

## Appendix A for SHEM210500493401

### 1. Duty Cycle

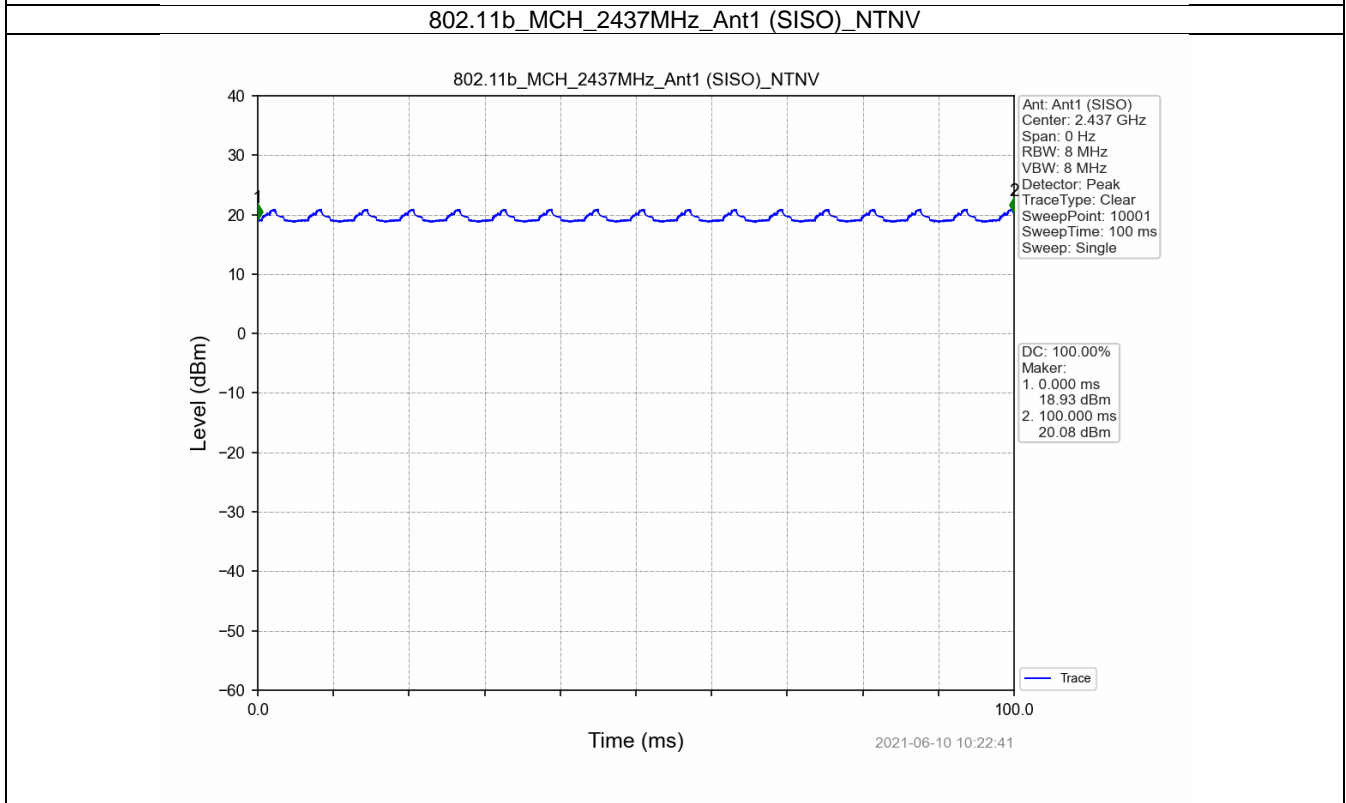
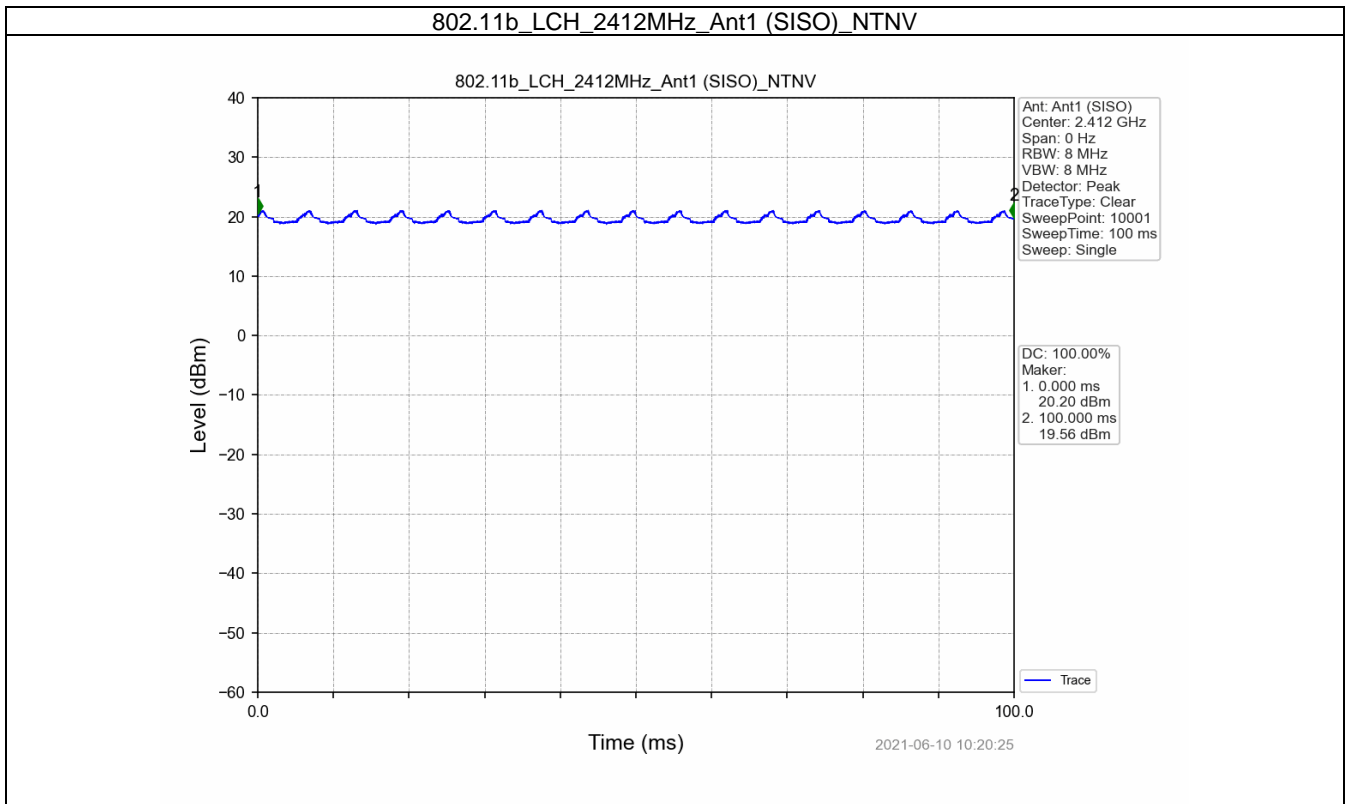
#### 1.1 Ant1

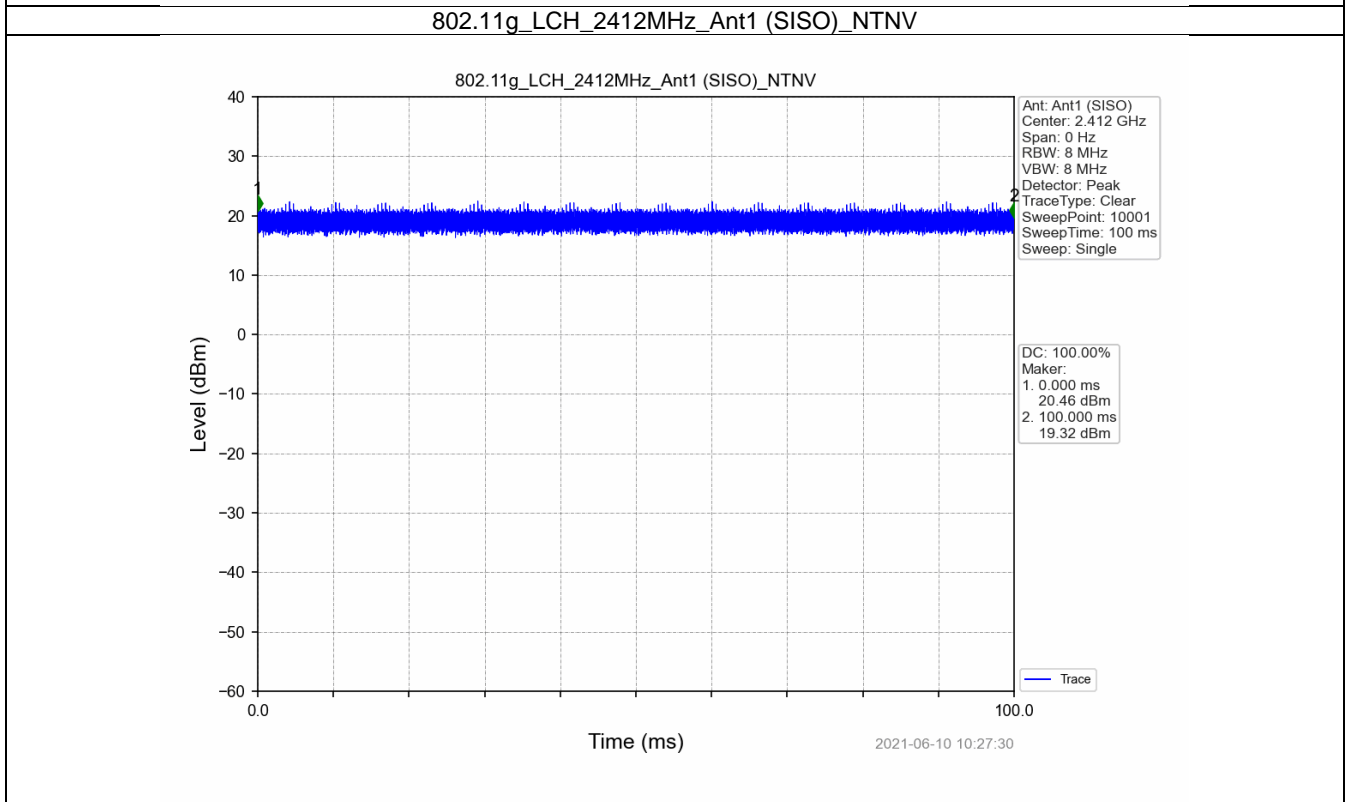
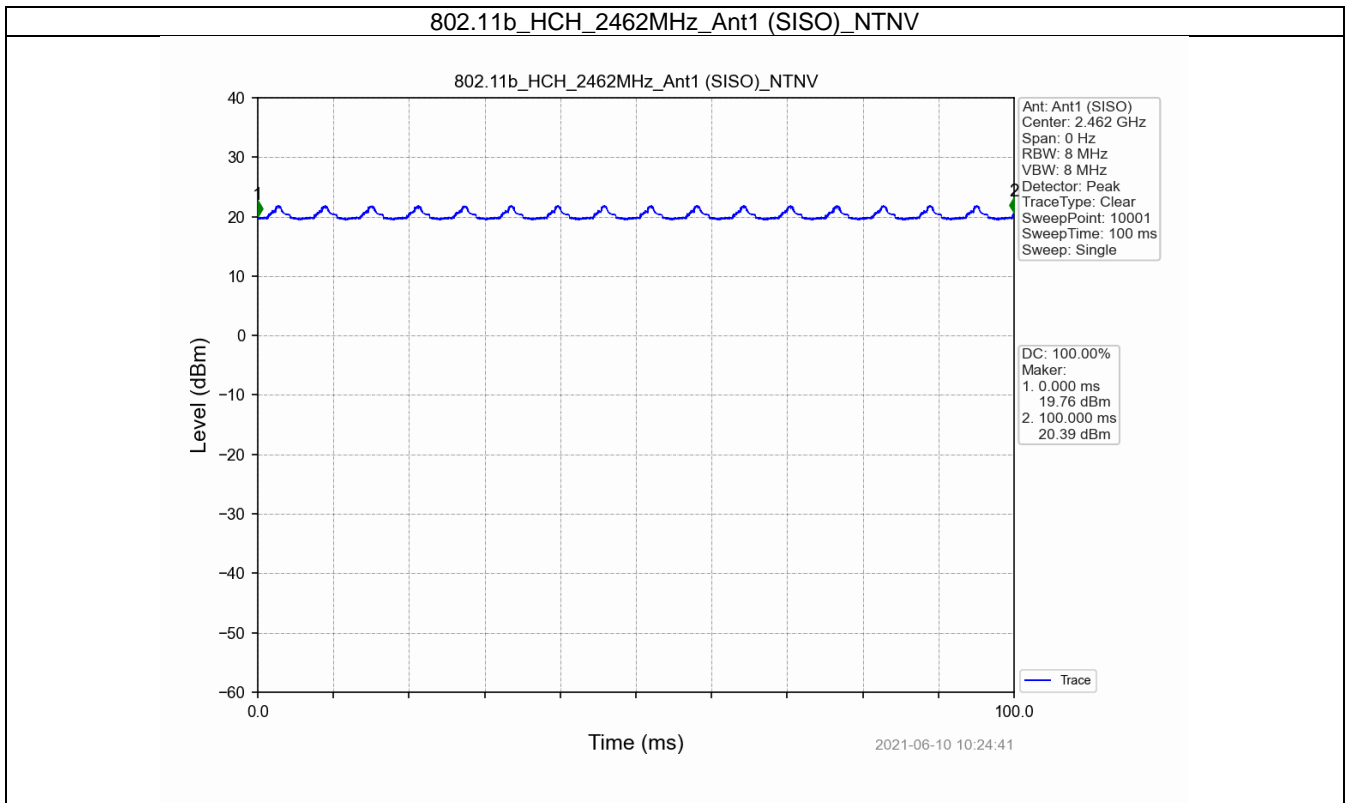
##### 1.1.1 Test Result

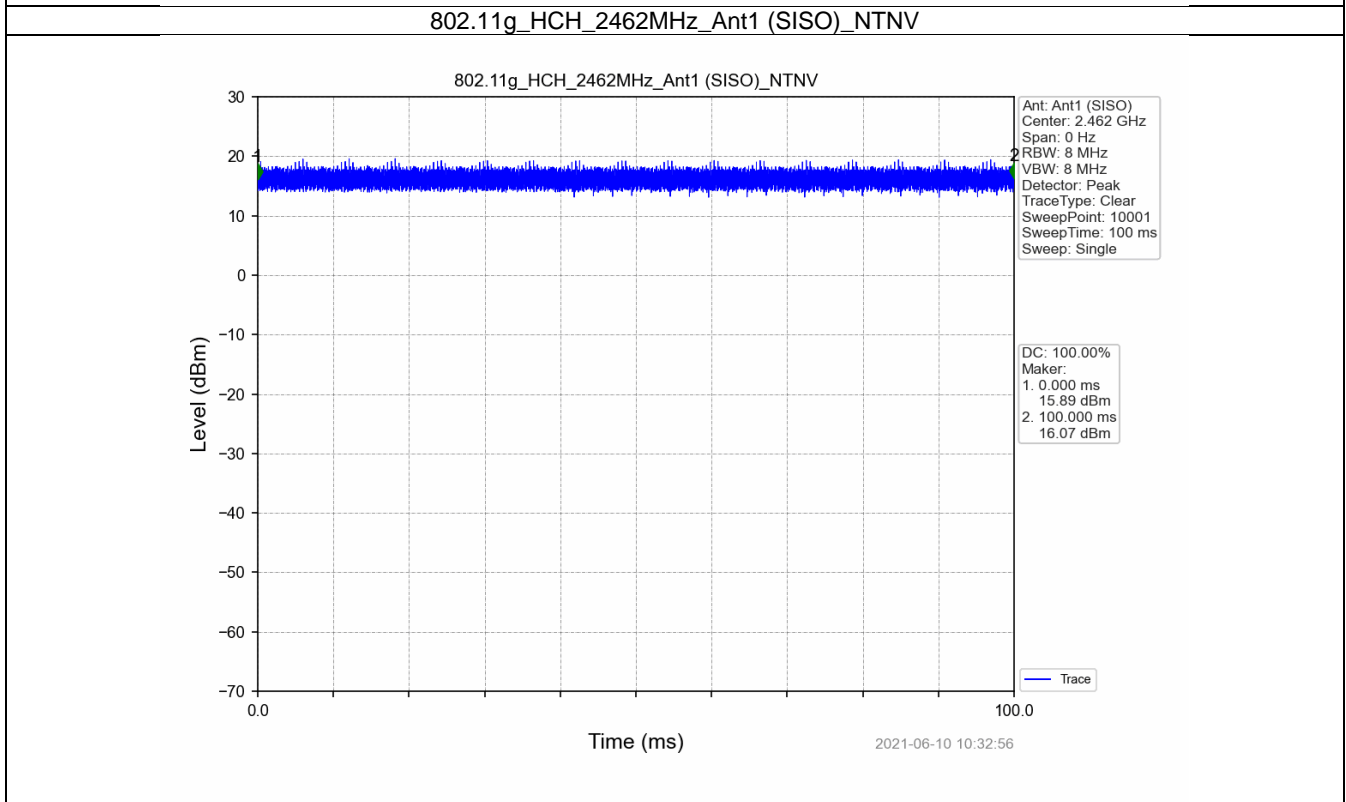
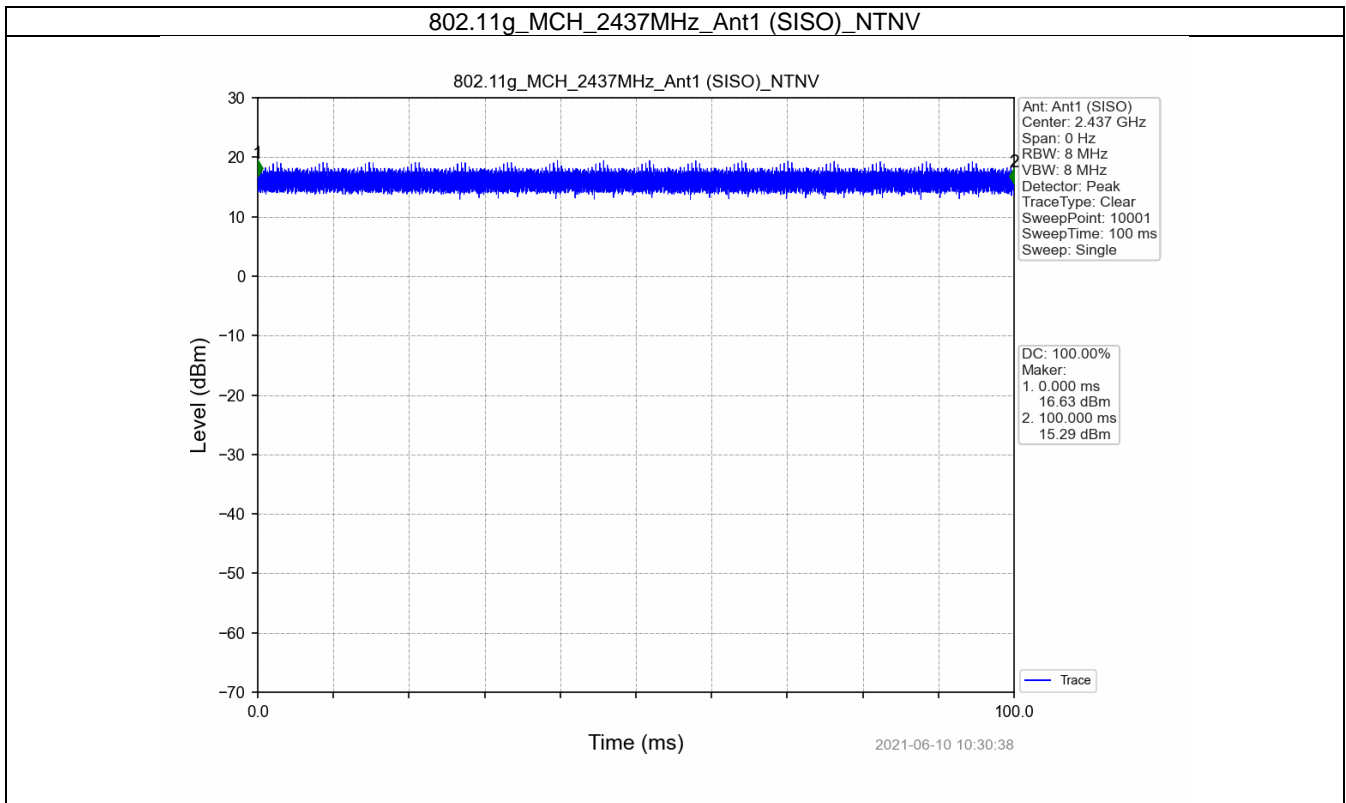
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11g	SISO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11n (HT20)	MIMO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11n (HT40)	MIMO	2422	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2452	/	/	100.00	100.00	100.00	0.00	0.00

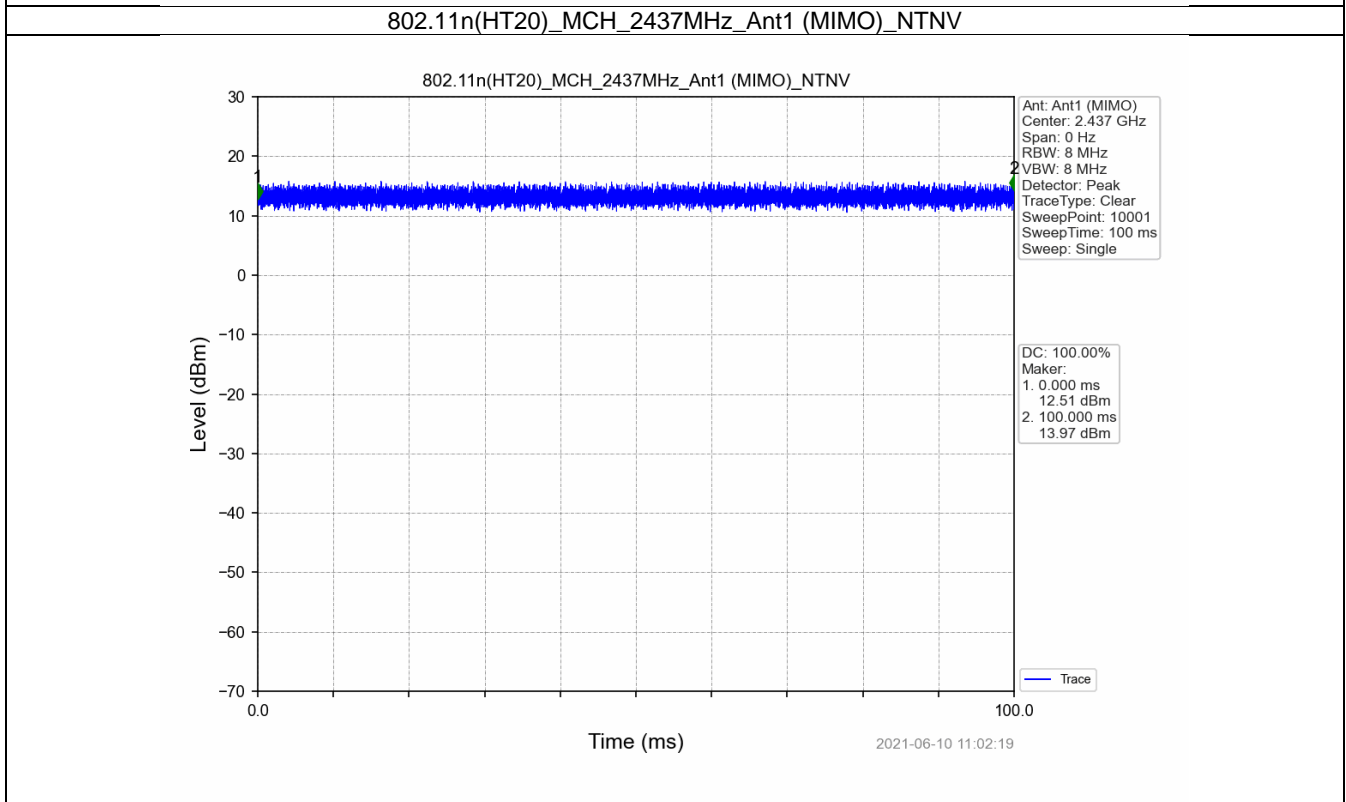
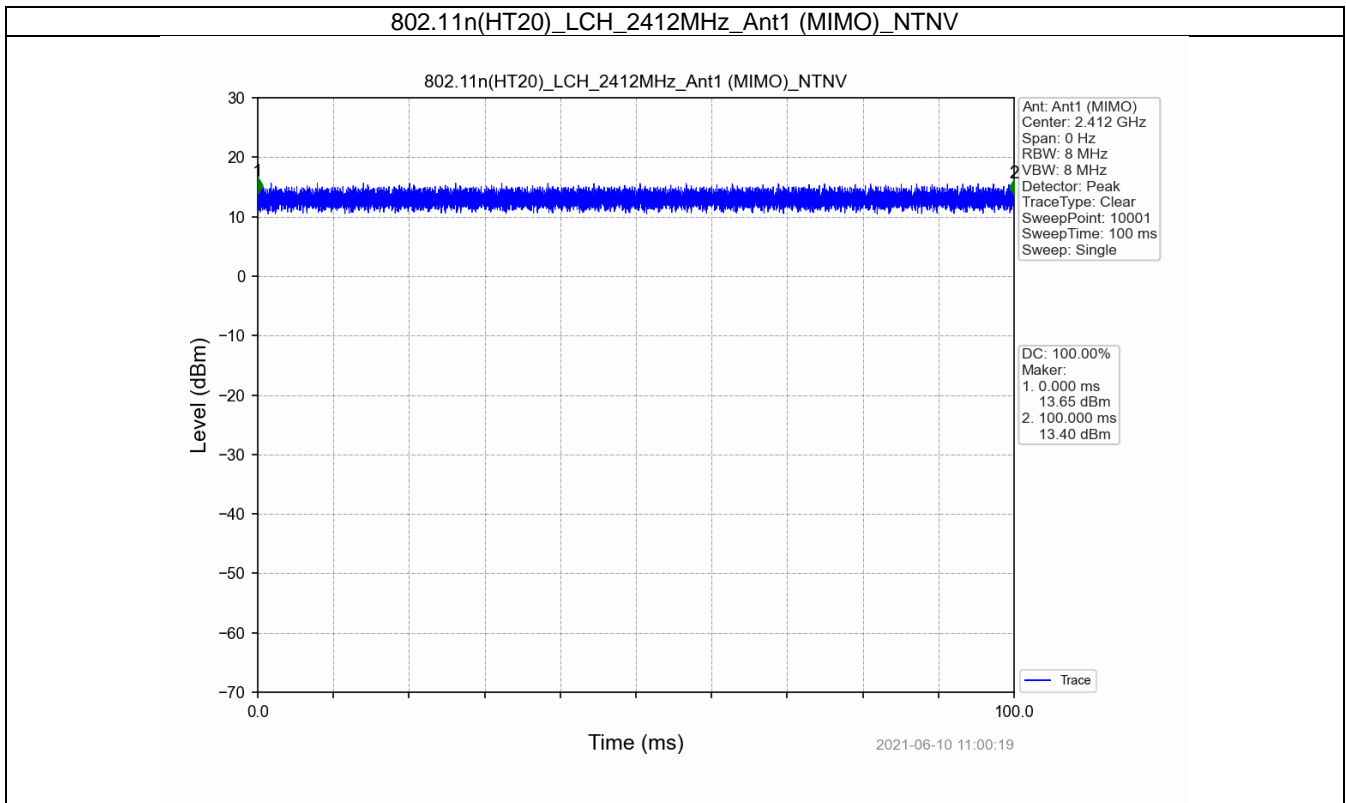
Note1: Only for Report Use

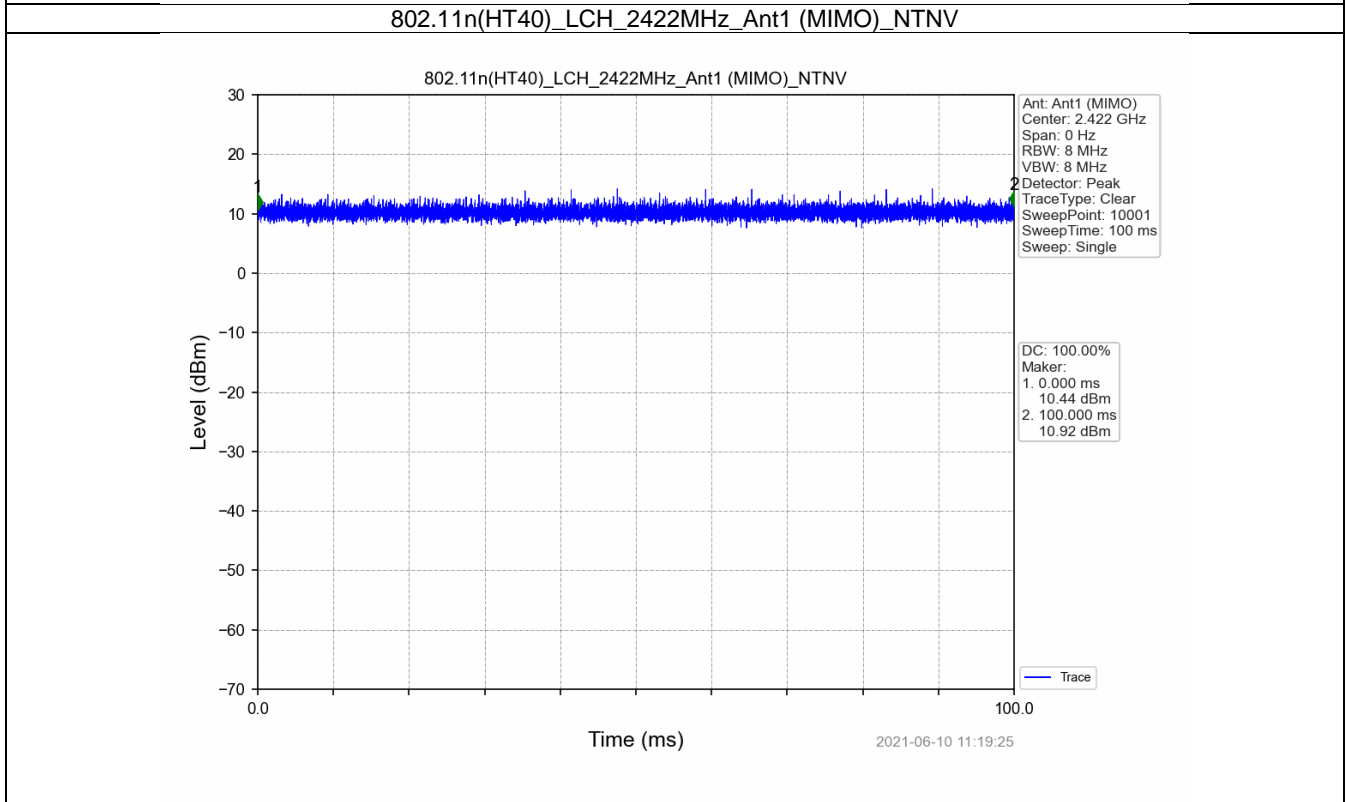
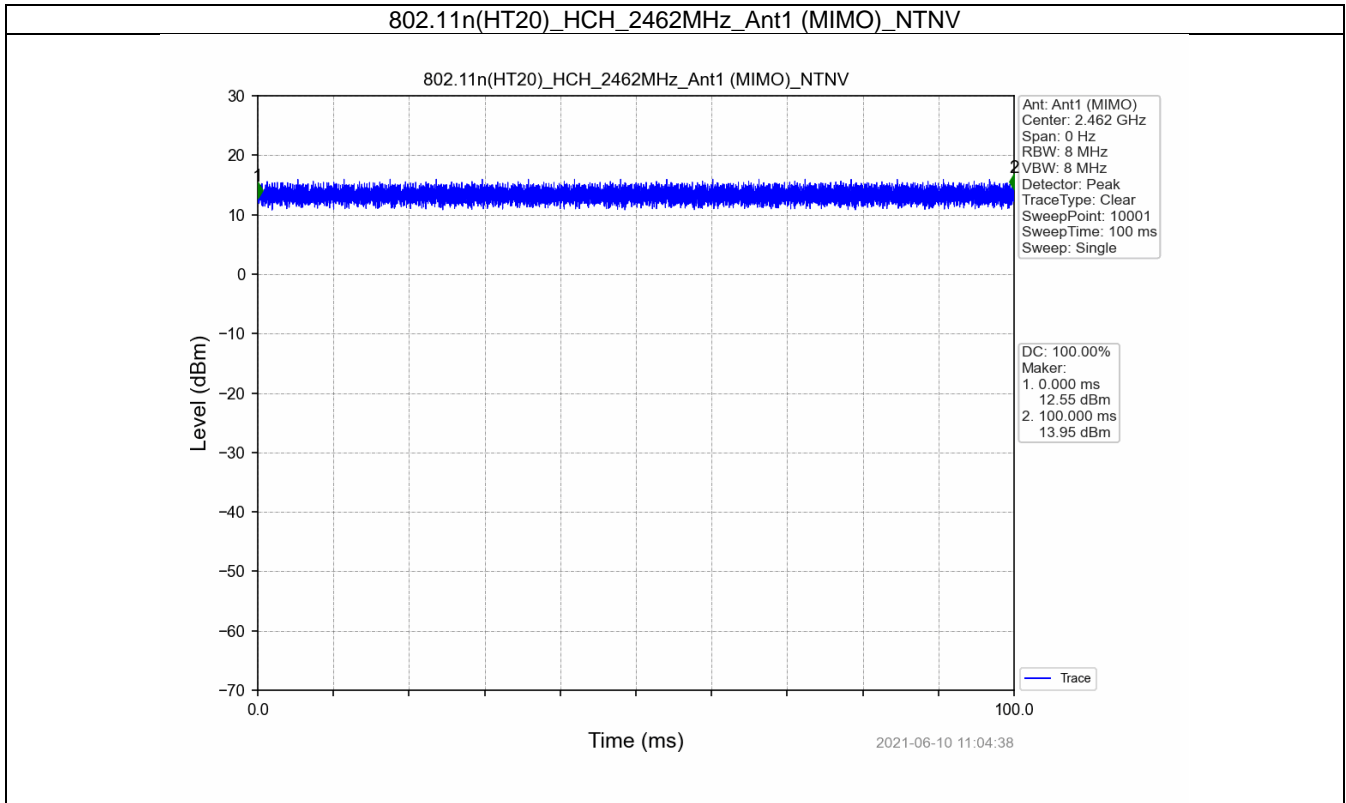
1.1.2 Test Graph

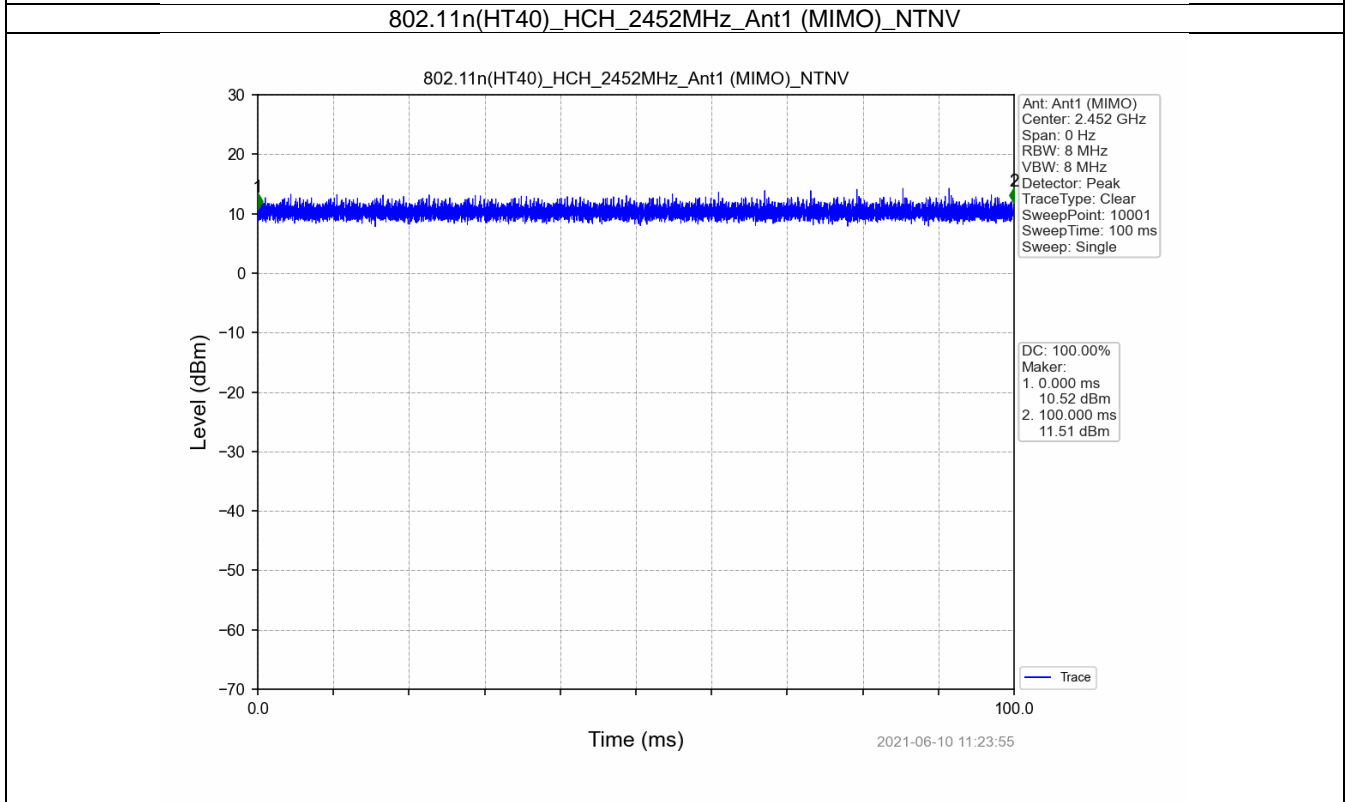
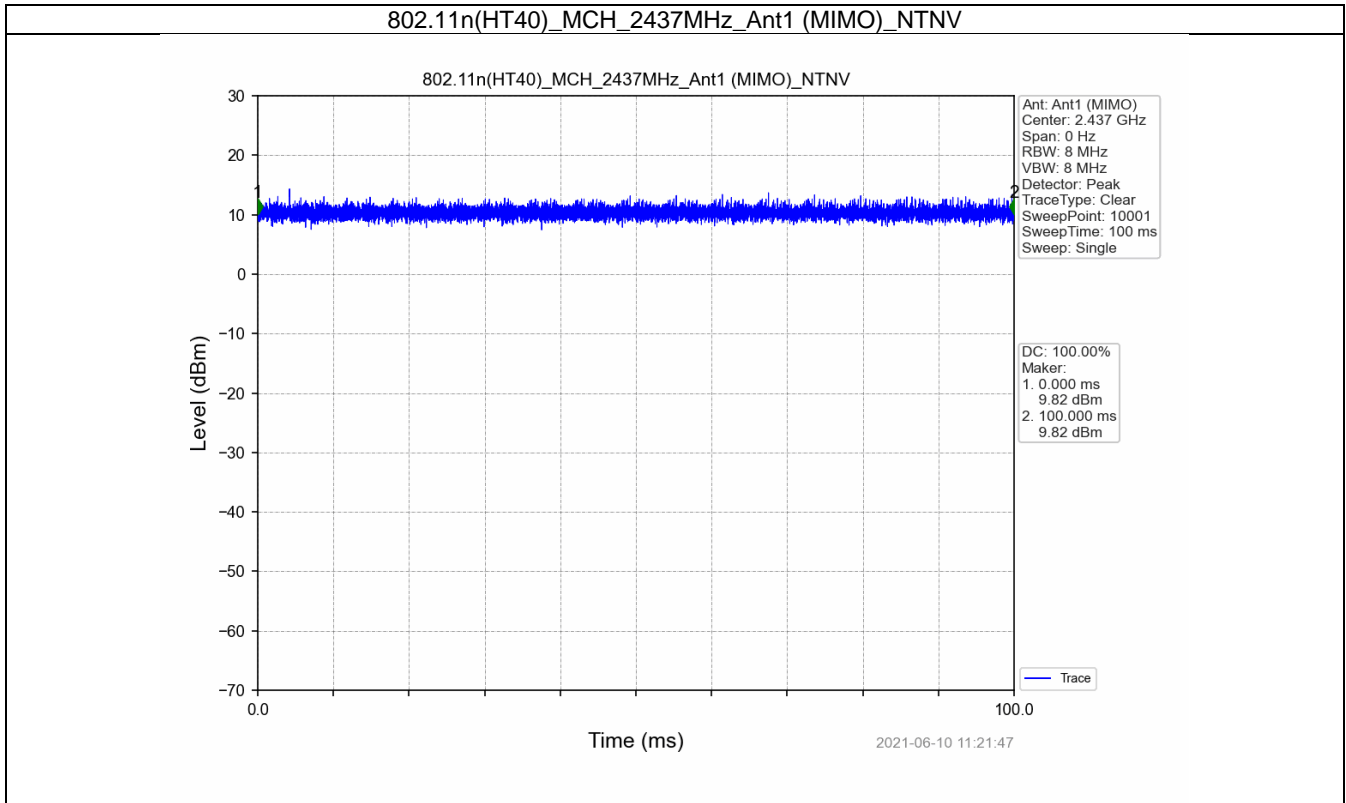












1.2 Ant2

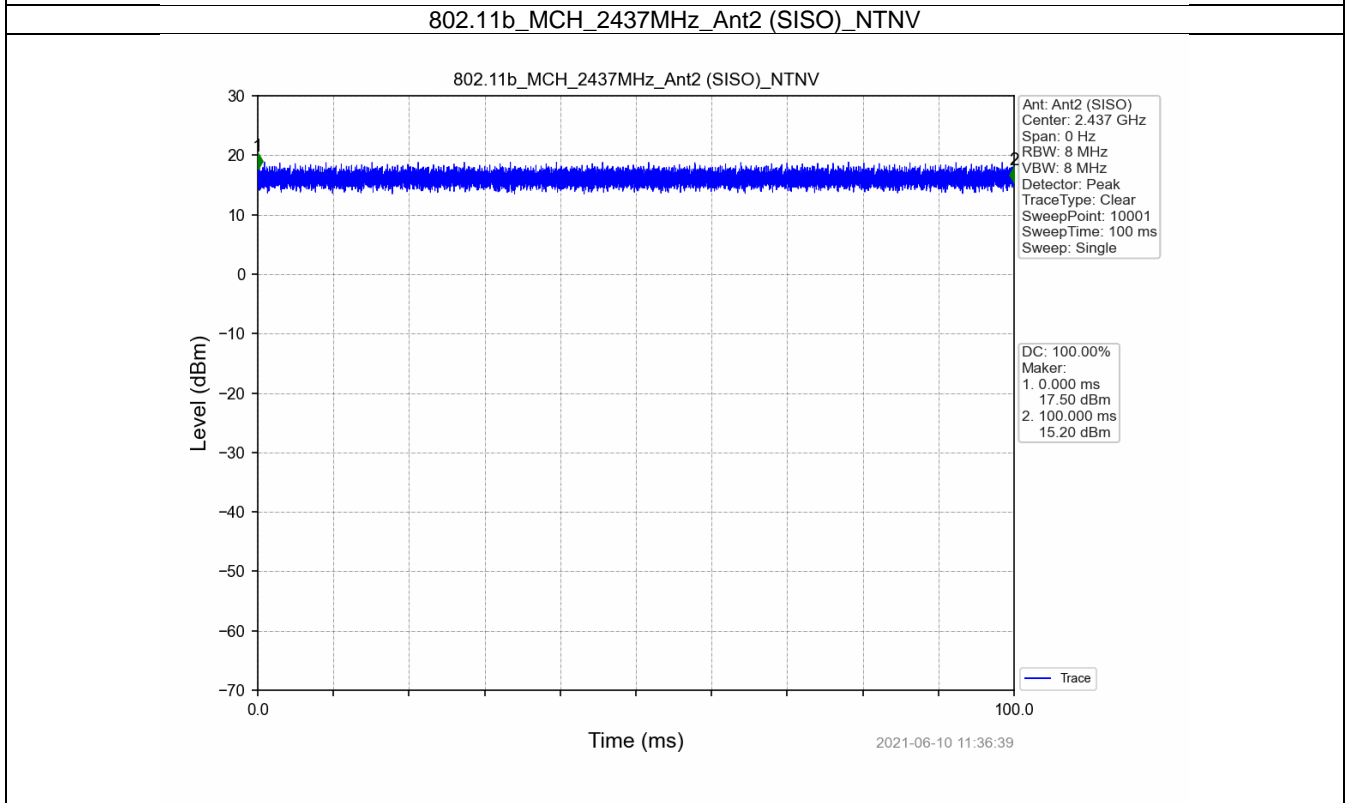
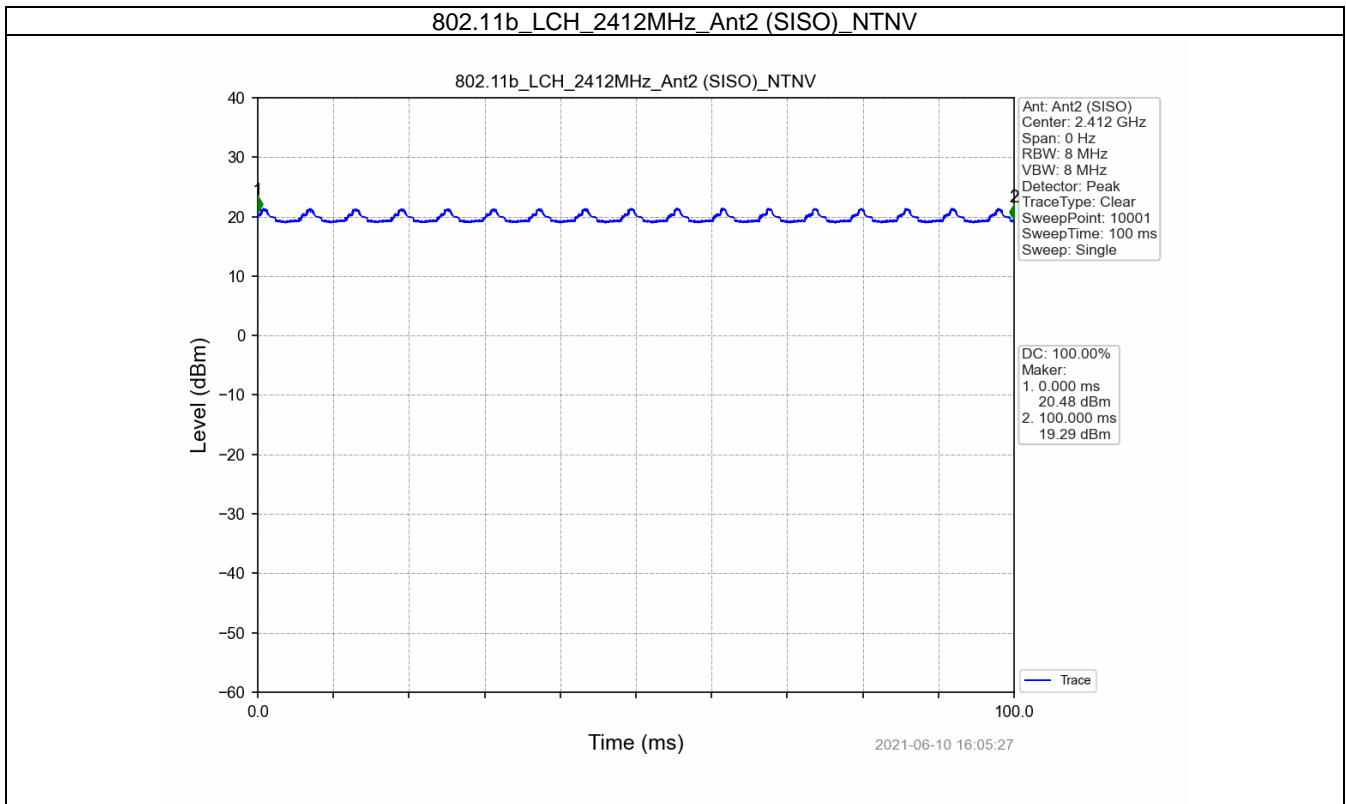
1.2.1 Test Result

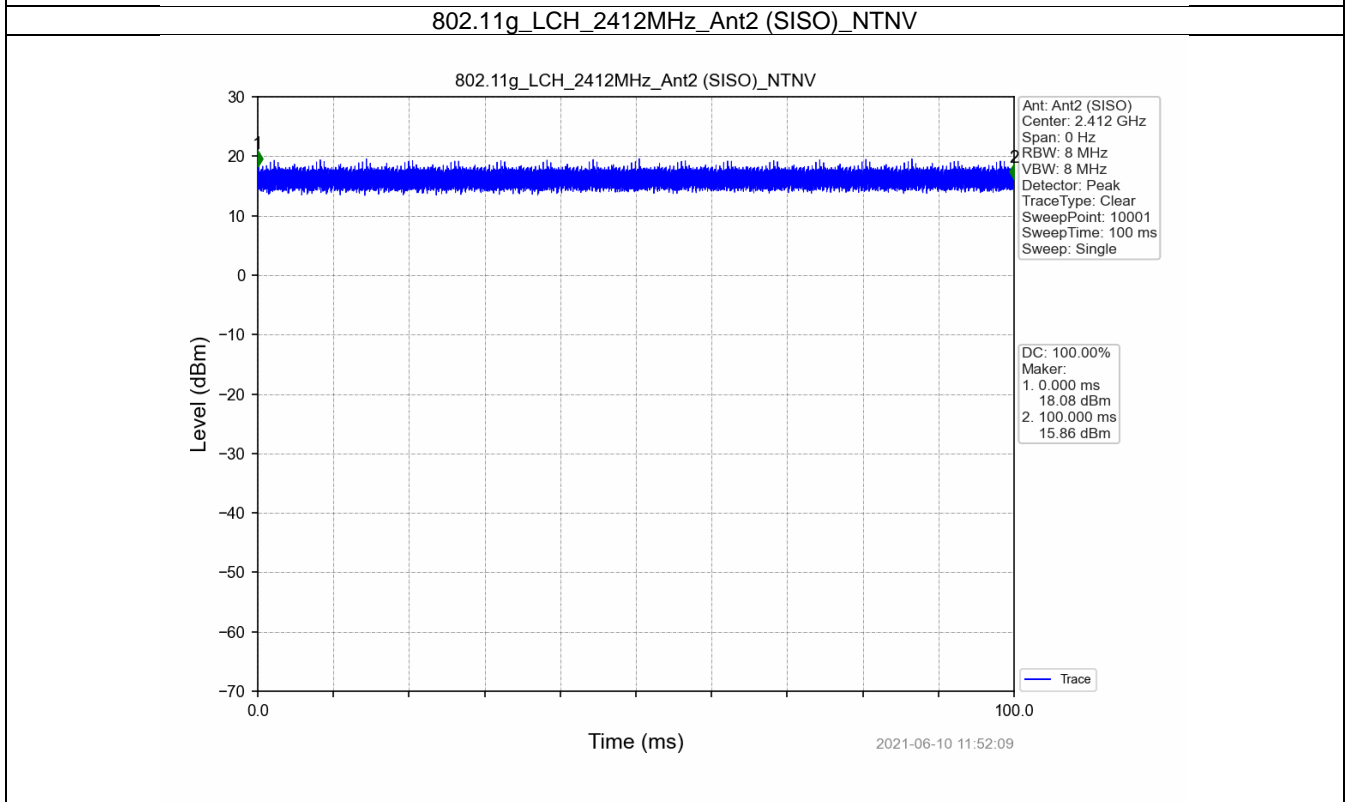
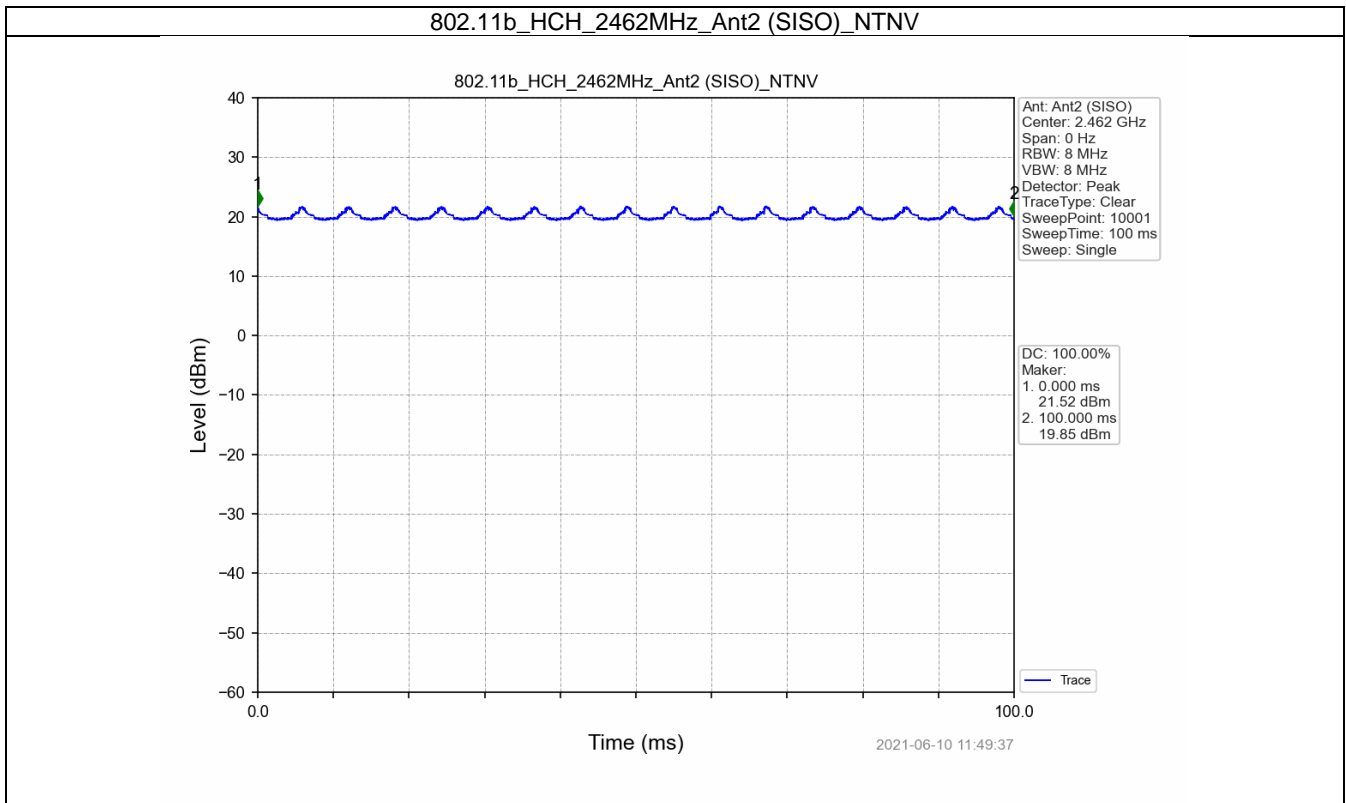
Ant2									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11g	SISO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11n (HT20)	MIMO	2412	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2462	/	/	100.00	100.00	100.00	0.00	0.00
802.11n (HT40)	MIMO	2422	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2452	/	/	100.00	100.00	100.00	0.00	0.00

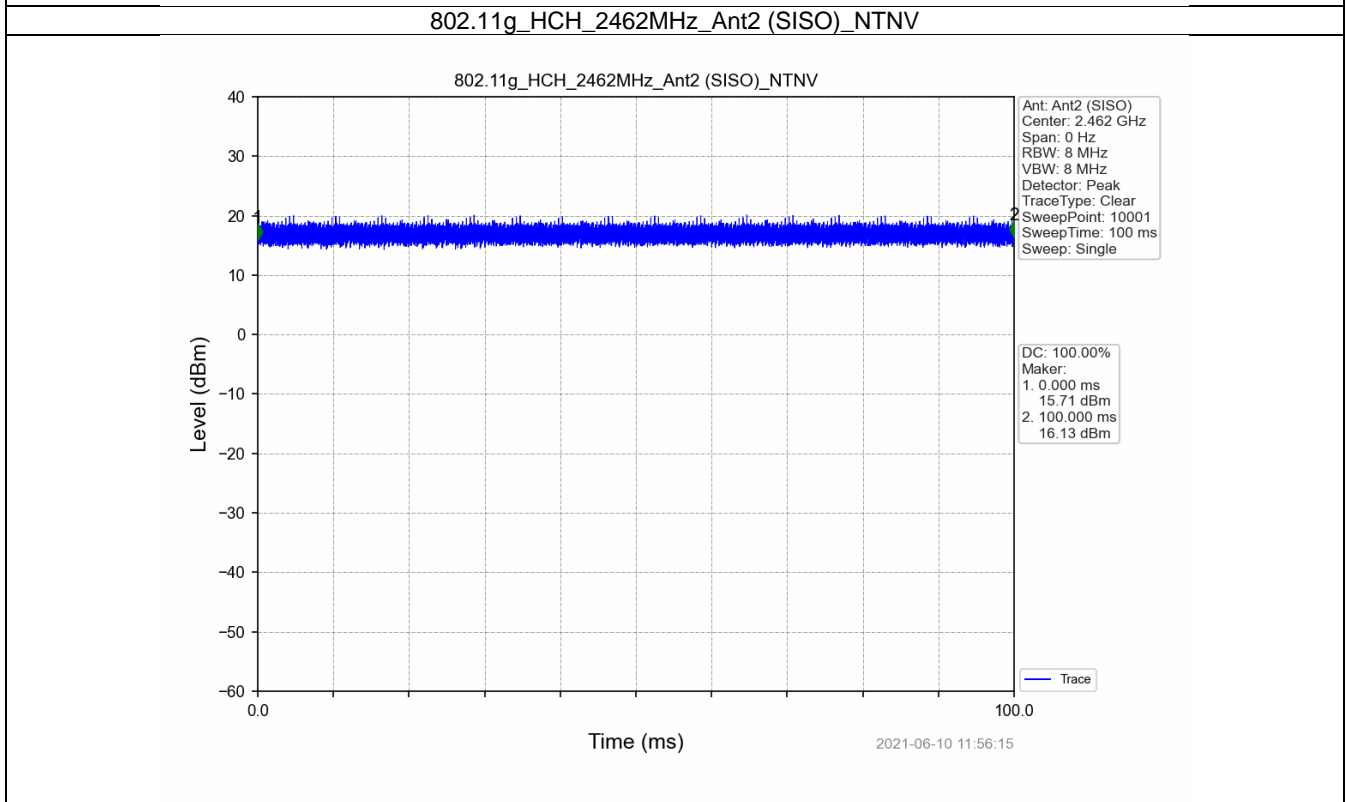
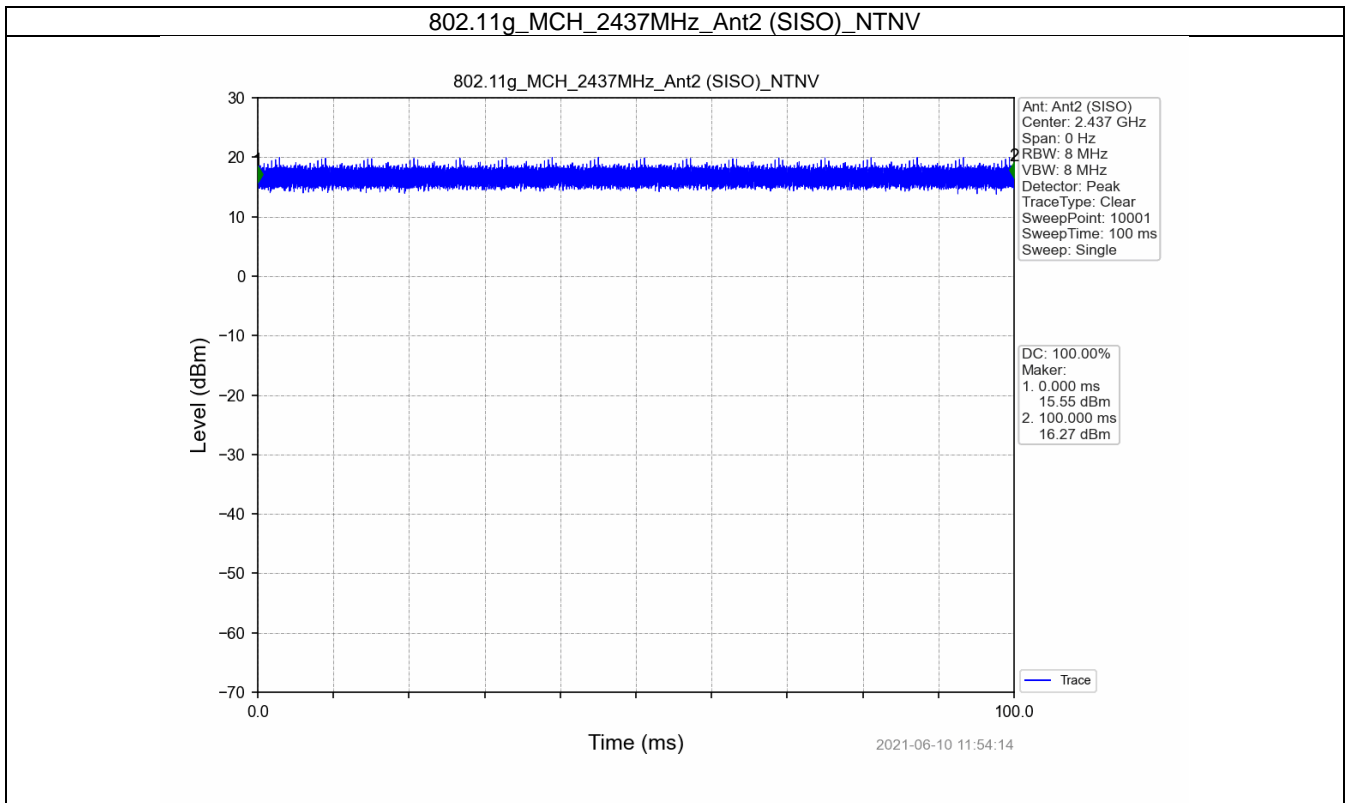
Note1: Only for Report Use

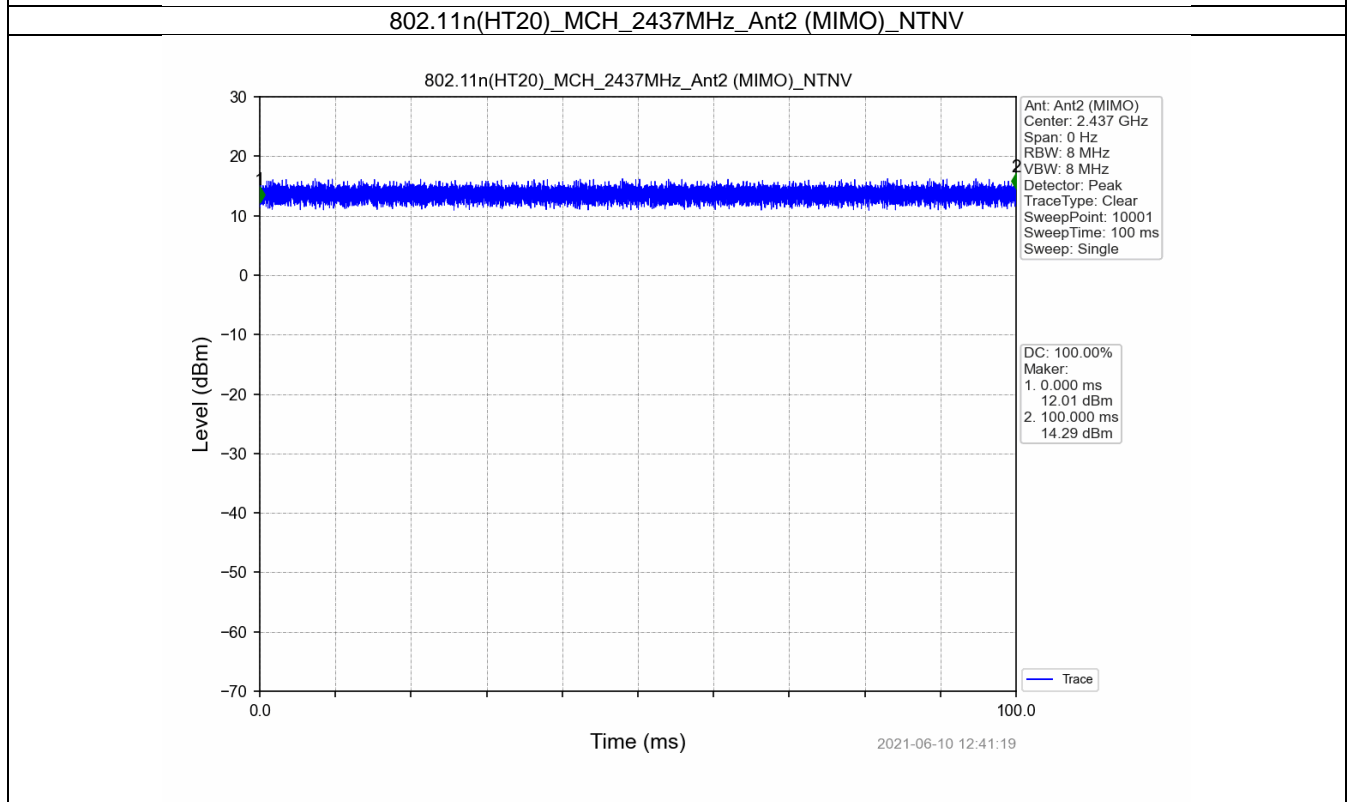
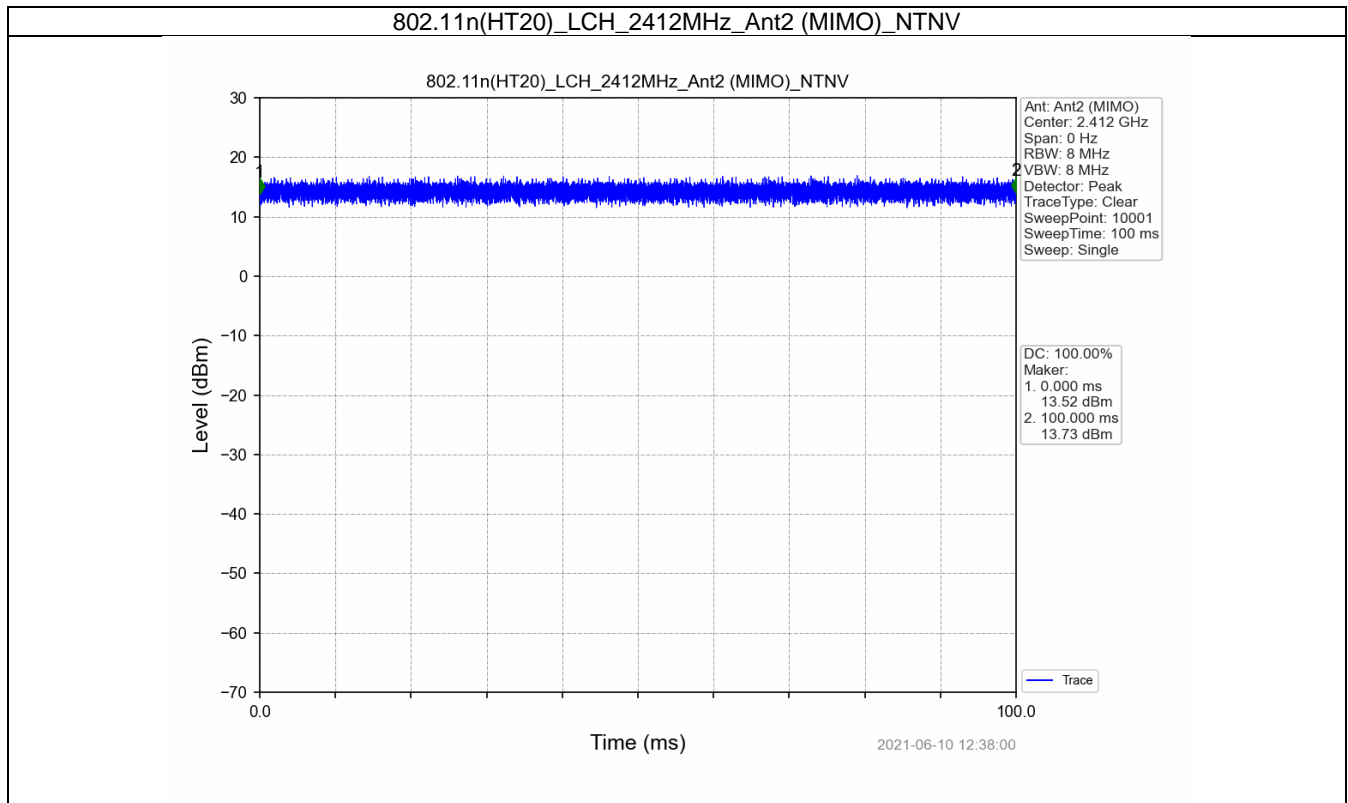


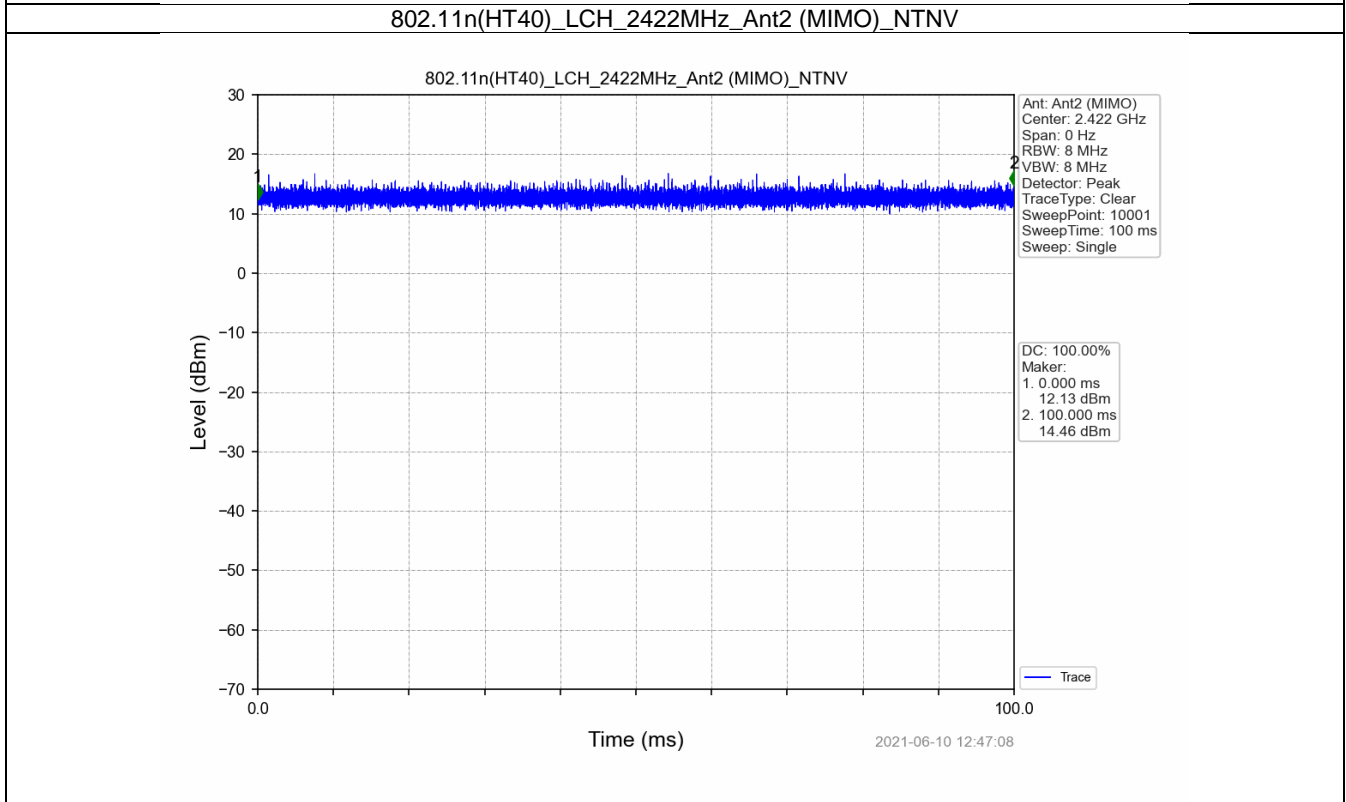
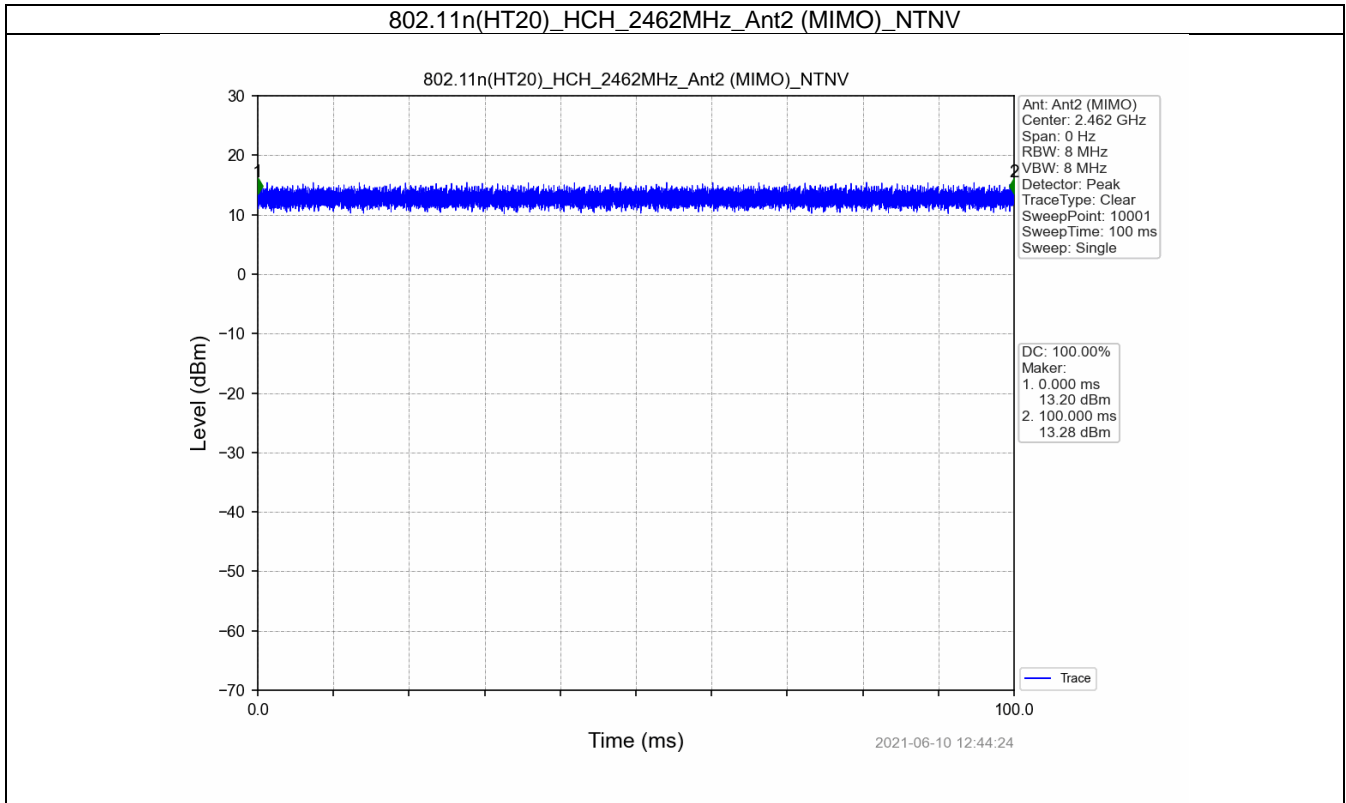
1.2.2 Test Graph

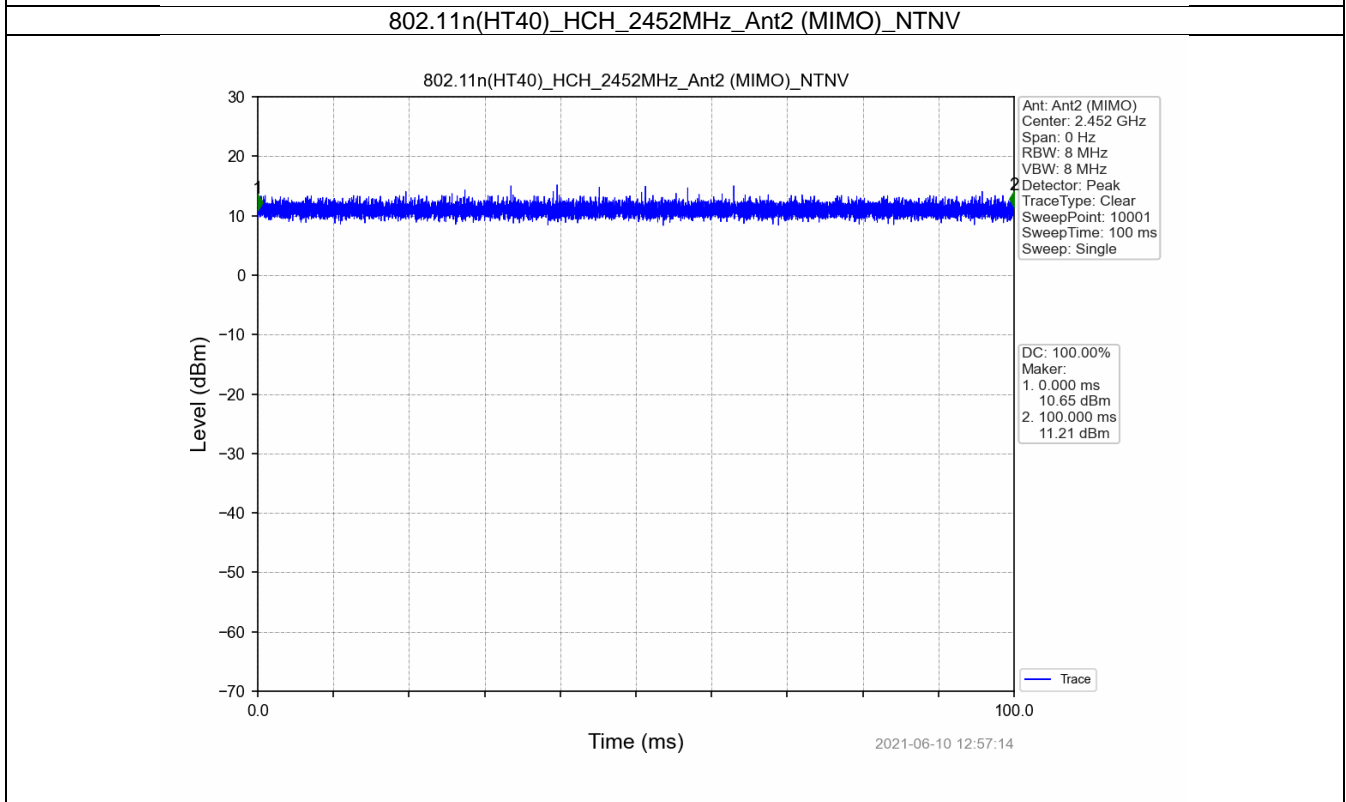
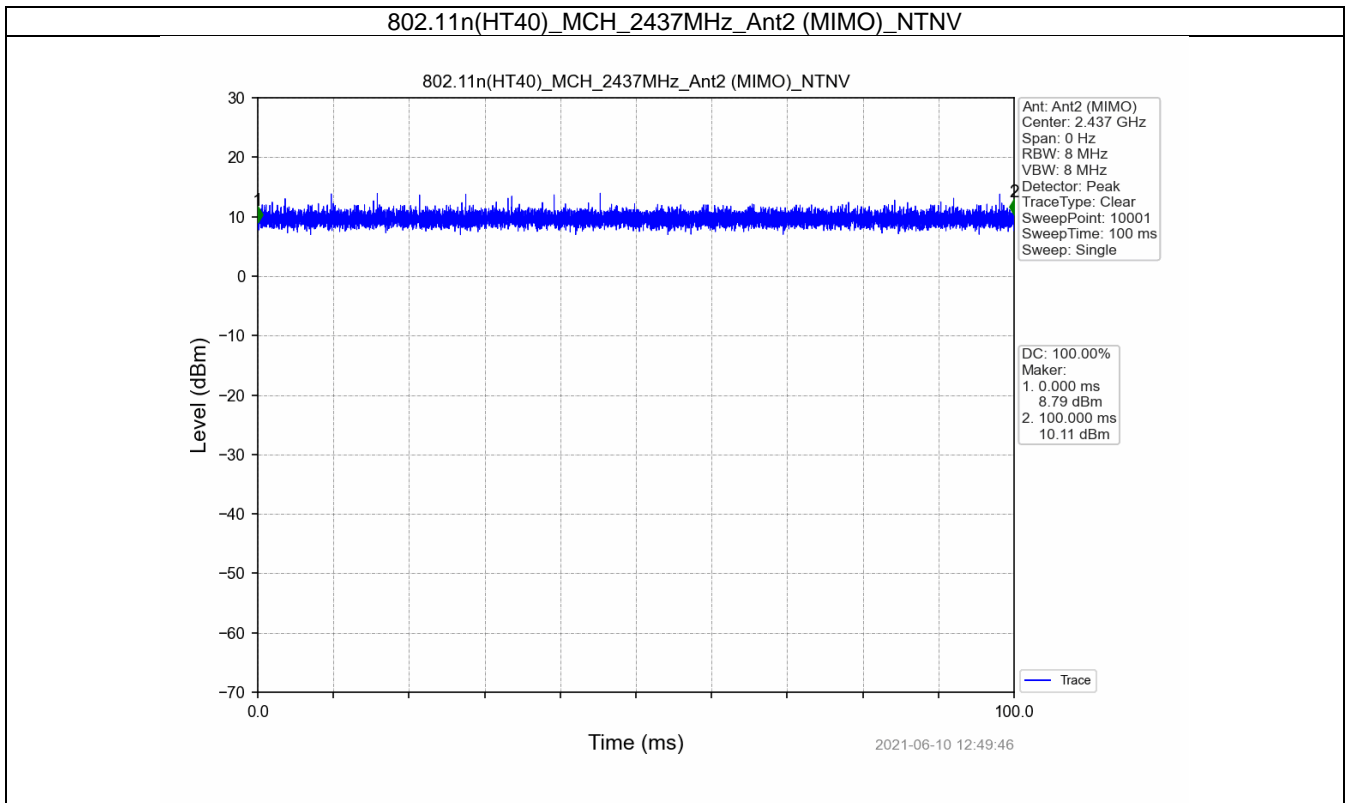












## 2. Bandwidth

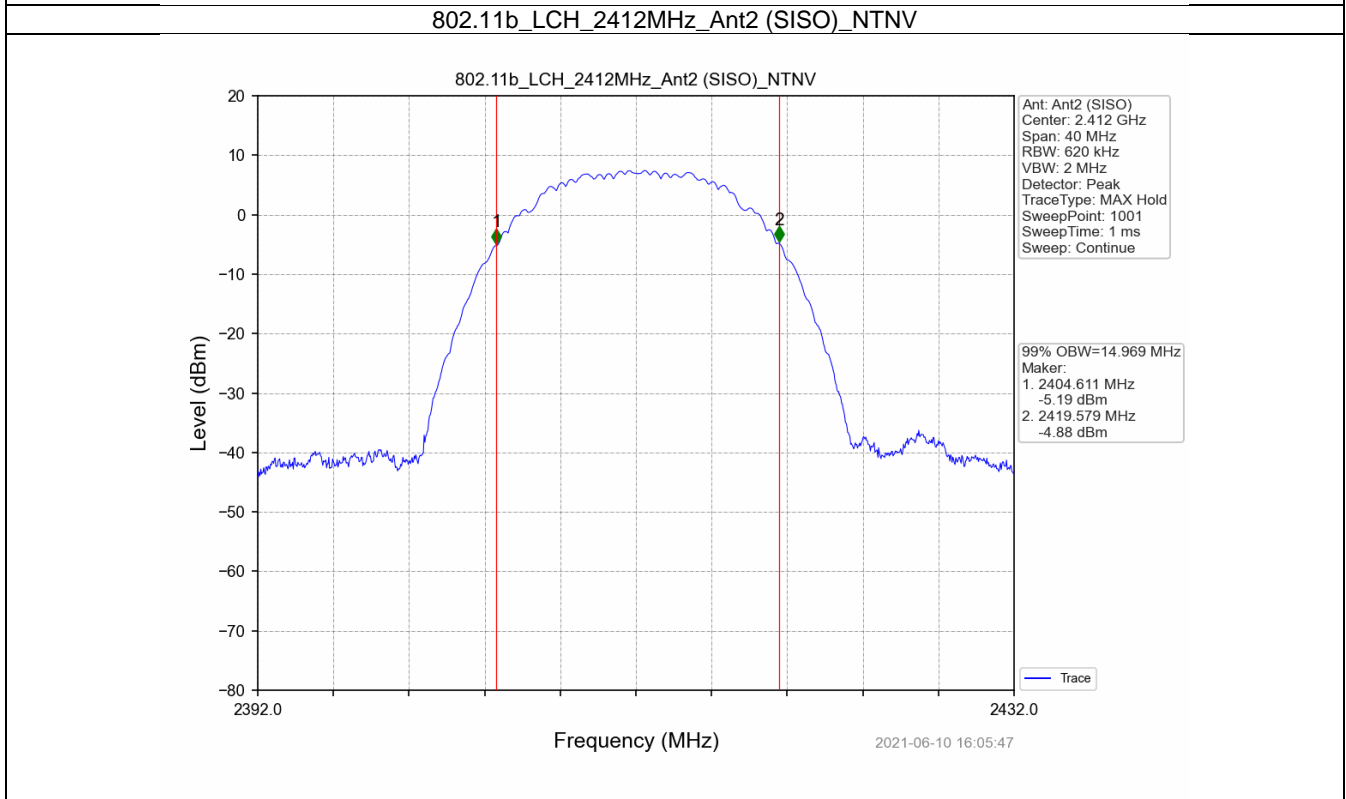
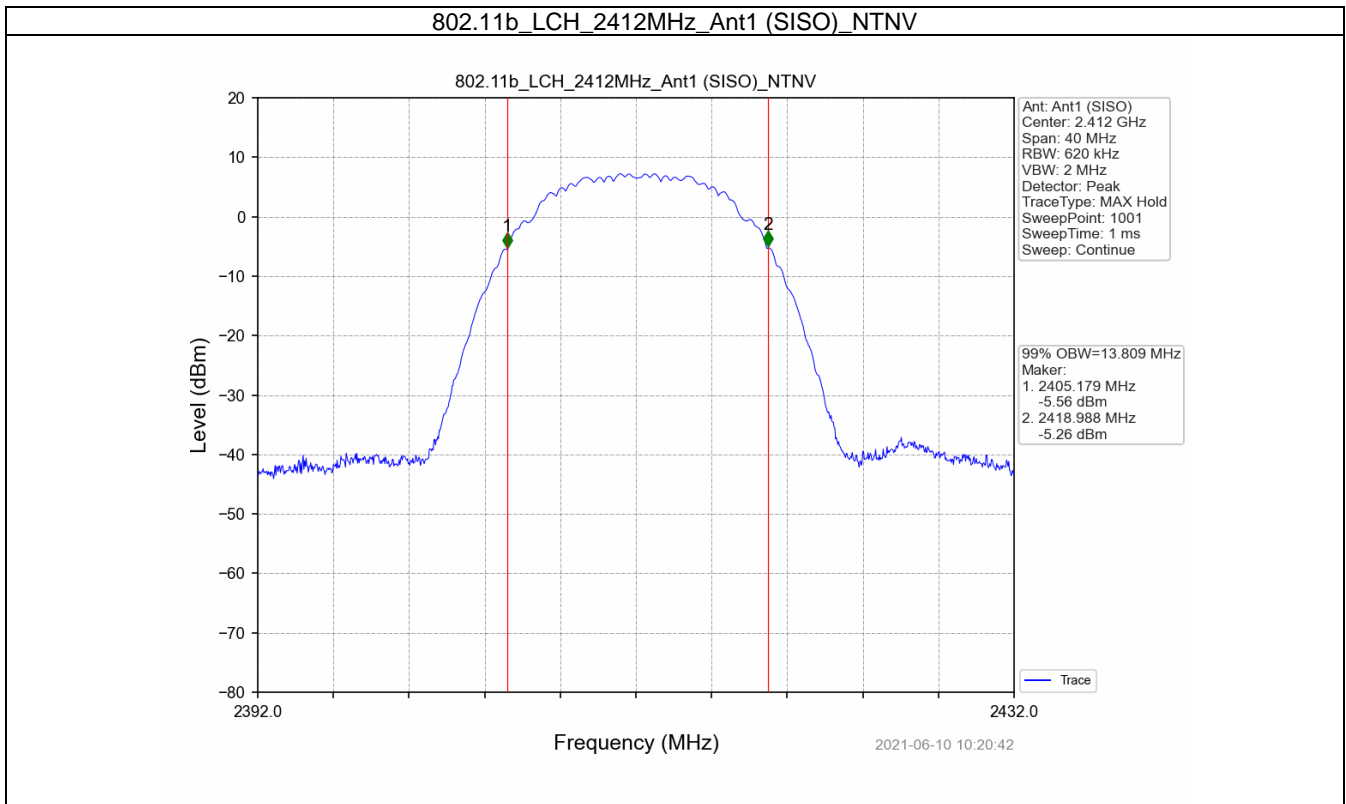
### 2.1 OBW

#### 2.1.1 Test Result

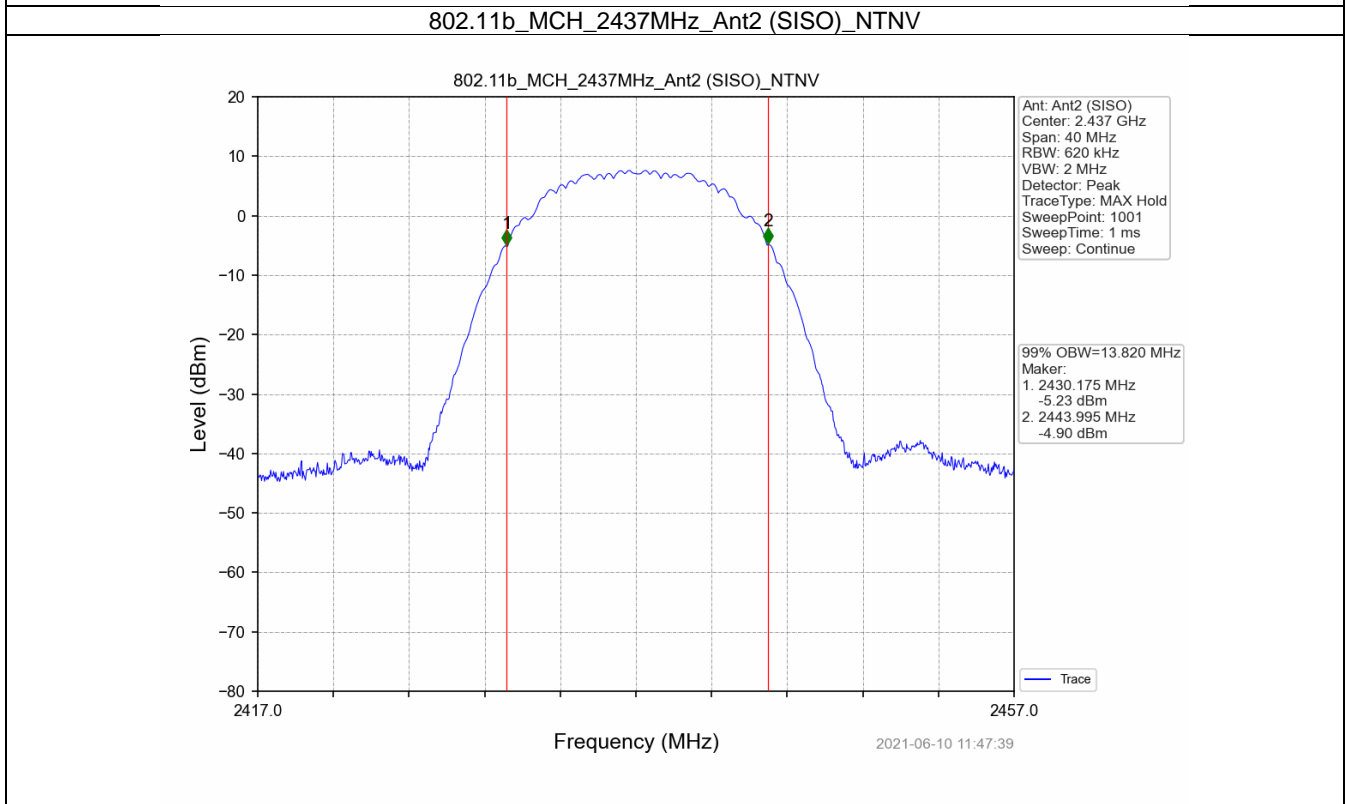
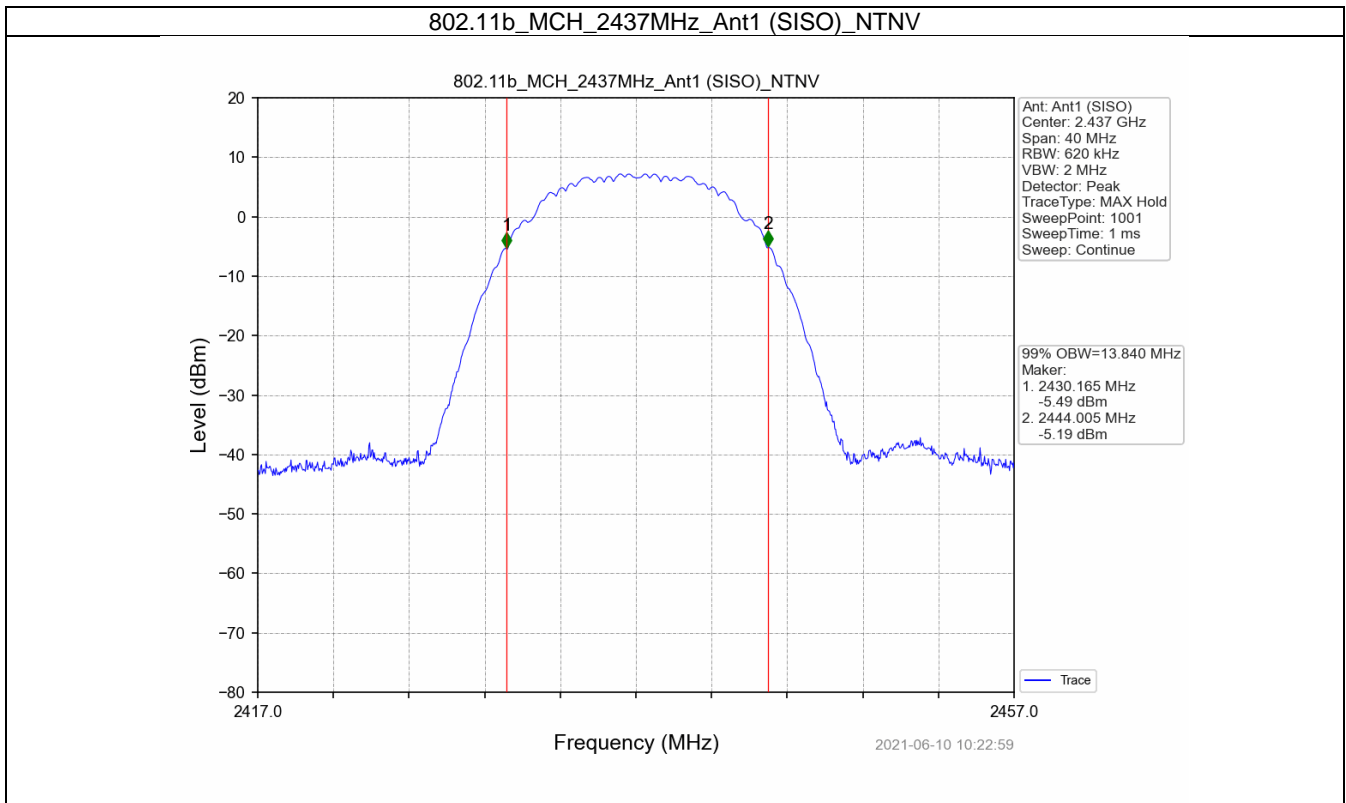
Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
802.11b	SISO	2412	/	/	13.809	14.969	/	Note1
		2437	/	/	13.840	13.820	/	Note1
		2462	/	/	13.812	13.846	/	Note1
802.11g	SISO	2412	/	/	16.788	16.785	/	Note1
		2437	/	/	16.806	16.785	/	Note1
		2462	/	/	16.796	16.776	/	Note1
802.11n (HT20)	MIMO	2412	/	/	17.770	17.747	/	Note1
		2437	/	/	17.772	17.741	/	Note1
		2462	/	/	17.776	17.751	/	Note1
802.11n (HT40)	MIMO	2422	/	/	34.317	34.308	/	Note1
		2437	/	/	34.331	34.316	/	Note1
		2452	/	/	34.331	34.325	/	Note1

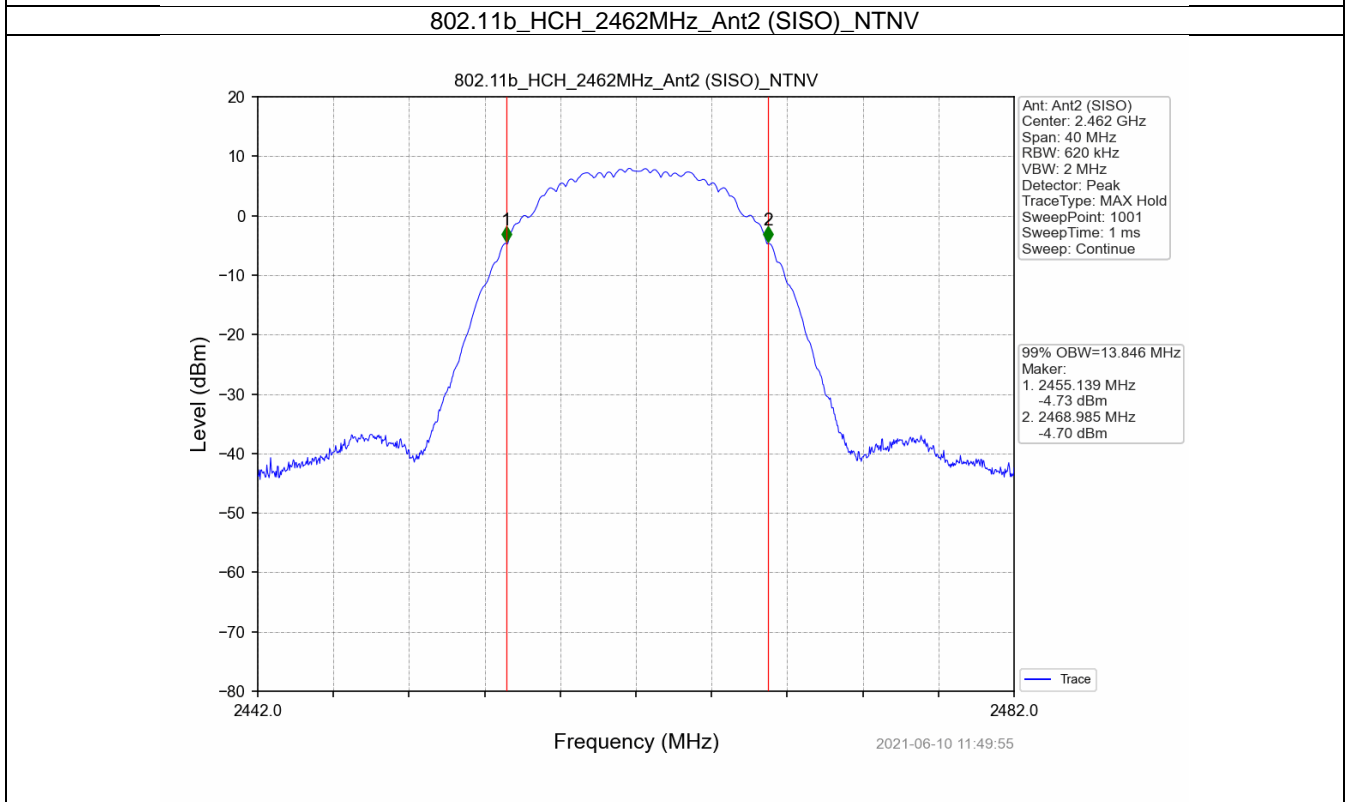
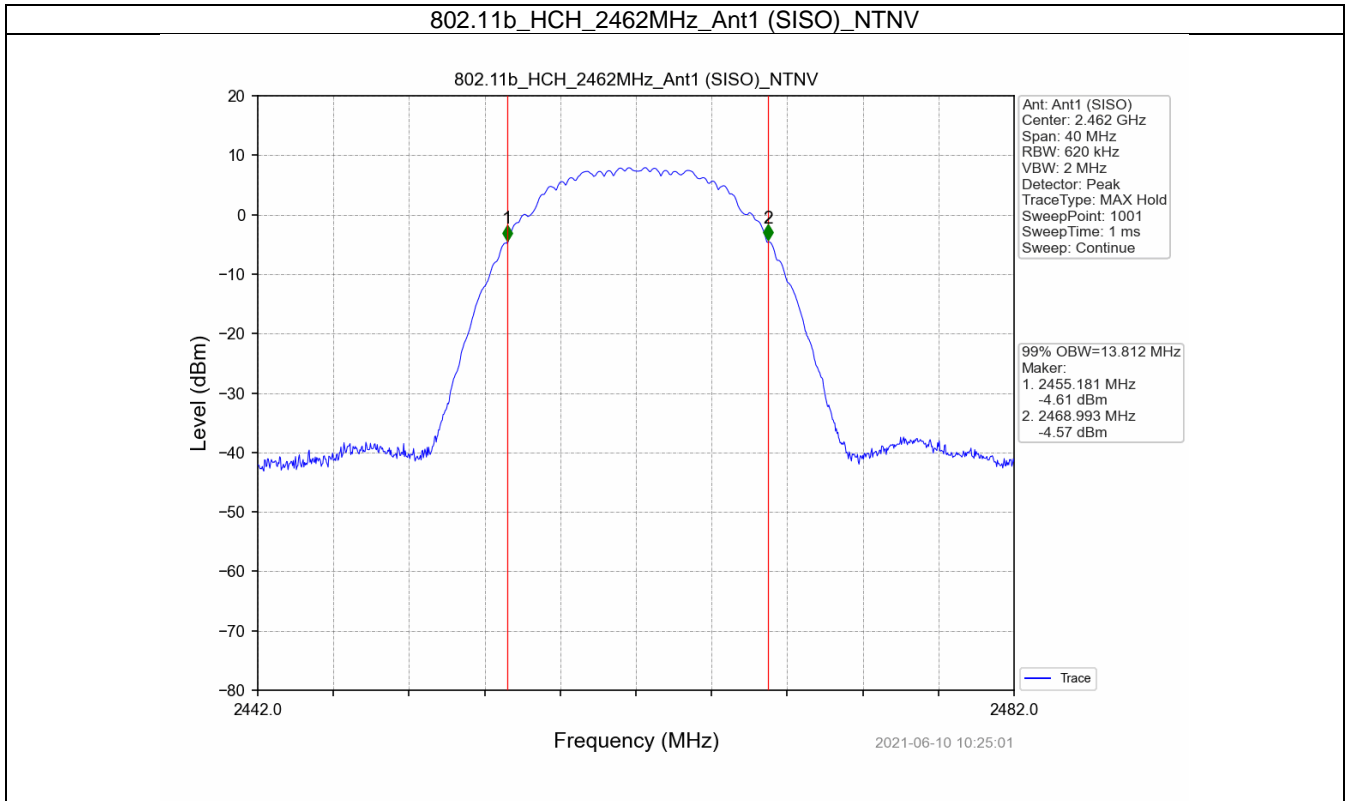
Note1: Only for Report Use

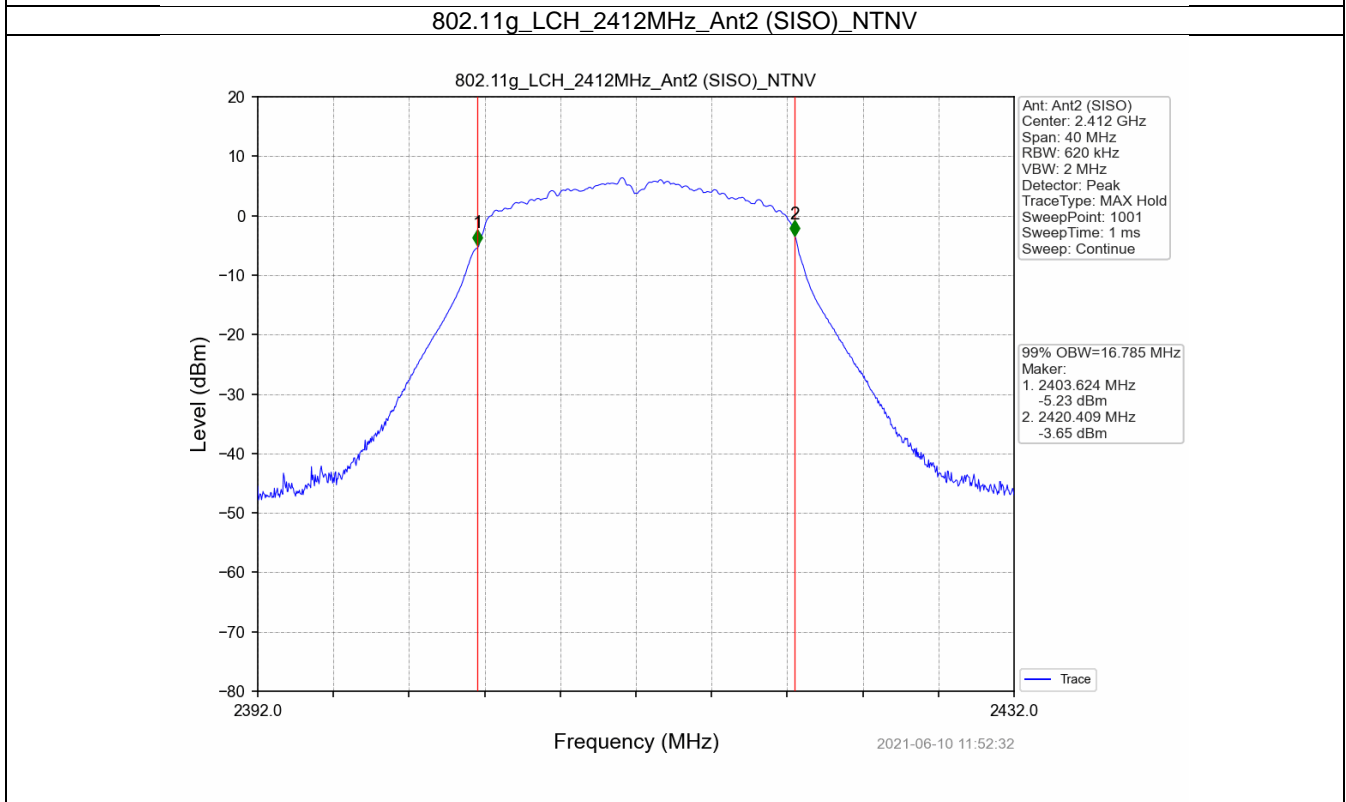
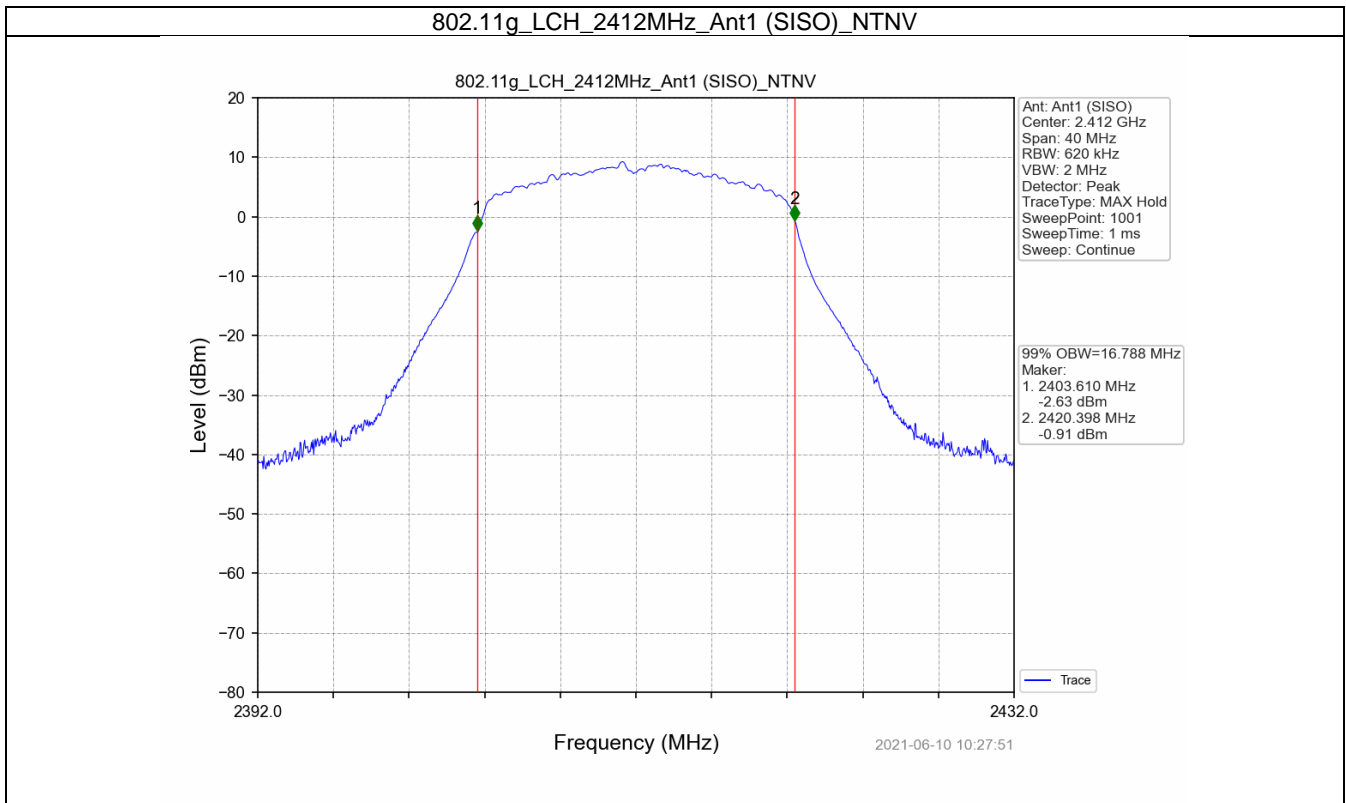
2.1.2 Test Graph

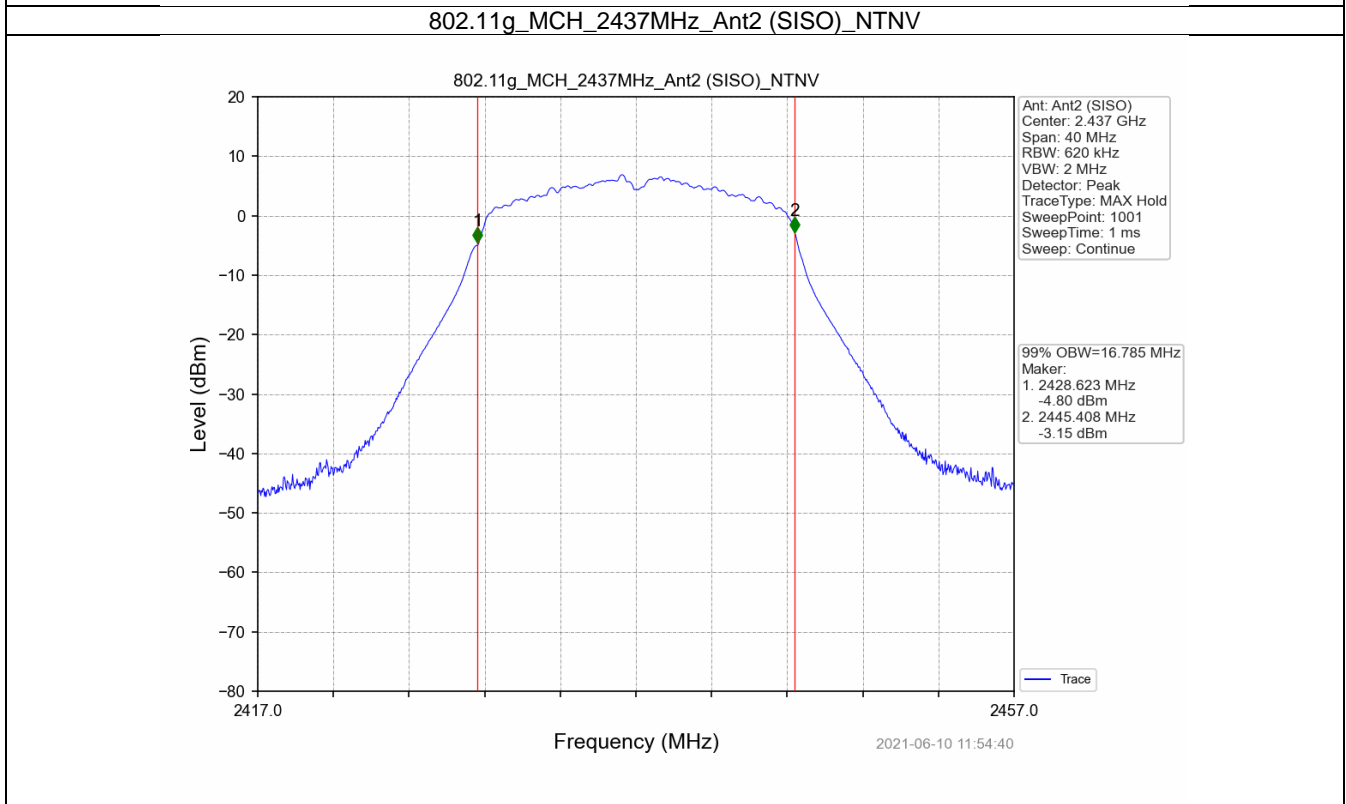
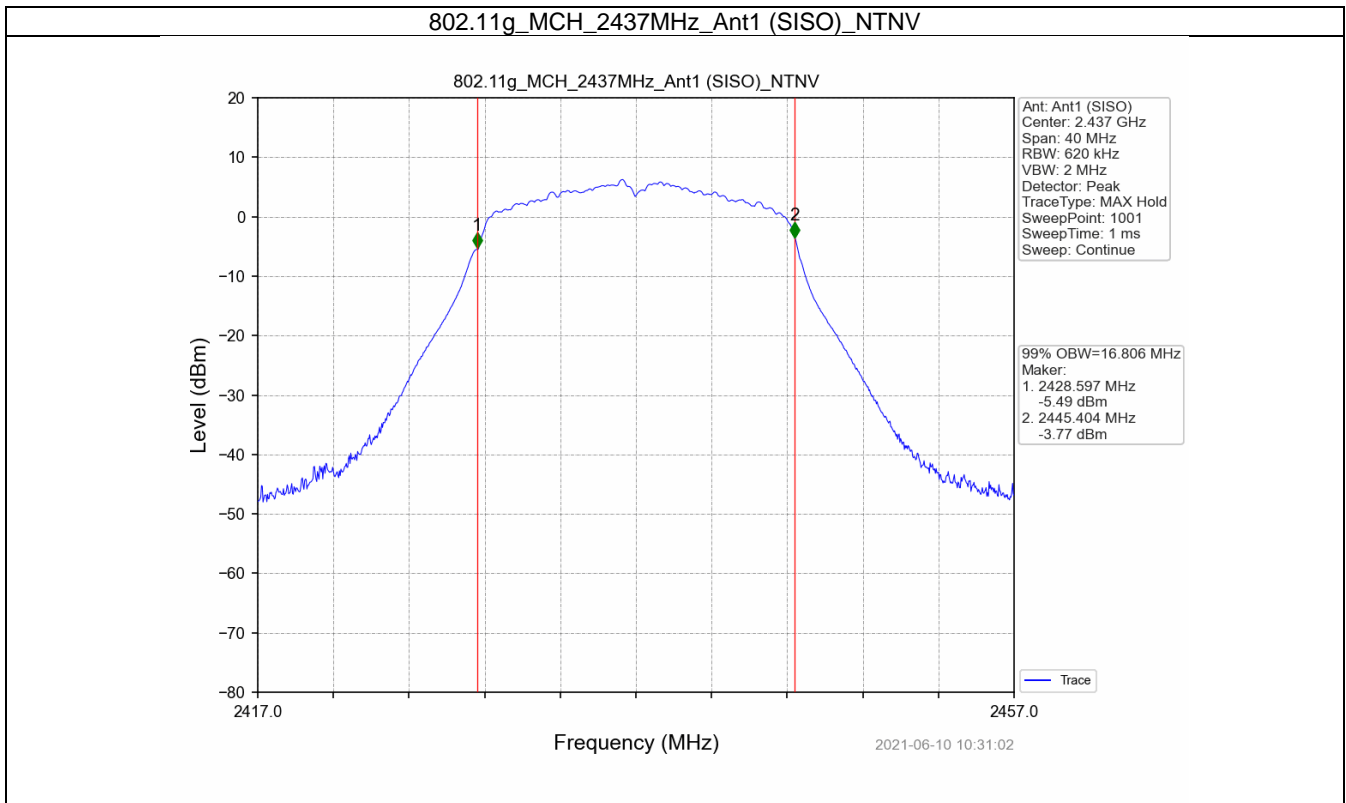


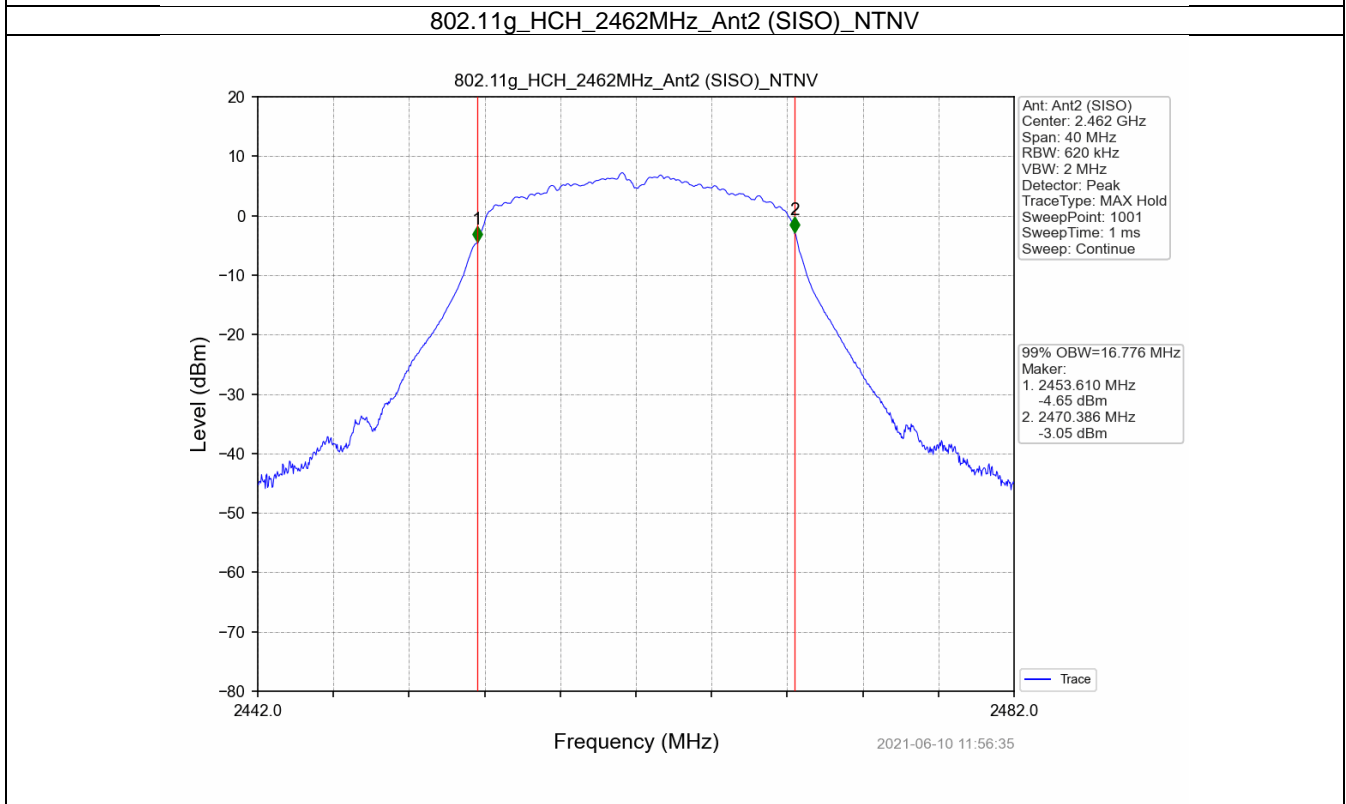
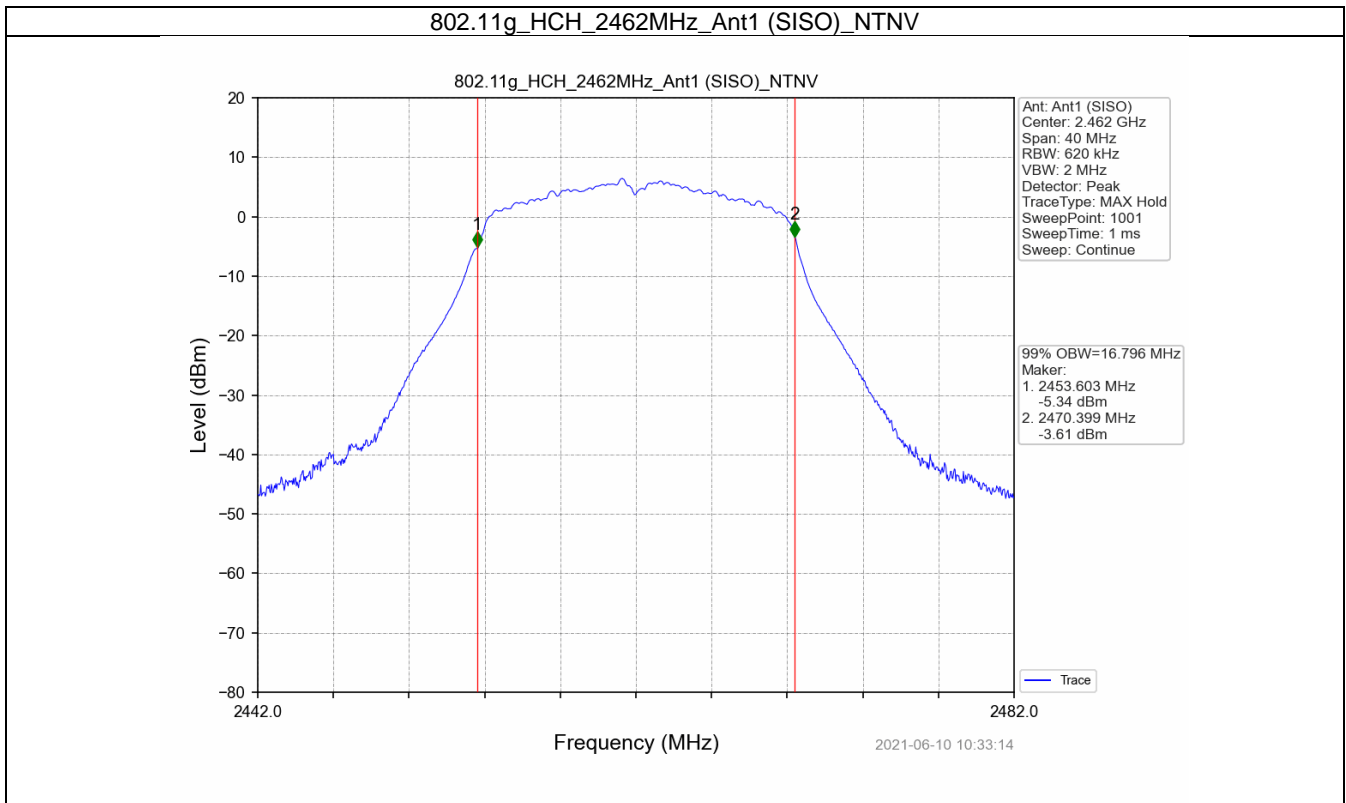


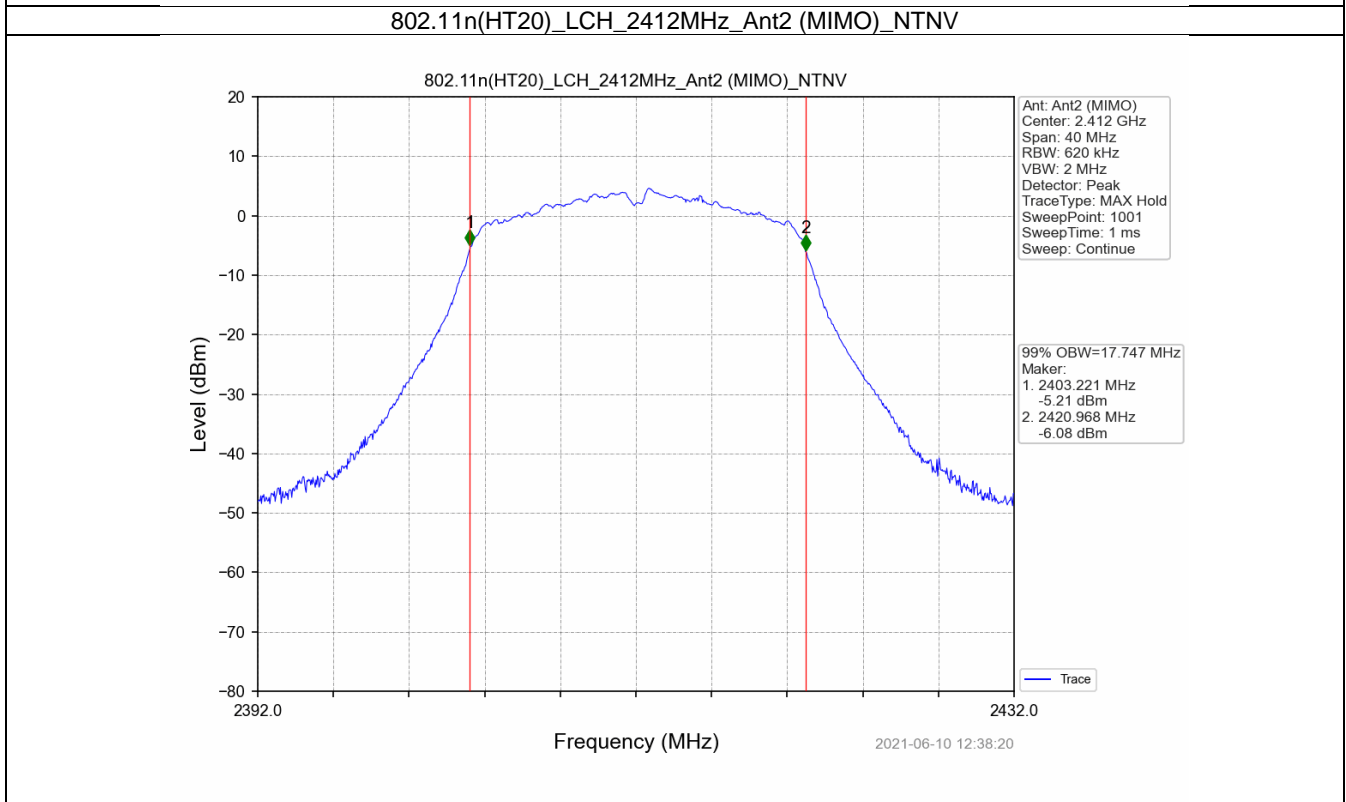
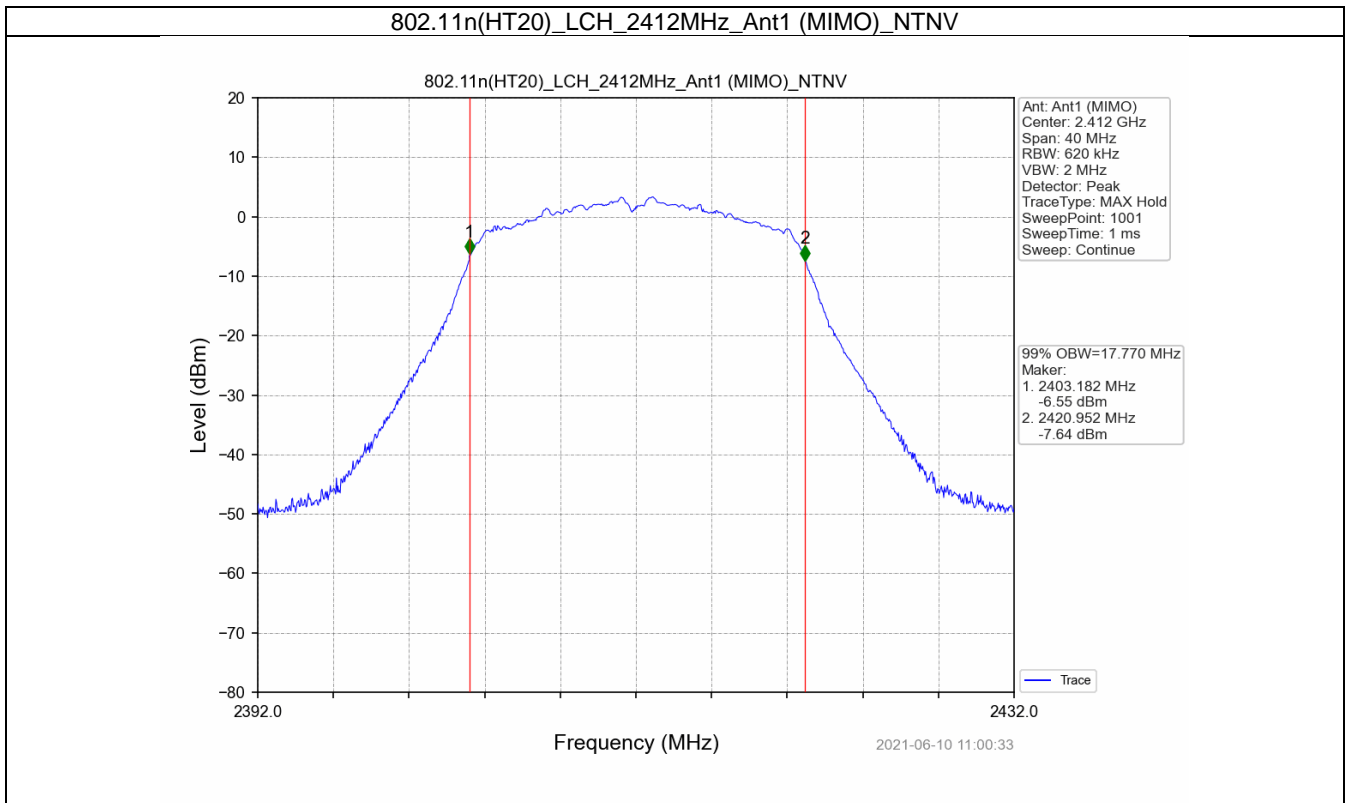


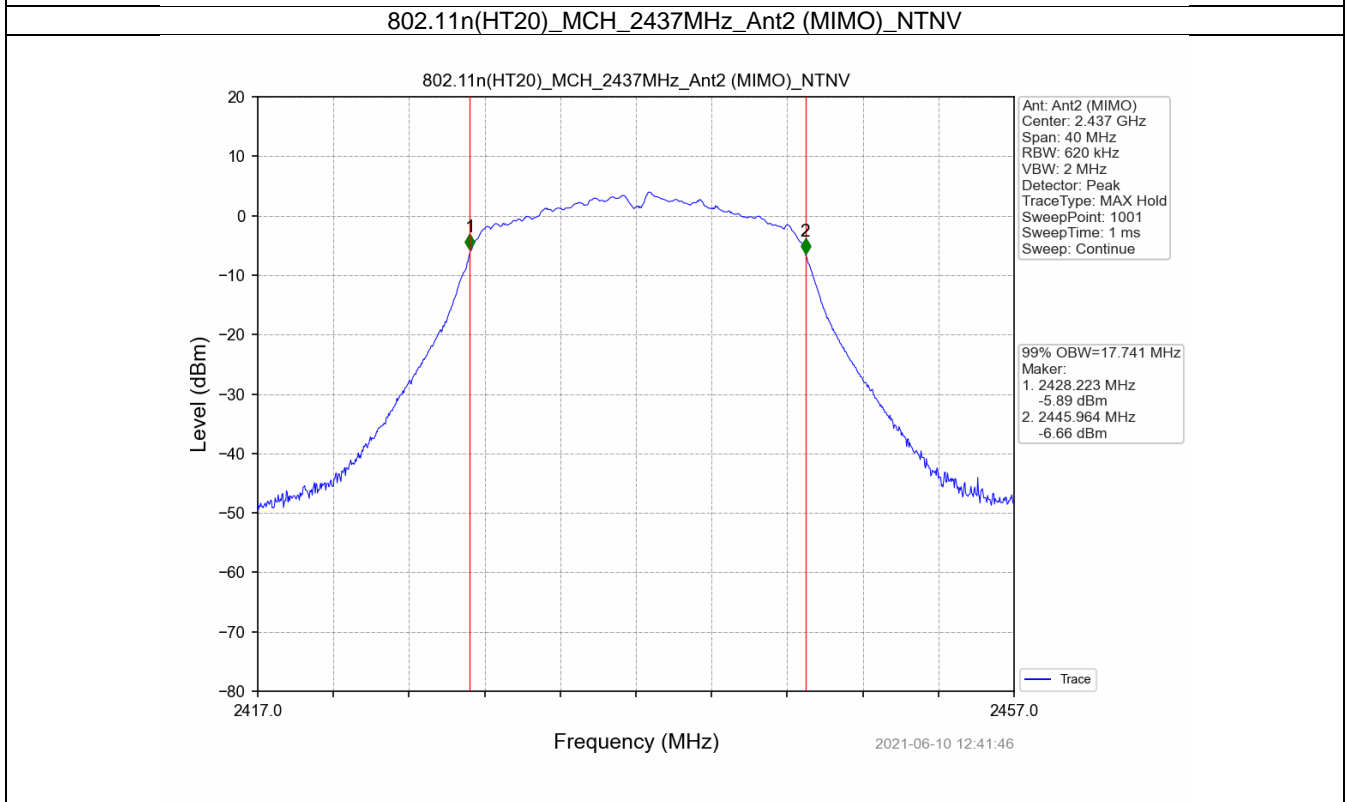
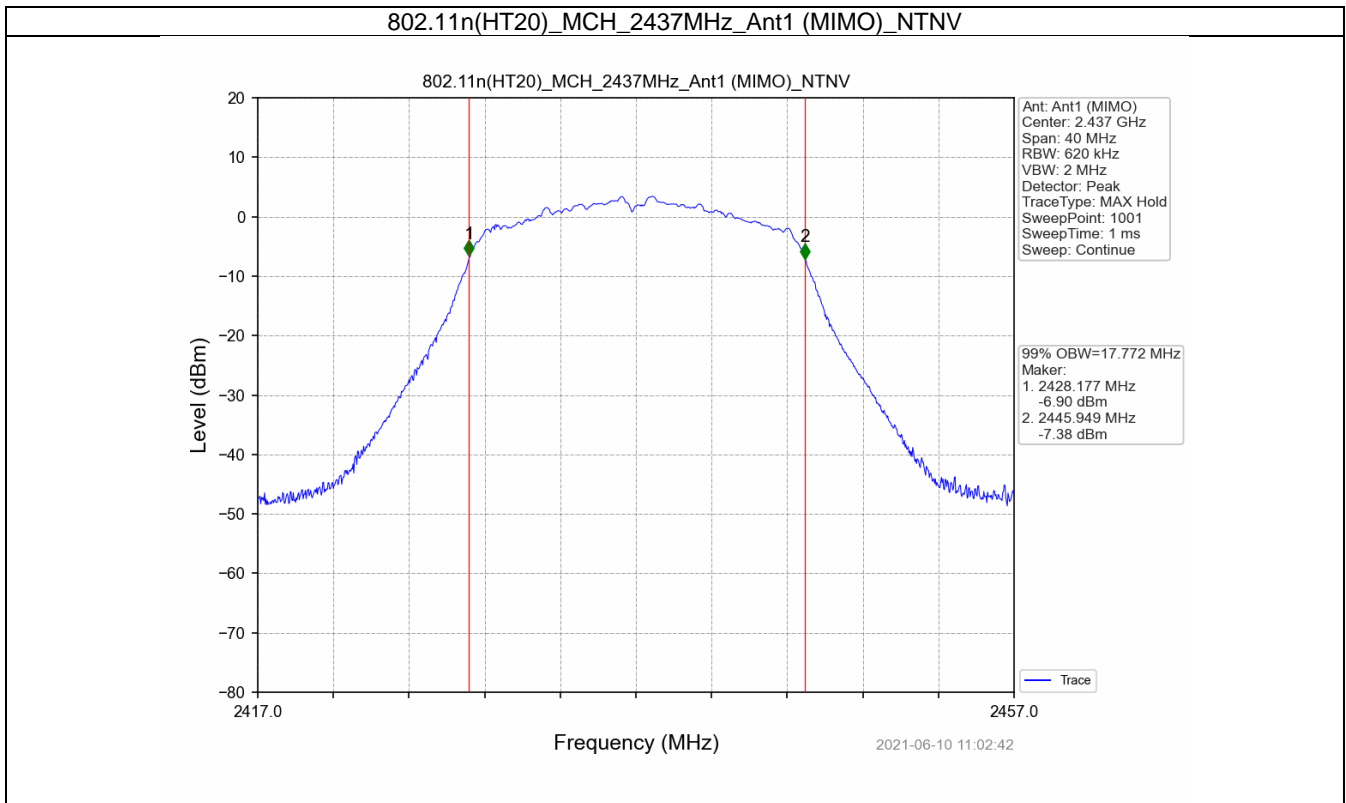


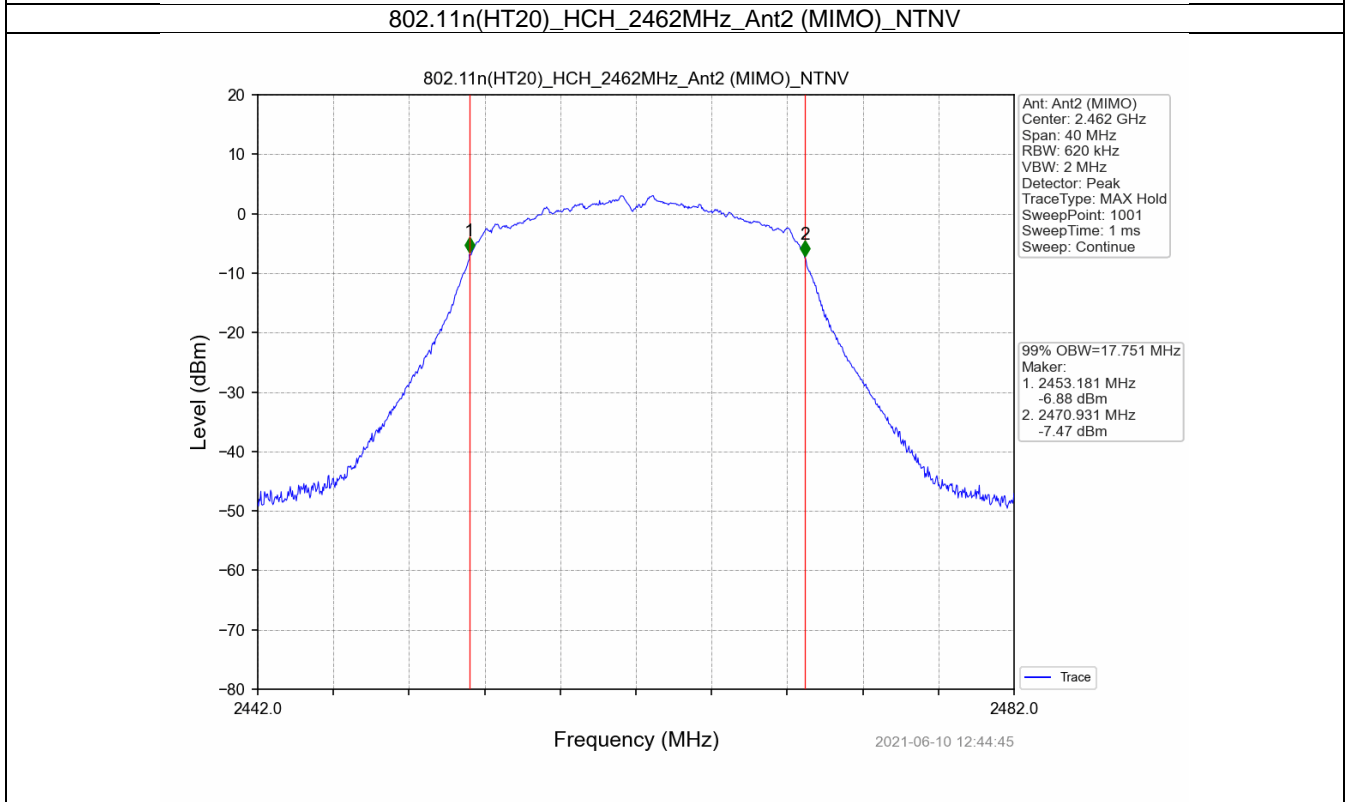
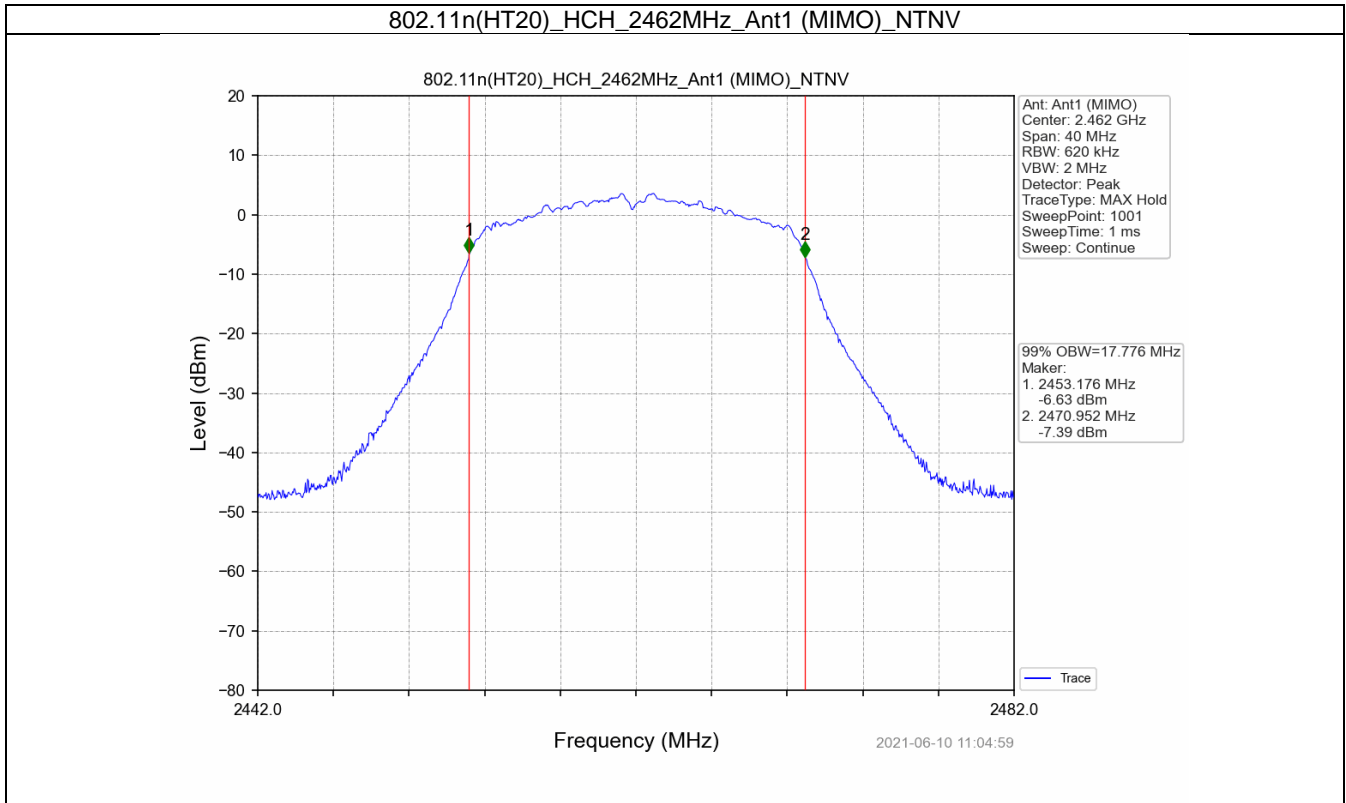




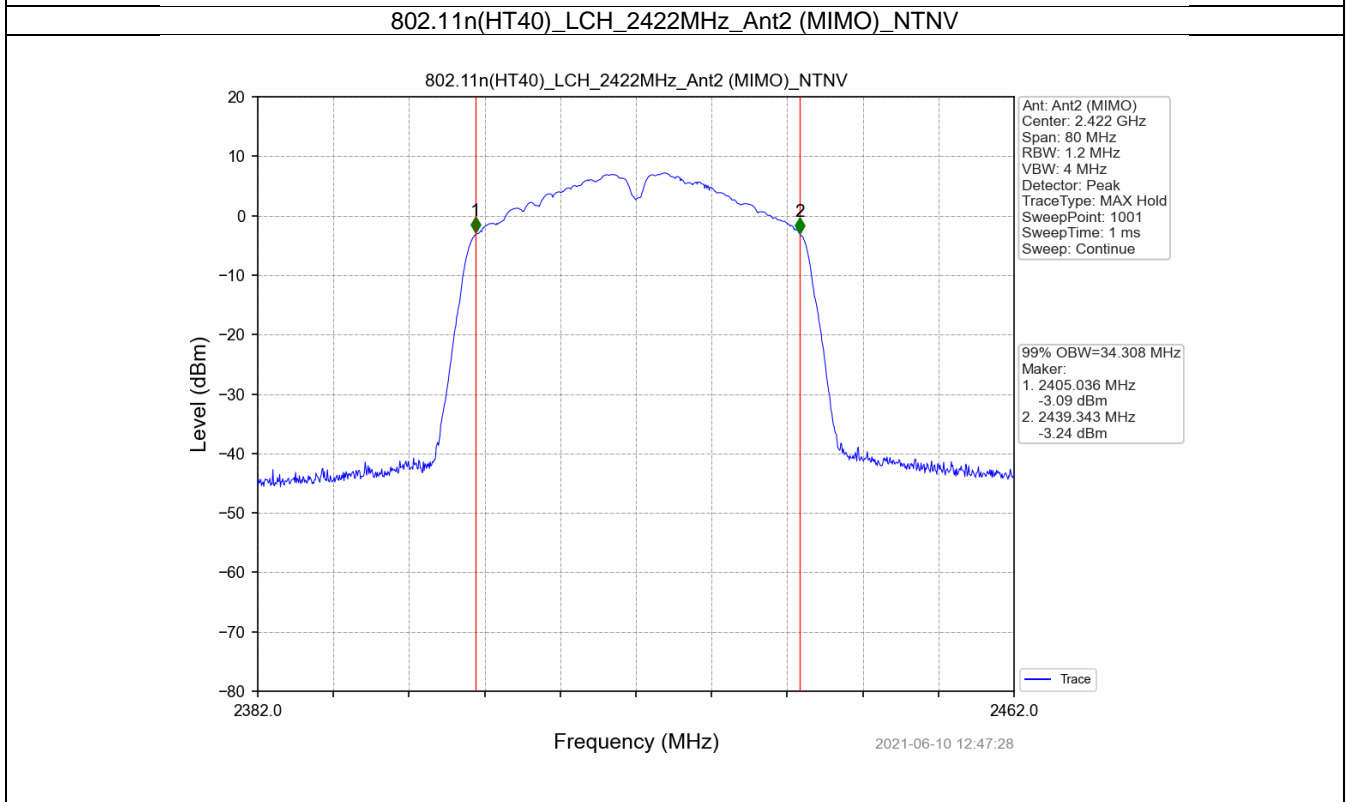
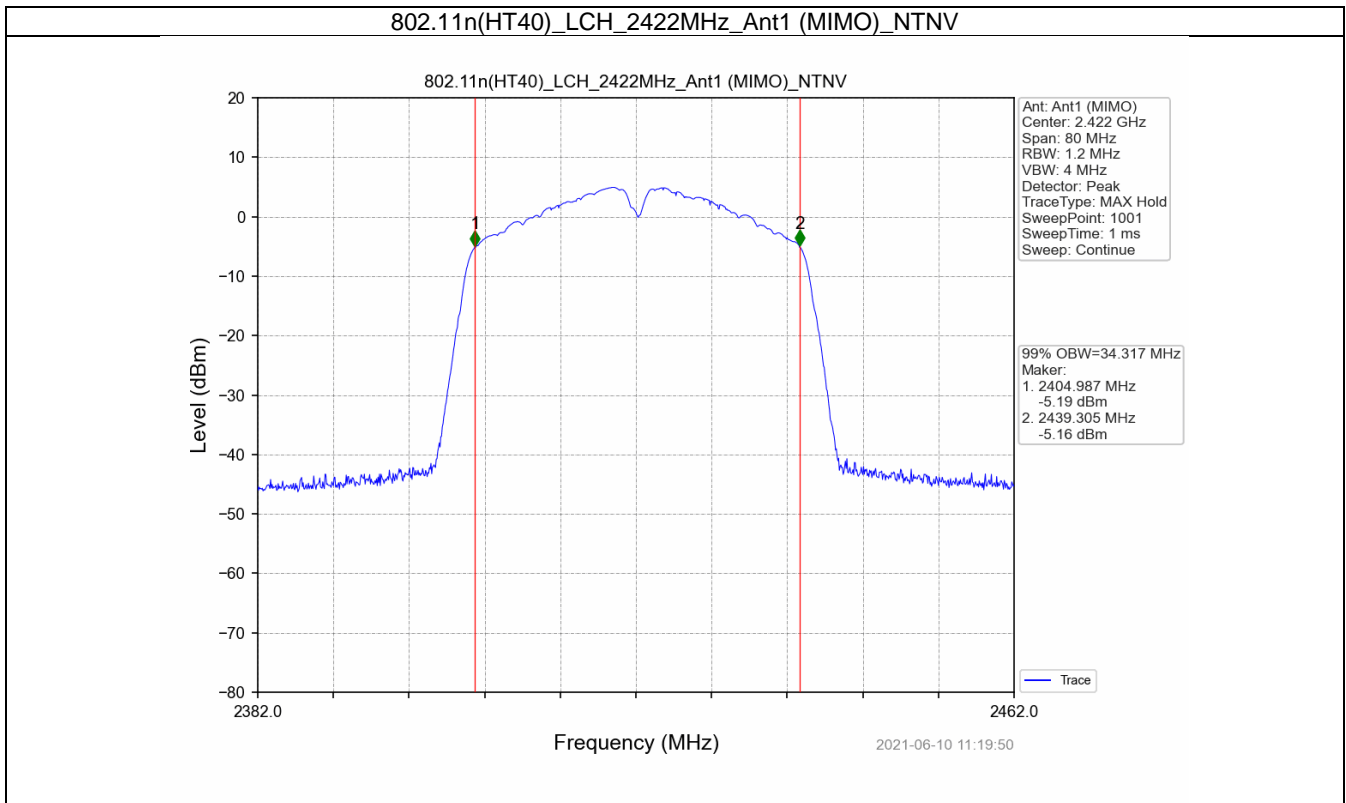


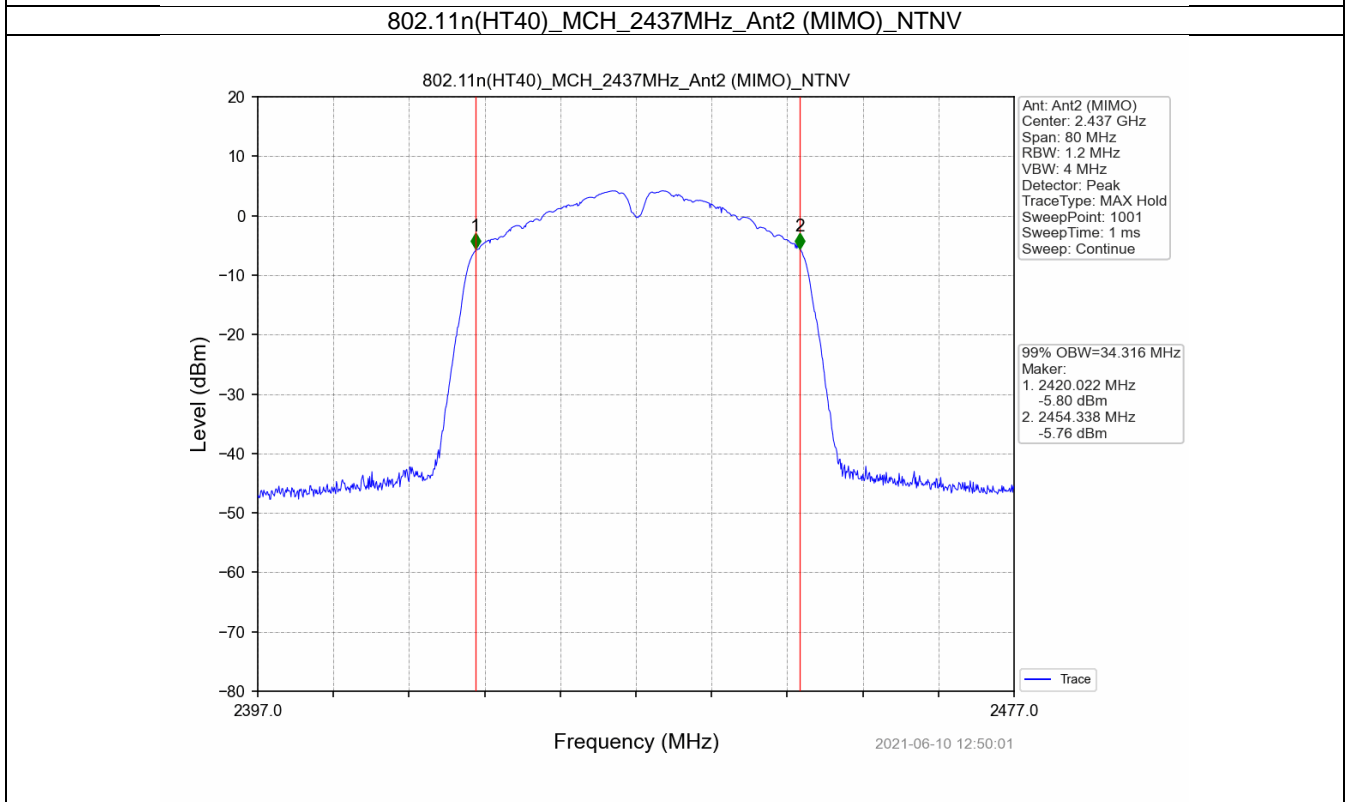
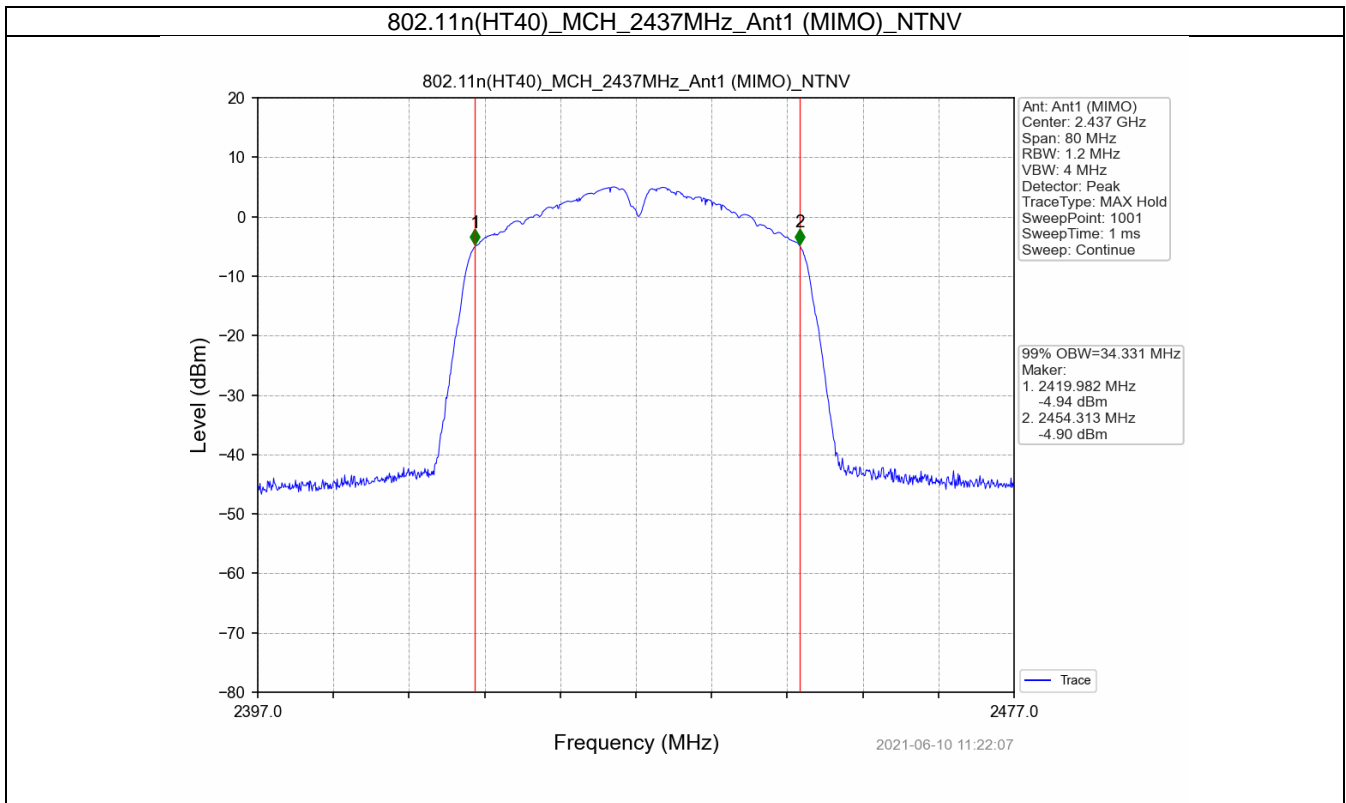


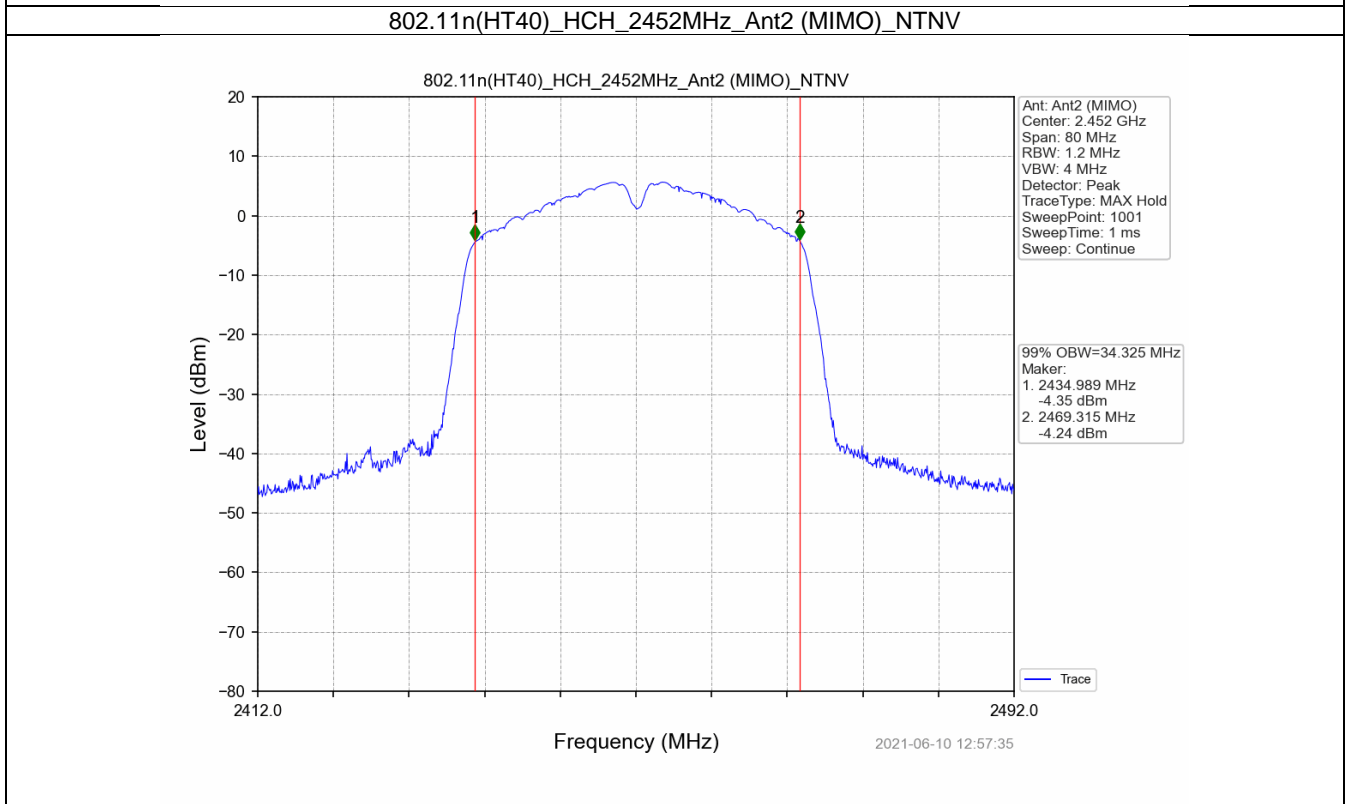
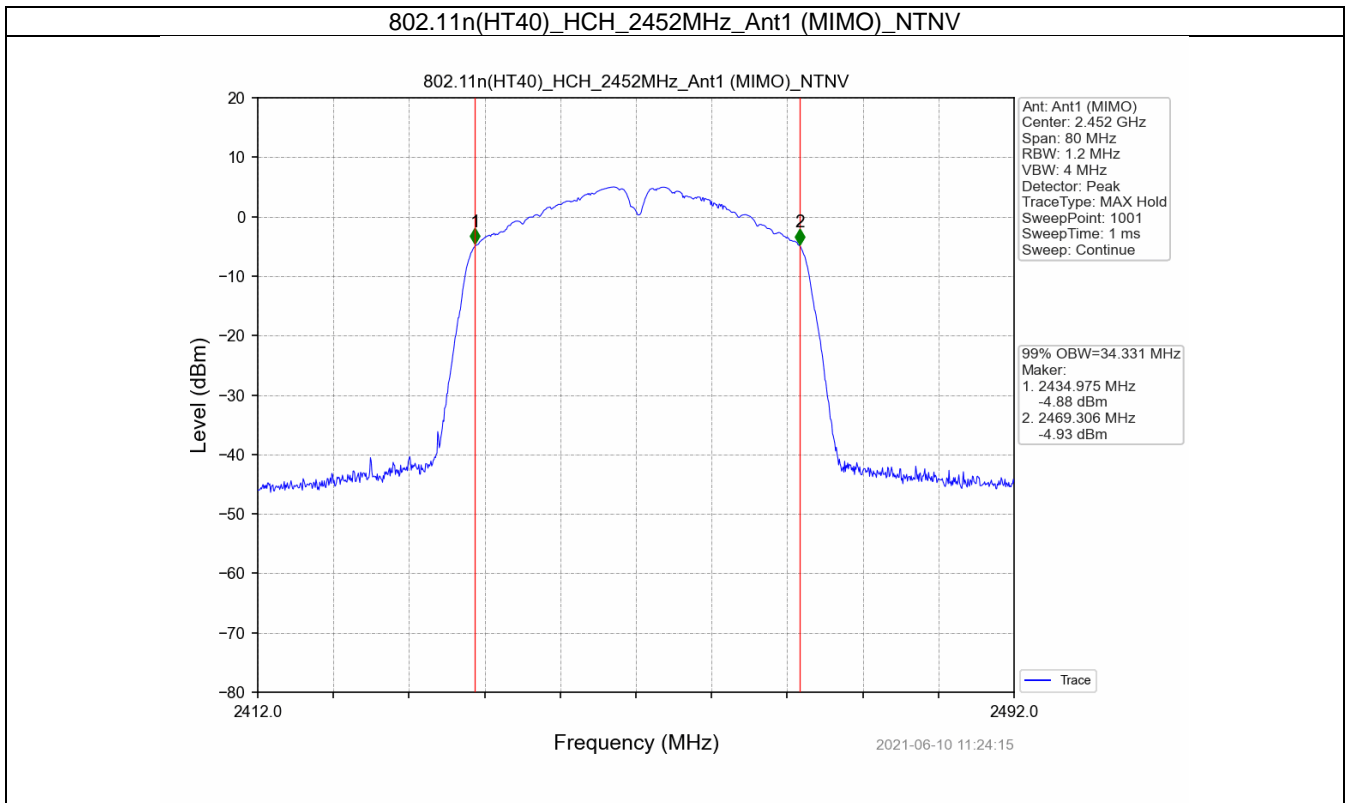










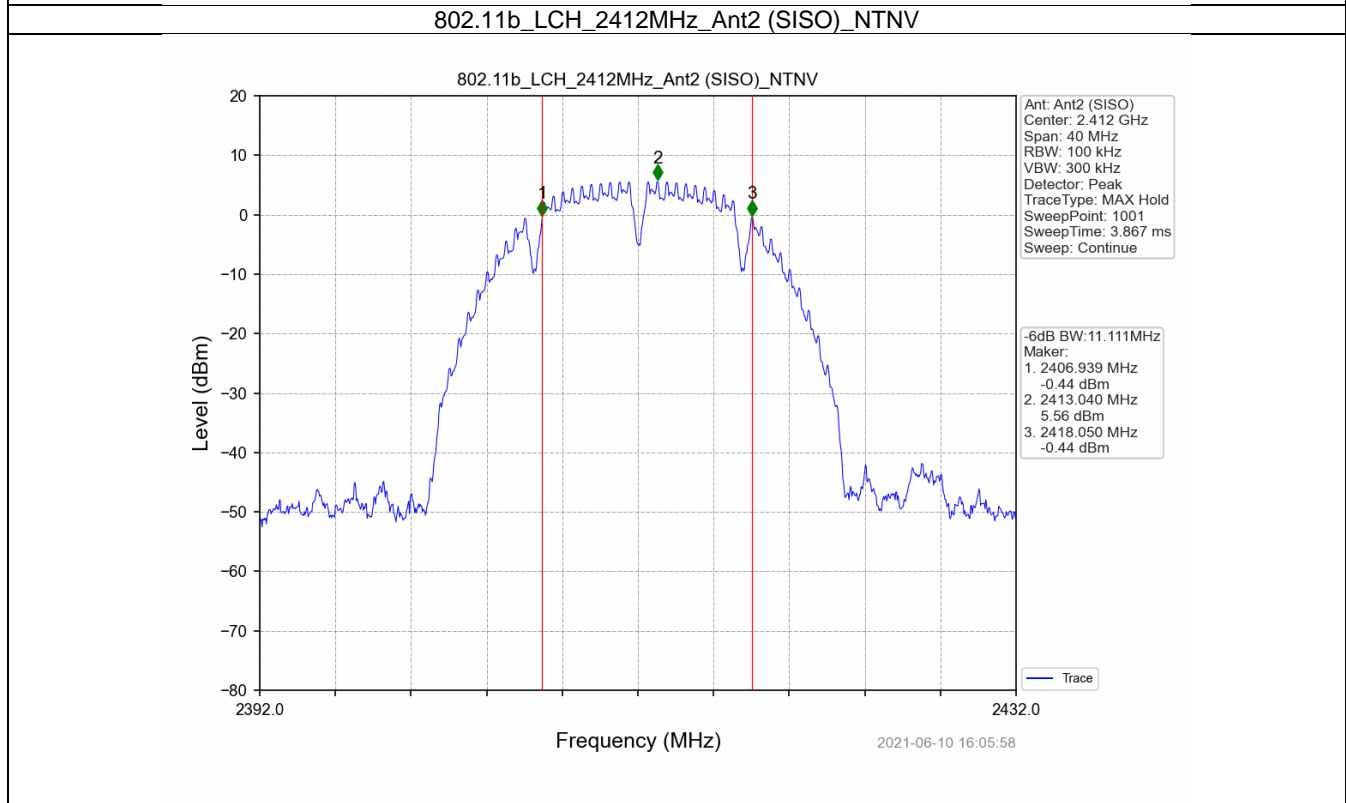
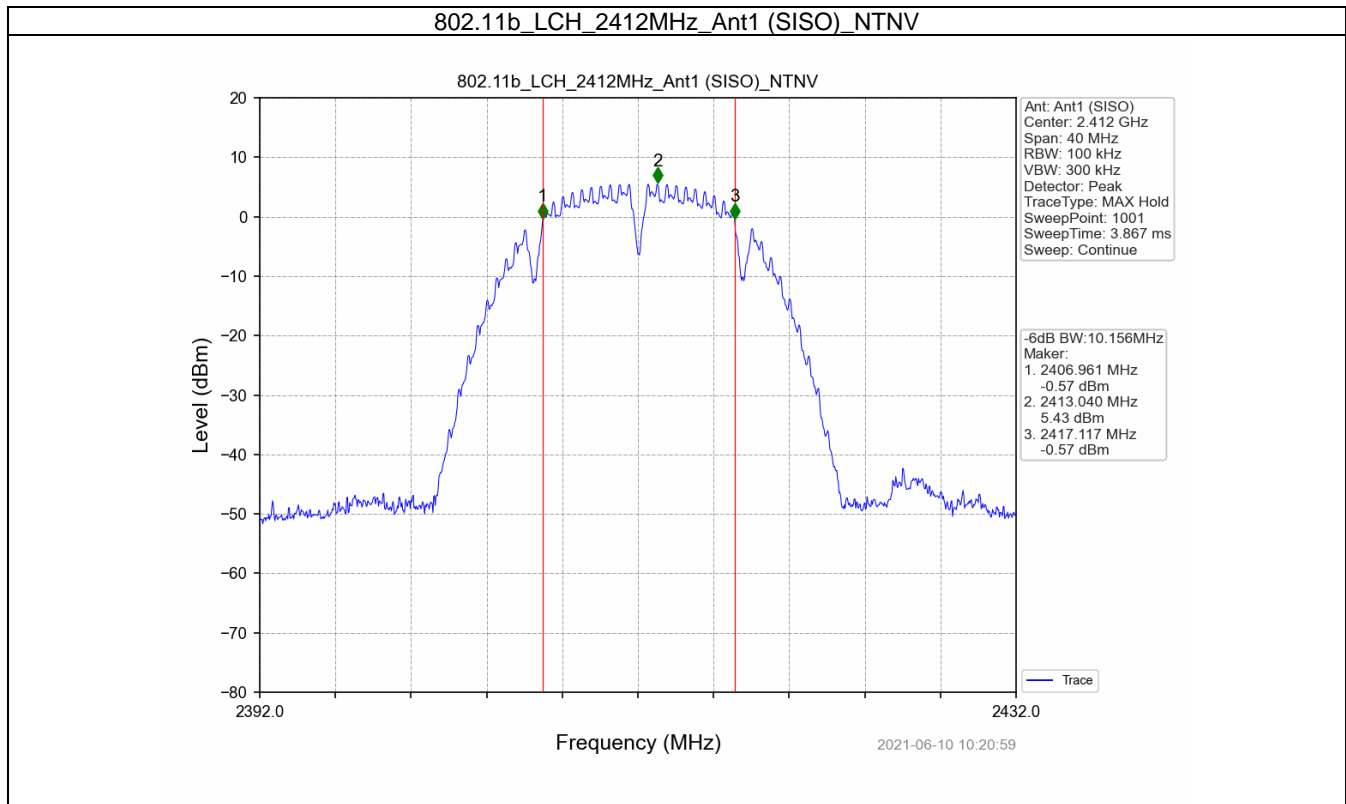


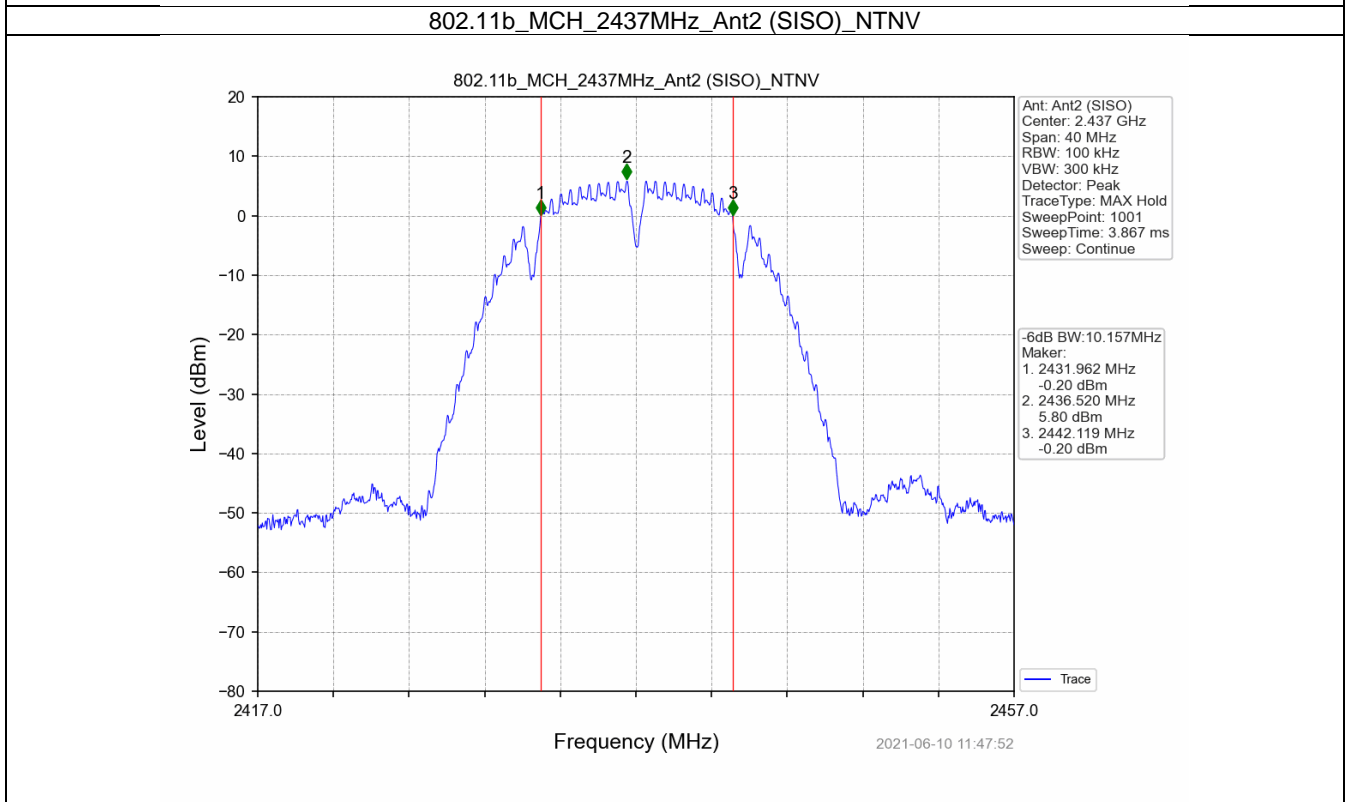
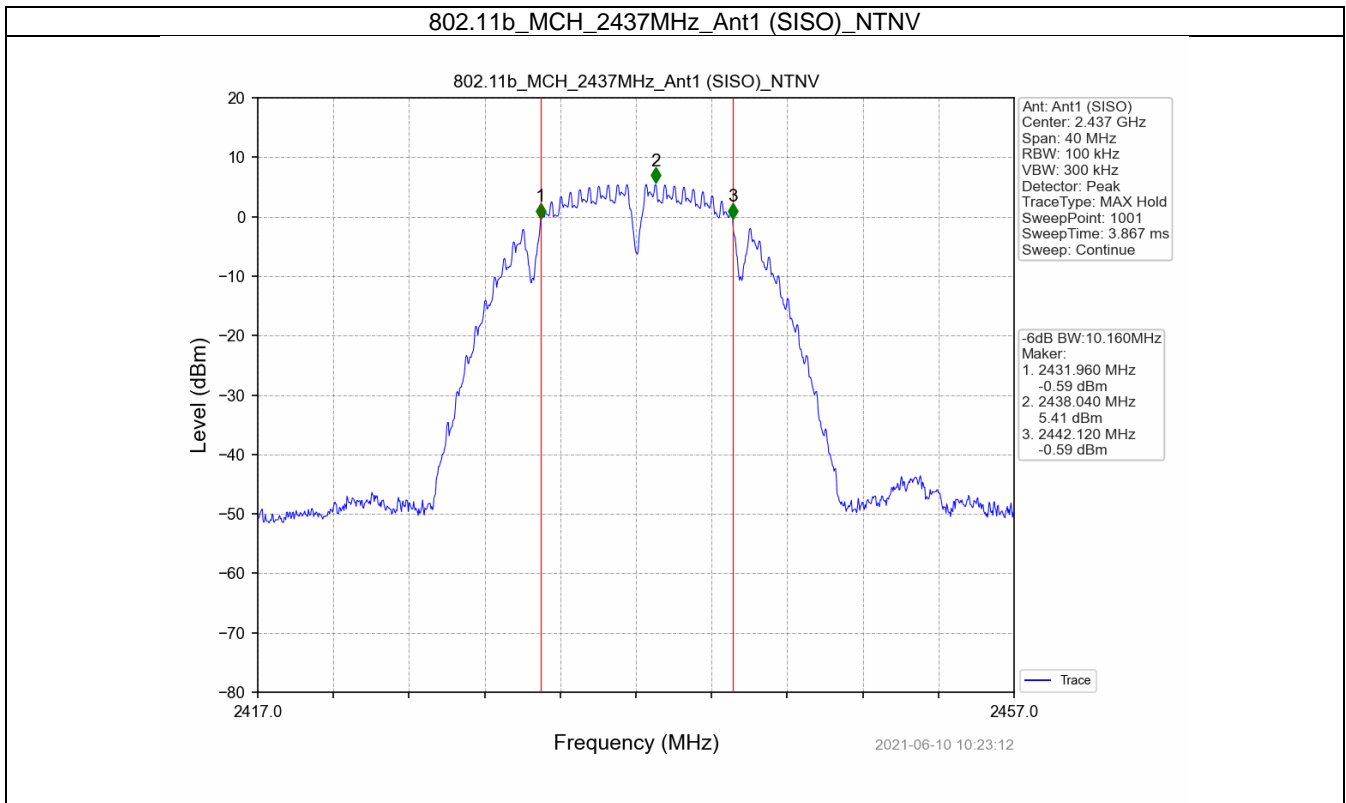
## 2.2 XDB

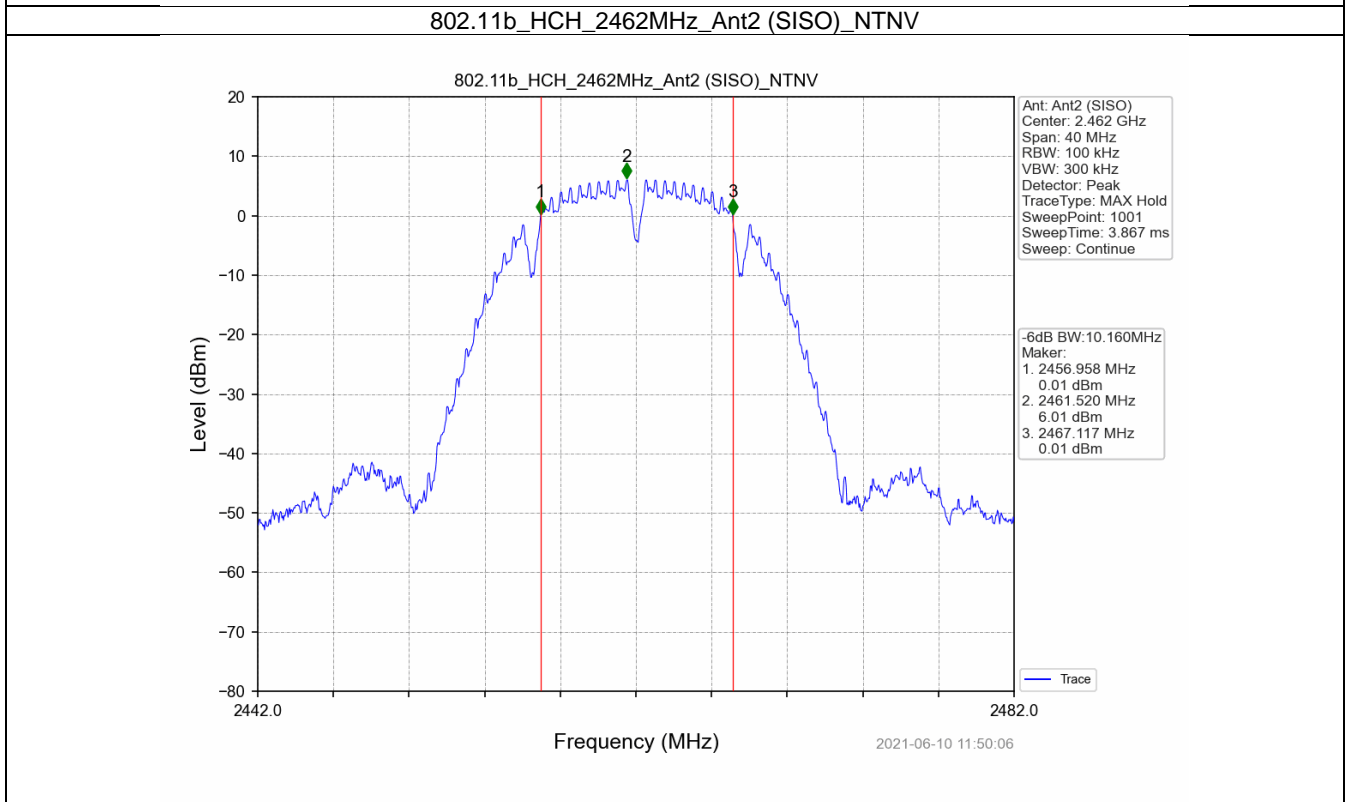
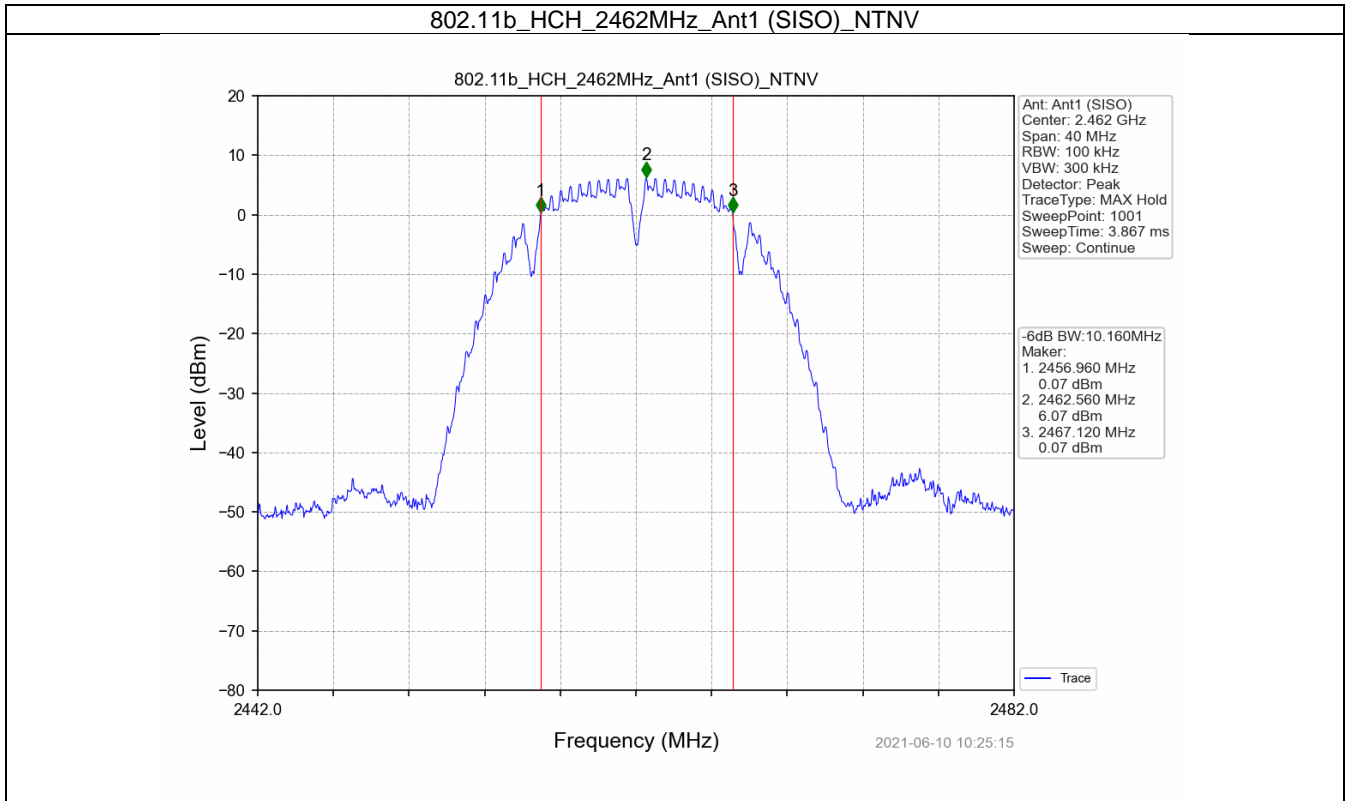
### 2.2.1 Test Result

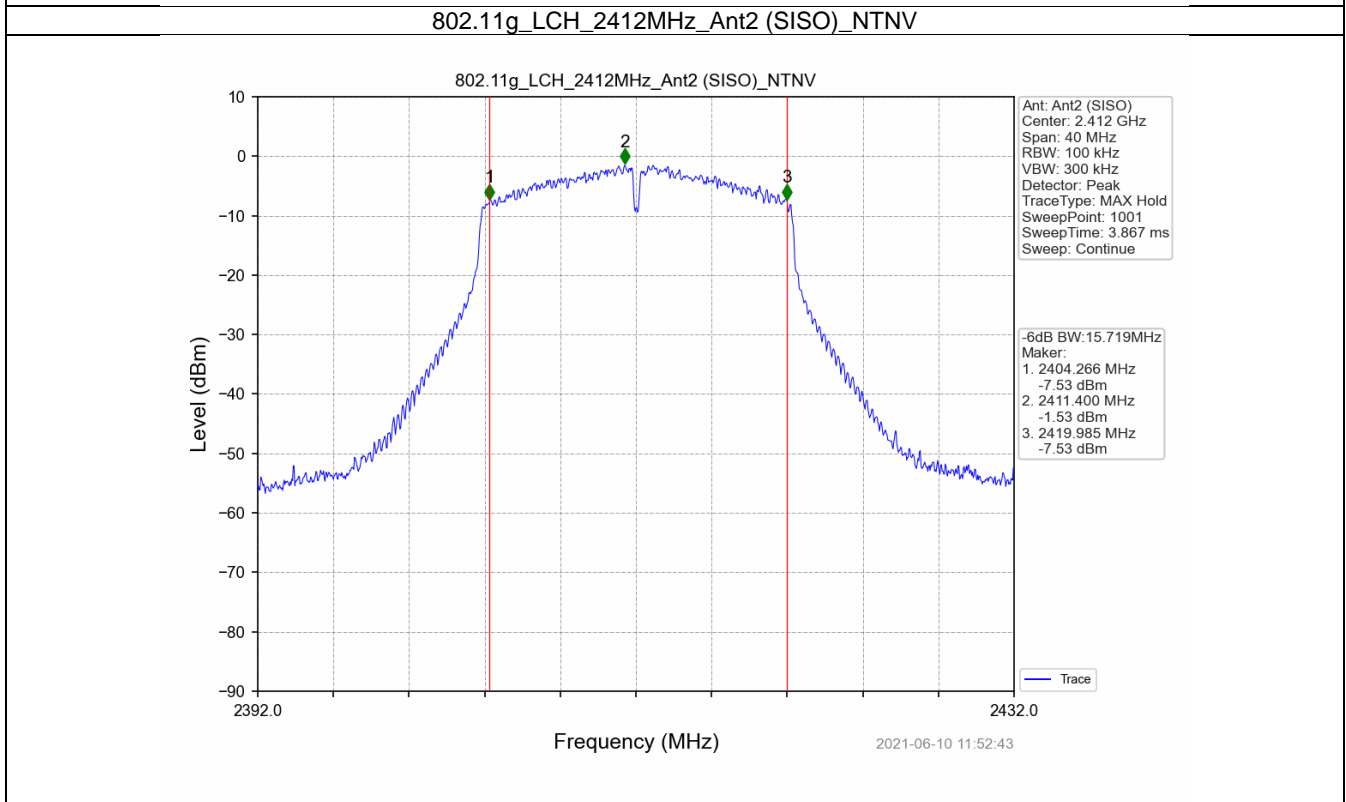
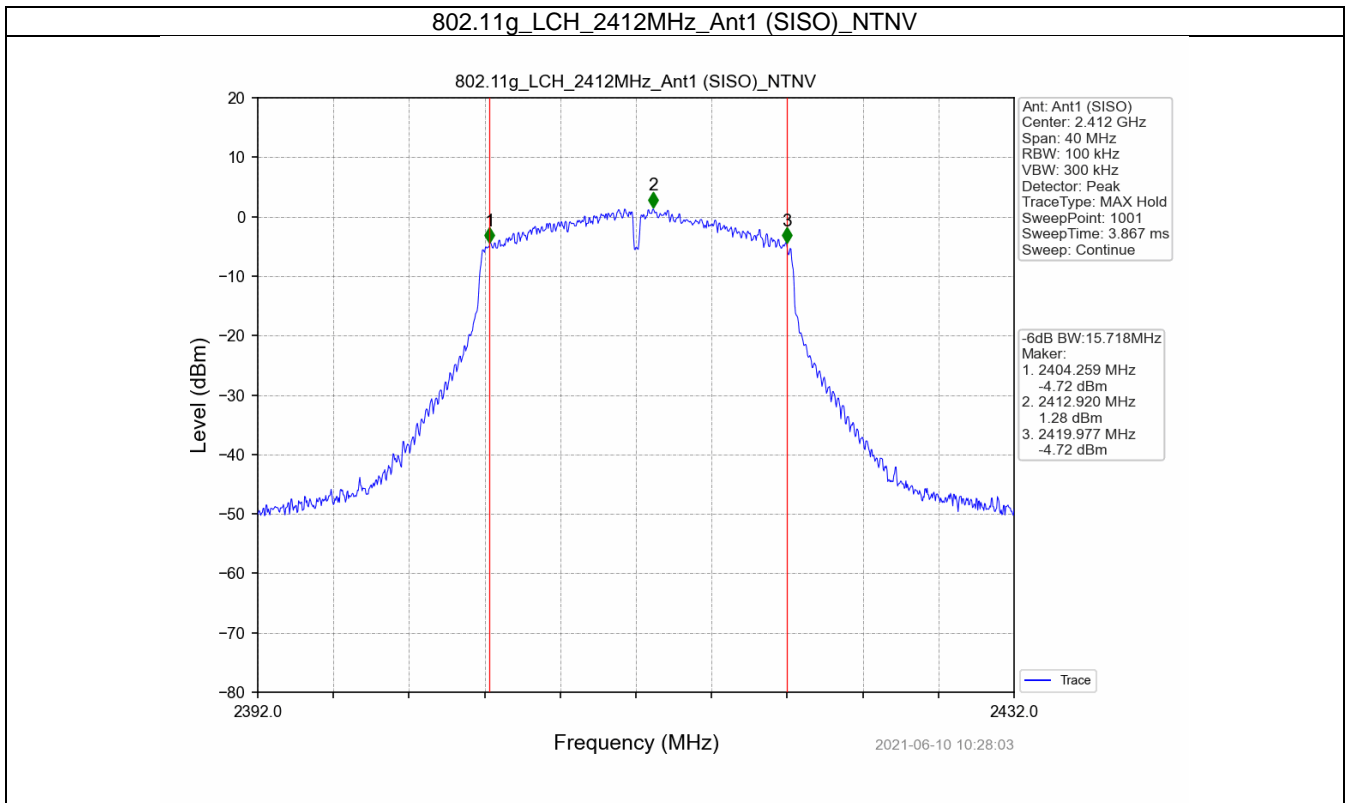
Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
802.11b	SISO	2412	/	/	10.156	11.111	>=0.5	Pass
		2437	/	/	10.160	10.157	>=0.5	Pass
		2462	/	/	10.160	10.160	>=0.5	Pass
802.11g	SISO	2412	/	/	15.718	15.719	>=0.5	Pass
		2437	/	/	15.727	15.714	>=0.5	Pass
		2462	/	/	15.716	15.707	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	16.315	15.860	>=0.5	Pass
		2437	/	/	15.434	15.859	>=0.5	Pass
		2462	/	/	15.436	15.433	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	24.672	23.841	>=0.5	Pass
		2437	/	/	25.942	25.912	>=0.5	Pass
		2452	/	/	25.903	25.878	>=0.5	Pass

2.2.2 Test Graph

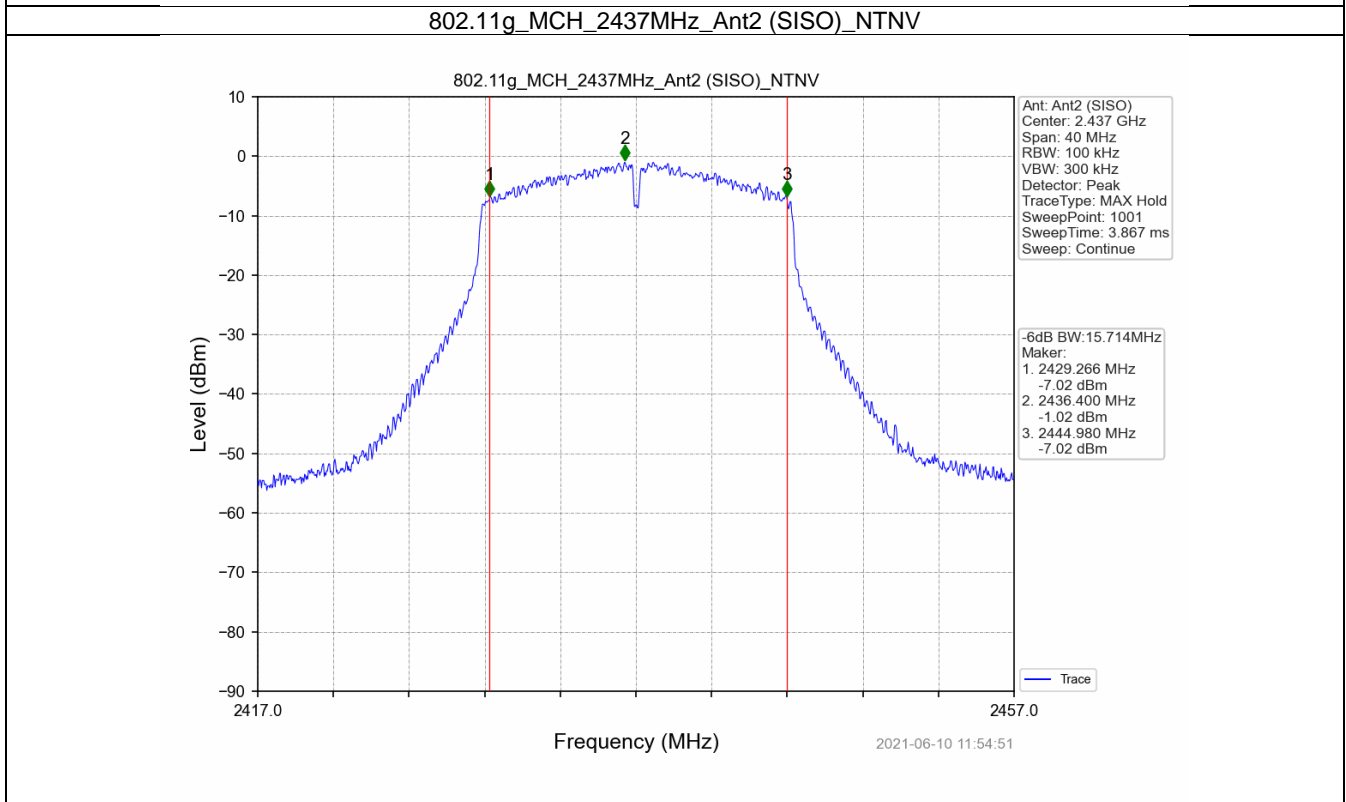
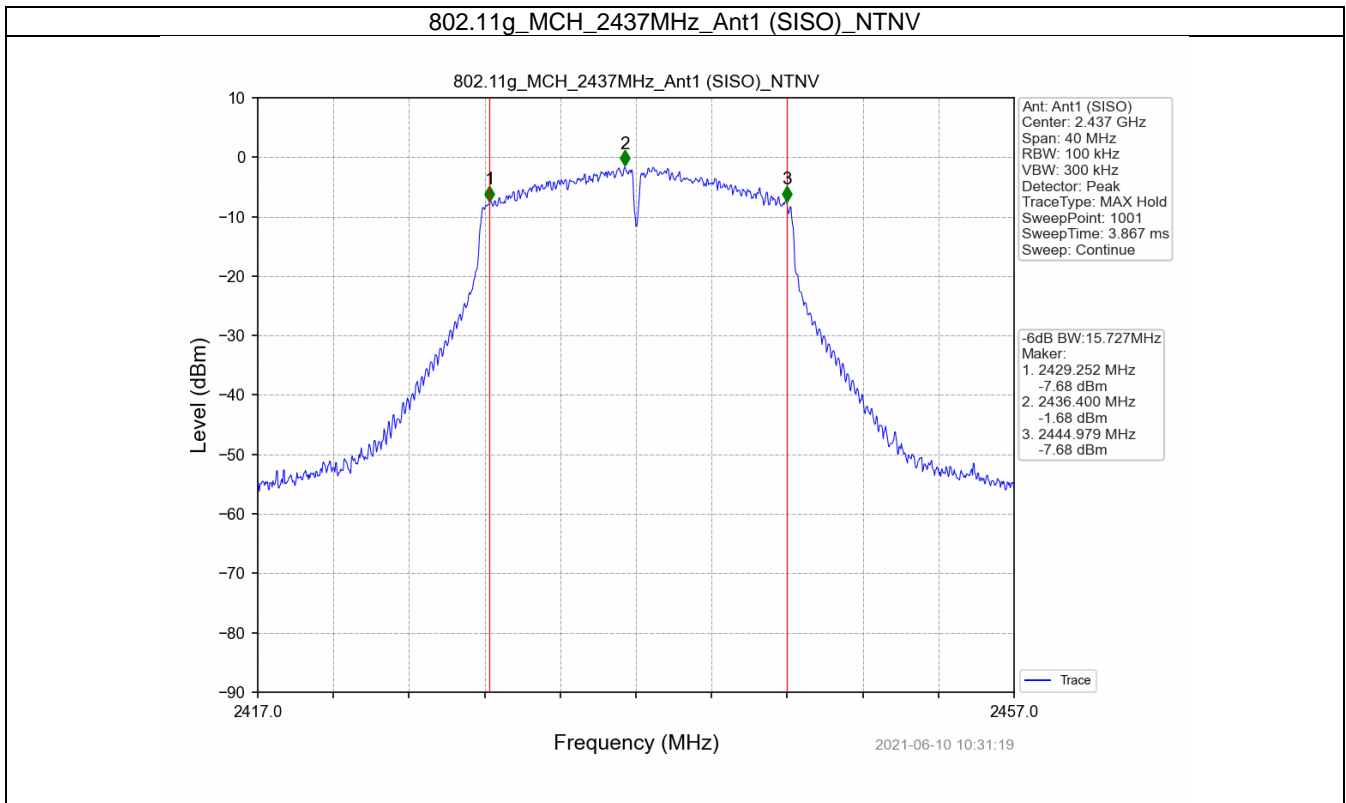


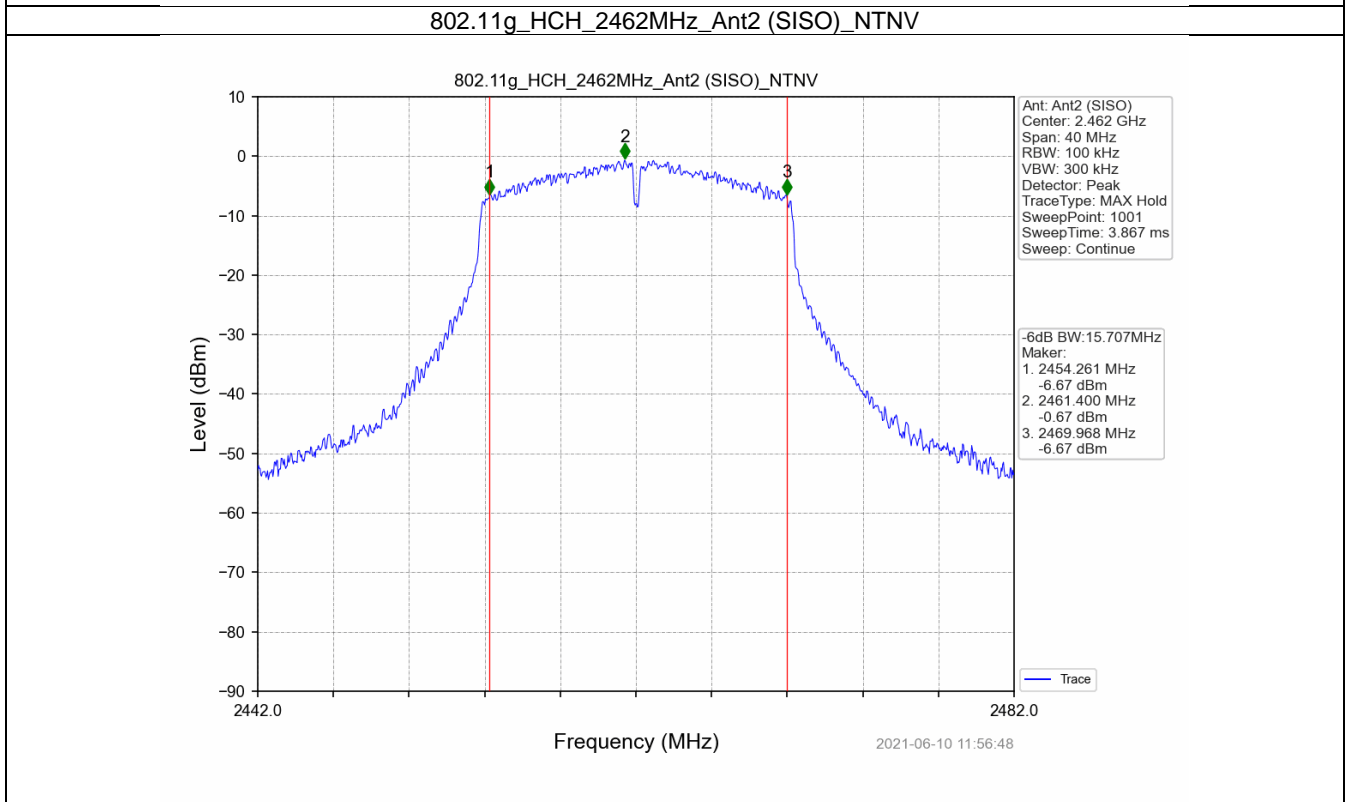
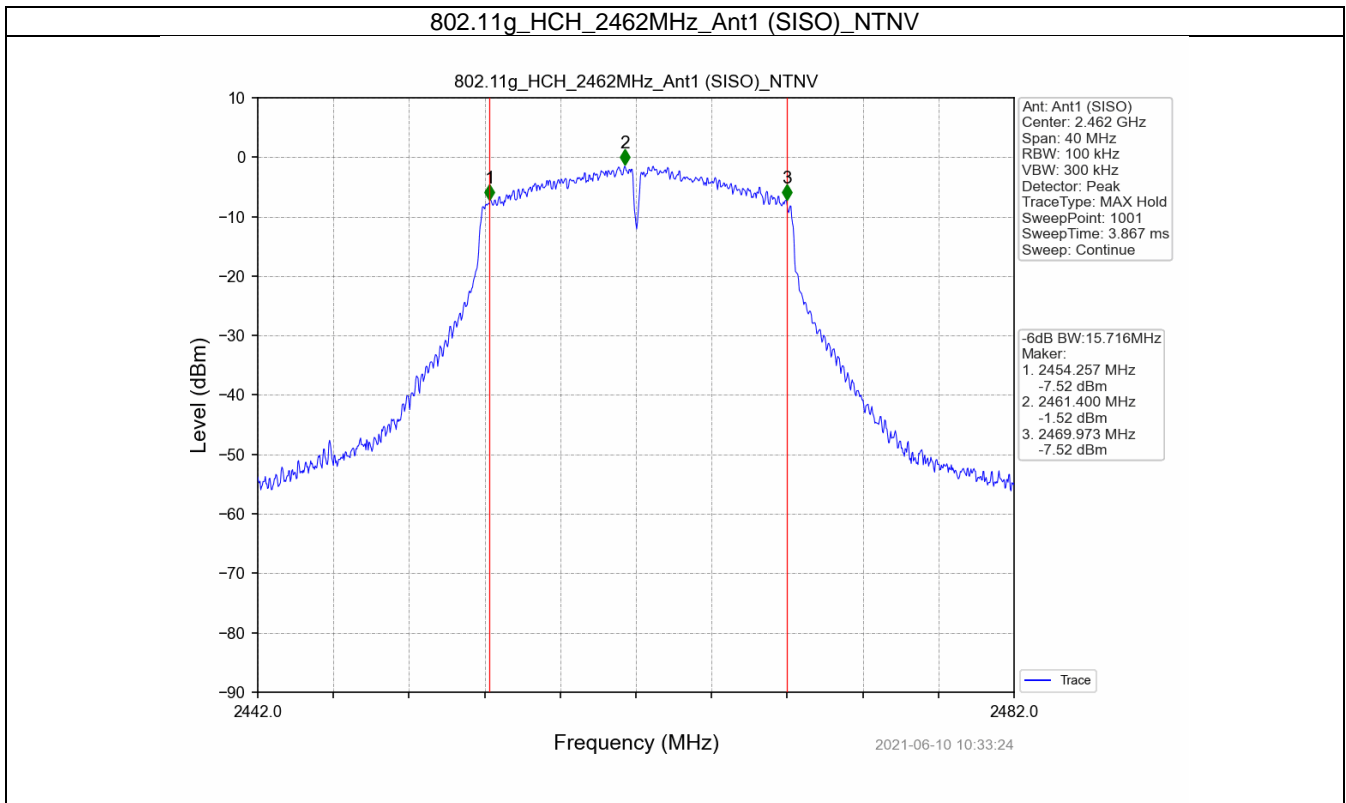


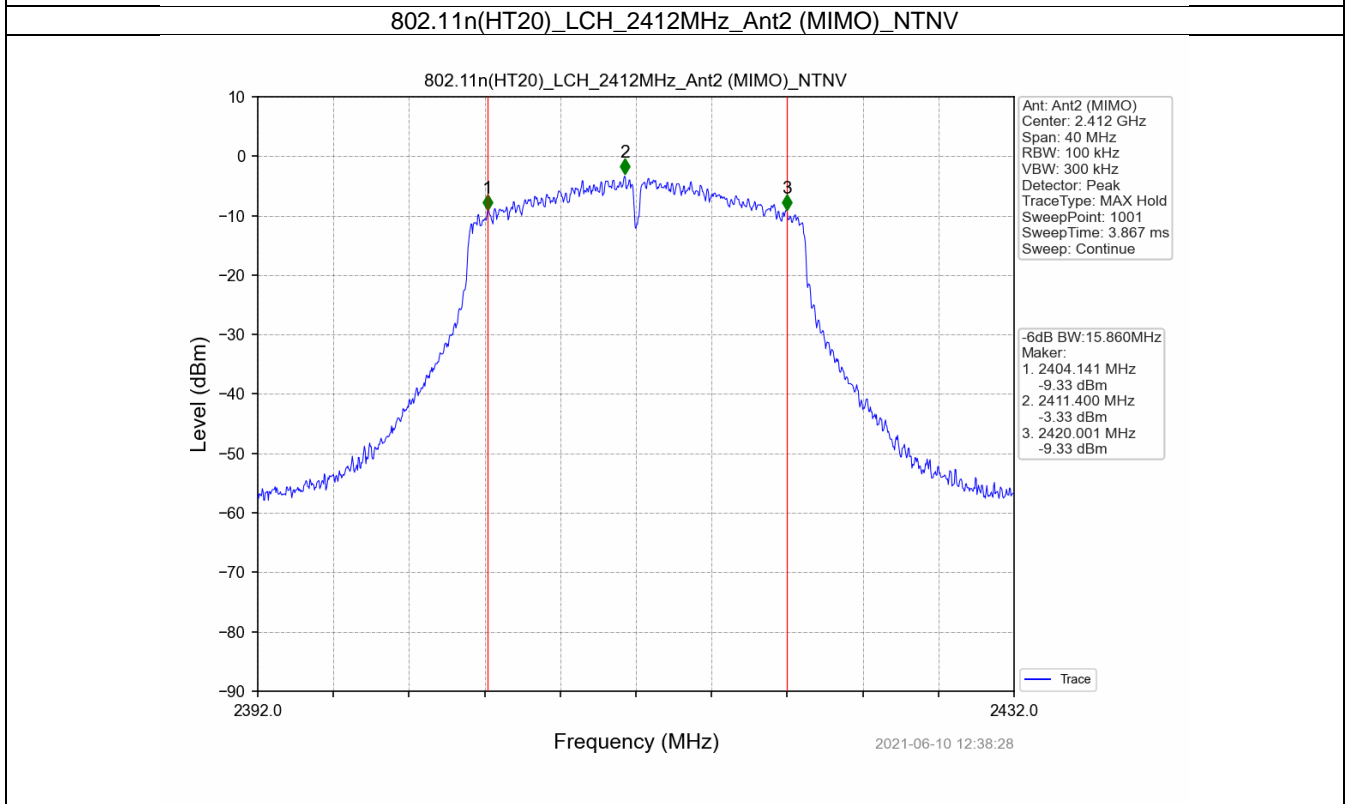
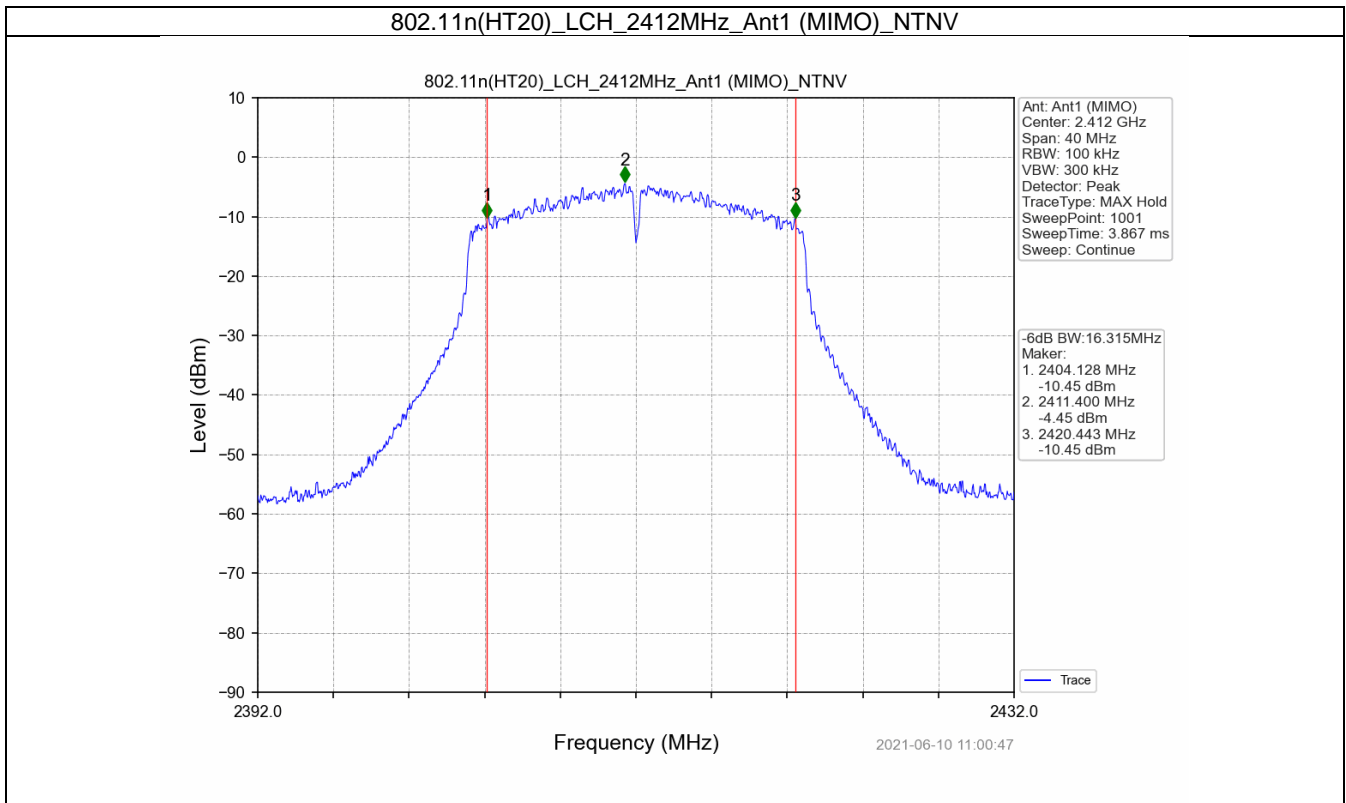


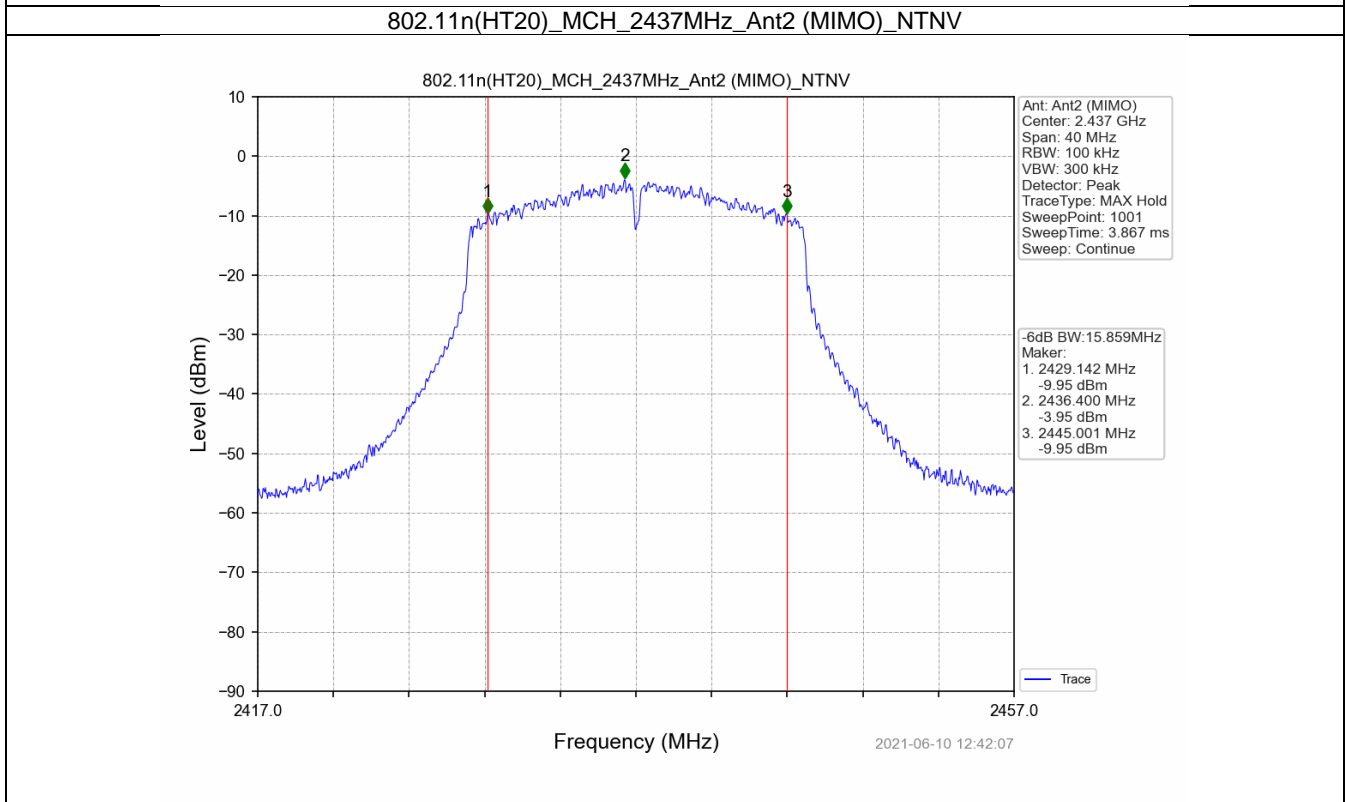
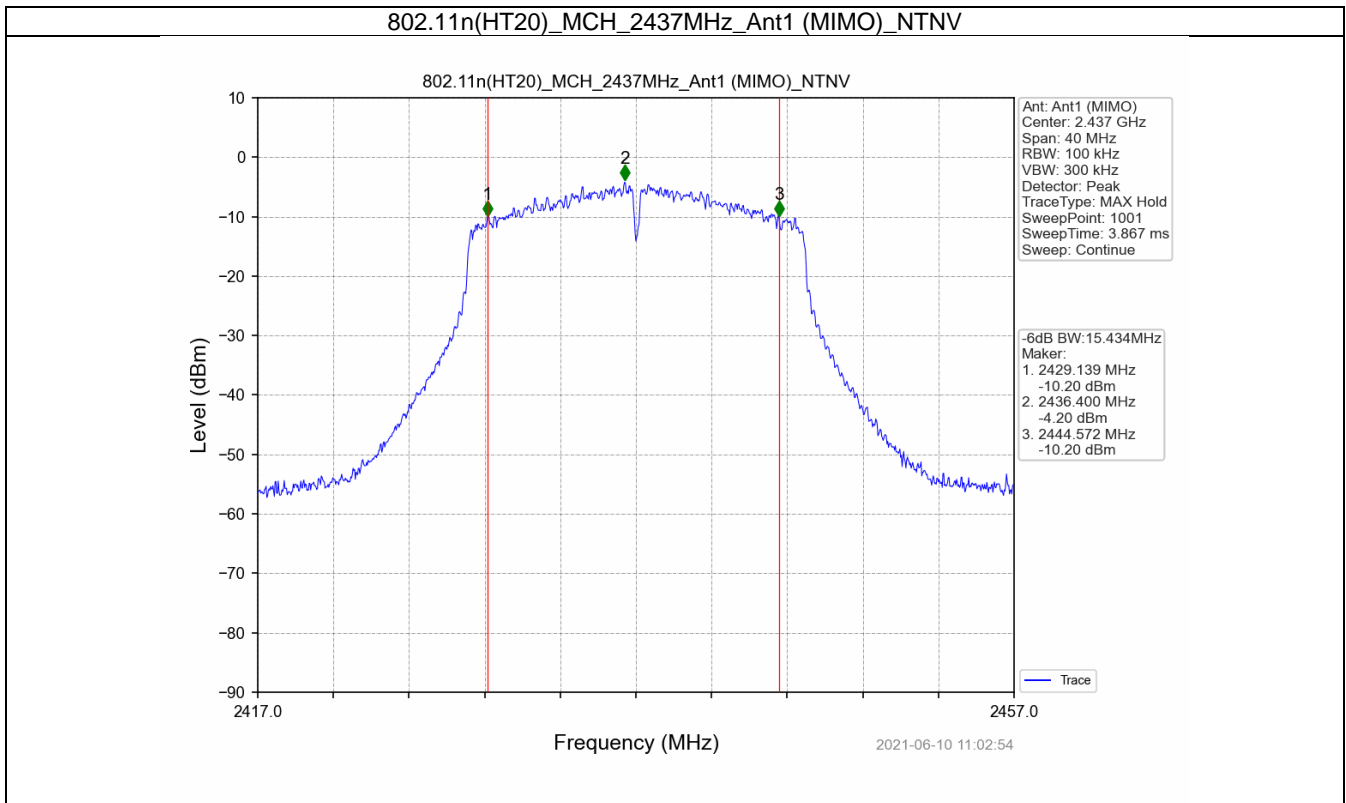


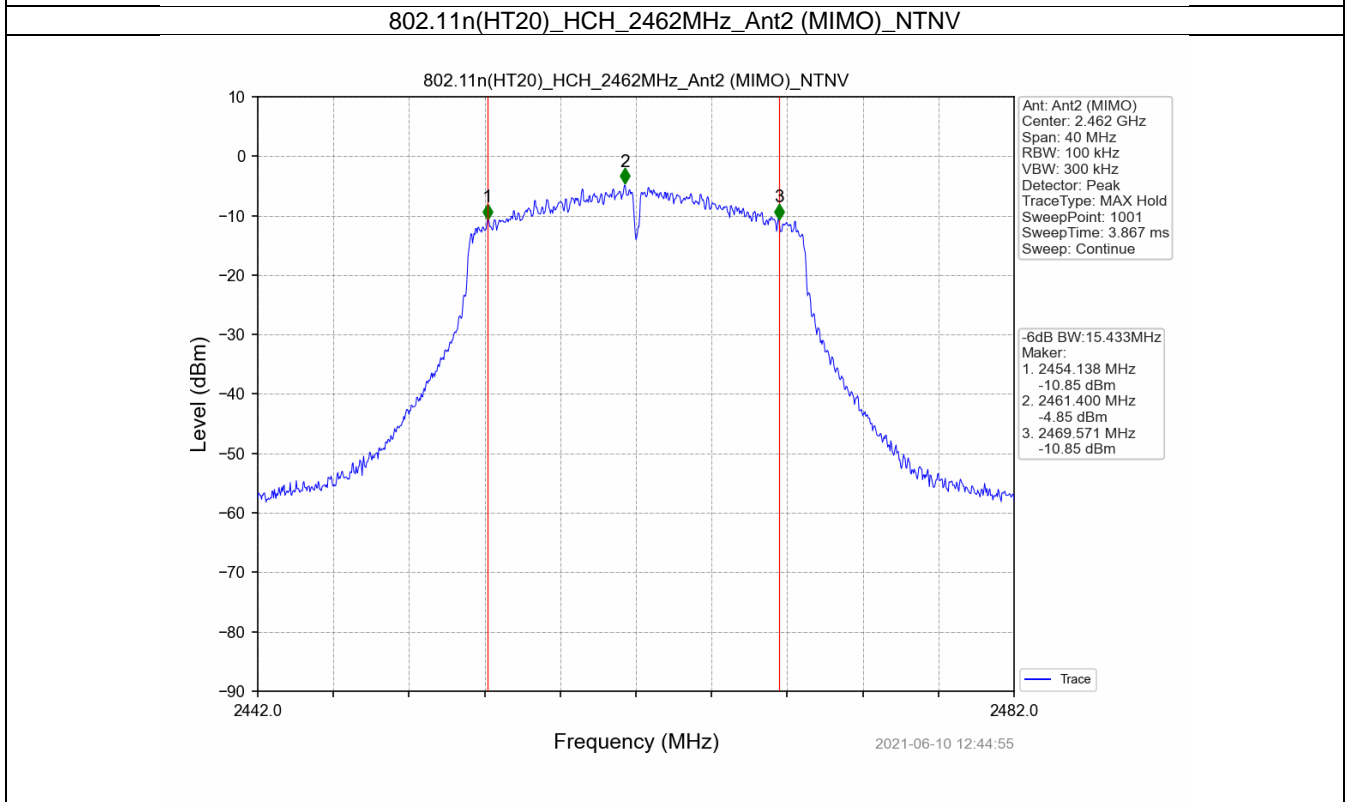
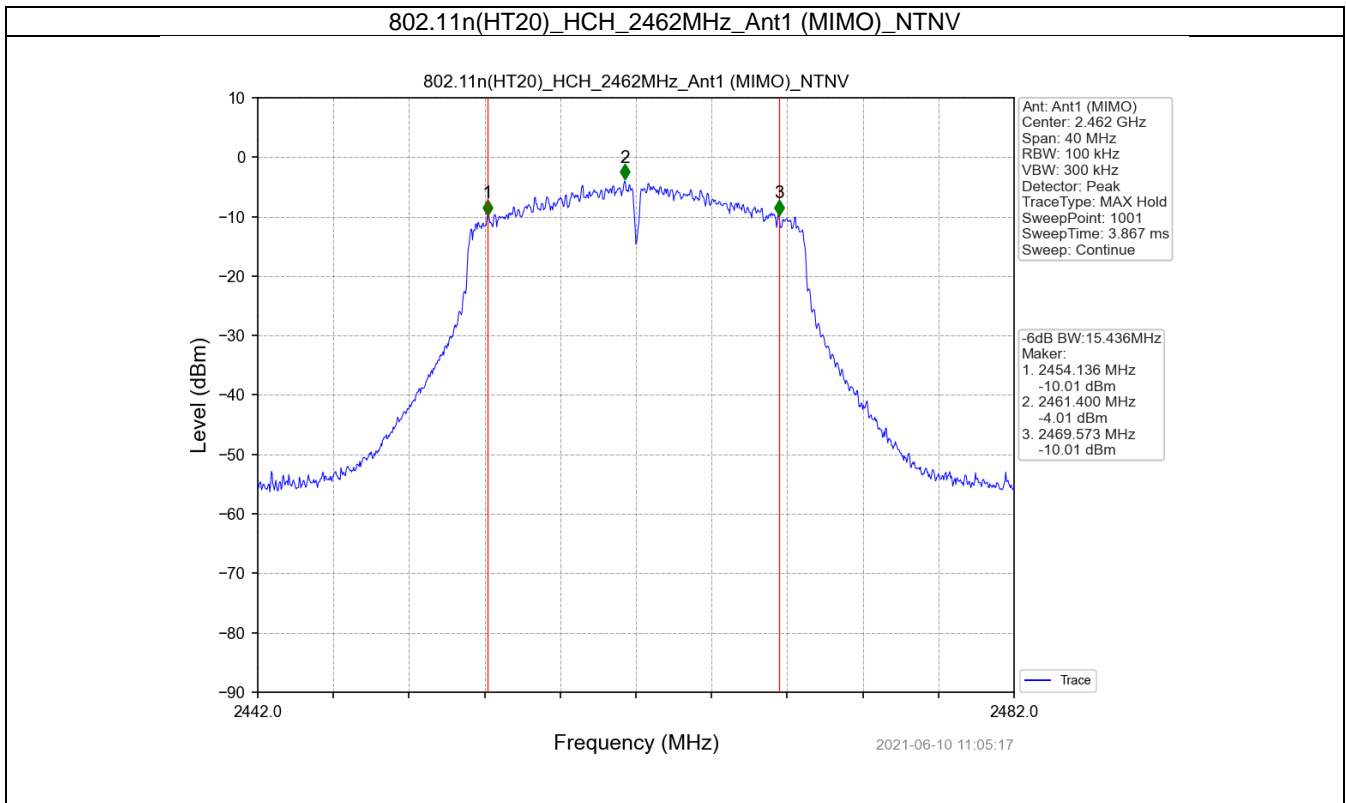


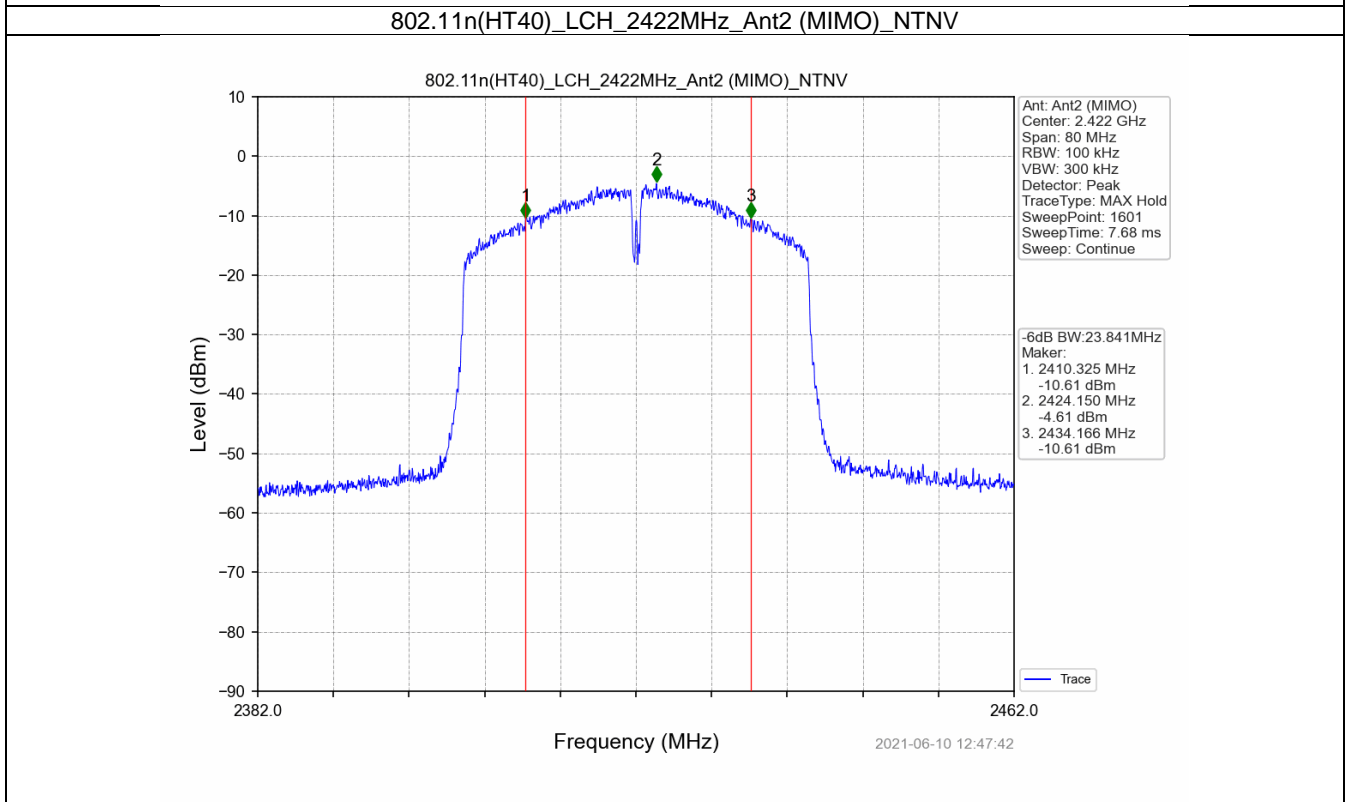
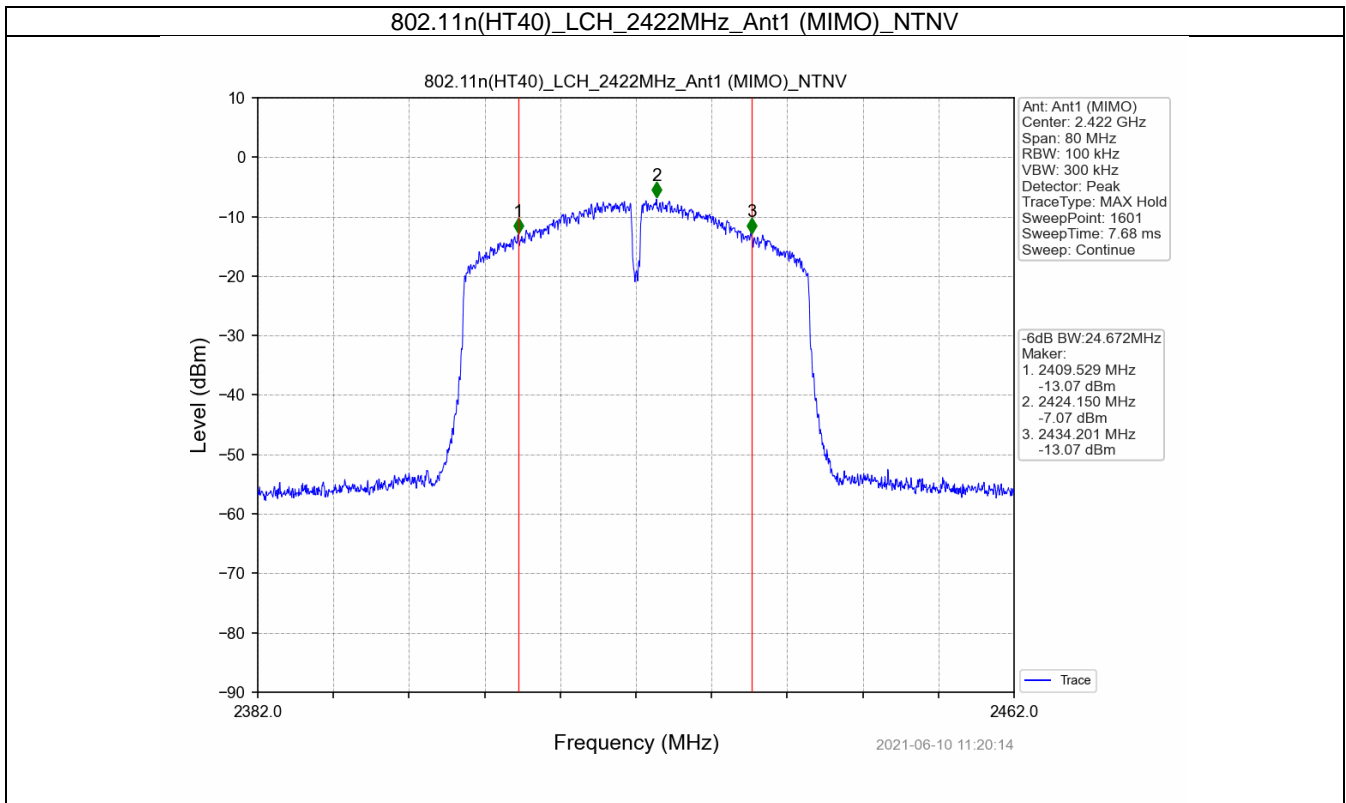


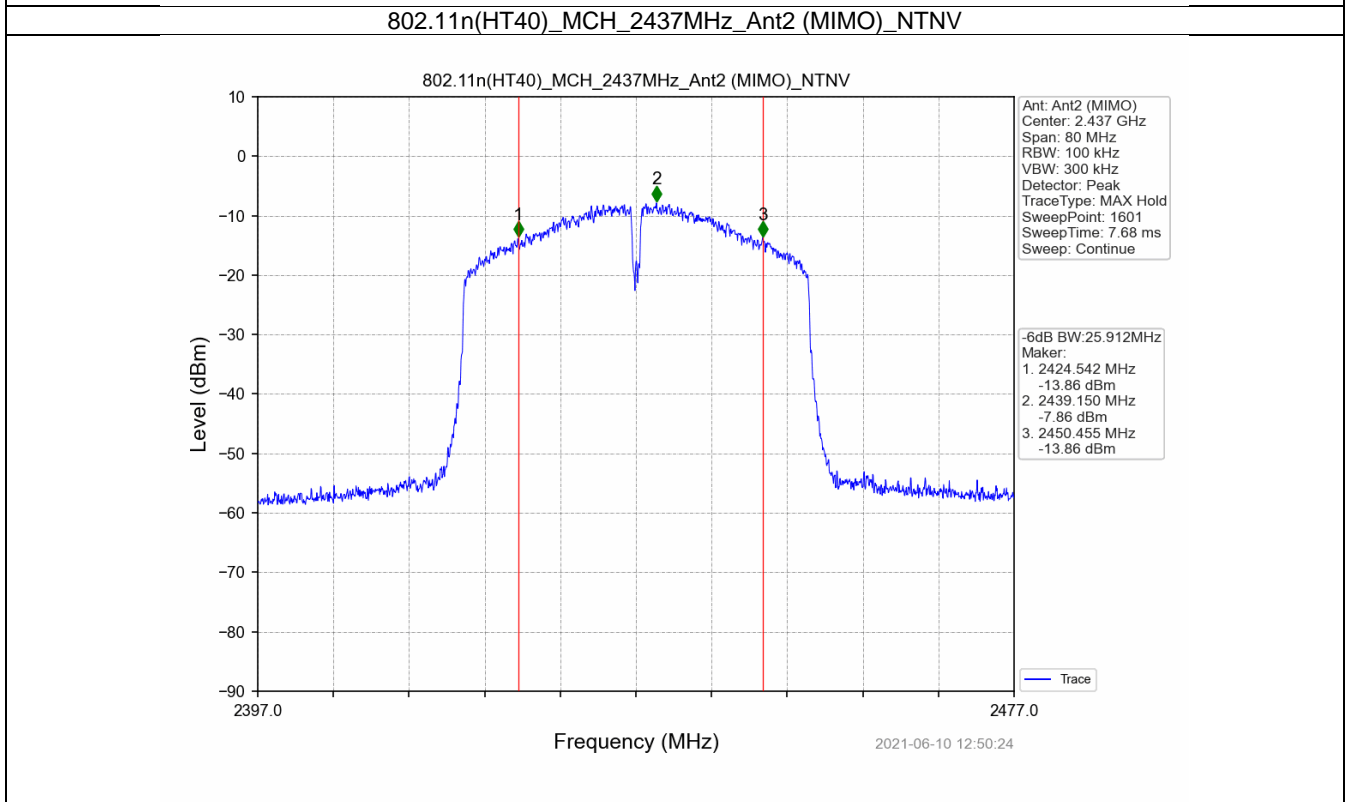
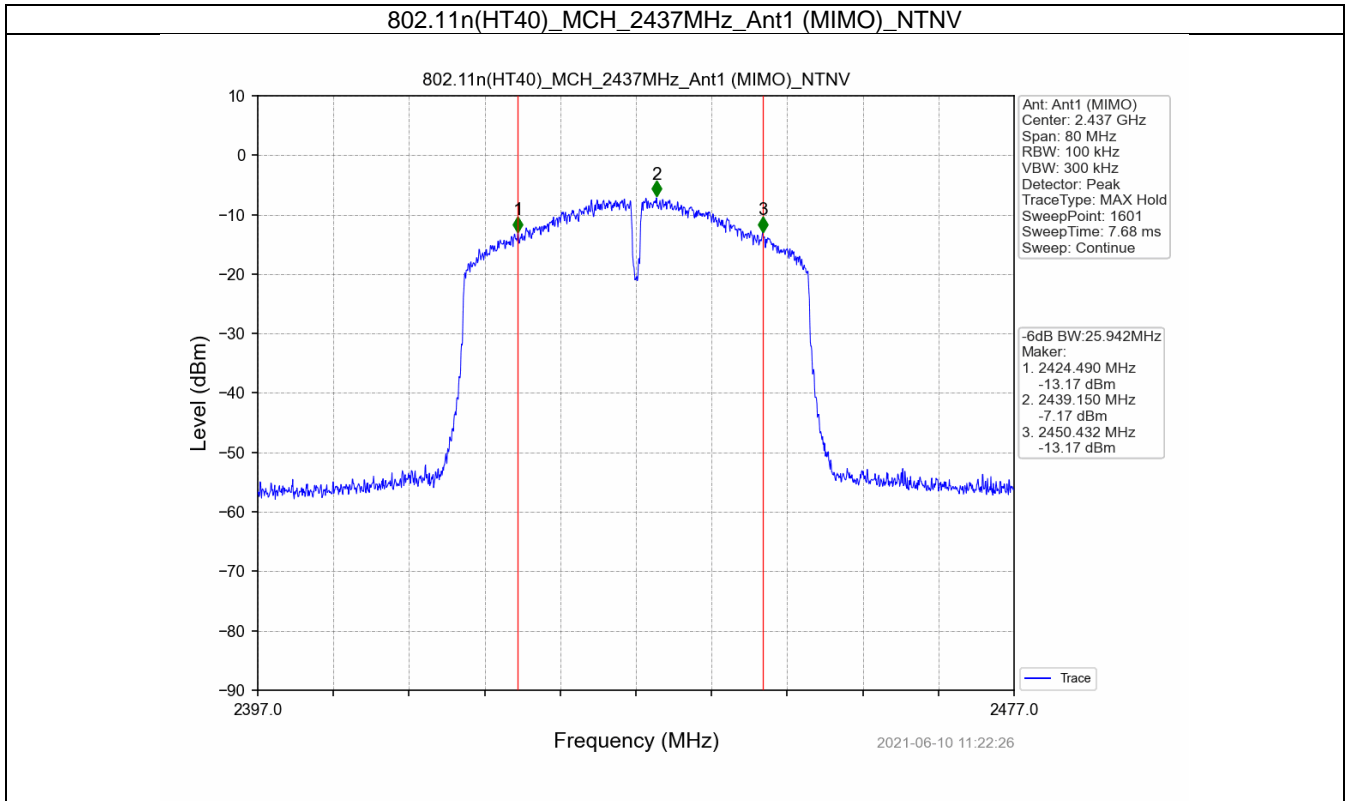


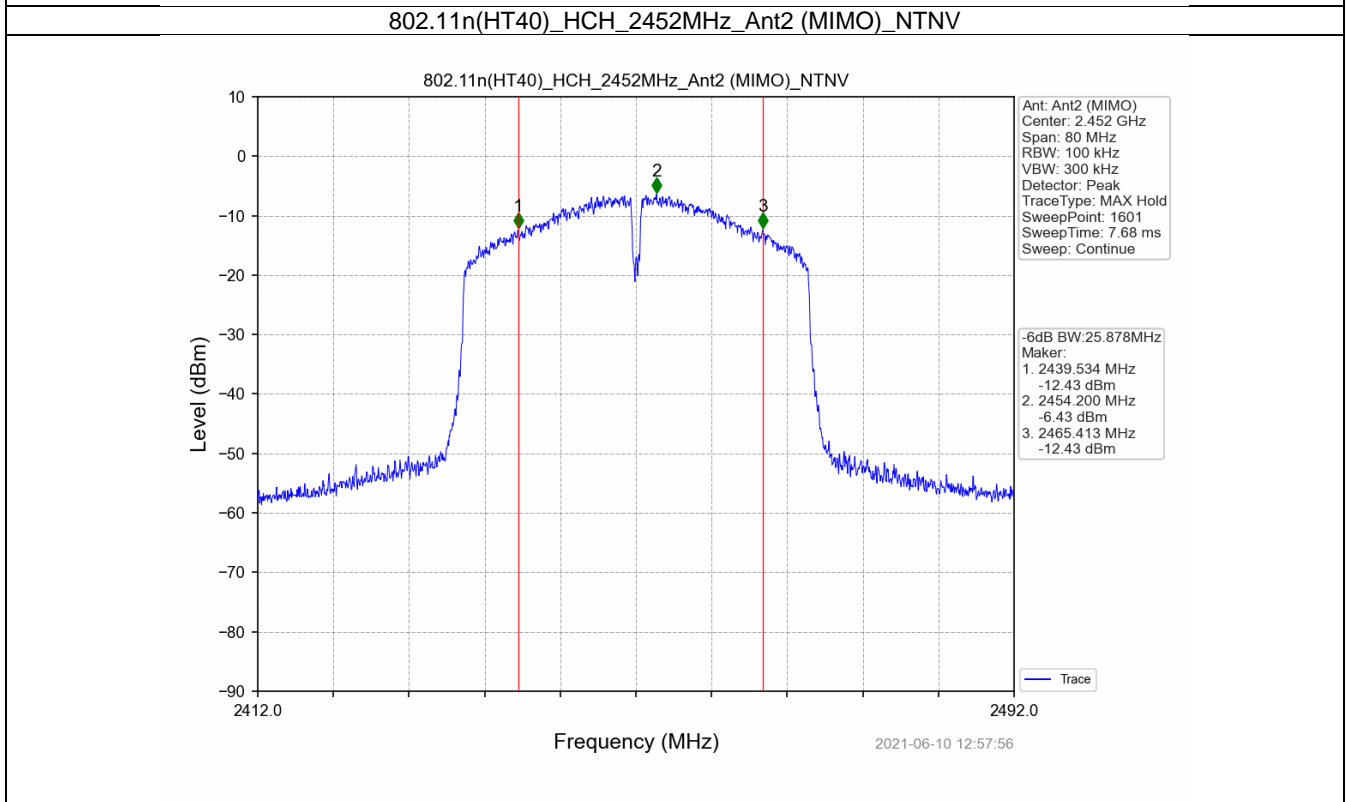
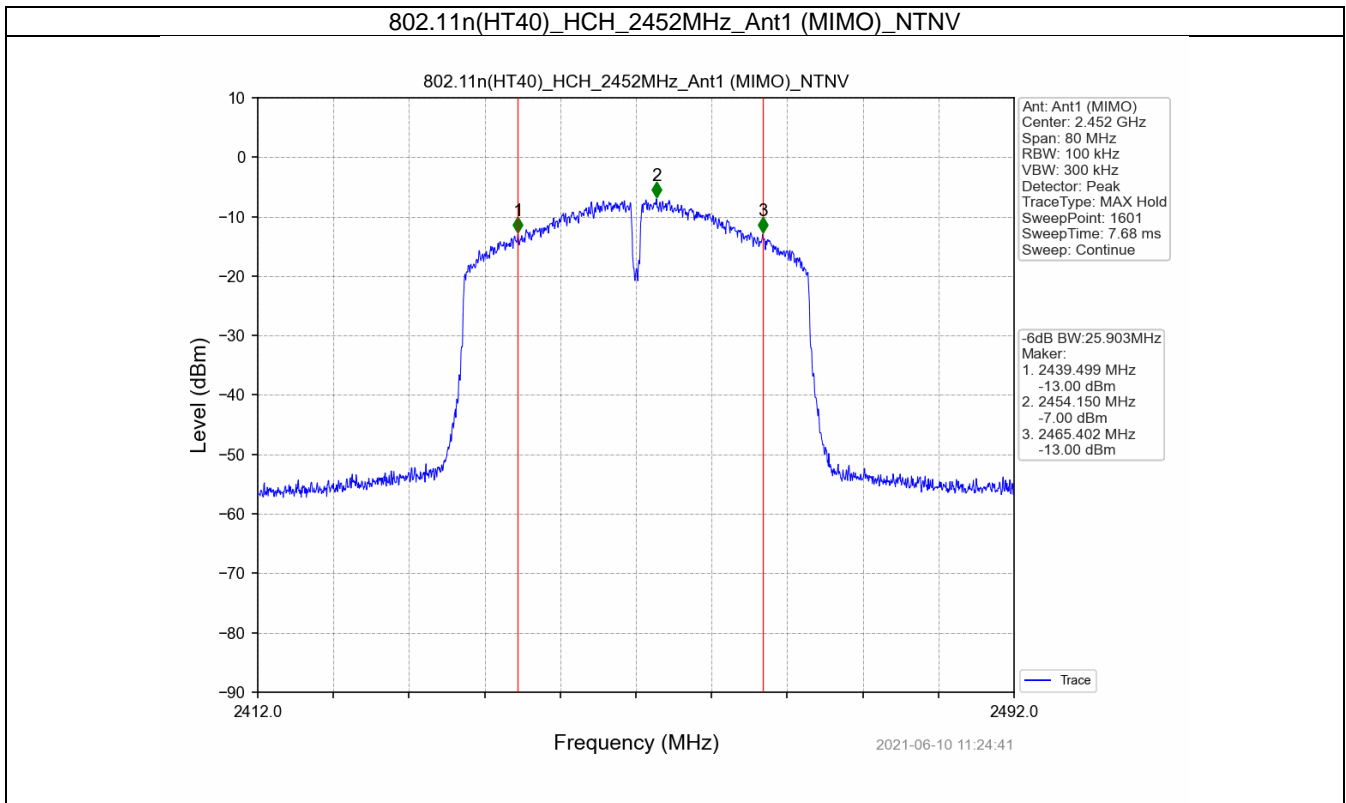














### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Measured Peak Output Power (dBm)			Limit (dBm)	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	18.50	18.75	/	<=30	Pass
		2437	/	/	18.48	18.81	/	<=30	Pass
		2462	/	/	19.14	19.10	/	<=30	Pass
802.11g	SISO	2412	/	/	18.57	18.88	/	<=30	Pass
		2437	/	/	18.71	18.81	/	<=30	Pass
		2462	/	/	18.87	19.10	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	15.77	15.97	18.88	<=27.99	Pass
		2437	/	/	15.89	16.21	19.06	<=27.99	Pass
		2462	/	/	16.03	15.15	18.62	<=27.99	Pass
802.11n (HT40)	MIMO	2422	/	/	15.01	15.06	18.05	<=27.99	Pass
		2437	/	/	15.07	15.50	18.30	<=27.99	Pass
		2452	/	/	15.09	15.72	18.43	<=27.99	Pass

Note1: Antenna Gain: 1: 5.00dBi; 2: 5.00dBi;

#### 4. Maximum Power Spectral Density

##### 4.1 PSD

##### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)			Limit (dBm/3kHz)	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	-14.59	-14.49	/	<=8.00	Pass
		2437	/	/	-14.61	-14.18	/	<=8.00	Pass
		2462	/	/	-13.92	-13.97	/	<=8.00	Pass
802.11g	SISO	2412	/	/	-16.44	-15.53	/	<=8.00	Pass
		2437	/	/	-15.82	-15.78	/	<=8.00	Pass
		2462	/	/	-15.47	-15.39	/	<=8.00	Pass
802.11n (HT20)	MIMO	2412	/	/	-18.79	-18.84	-15.88	<=5.99	Pass
		2437	/	/	-18.17	-18.40	-15.73	<=5.99	Pass
		2462	/	/	-18.38	-19.35	-15.94	<=5.99	Pass
802.11n (HT40)	MIMO	2422	/	/	-18.47	-19.41	-17.30	<=5.99	Pass
		2437	/	/	-19.43	-19.73	-18.13	<=5.99	Pass
		2452	/	/	-19.28	-18.73	-17.89	<=5.99	Pass

Note1: Antenna Gain: 1: 5.00dBi; 2: 5.00dBi;

4.1.2 Test Graph

