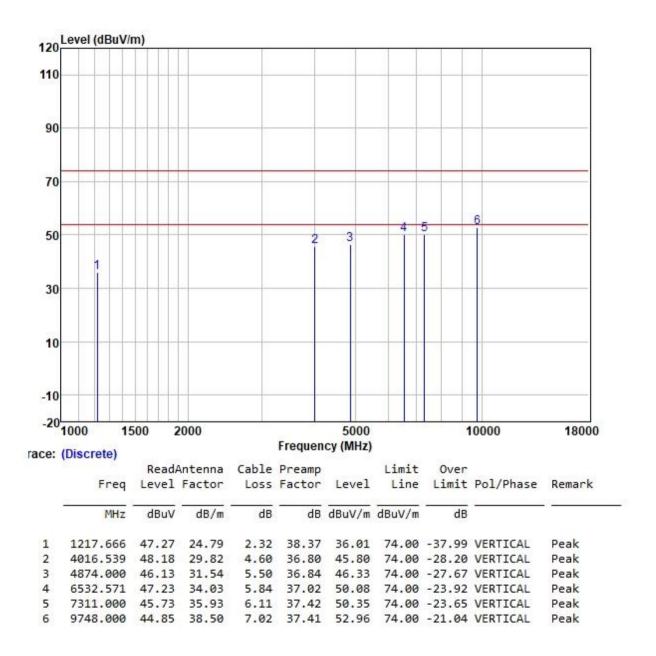


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:middle





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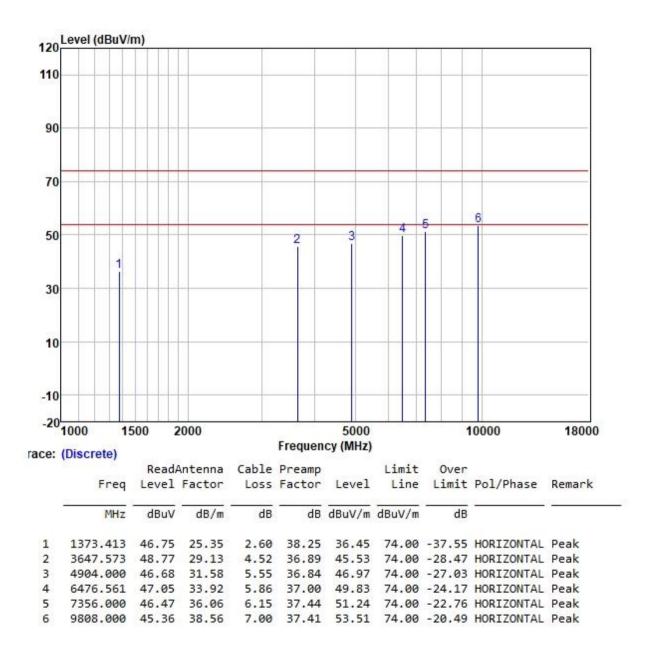
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High





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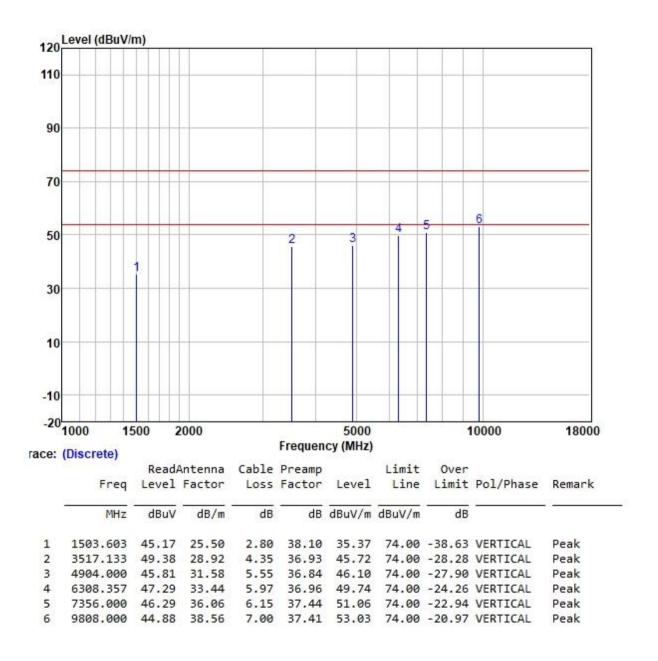
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:High







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8 Test Setup Photo

Refer to test setup photos for GZCR2108020804AT



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9 EUT Constructional Details (EUT Photos)

Refer to external and internal photos for GZCR2108020804AT



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10 Appendix

1. Bandwidth

1.1 6dB BW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandv	Verdict	
Mode						Result	Limit	verdict
	SISO	2412	/	/	1	8.11	>=0.5	Pass
802.11b		2437	/	/	1	8.09	>=0.5	Pass
		2462	/	/	1	8.11	>=0.5	Pass
		2412	/	/	1	15.75	>=0.5	Pass
802.11g	SISO	2437	/	/	1	16.06	>=0.5	Pass
		2462	/	/	1	16.08	>=0.5	Pass
202.11	MIMO	2412	/	/	1	15.988	>=0.5	Pass
802.11n (HT20)		2437	/	/	1	16.952	>=0.5	Pass
(11120)		2462	/	/	1	17.162	>=0.5	Pass
000.44	МІМО	2422	/	/	1	35.030	>=0.5	Pass
802.11n (HT40)		2437	/	/	1	35.742	>=0.5	Pass
(11140)		2452	/	/	1	35.760	>=0.5	Pass
202.44	МІМО	2412	RU242	Left	1	18.021	>=0.5	Pass
802.11ax (HEW20)		2437	RU242	Left	1	18.615	>=0.5	Pass
		2462	RU242	Left	1	18.846	>=0.5	Pass
000.44	MIMO	2422	RU484	Left	1	35.673	>=0.5	Pass
802.11ax (HEW40)		2437	RU484	Left	1	36.430	>=0.5	Pass
(1127740)		2452	RU484	Left	1	37.666	>=0.5	Pass



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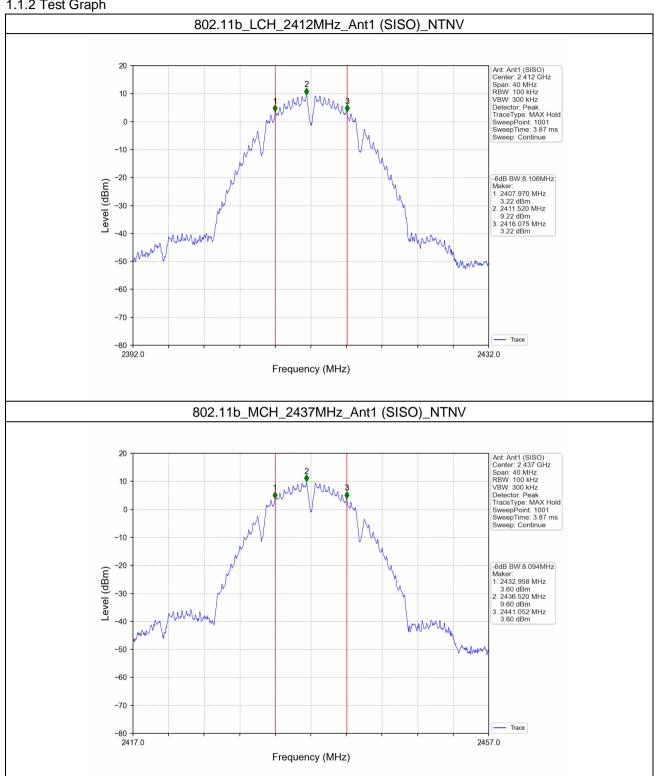
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1.1.2 Test Graph

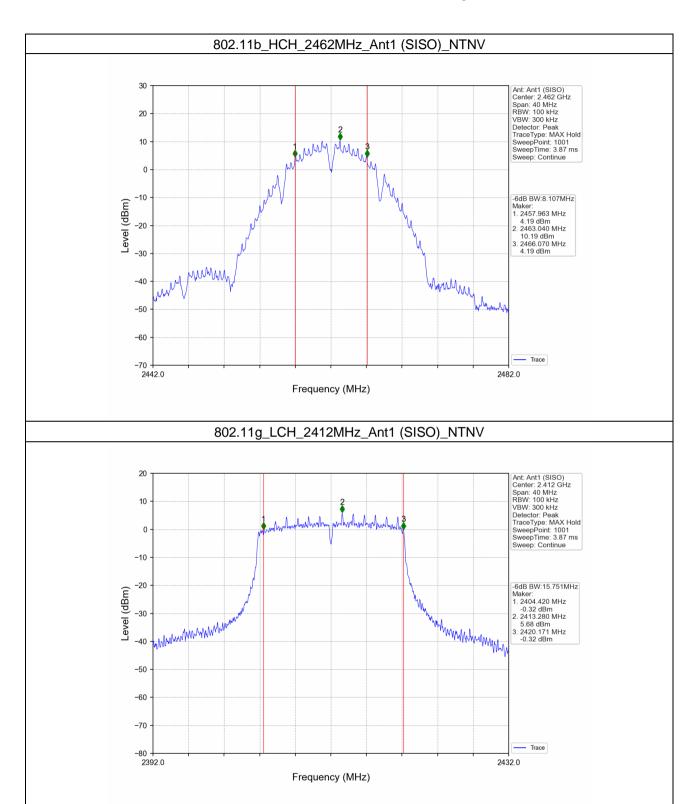






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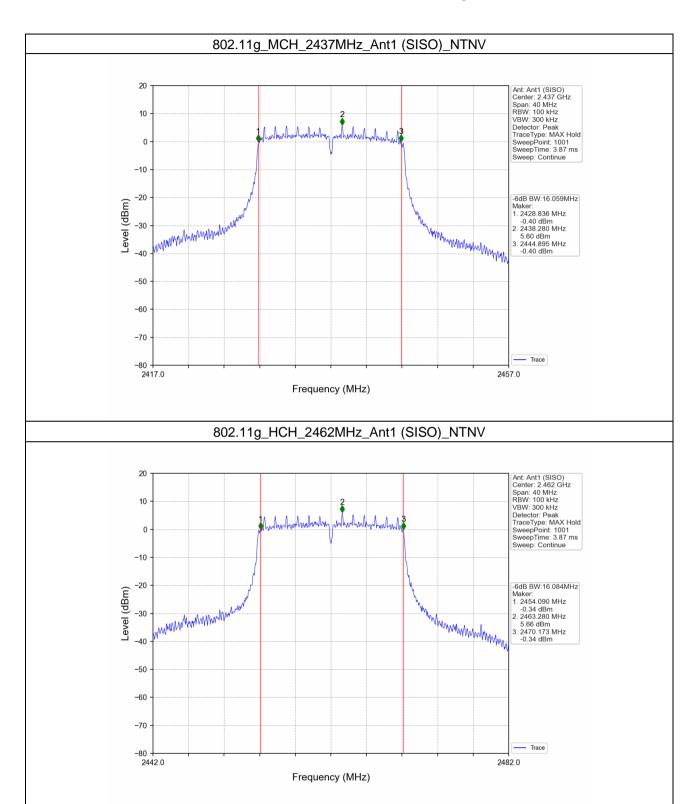






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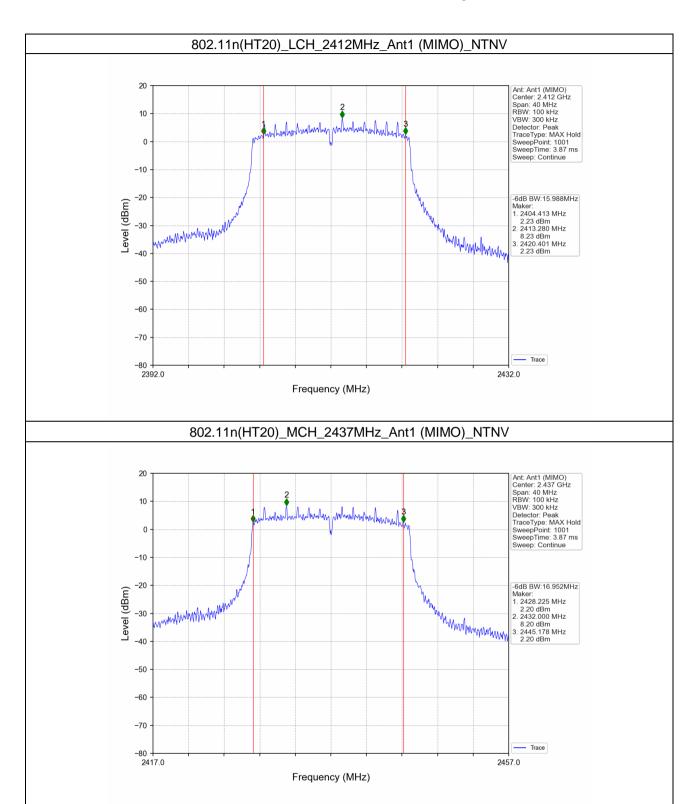






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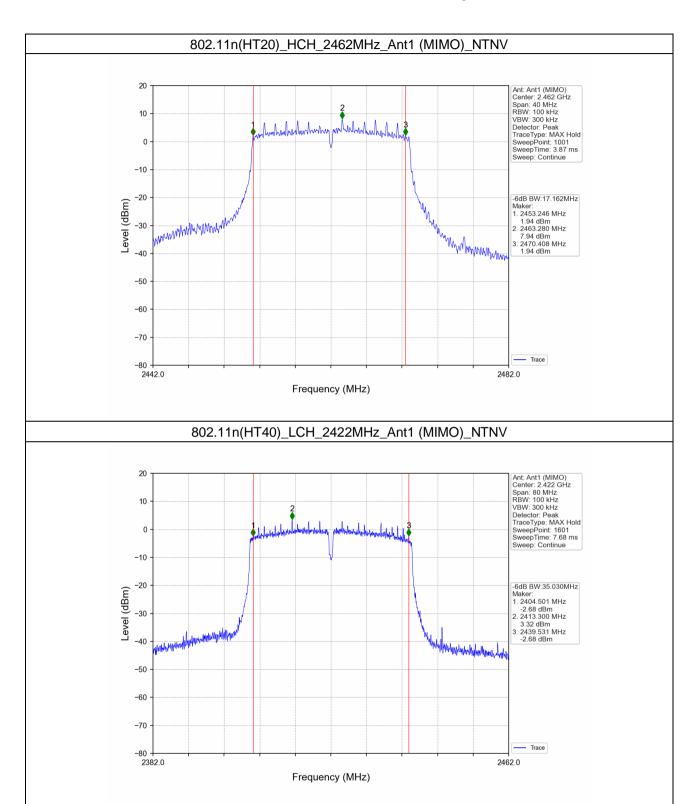
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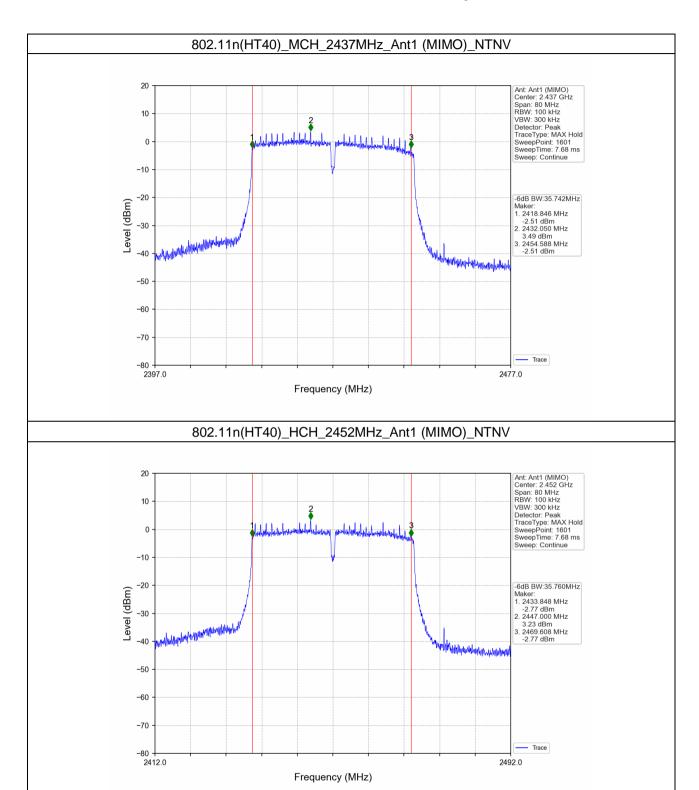






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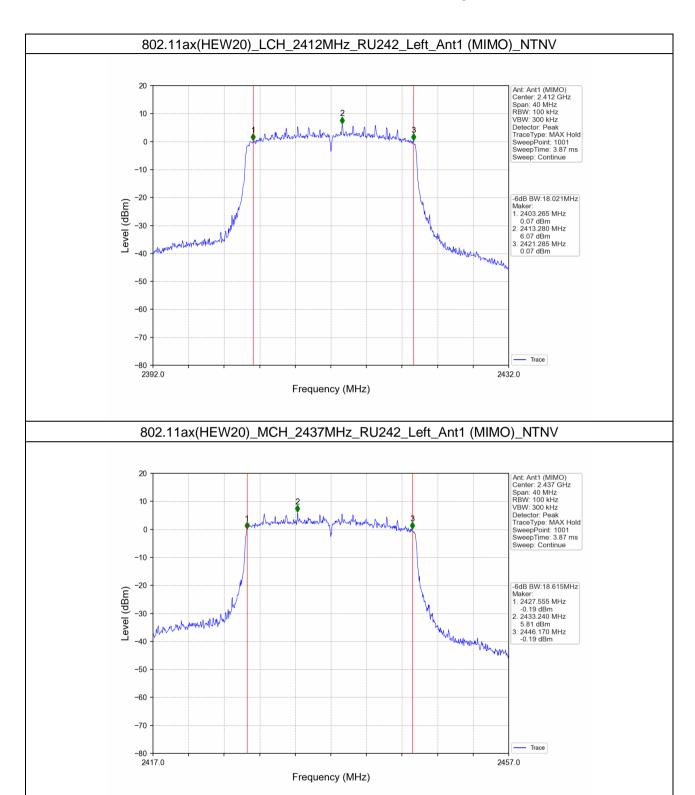






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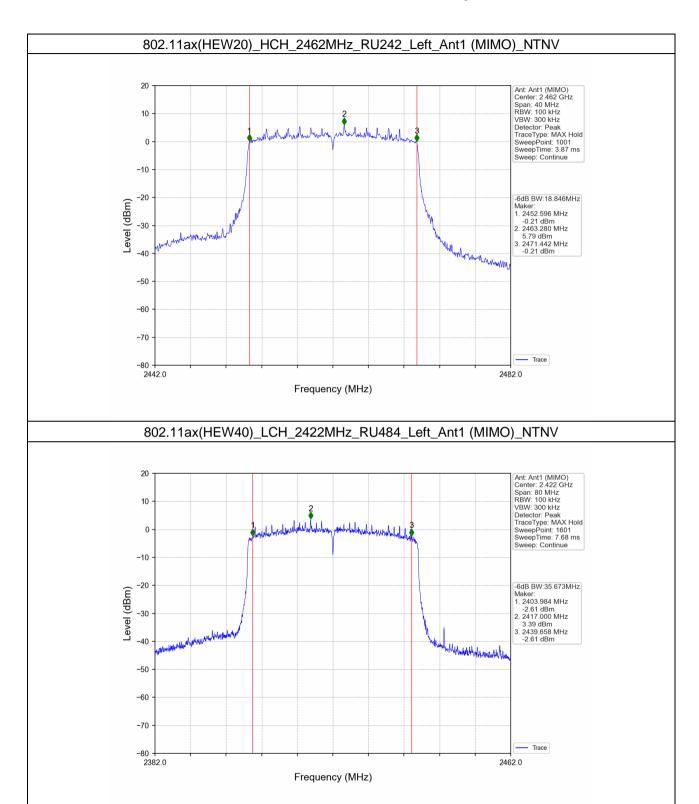






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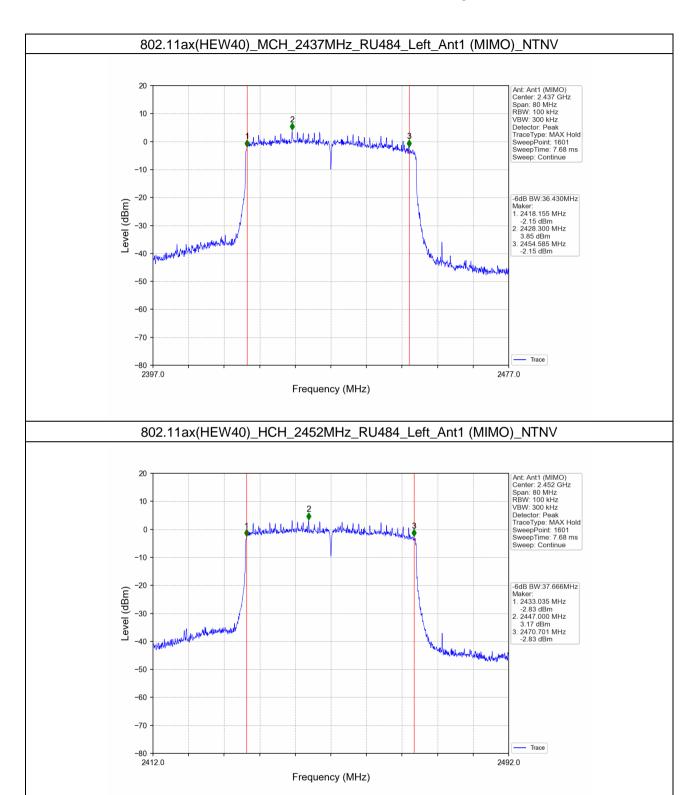






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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mada	TX	Frequency	D	RU	Maximun	\			
Mode Type	(MHz)	RU	Pos	Ant1	Ant2	MIMO	Limit	Verdict	
		2412	/	/	18.06	20.32	/	<=30	Pass
802.11b SISO	2437	/	/	18.48	20.44	/	<=30	Pass	
		2462	/	/	18.25	19.97	/	<=30	Pass
		2412	/	/	16.02	17.99	/	<=30	Pass
802.11g SISO	SISO	2437	/	/	16.31	18.37	/	<=30	Pass
		2462	/	/	18.06	20.32	/	<=30	Pass
802.11n (HT20) MIMO		2412	/	/	18.25	16.31	20.40	<=30	Pass
	MIMO	2437	/	/	18.87	16.68	20.92	<=30	Pass
		2462	/	/	18.20	16.57	20.47	<=30	Pass
802.11n (HT40) MIMO		2422	/	/	16.67	14.85	18.86	<=30	Pass
	MIMO	2437	/	/	17.02	15.16	19.20	<=30	Pass
		2452	/	/	16.79	15.37	19.15	<=30	Pass
802.11ax (HEW20) MIMO		2412	RU242	Left	16.30	14.53	18.51	<=30	Pass
	MIMO	2437	RU242	Left	16.77	14.79	18.90	<=30	Pass
		2462	RU242	Left	16.28	14.82	18.62	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	16.55	14.73	18.74	<=30	Pass
		2437	RU484	Left	17.00	15.01	19.13	<=30	Pass
		2452	RU484	Left	16.68	15.29	19.05	<=30	Pass

Note1: Antenna Gain: Ant1: 3.46dBi; Ant2: 3.46dBi.

Note2: The number of transmit antennas are less than 4, array gain=0dB.

Note3: The Directional gain= GANT=3.46 dBi.



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Maximum Power Spectral Density
 1 PSD

3.1.1 Test Result

Mada	TX	Frequency	DII	RU	Maximum PSD (dBm/3kHz)				\/ - ==!:=4
Mode Type		(MHz)	RU	Pos	Ant1	Ant2	MIMO	Limit	Verdict
		2412	/	/	-6.14	-3.37	/	<=8	Pass
802.11b	SISO	2437	/	/	-5.85	-1.67	/	<=8	Pass
		2462	/	/	-5.48	-3.77	/	<=8	Pass
		2412	/	/	-9.08	-7.26	/	<=8	Pass
802.11g	SISO	2437	/	/	-8.51	-6.81	/	<=8	Pass
		2462	/	/	-7.67	-7.41	/	<=8	Pass
222.44	MIMO	2412	/	/	-7.40	-8.04	-5.23	<=8	Pass
802.11n (HT20)		2437	/	/	-5.40	-7.87	-4.28	<=8	Pass
(11120)		2462	/	/	-6.74	-8.49	-4.87	<=8	Pass
		2422	/	/	-11.48	-12.39	-9.99	<=8	Pass
802.11n (HT40)	MIMO	2437	/	/	-10.48	-12.54	-9.12	<=8	Pass
(11140)		2452	/	/	-11.21	-12.56	-9.52	<=8	Pass
000.44	MIMO	2412	RU242	Left	-9.32	-11.46	-8.13	<=8	Pass
802.11ax (HEW20)		2437	RU242	Left	-8.96	-11.58	-8.00	<=8	Pass
		2462	RU242	Left	-9.70	-11.30	-8.32	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-12.20	-13.00	-10.72	<=8	Pass
		2437	RU484	Left	-11.75	-12.71	-10.24	<=8	Pass
		2452	RU484	Left	-11.92	-13.41	-10.42	<=8	Pass

Note1: Antenna Gain: Ant1: 3.46dBi; Ant2: 3.46dBi.

Note2: The number of transmit antennas are less than 4, array gain=0dB.

Note3: The Directional gain= 3.46+10log (2) dBi=6.47 dBi.



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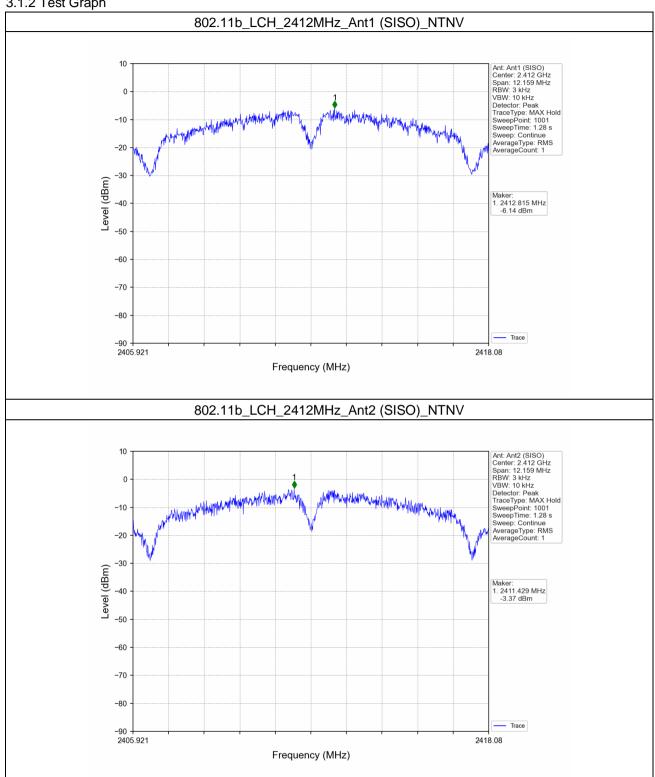
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3.1.2 Test Graph





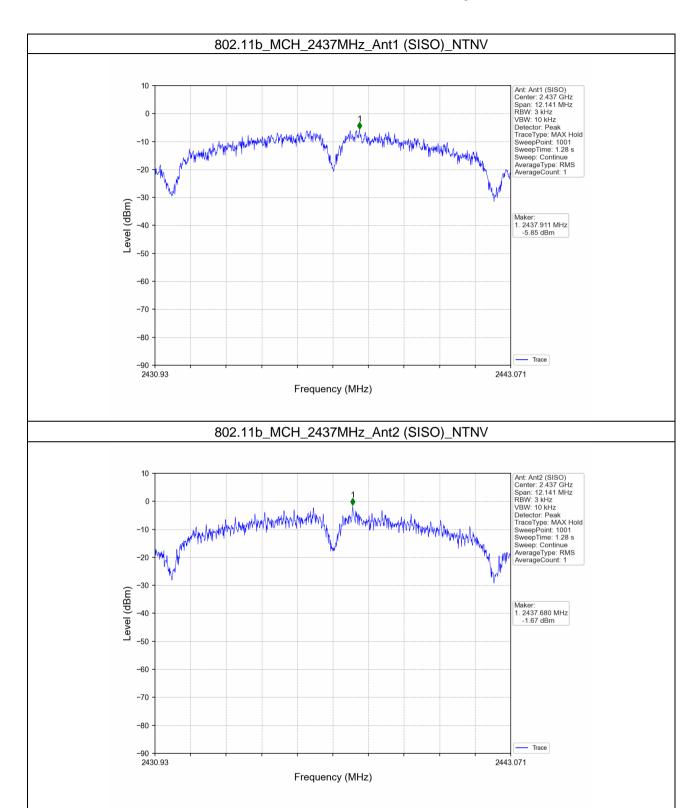
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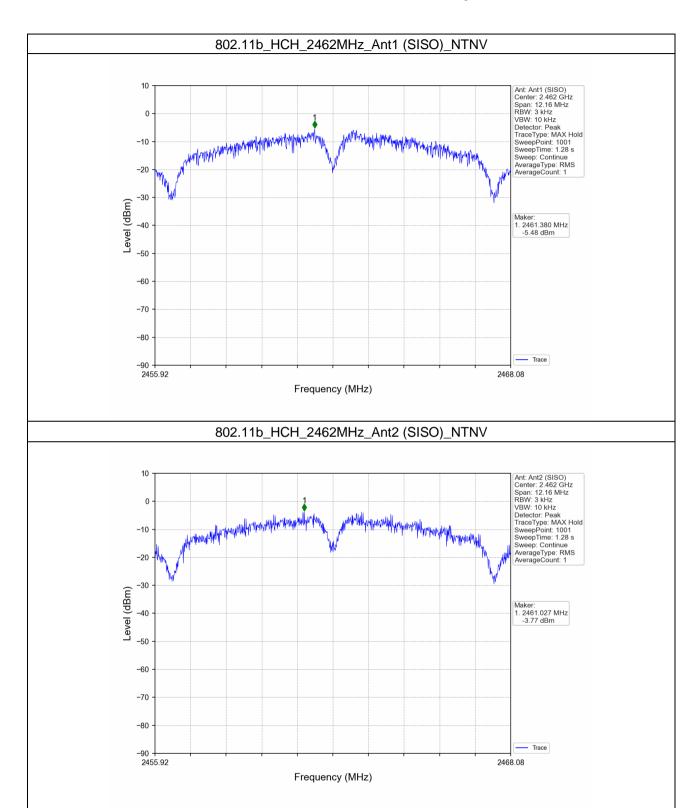
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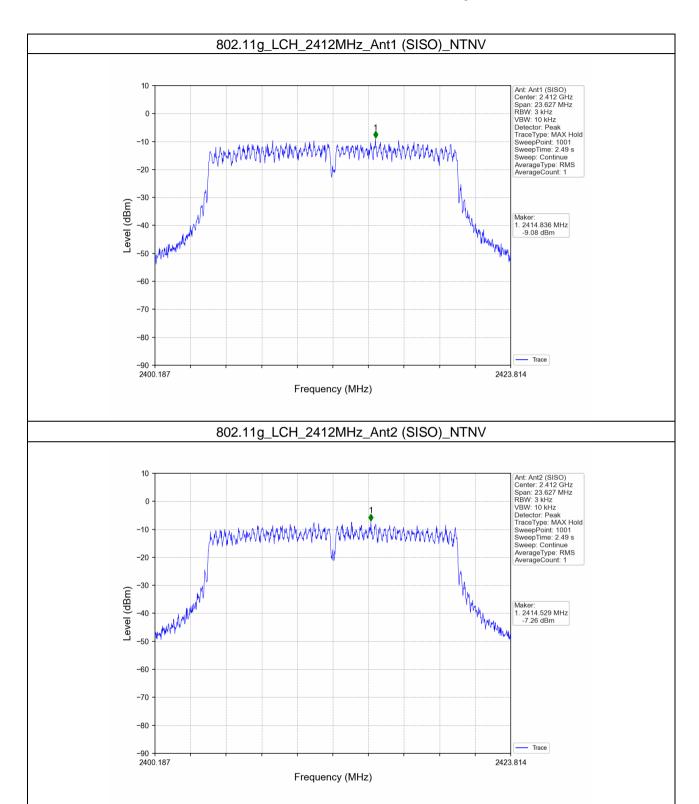






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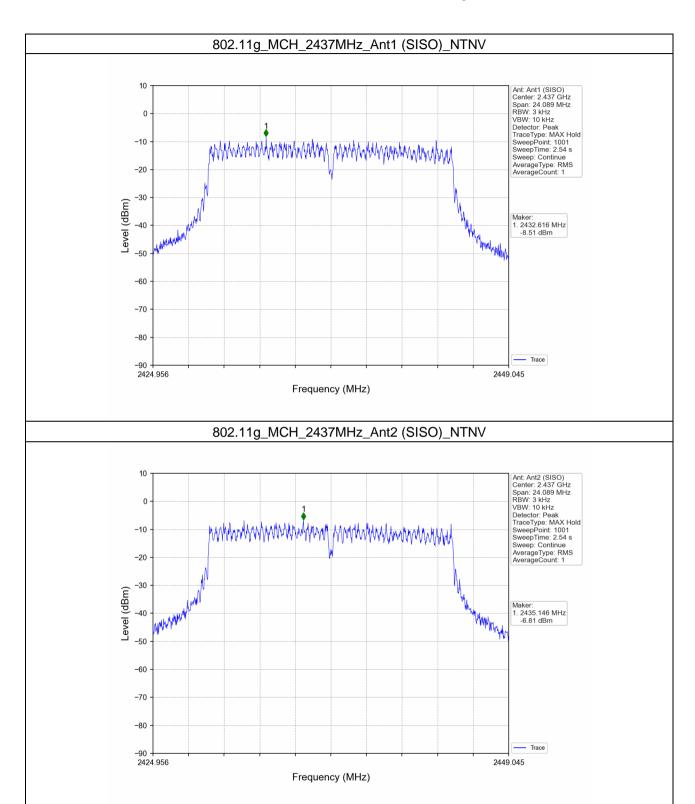






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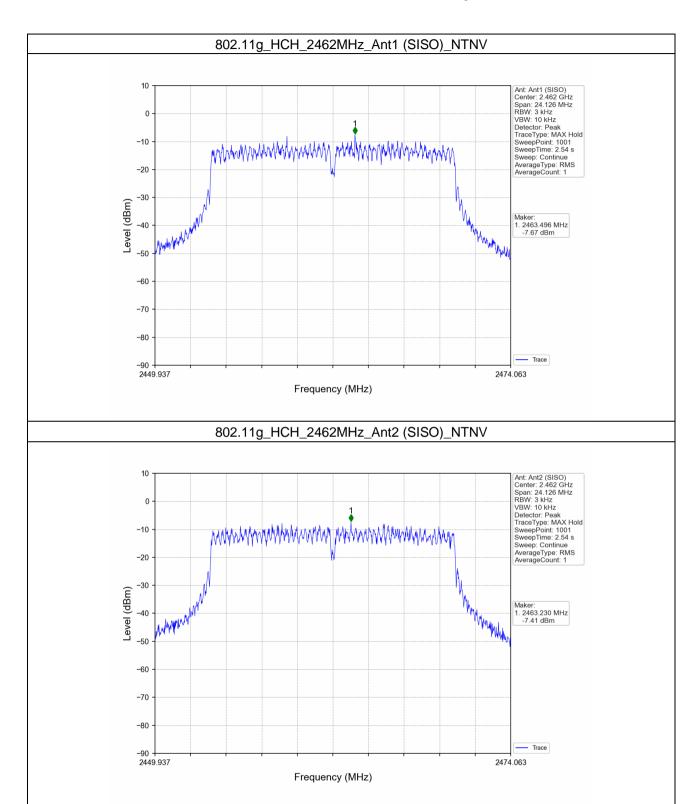






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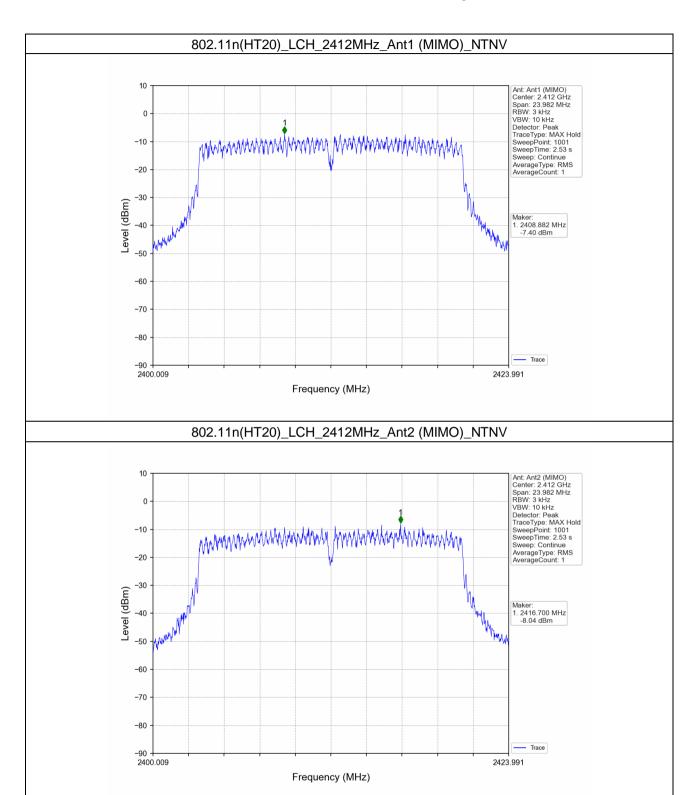
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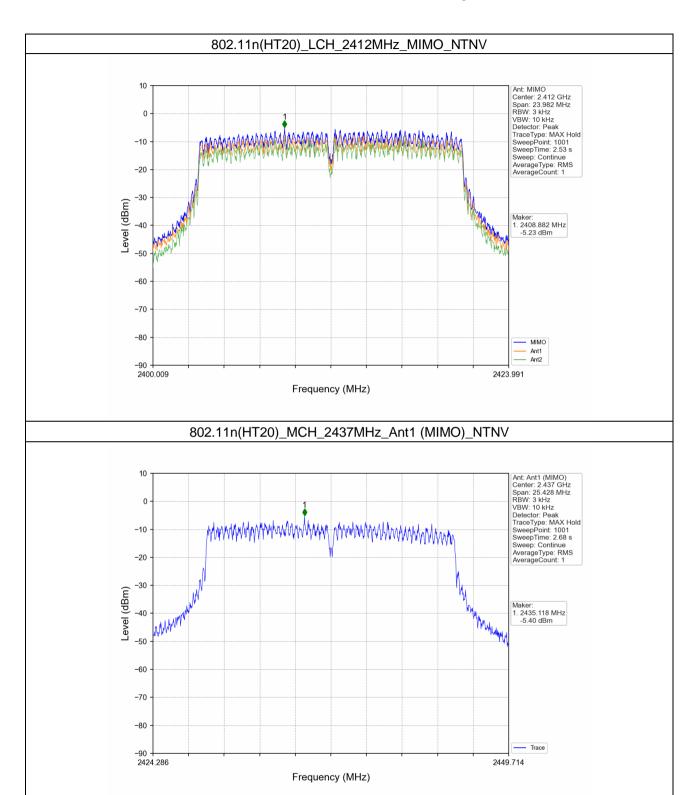
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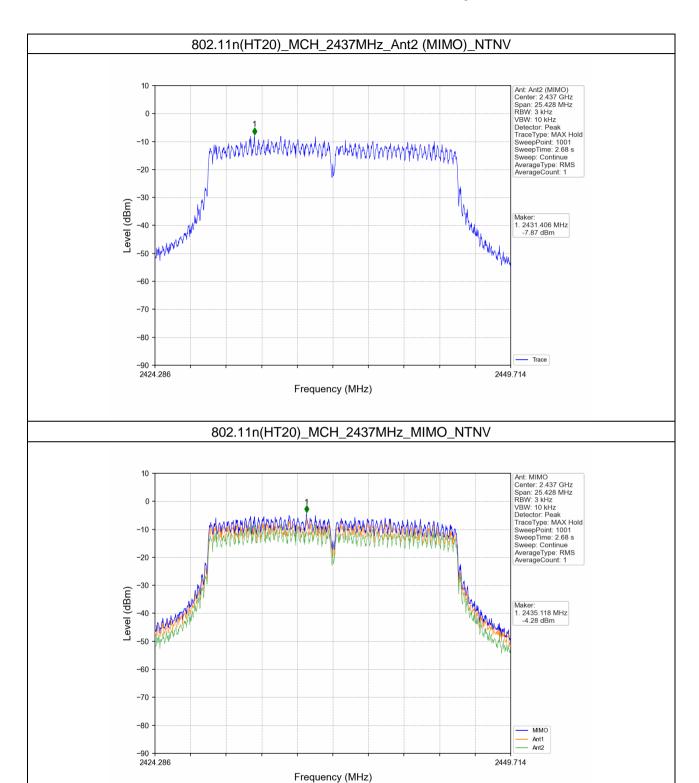






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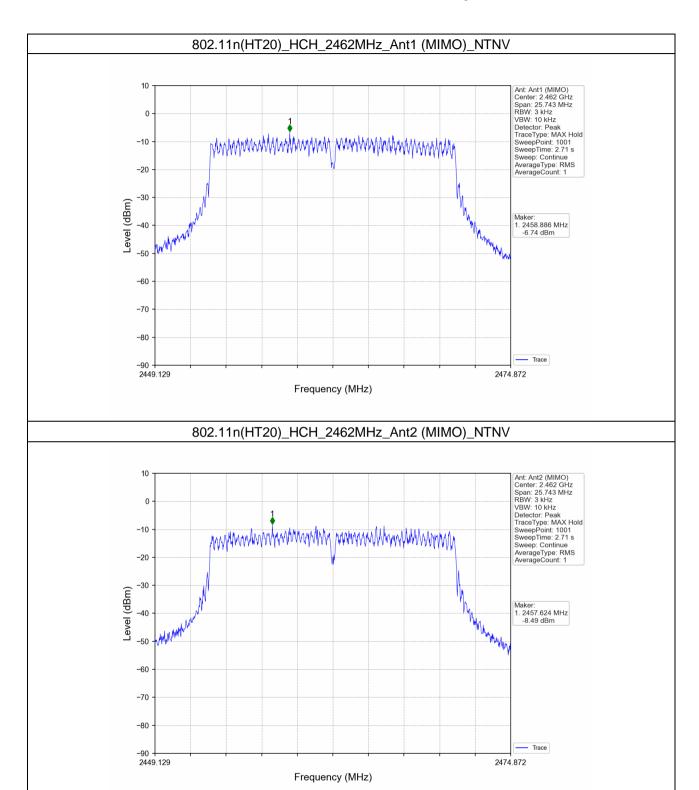






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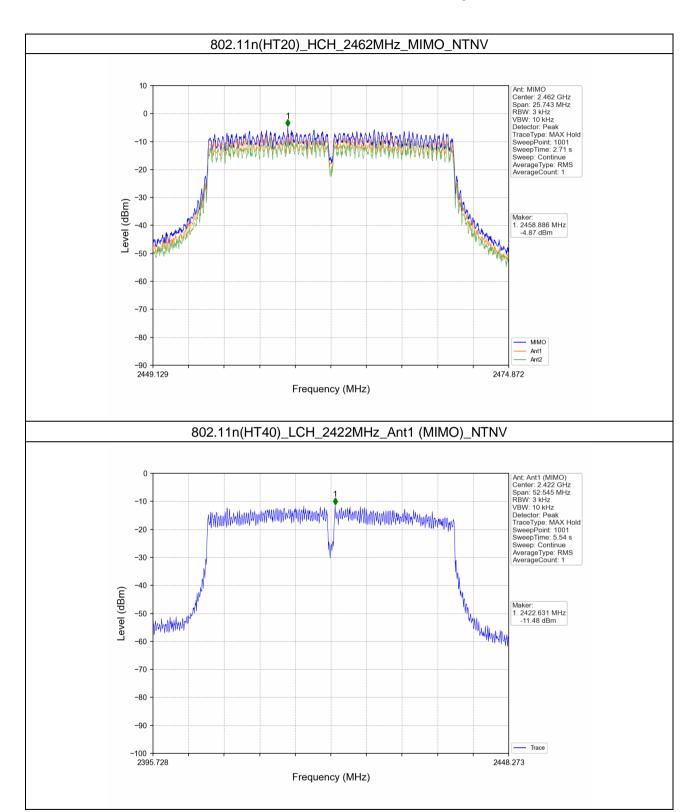






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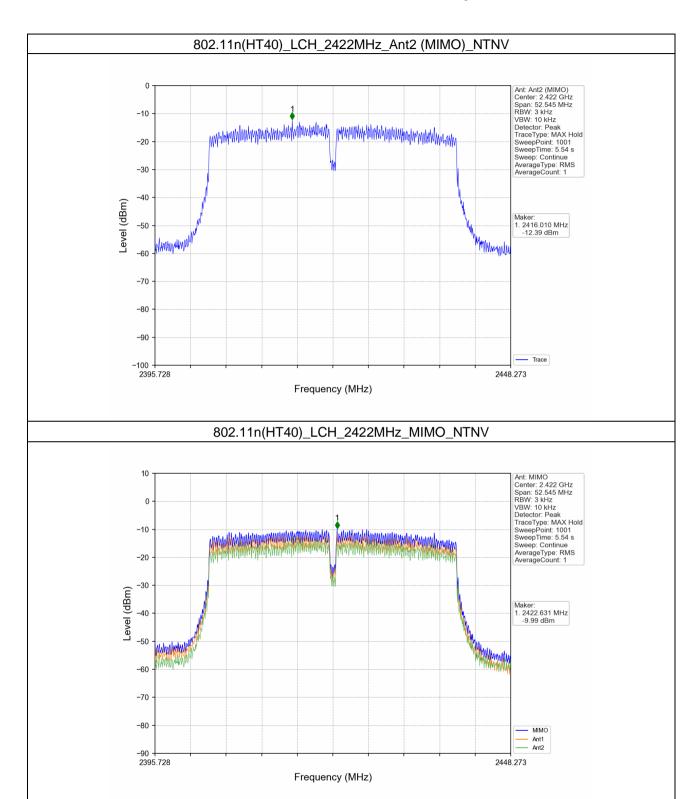






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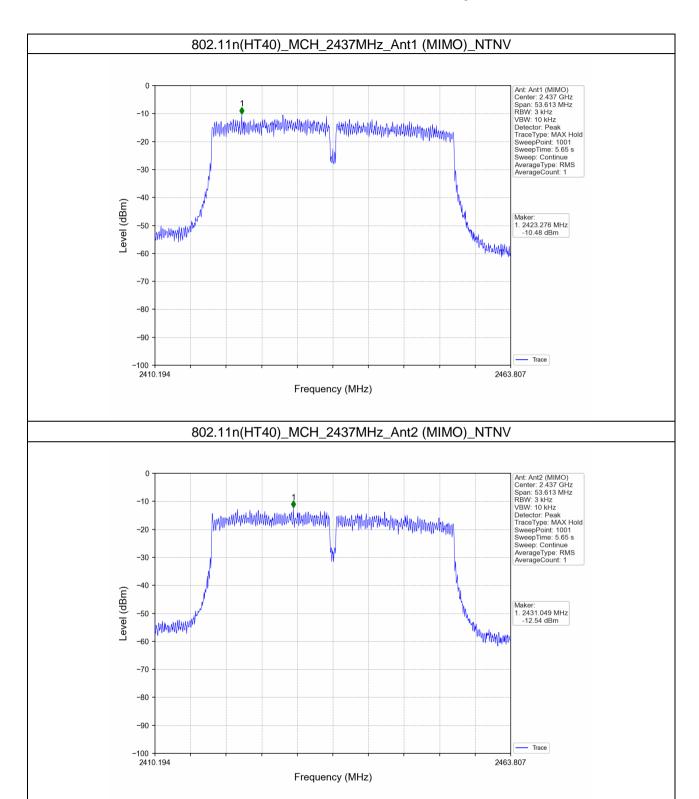






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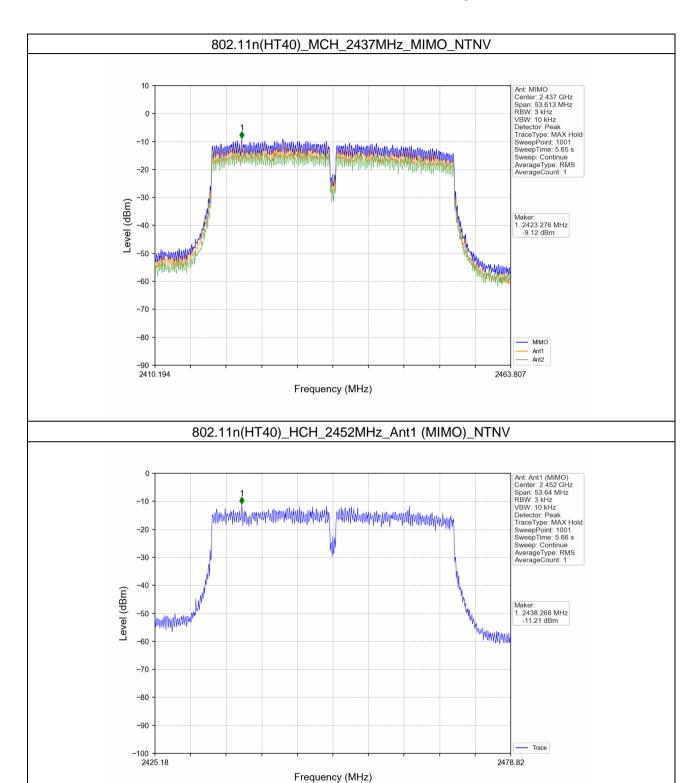
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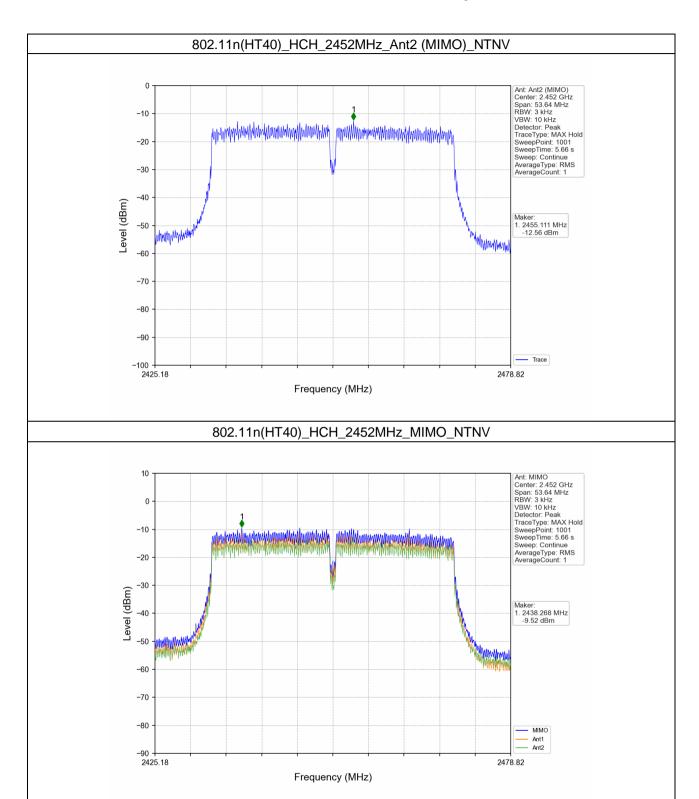
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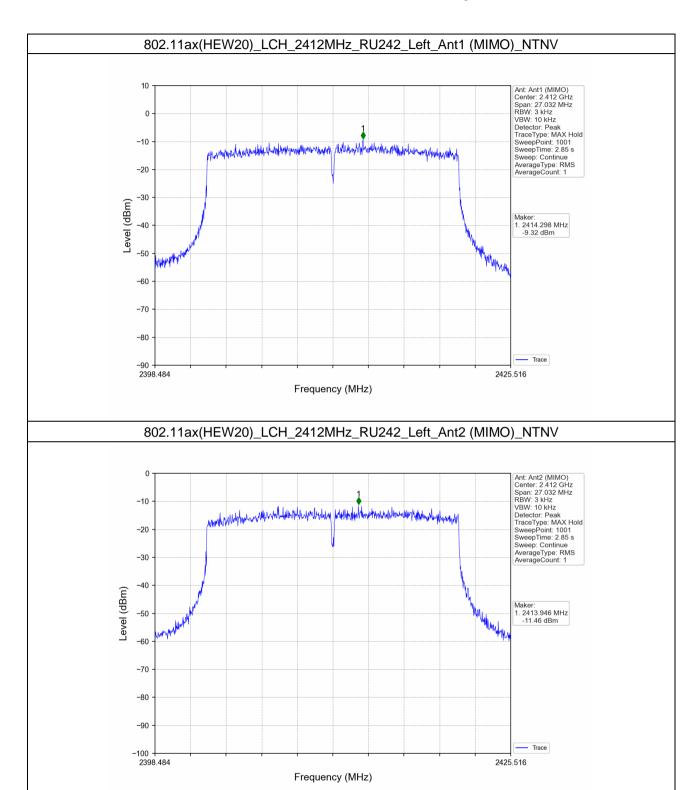






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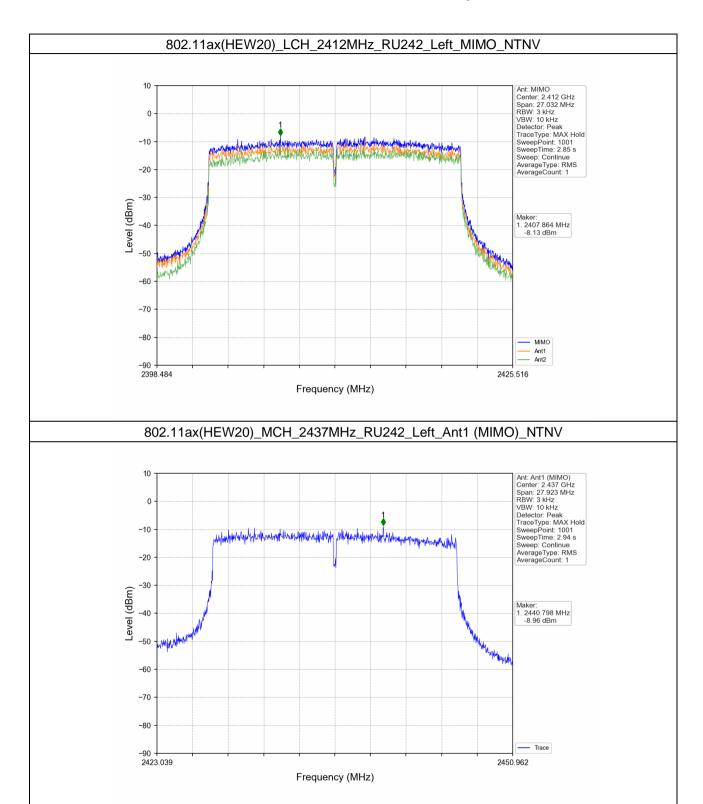






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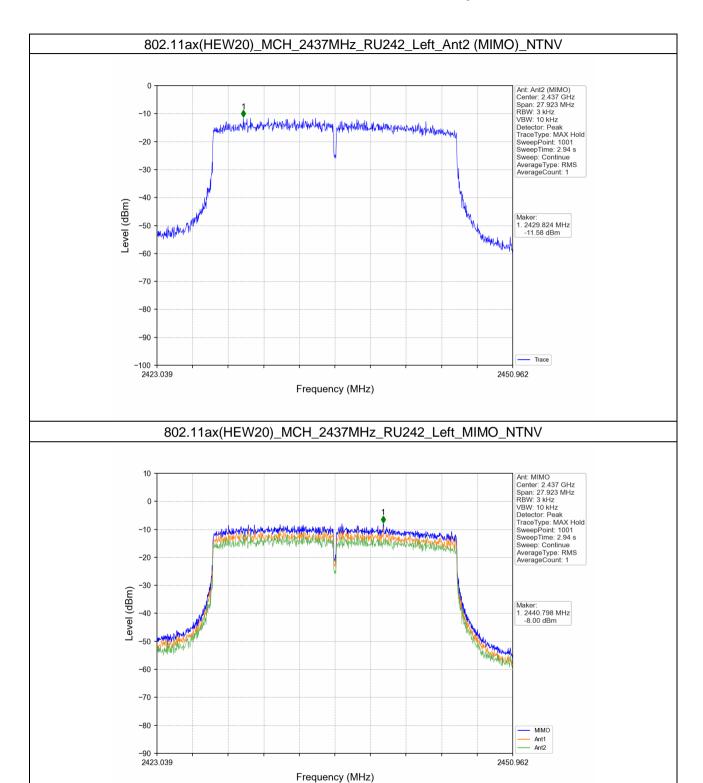






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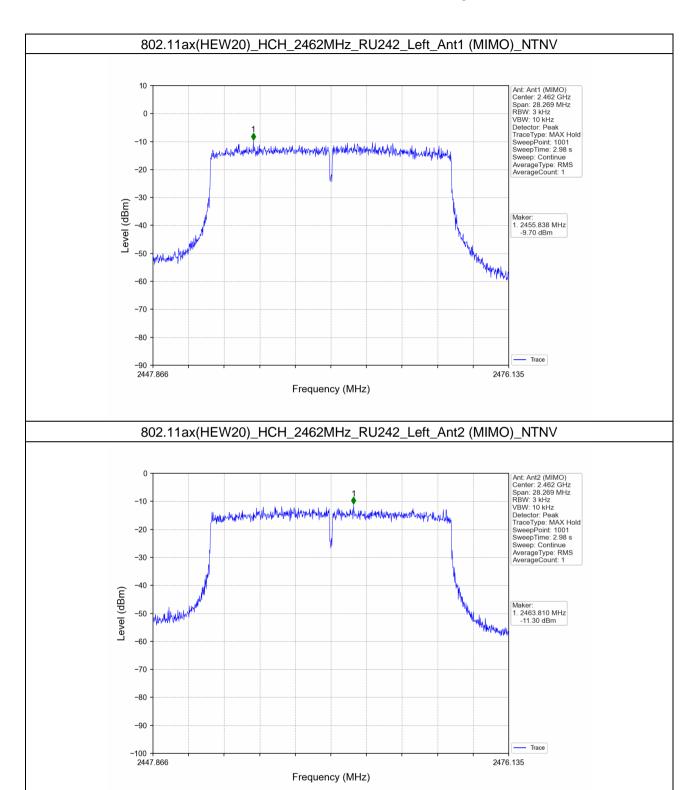






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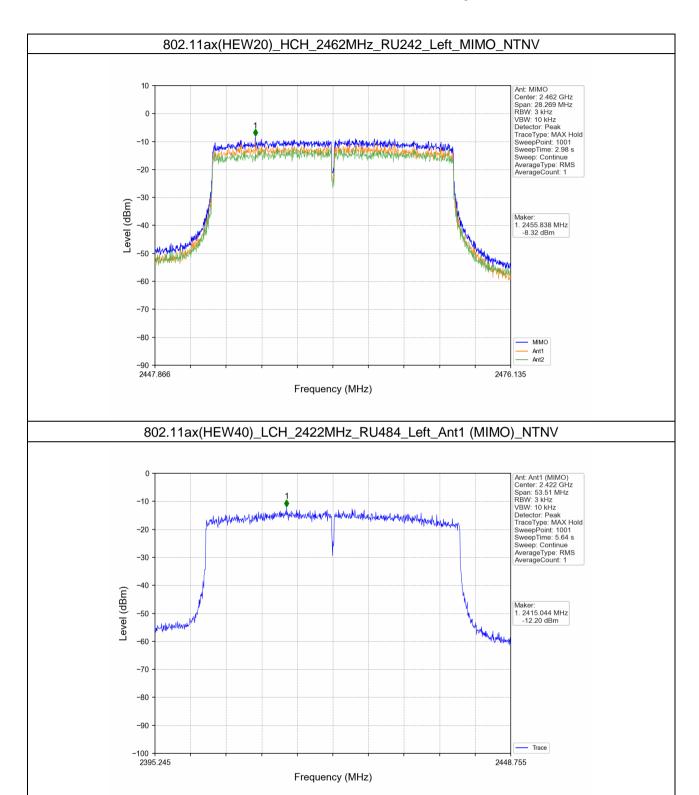
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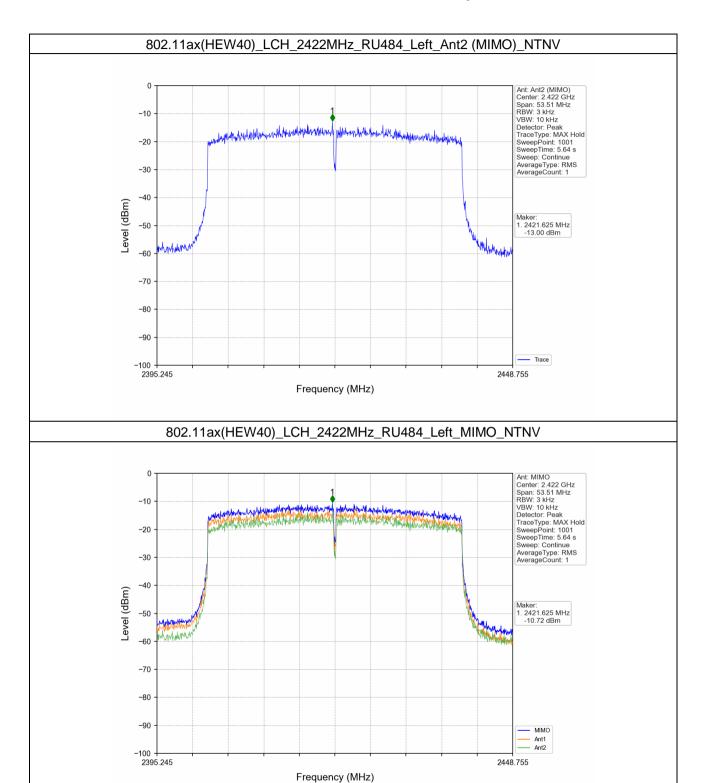






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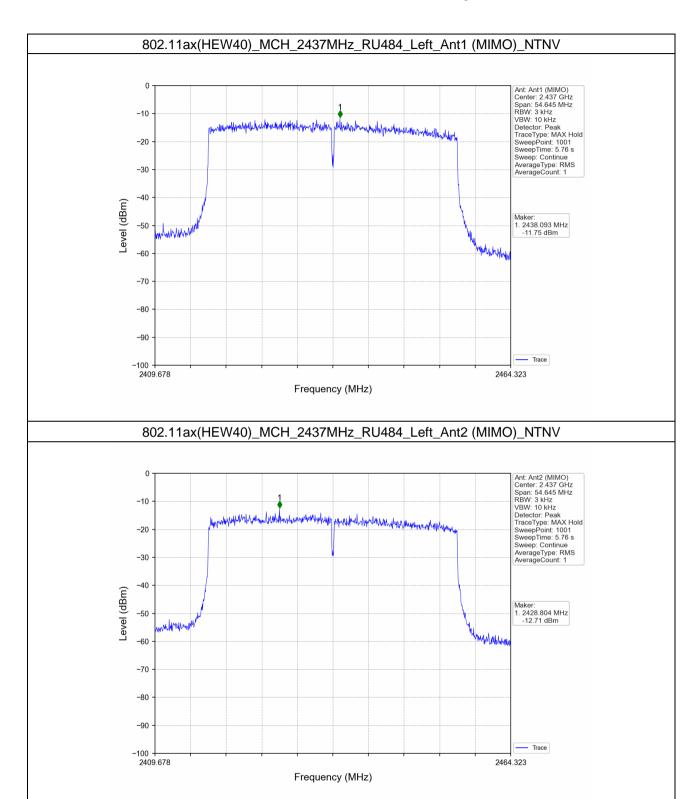
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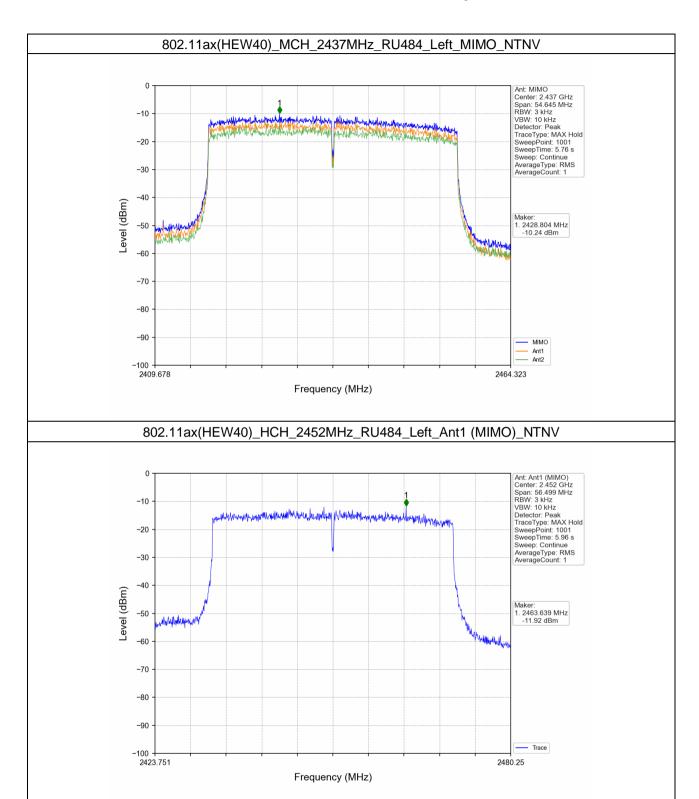






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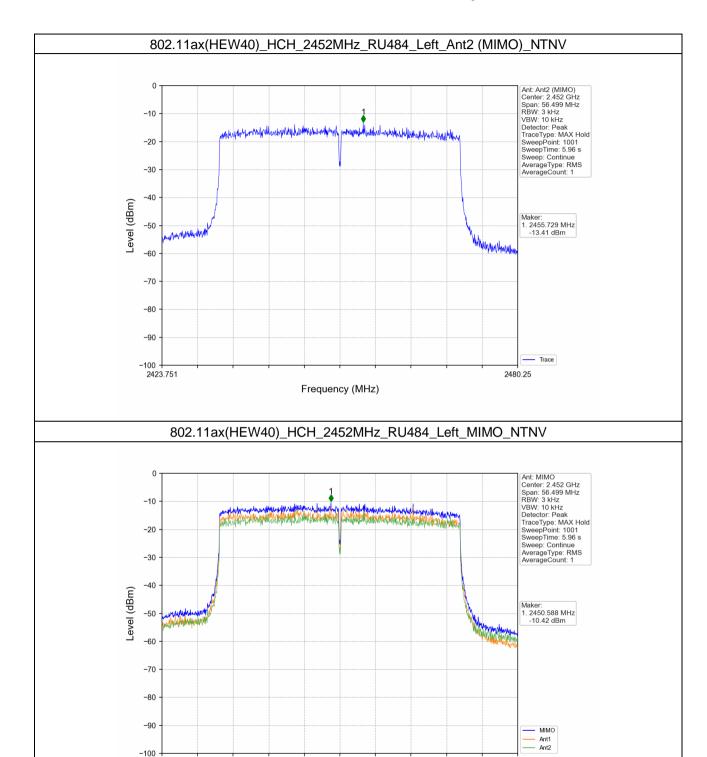
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2423 751

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Frequency (MHz)

2480 25



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4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)
		2442	/	,	1	9.05
	SISO	2412		/	2	12.33
000 441		0.407	/	/	1	9.49
802.11b		2437			2	11.78
		0.400	/	/	1	9.17
		2462			2	10.88
		0440	/	/	1	5.02
		2412			2	7.27
000 11~	SISO	2437	/	/	1	5.52
802.11g					2	7.73
		0400	/	,	1	5.43
		2462	/	/	2	6.93
		2442	,	,	1	7.53
	МІМО	2412	/	/	2	4.99
802.11n		2437	,	,	1	7.95
(HT20)			/	/	2	5.94
		2462	/	/	1	7.22
					2	5.57
	МІМО	2422	/	/	1	3.38
					2	1.21
802.11n		2437	/	/	1	3.79
(HT40)		2437			2	1.38
		2452	/	/	1	3.30
		2432	/	/	2	1.49
	МІМО	2412	RU242	Left	1	5.20
		2412			2	4.03
802.11ax		2437	RU242	Left	1	5.95
(HEW20)		2437			2	3.79
		2462	RU242	Loft	1	5.65
				Left	2	3.77
	MIMO	2422	RU484	Left	1	2.82
		<u> </u>			2	1.16
802.11ax		2437	RU484	Left	1	3.00
(HEW40)		2431			2	0.50
		2452	RU484	Left	1	3.05
		2402			2	1.11



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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.



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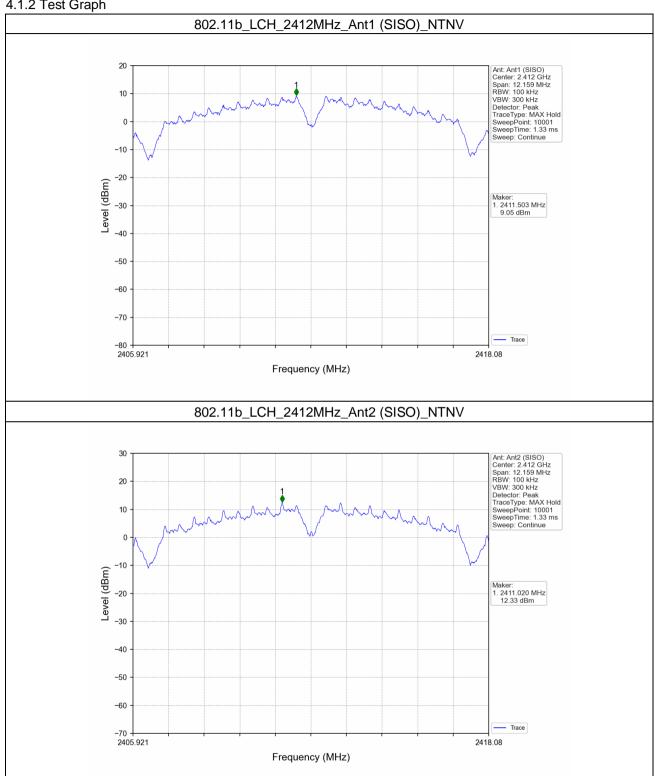
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4.1.2 Test Graph





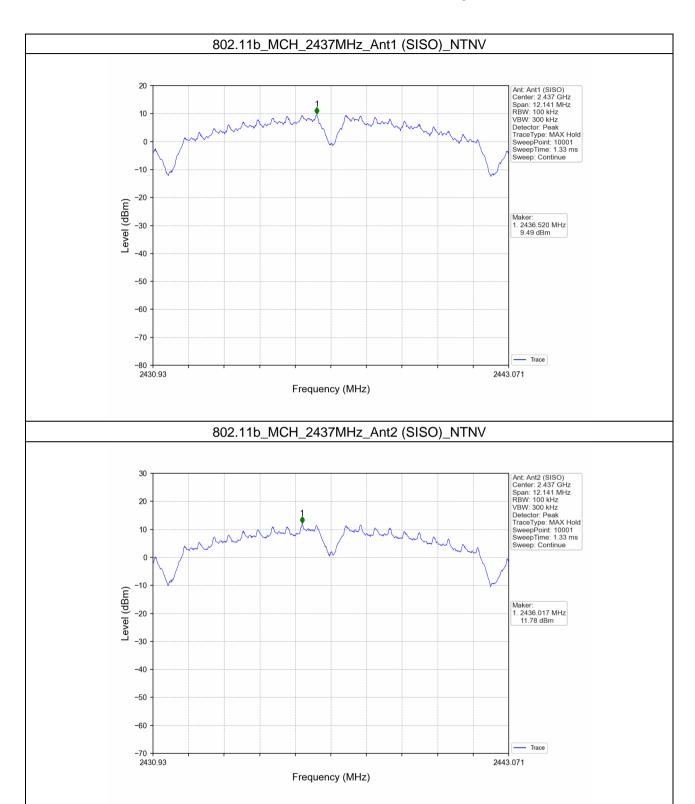
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