

### SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Page: 1 of 53

# Appendix A for SHCR220100010101

# 1. Duty Cycle

### 1.1 Ant1

### 1.1.1 Test Result

Ant1							
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Wiede	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
		2412	12.410	12.570	98.73	0.06	0.95
802.11b	SISO	2437	12.417	12.543	99.00	0.04	0.66
		2462	12.417	12.580	98.70	0.06	0.87
	SISO	2412	2.064	2.226	92.72	0.33	3.09
802.11g		2437	2.060	2.217	92.92	0.32	5.16
		2462	2.064	2.217	93.10	0.31	4.39
802.11n	SISO	2412	1.920	2.091	91.82	0.37	5.46
(HT20)		2437	1.919	2.091	91.77	0.37	5.49
(11120)		2462	1.920	2.073	92.62	0.33	4.65
802.11n (HT40)	SISO	2422	0.945	1.115	84.75	0.72	8.22
		2437	0.944	1.115	84.66	0.72	10.80
		2452	0.944	1.115	84.66	0.72	8.25



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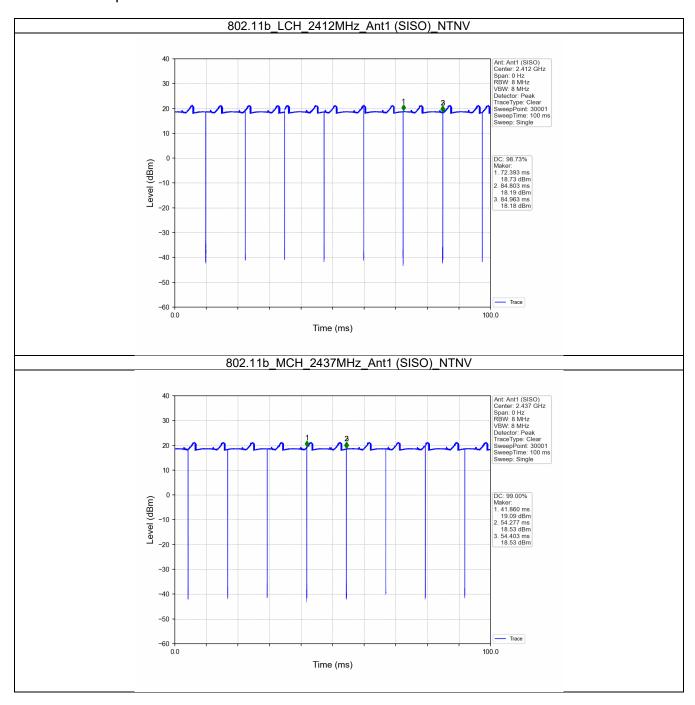
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Page: 2 of 53

### 1.1.2 Test Graph





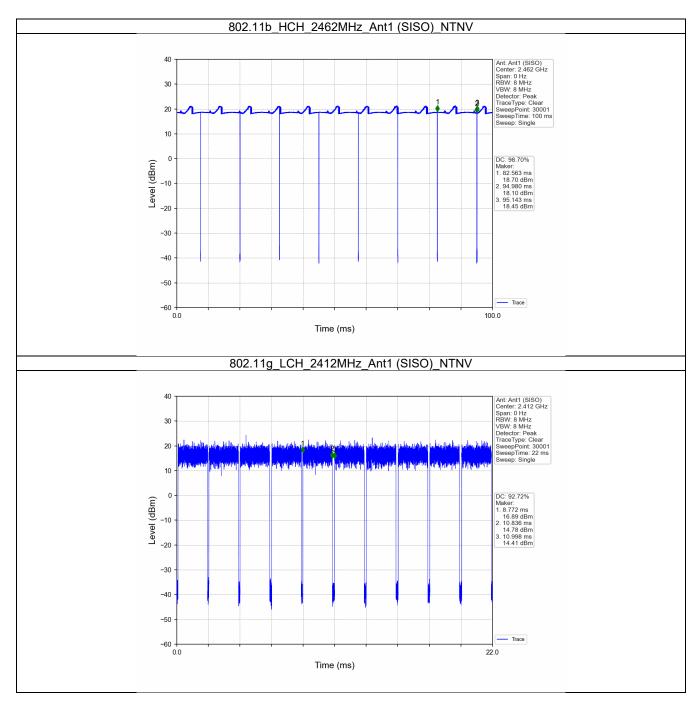
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Page: 3 of 53





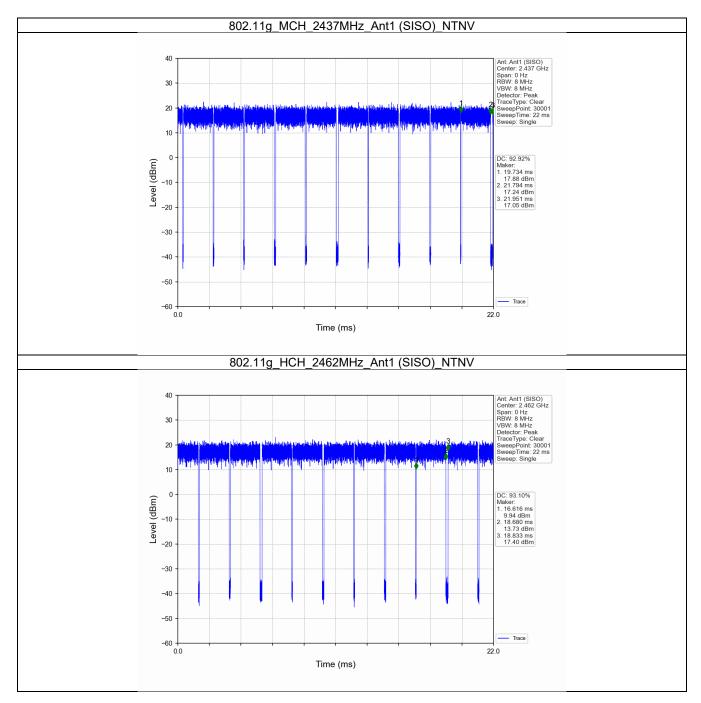
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Page: 4 of 53





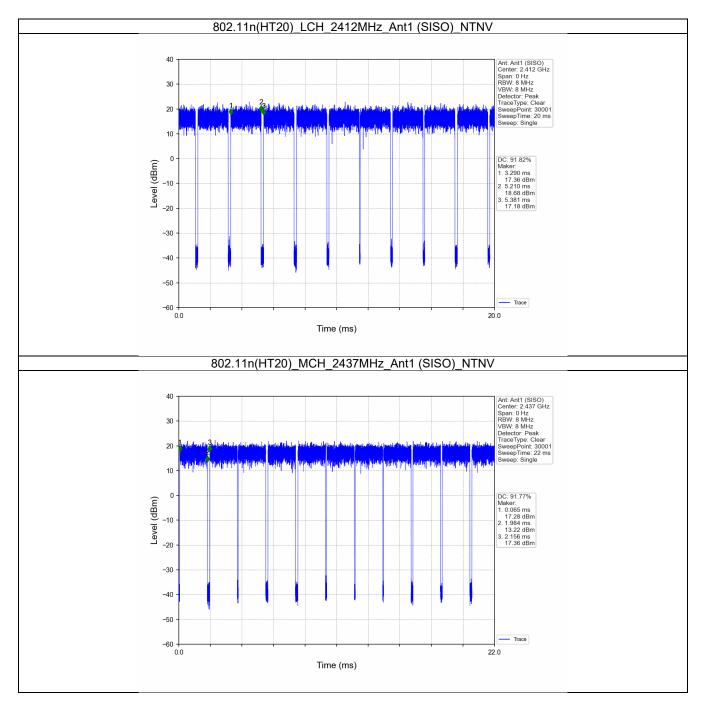
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Page: 5 of 53





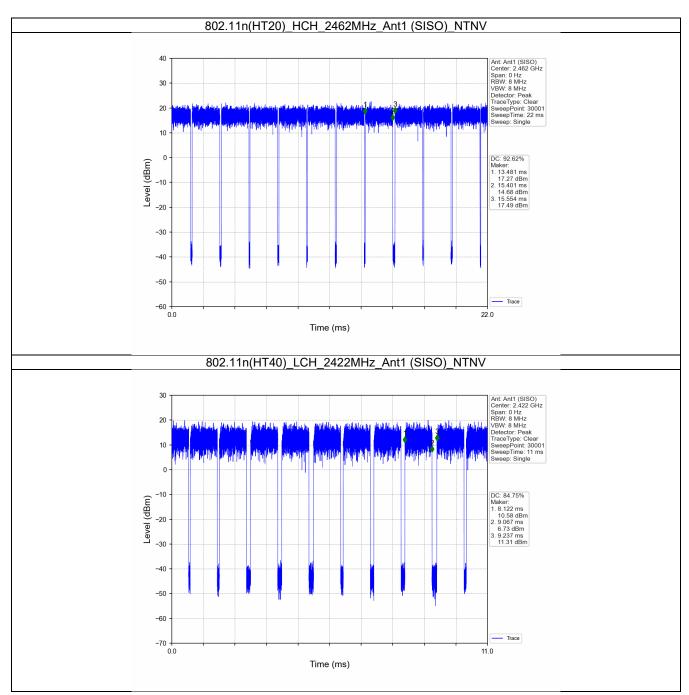
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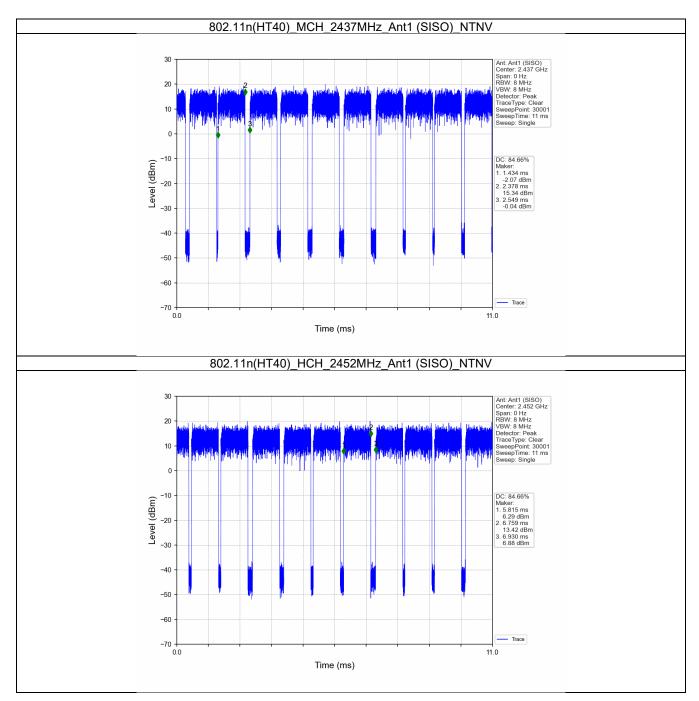
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Page: 8 of 53

# 2. Bandwidth

#### 2.1 OBW

### 2.1.1 Test Result

Mada	TX	Frequency	A 4	99% Occupied Bandwidth (MHz)	\/- ==d: -4
Mode	Type	(MHz) Ant		Result	Verdict
		2412	1	15.152	Pass
802.11b	SISO	2437	1	15.125	Pass
		2462	1	15.194	Pass
		2412		18.189	Pass
802.11g	SISO	2437	1	18.619	Pass
		2462	1	19.628	Pass
000 11n	SISO	2412	1	18.771	Pass
802.11n		2437	1	20.690	Pass
(HT20)		2462	1	19.556	Pass
000 11n		2422	1	36.542	Pass
802.11n	SISO	2437	1	36.552	Pass
(HT40)		2452	1	36.952	Pass



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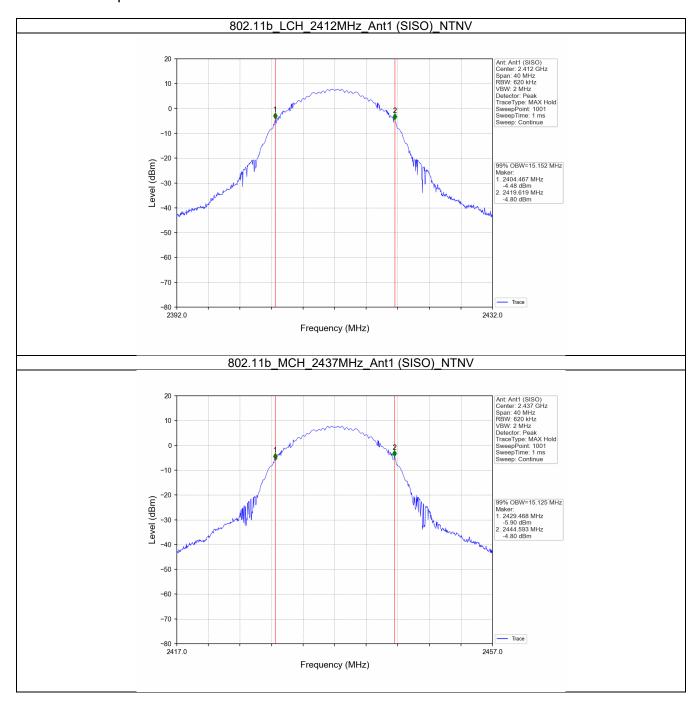
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9 of 53 Page:

### 2.1.2 Test Graph





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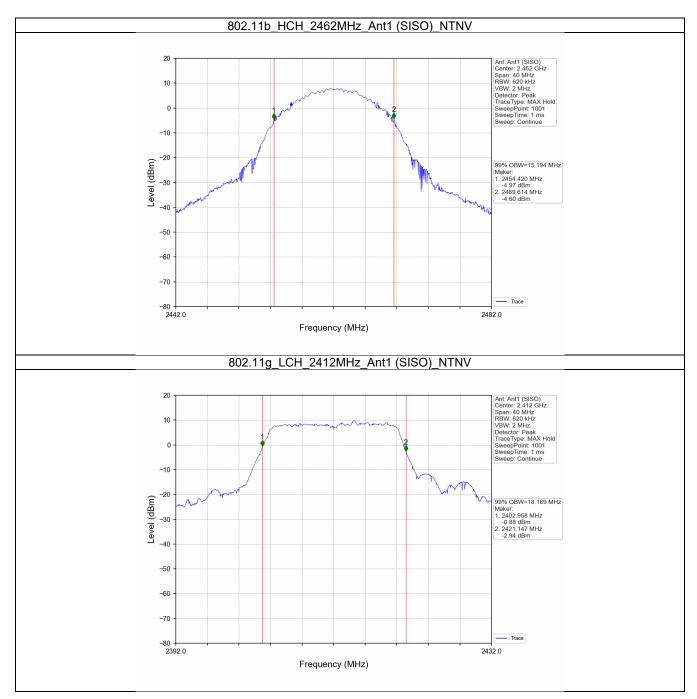
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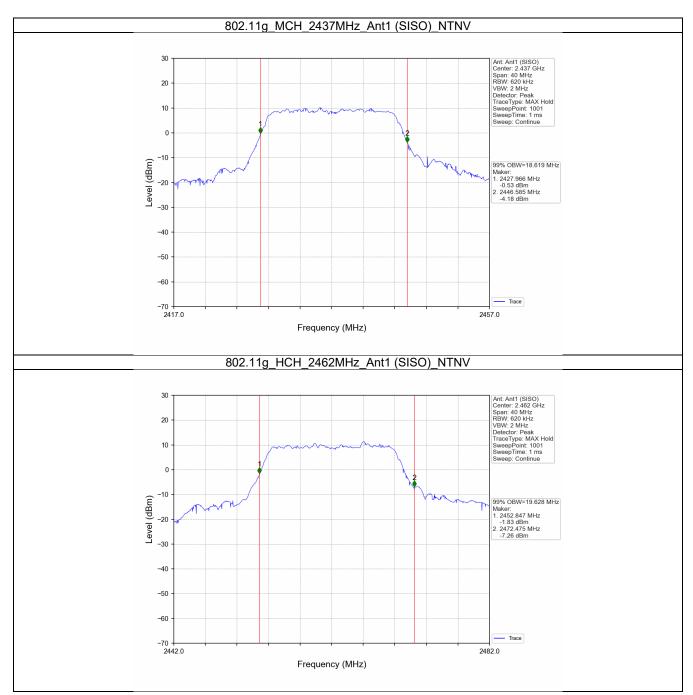
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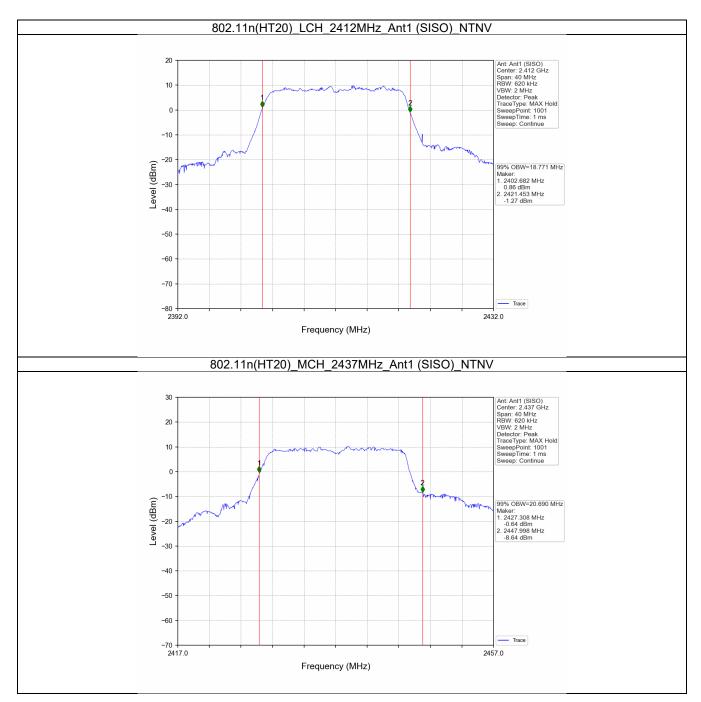
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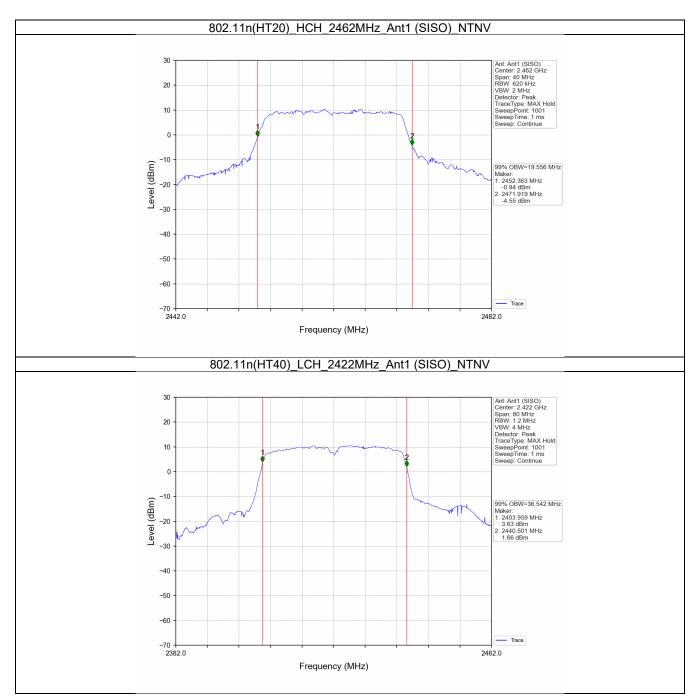
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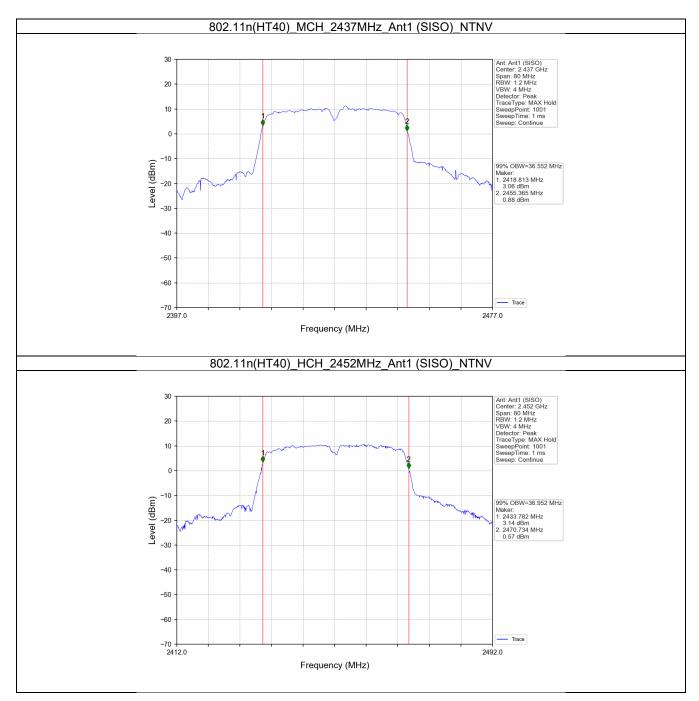
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Page: 15 of 53

#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX	Frequency	A 4	6dB Bandw	\/!:4	
	Type	(MHz)	Ant	Result	Limit	Verdict
	SISO	2412	1	10.071	>=0.5	Pass
802.11b		2437	1	10.068	>=0.5	Pass
		2462	1	10.066	>=0.5	Pass
802.11g	SISO	2412	1	16.387	>=0.5	Pass
		2437	1	16.386	>=0.5	Pass
		2462	1	16.377	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.575	>=0.5	Pass
		2437	1	17.579	>=0.5	Pass
		2462	1	17.581	>=0.5	Pass
000 44	SISO	2422	1	35.179	>=0.5	Pass
802.11n		2437	1	35.171	>=0.5	Pass
(HT40)		2452	1	35.172	>=0.5	Pass



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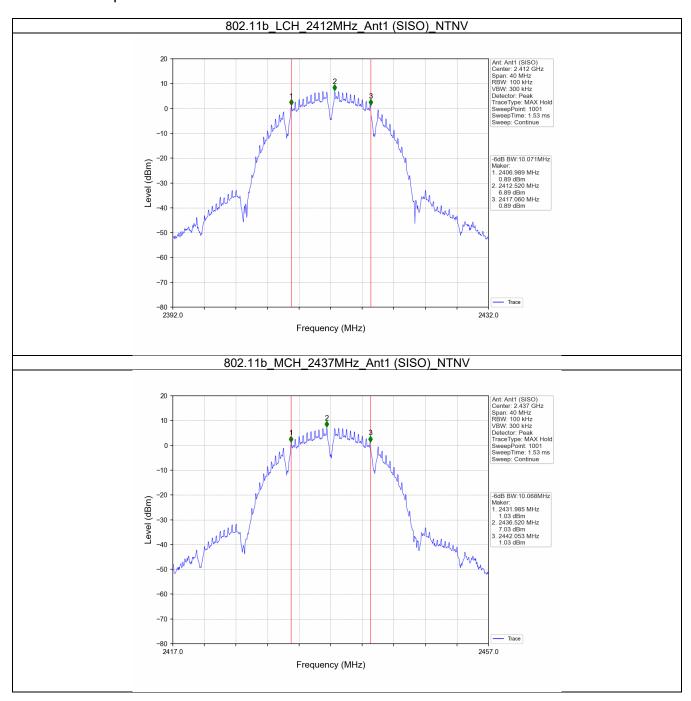
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Page: 16 of 53

### 2.2.2 Test Graph





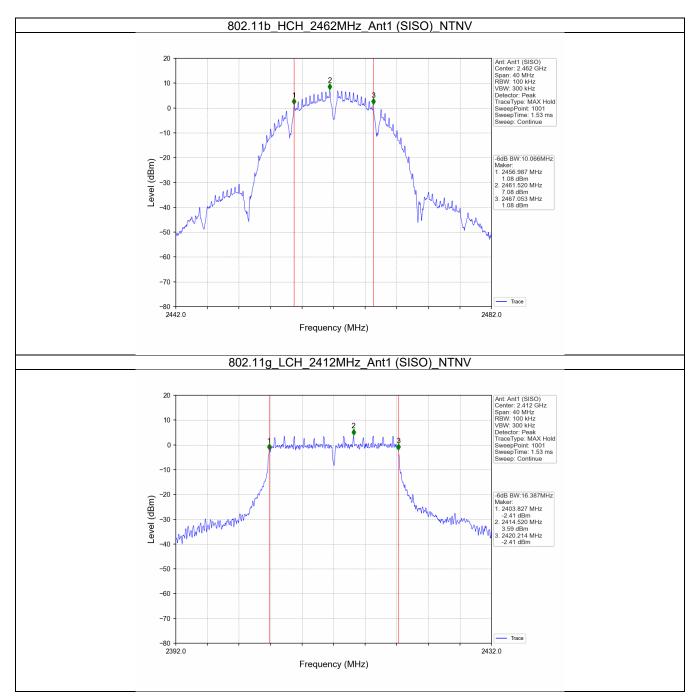
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Page: 17 of 53





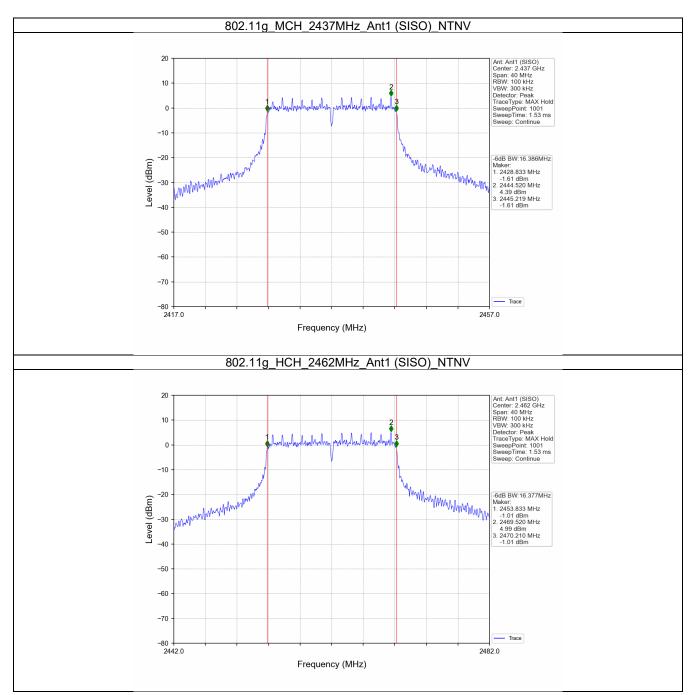
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Page: 18 of 53





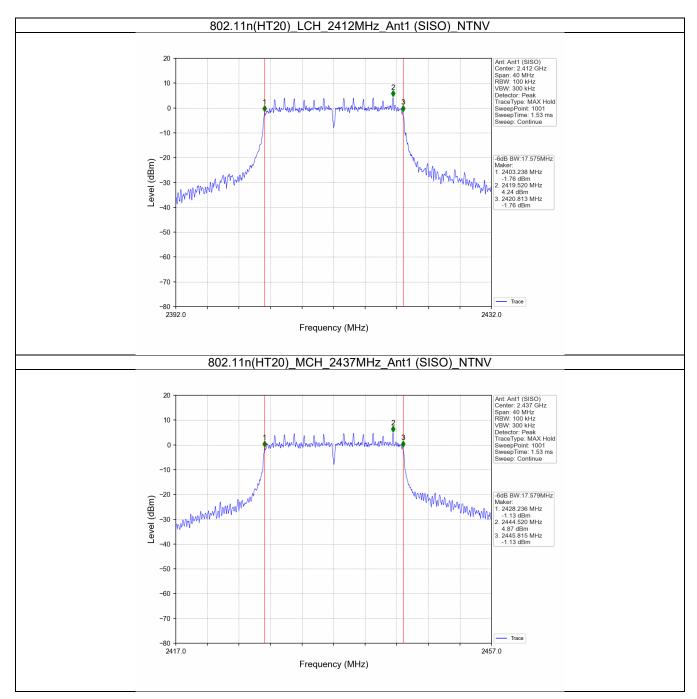
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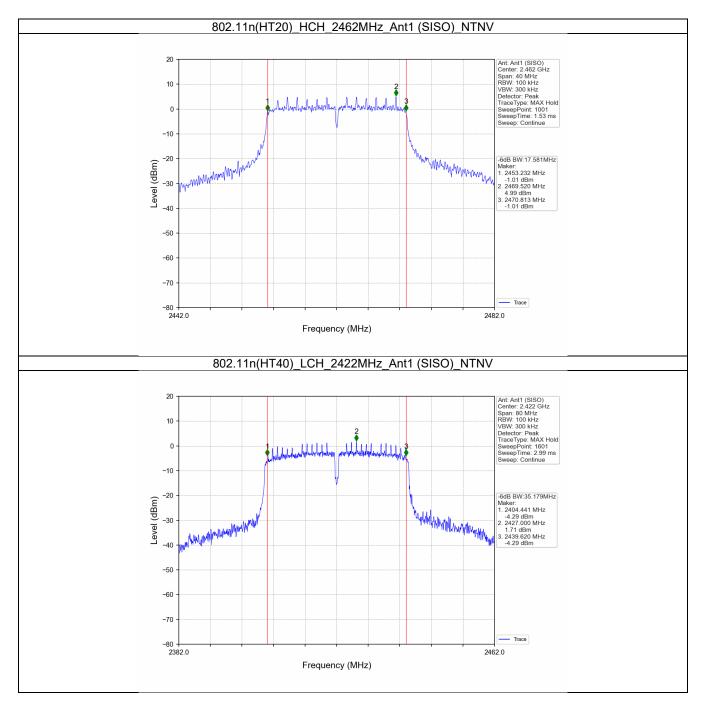
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Page: 20 of 53





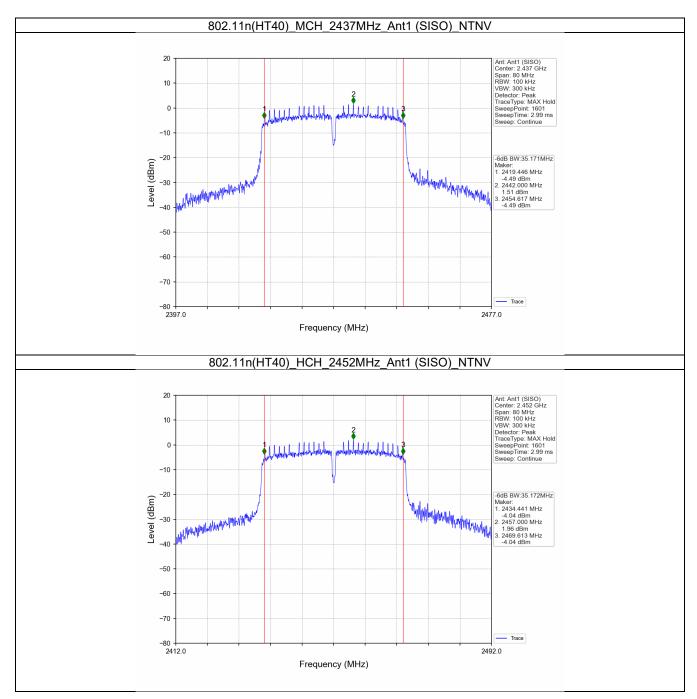
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Page: 22 of 53

# 3. Maximum Conducted Output Power

### 3.1 Power

### 3.1.1 Test Result

Mada	TX	Frequency	Maximum Average Conduc	\/a wali a t		
Mode	Type	(MHz)	Ant1	Limit	Verdict	
	SISO	2412	15.68	<=30	Pass	
802.11b		2437	15.65	<=30	Pass	
		2462	15.73	<=30	Pass	
		2412	14.97	<=30	Pass	
802.11g	SISO	2437	15.53	<=30	Pass	
		2462	16.03	<=30	Pass	
802.11n (HT20)	SISO	2412	15.37	<=30	Pass	
		2437	15.94	<=30	Pass	
		2462	16.03	<=30	Pass	
802.11n (HT40)	SISO	2422	15.27	<=30	Pass	
		2437	15.12	<=30	Pass	
		2452	15.43	<=30	Pass	



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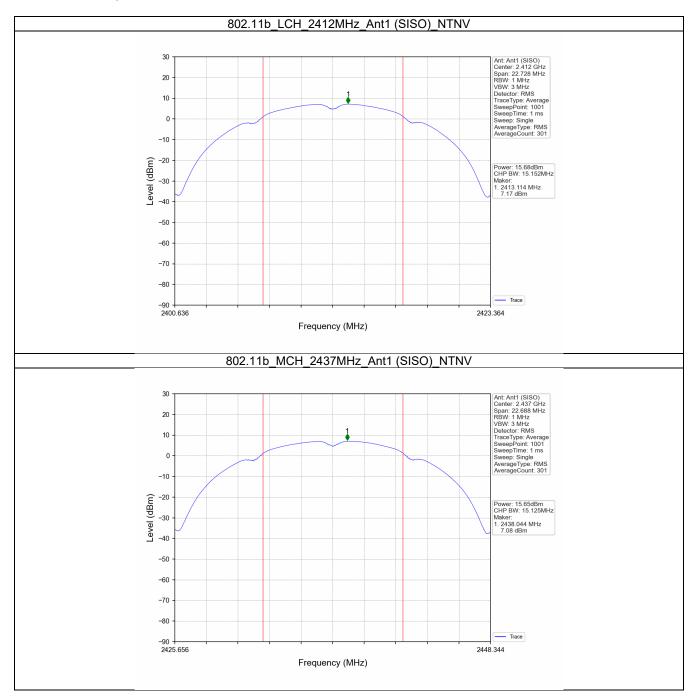
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Page: 23 of 53

### 3.1.2 Test Graph





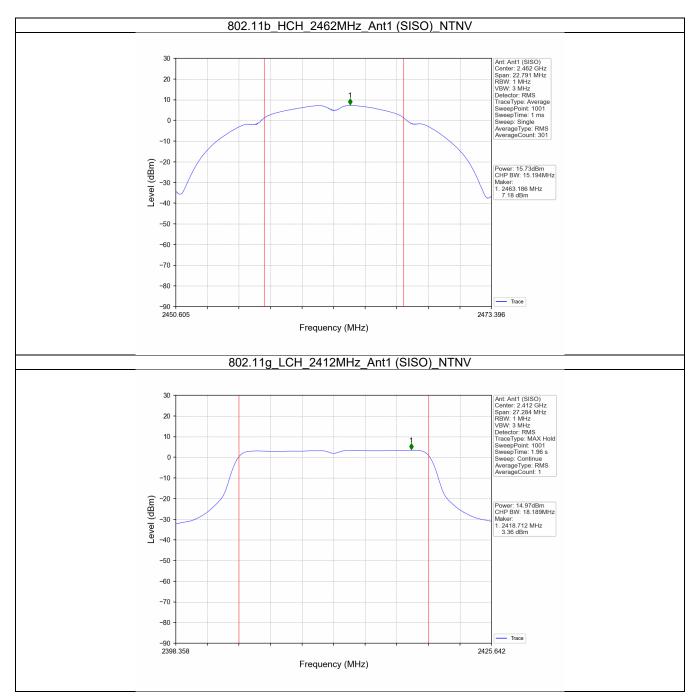
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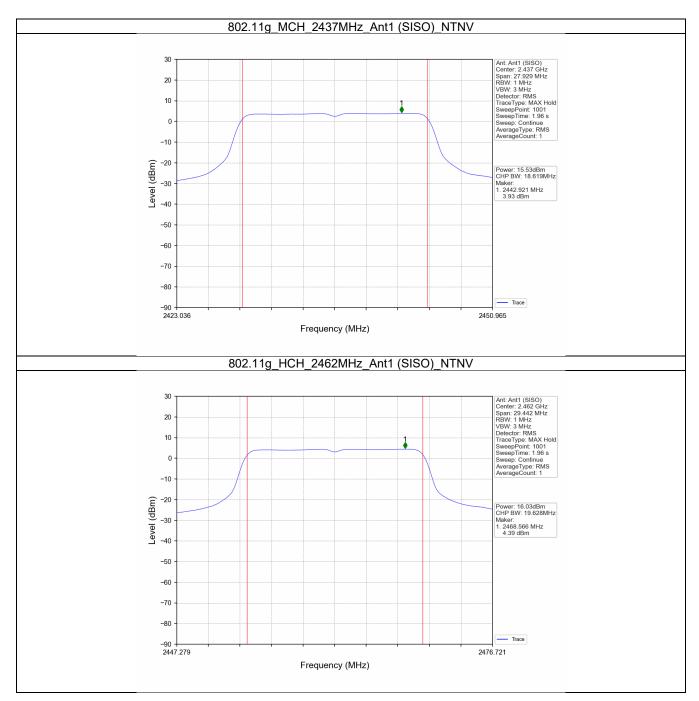
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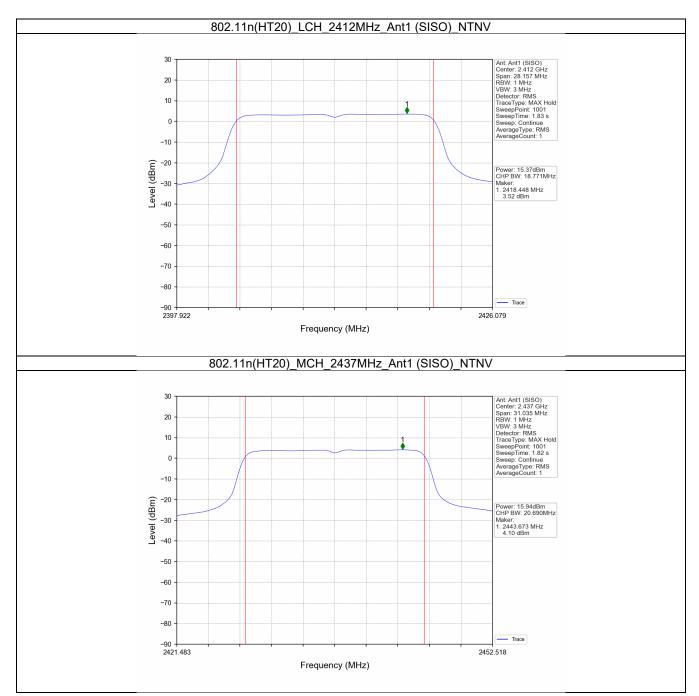
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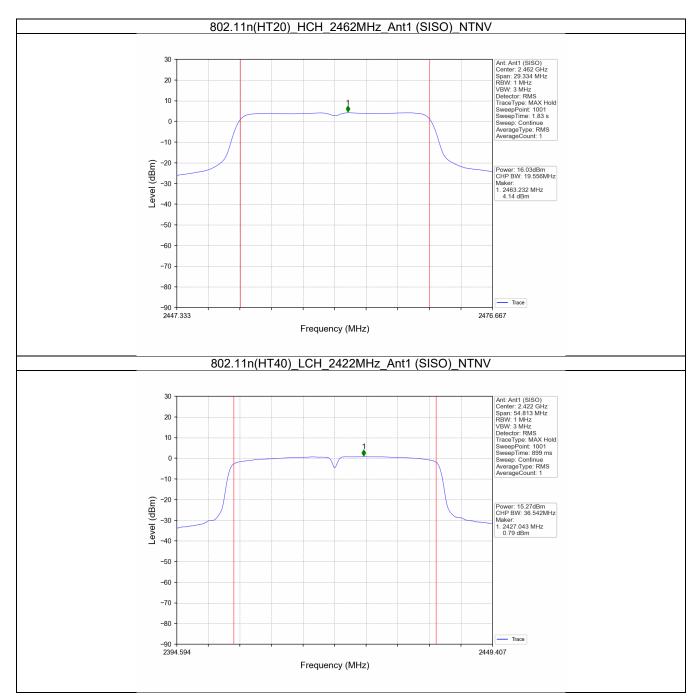
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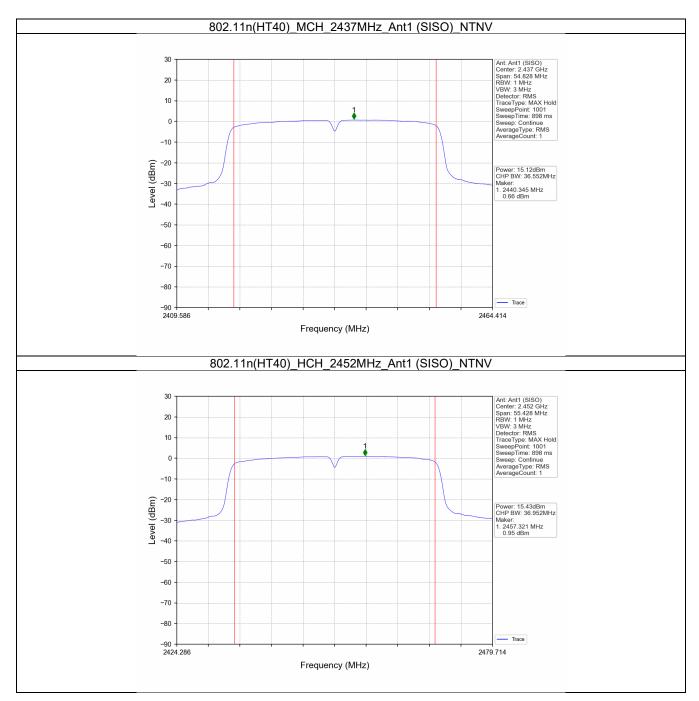
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Page: 29 of 53

# 4. Maximum Power Spectral Density

### 4.1 PSD

### 4.1.1 Test Result

Mada	TX	Frequency	Maximum PSI	\	
Mode	Type	(MHz)	Ant1	Limit	Verdict
	SISO	2412	-7.63	<=8	Pass
802.11b		2437	-6.72	<=8	Pass
		2462	-7.40	<=8	Pass
802.11g	SISO	2412	-10.59	<=8	Pass
		2437	-9.15	<=8	Pass
		2462	-8.79	<=8	Pass
802.11n (HT20)	SISO	2412	-10.74	<=8	Pass
		2437	-10.30	<=8	Pass
		2462	-8.80	<=8	Pass
802.11n (HT40)	SISO	2422	-13.32	<=8	Pass
		2437	-11.97	<=8	Pass
		2452	-11.40	<=8	Pass



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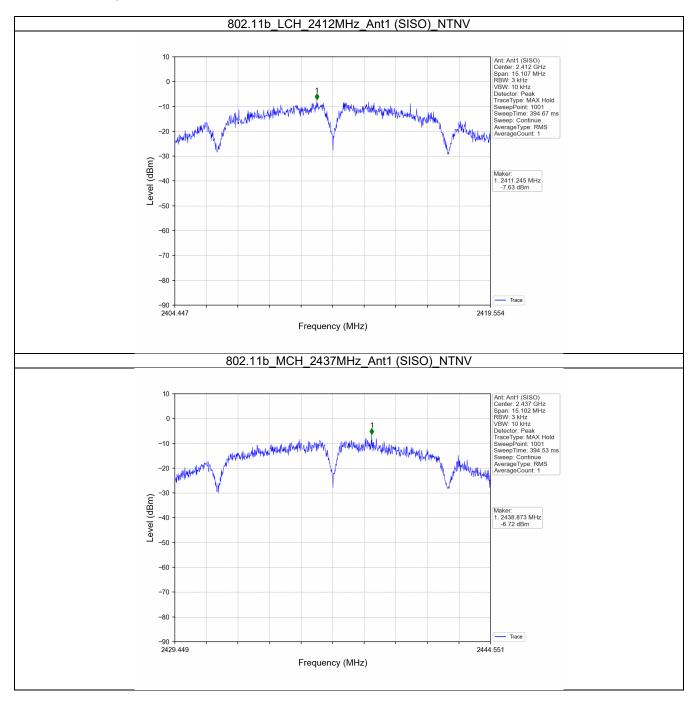
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Page: 30 of 53

### 4.1.2 Test Graph





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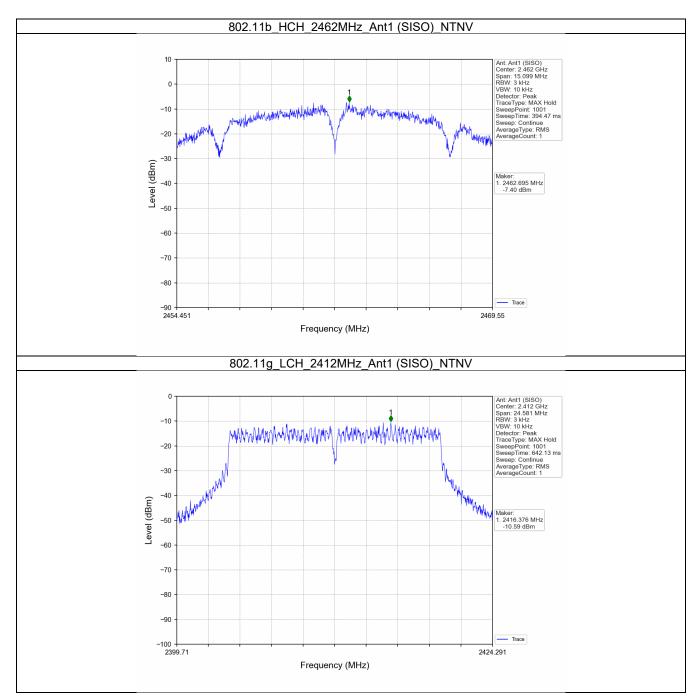
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Page: 31 of 53





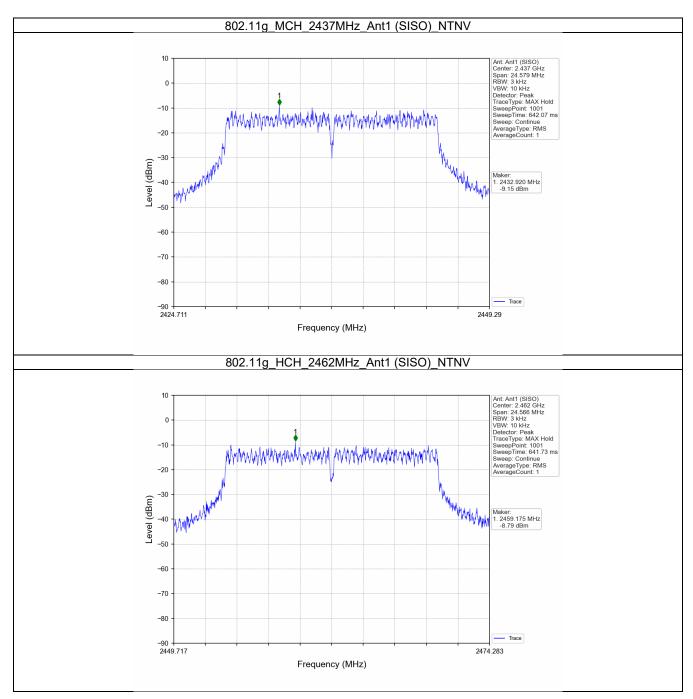
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Page: 32 of 53





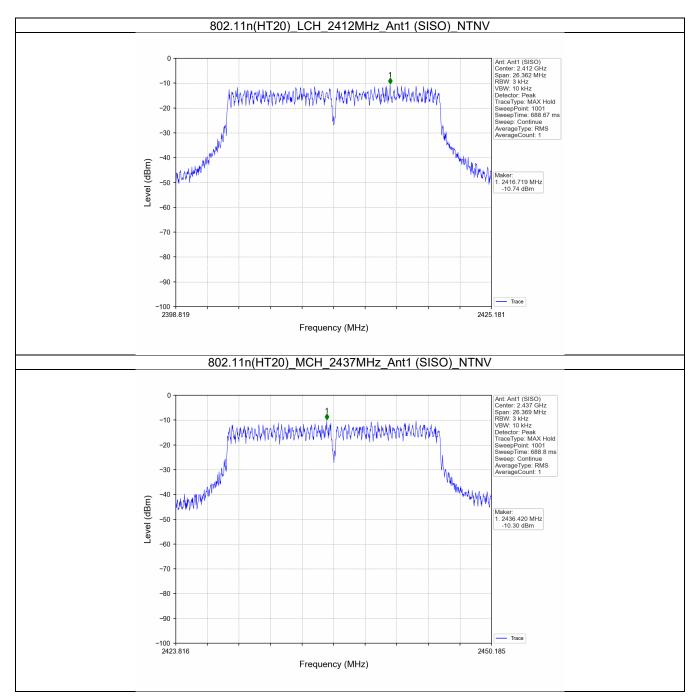
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Page: 33 of 53





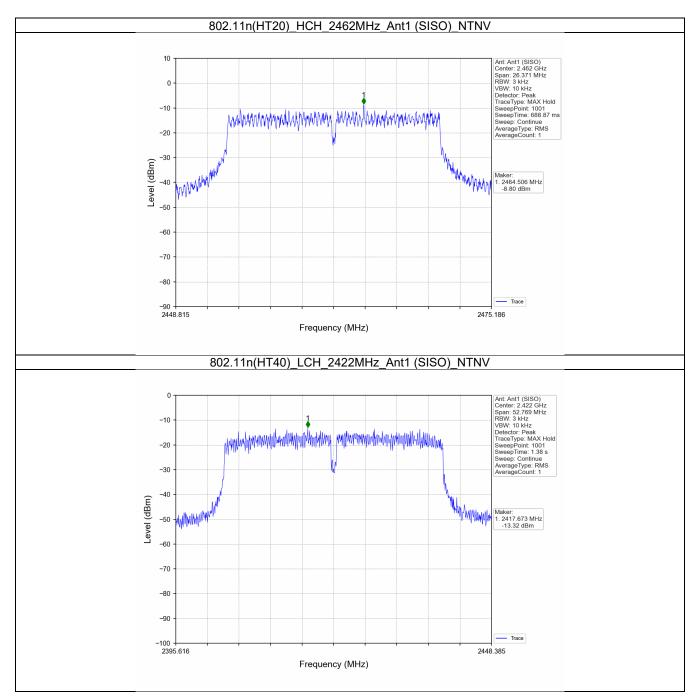
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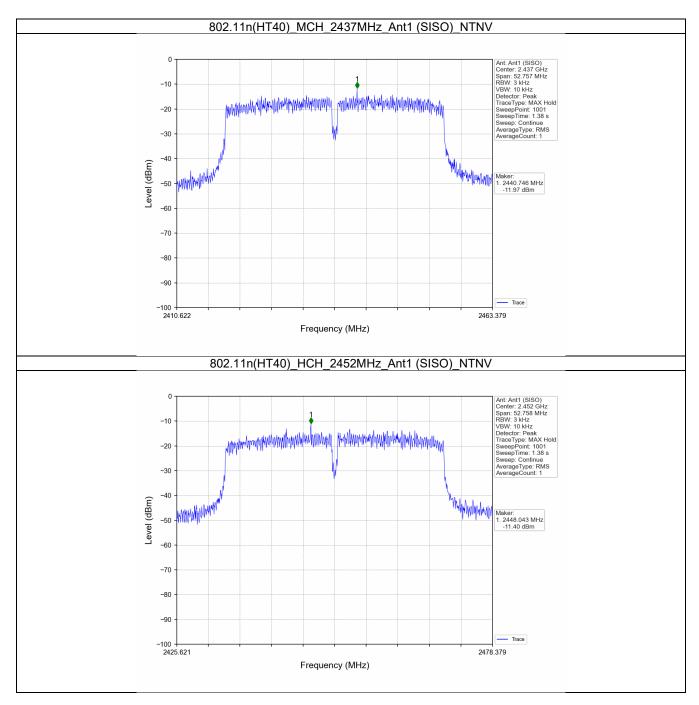
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Page: 35 of 53





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Page: 36 of 53

# 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
	• •	2412	1	6.65
802.11b	SISO	2437	1	6.63
		2462	1	7.02
	SISO	2412	1	3.73
802.11g		2437	1	4.28
		2462	1	4.87
902 11n	SISO	2412	1	4.21
802.11n (HT20)		2437	1	4.79
(П120)		2462	1	4.74
802.11n	SISO	2422	1	1.68
(HT40)		2437	1	1.53
(П140)		2452	1	1.90

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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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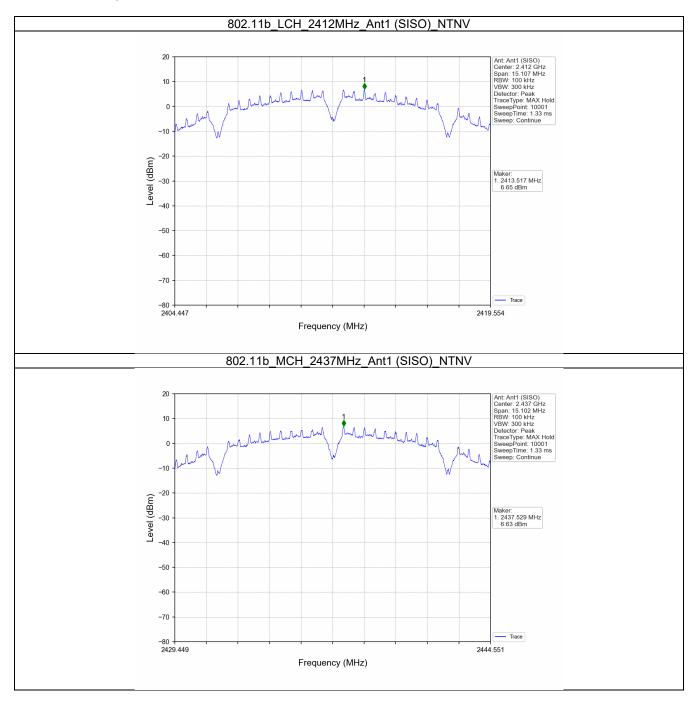
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## 5.1.2 Test Graph





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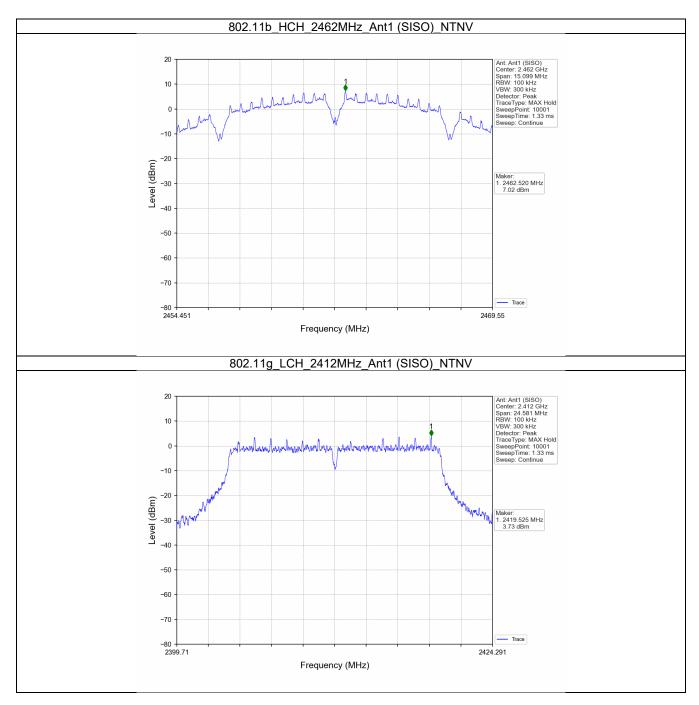
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Page: 38 of 53





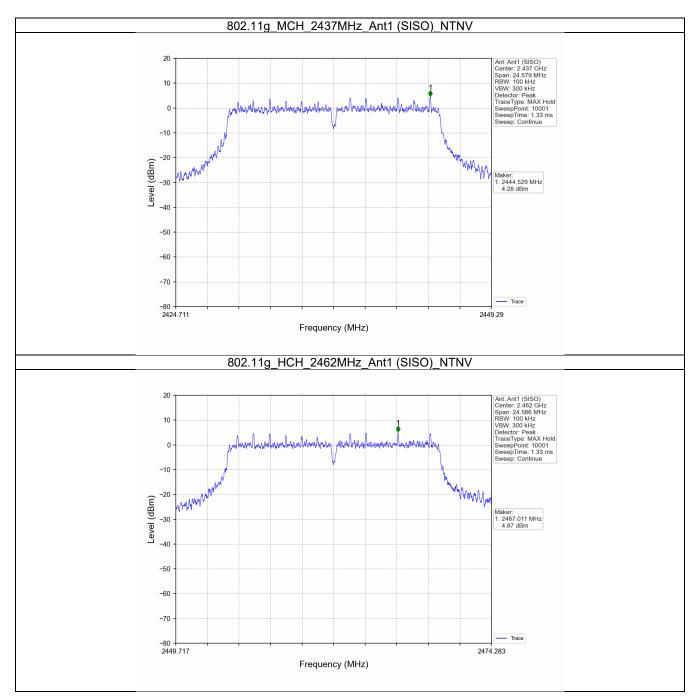
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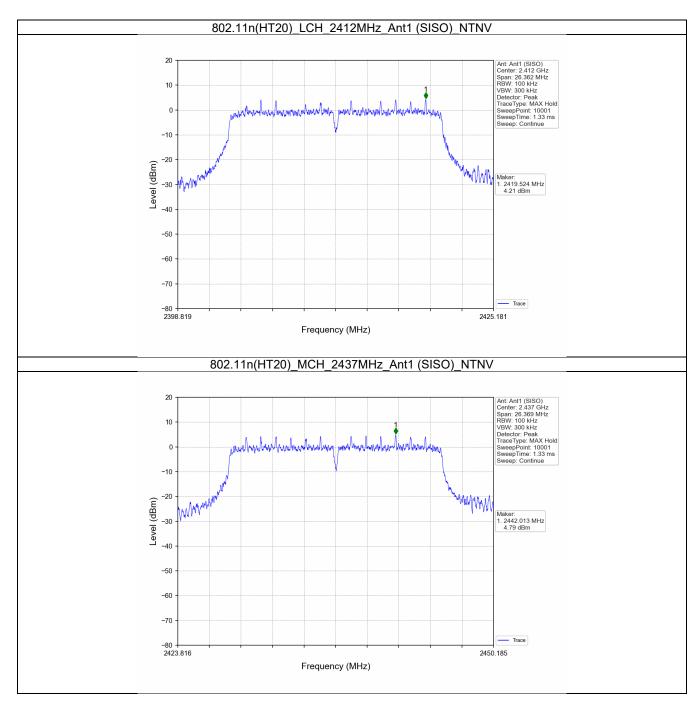
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Page: 40 of 53





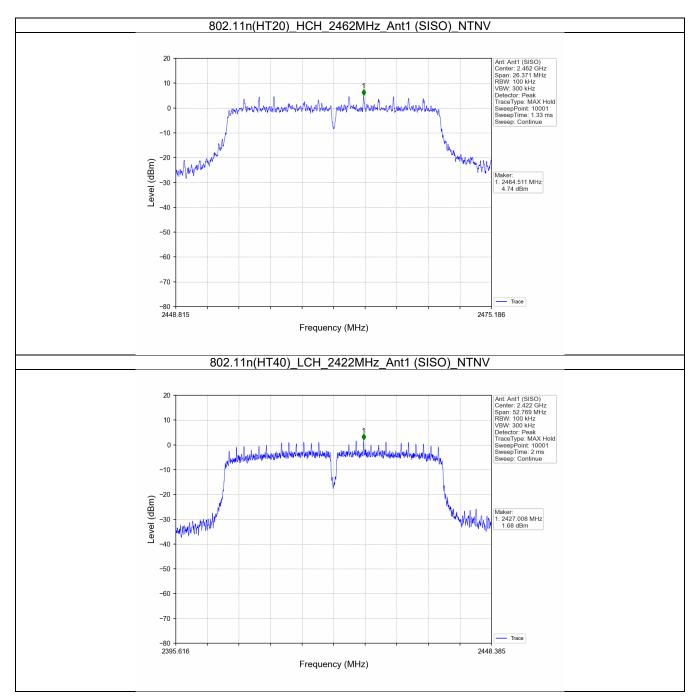
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Page: 41 of 53





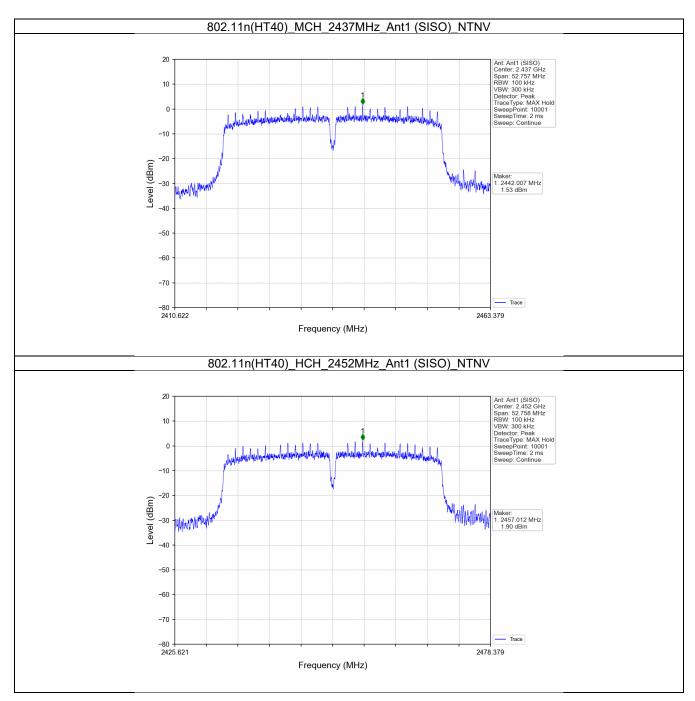
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Page: 43 of 53

## 5.2 CSE

## 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.02	-22.98	Pass
		2437	1	7.02	-22.98	Pass
		2462	1	7.02	-22.98	Pass
802.11g	SISO	2412	1	4.87	-25.13	Pass
		2437	1	4.87	-25.13	Pass
		2462	1	4.87	-25.13	Pass
802.11n (HT20)	SISO	2412	1	4.79	-25.21	Pass
		2437	1	4.79	-25.21	Pass
		2462	1	4.79	-25.21	Pass
802.11n (HT40)	SISO	2422	1	1.90	-28.10	Pass
		2437	1	1.90	-28.10	Pass
		2452	1	1.90	-28.10	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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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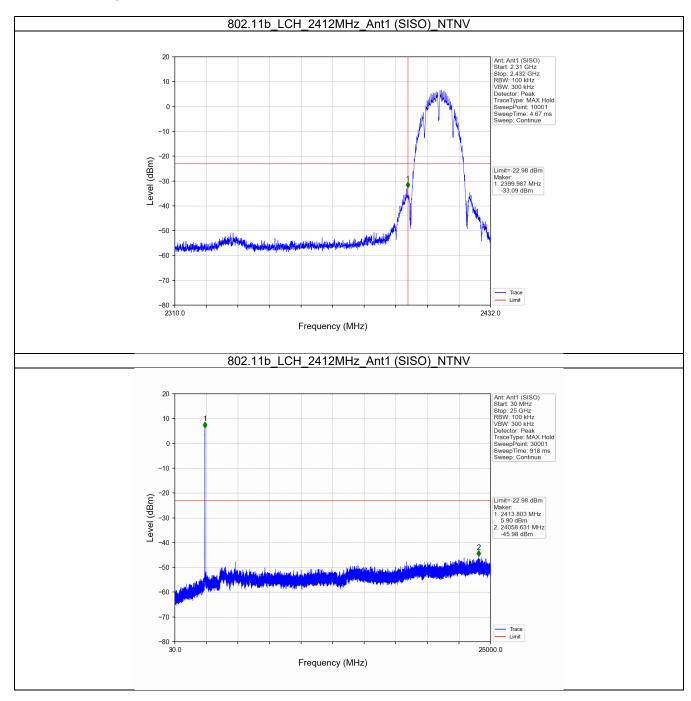
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Page: 44 of 53

## 5.2.2 Test Graph





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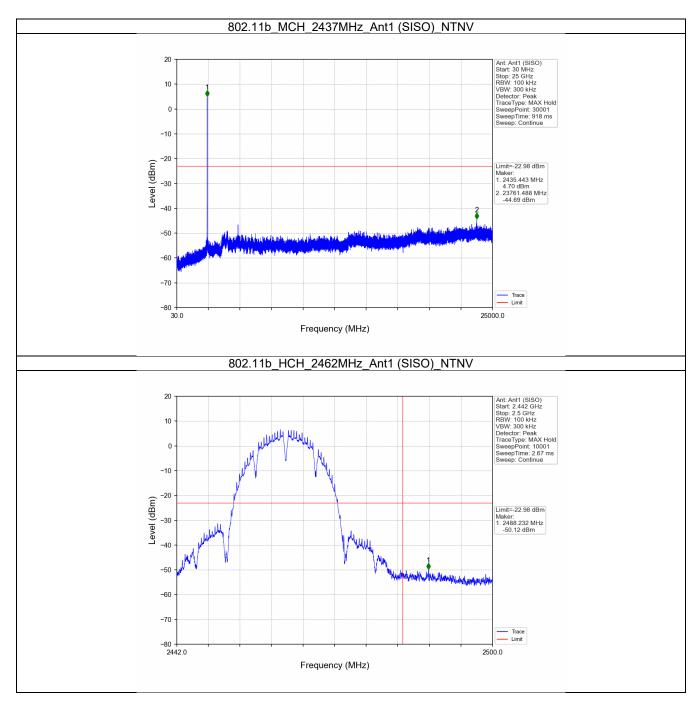
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45 of 53 Page:





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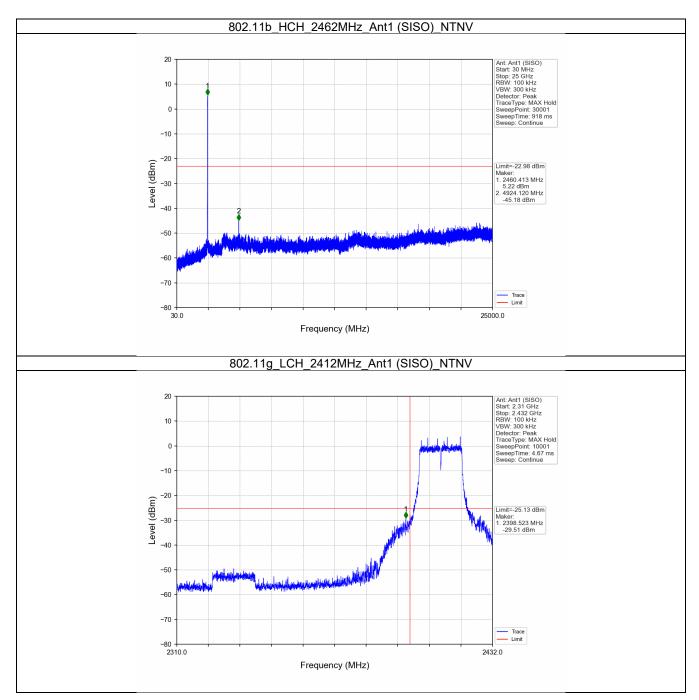
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Page: 46 of 53





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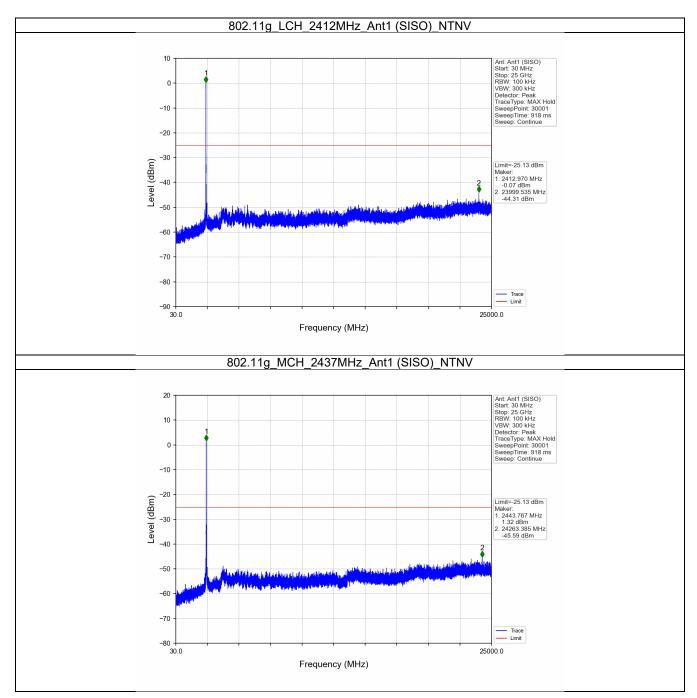
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Page: 47 of 53





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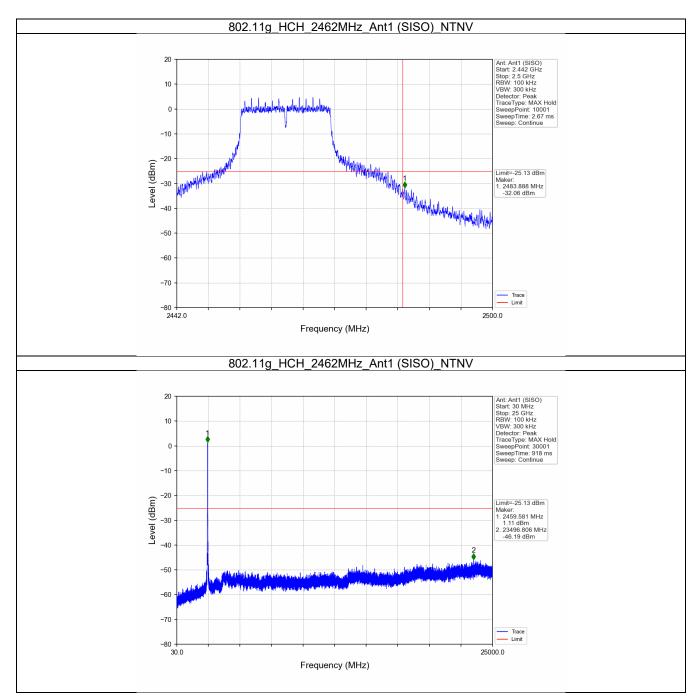
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48 of 53 Page:





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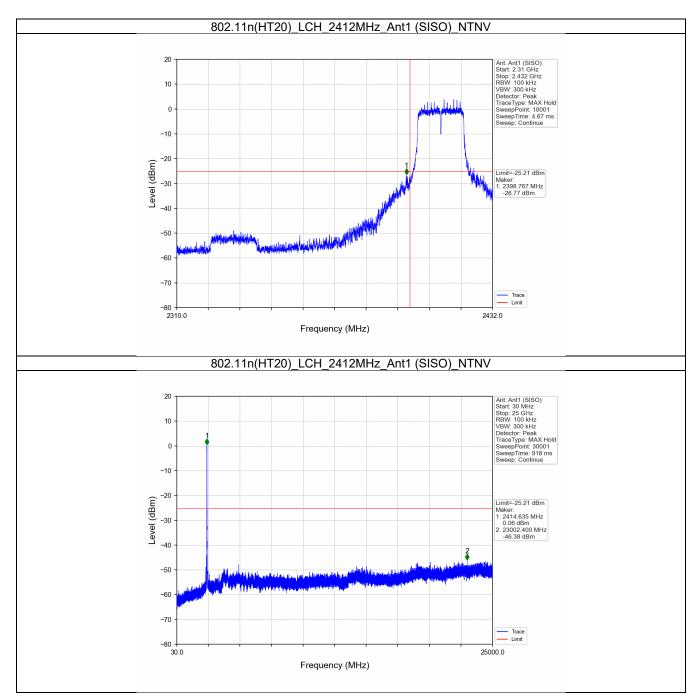
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Page: 49 of 53





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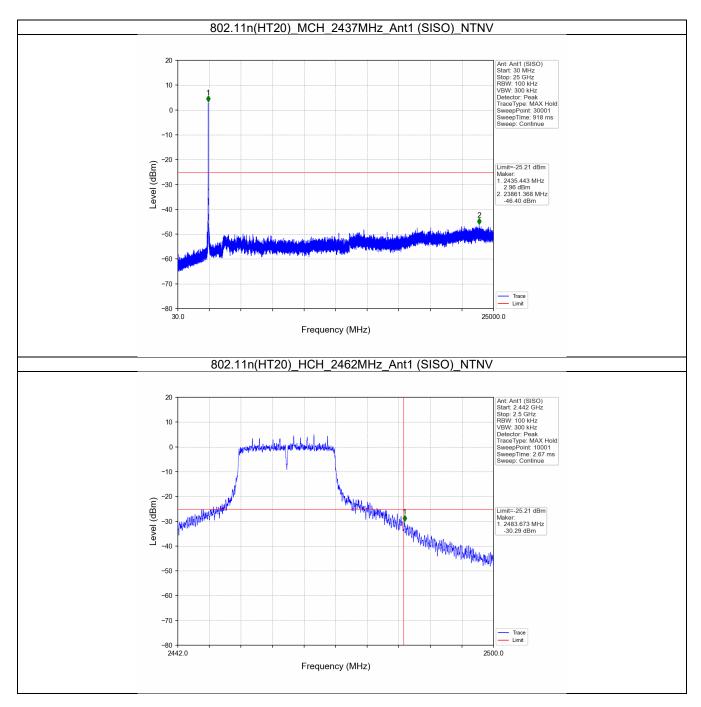
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Page: 50 of 53





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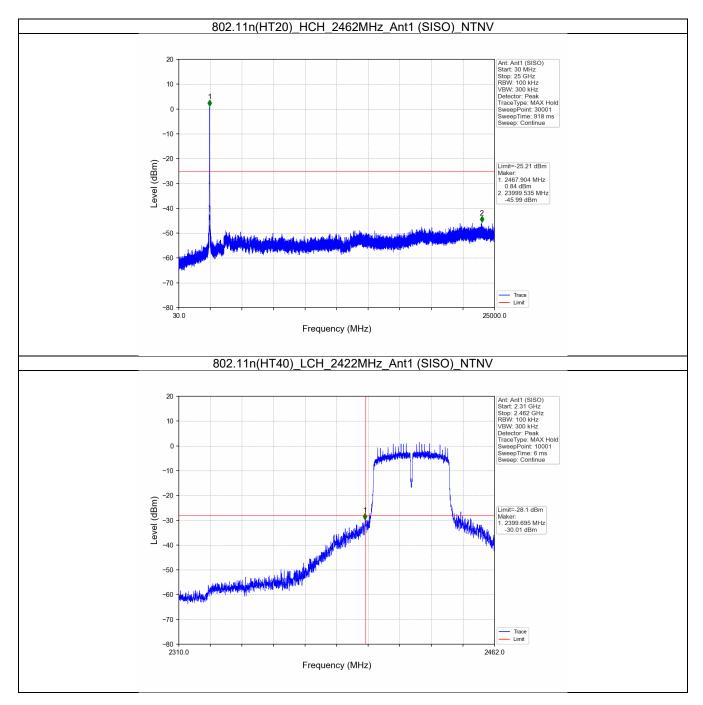
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51 of 53 Page:





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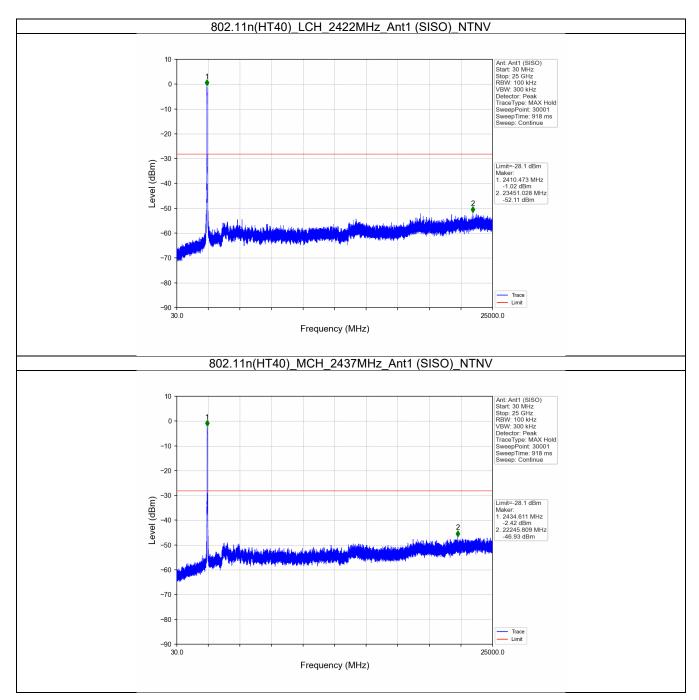
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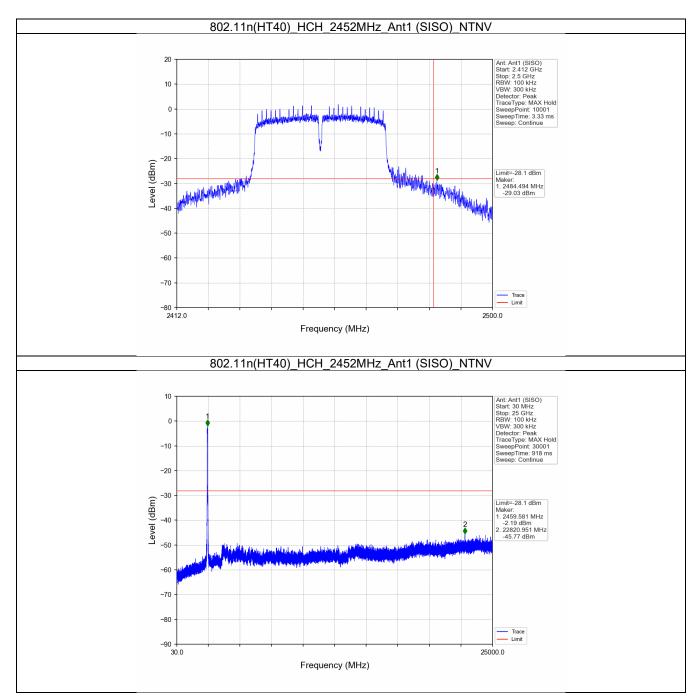
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