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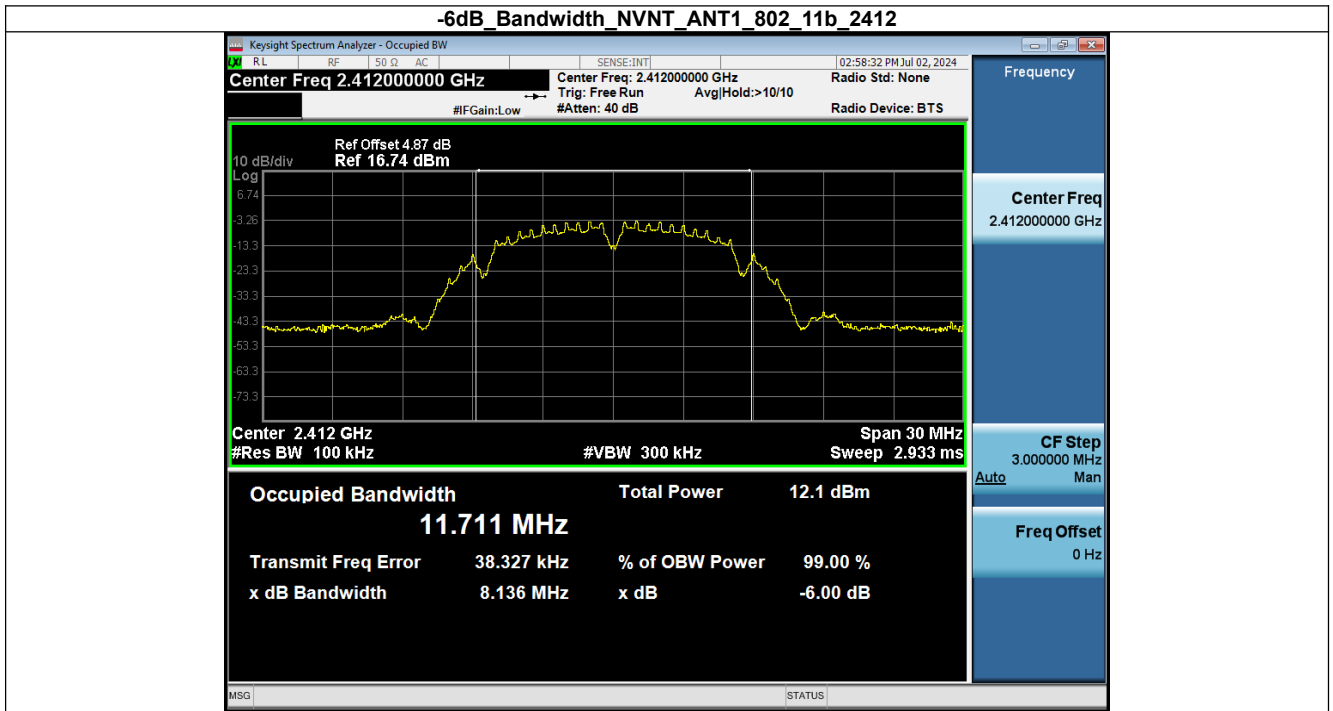
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# FCC ID:2BHGC-M30B

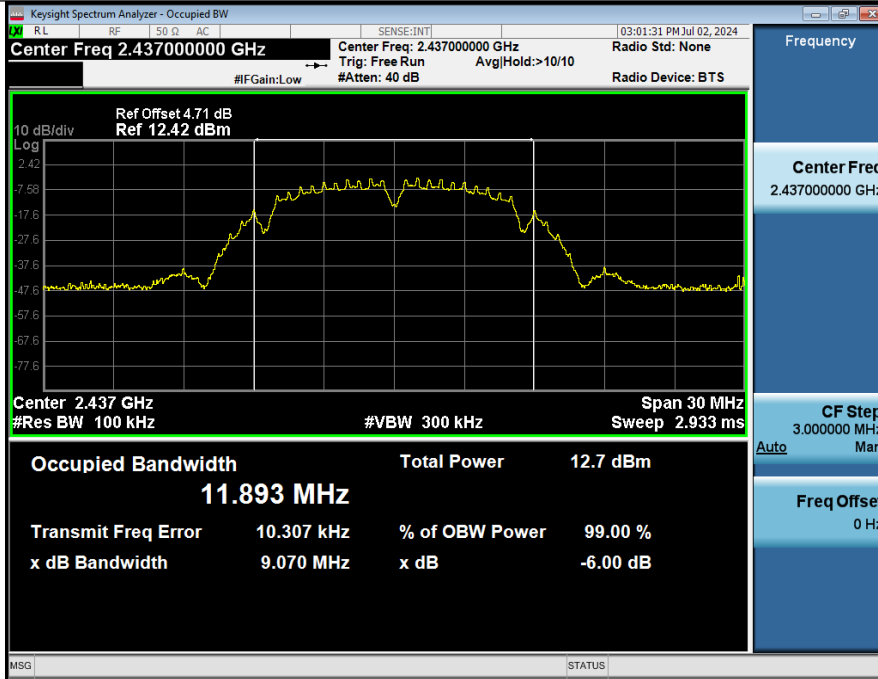
## FCC\_2.4G\_WIFI (Part15.247) Test Data

### 1. -6dB Bandwidth

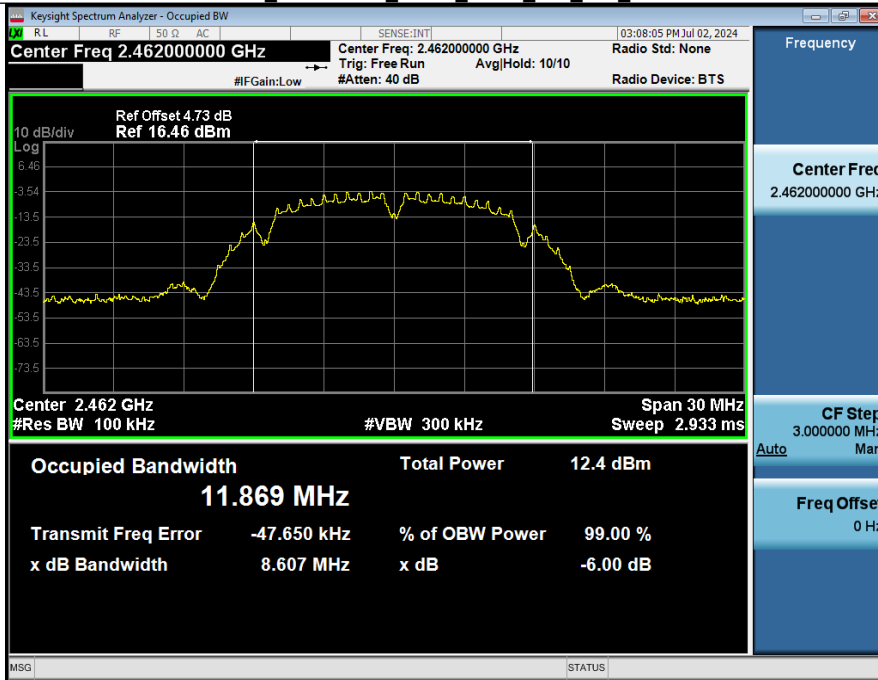
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.14	500	Pass
NVNT	ANT1	802.11b	2437.00	9.07	500	Pass
NVNT	ANT1	802.11b	2462.00	8.61	500	Pass
NVNT	ANT1	802.11g	2412.00	16.08	500	Pass
NVNT	ANT1	802.11g	2437.00	16.15	500	Pass
NVNT	ANT1	802.11g	2462.00	16.10	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.90	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.14	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.12	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.84	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.64	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.61	500	Pass



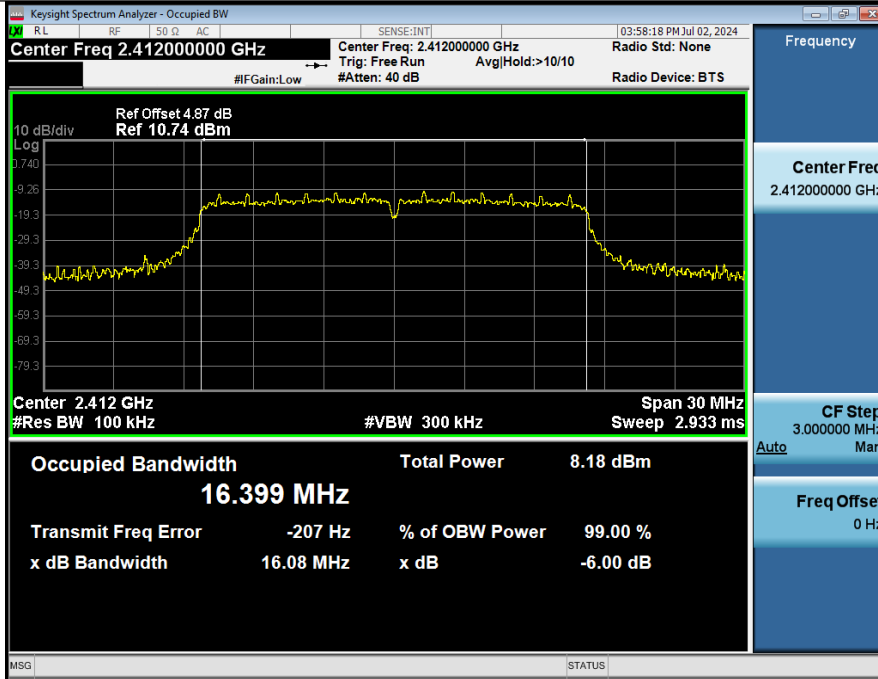
**-6dB Bandwidth\_NVNT\_ANT1\_802\_11b\_2437**



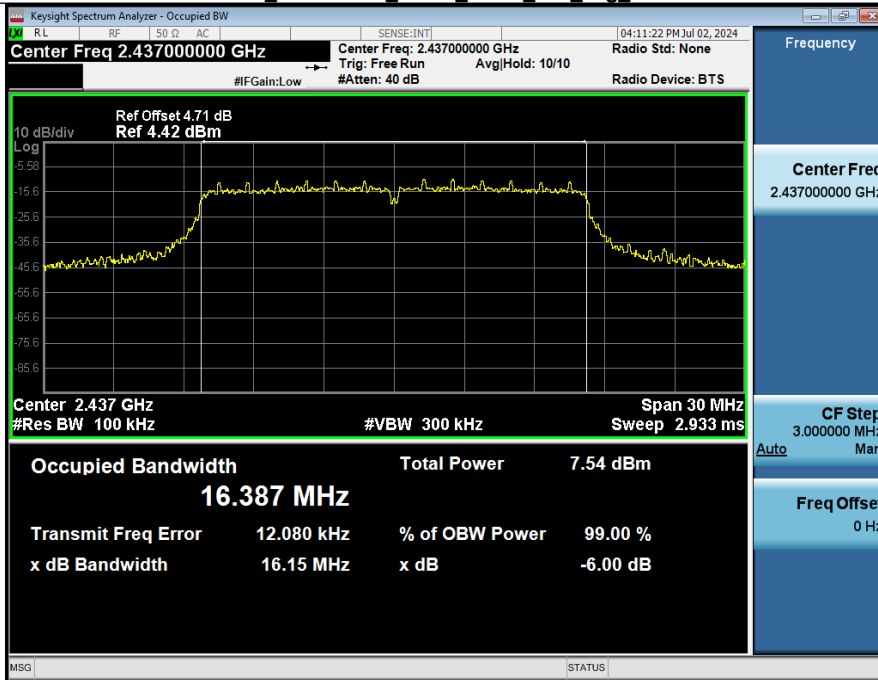
**-6dB Bandwidth\_NVNT\_ANT1\_802\_11b\_2462**



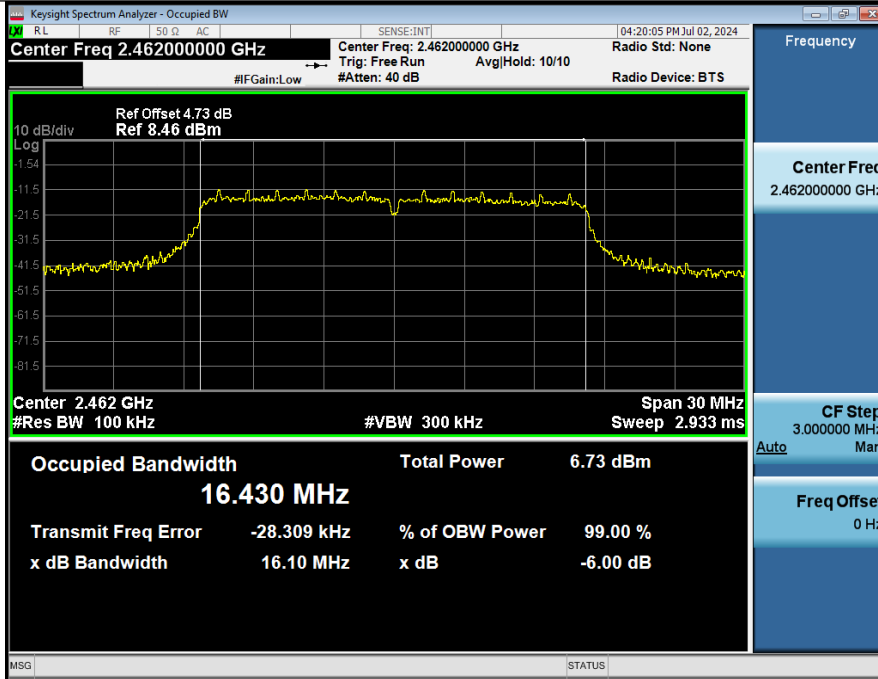
**-6dB Bandwidth\_NVNT\_ANT1\_802\_11g\_2412**



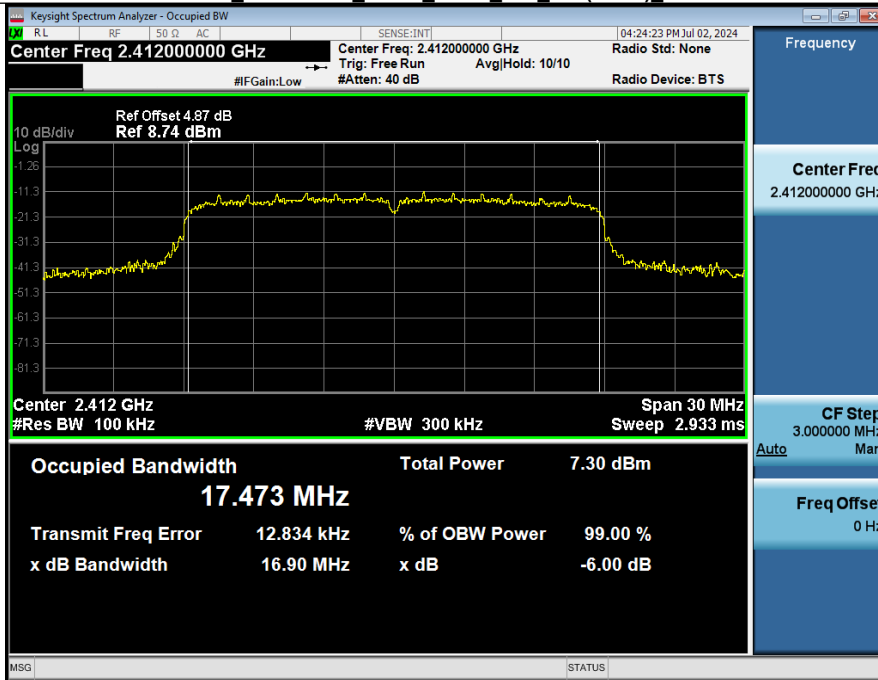
**-6dB Bandwidth\_NVNT\_ANT1\_802\_11g\_2437**



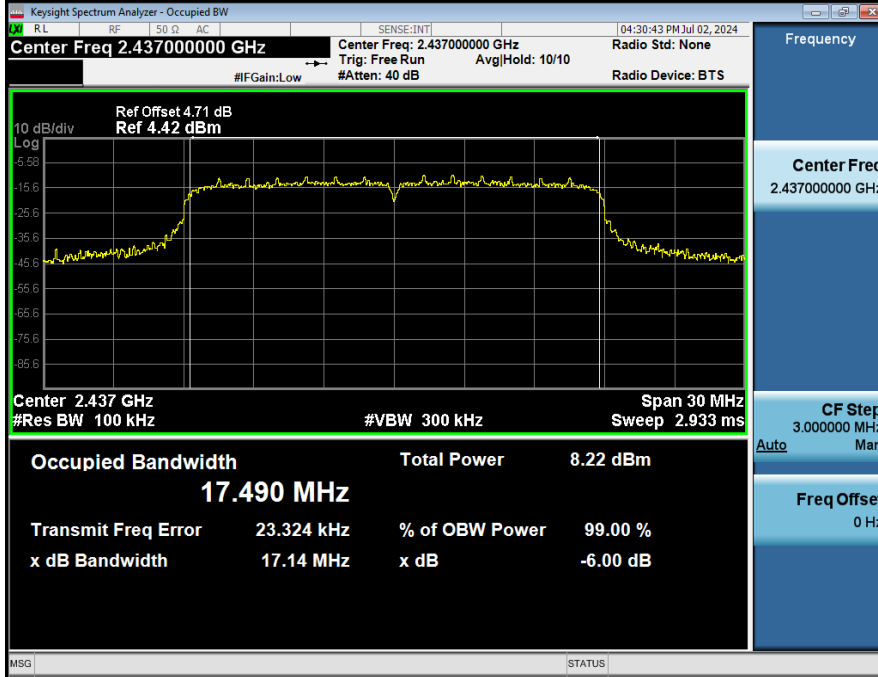
**-6dB Bandwidth\_NVNT\_ANT1\_802\_11g\_2462**



**-6dB Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2412**



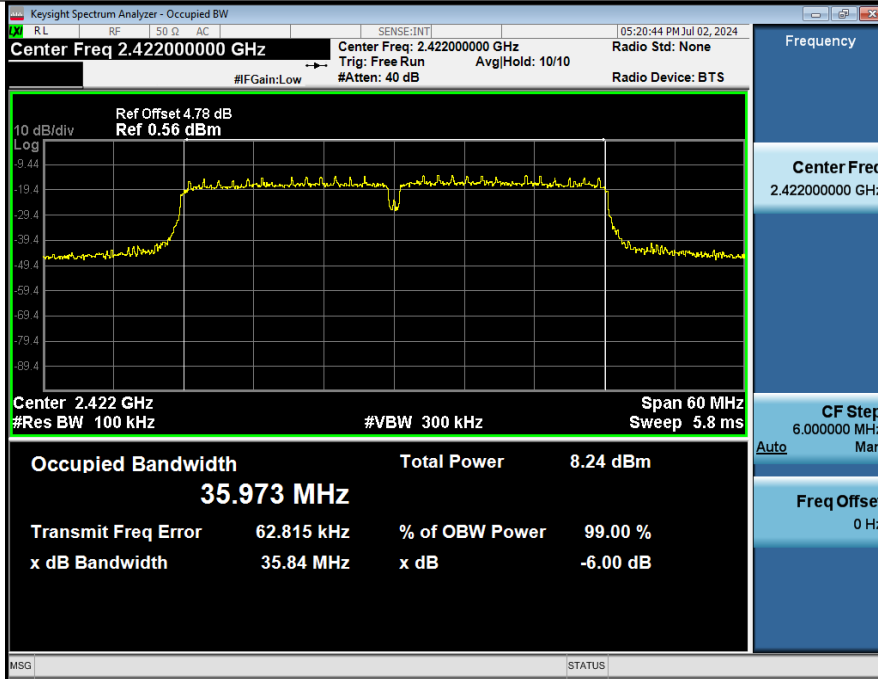
**-6dB Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2437**



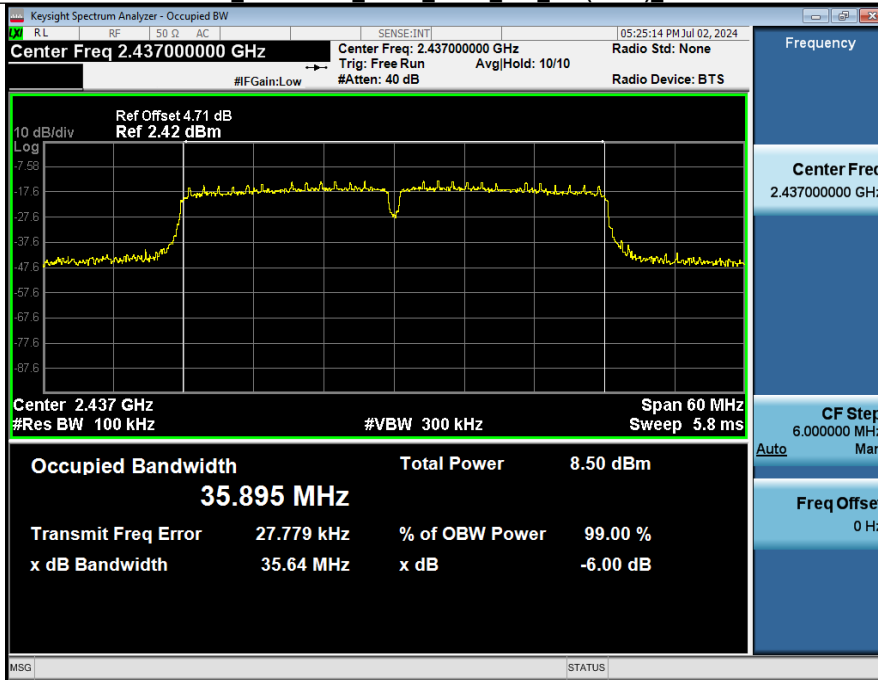
**-6dB Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2462**



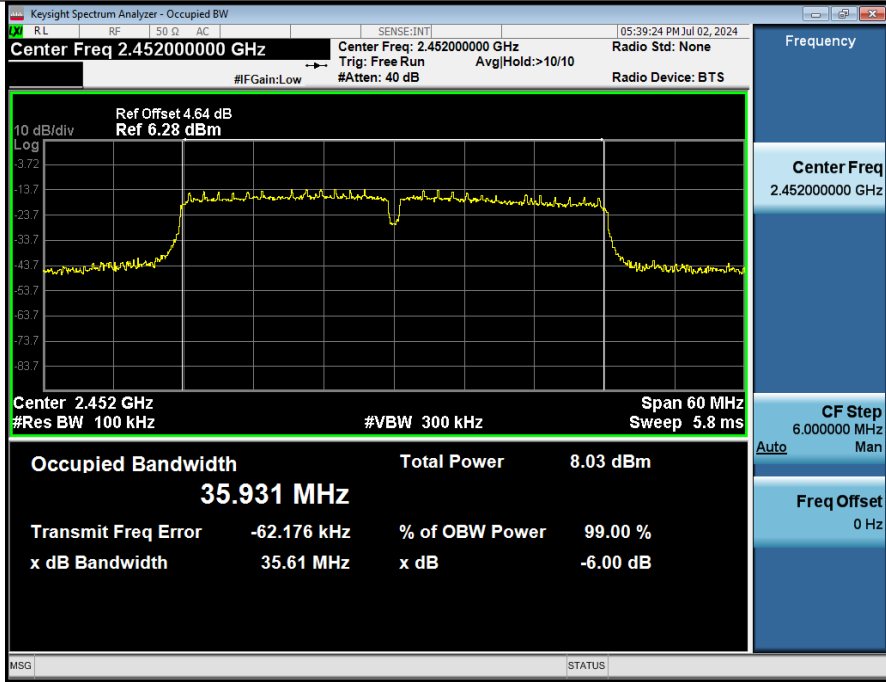
**-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2422**



**-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2437**



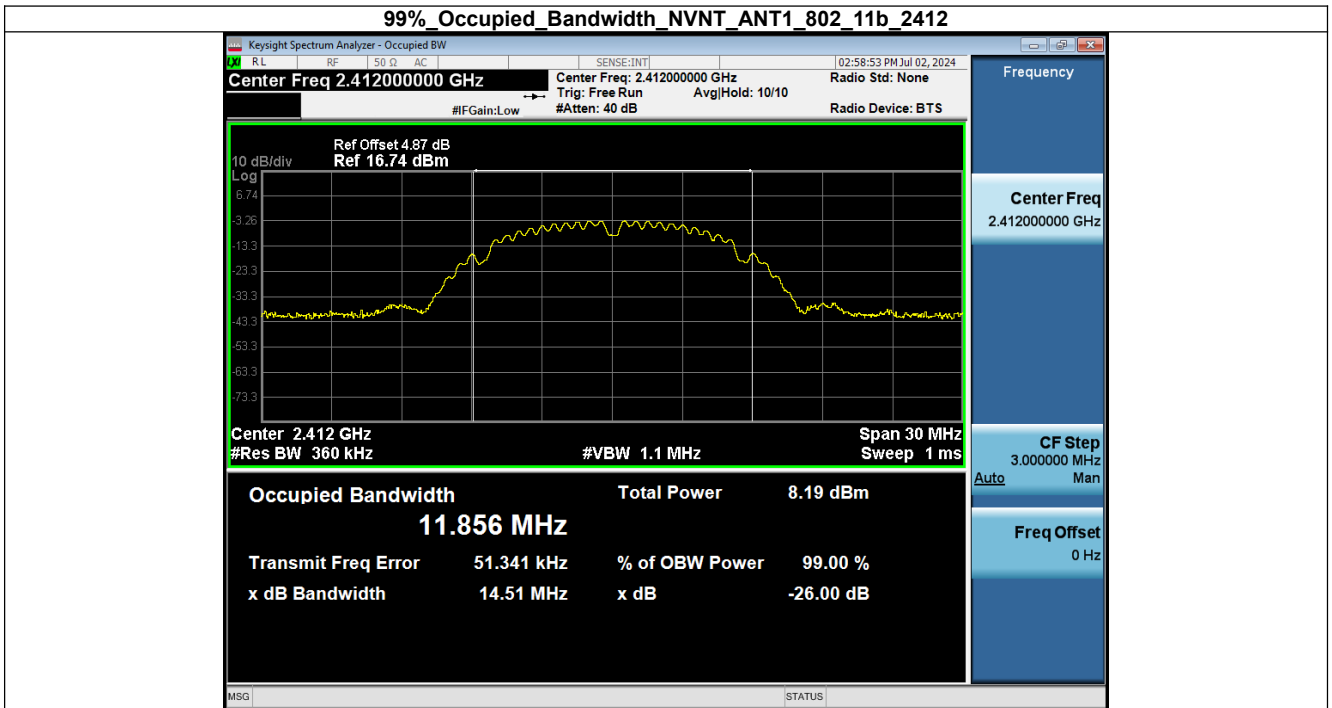
**-6dB\_Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2452**



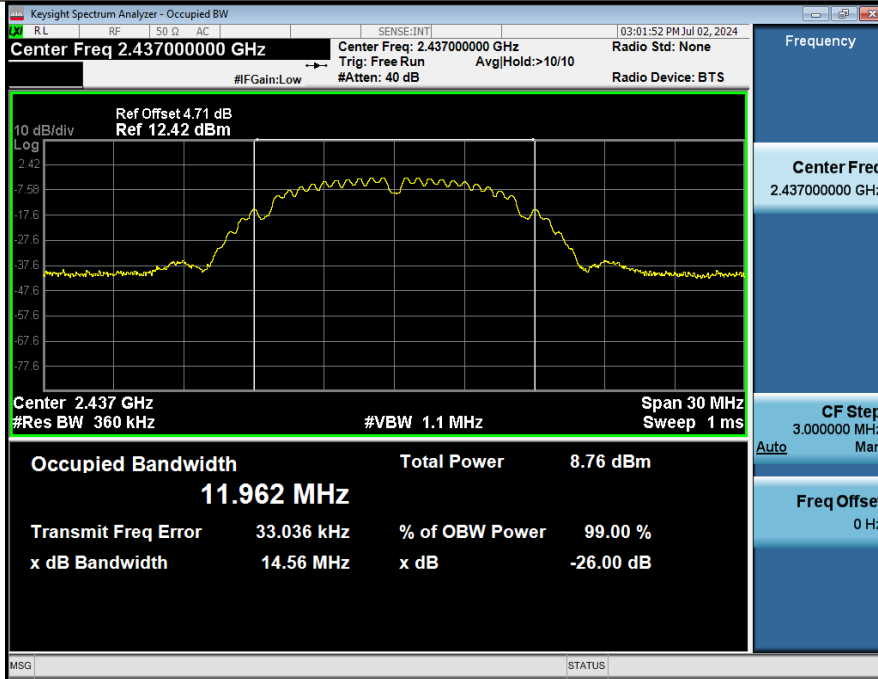


## 2. 99% Occupied Bandwidth

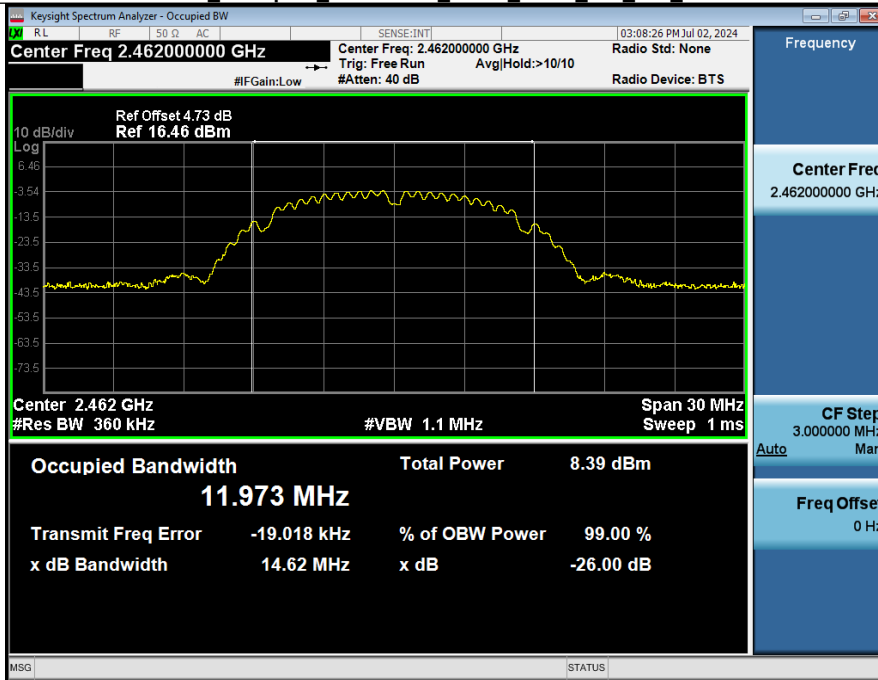
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.856
NVNT	ANT1	802.11b	2437.00	11.962
NVNT	ANT1	802.11b	2462.00	11.973
NVNT	ANT1	802.11g	2412.00	17.003
NVNT	ANT1	802.11g	2437.00	16.997
NVNT	ANT1	802.11g	2462.00	17.148
NVNT	ANT1	802.11n(HT20)	2412.00	17.724
NVNT	ANT1	802.11n(HT20)	2437.00	17.717
NVNT	ANT1	802.11n(HT20)	2462.00	17.875
NVNT	ANT1	802.11n(HT40)	2422.00	36.459
NVNT	ANT1	802.11n(HT40)	2437.00	36.289
NVNT	ANT1	802.11n(HT40)	2452.00	36.361



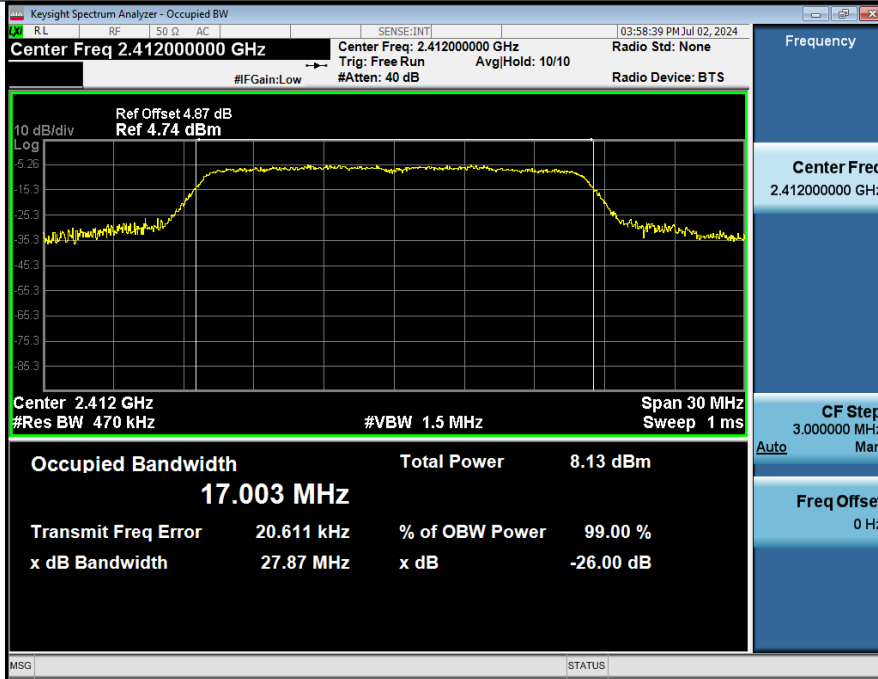
99% Occupied Bandwidth NVNT\_ANT1\_802\_11b\_2437



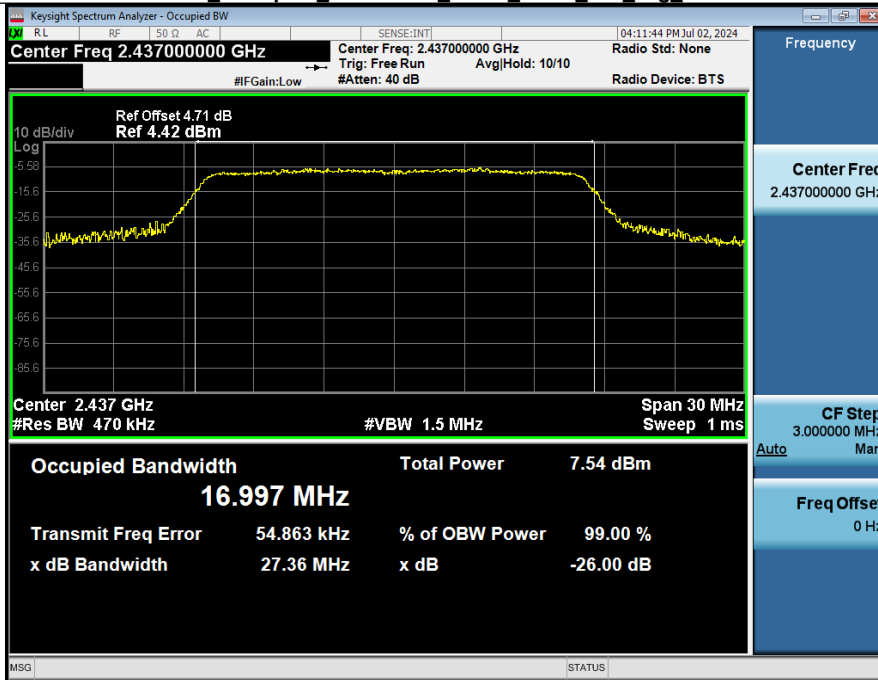
99% Occupied Bandwidth NVNT\_ANT1\_802\_11b\_2462



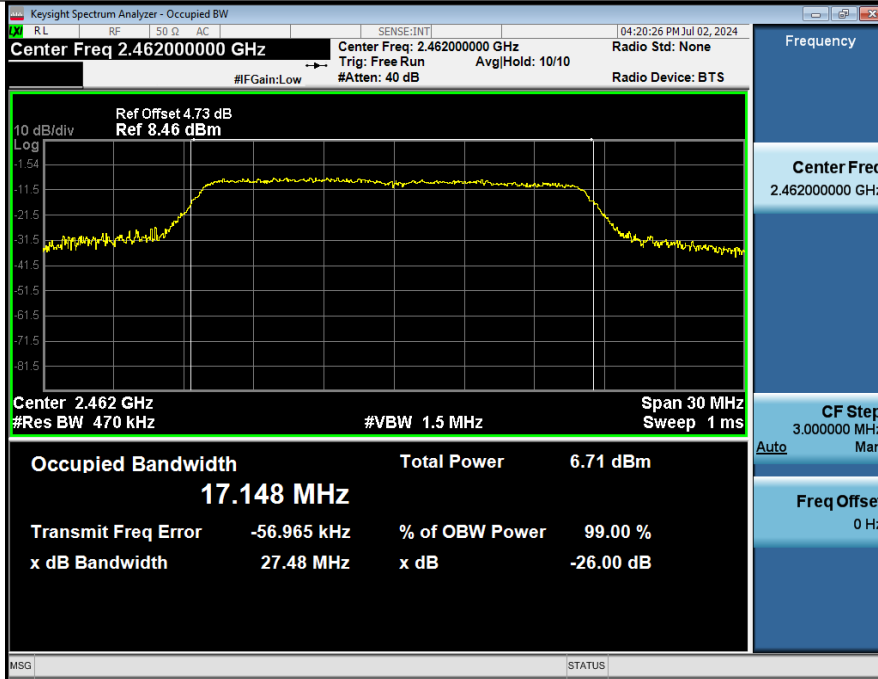
99% Occupied Bandwidth NVNT\_ANT1\_802\_11g\_2412



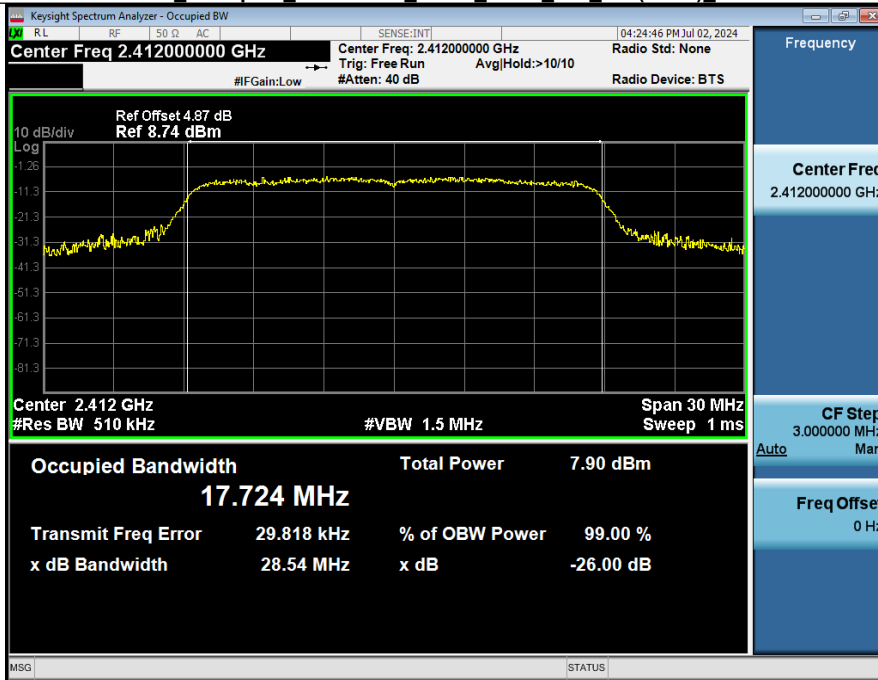
99% Occupied Bandwidth NVNT\_ANT1\_802\_11g\_2437



99% Occupied Bandwidth NVNT\_ANT1\_802\_11g\_2462



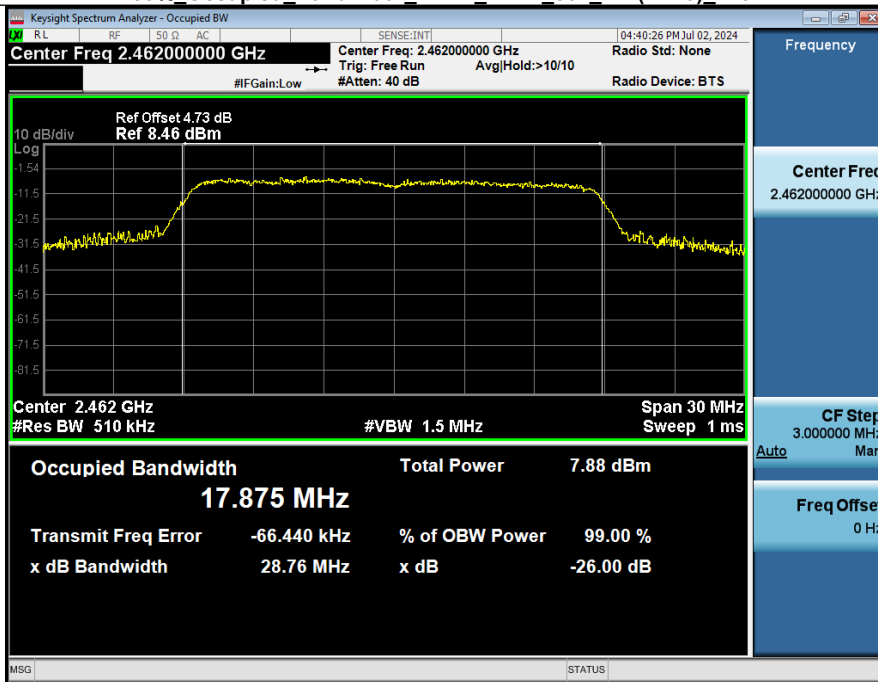
99% Occupied Bandwidth NVNT\_ANT1\_802\_11n(HT20)\_2412



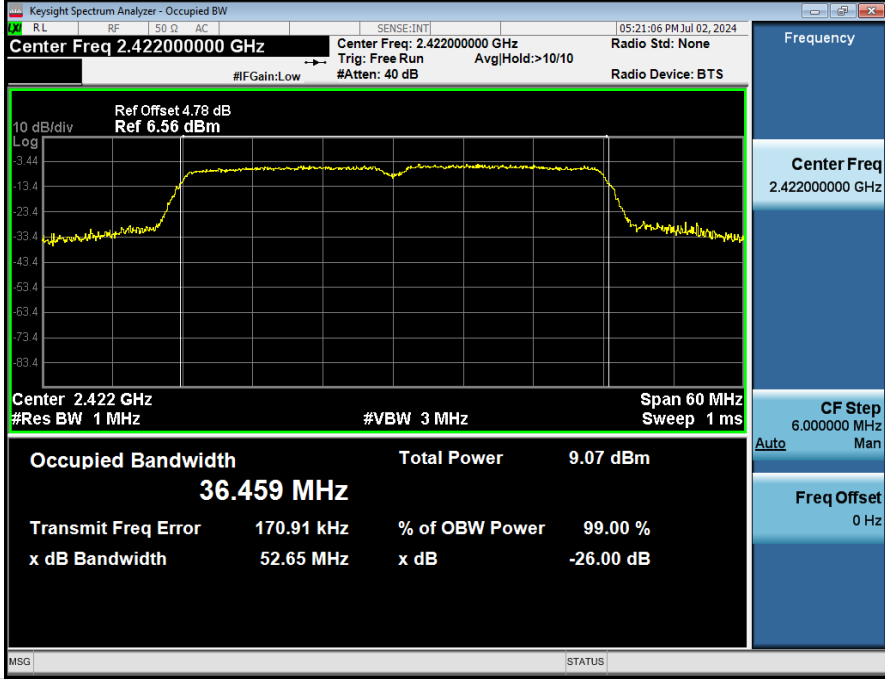
99% Occupied Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2437



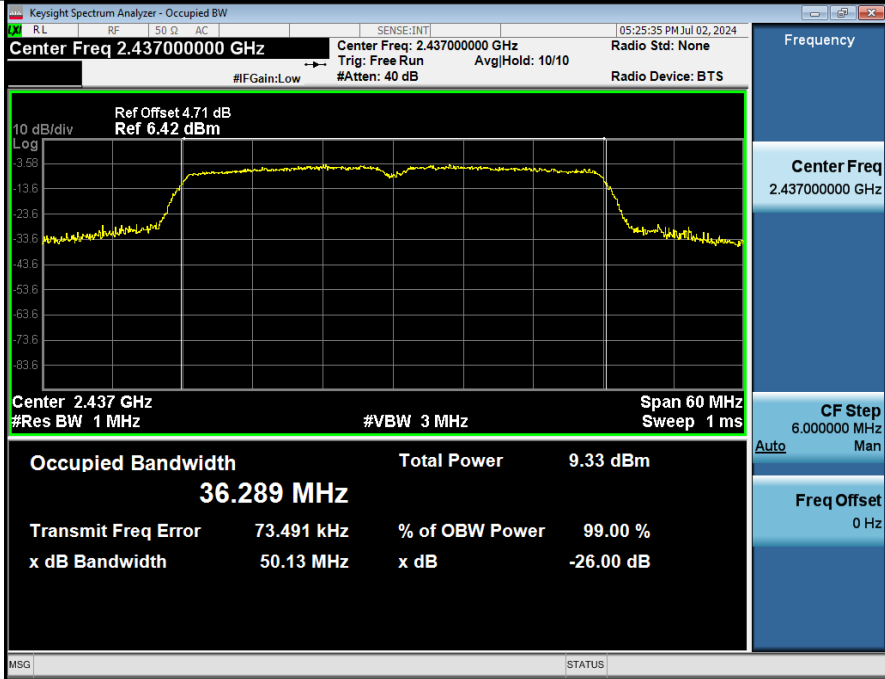
99% Occupied Bandwidth\_NVNT\_ANT1\_802\_11n(HT20)\_2462



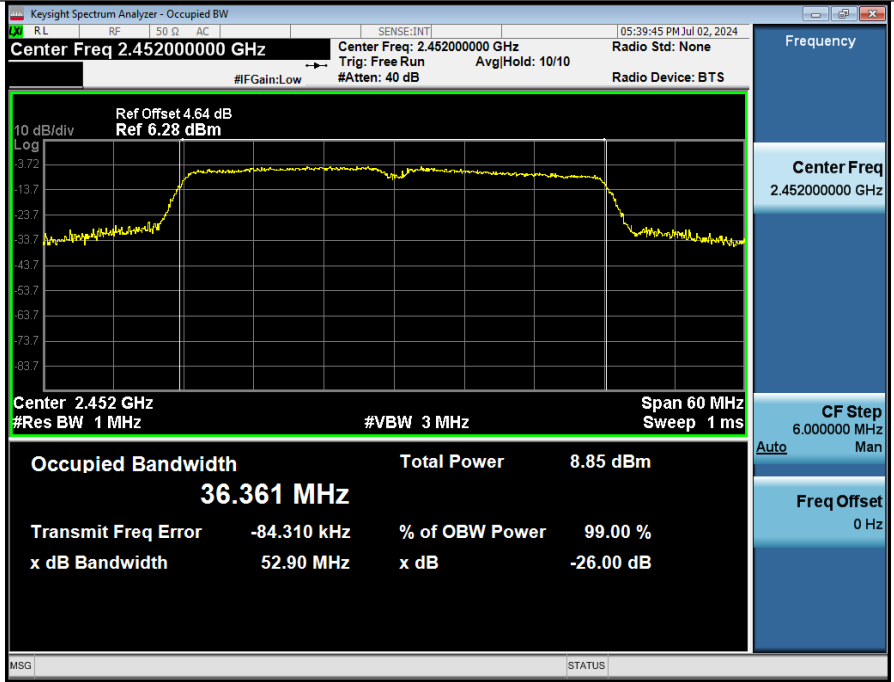
99% Occupied Bandwidth NVNT\_ANT1\_802\_11n(HT40)\_2422



99% Occupied Bandwidth NVNT\_ANT1\_802\_11n(HT40)\_2437

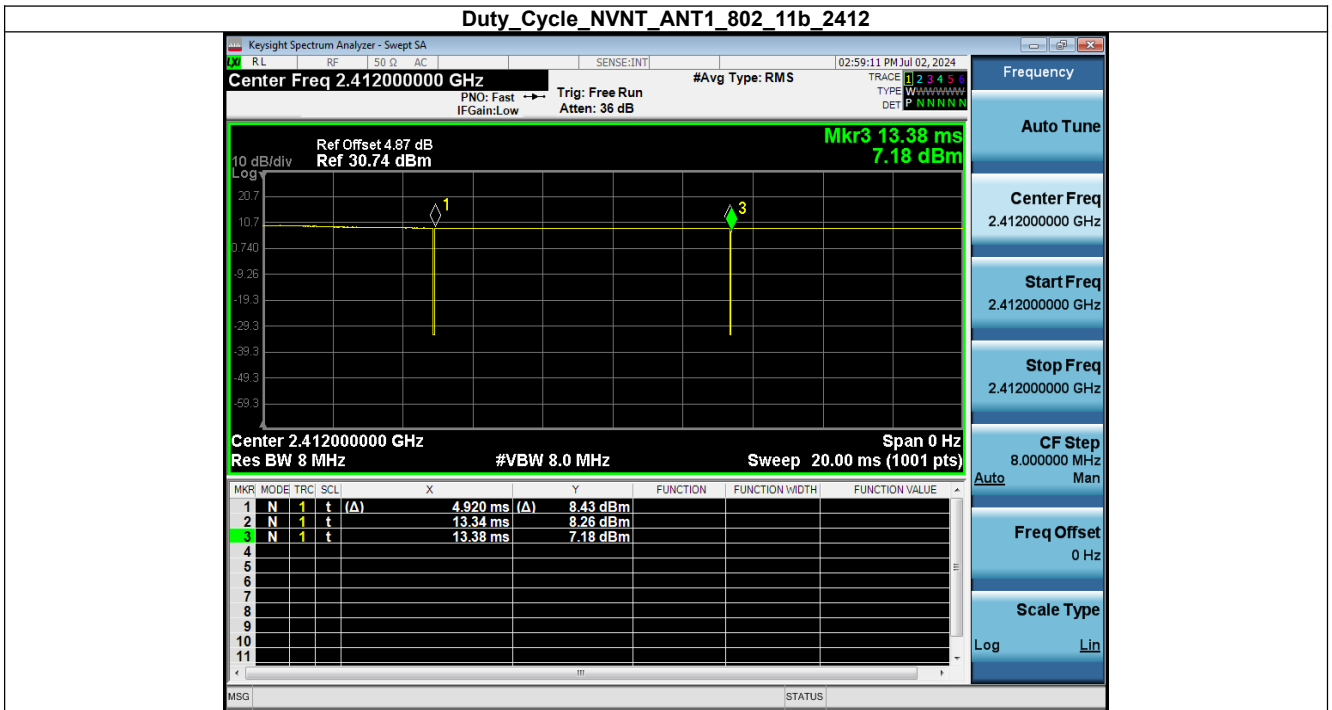


99% Occupied Bandwidth\_NVNT\_ANT1\_802\_11n(HT40)\_2452



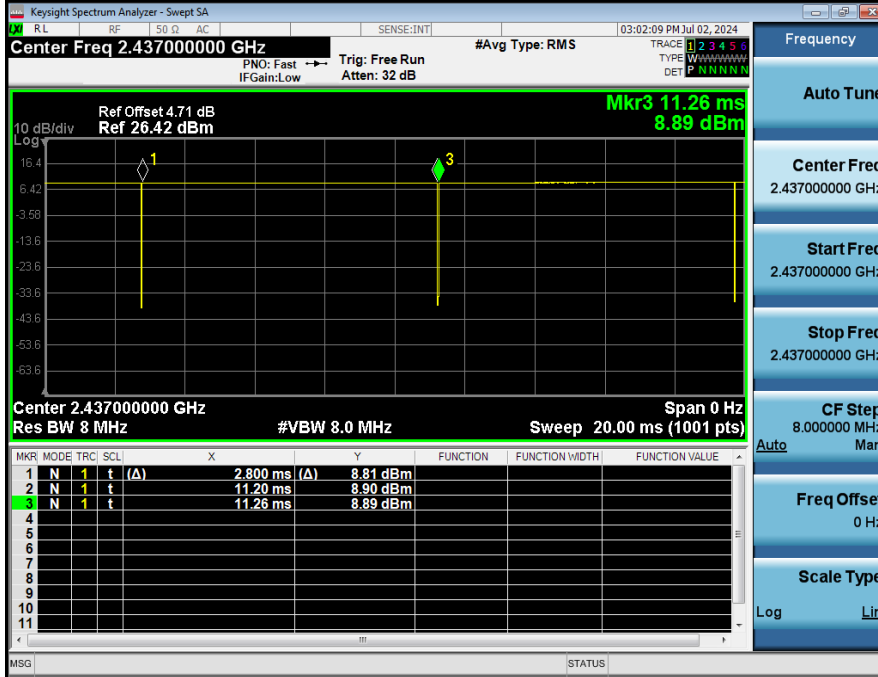
### 3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.22	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28

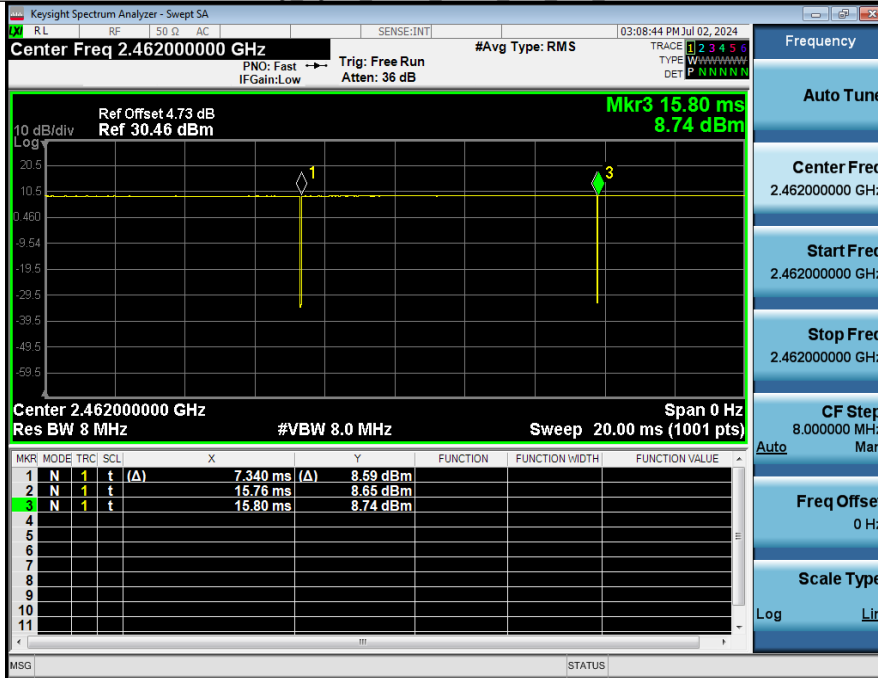




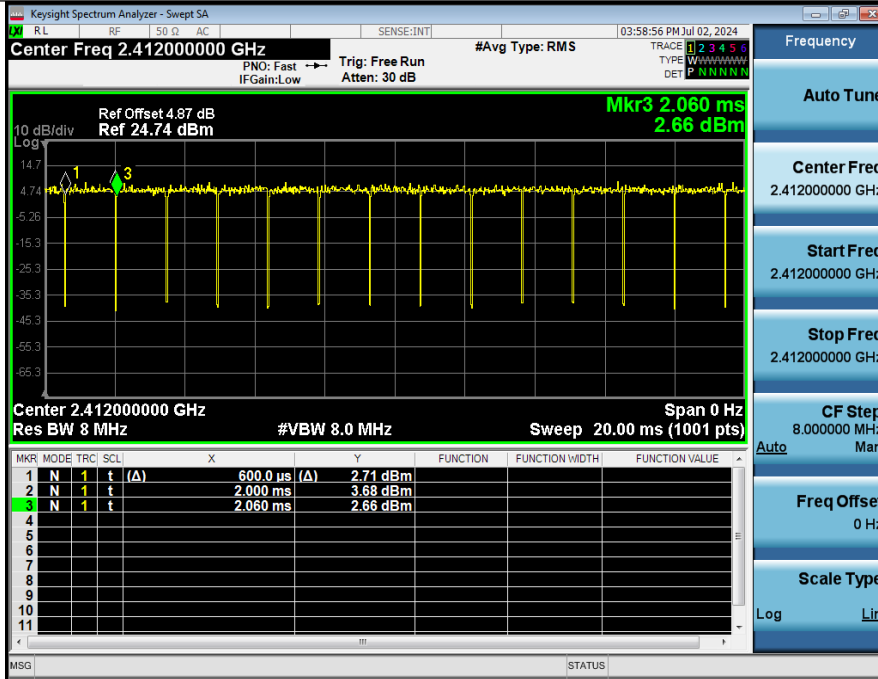
Duty Cycle NVNT\_ANT1\_802\_11b\_2437



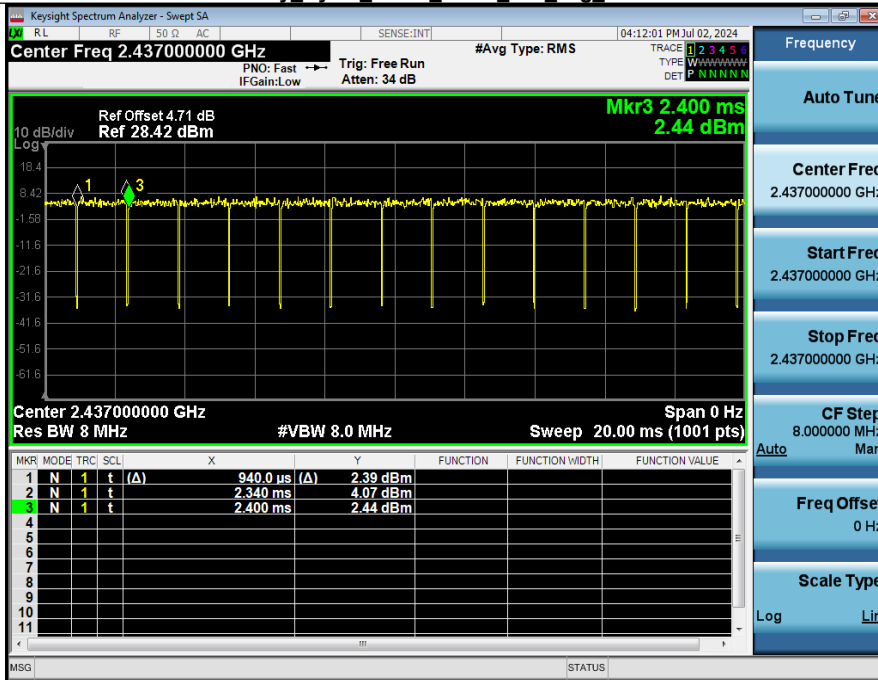
Duty Cycle NVNT\_ANT1\_802\_11b\_2462



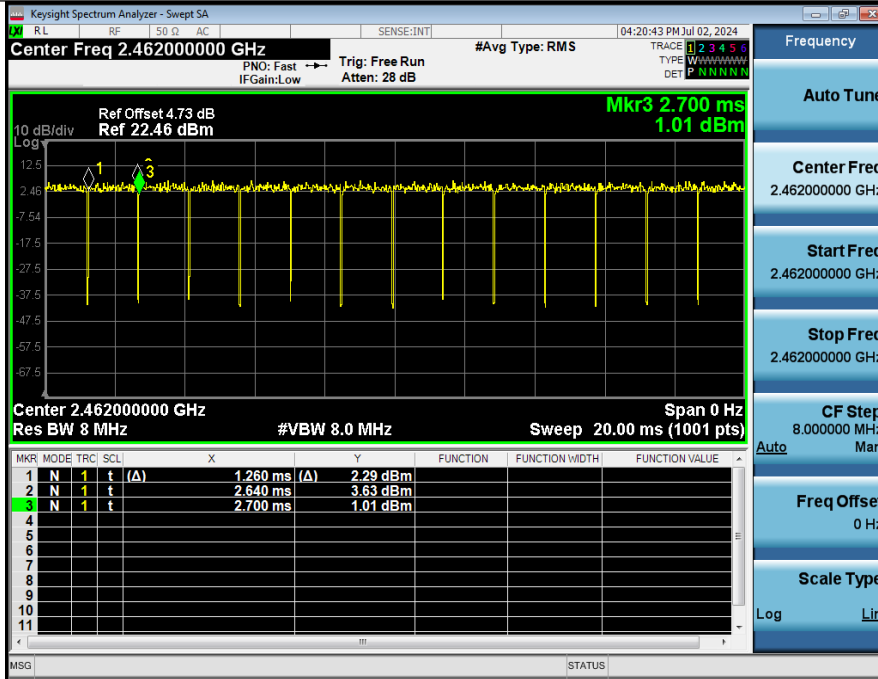
### Duty Cycle NVNT\_ANT1\_802\_11g\_2412



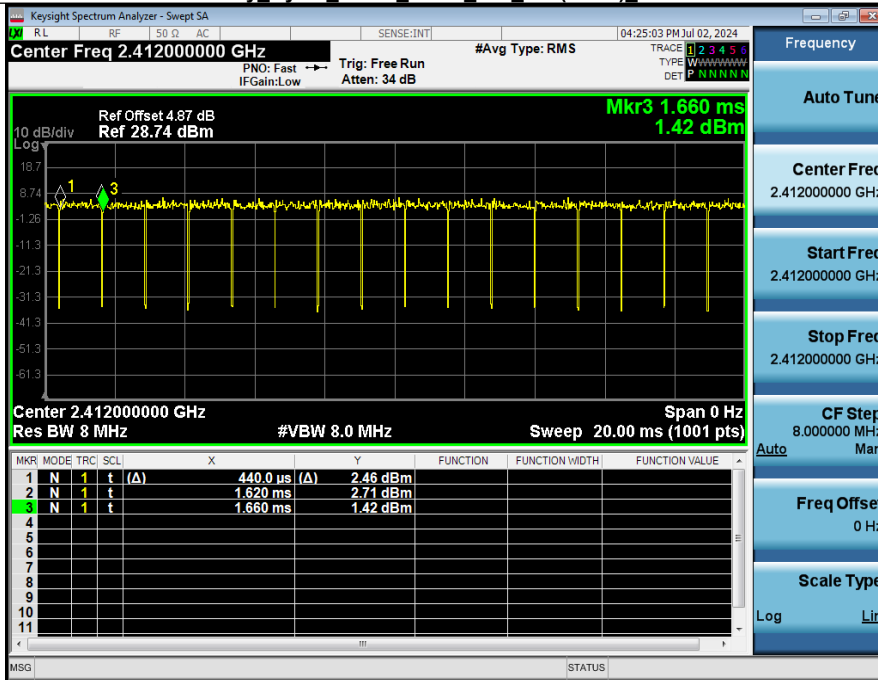
### Duty Cycle NVNT\_ANT1\_802\_11g\_2437



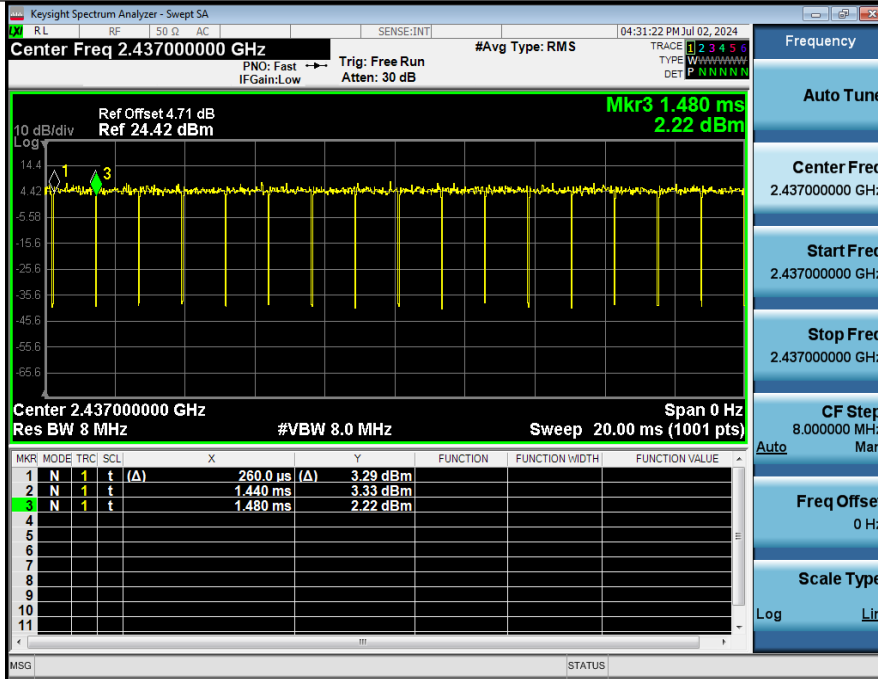
### Duty Cycle NVNT\_ANT1\_802\_11g\_2462



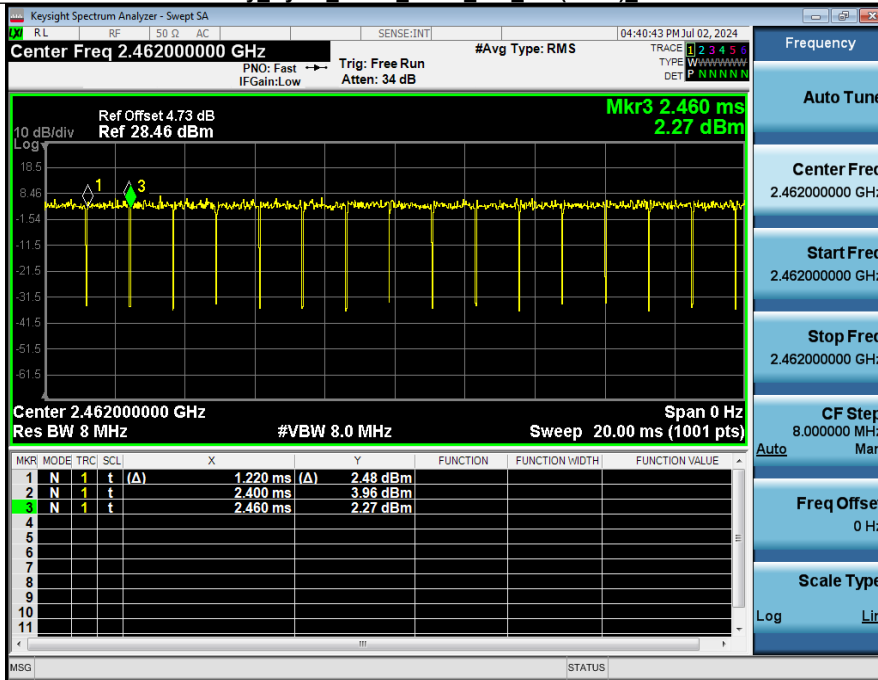
### Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_2412



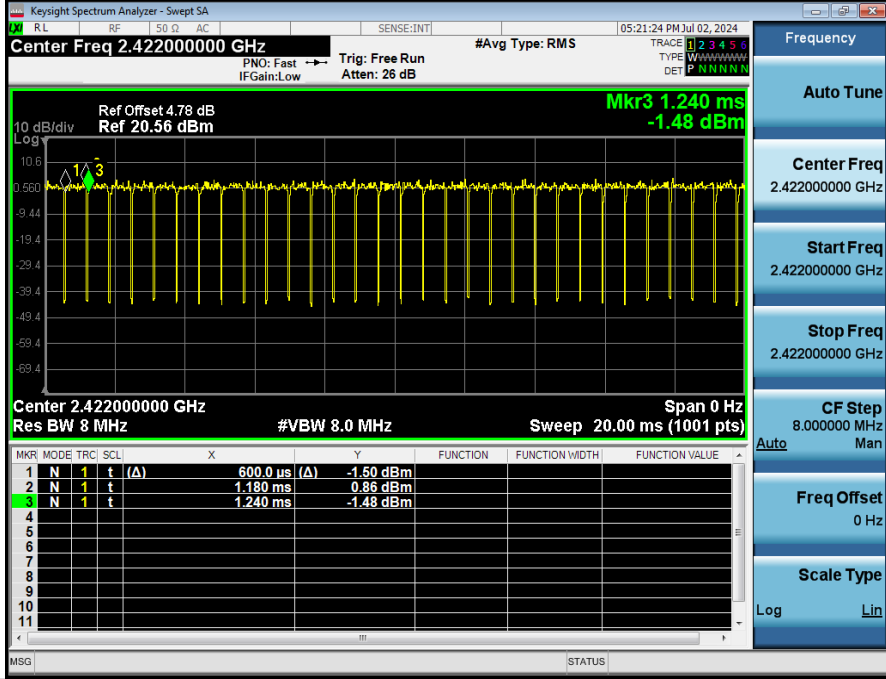
### Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_2437



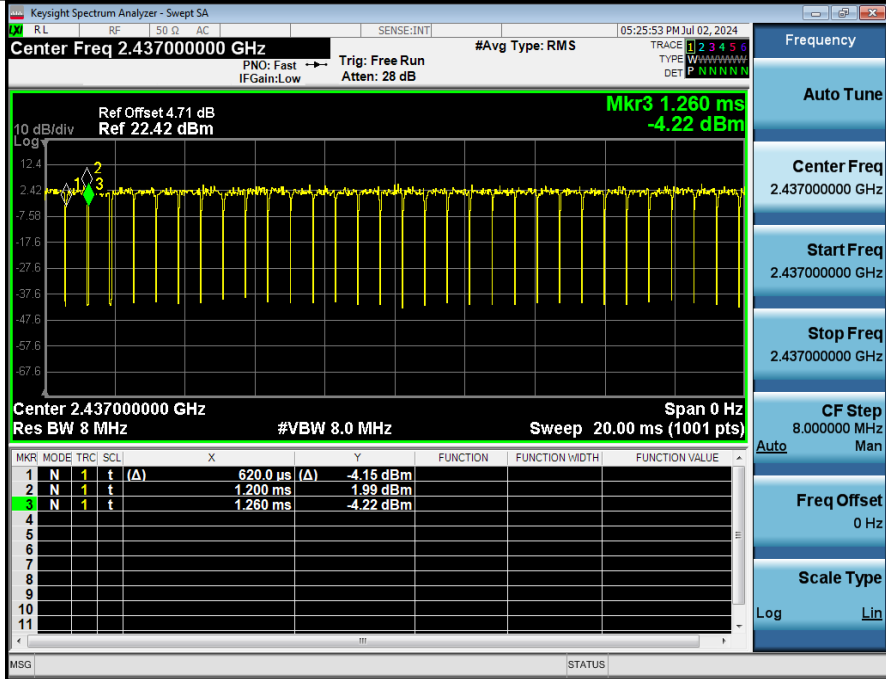
### Duty Cycle NVNT\_ANT1\_802\_11n(HT20)\_2462



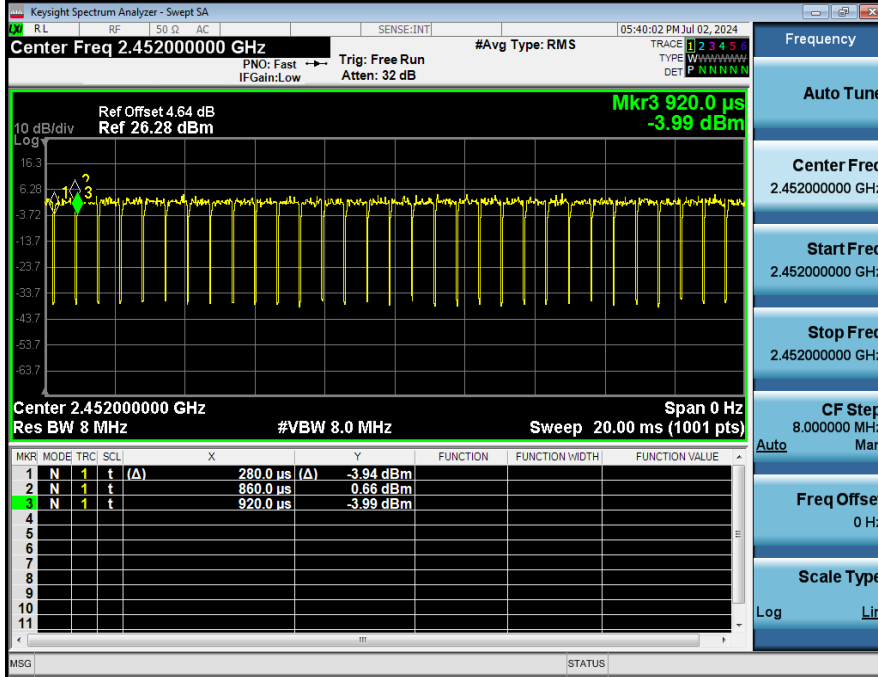
Duty Cycle NVNT\_ANT1\_802\_11n(HT40)\_2422



Duty Cycle NVNT\_ANT1\_802\_11n(HT40)\_2437



### Duty Cycle NVNT\_ANT1\_802\_11n(HT40)\_2452

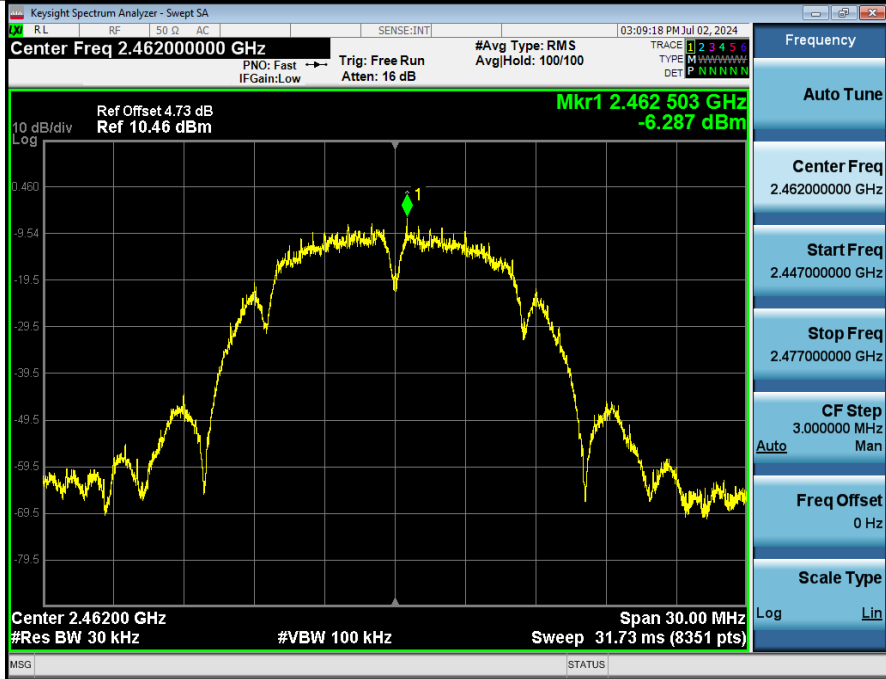




Power Spectral Density NVNT\_ANT1\_802\_11b\_2437

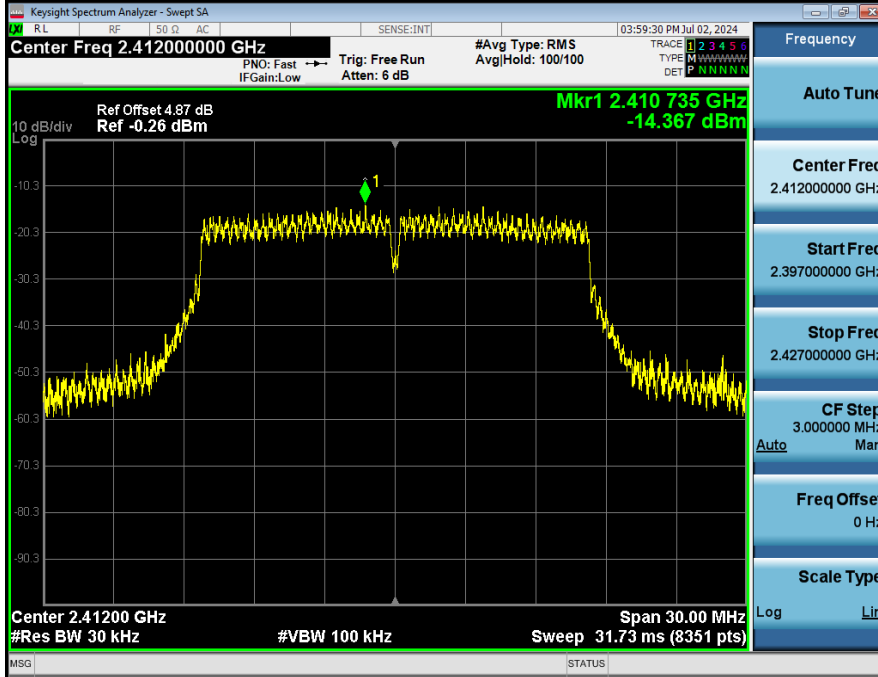


Power Spectral Density NVNT\_ANT1\_802\_11b\_2462

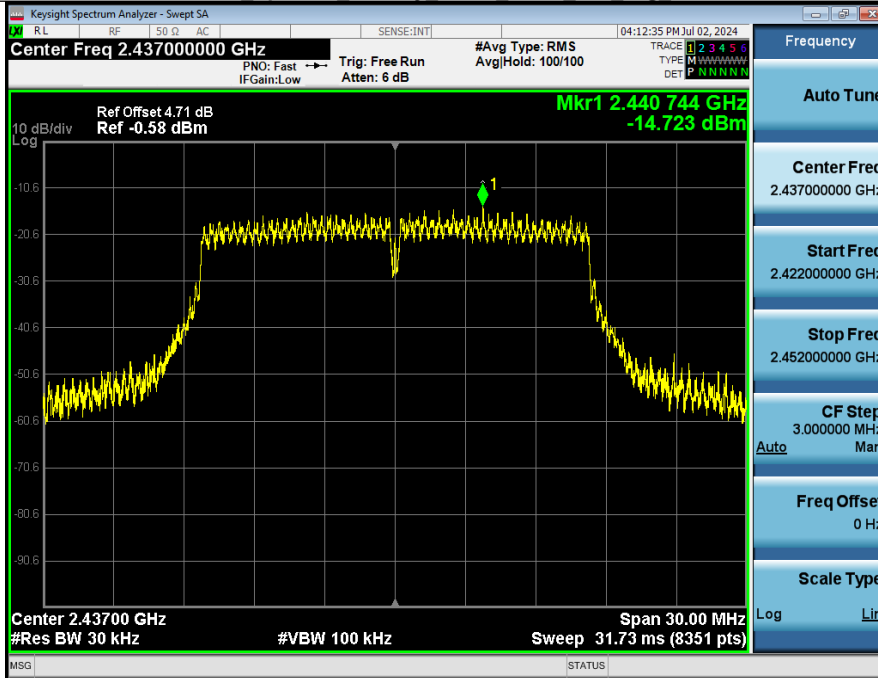




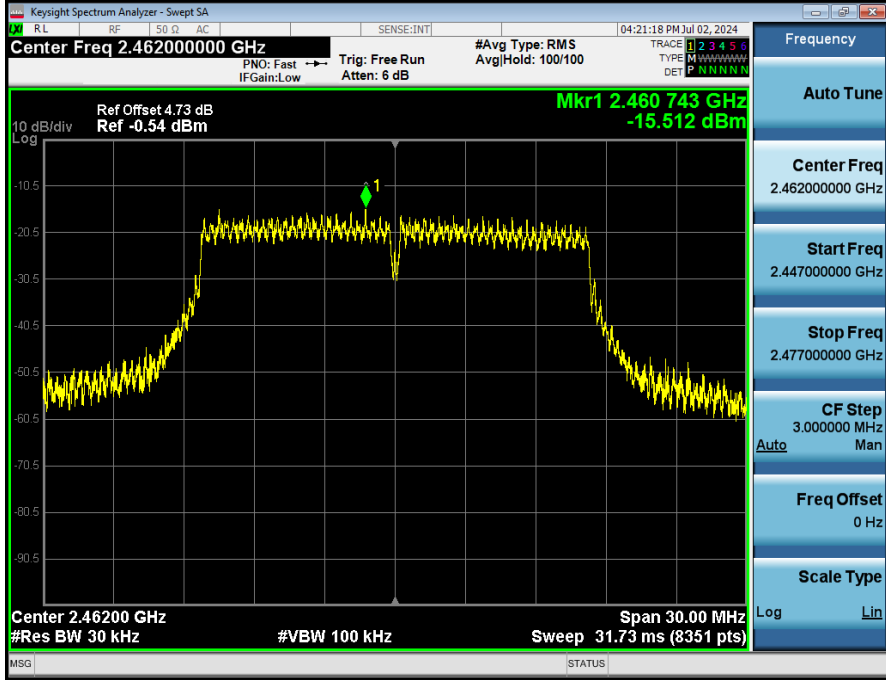
Power Spectral Density\_NVNT\_ANT1\_802\_11g\_2412



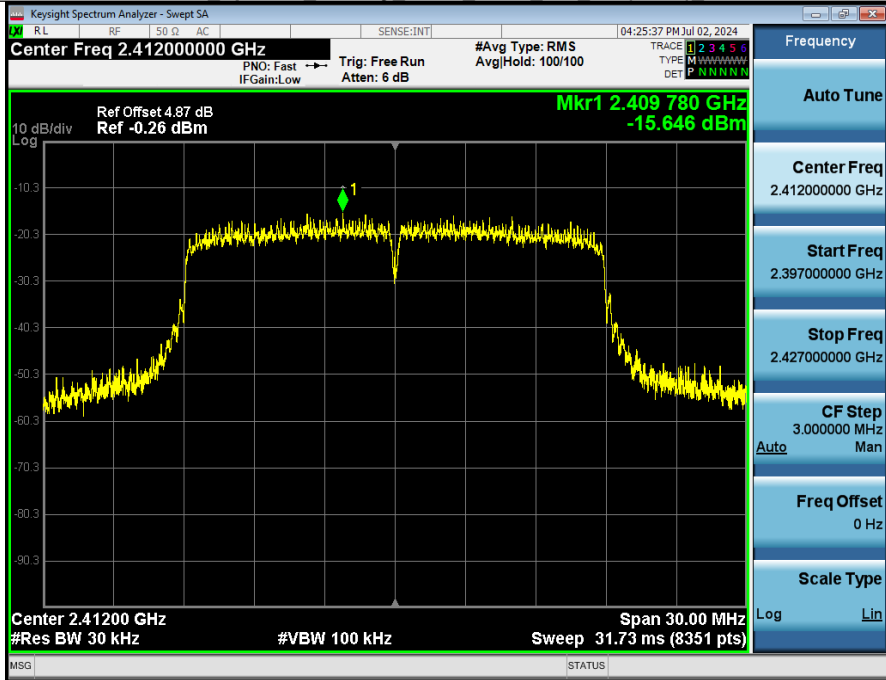
Power Spectral Density\_NVNT\_ANT1\_802\_11g\_2437



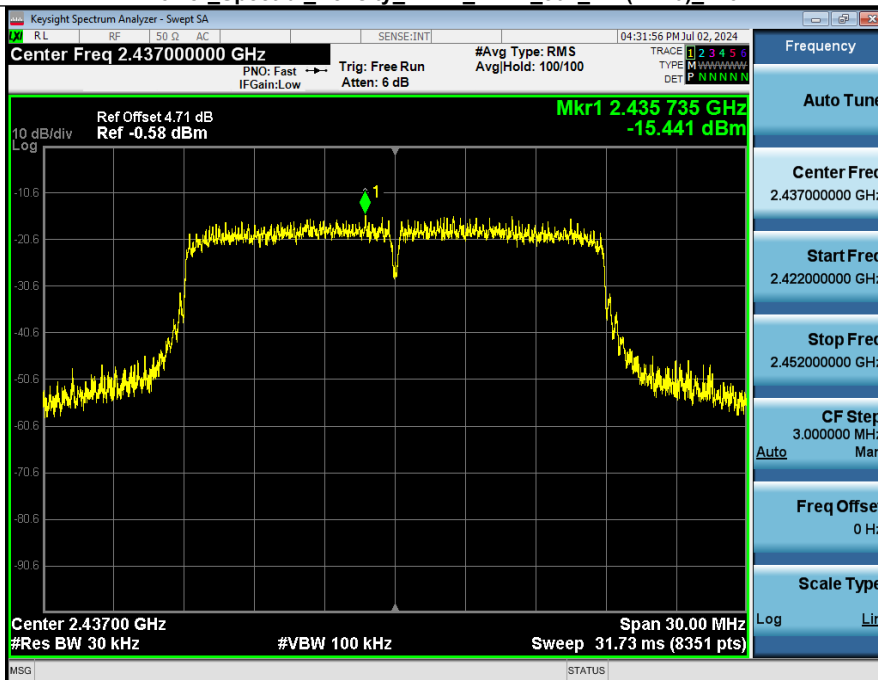
Power Spectral Density\_NVNT\_ANT1\_802\_11g\_2462



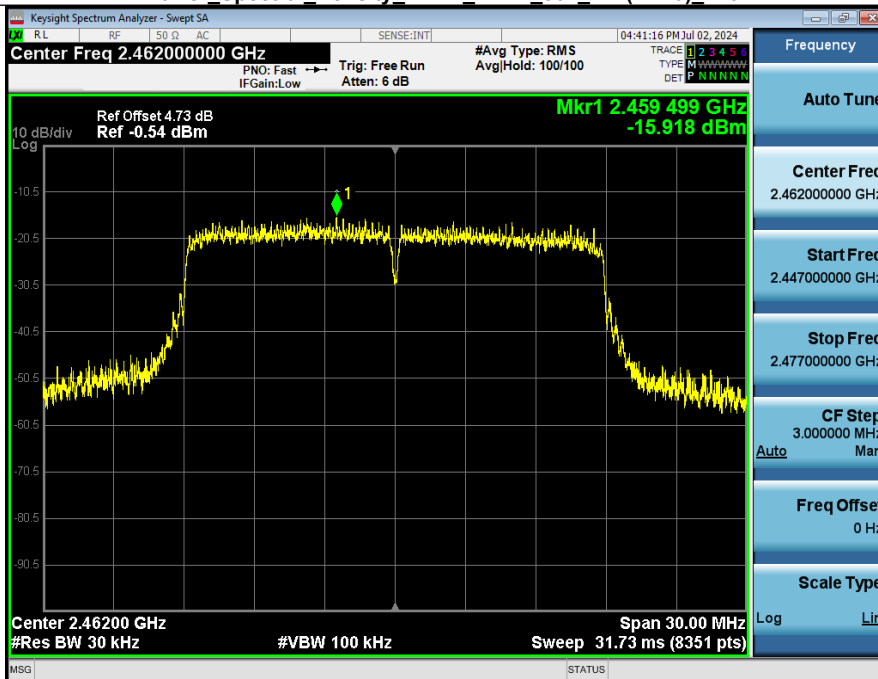
Power Spectral Density\_NVNT\_ANT1\_802\_11n(HT20)\_2412



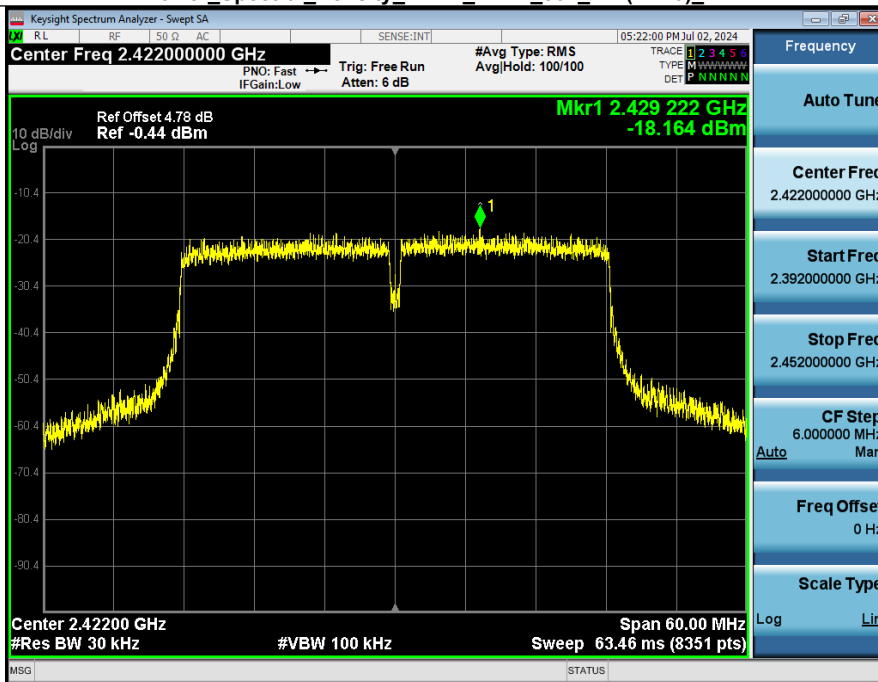
Power Spectral Density\_NVNT\_ANT1\_802\_11n(HT20)\_2437



Power Spectral Density\_NVNT\_ANT1\_802\_11n(HT20)\_2462



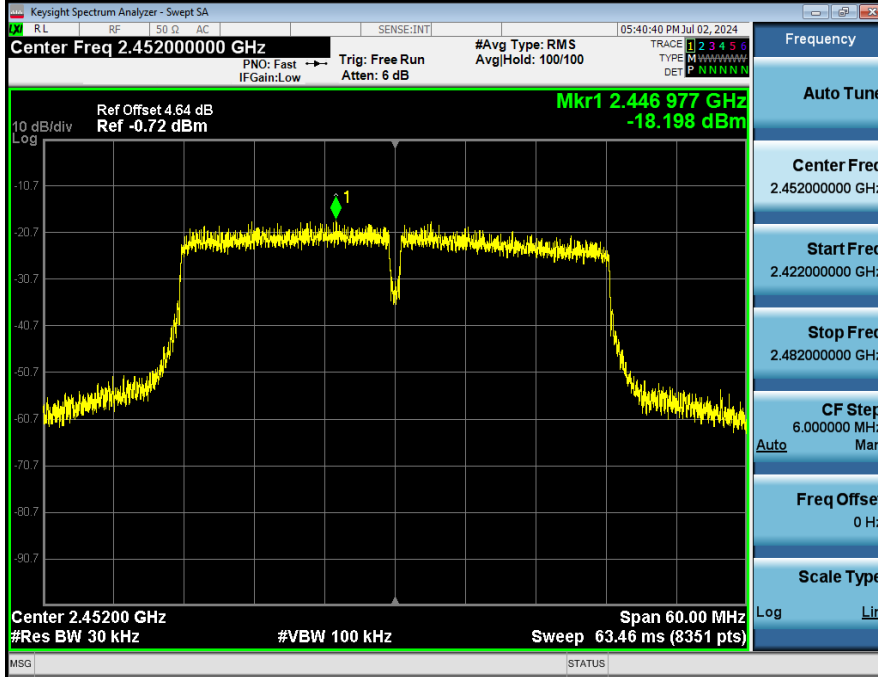
Power Spectral Density\_NVNT\_ANT1\_802\_11n(HT40)\_2422



Power Spectral Density\_NVNT\_ANT1\_802\_11n(HT40)\_2437

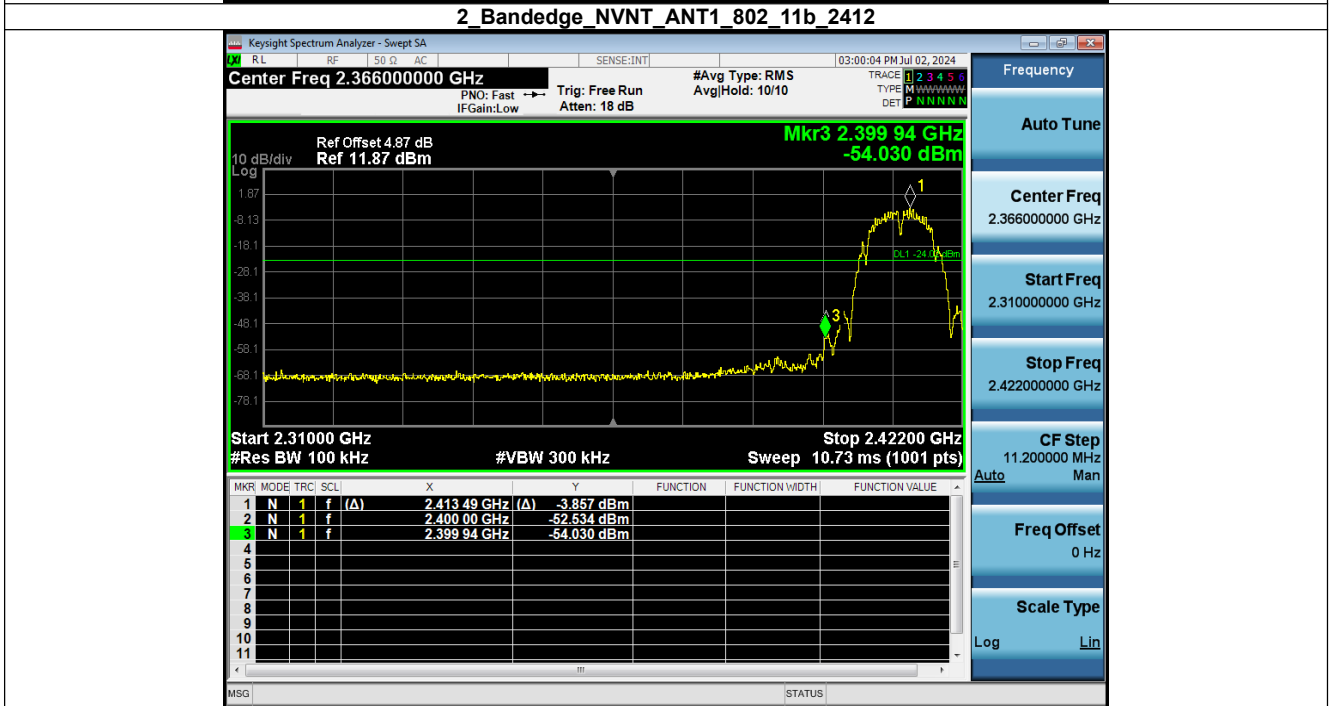
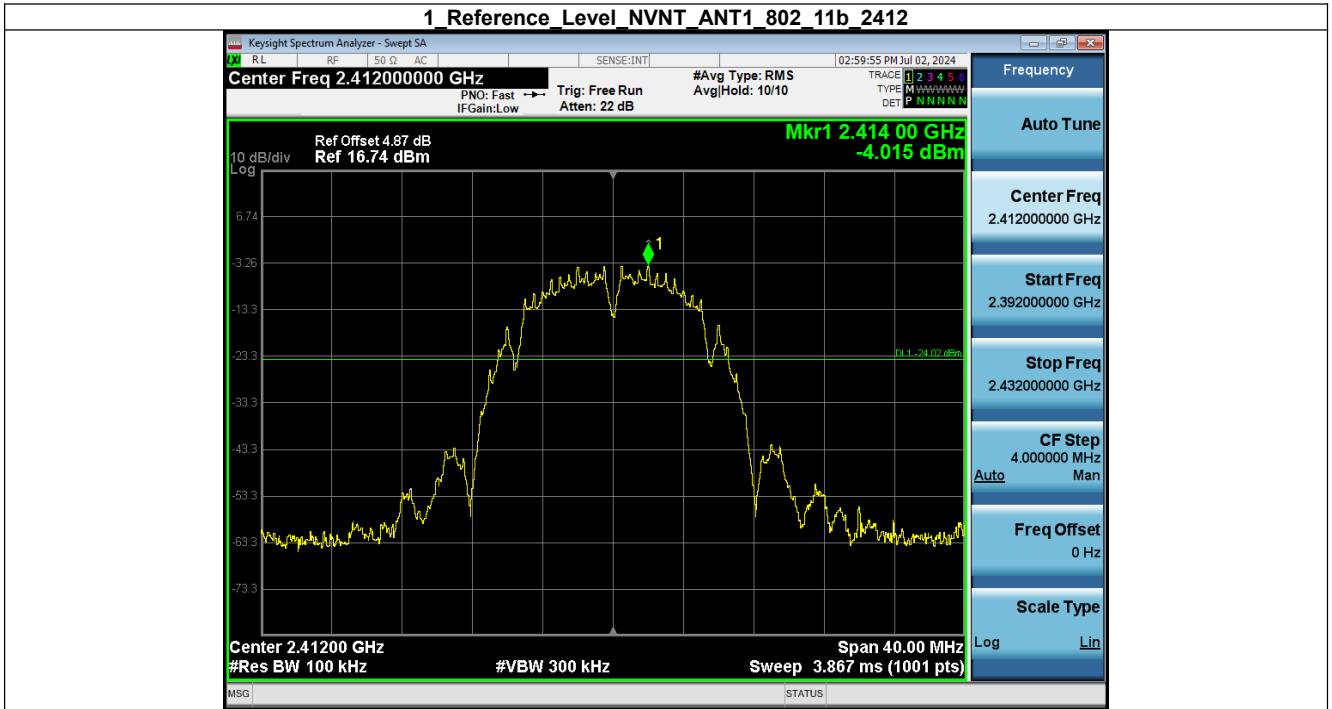


Power Spectral Density NVNT\_ANT1\_802\_11n(HT40)\_2452

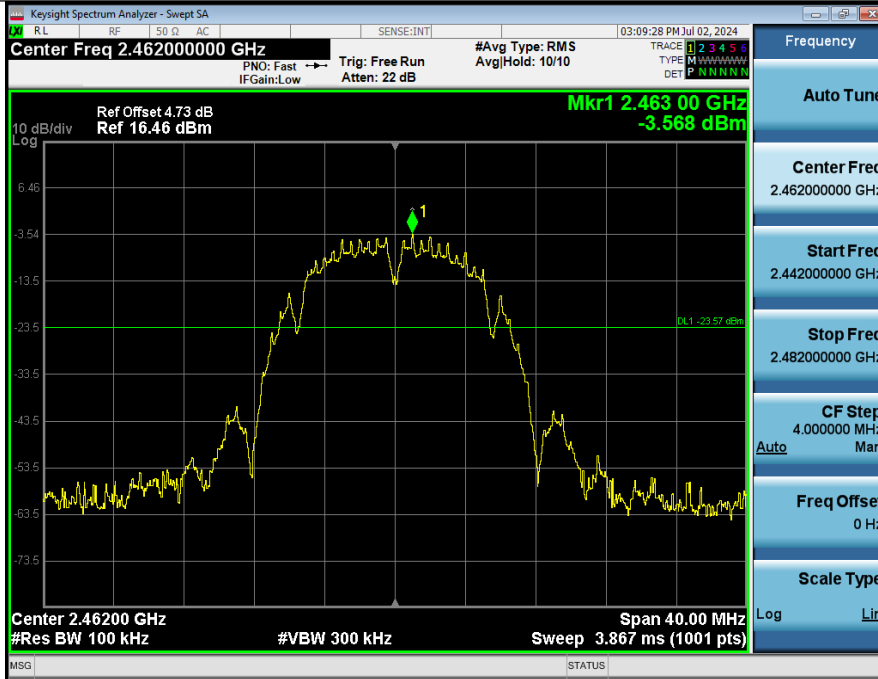


## 6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-54.030	-24.015	Pass
NVNT	ANT1	802.11b	2462.00	2483.968	-60.895	-23.568	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	-41.957	-29.862	Pass
NVNT	ANT1	802.11g	2462.00	2483.584	-56.005	-31.432	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.256	-43.897	-31.625	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	-54.663	-31.402	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-44.364	-33.655	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.680	-53.456	-33.545	Pass



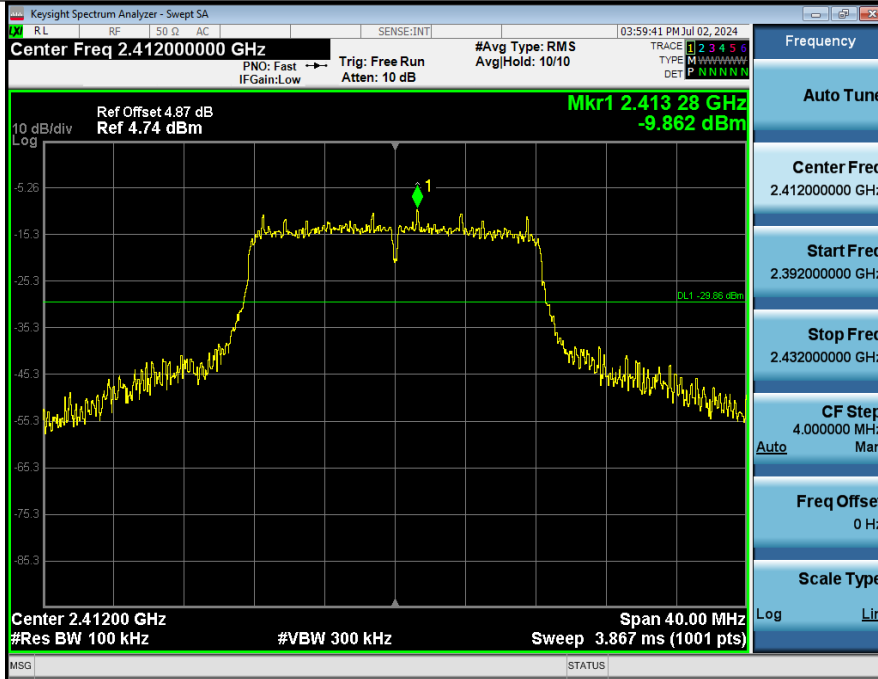
### 1 Reference Level\_NVNT\_ANT1\_802\_11b\_2462



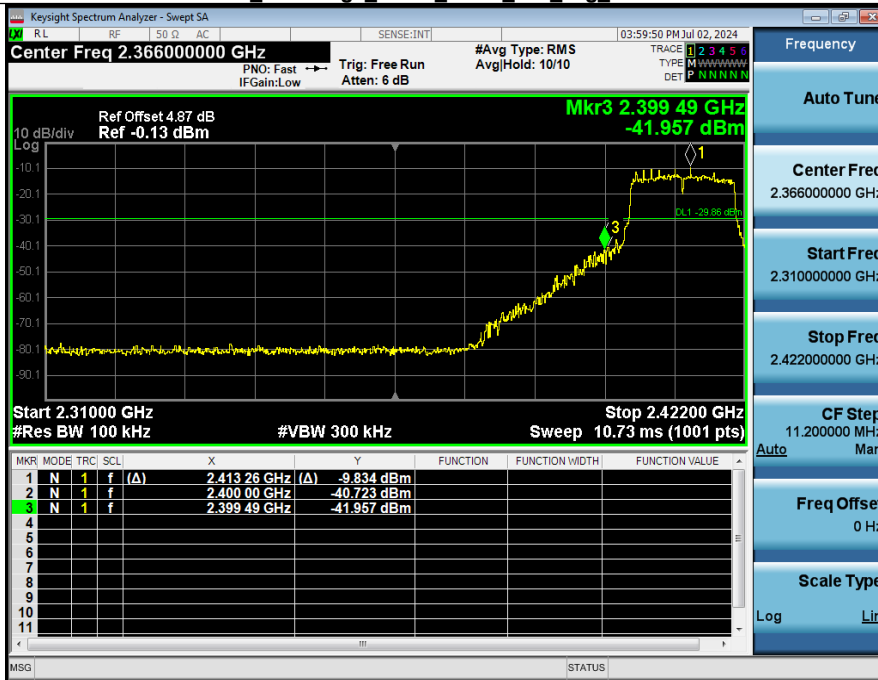
### 2 Bandedge\_NVNT\_ANT1\_802\_11b\_2462



### 1 Reference Level\_NVNT\_ANT1\_802\_11g\_2412

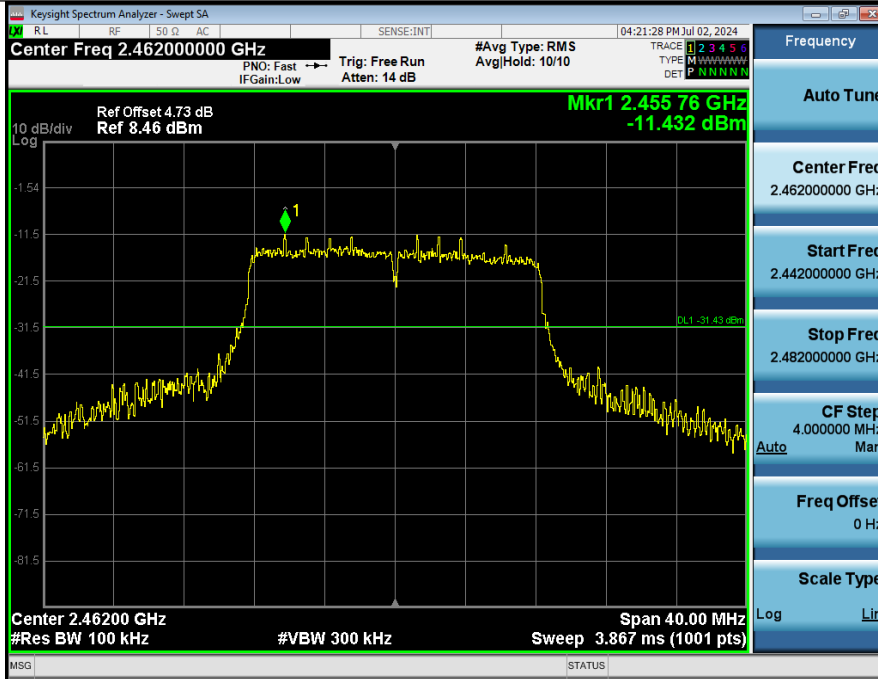


### 2 Bandedge\_NVNT\_ANT1\_802\_11g\_2412

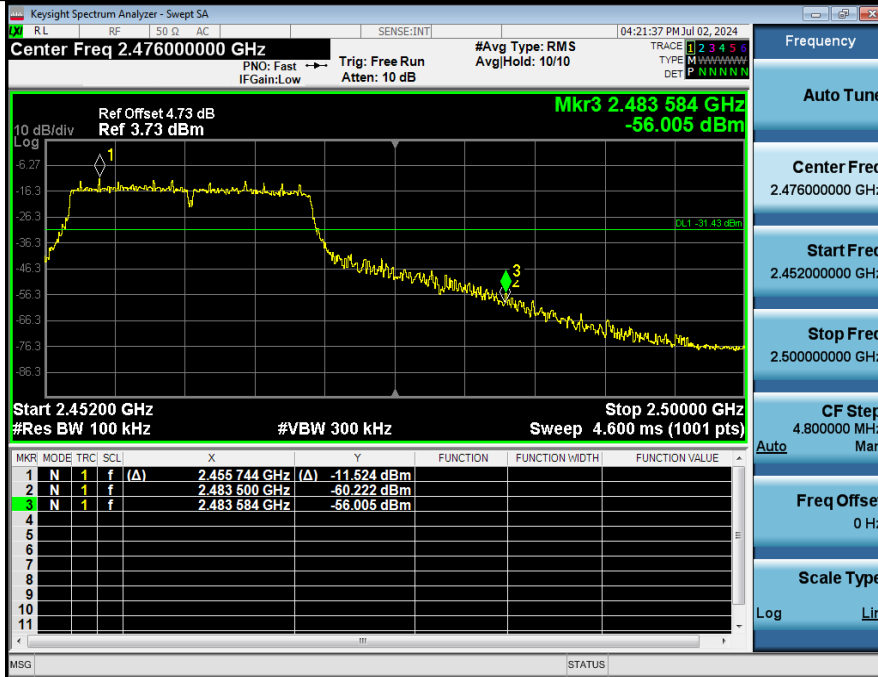




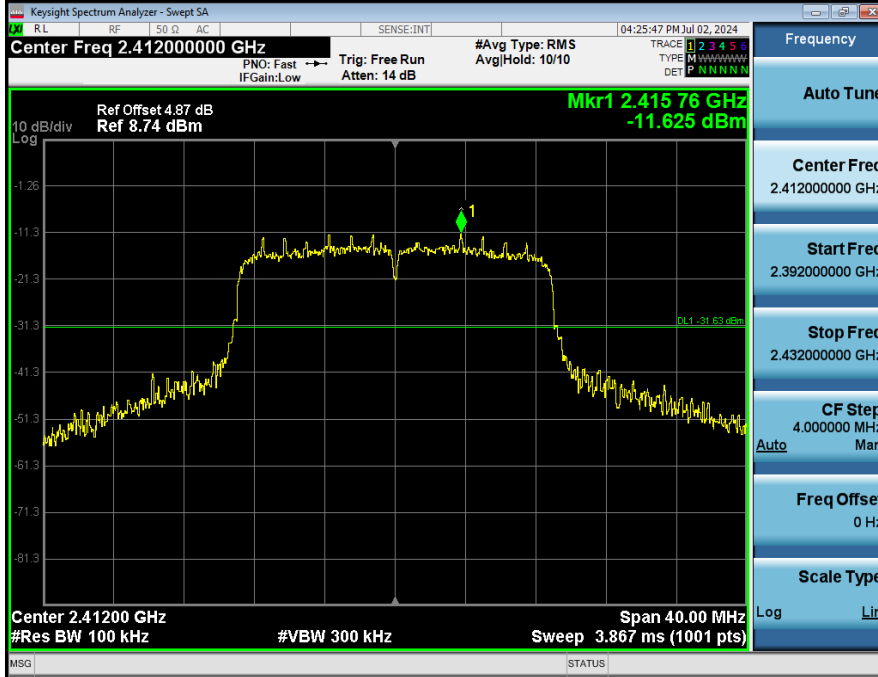
### 1 Reference Level\_NVNT\_ANT1\_802\_11g\_2462



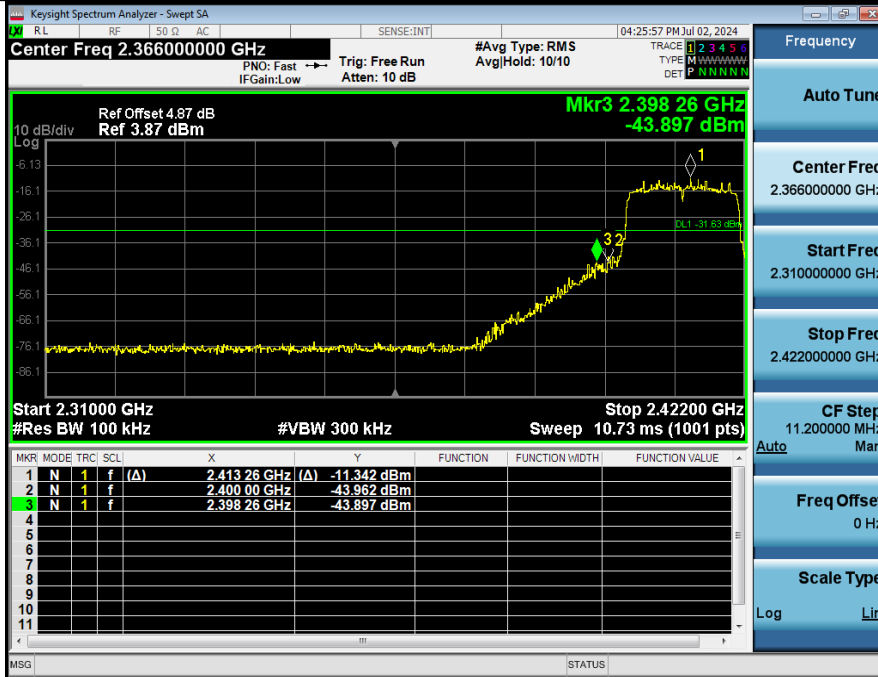
### 2 Bandedge\_NVNT\_ANT1\_802\_11g\_2462



1 Reference Level\_NVNT\_ANT1\_802\_11n(HT20)\_2412



2 Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_2412



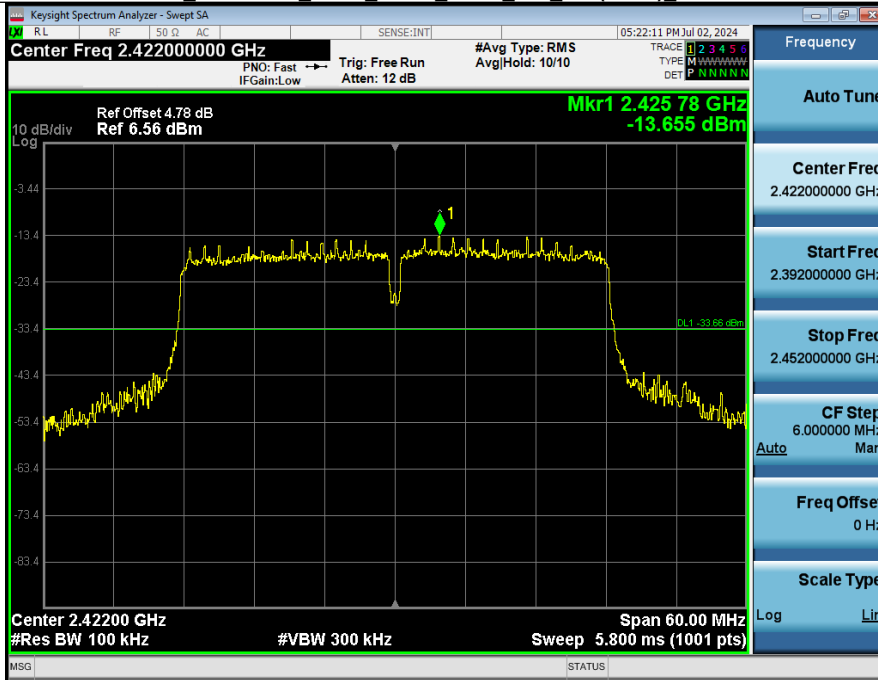
1 Reference Level\_NVNT\_ANT1\_802\_11n(HT20)\_2462



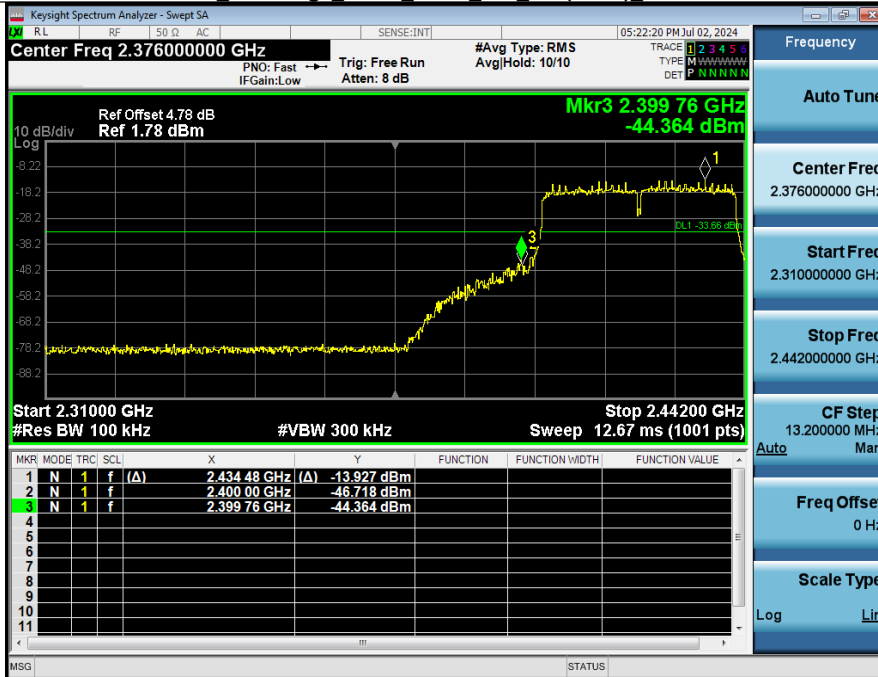
2 Bandedge\_NVNT\_ANT1\_802\_11n(HT20)\_2462



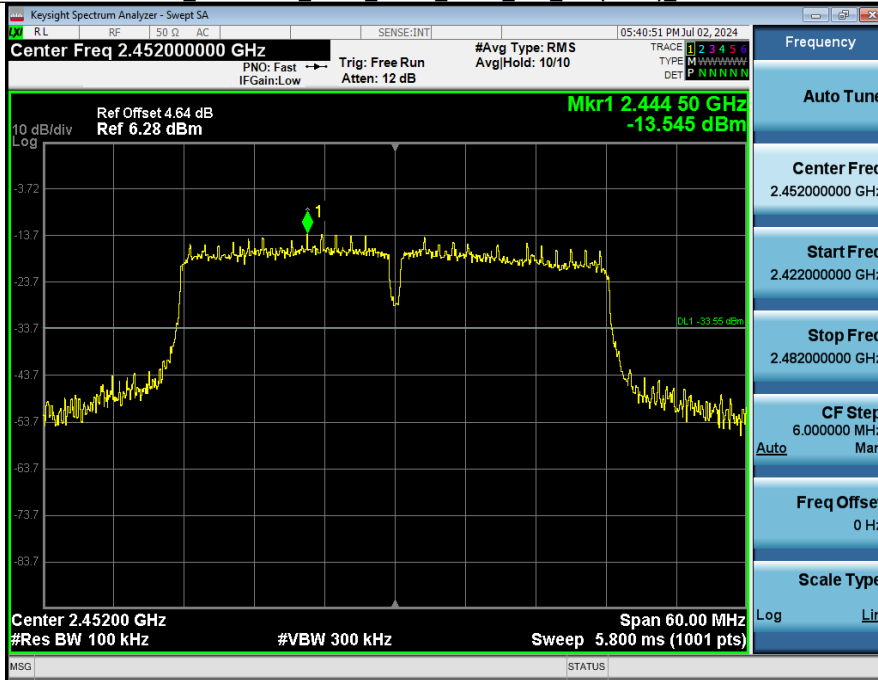
1 Reference Level\_NVNT\_ANT1\_802\_11n(HT40)\_2422



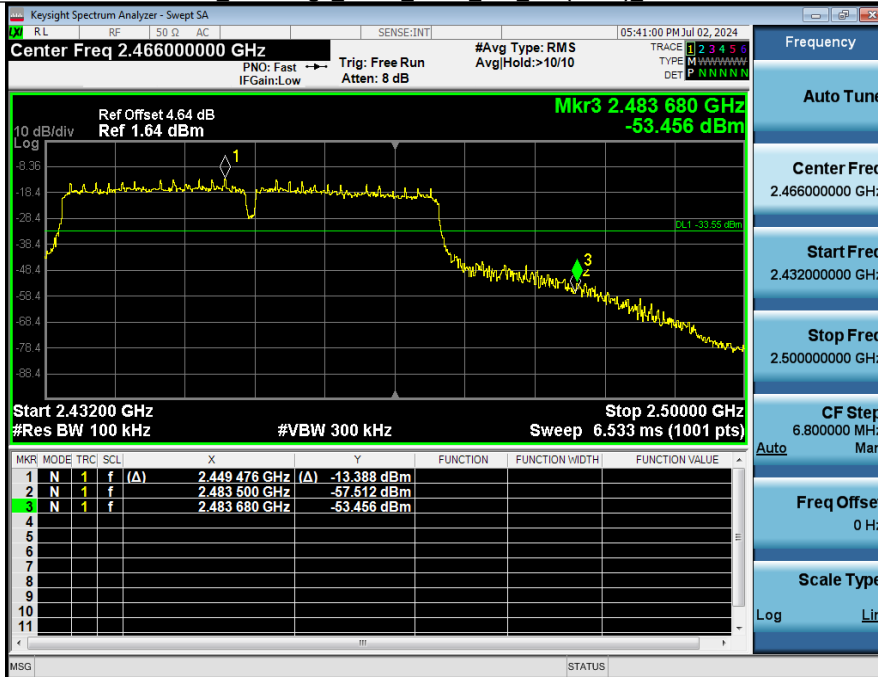
2 Bandedge\_NVNT\_ANT1\_802\_11n(HT40)\_2422



1 Reference Level\_NVNT\_ANT1\_802\_11n(HT40)\_2452

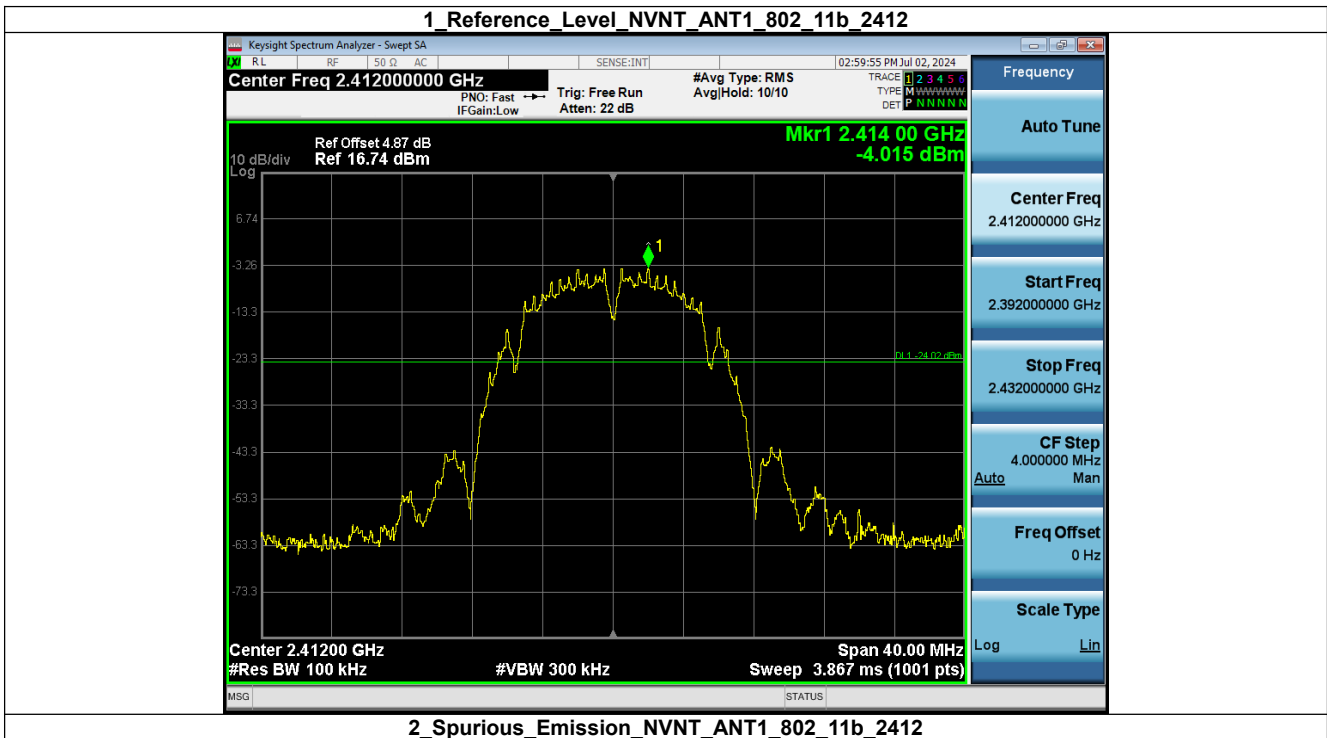


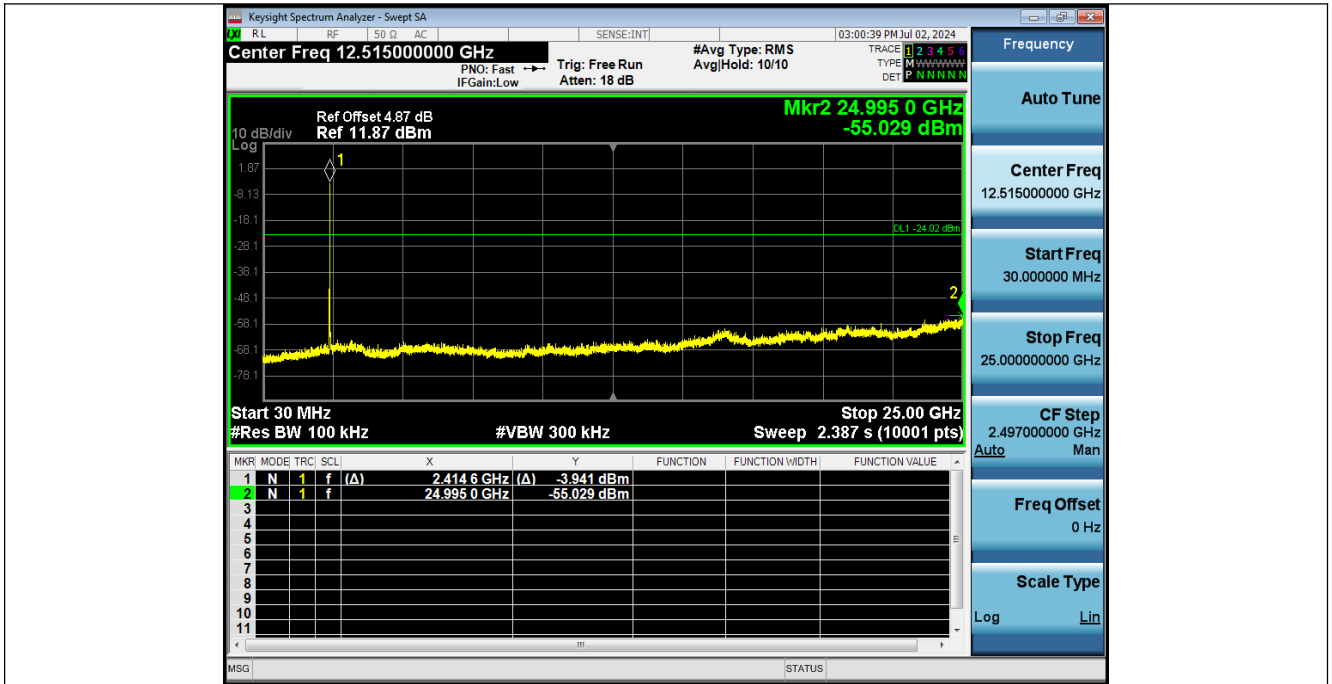
2 Bandedge\_NVNT\_ANT1\_802\_11n(HT40)\_2452



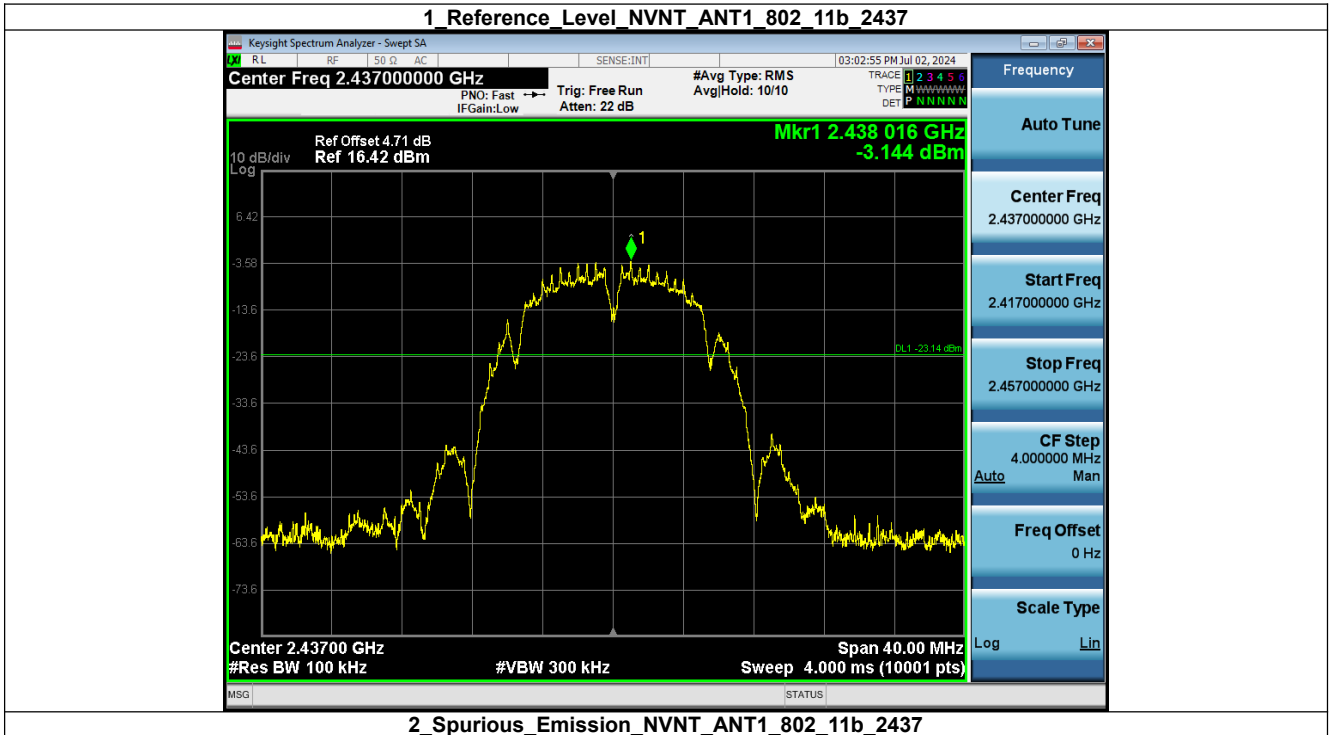
# 7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24995.006	-55.029	-24.015	Pass
NVNT	ANT1	802.11b	2437.00	25000.000	-55.912	-23.144	Pass
NVNT	ANT1	802.11b	2462.00	24962.545	-55.772	-23.568	Pass
NVNT	ANT1	802.11g	2412.00	5221.263	-65.895	-29.862	Pass
NVNT	ANT1	802.11g	2437.00	24850.180	-55.574	-23.513	Pass
NVNT	ANT1	802.11g	2462.00	5198.790	-54.657	-31.432	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24972.533	-55.734	-24.031	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24910.108	-67.475	-30.689	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	25000.000	-64.687	-31.402	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24955.054	-65.025	-33.655	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24942.569	-64.830	-33.419	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24950.060	-65.975	-33.545	Pass

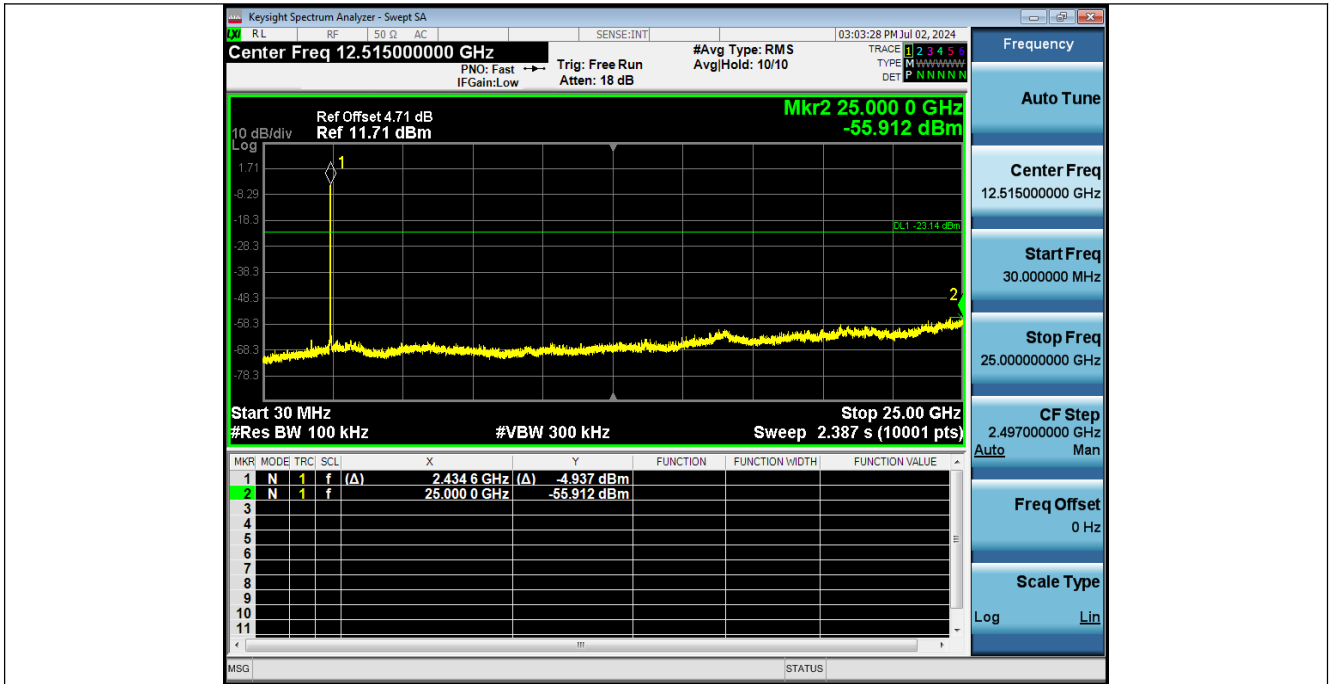




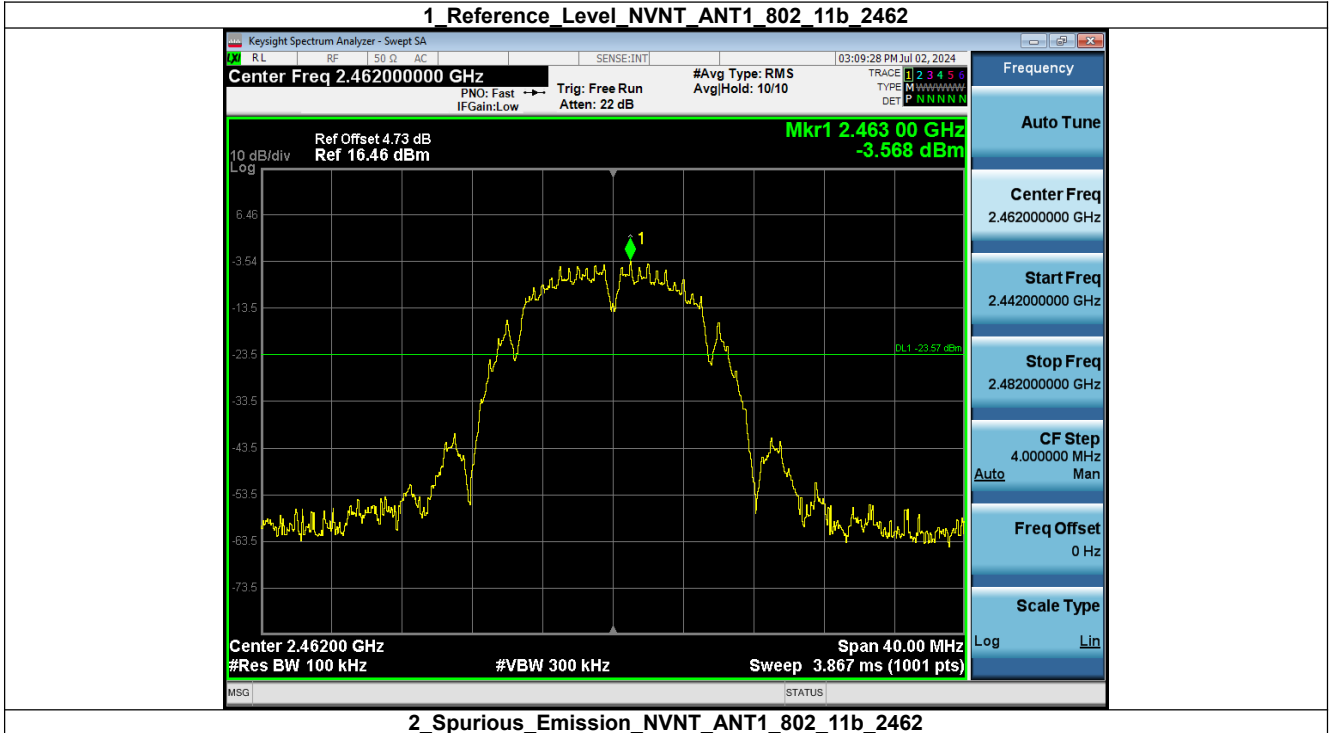
1 Reference Level NVNT ANT1 802 11b 2437



2 Spurious Emission\_NVNT\_ANT1\_802\_11b\_2437

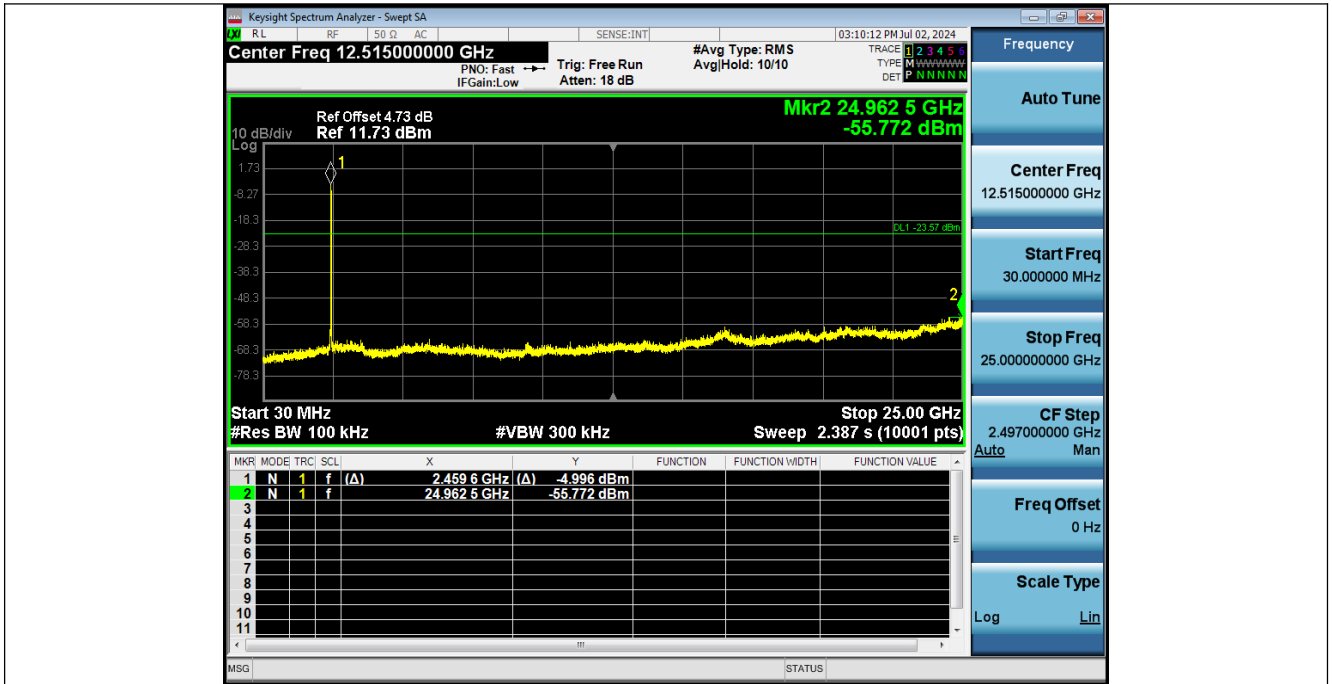


1 Reference Level NVNT ANT1 802 11b 2462

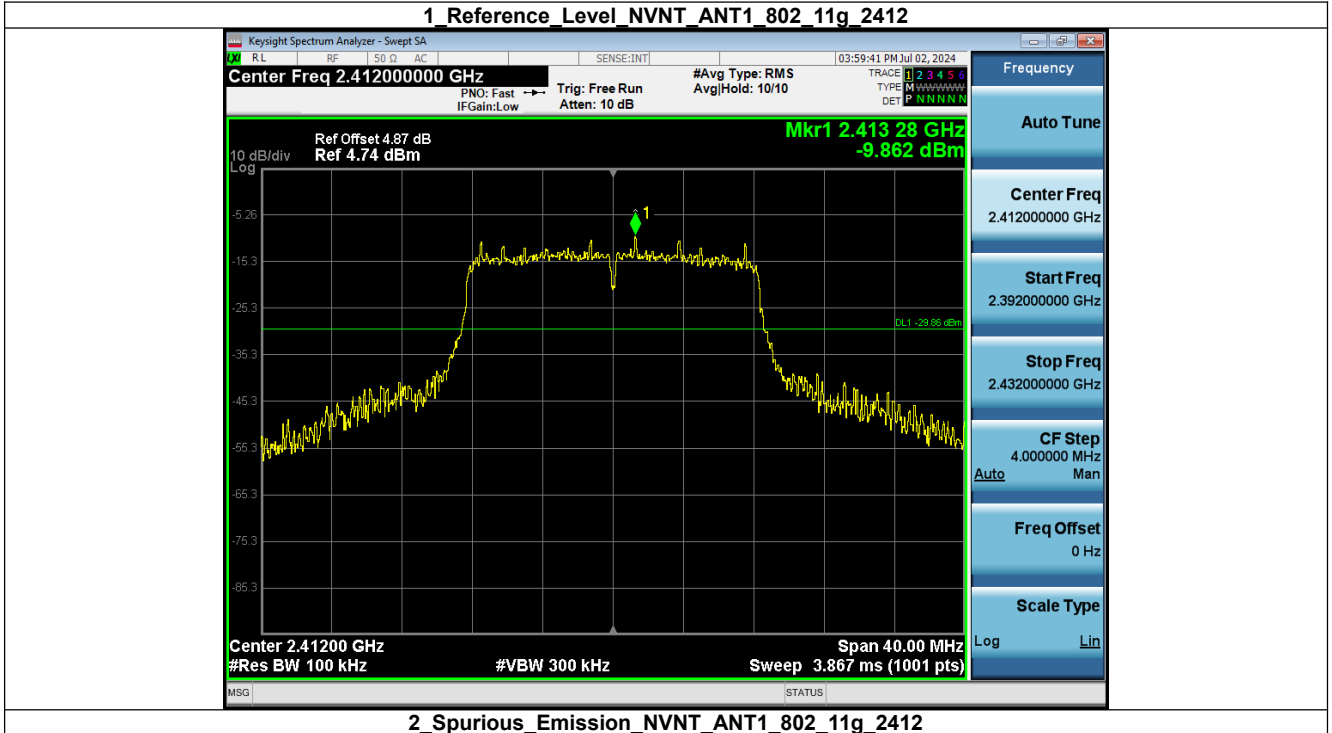


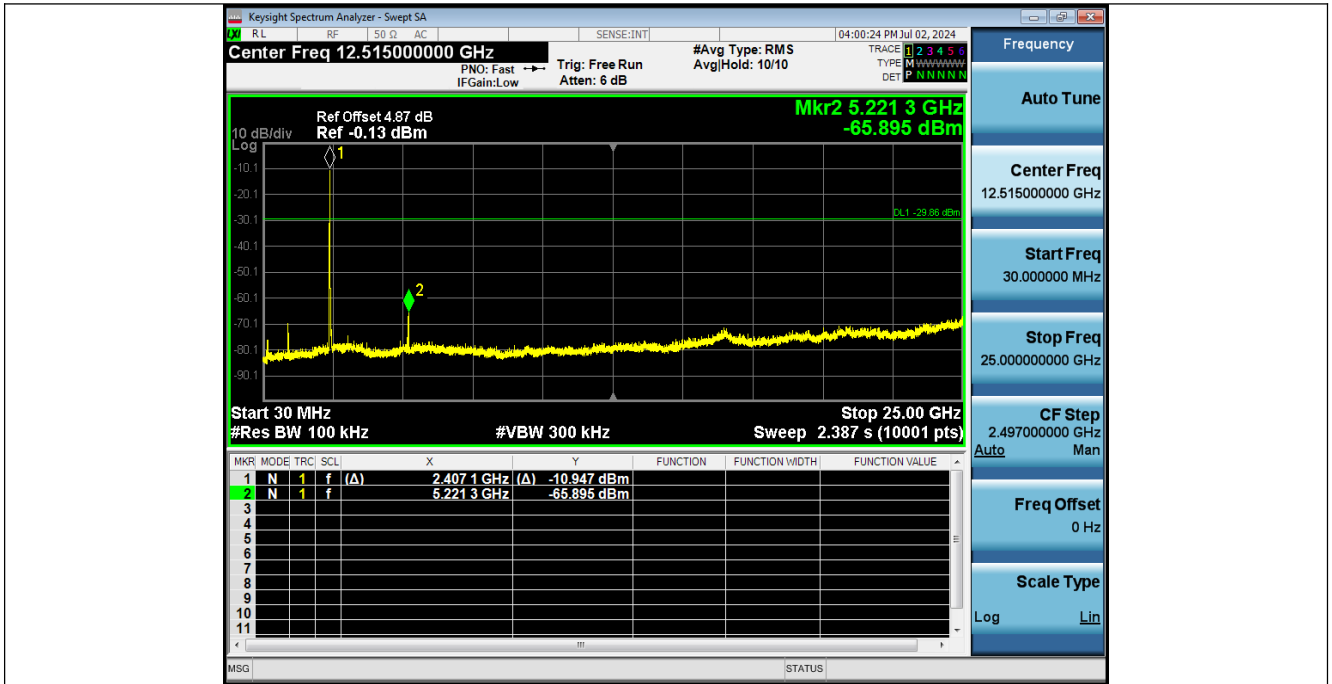
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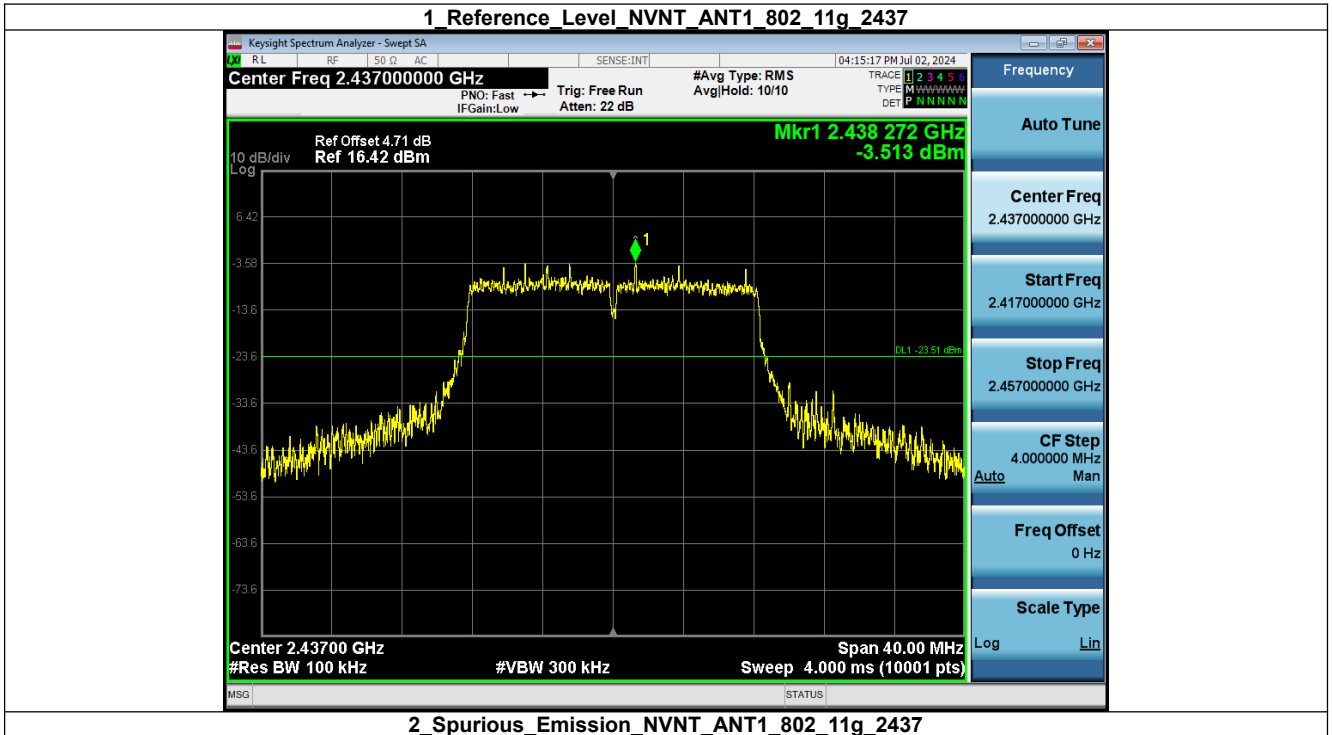


1 Reference Level NVNT\_ANT1\_802\_11g\_2412

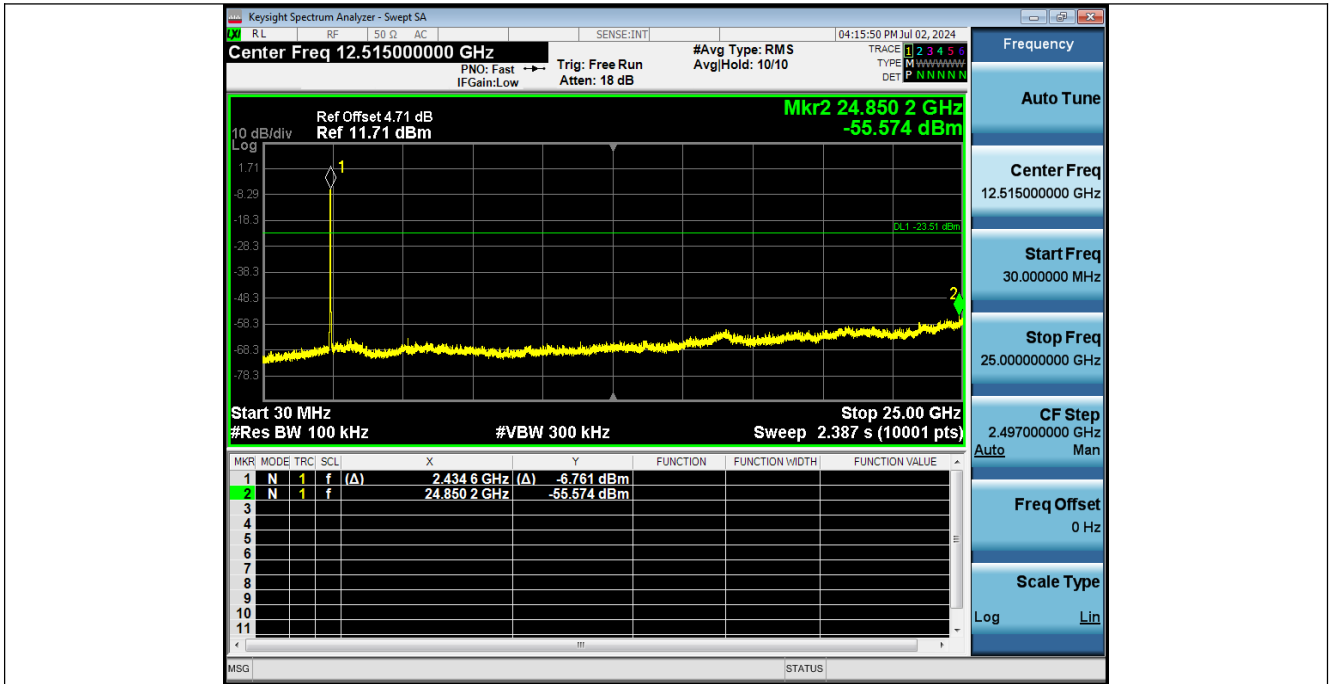




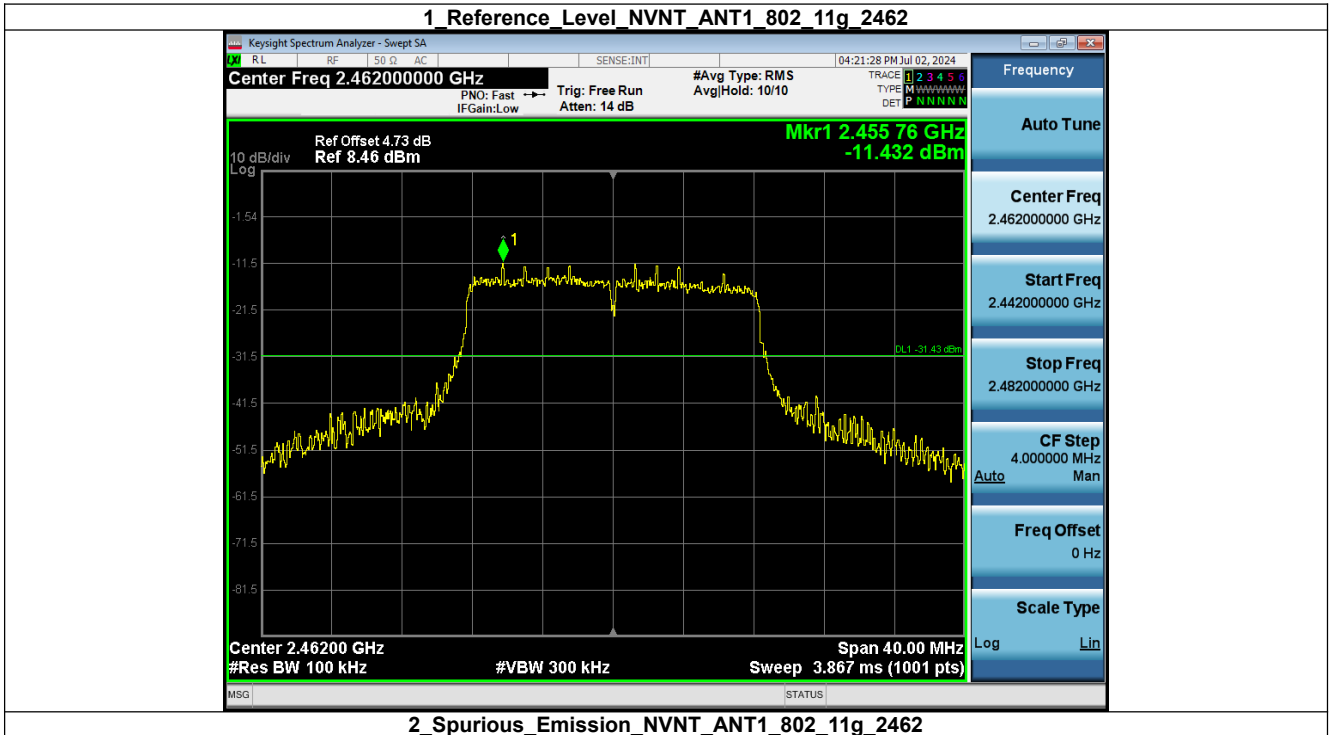
1 Reference Level NVNT\_ANT1\_802\_11g\_2437



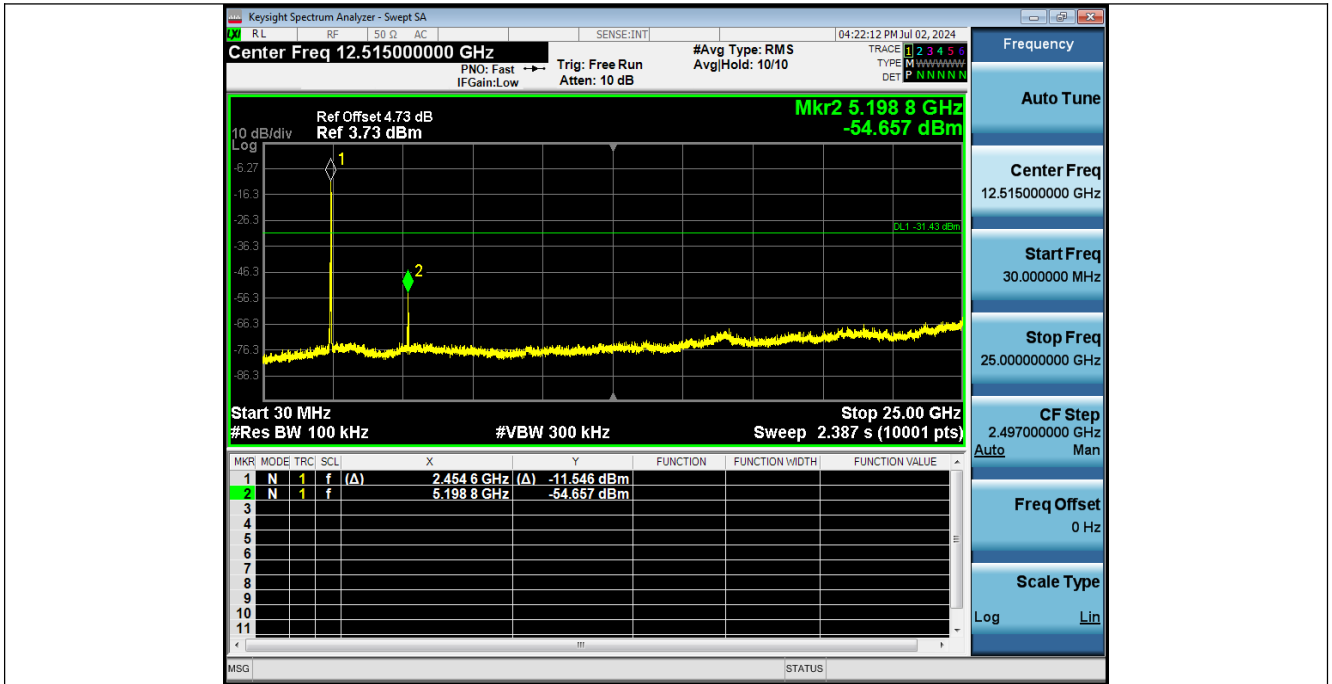
2 Spurious Emission\_NVNT\_ANT1\_802\_11g\_2437



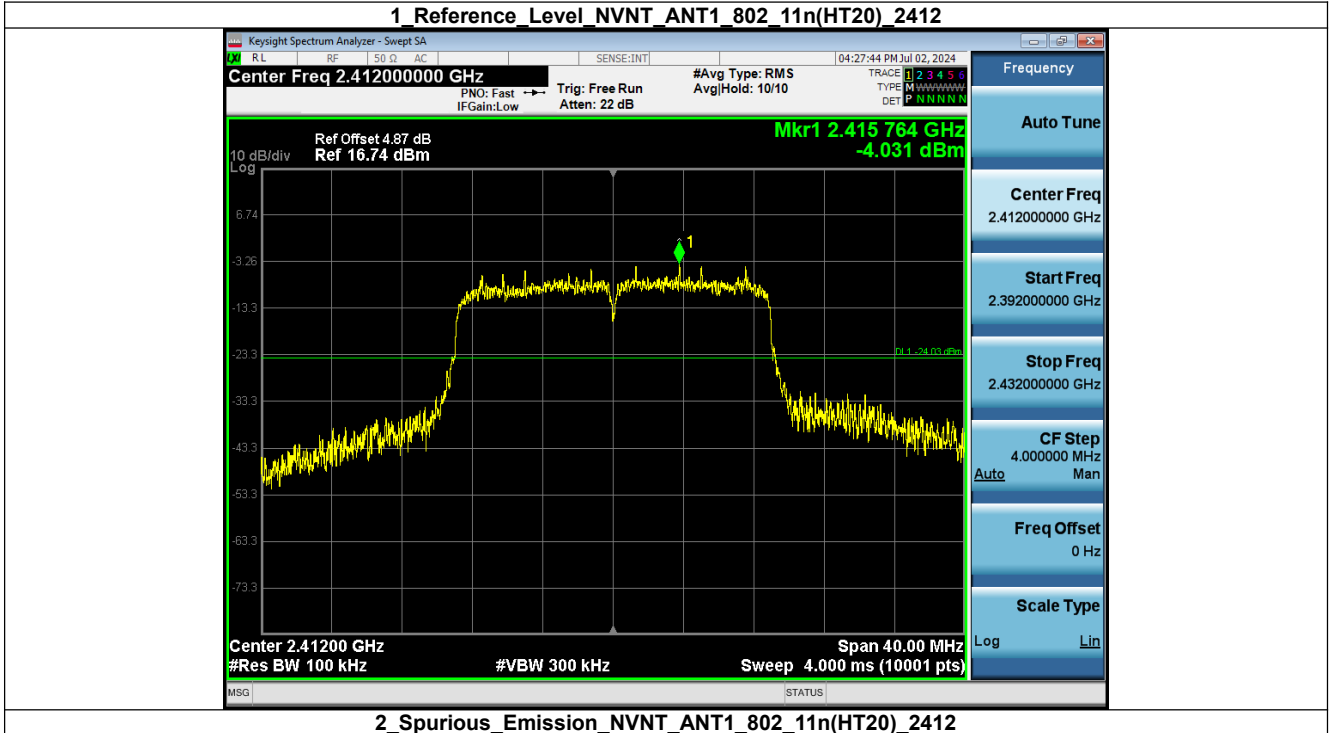
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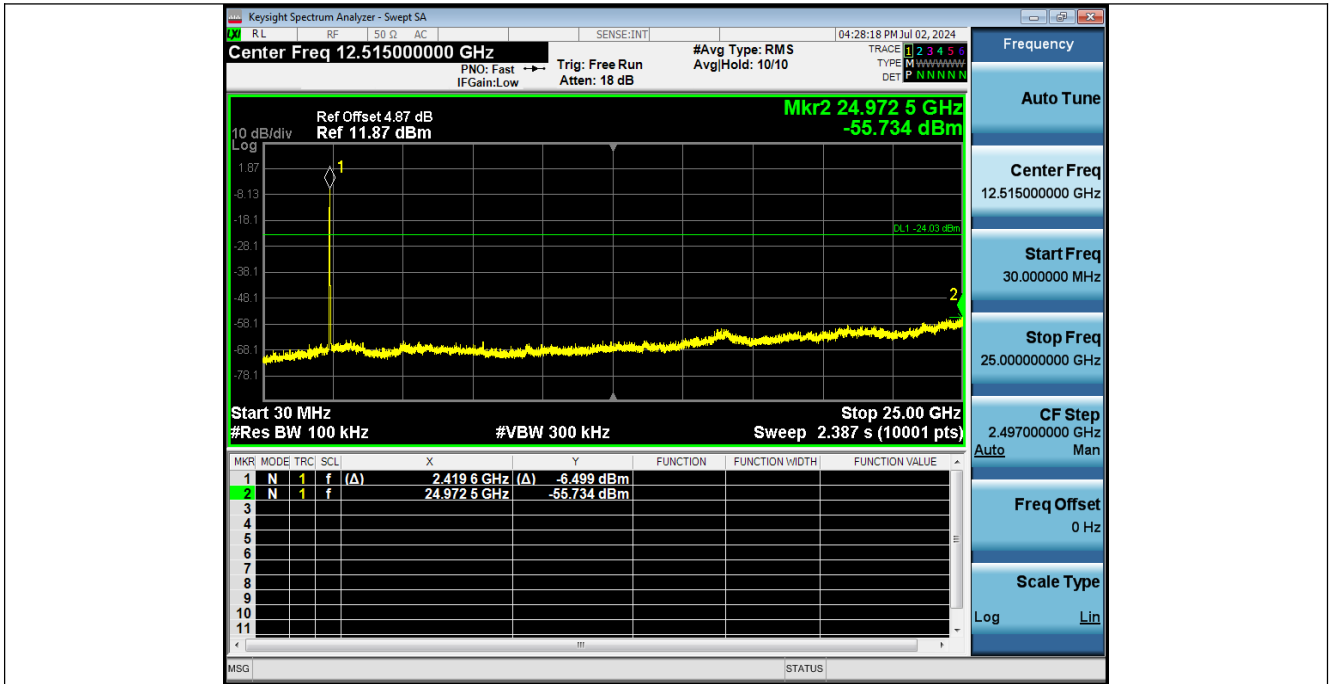
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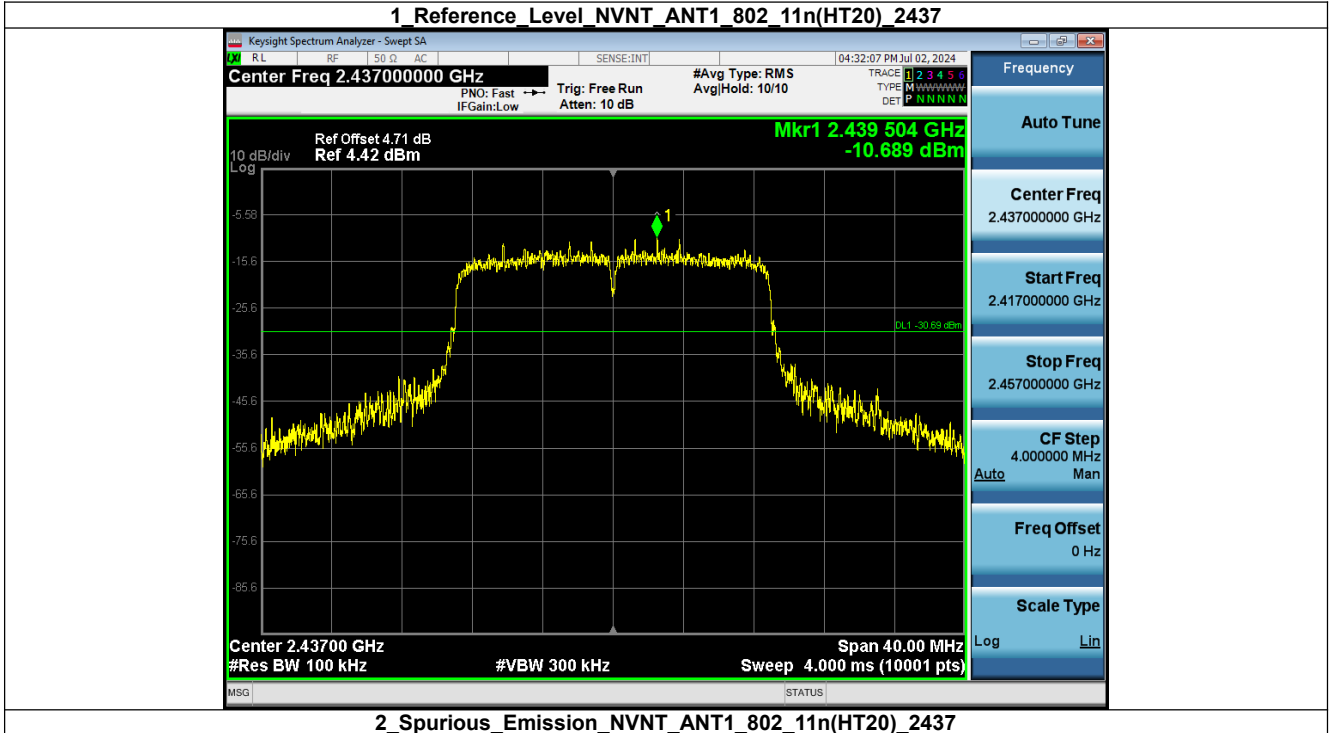
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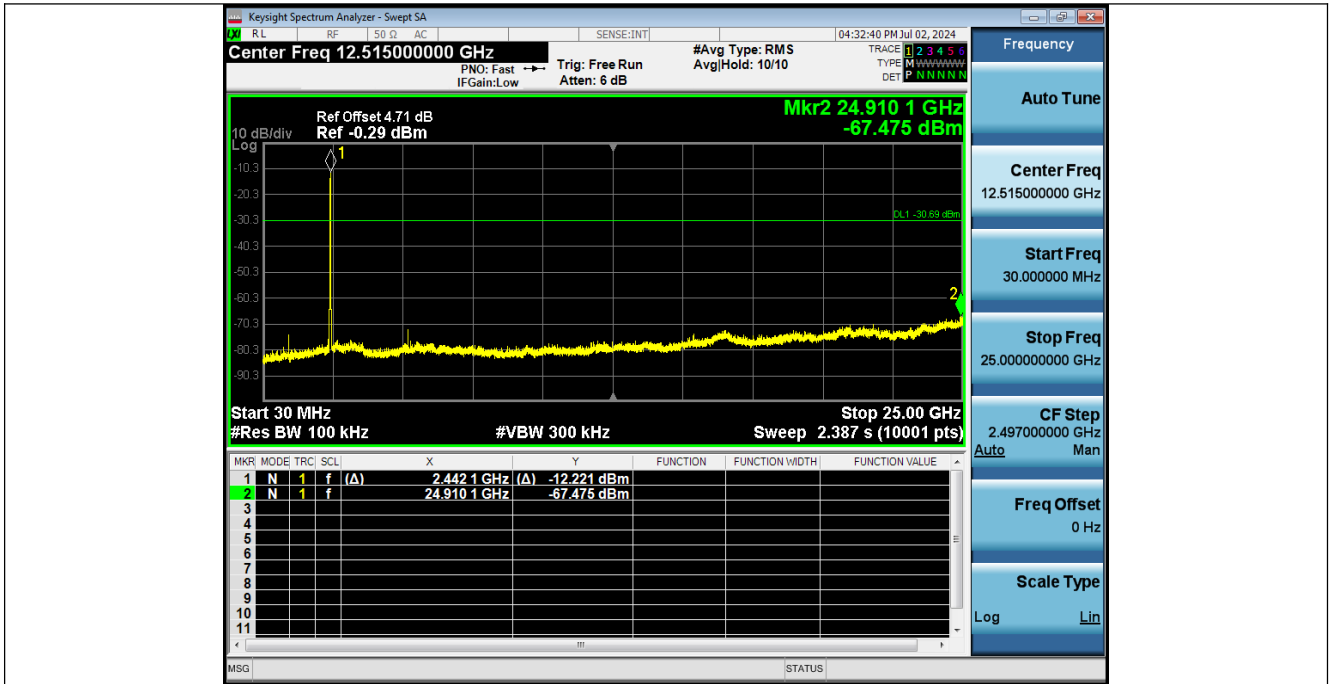
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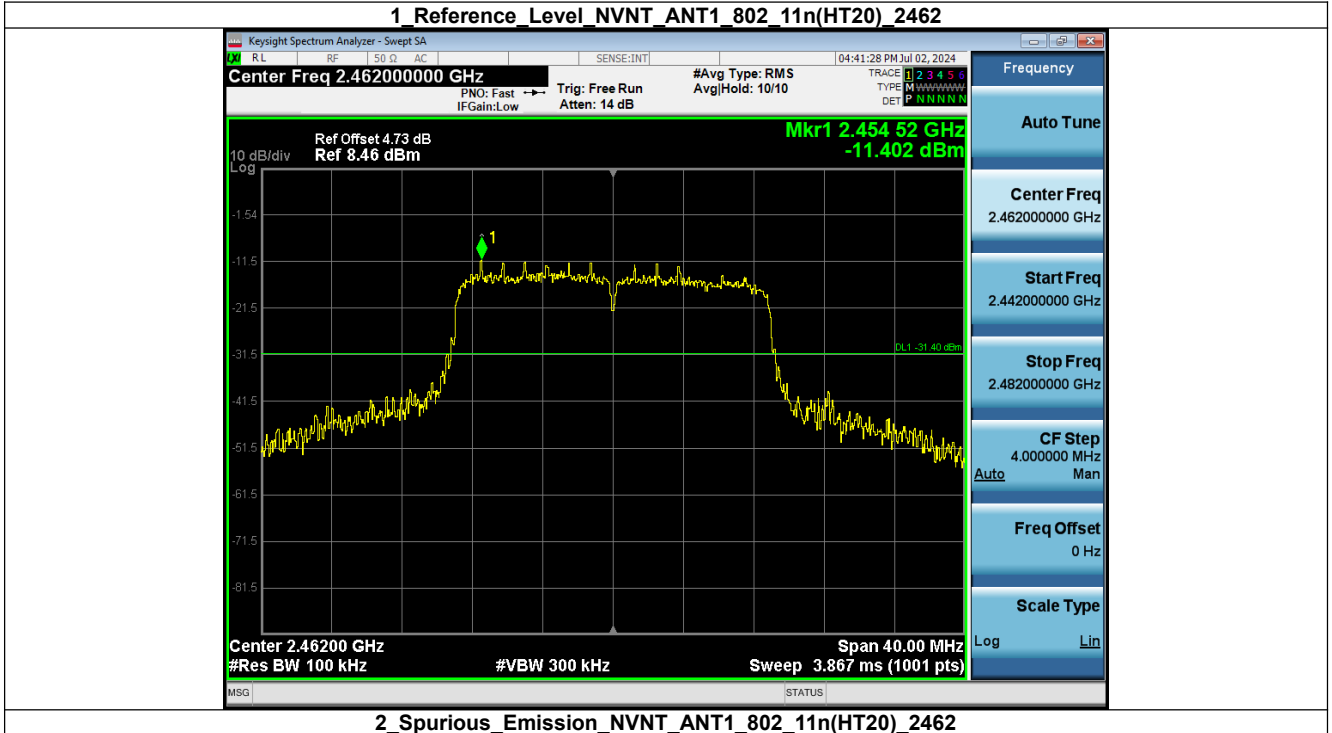
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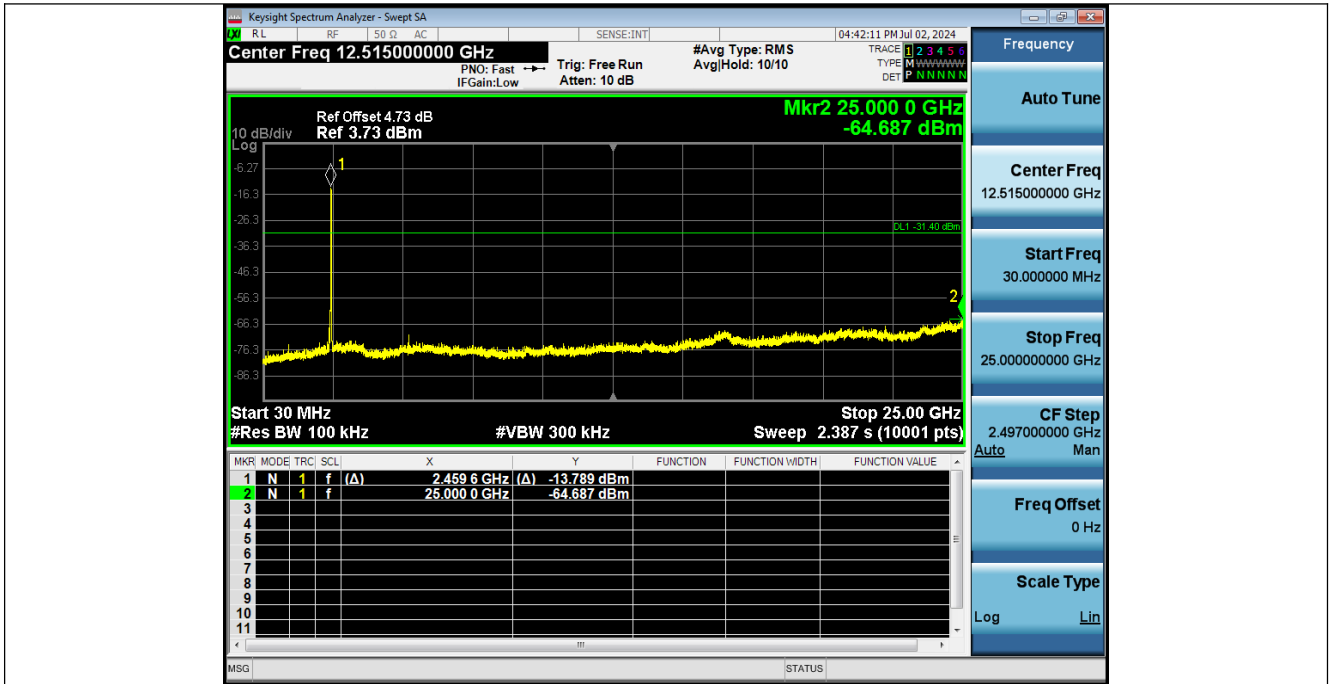
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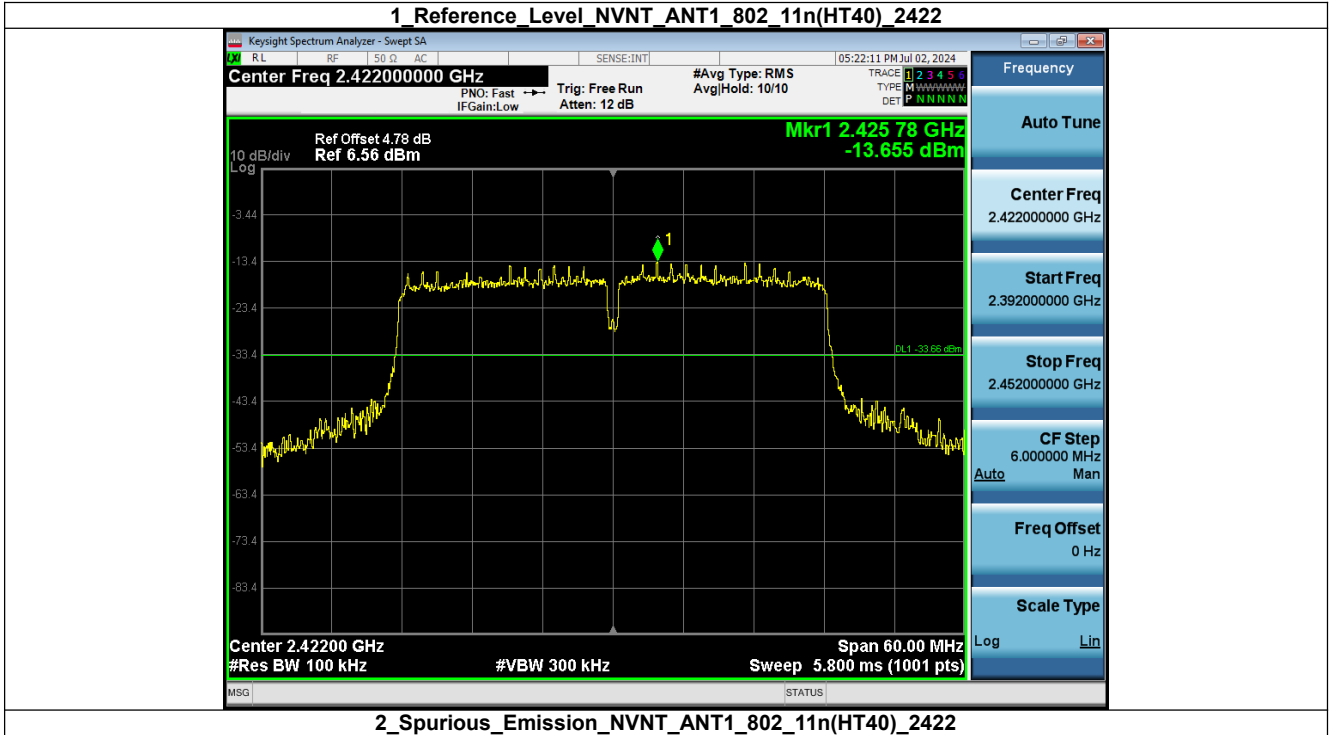
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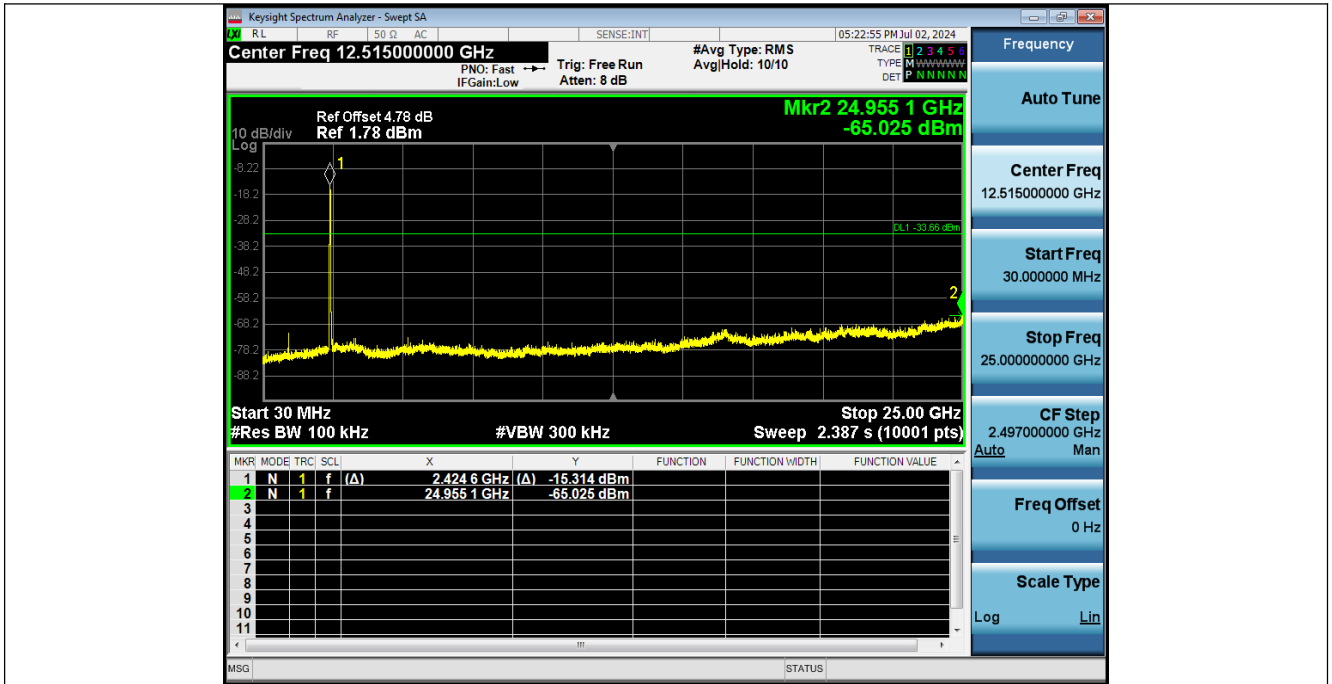
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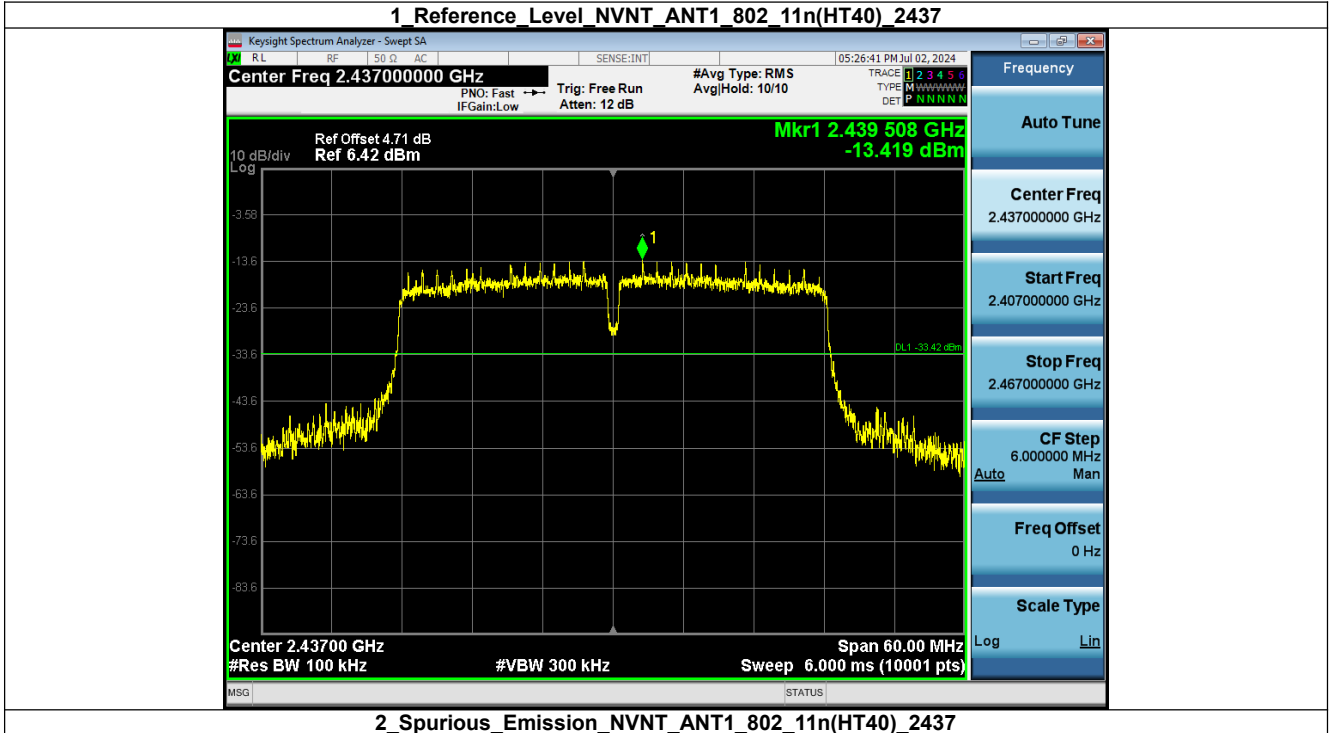
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2 Spurious Emission\_NVNT\_ANT1\_802\_11n(HT40)\_2422

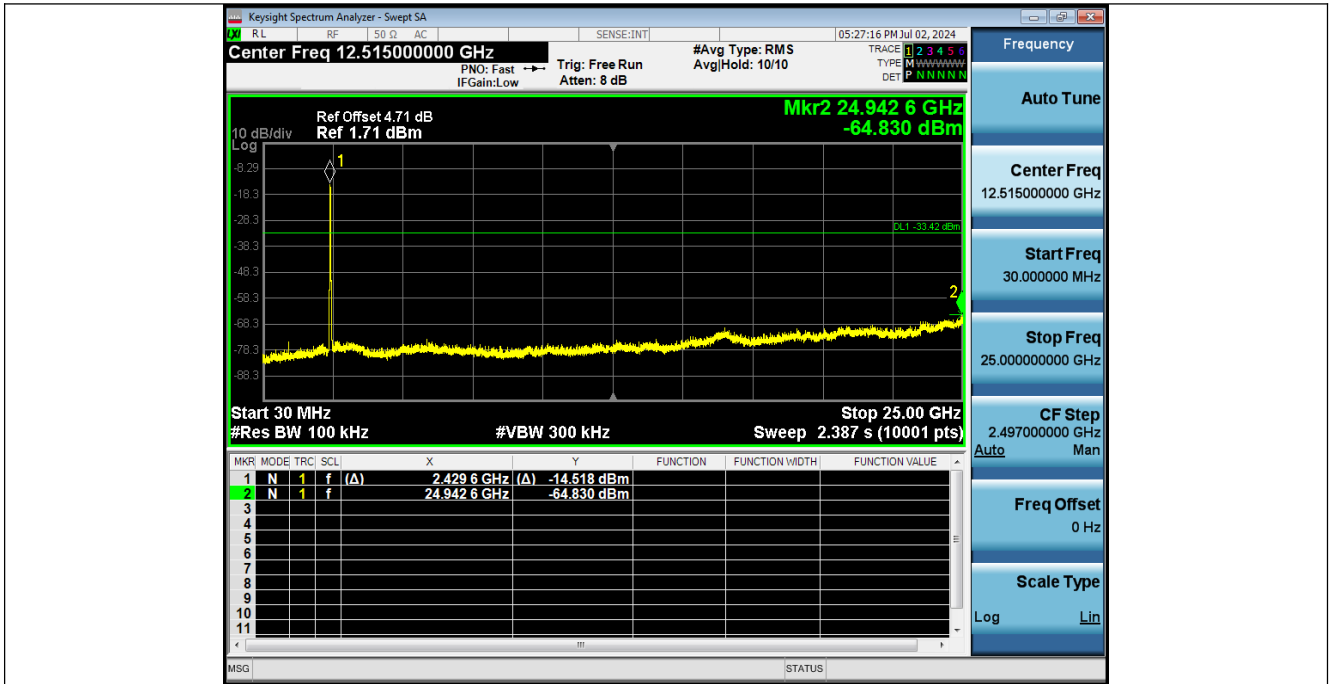


1 Reference Level NVNT\_ANT1\_802\_11n(HT40)\_2437

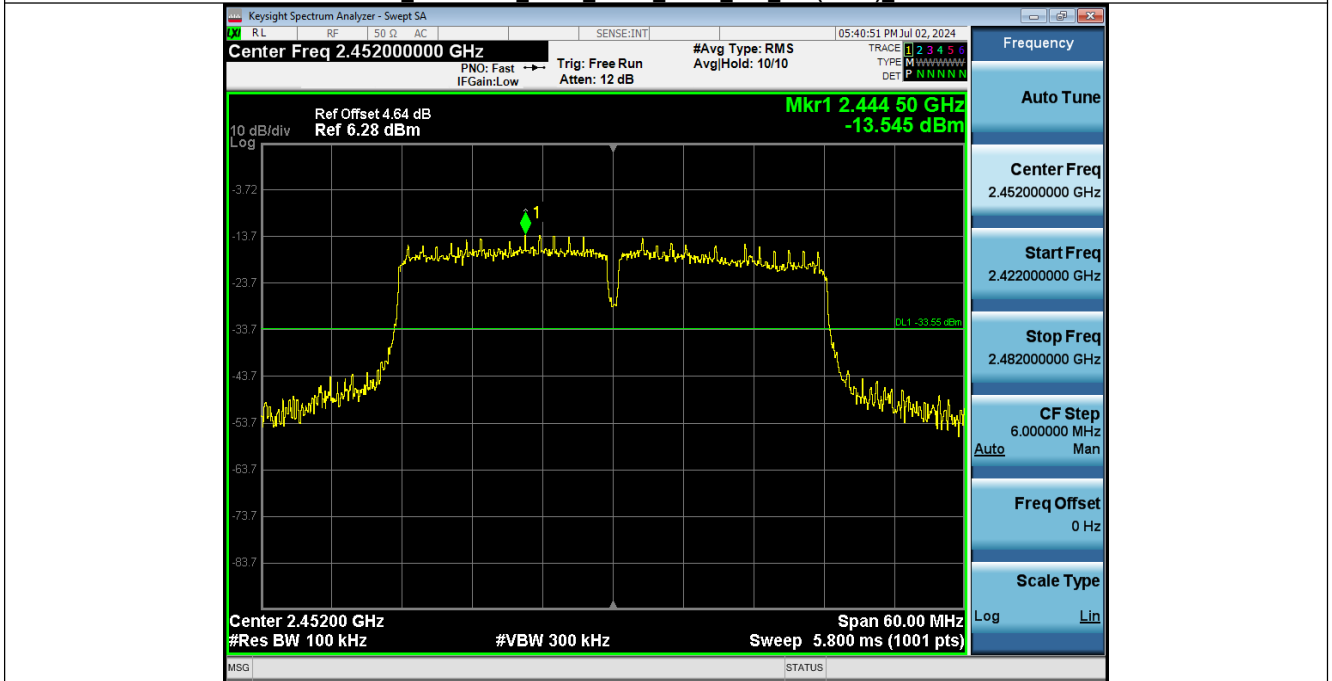


2 Spurious Emission NVNT\_ANT1\_802\_11n(HT40)\_2437





1 Reference Level NVNT\_ANT1\_802\_11n(HT40)\_2452



2 Spurious Emission NVNT\_ANT1\_802\_11n(HT40)\_2452

