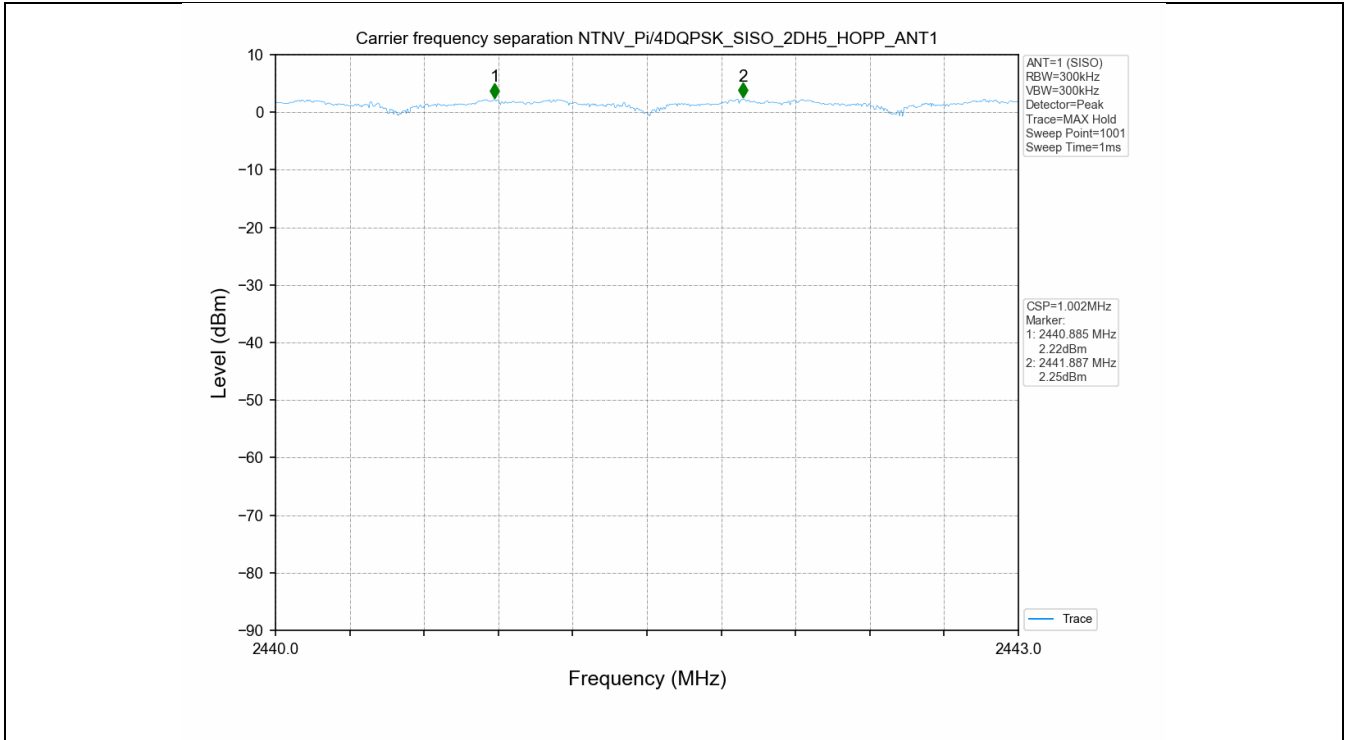
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.025	1.037	≥ 0.691	PASS
Pi/4DQPSK	SISO	1	1.002	1.353	≥ 0.902	PASS
8DPSK	SISO	1	1.020	1.316	≥ 0.877	PASS

3.2 Test Graph



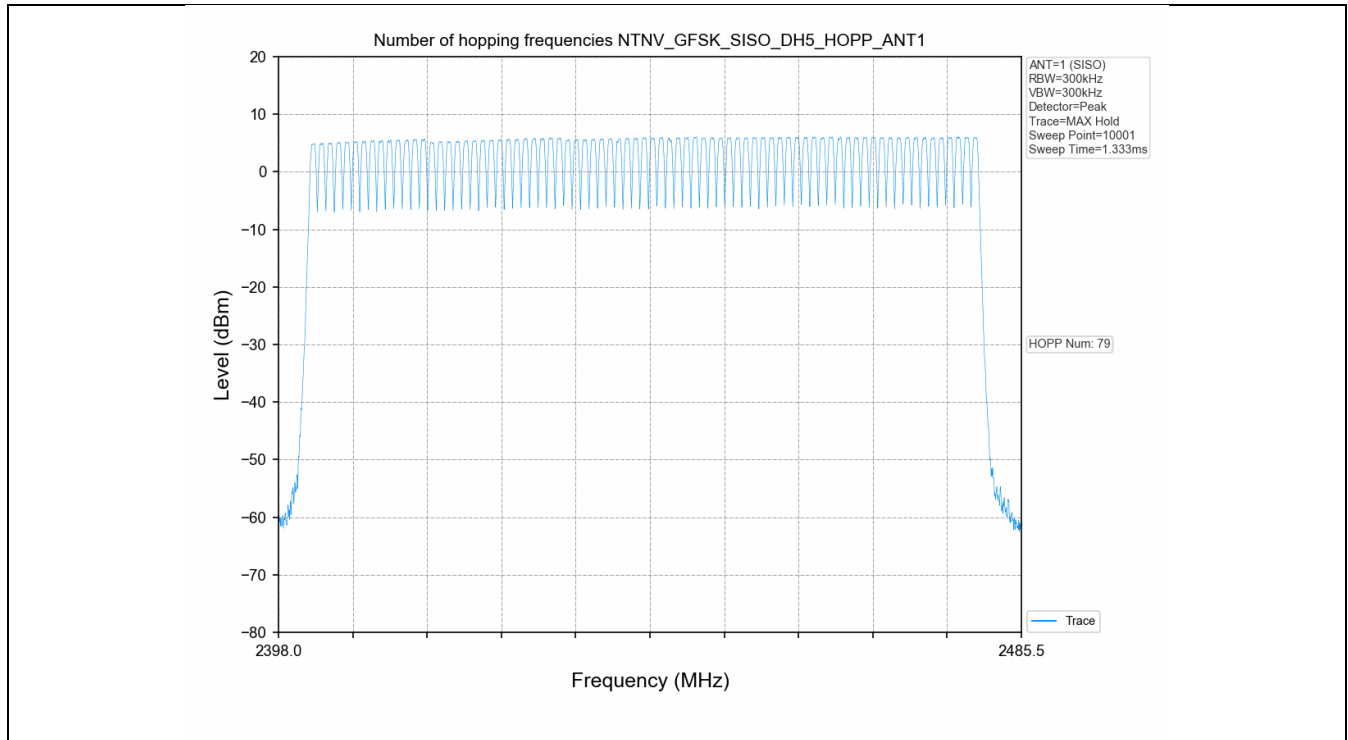


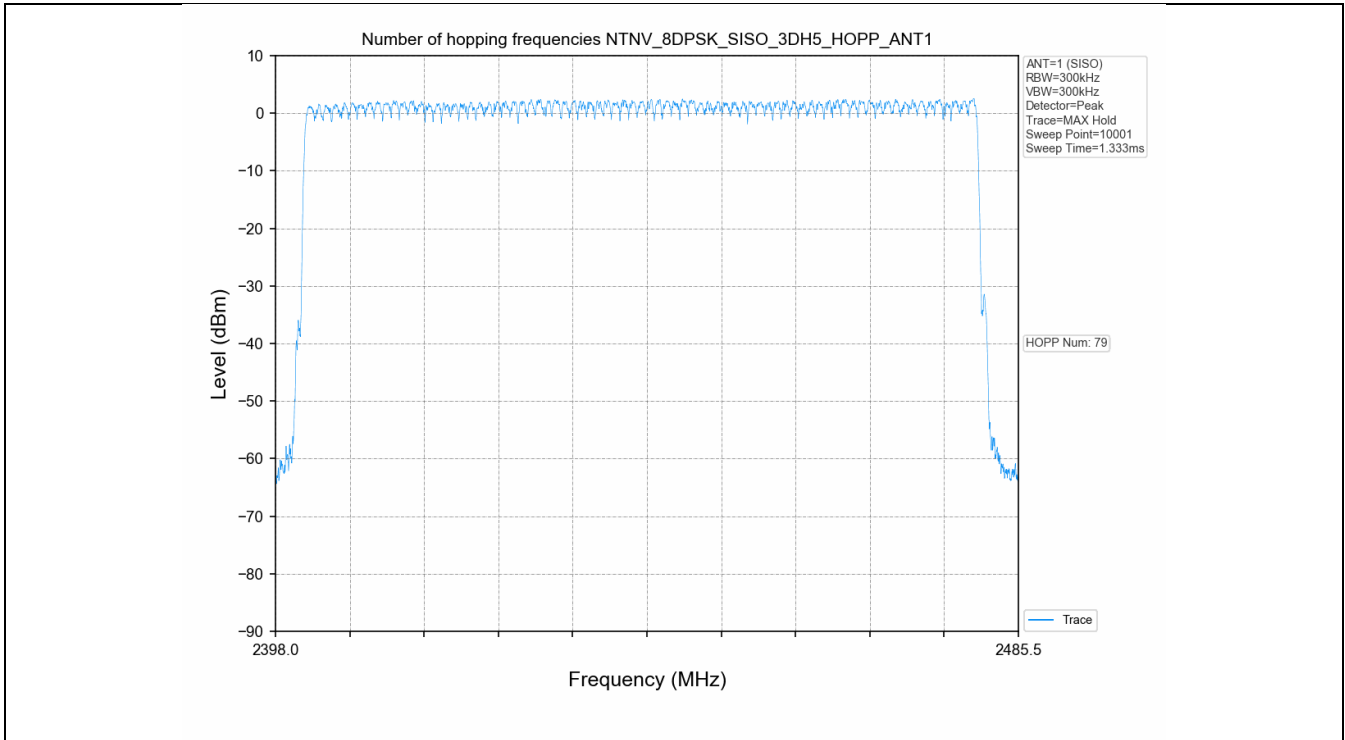
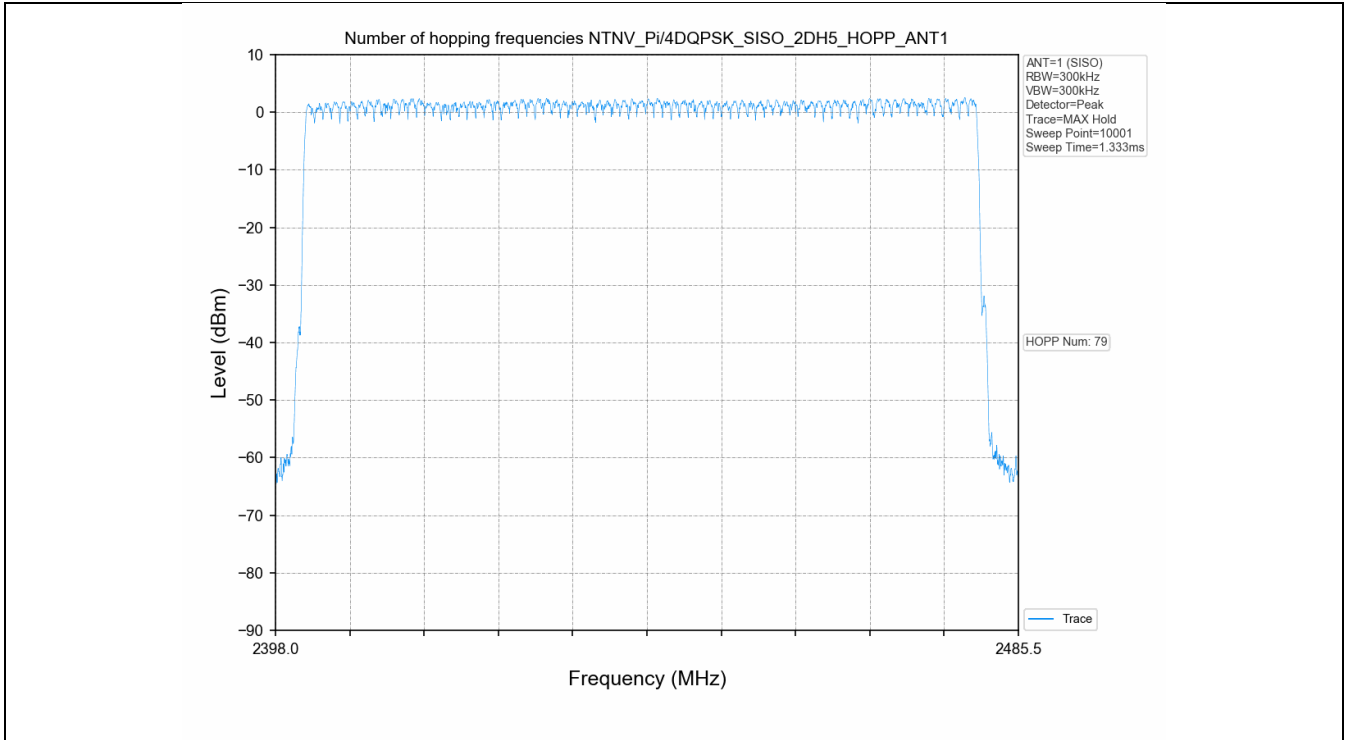
4. Number of hopping frequencies

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



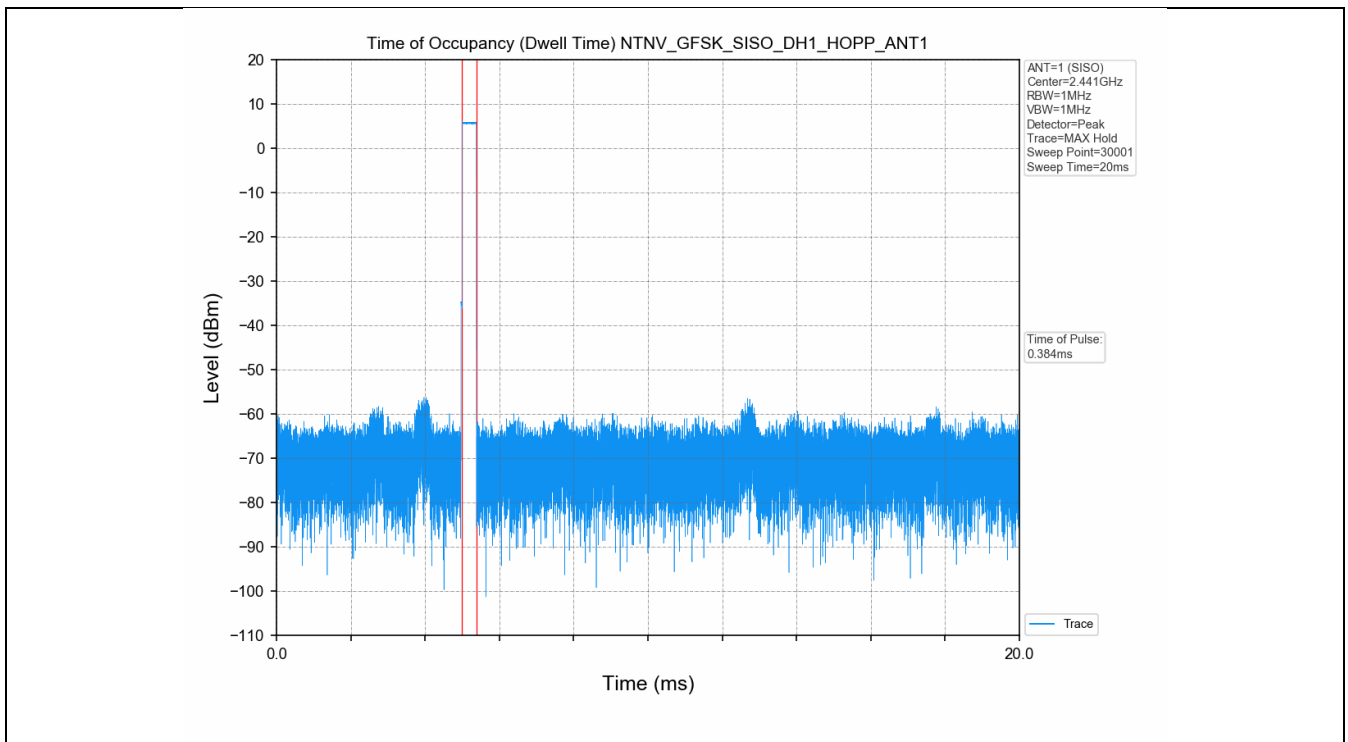


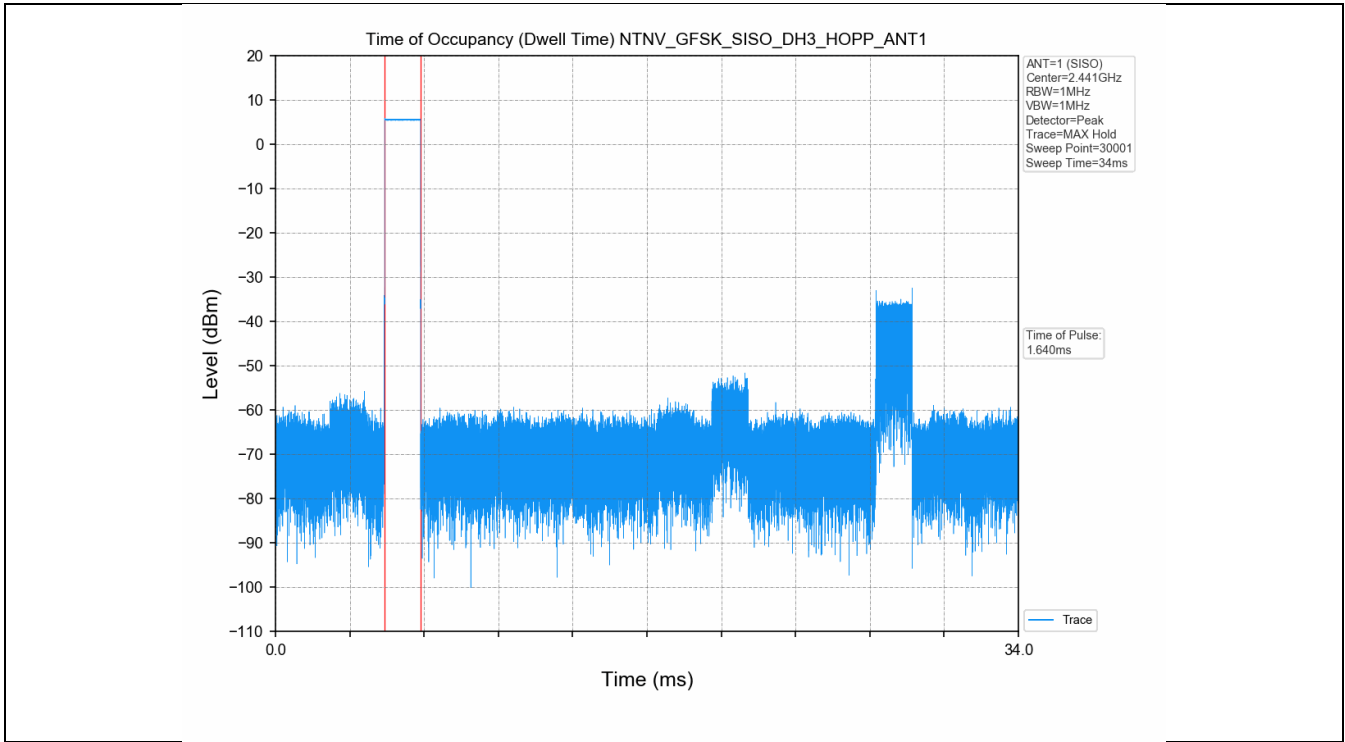
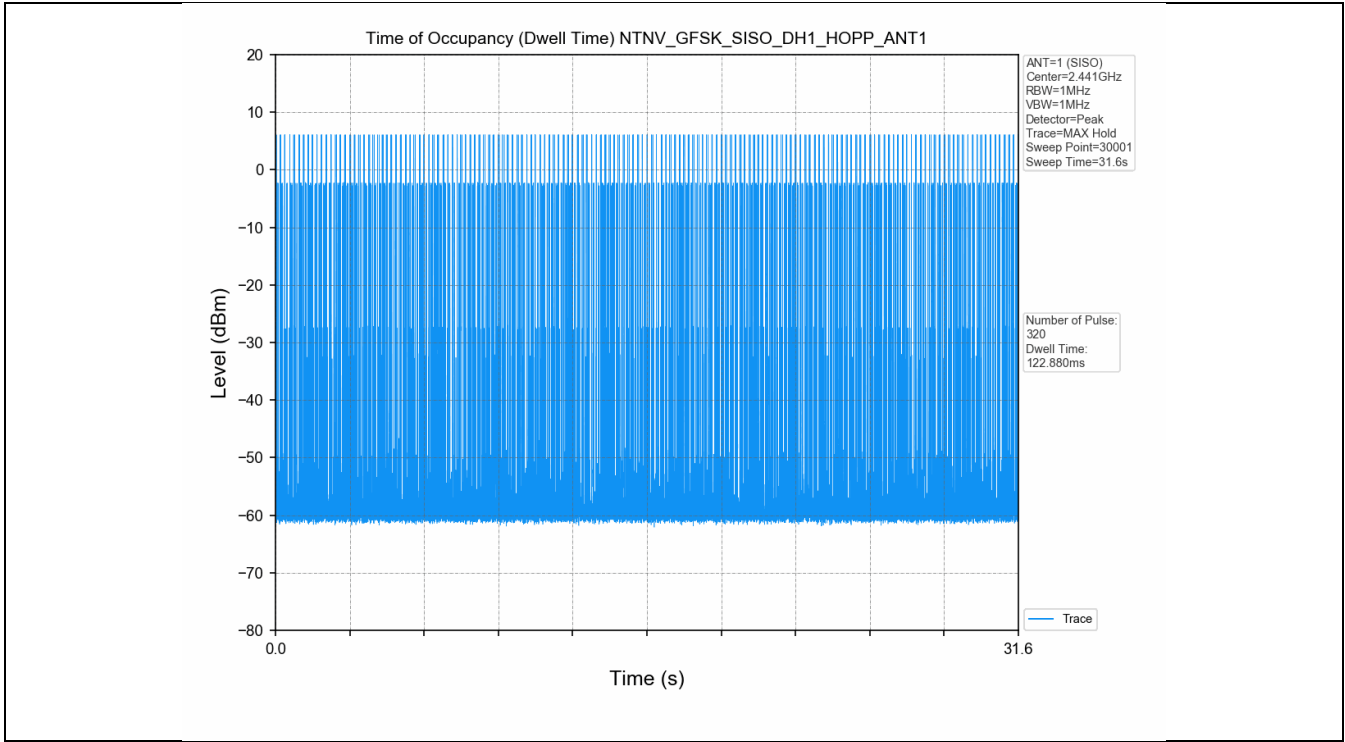
5. Time of occupancy (dwell time)

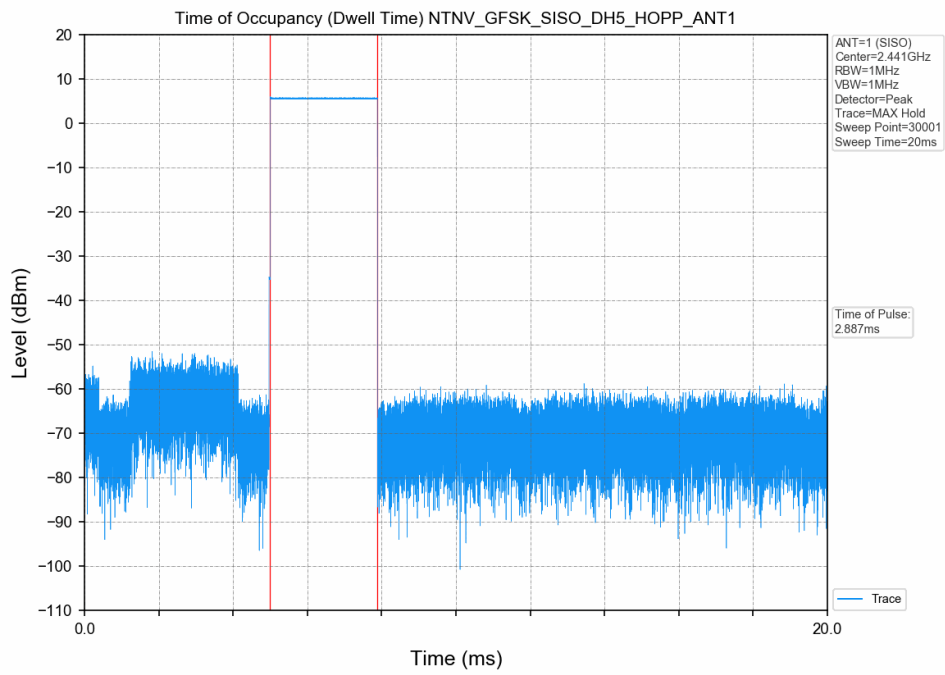
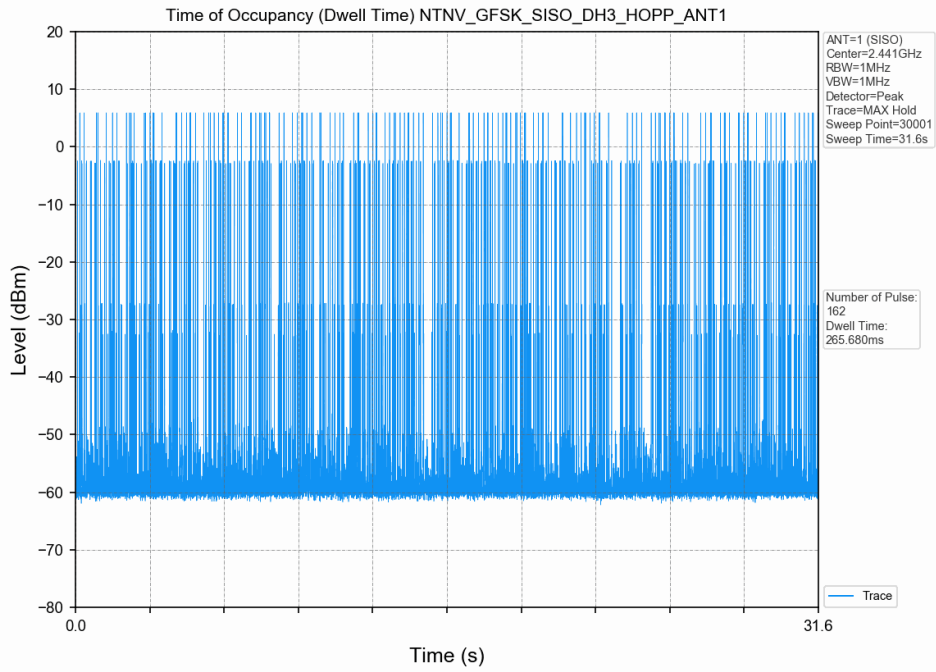
5.1 Test Result

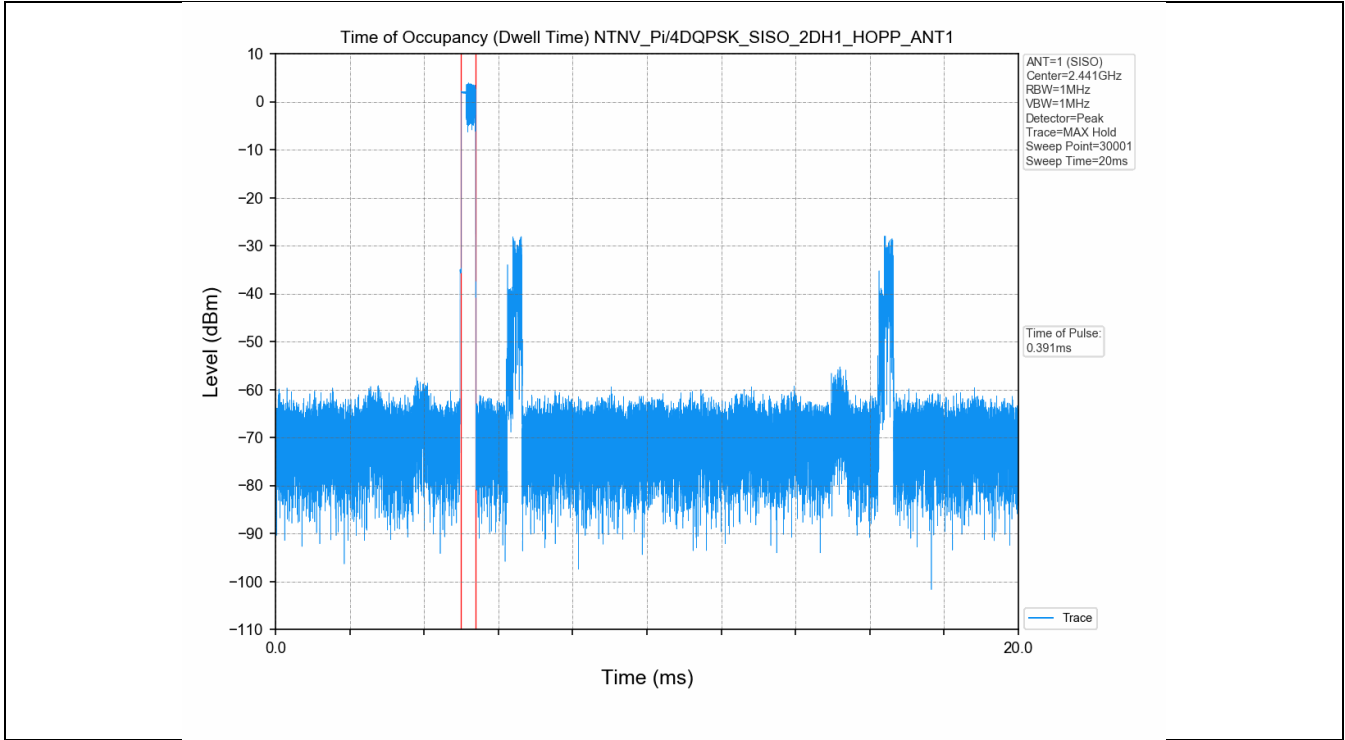
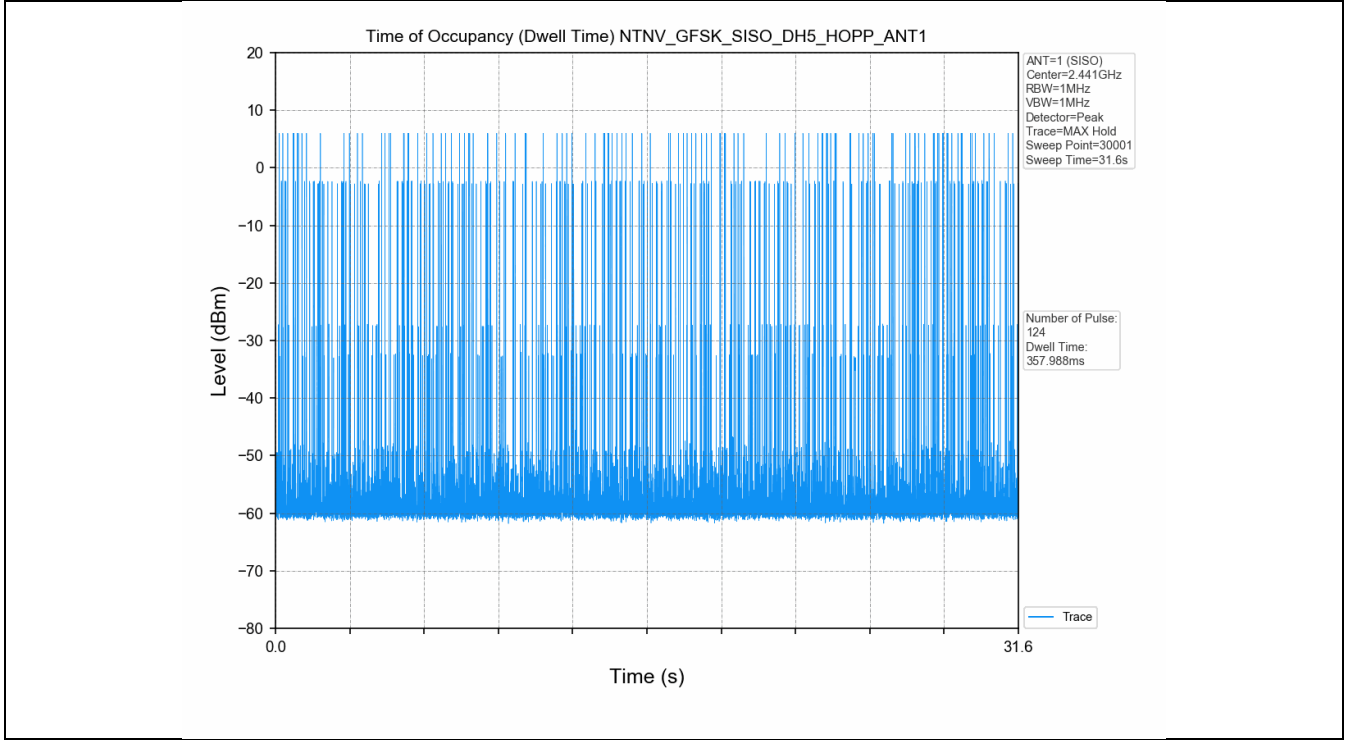
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.384	31.6	320	122.880	≤400	PASS
	DH3	SISO	1	1.640	31.6	162	265.680	≤400	PASS
	DH5	SISO	1	2.887	31.6	124	357.988	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.391	31.6	320	125.120	≤400	PASS
	2DH3	SISO	1	1.642	31.6	160	262.720	≤400	PASS
	2DH5	SISO	1	2.890	31.6	107	309.230	≤400	PASS
8DPSK	3DH1	SISO	1	0.391	31.6	320	125.120	≤400	PASS
	3DH3	SISO	1	1.642	31.6	167	274.214	≤400	PASS
	3DH5	SISO	1	2.929	31.6	106	310.474	≤400	PASS

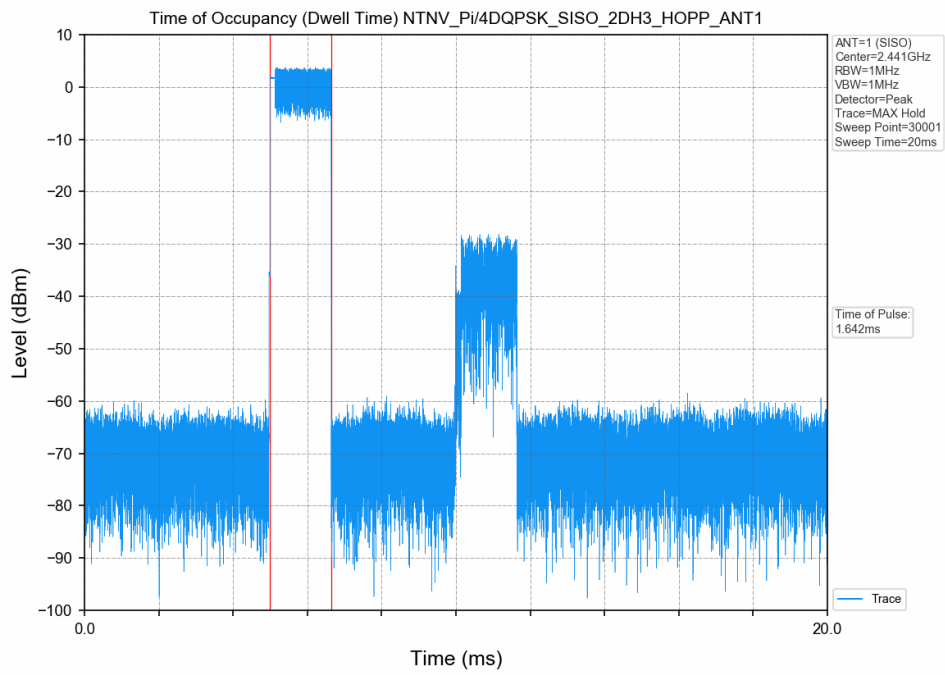
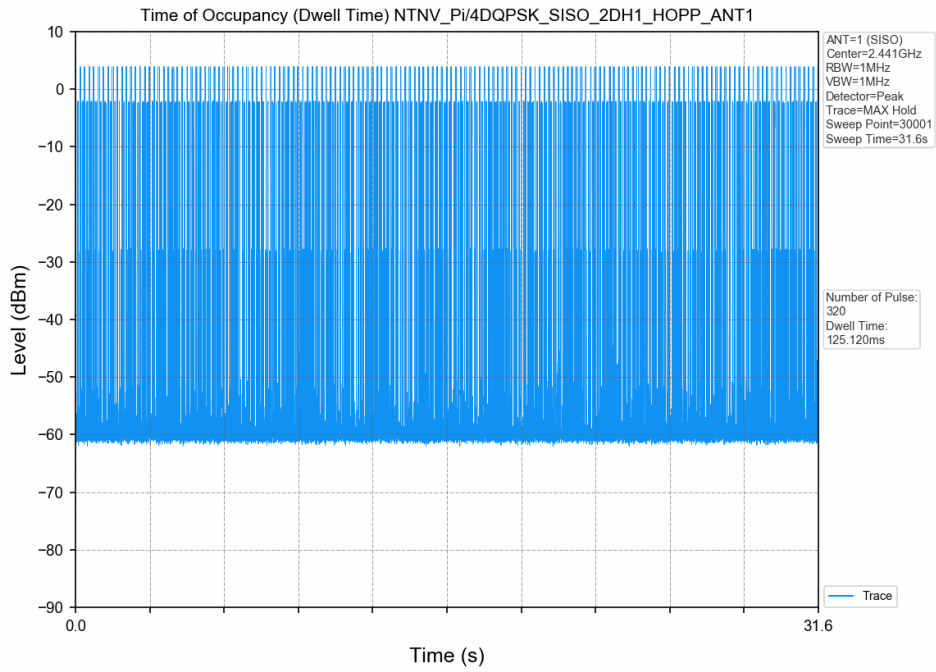
5.2 Test Graph

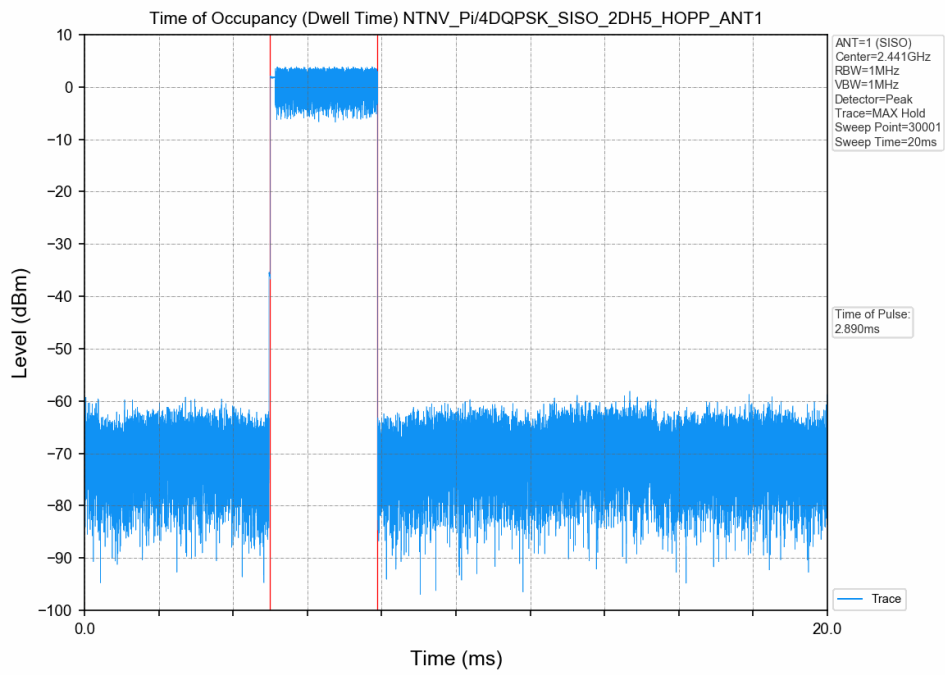
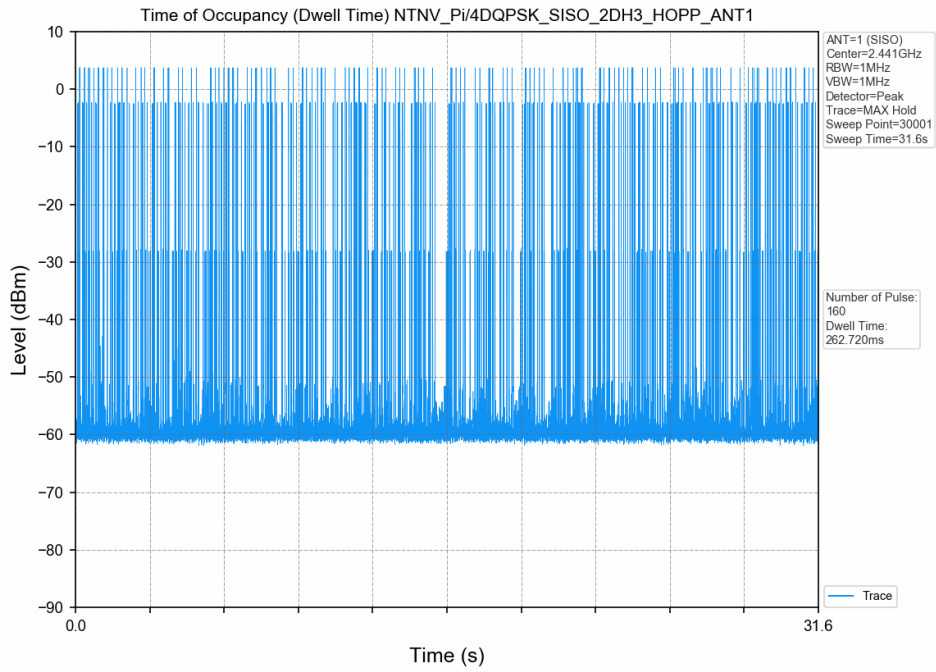


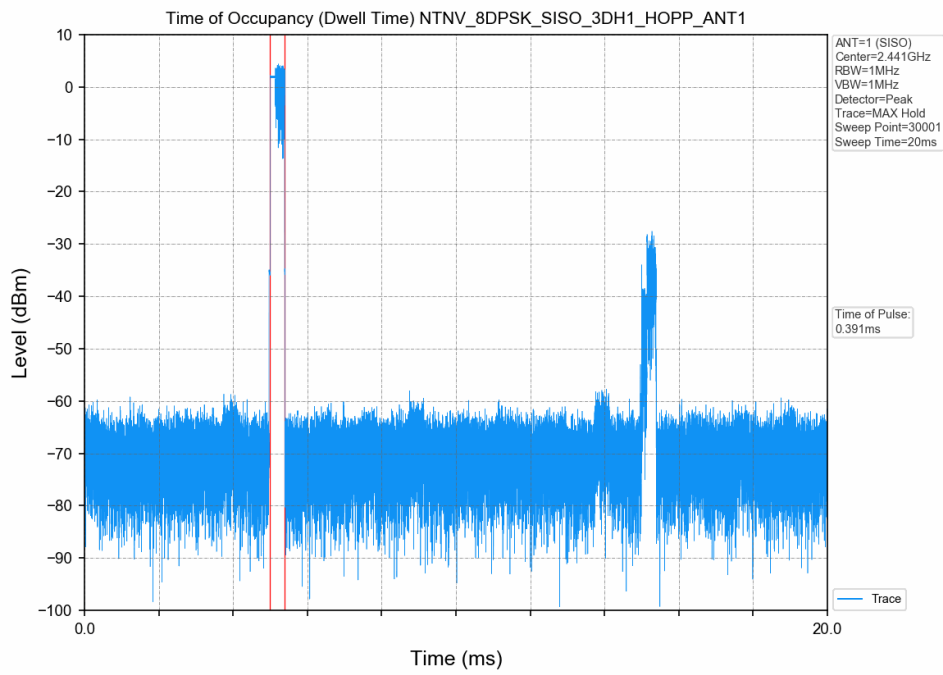
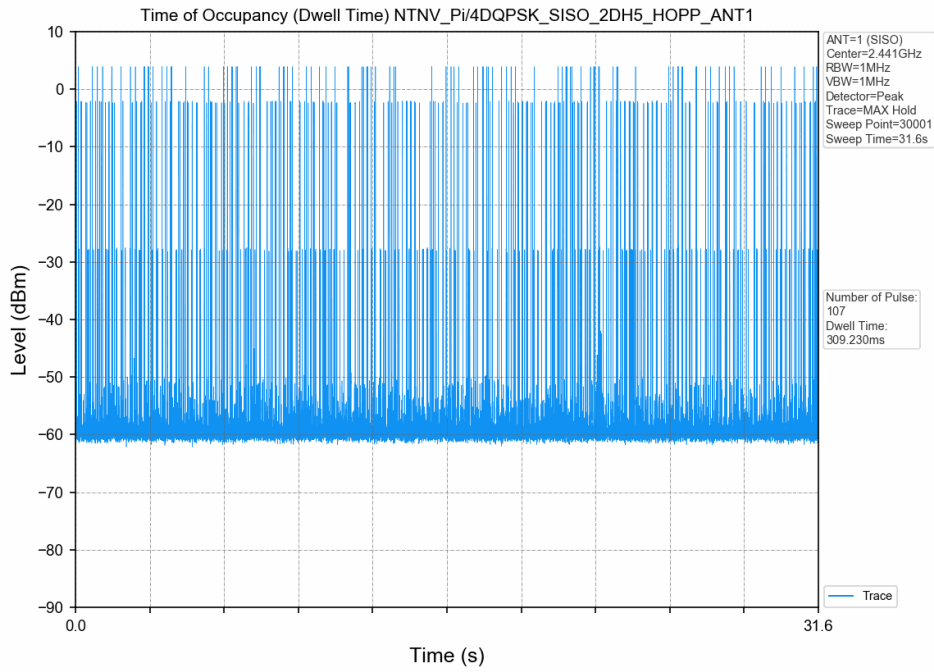


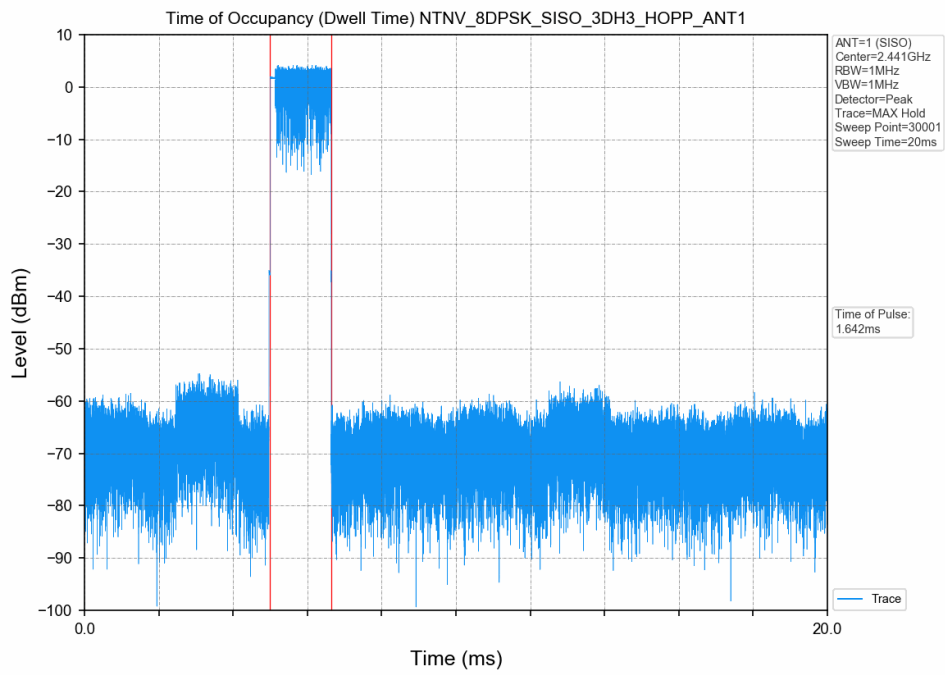
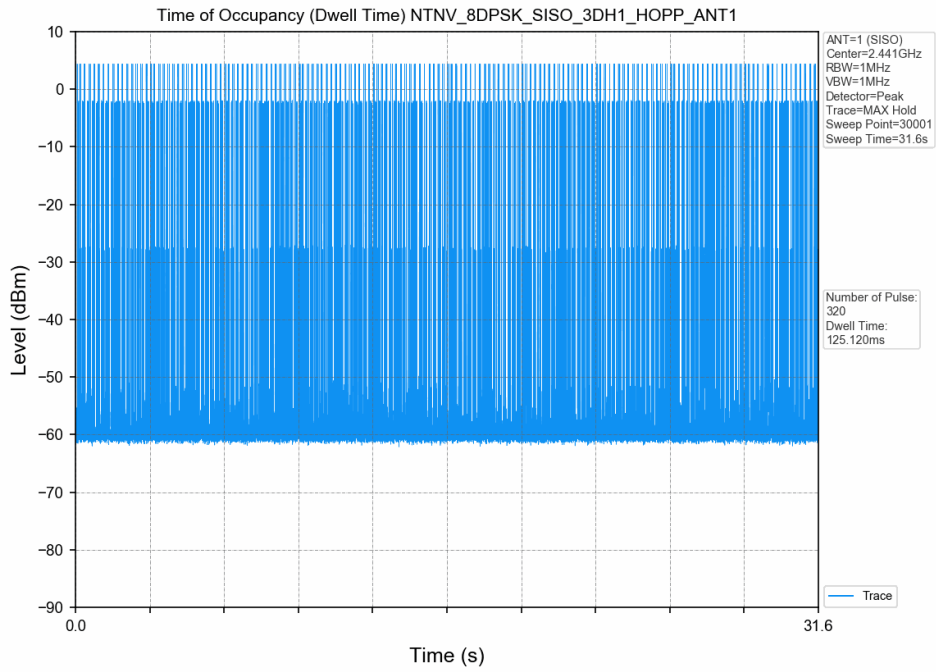


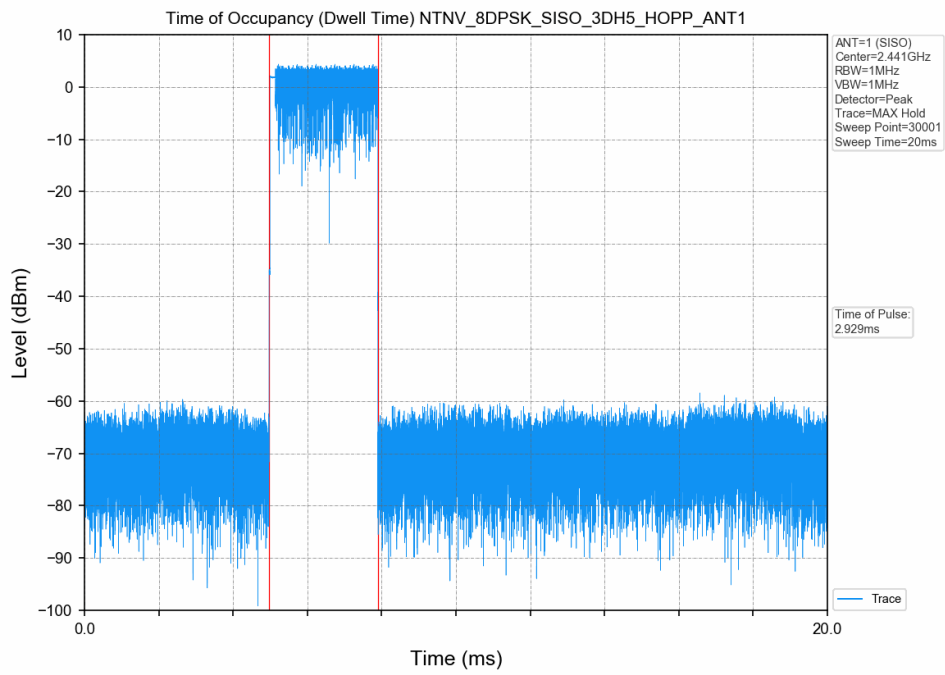
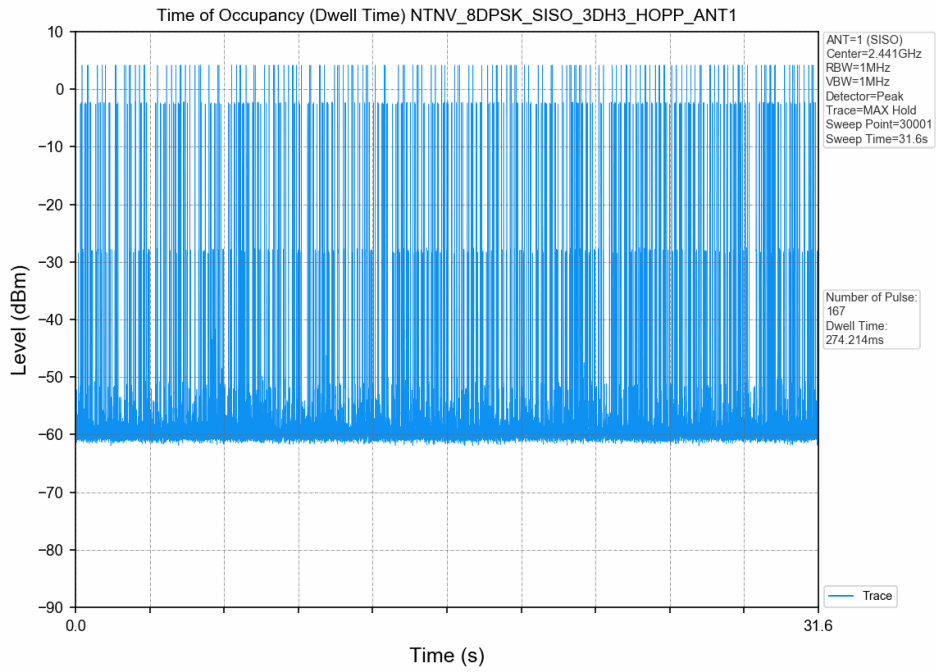


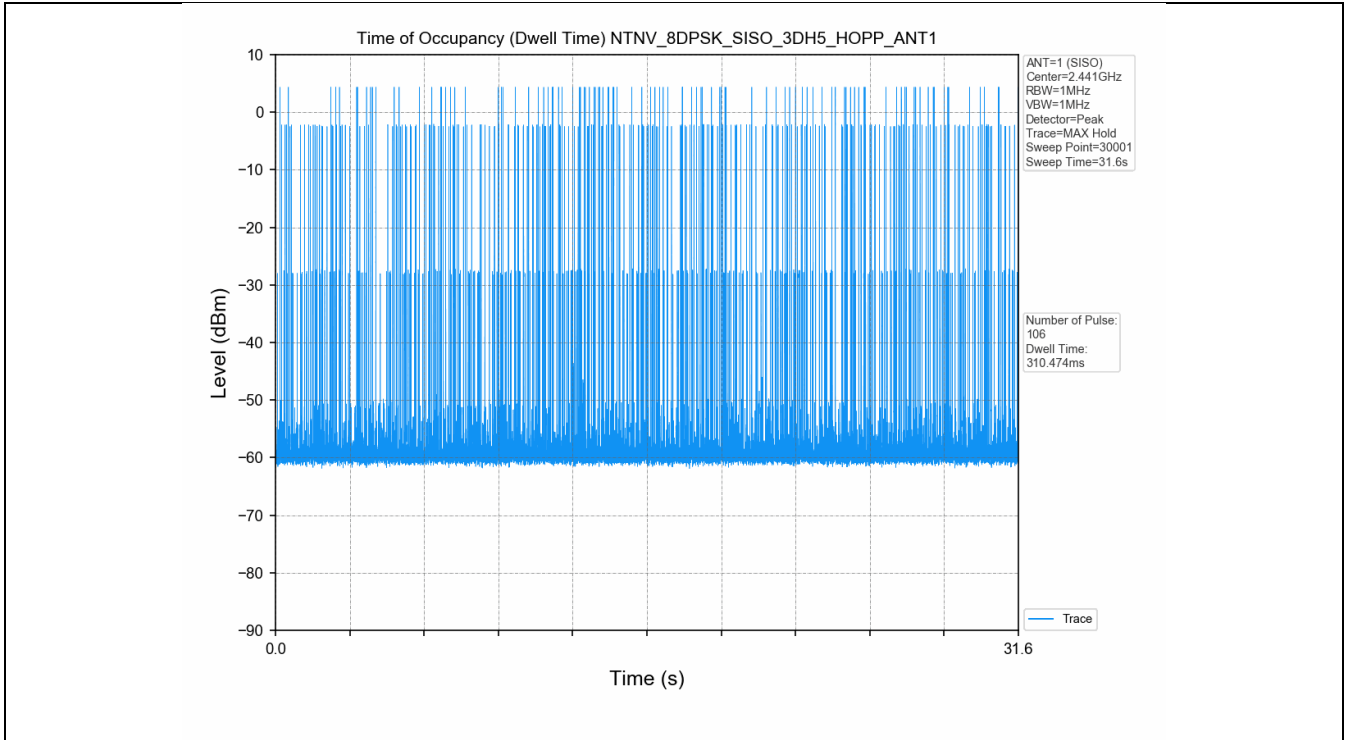










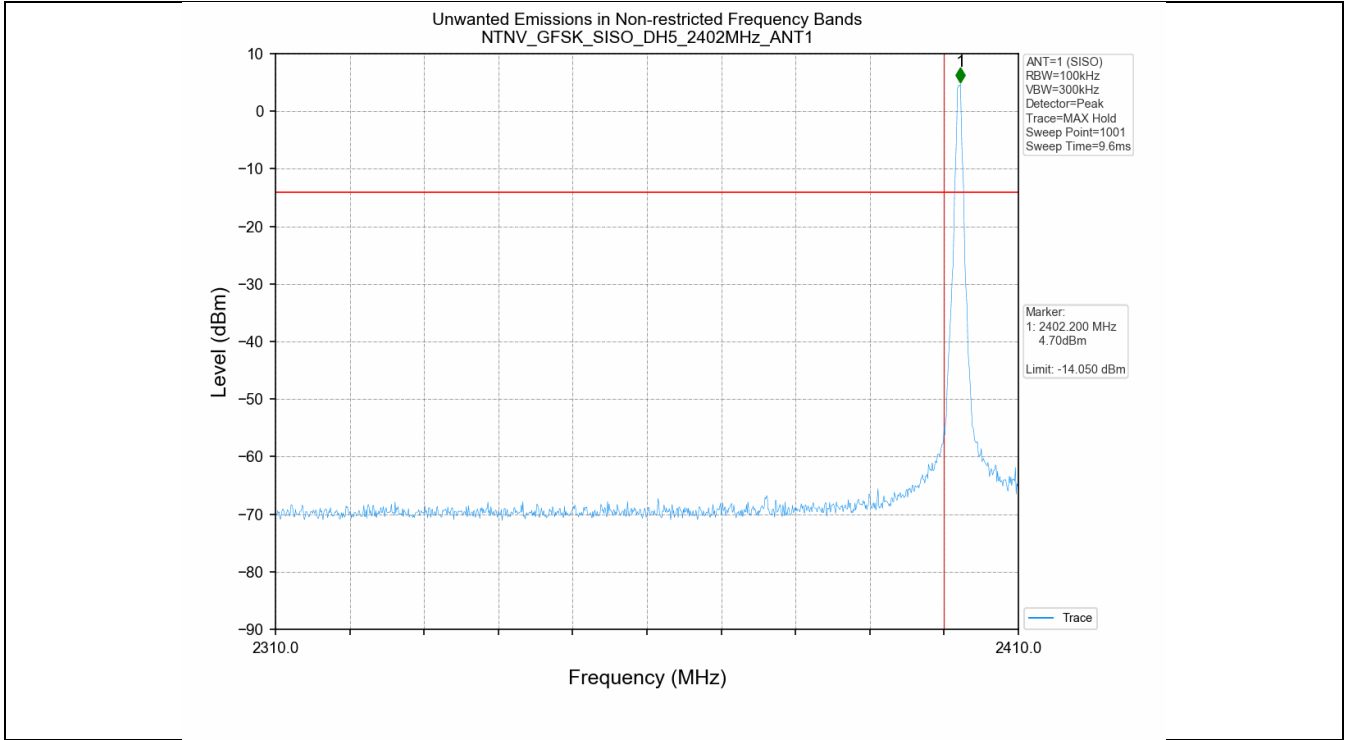
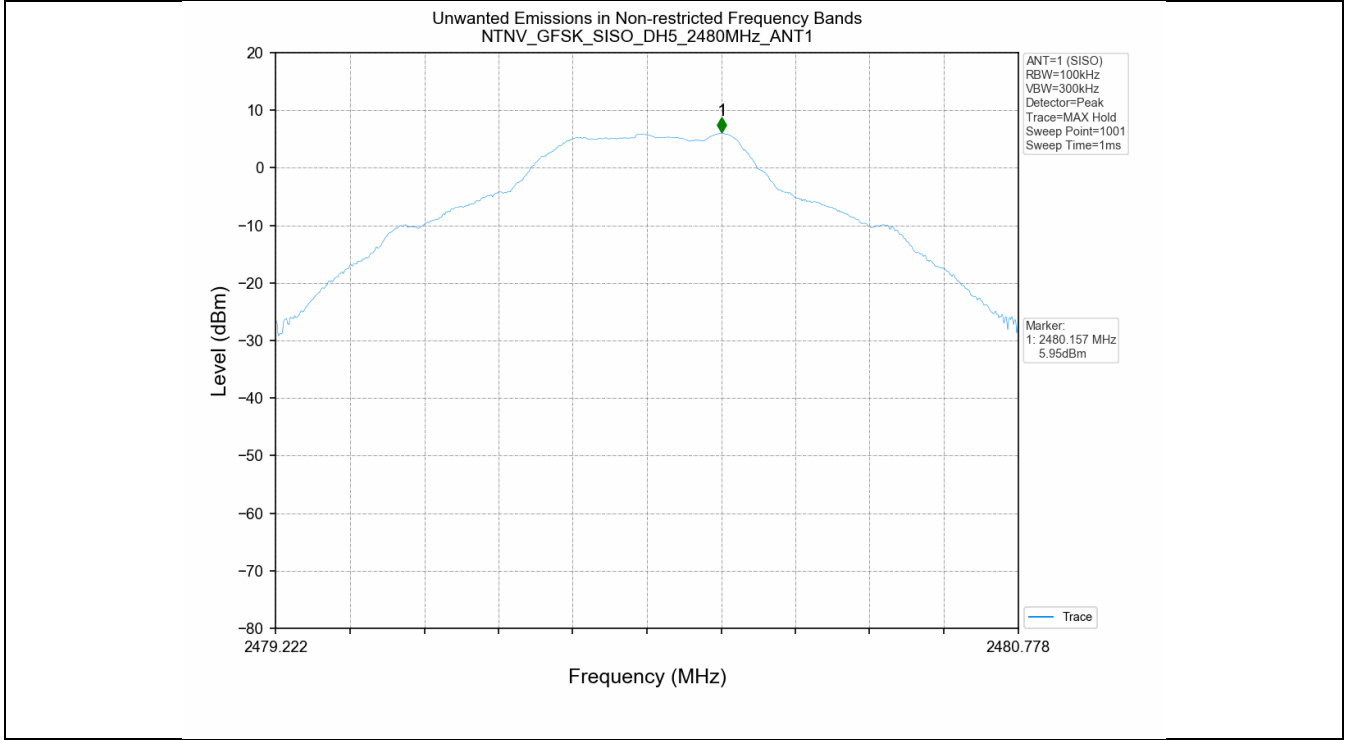


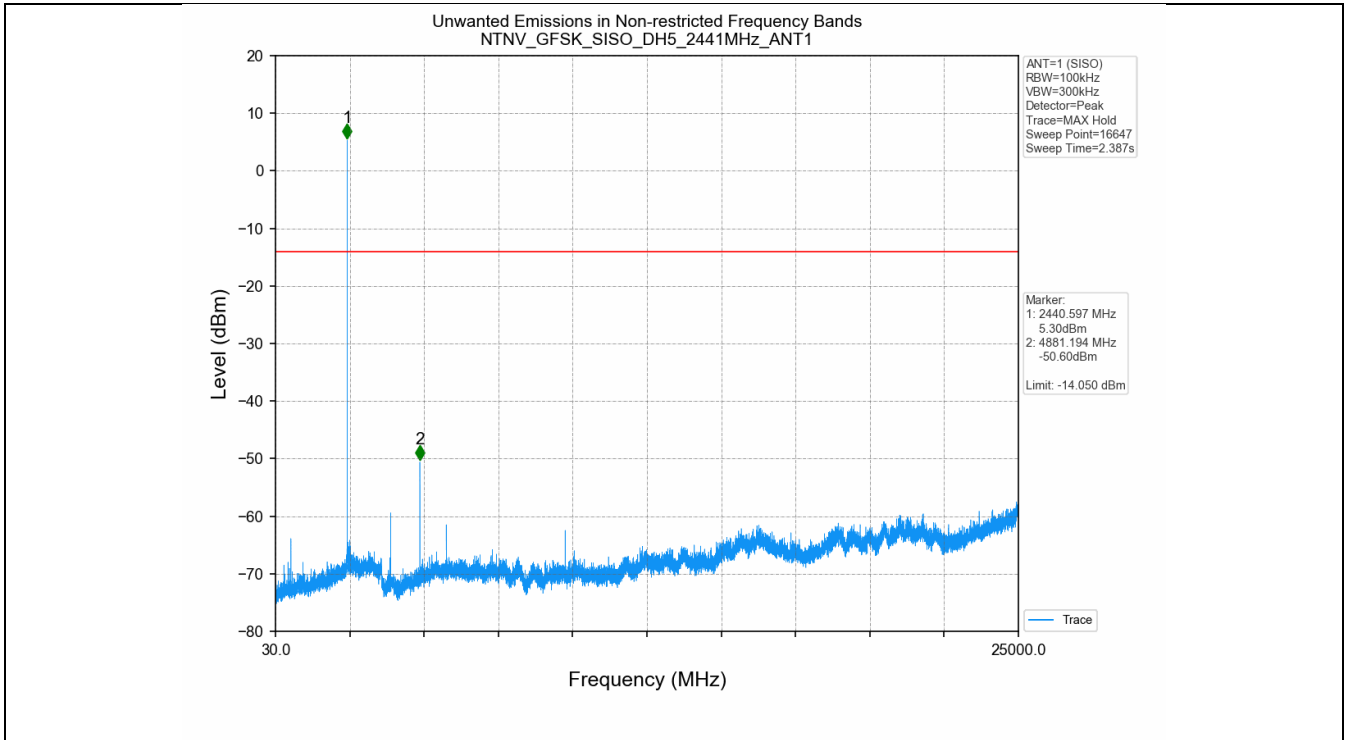
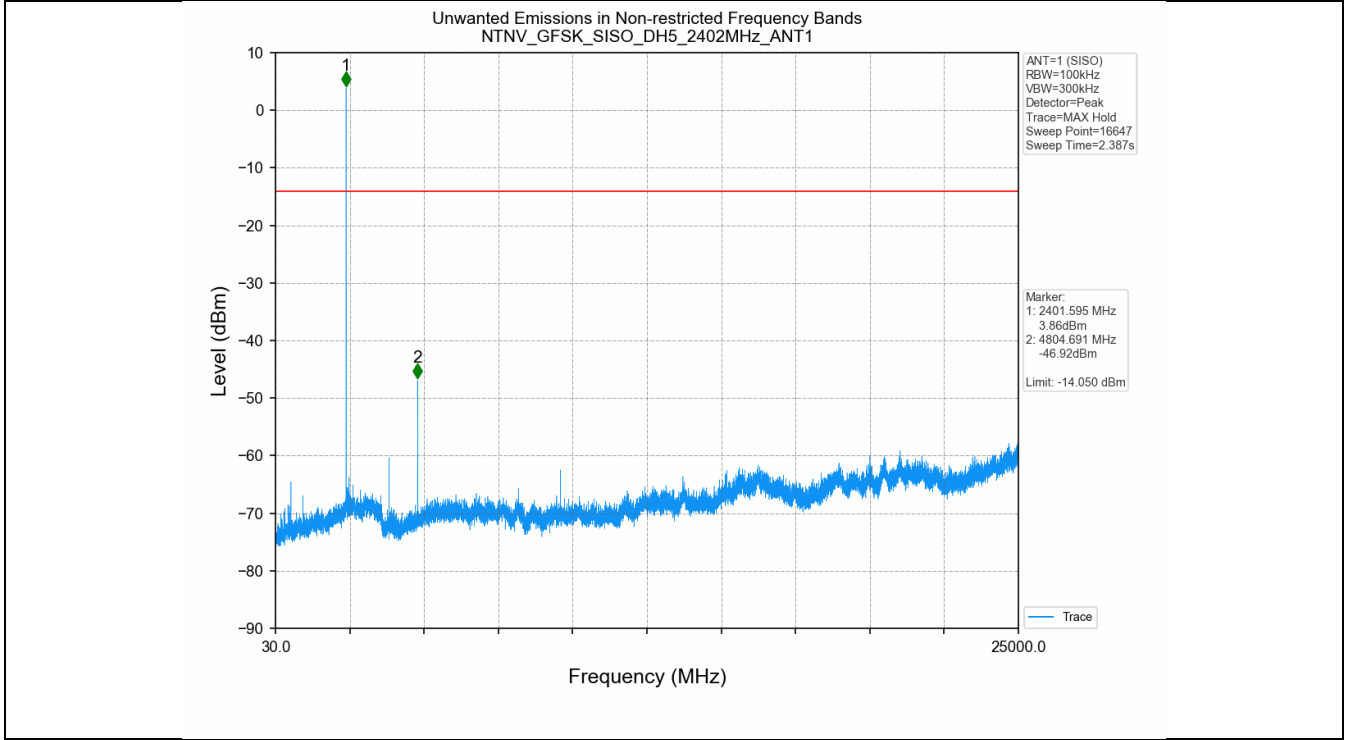
6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

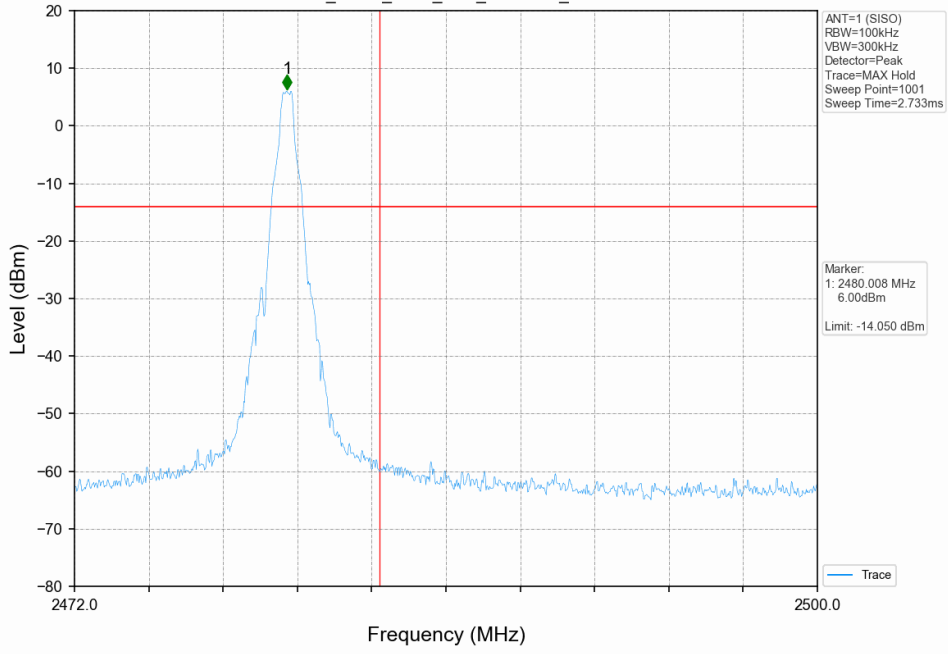
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-14.05	PASS
	2441	SISO	1	Refer to test graph	-14.05	PASS
	2480	SISO	1	Refer to test graph	-14.05	PASS
	Hopping	SISO	1	Refer to test graph	-14.05	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-18.00	PASS
	2441	SISO	1	Refer to test graph	-18.00	PASS
	2480	SISO	1	Refer to test graph	-18.00	PASS
	Hopping	SISO	1	Refer to test graph	-18.00	PASS
8DPSK	2402	SISO	1	Refer to test graph	-17.80	PASS
	2441	SISO	1	Refer to test graph	-17.80	PASS
	2480	SISO	1	Refer to test graph	-17.80	PASS
	Hopping	SISO	1	Refer to test graph	-17.80	PASS

6.2 Test Graph

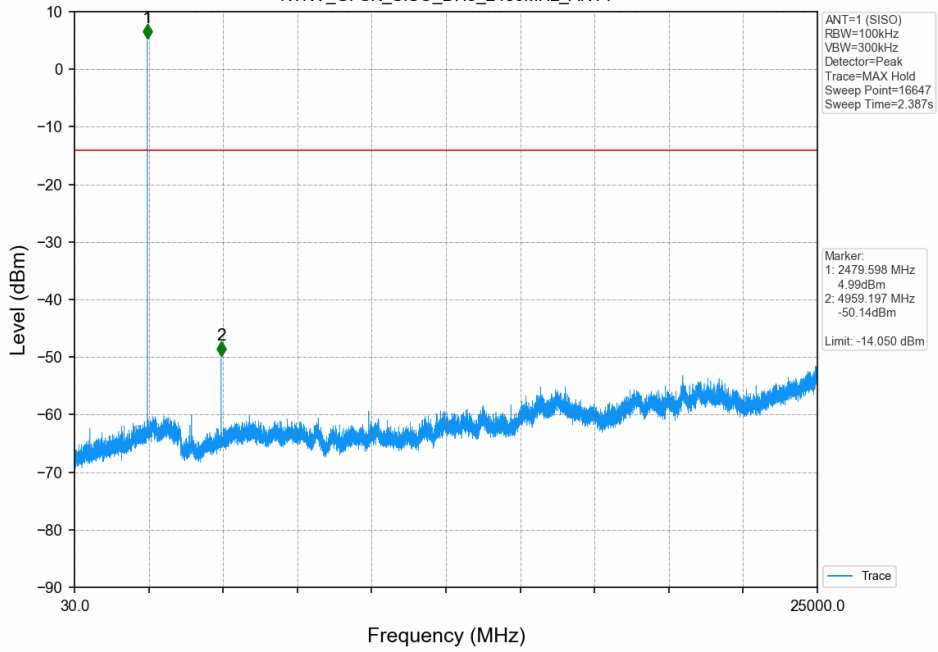




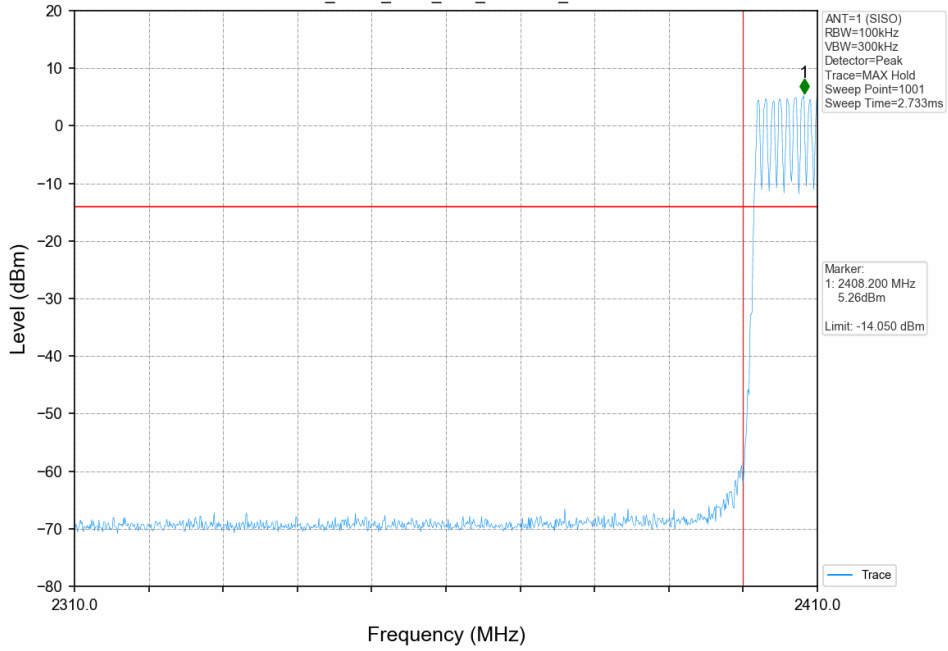
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2480MHz_ANT1



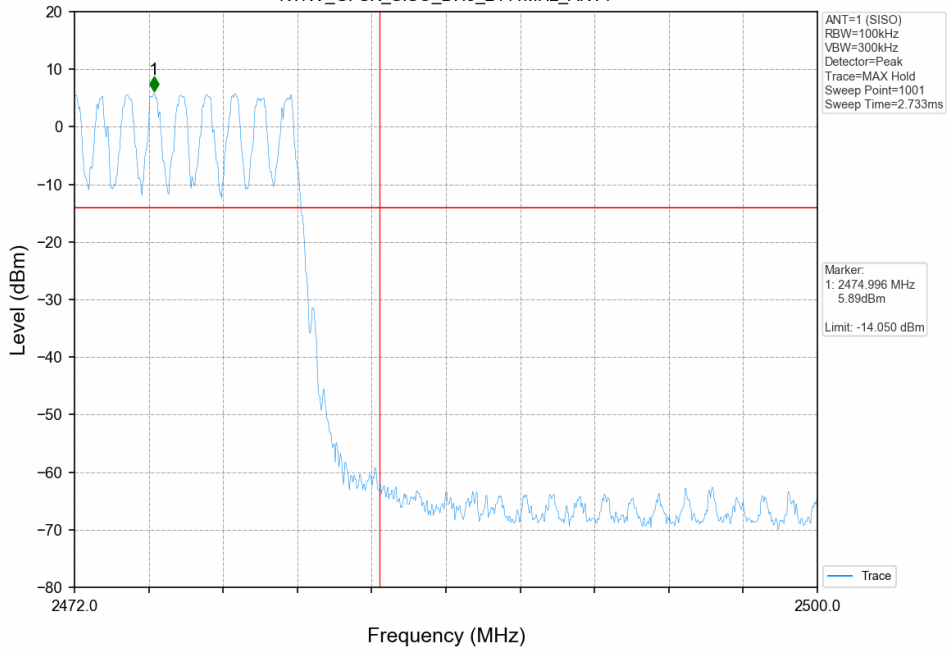
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2480MHz_ANT1



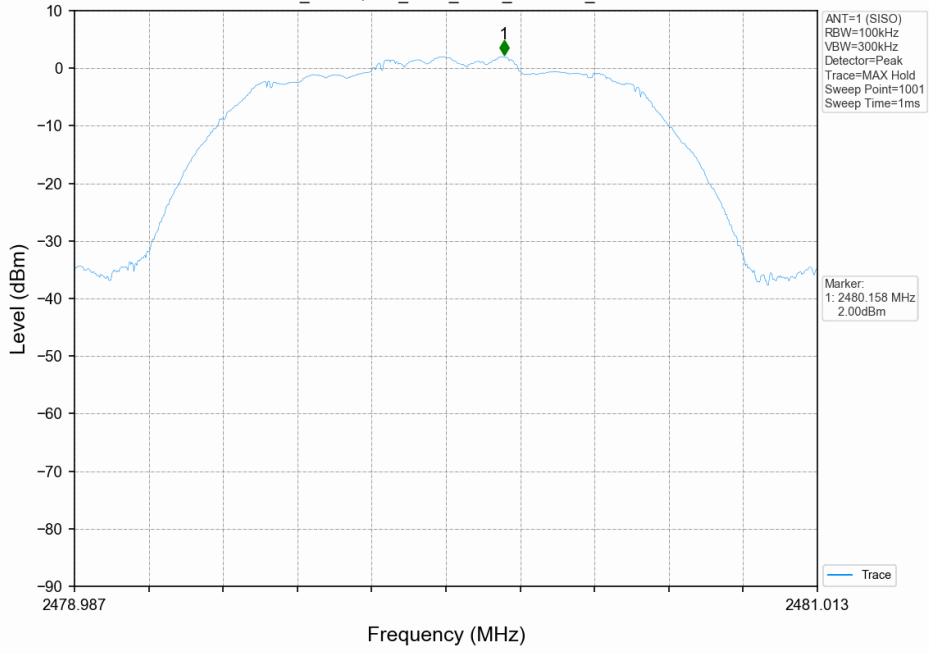
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1



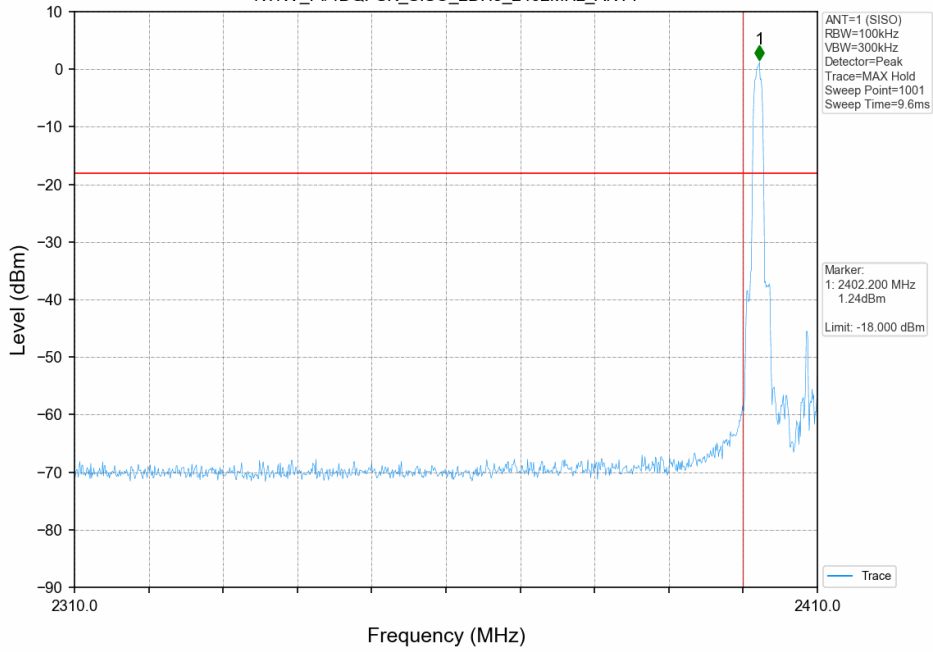
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

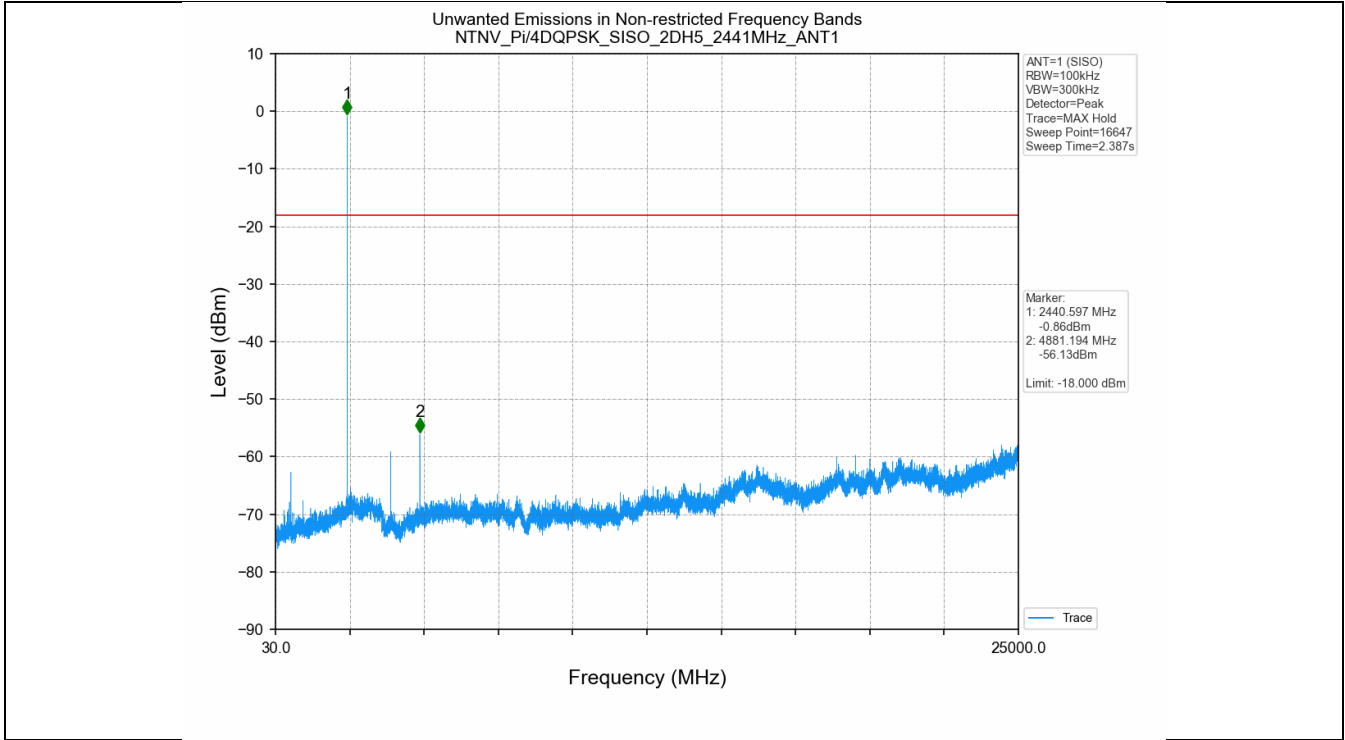
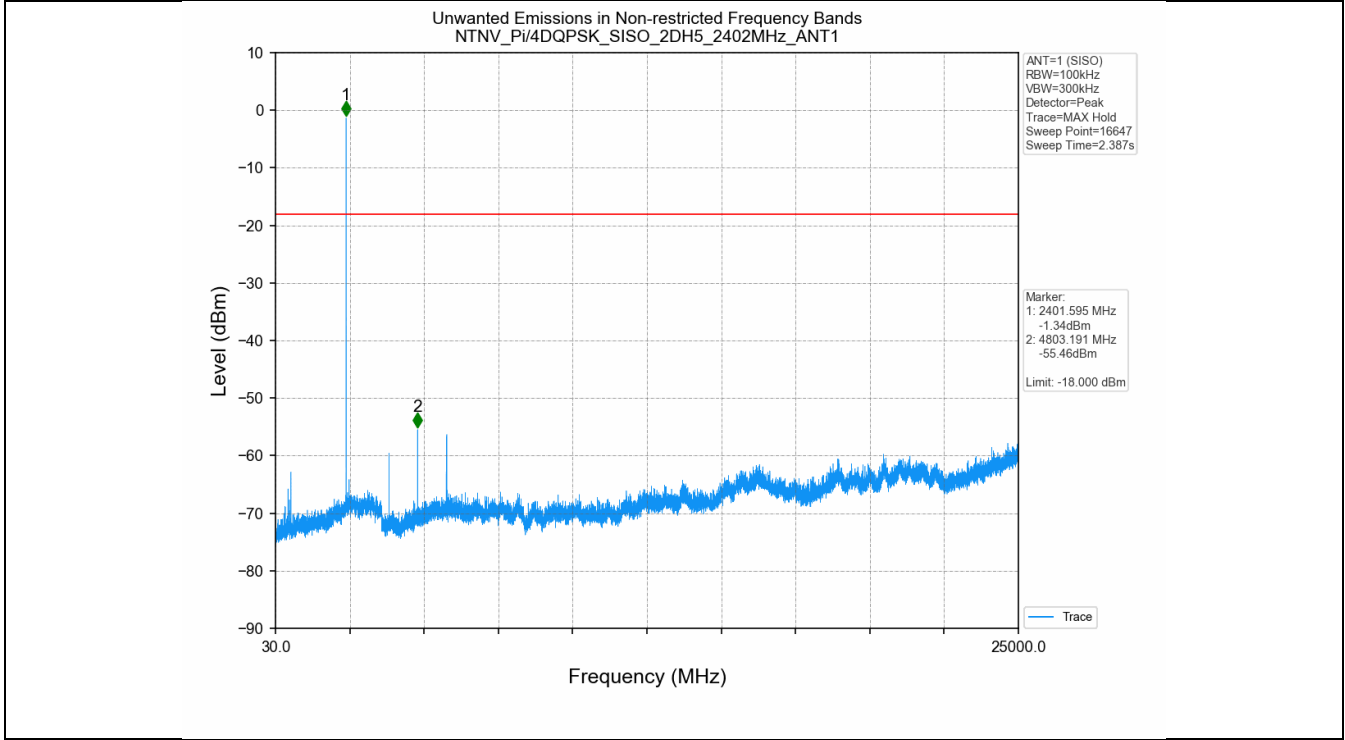


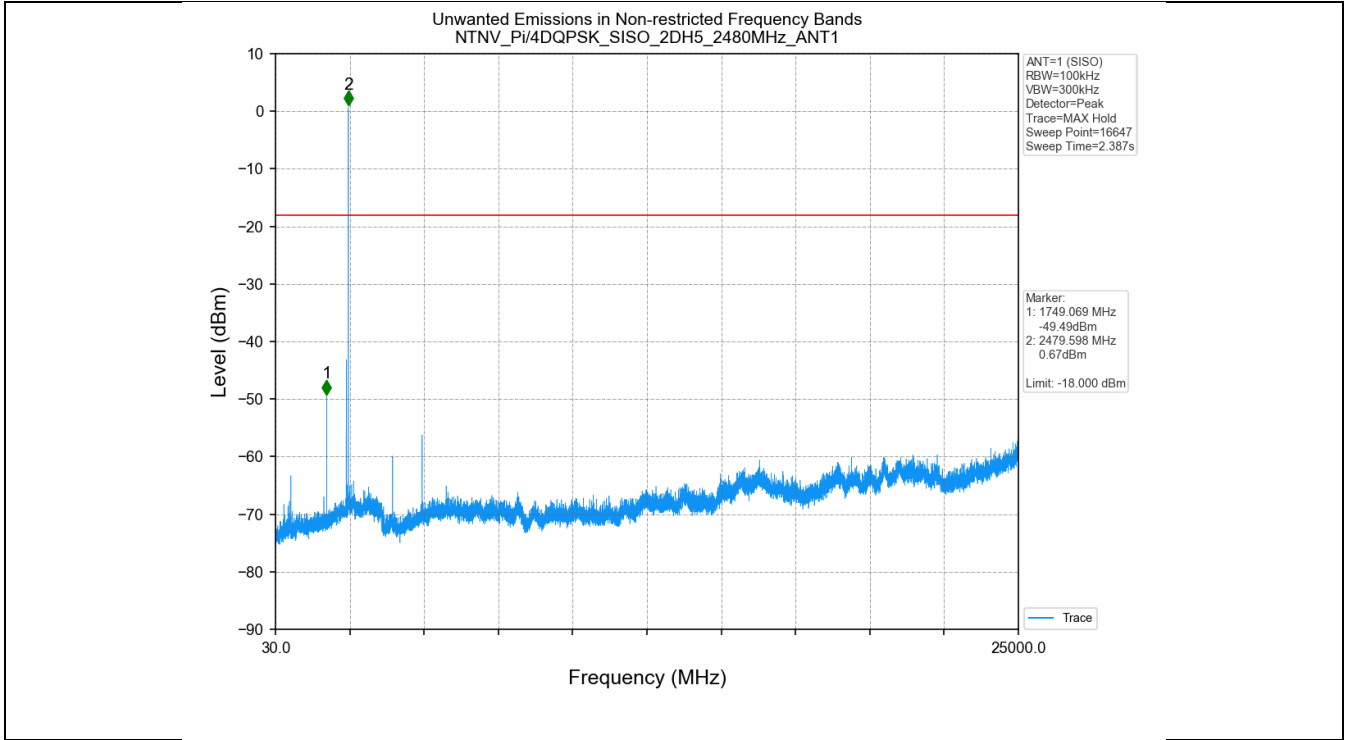
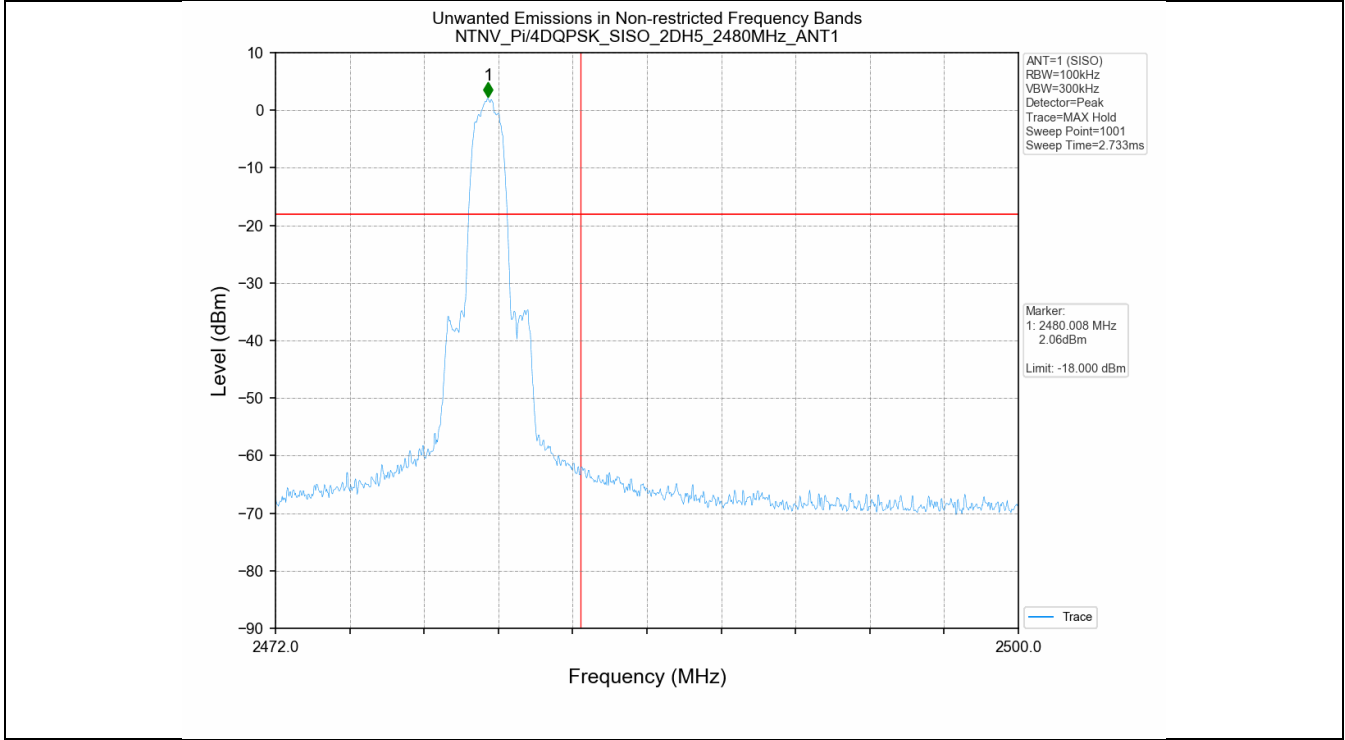
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2480MHz_ANT1



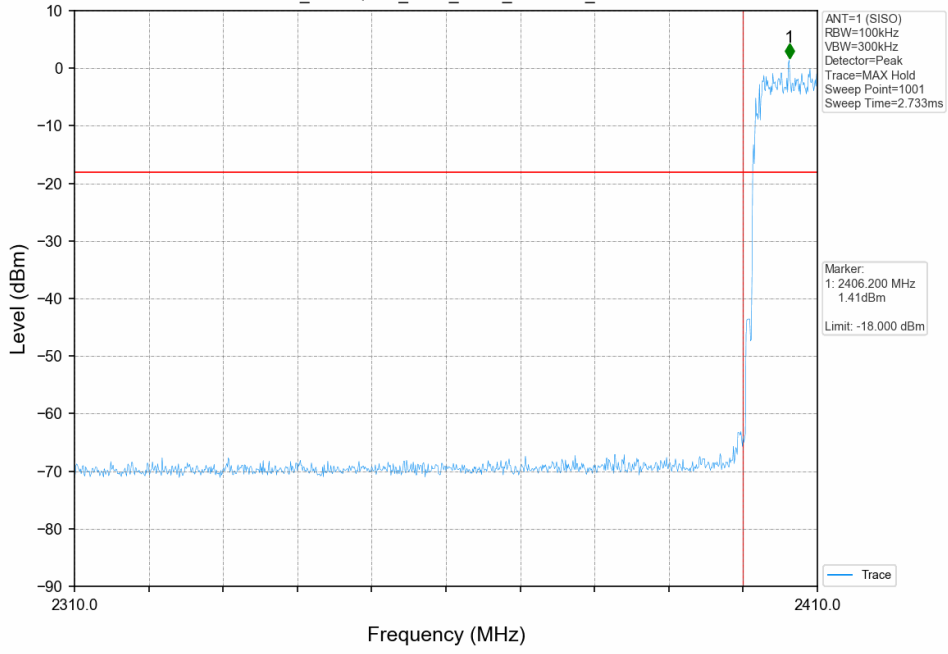
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2402MHz_ANT1



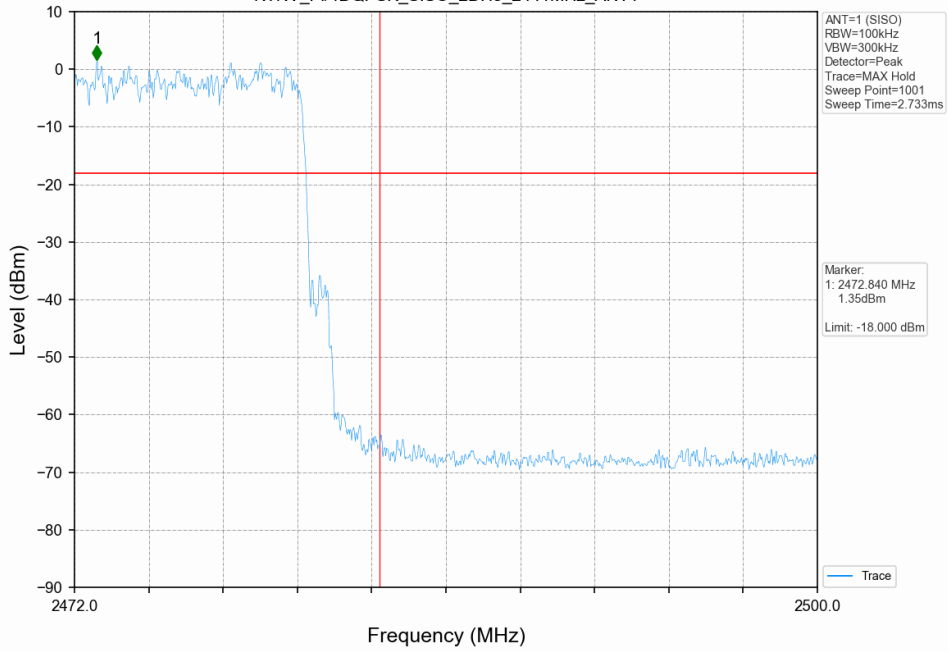


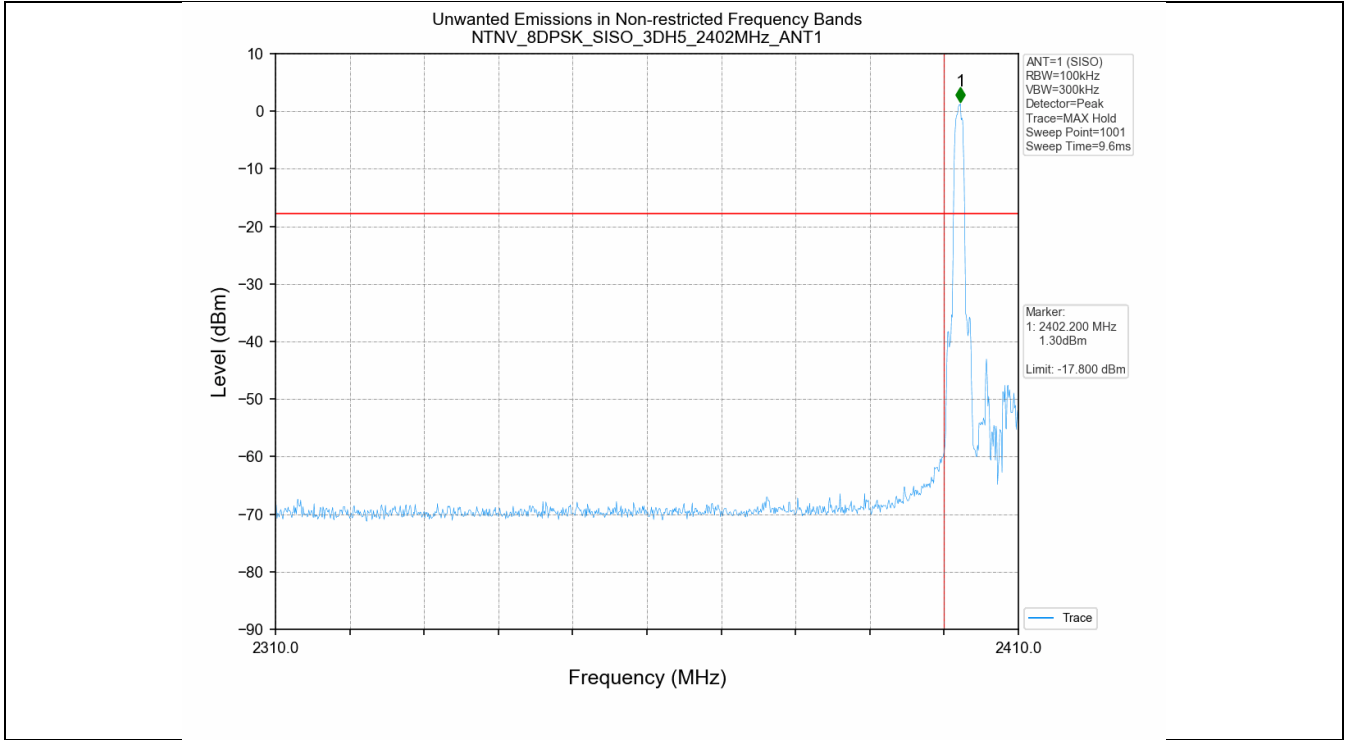
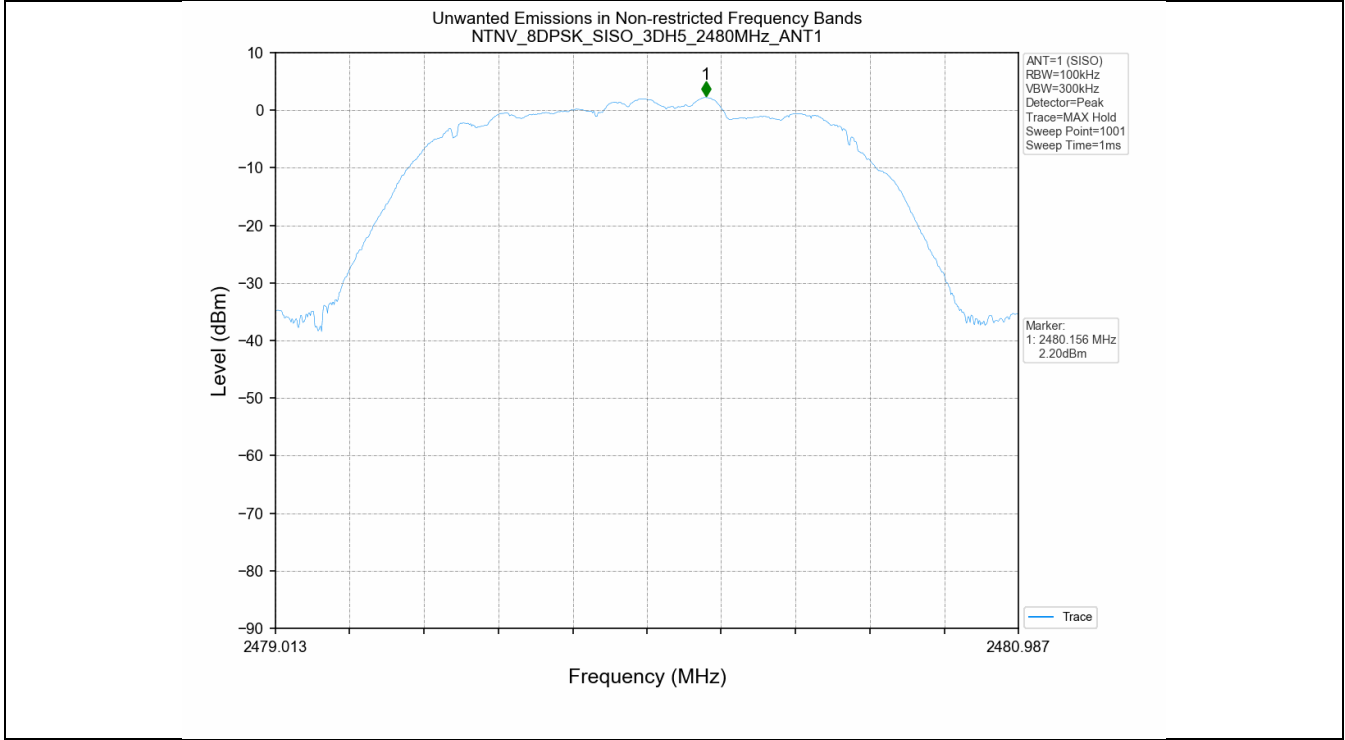


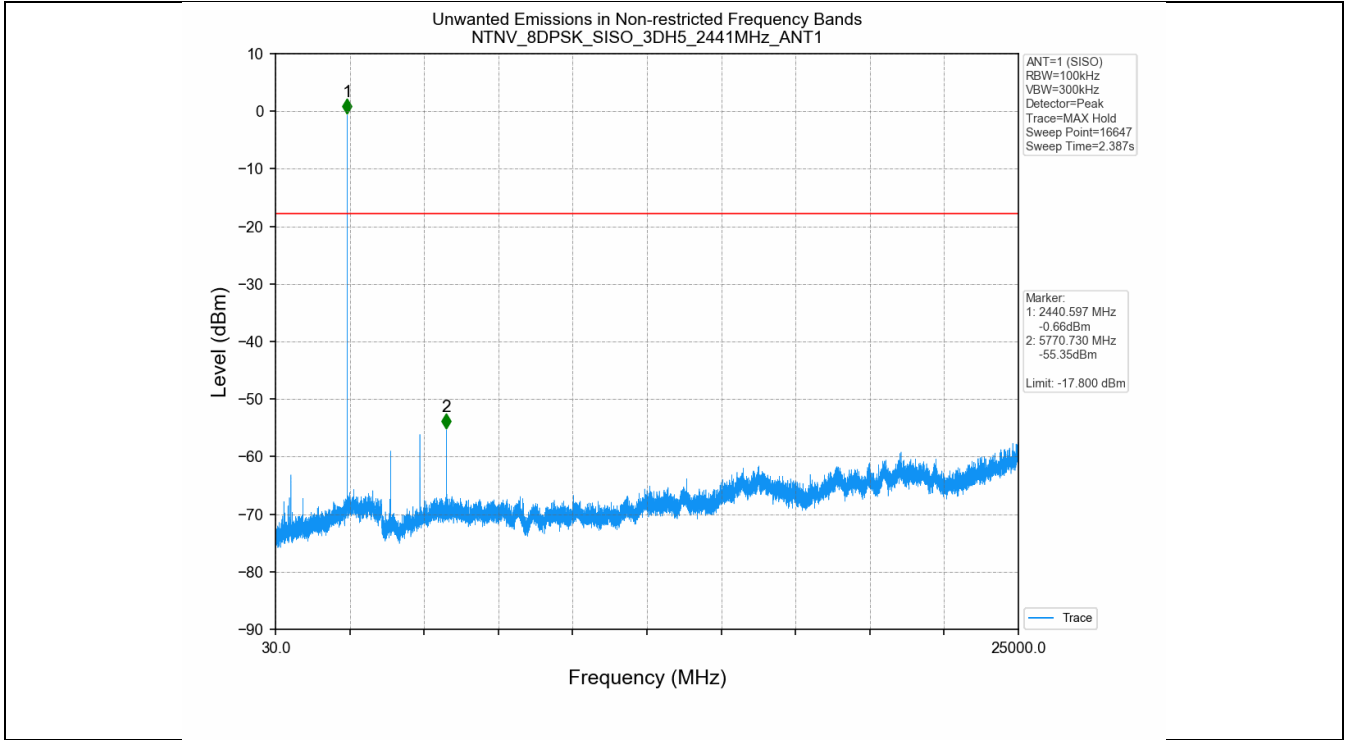
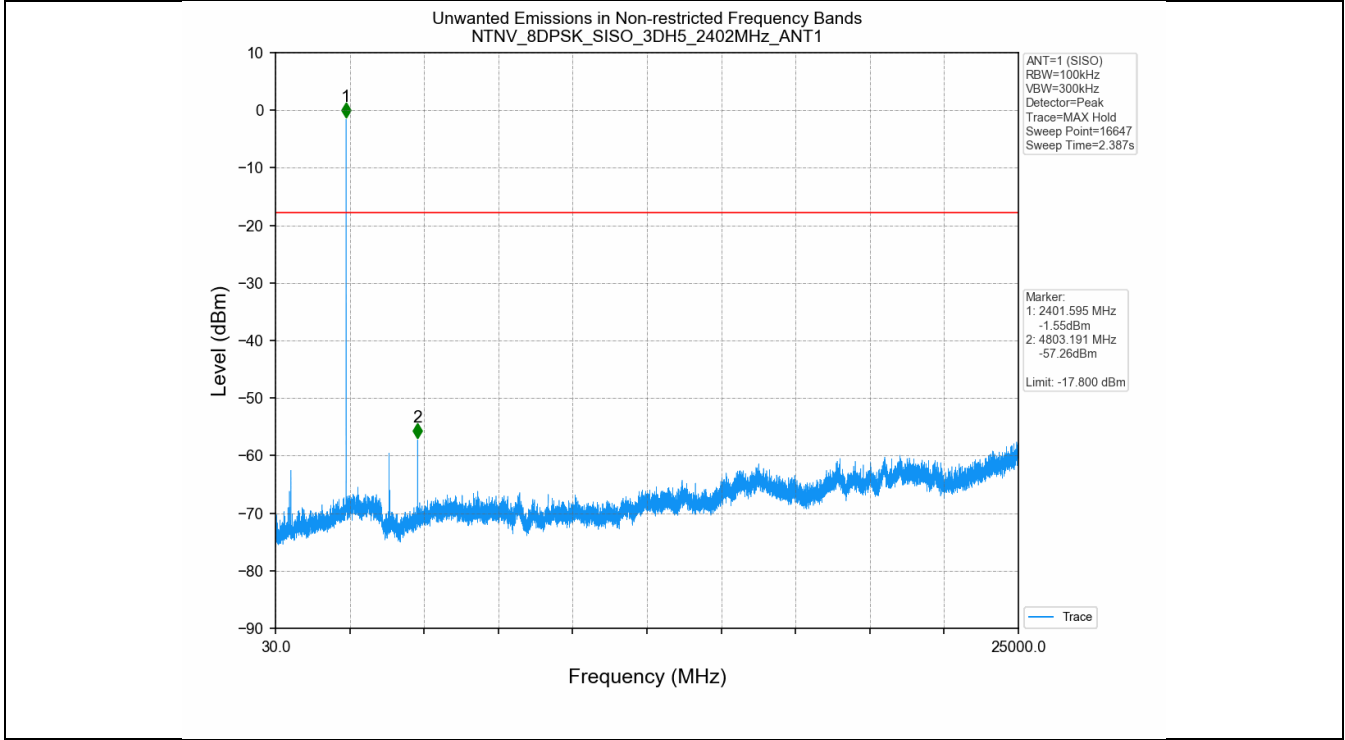
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2441MHz_ANT1

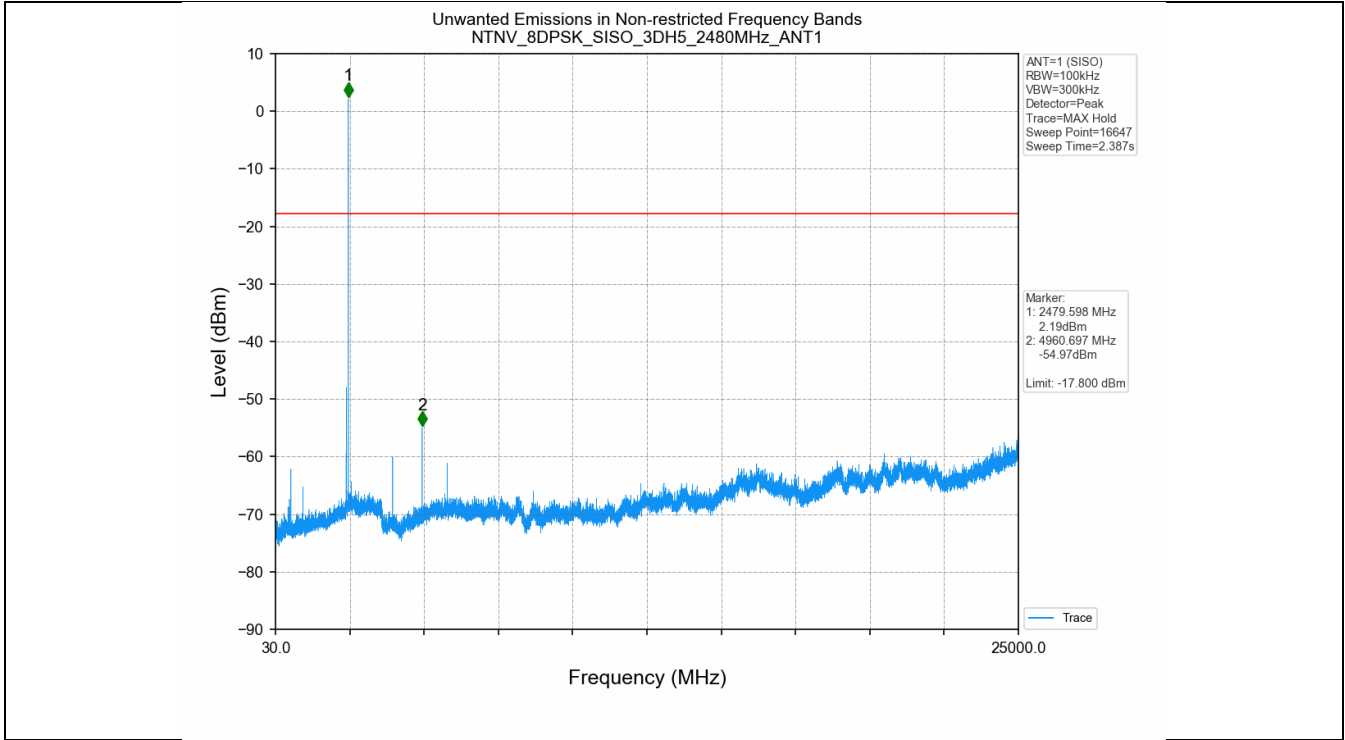
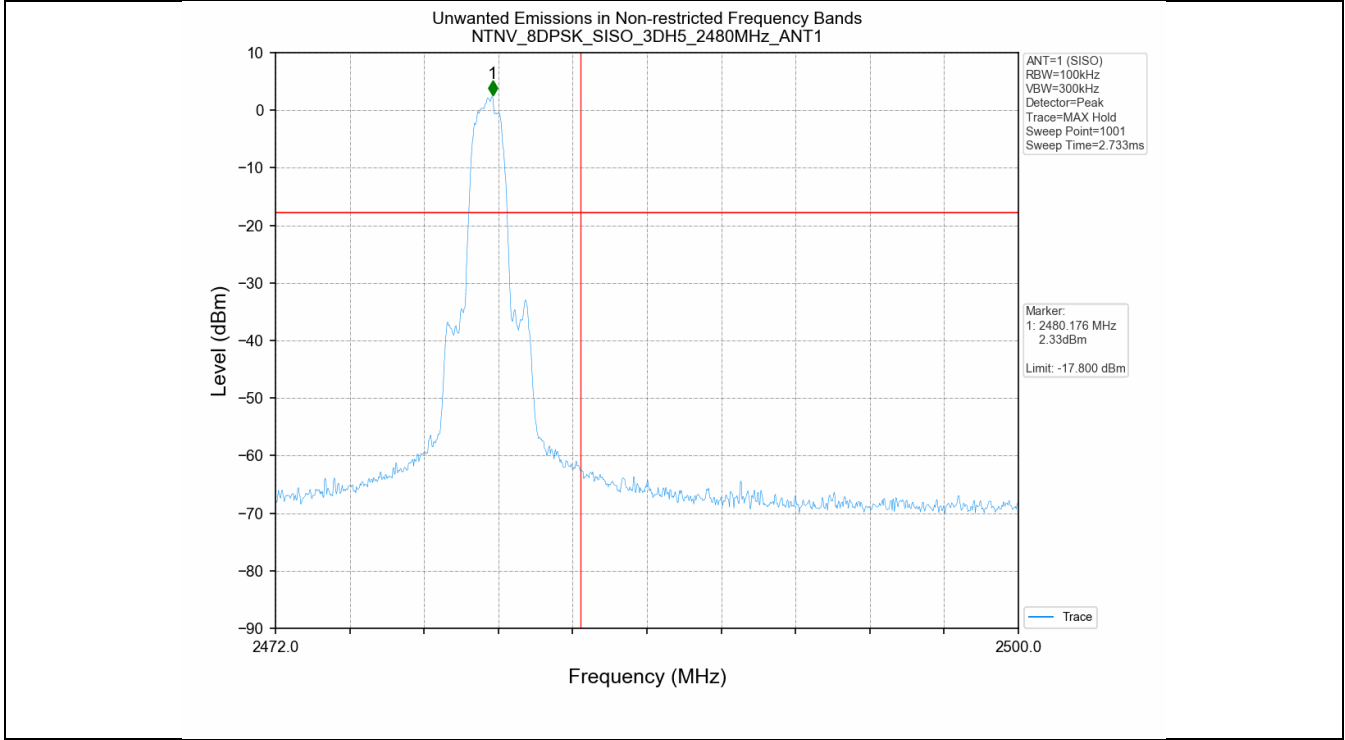


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2441MHz_ANT1

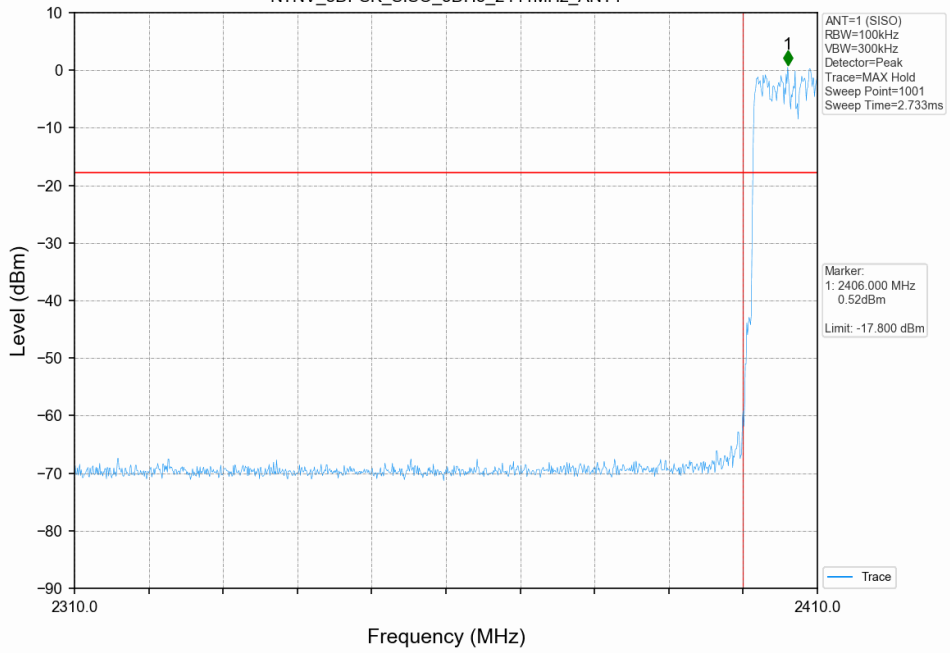








Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1

