

## Appendix for 15.247

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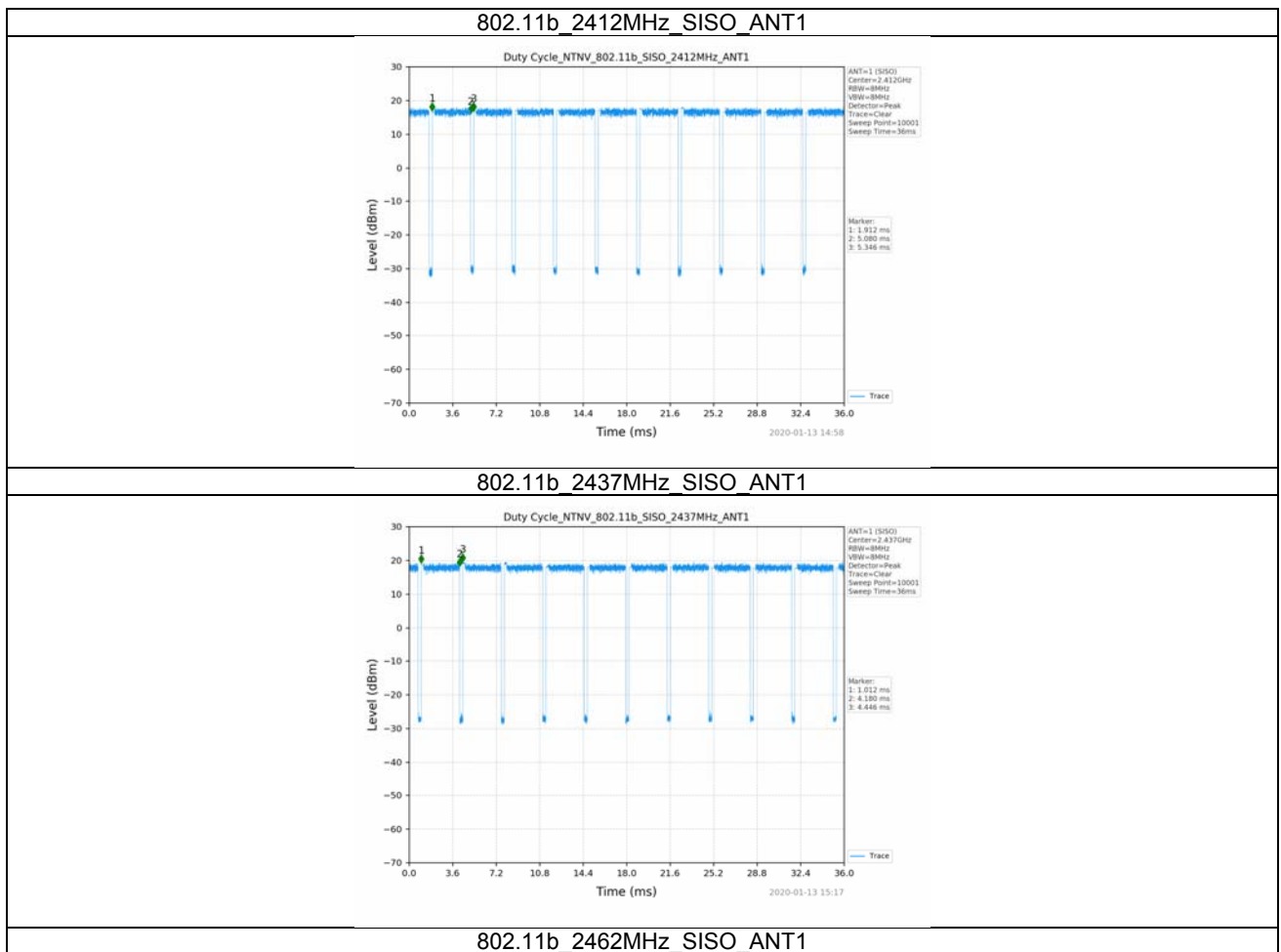
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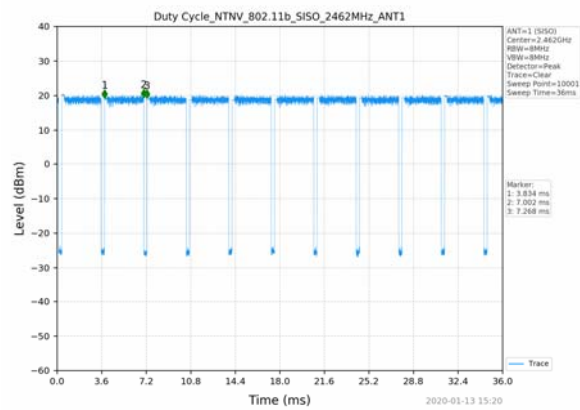
## 1. Duty Cycle

### 1.1 Test Result

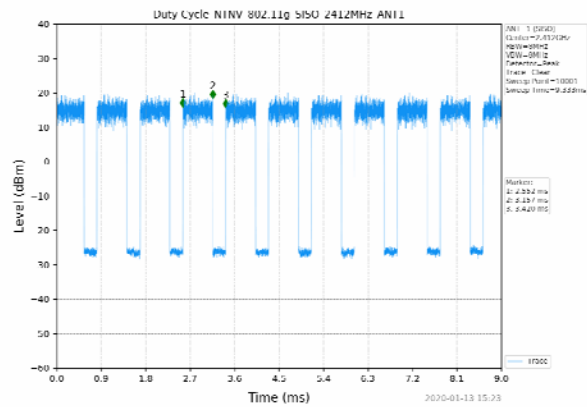
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	3.168	3.434	92.25	0.35
	2437	SISO	1	3.168	3.434	92.25	0.35
	2462	SISO	1	3.168	3.434	92.25	0.35
802.11g	2412	SISO	1	0.605	0.868	69.70	1.57
	2437	SISO	1	0.605	0.867	69.78	1.56
	2462	SISO	1	0.605	0.868	69.70	1.57
802.11n(HT20)	2412	SISO	1	0.544	0.816	66.67	1.76
	2437	SISO	1	0.544	0.816	66.67	1.76
	2462	SISO	1	0.544	0.816	66.67	1.76

### 1.2 Test Graph

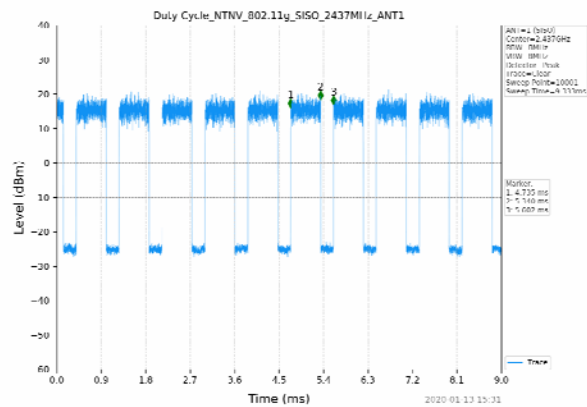




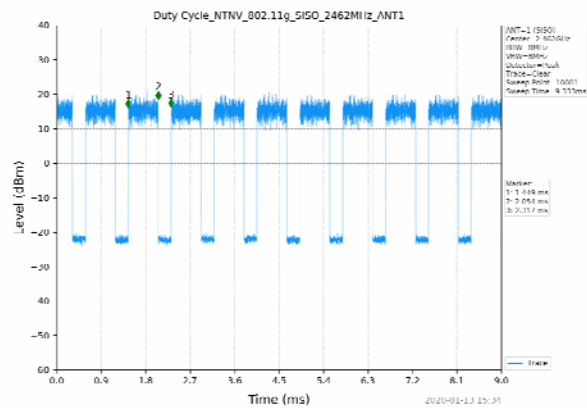
802.11g\_2412MHz\_SISO\_ANT1



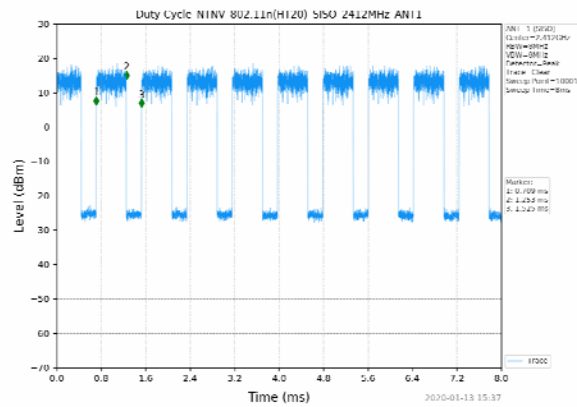
802.11g\_2437MHz\_SISO\_ANT1



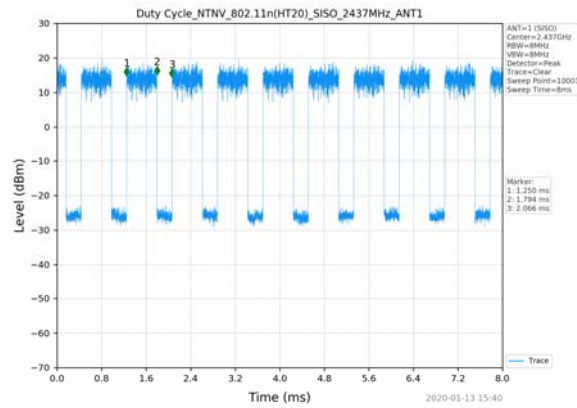
802.11g\_2462MHz\_SISO\_ANT1



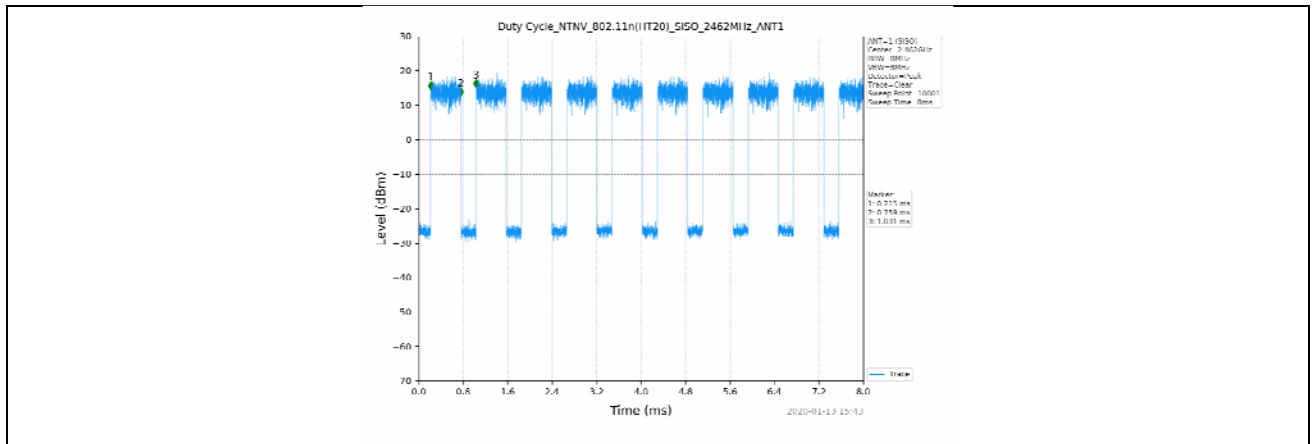
802.11n(HT20)\_2412MHz\_SISO\_ANT1



802.11n(HT20)\_2437MHz\_SISO\_ANT1



802.11n(HT20)\_2462MHz\_SISO\_ANT1



## 2. Bandwidth

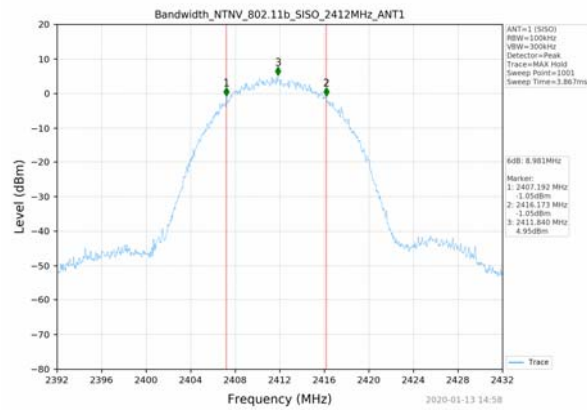
### 2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	8.981	$\geq 0.5$	PASS
	2437	SISO	1	8.981	$\geq 0.5$	PASS
	2462	SISO	1	8.074	$\geq 0.5$	PASS
802.11g	2412	SISO	1	16.445	$\geq 0.5$	PASS
	2437	SISO	1	16.474	$\geq 0.5$	PASS
	2462	SISO	1	16.490	$\geq 0.5$	PASS
802.11n(HT20)	2412	SISO	1	17.357	$\geq 0.5$	PASS
	2437	SISO	1	17.665	$\geq 0.5$	PASS
	2462	SISO	1	17.706	$\geq 0.5$	PASS

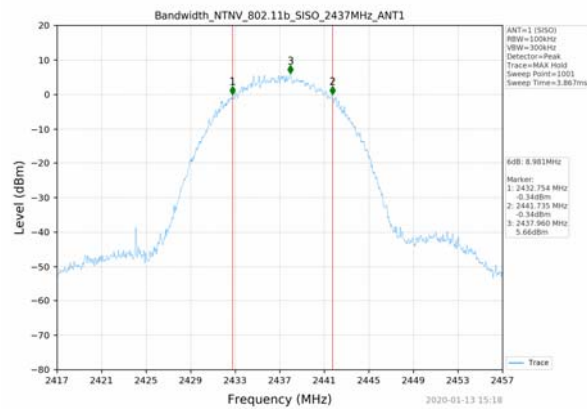
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	12.868	Only for Report Use
	2437	SISO	1	12.798	Only for Report Use
	2462	SISO	1	12.840	Only for Report Use
802.11g	2412	SISO	1	16.753	Only for Report Use
	2437	SISO	1	16.763	Only for Report Use
	2462	SISO	1	16.807	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.771	Only for Report Use
	2437	SISO	1	17.776	Only for Report Use
	2462	SISO	1	17.815	Only for Report Use

### 2.2 Test Graph - 6dB Bandwidth

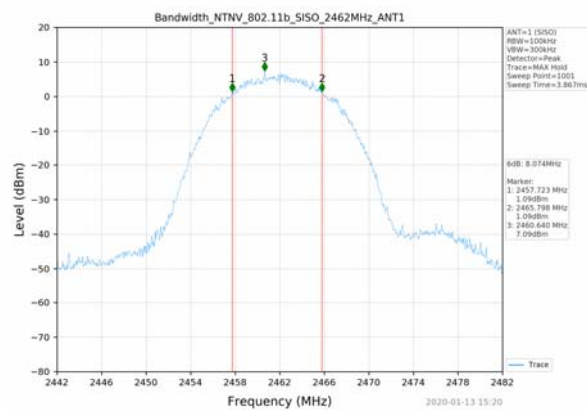
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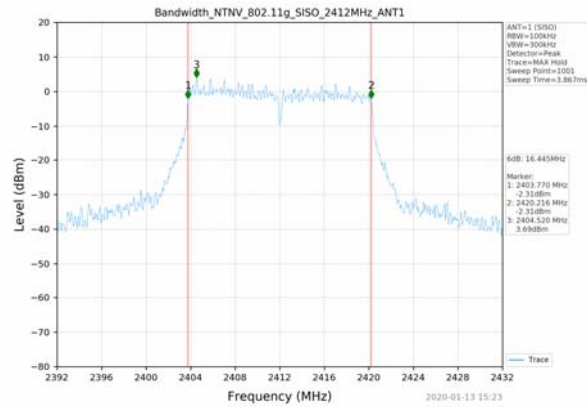
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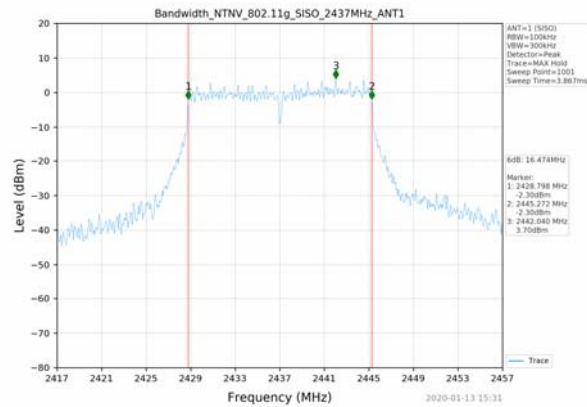
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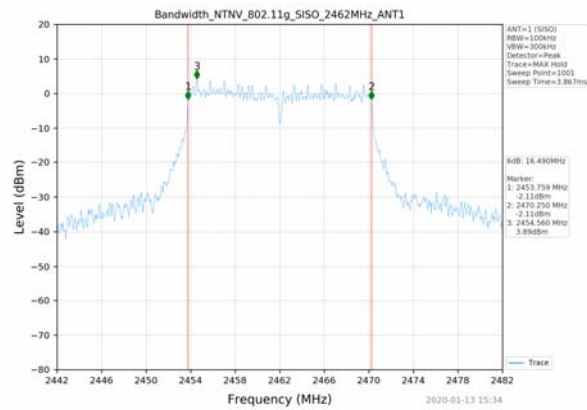
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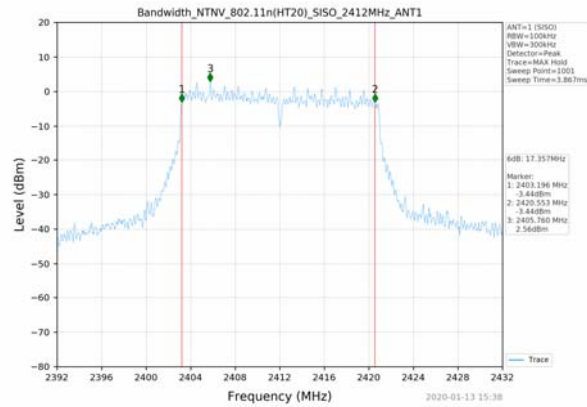
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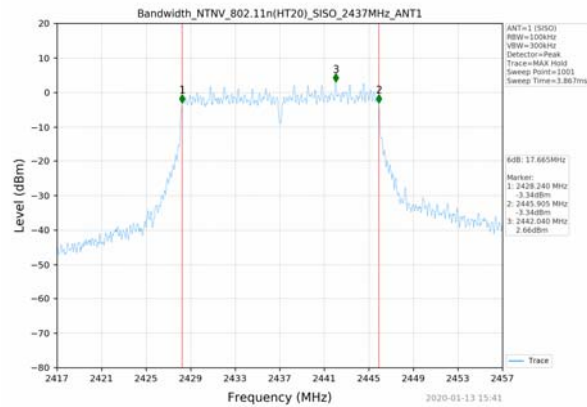
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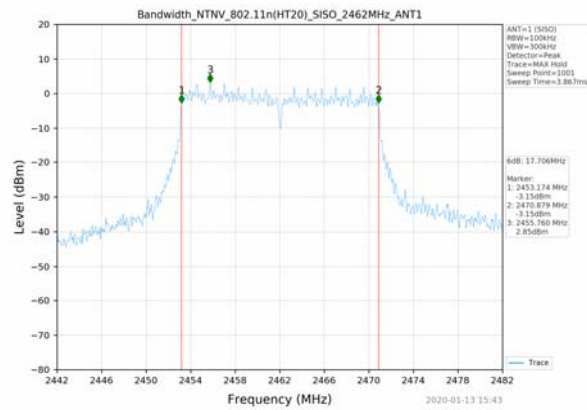
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### 802.11n(HT20)\_2437MHz\_SISO\_ANT1



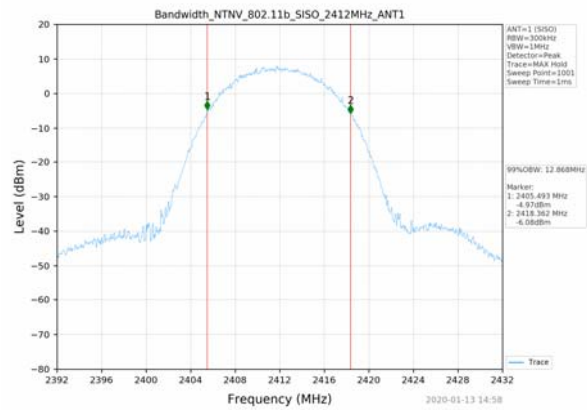
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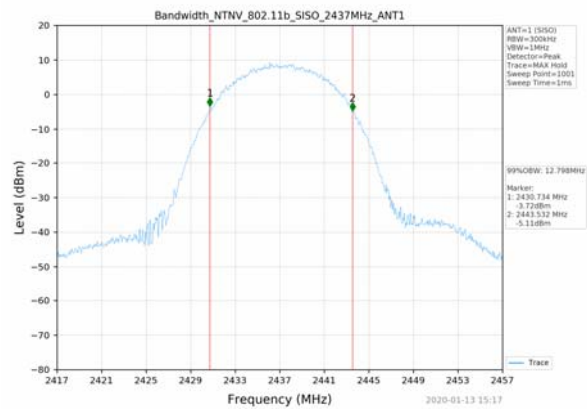
## 2.3 Test Graph - 99% Occupied Bandwidth



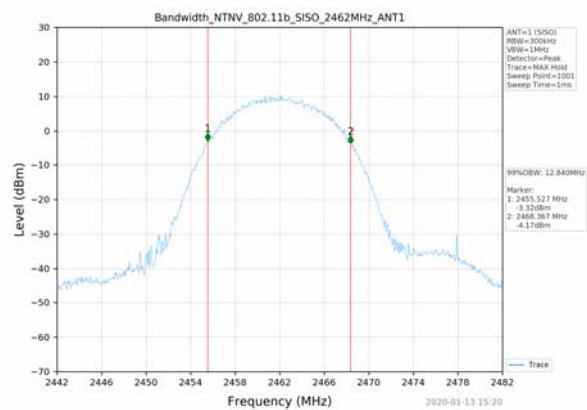
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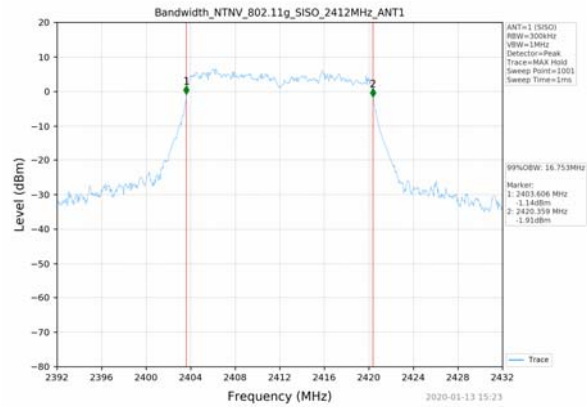
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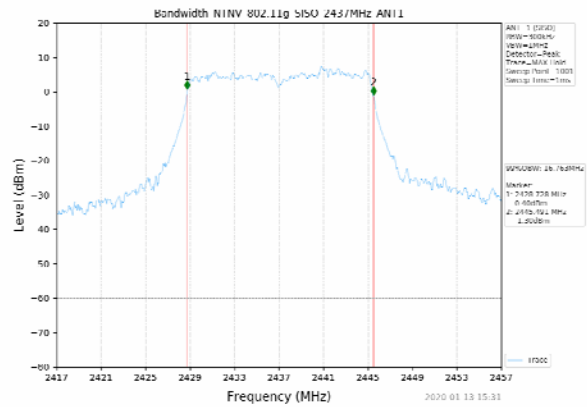
### 802.11b\_2462MHz\_SISO\_ANT1



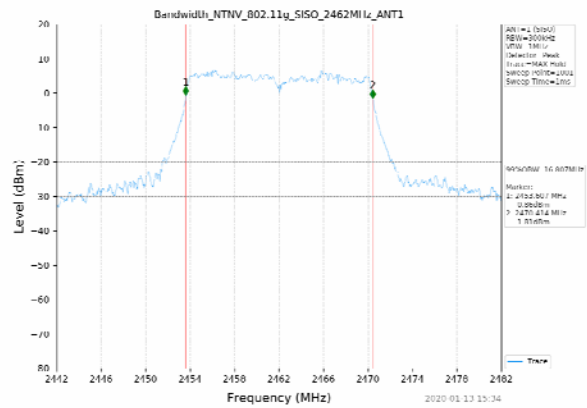
### 802.11g\_2412MHz\_SISO\_ANT1



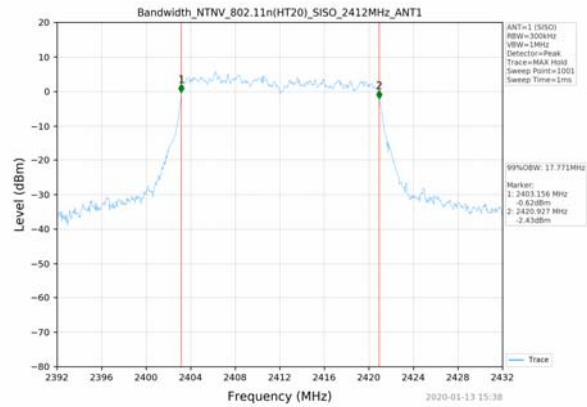
### 802.11g\_2437MHz\_SISO\_ANT1



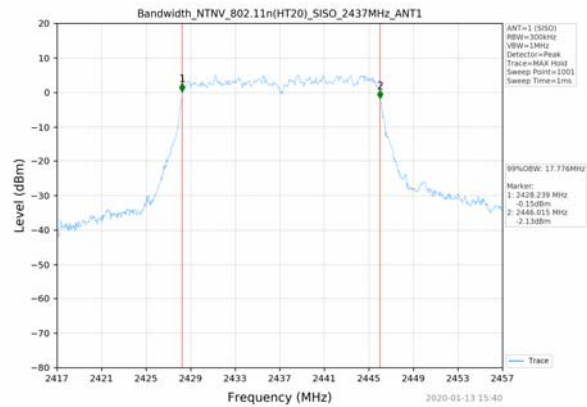
### 802.11g\_2462MHz\_SISO\_ANT1



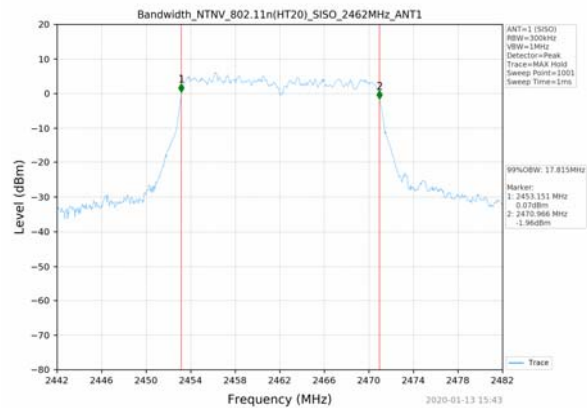
### 802.11n(HT20)\_2412MHz\_SISO\_ANT1



### 802.11n(HT20)\_2437MHz\_SISO\_ANT1



### 802.11n(HT20)\_2462MHz\_SISO\_ANT1



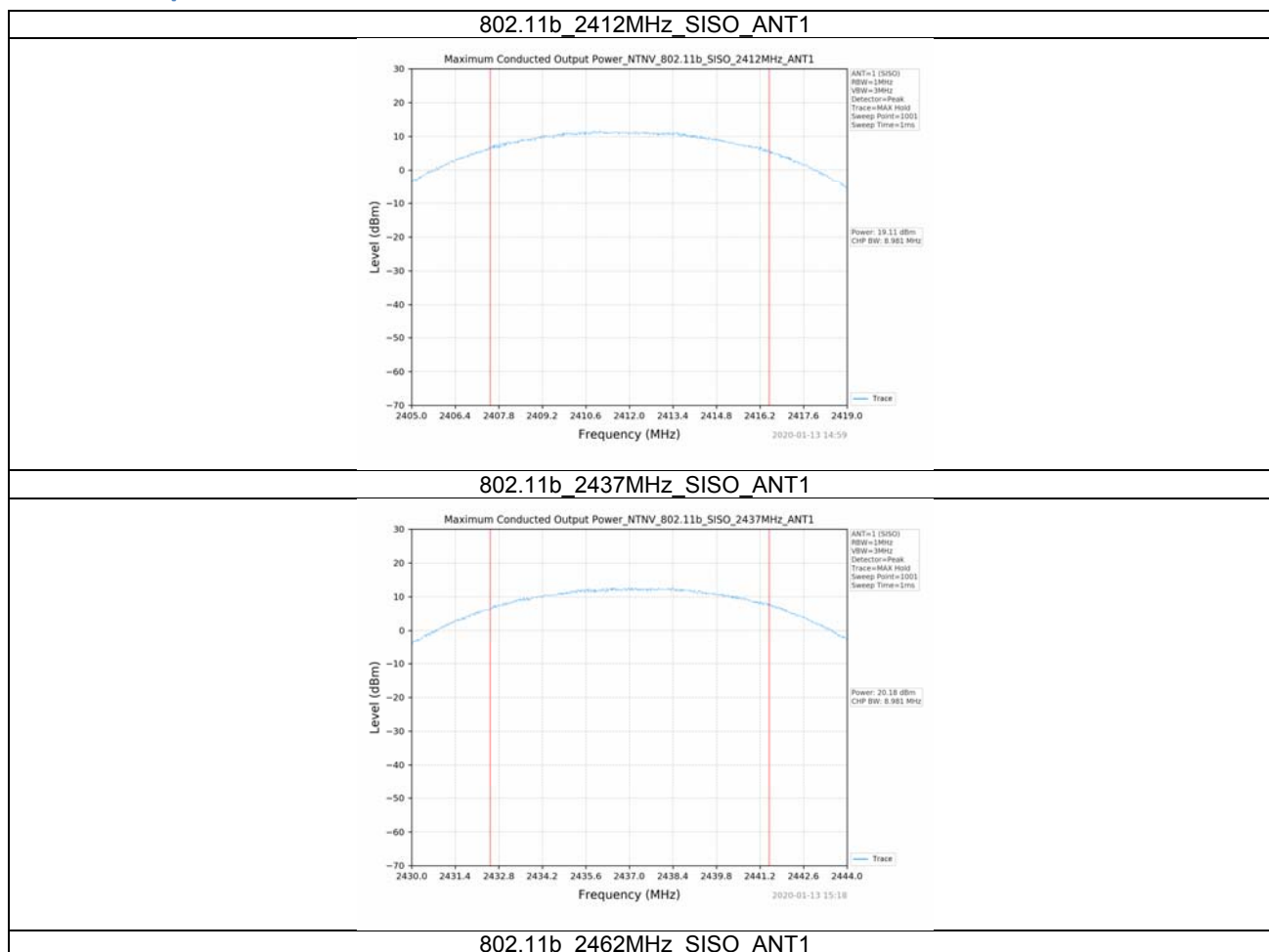
## 3. Maximum Conducted Output Power

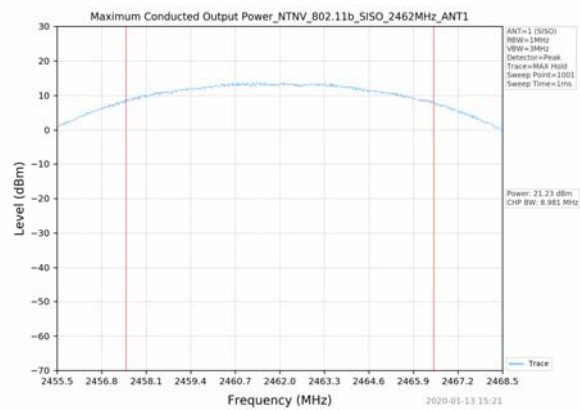
### 3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
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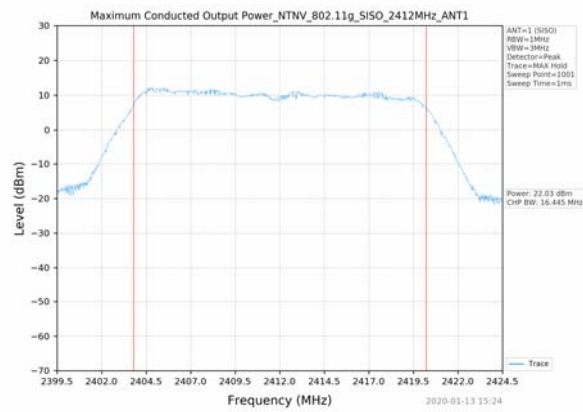
			Ant 1		
802.11b	2412	SISO	19.11	30	PASS
	2437	SISO	20.18	30	PASS
	2462	SISO	21.23	30	PASS
802.11g	2412	SISO	22.03	30	PASS
	2437	SISO	22.43	30	PASS
	2462	SISO	22.39	30	PASS
802.11n(HT20)	2412	SISO	20.83	30	PASS
	2437	SISO	21.36	30	PASS
	2462	SISO	21.44	30	PASS

### 3.2 Test Graph

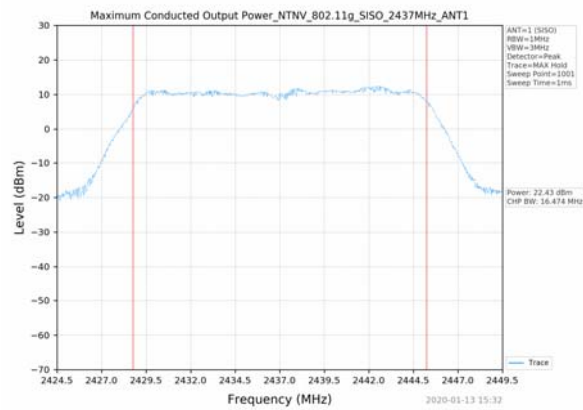




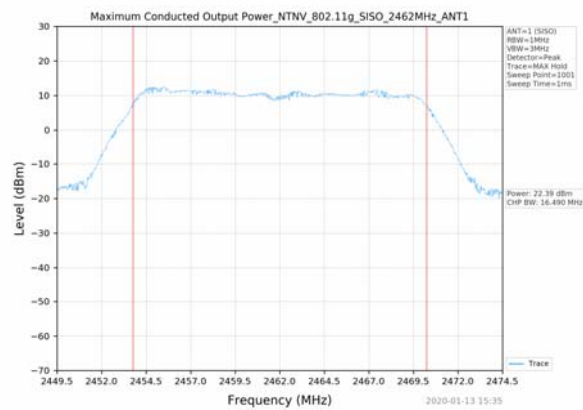
802.11g\_2412MHz\_SISO\_ANT1



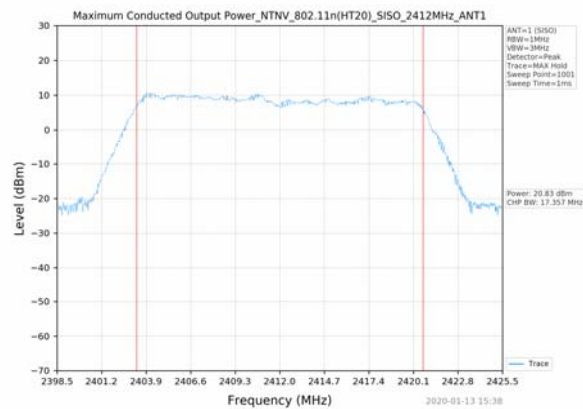
802.11g\_2437MHz\_SISO\_ANT1



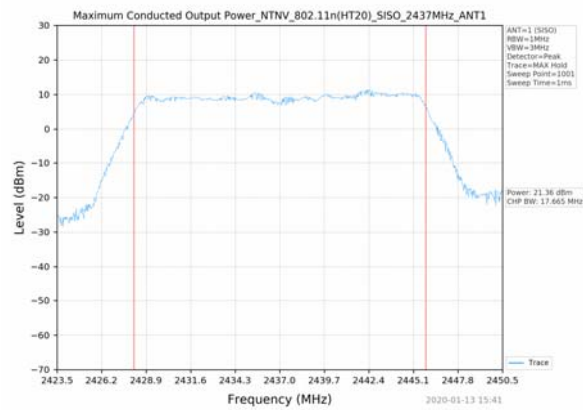
802.11g\_2462MHz\_SISO\_ANT1



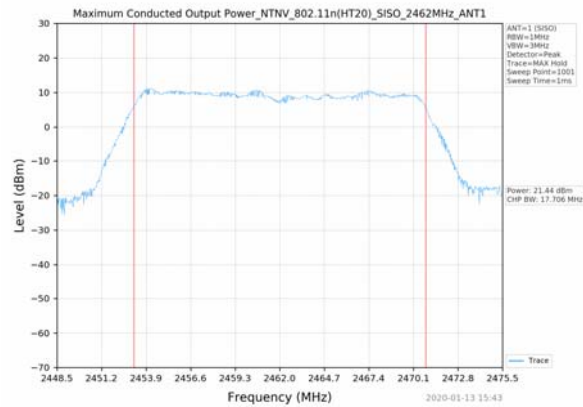
802.11n(HT20)\_2412MHz\_SISO\_ANT1



802.11n(HT20)\_2437MHz\_SISO\_ANT1



802.11n(HT20)\_2462MHz\_SISO\_ANT1

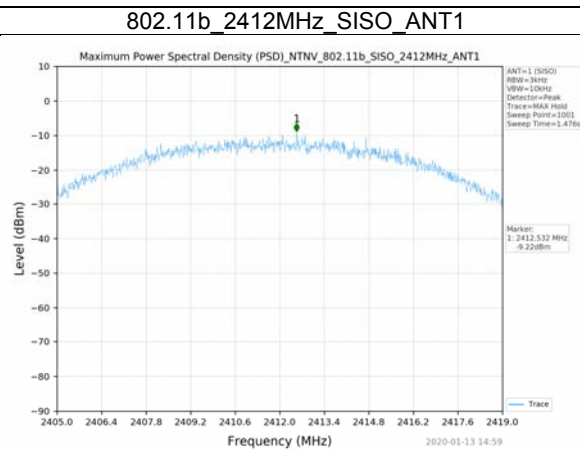


## 4. Maximum Power Spectral Density (PSD)

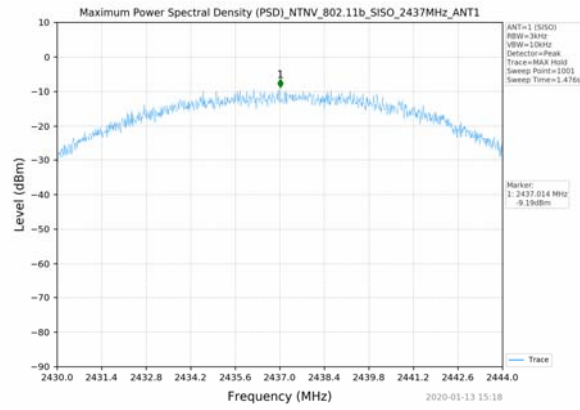
### 4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-9.22	$\leq 8$	PASS
	2437	SISO	-9.19	$\leq 8$	PASS
	2462	SISO	-7.78	$\leq 8$	PASS
802.11g	2412	SISO	-11.74	$\leq 8$	PASS
	2437	SISO	-11.29	$\leq 8$	PASS
	2462	SISO	-11.31	$\leq 8$	PASS
802.11n(HT20)	2412	SISO	-12.03	$\leq 8$	PASS
	2437	SISO	-11.84	$\leq 8$	PASS
	2462	SISO	-11.71	$\leq 8$	PASS

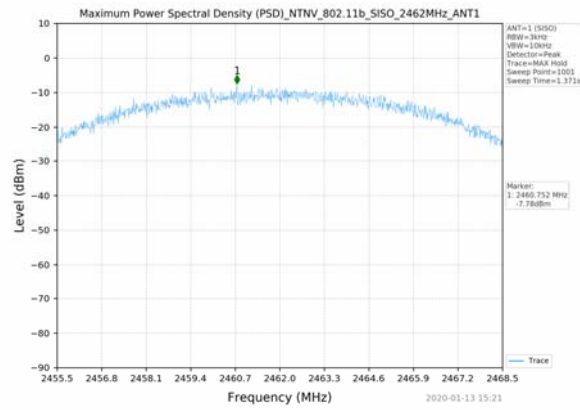
### 4.2 Test Graph



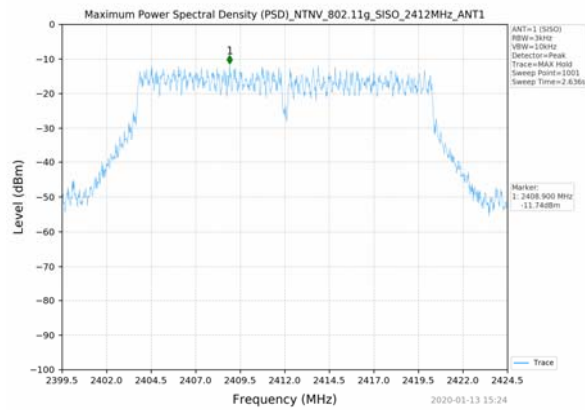
### 802.11b\_2437MHz\_SISO\_ANT1



### 802.11b\_2462MHz\_SISO\_ANT1

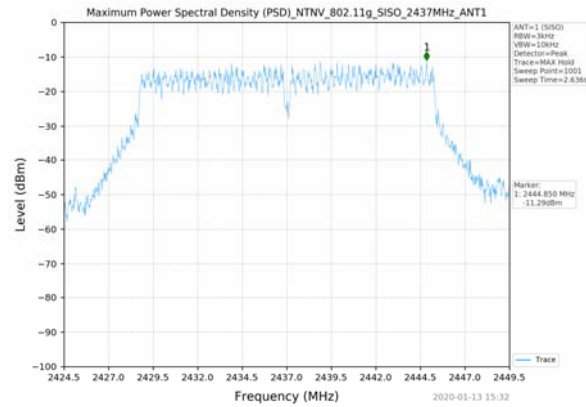


### 802.11g\_2412MHz\_SISO\_ANT1

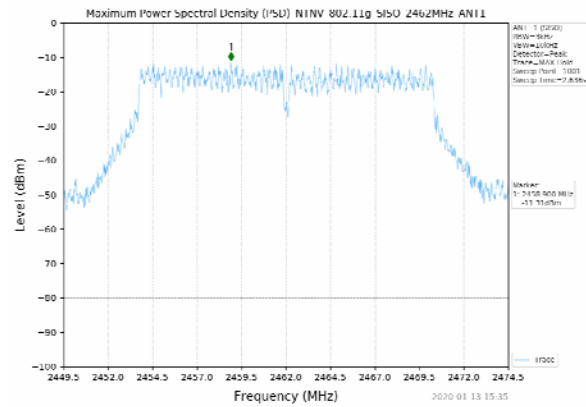




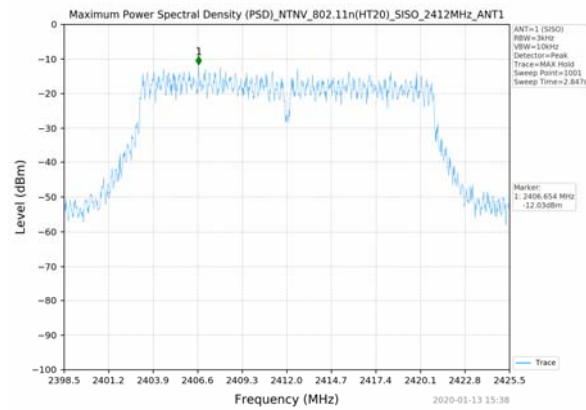
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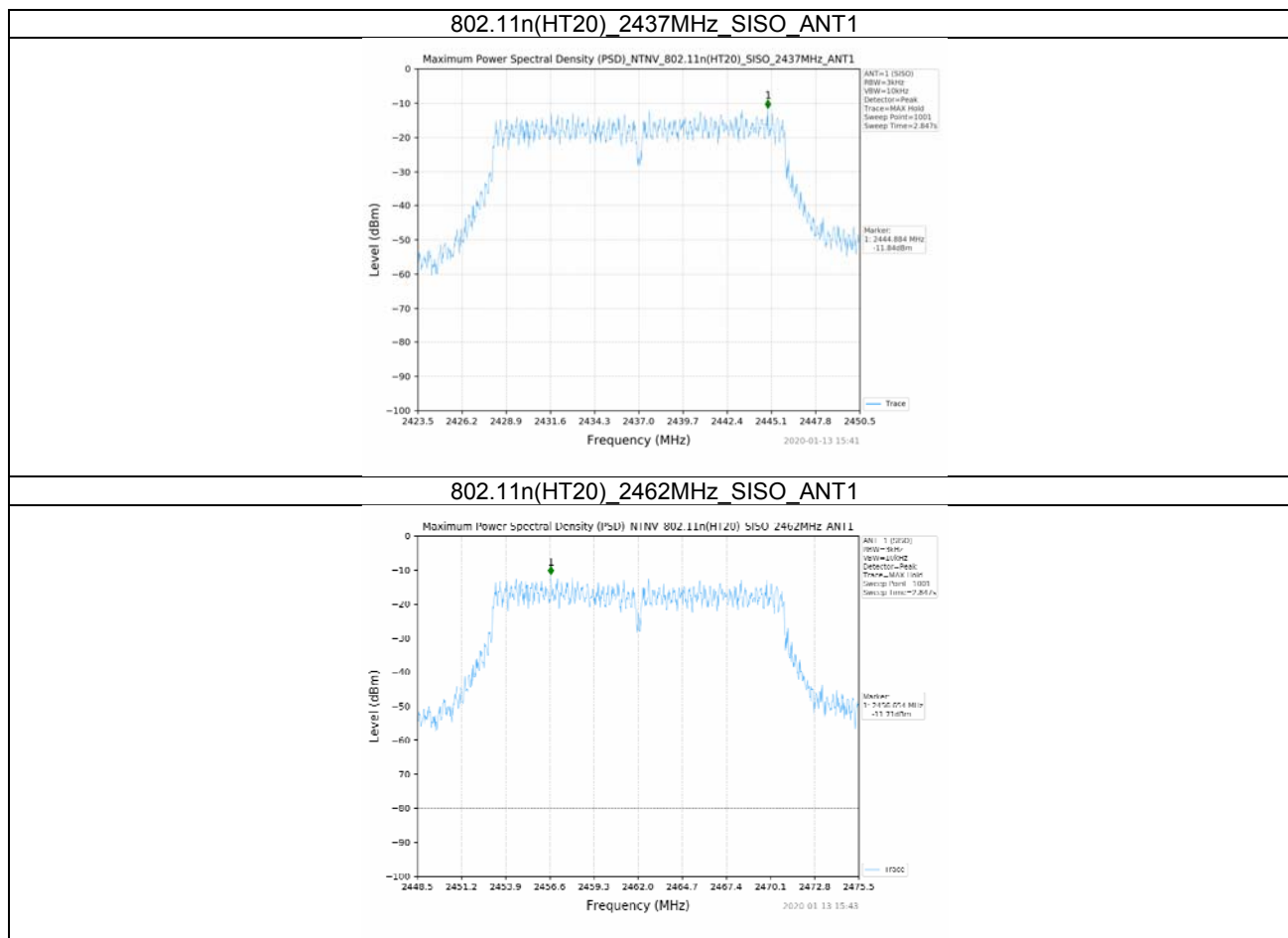


### 802.11g\_2462MHz\_SISO\_ANT1



### 802.11n(HT20)\_2412MHz\_SISO\_ANT1





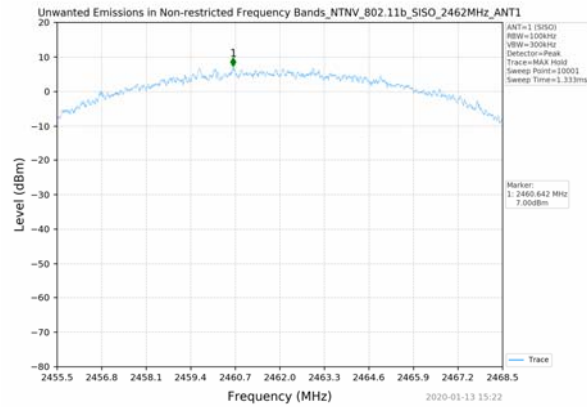
## 5. Unwanted Emissions in Non-restricted Frequency Bands

### 5.1 Test Result

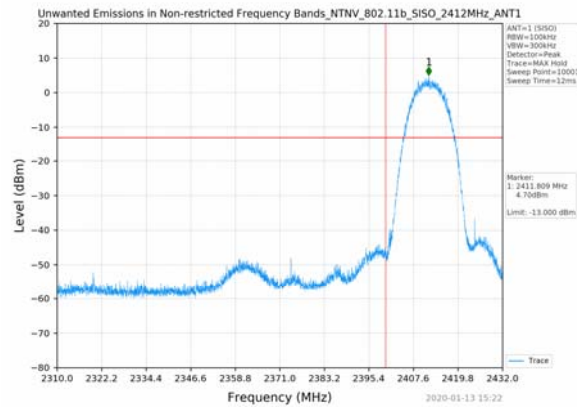
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-13.00	PASS
	2437	SISO	1	Refer to test graph	-13.00	PASS
	2462	SISO	1	Refer to test graph	-13.00	PASS
802.11g	2412	SISO	1	Refer to test graph	-16.22	PASS
	2437	SISO	1	Refer to test graph	-16.22	PASS
	2462	SISO	1	Refer to test graph	-16.22	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-17.06	PASS
	2437	SISO	1	Refer to test graph	-17.06	PASS
	2462	SISO	1	Refer to test graph	-17.06	PASS

### 5.2 Test Graph

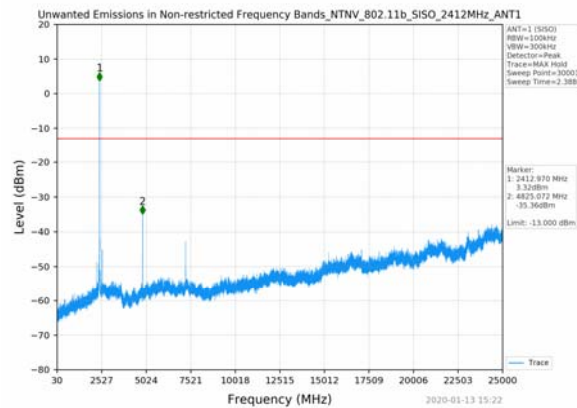
### 802.11b\_SISO\_ANT1\_REF



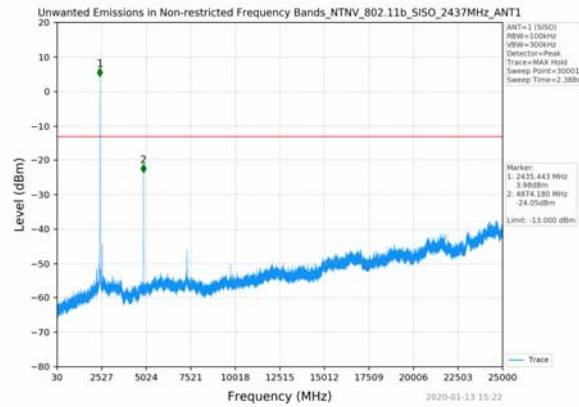
### 802.11b\_2412MHz\_SISO\_ANT1



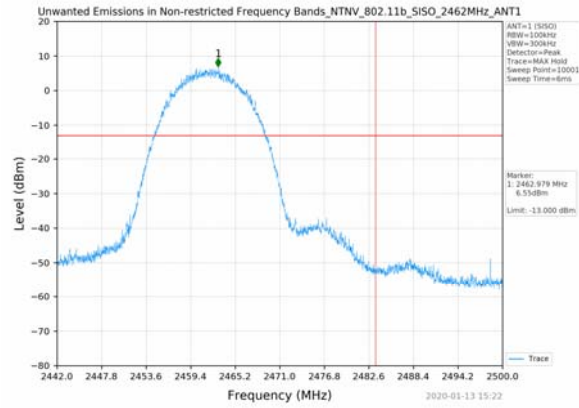
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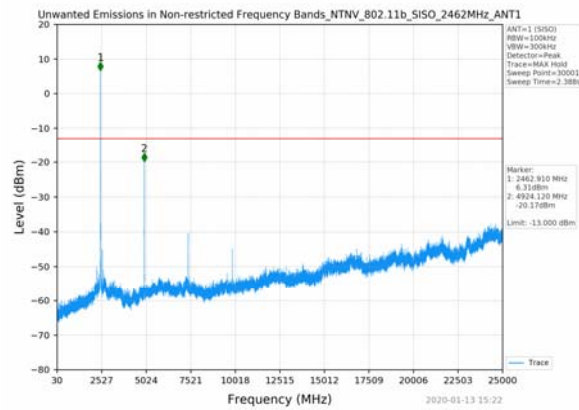
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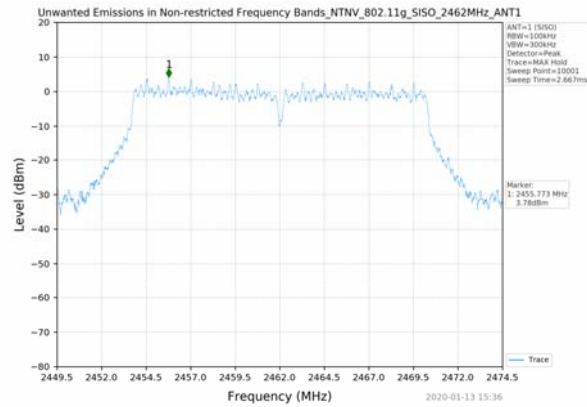
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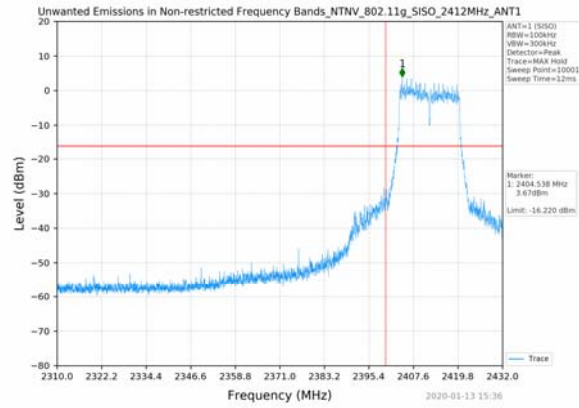
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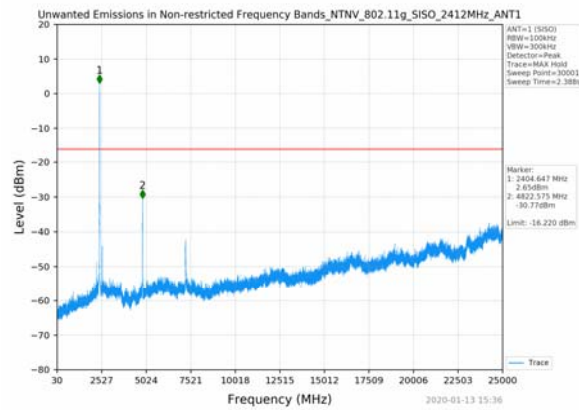
### 802.11g\_SISO\_ANT1\_REF



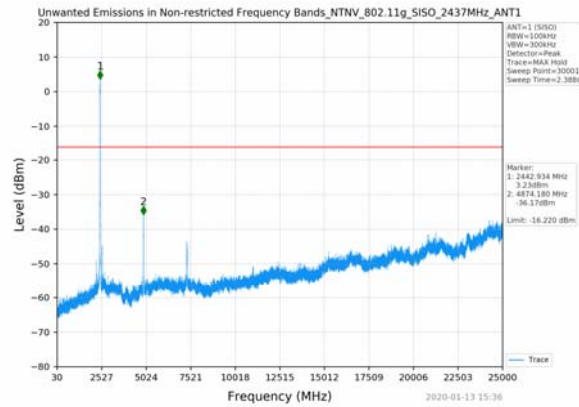
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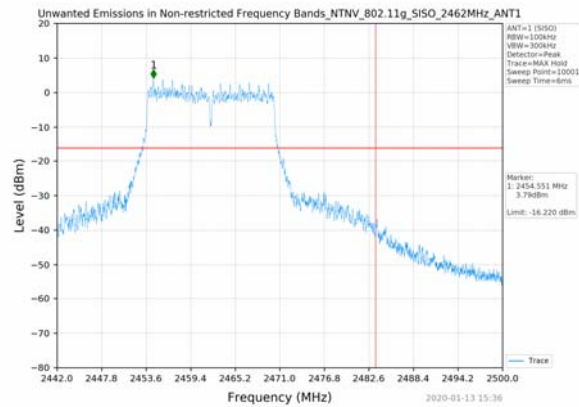
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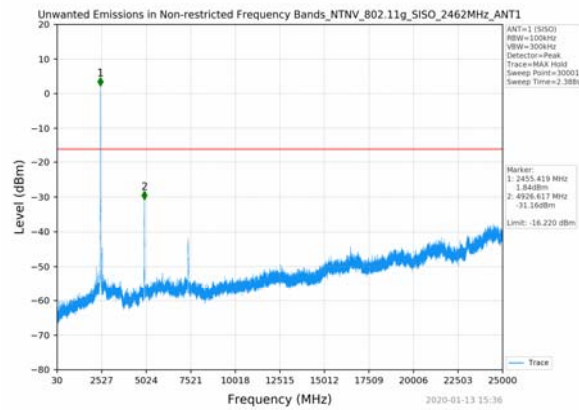
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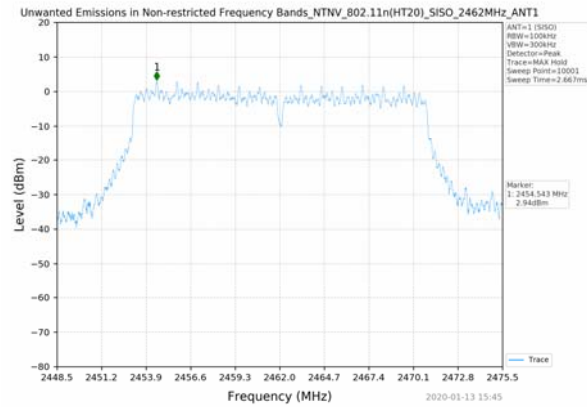
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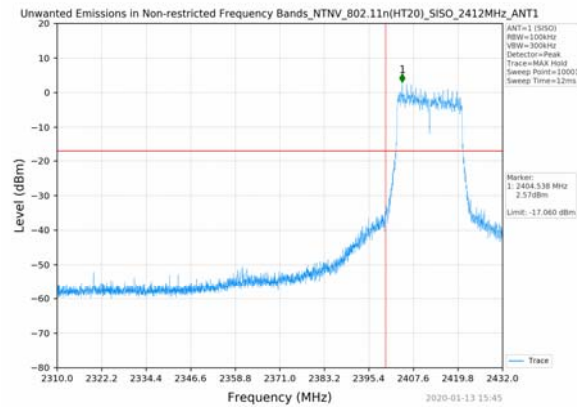
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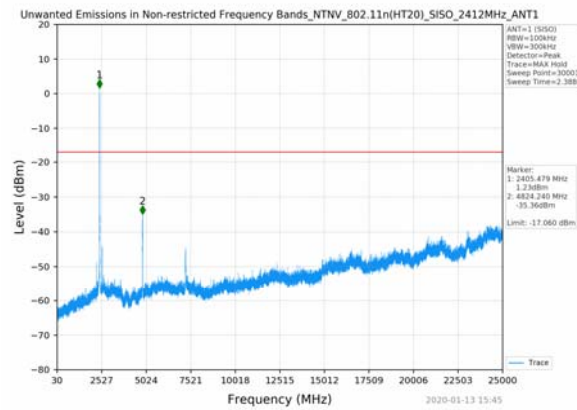
### 802.11n(HT20)\_SISO\_ANT1\_REF



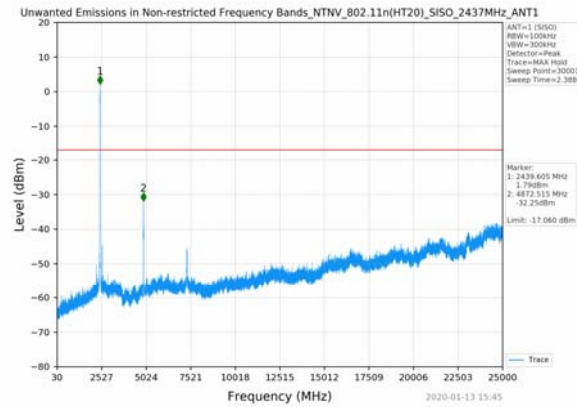
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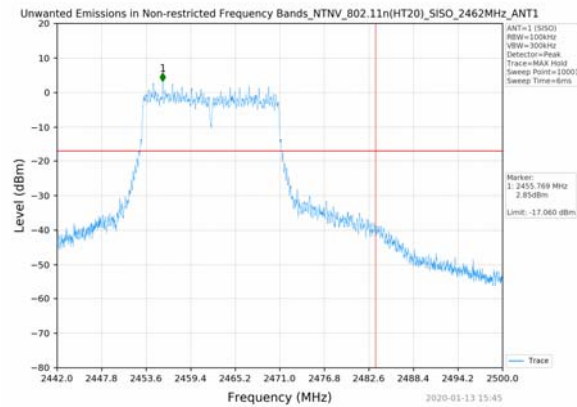
### 802.11n(HT20)\_2412MHz\_SISO\_ANT1



### 802.11n(HT20)\_2437MHz\_SISO\_ANT1



### 802.11n(HT20)\_2462MHz\_SISO\_ANT1



### 802.11n(HT20)\_2462MHz\_SISO\_ANT1

