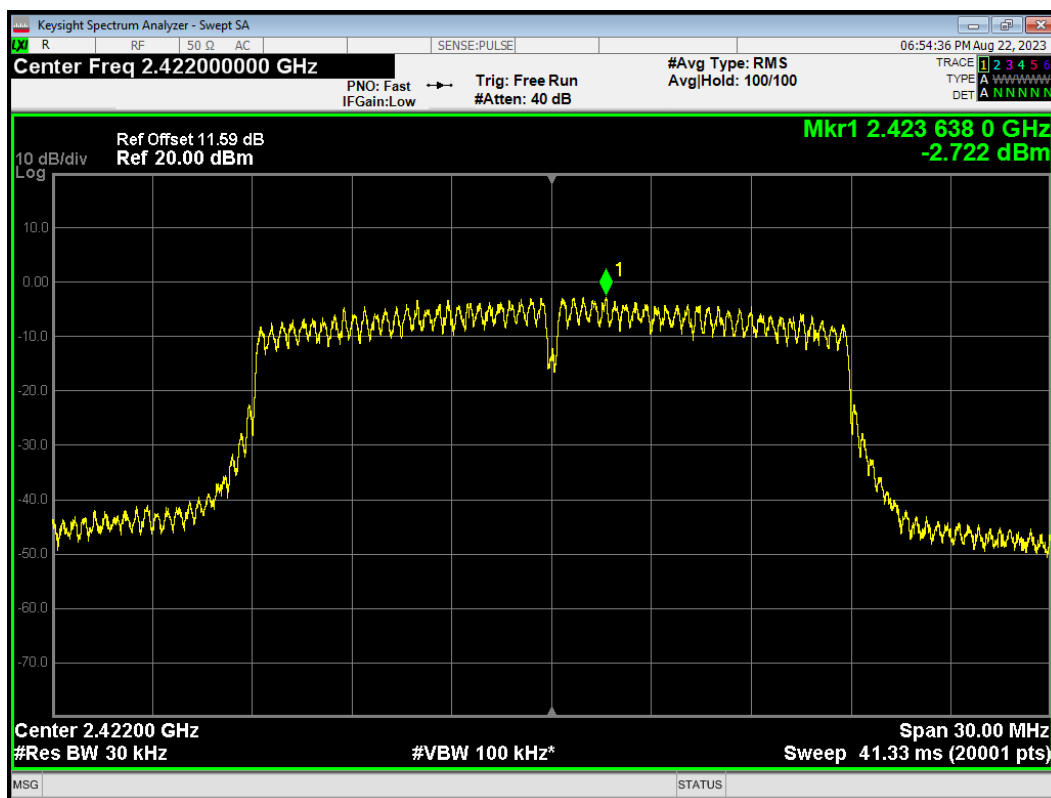
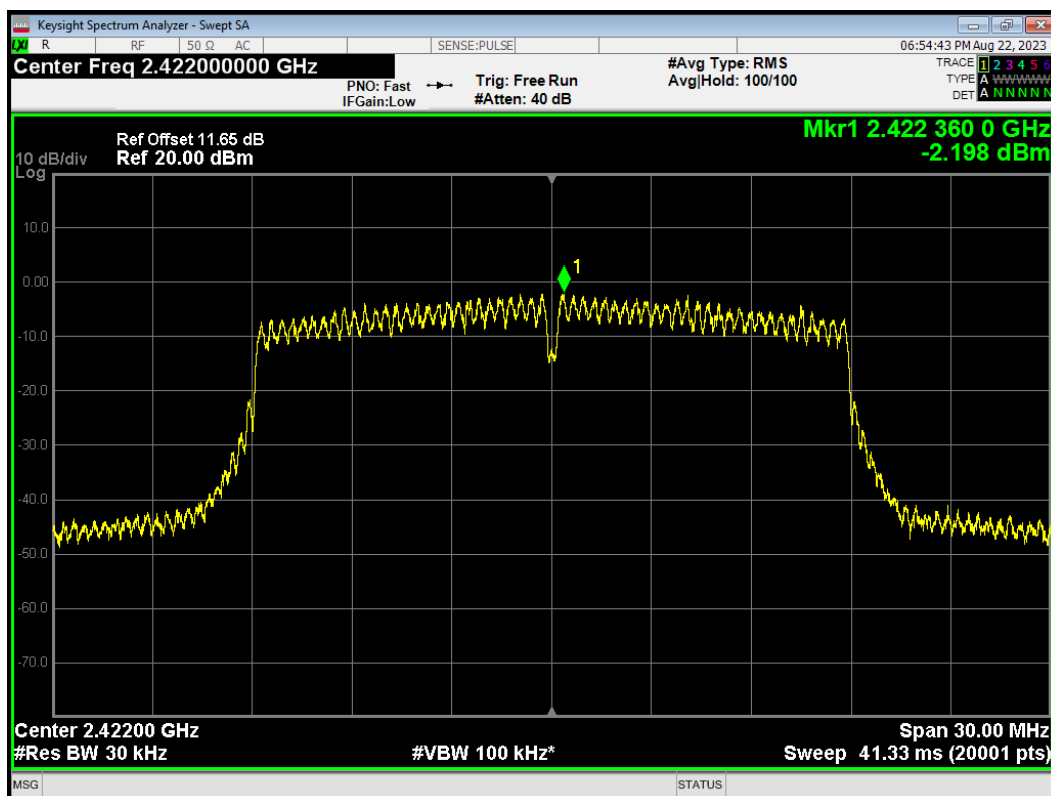


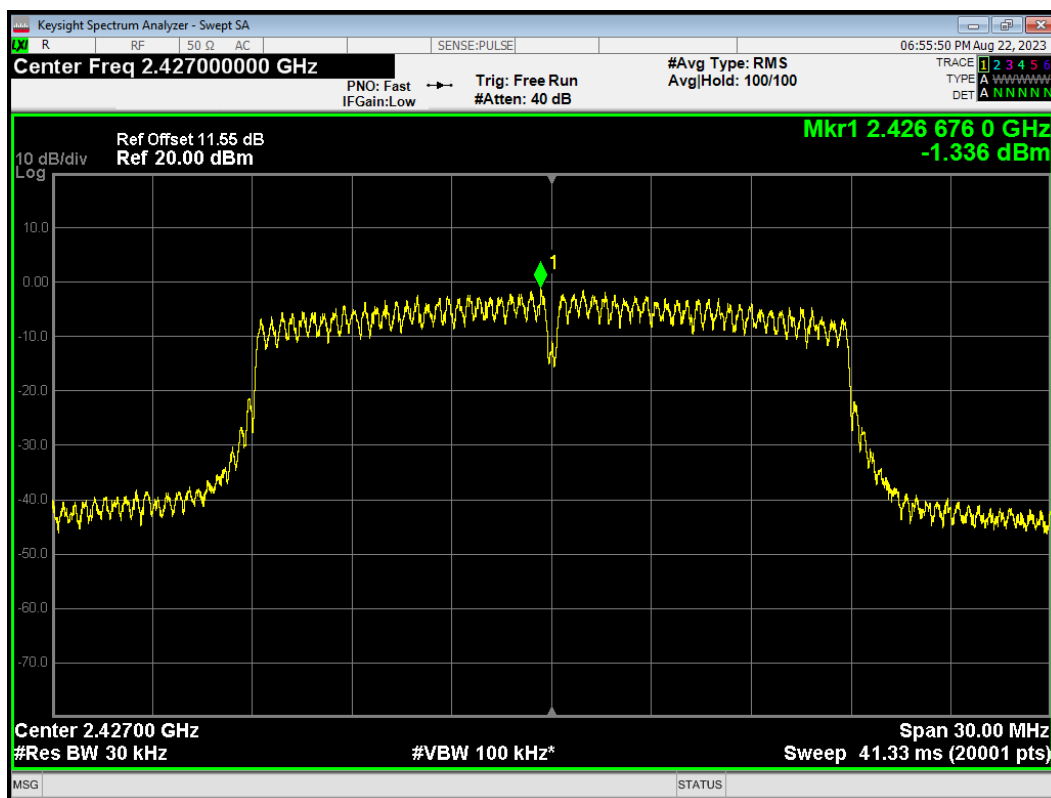
PSD 802.11n(HT20) 2422MHz Ant1



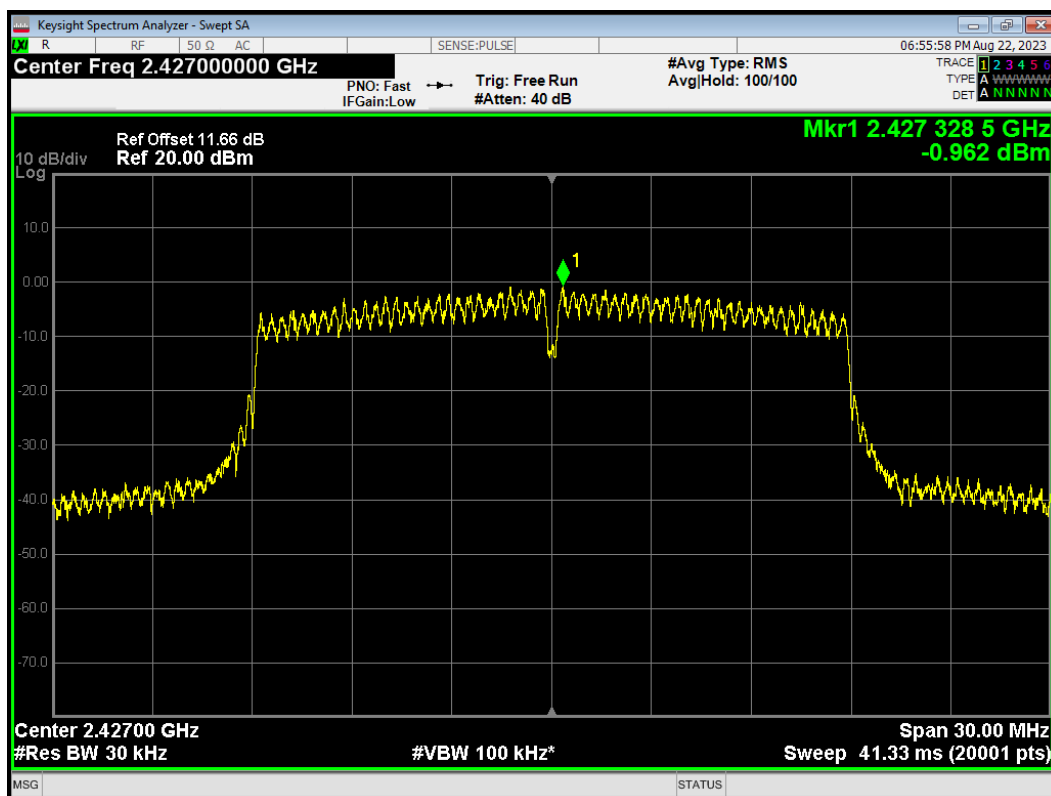
PSD 802.11n(HT20) 2422MHz Ant2



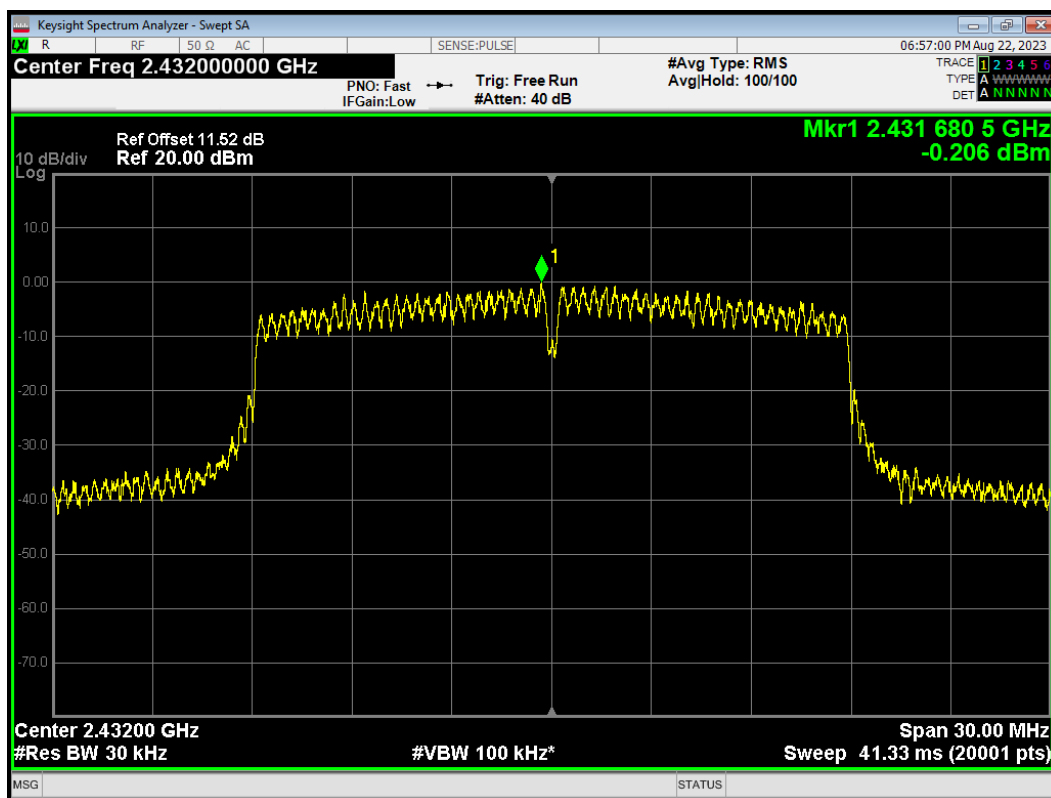
PSD 802.11n(HT20) 2427MHz Ant1



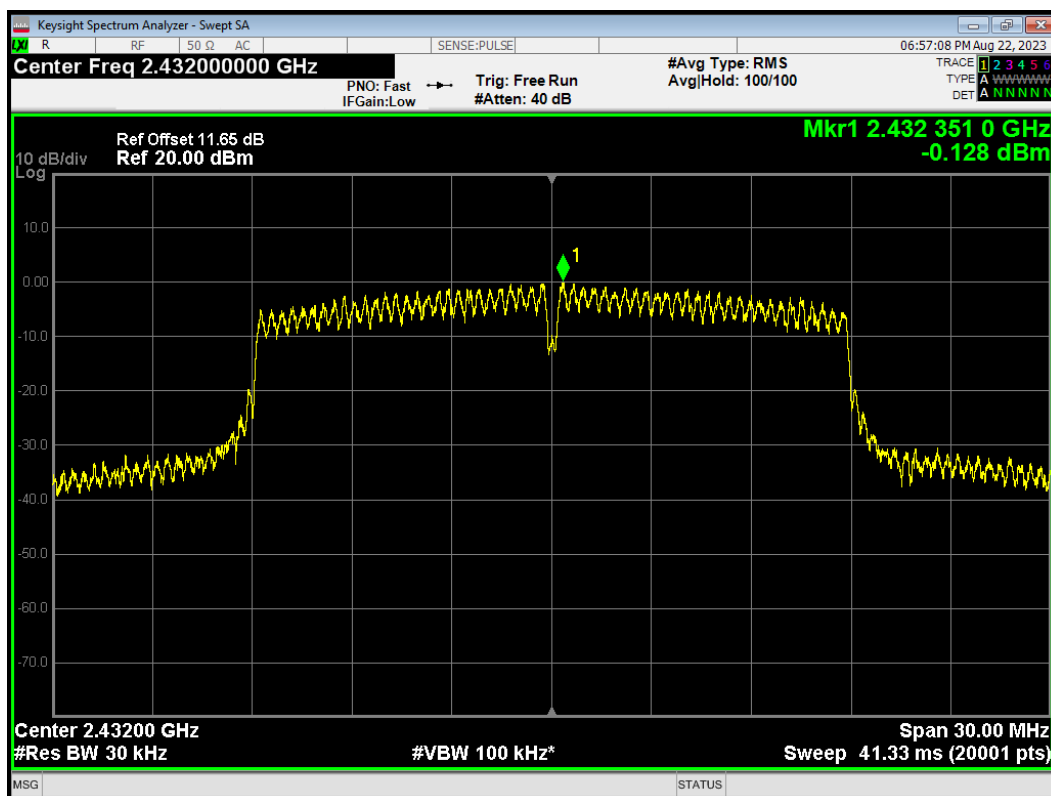
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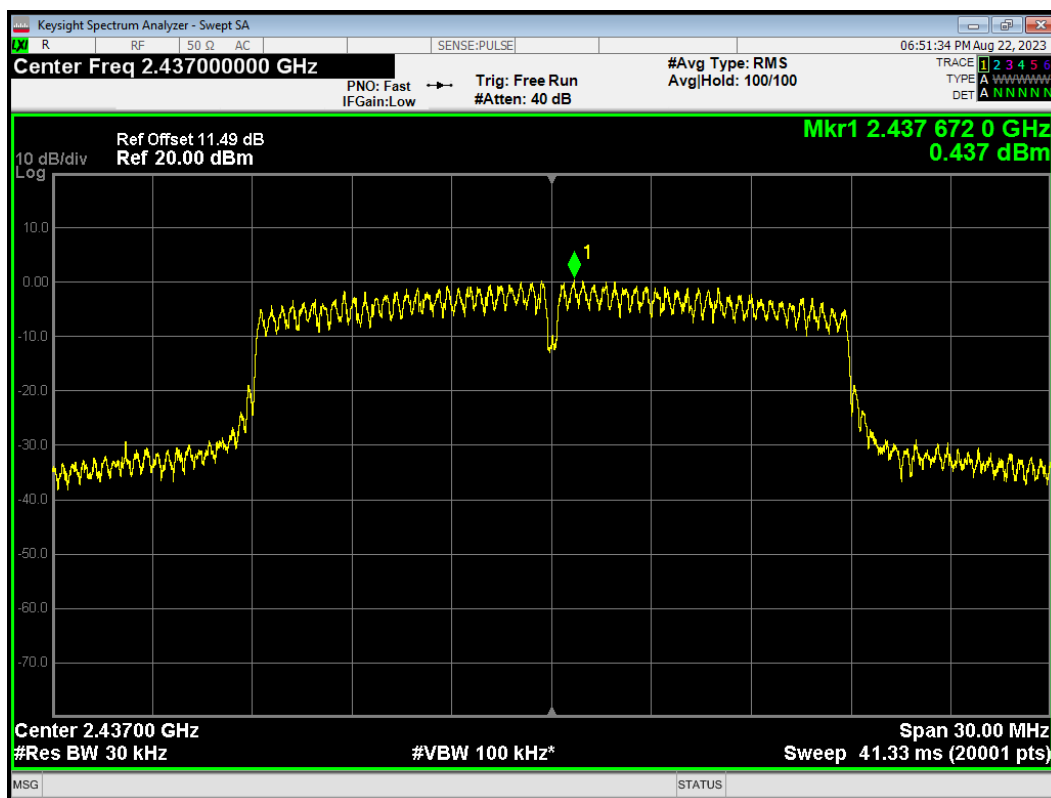
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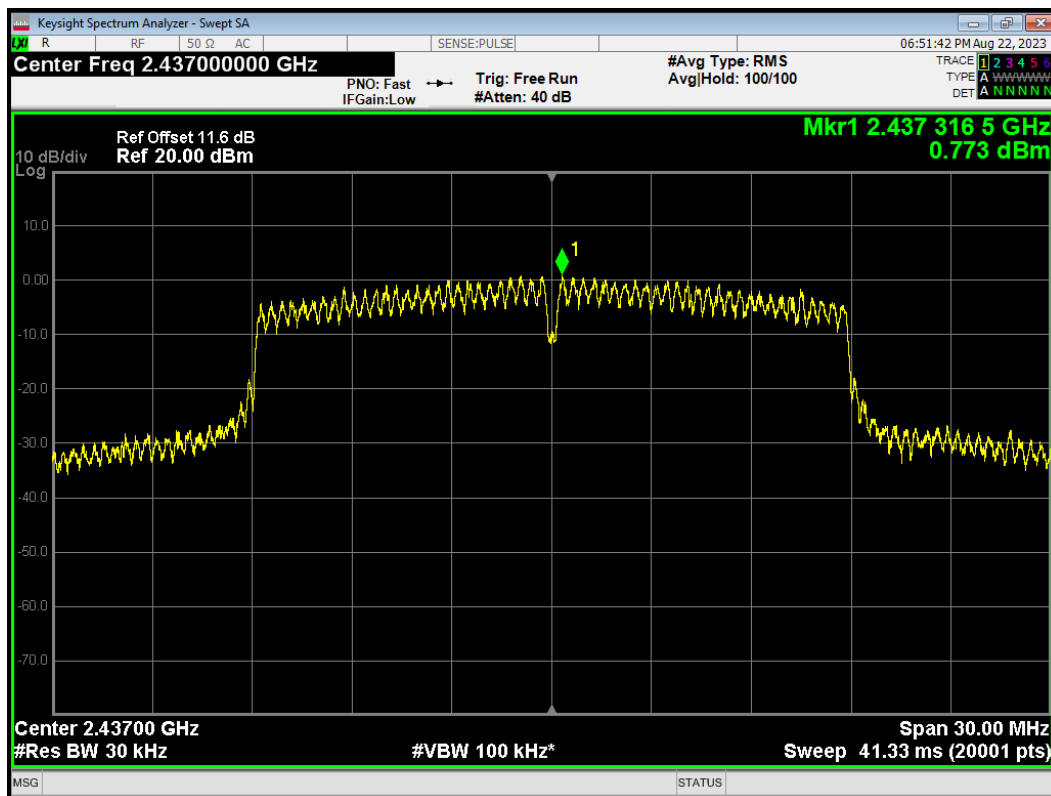
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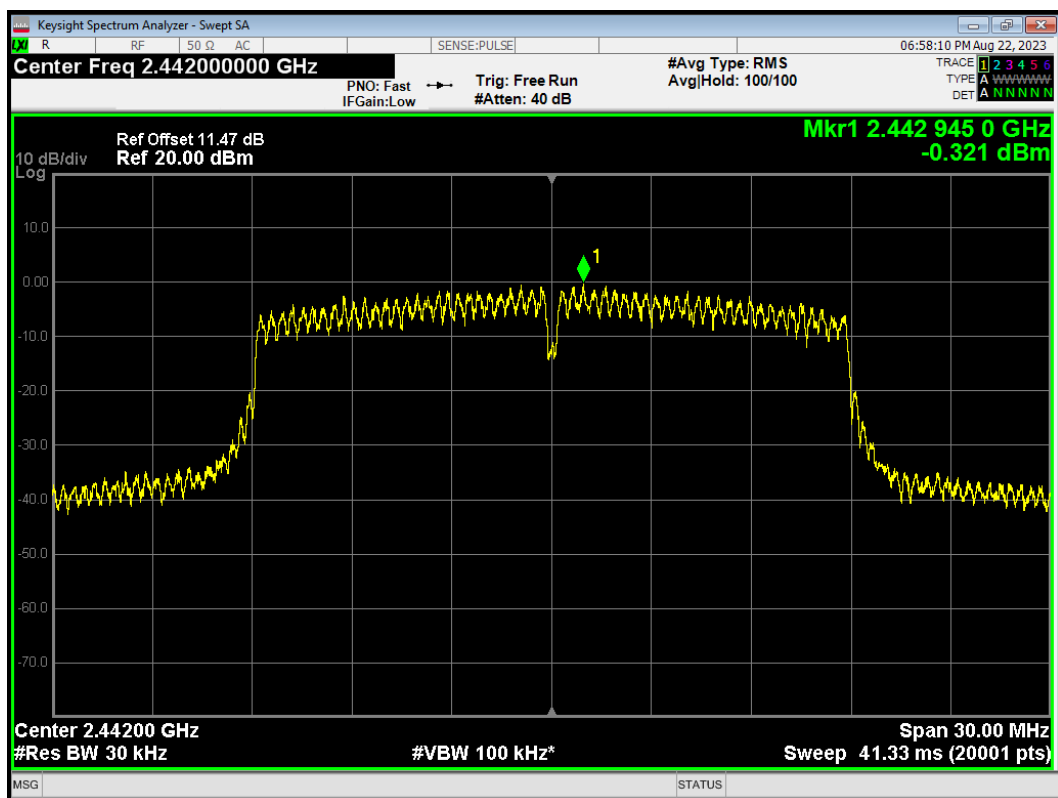
PSD 802.11n(HT20) 2437MHz Ant1



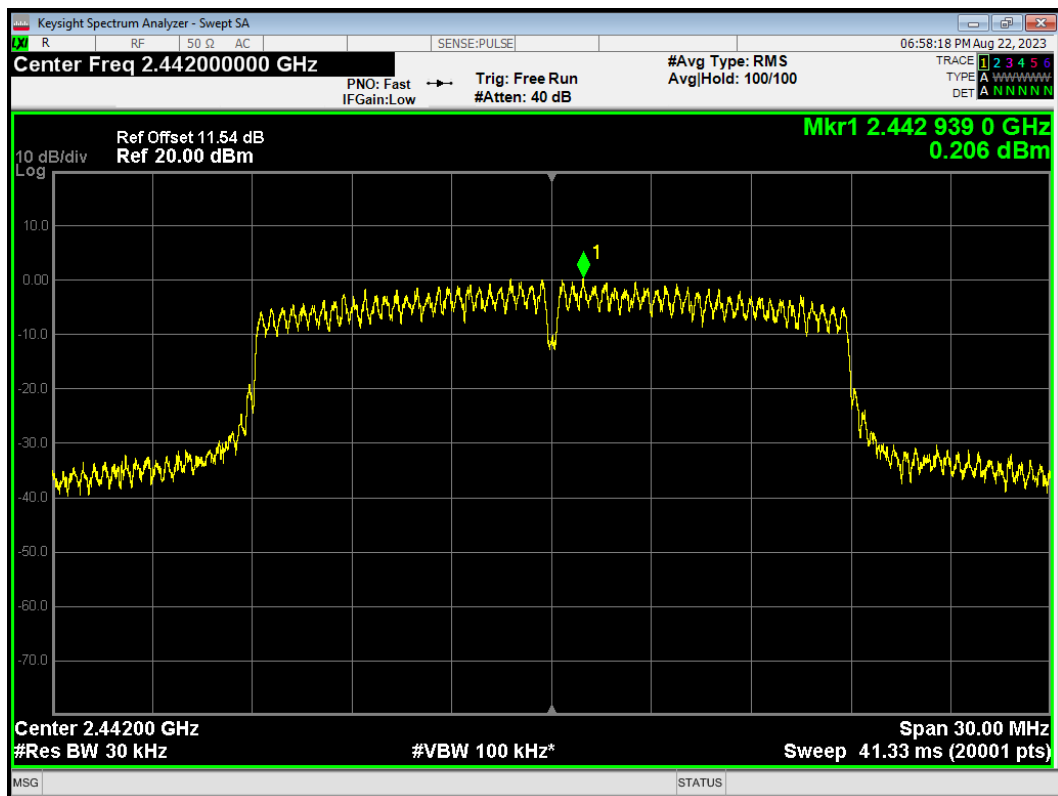
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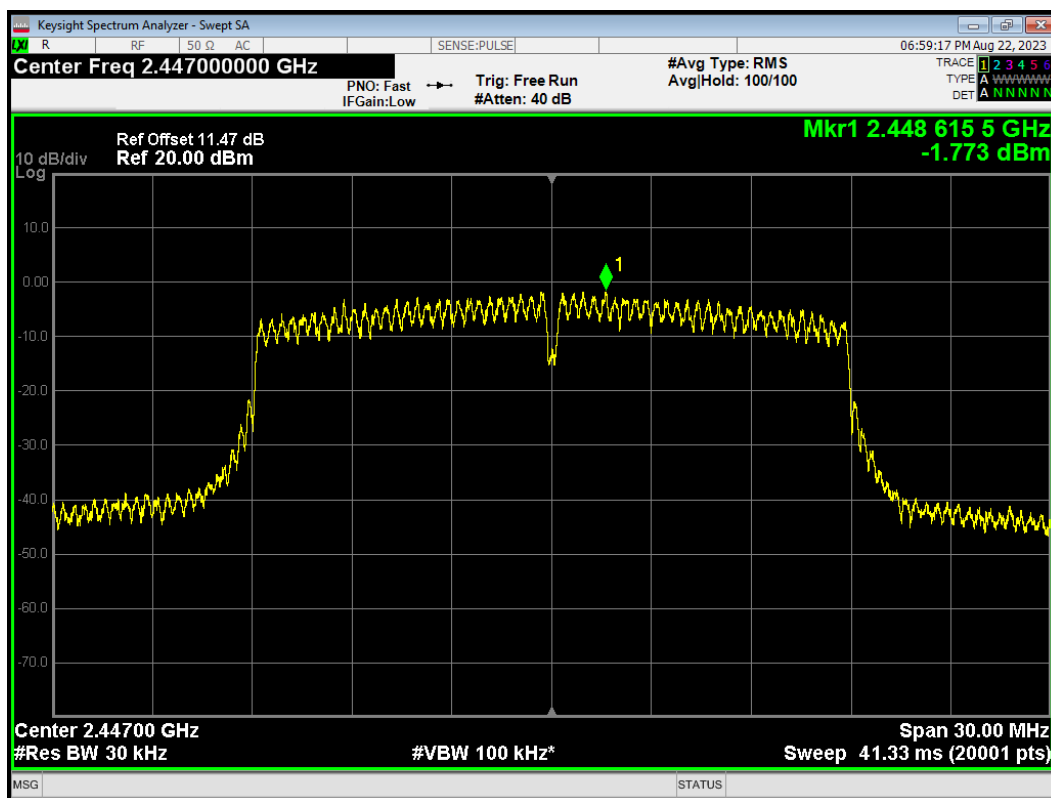
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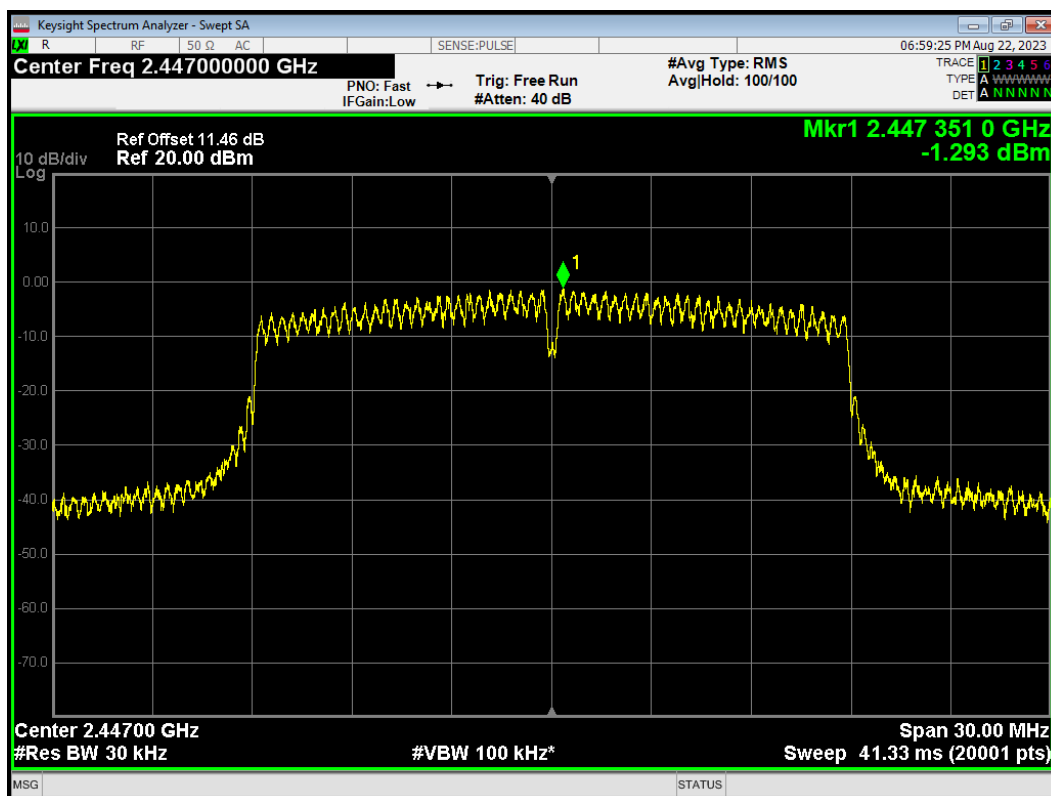
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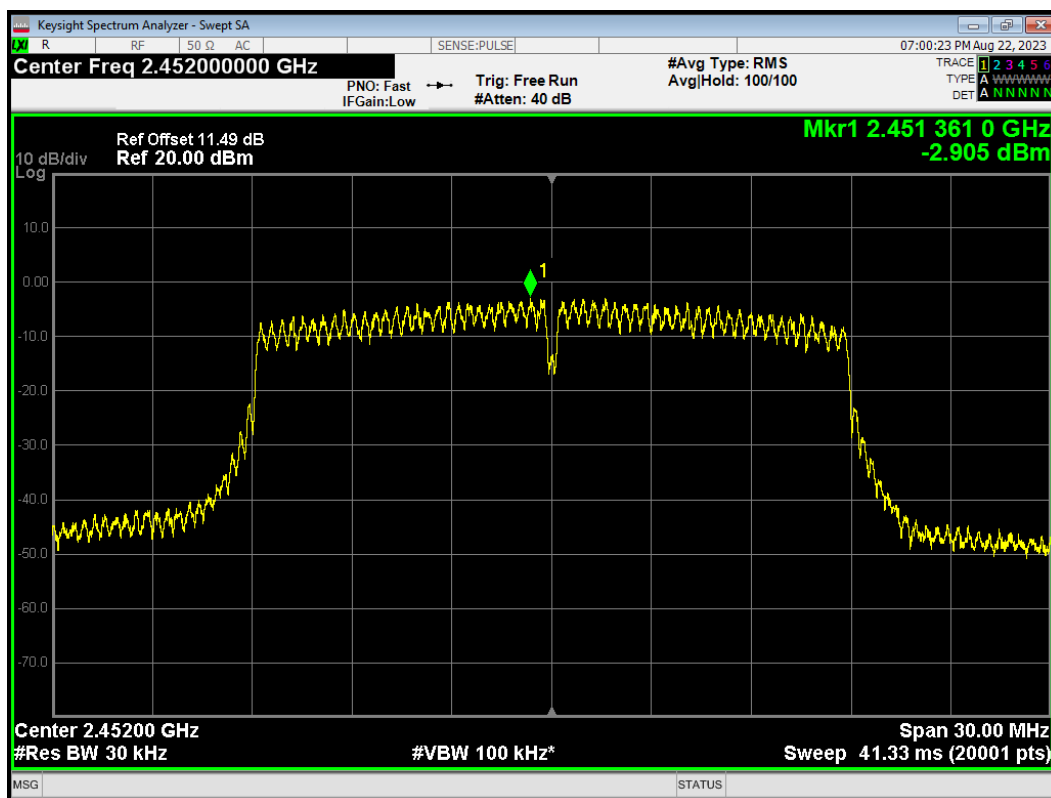
PSD 802.11n(HT20) 2447MHz Ant1



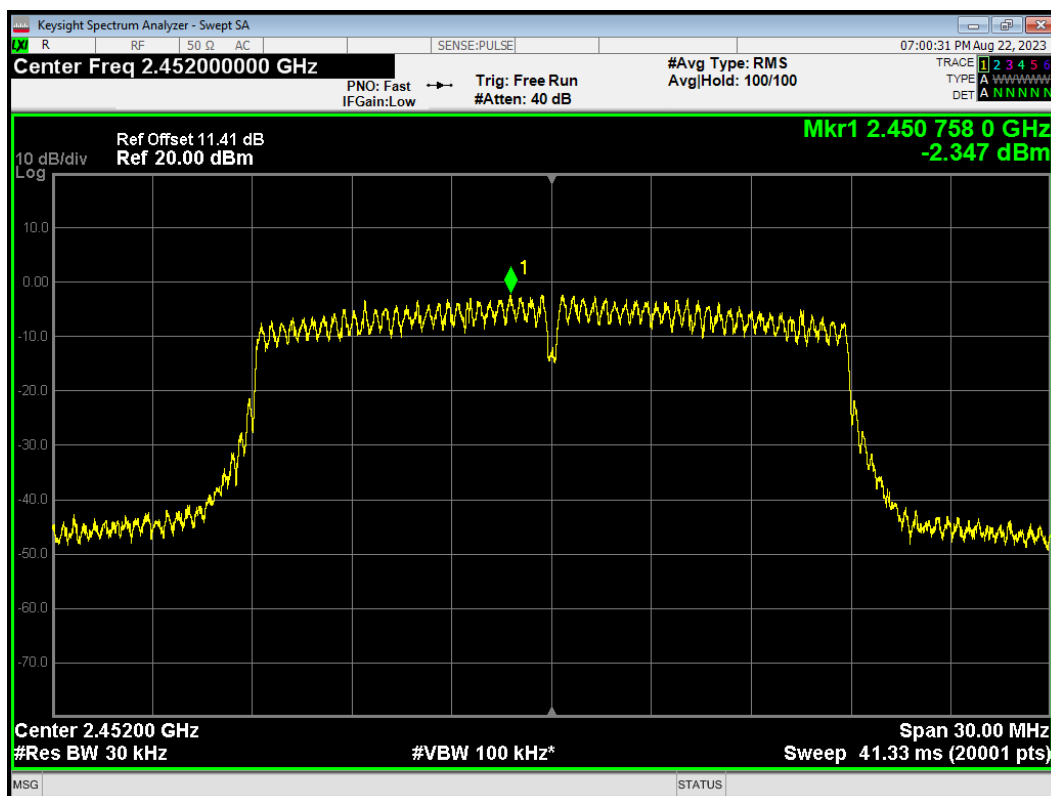
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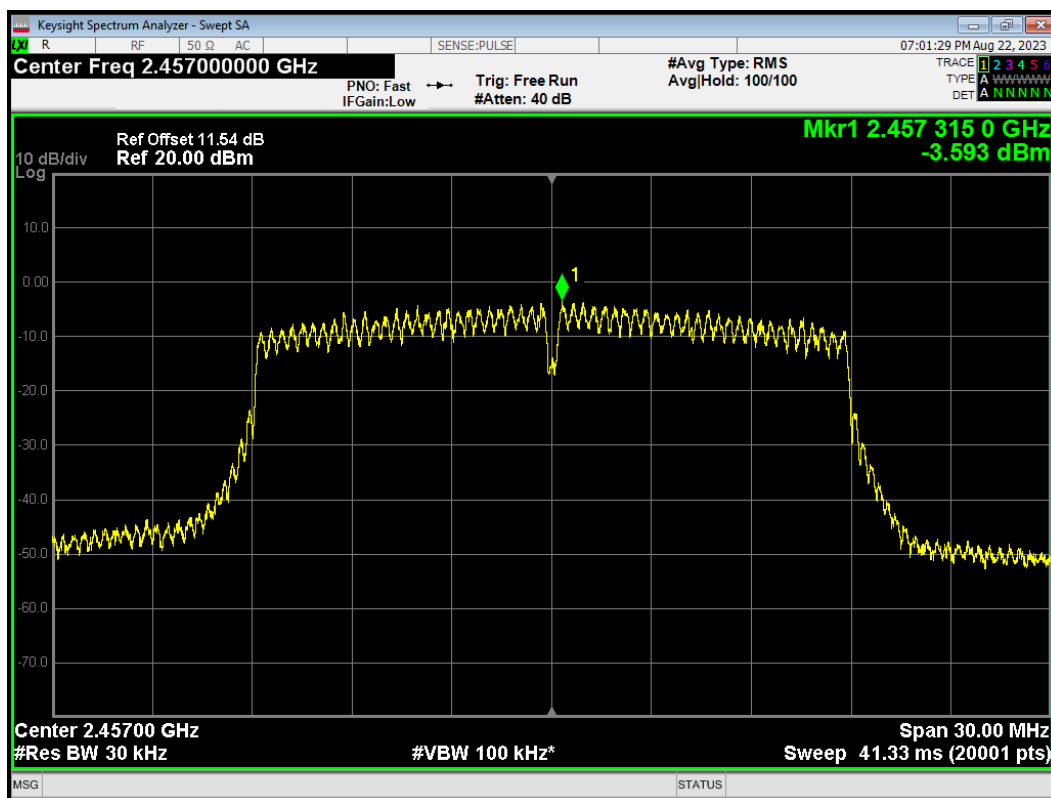
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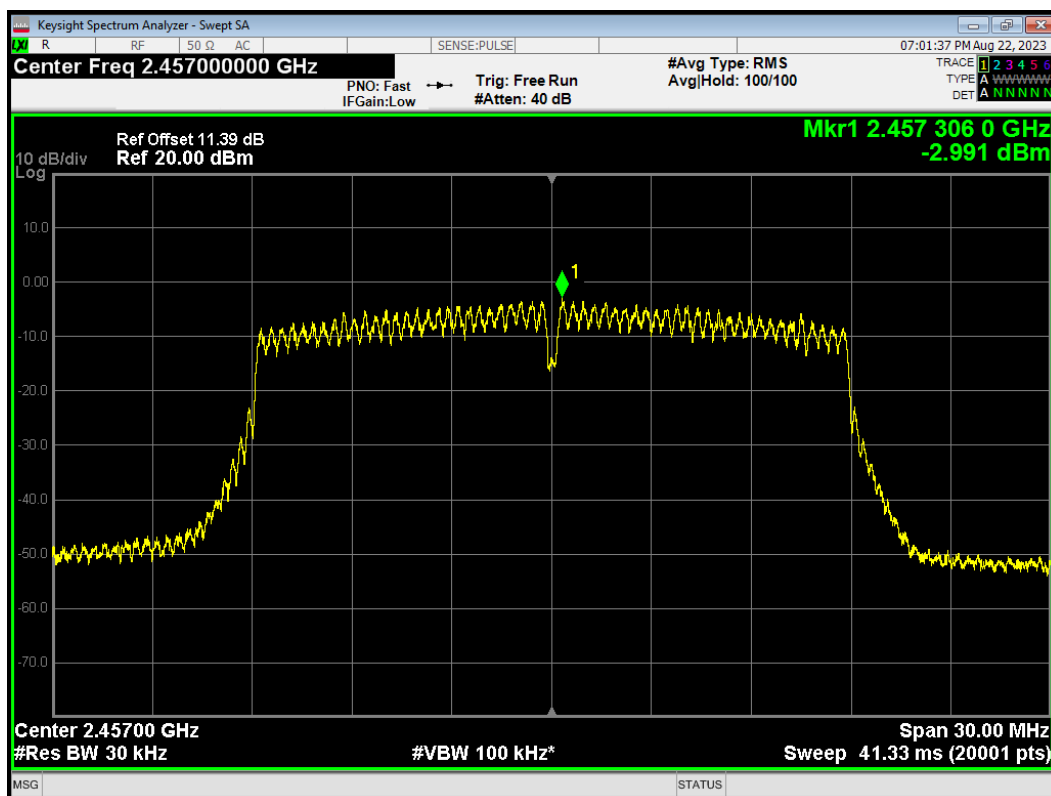
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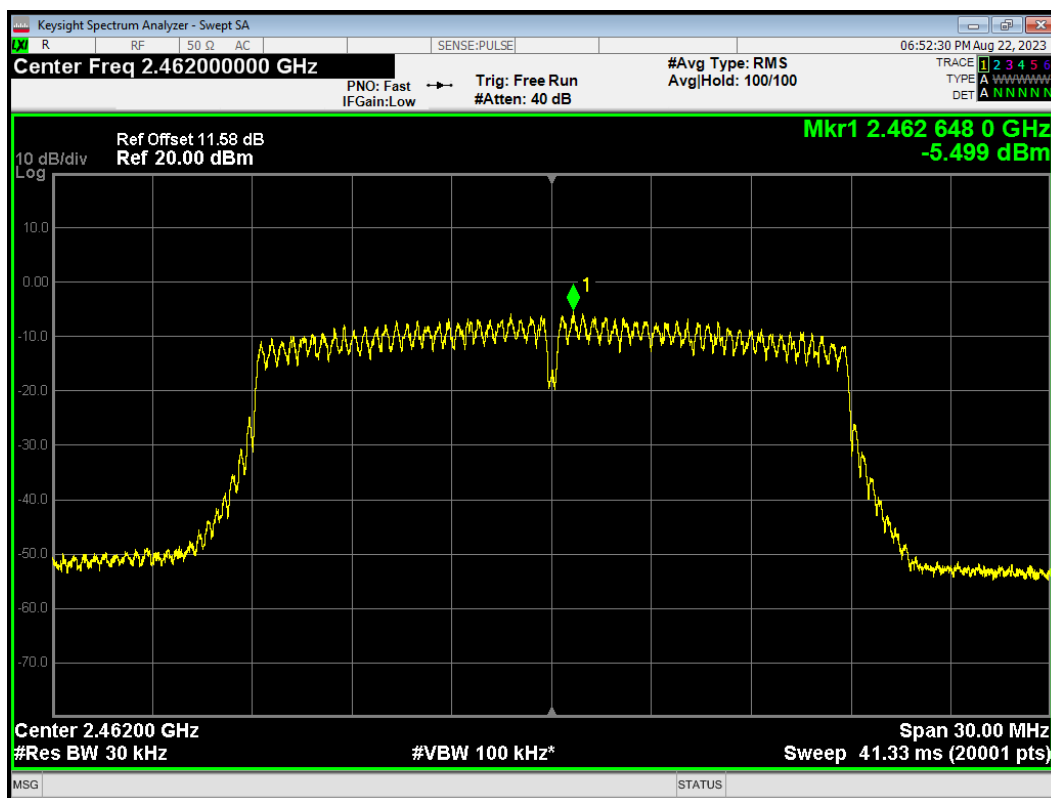
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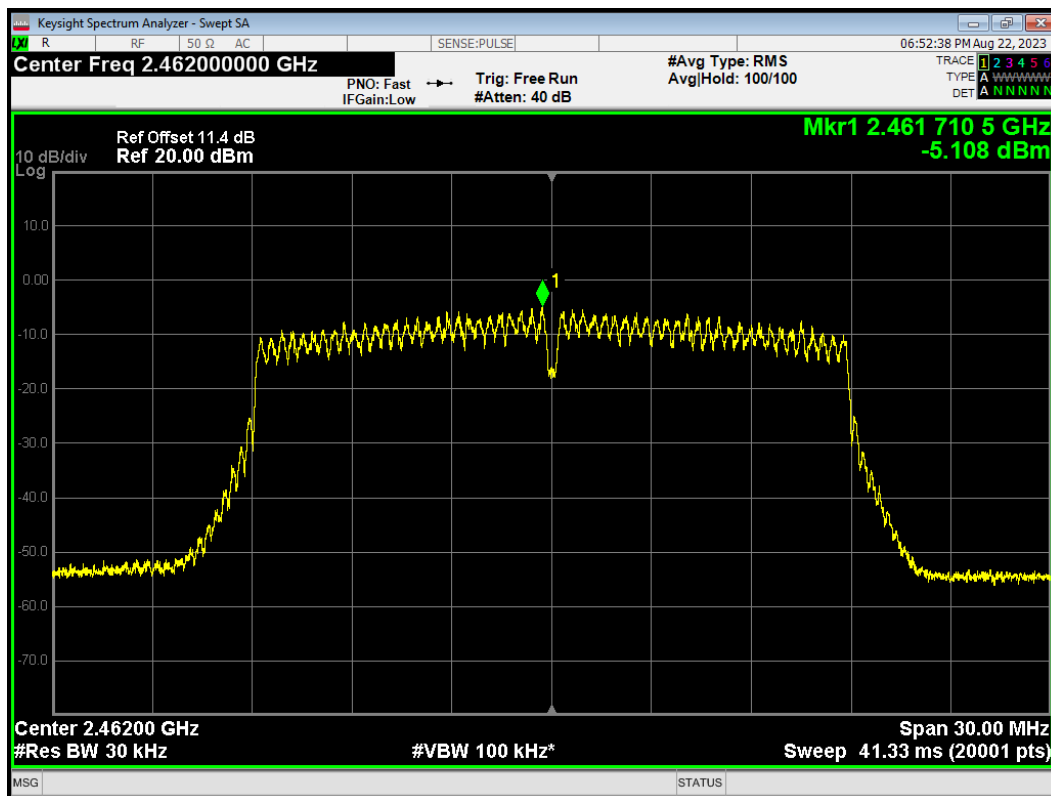
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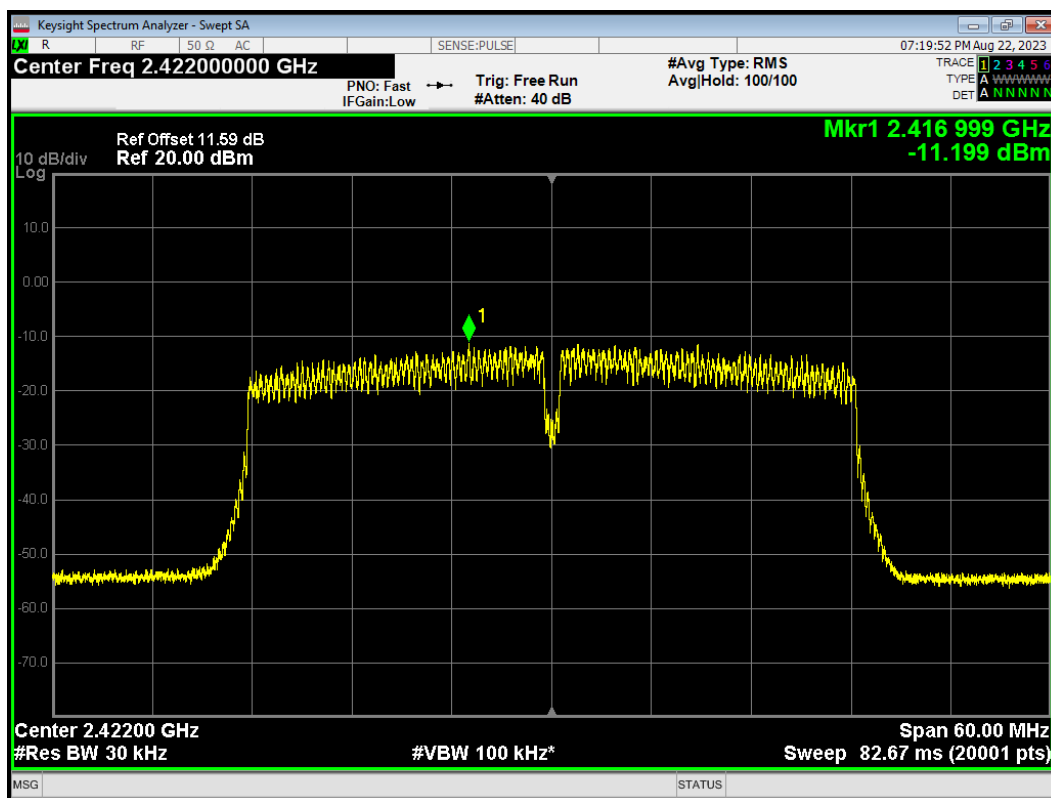
PSD 802.11n(HT20) 2462MHz Ant1



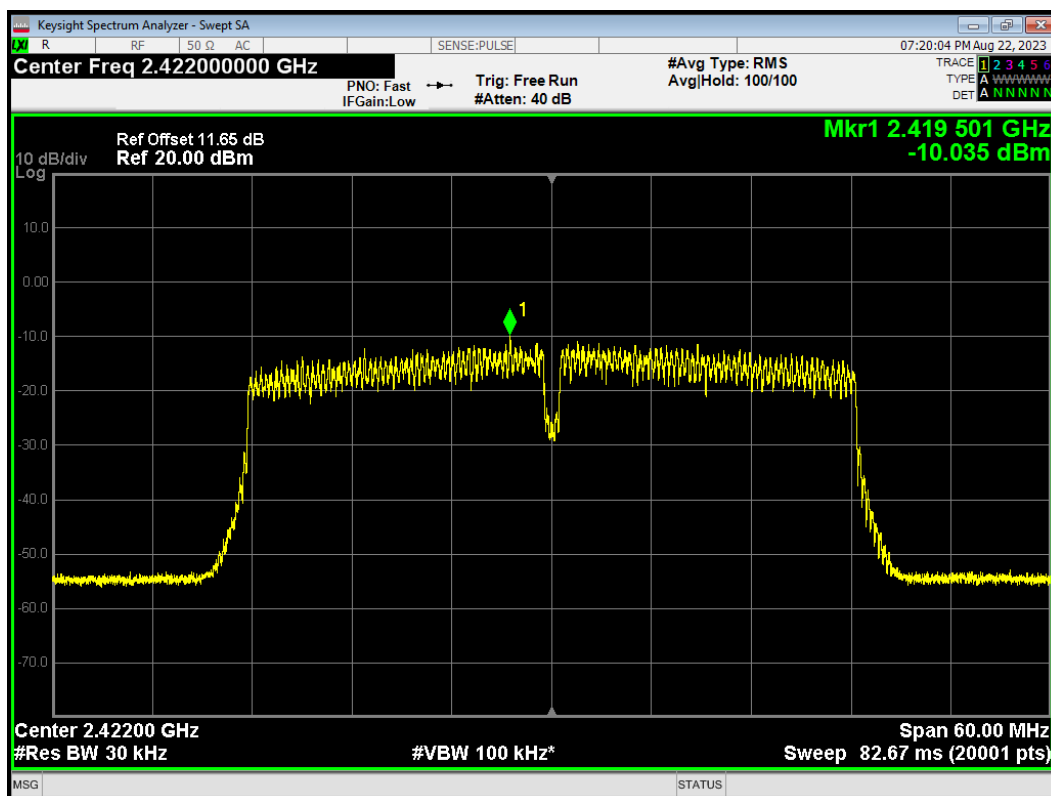
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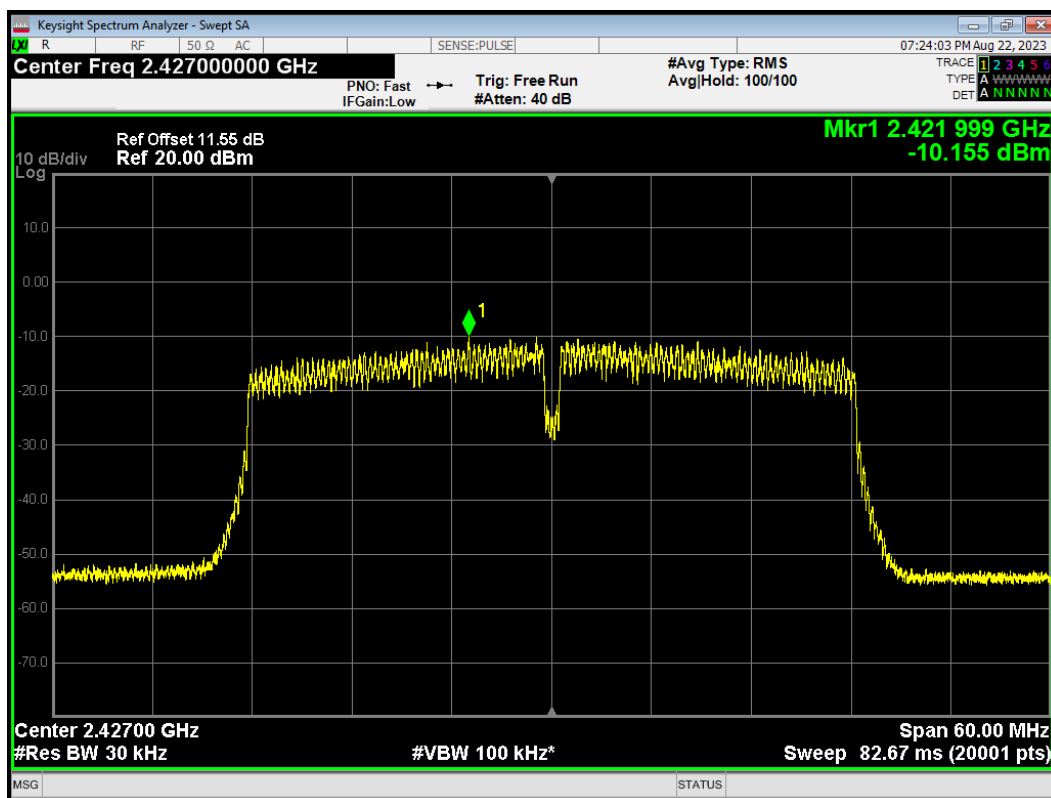
PSD 802.11n(HT40) 2422MHz Ant1



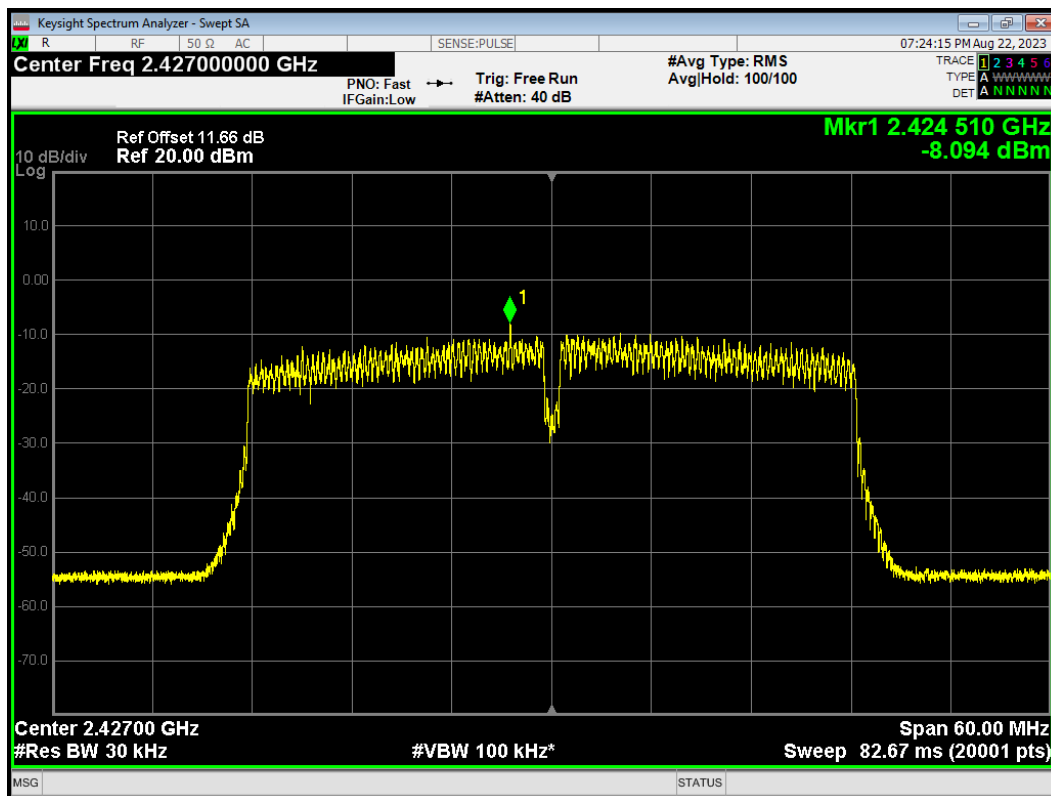
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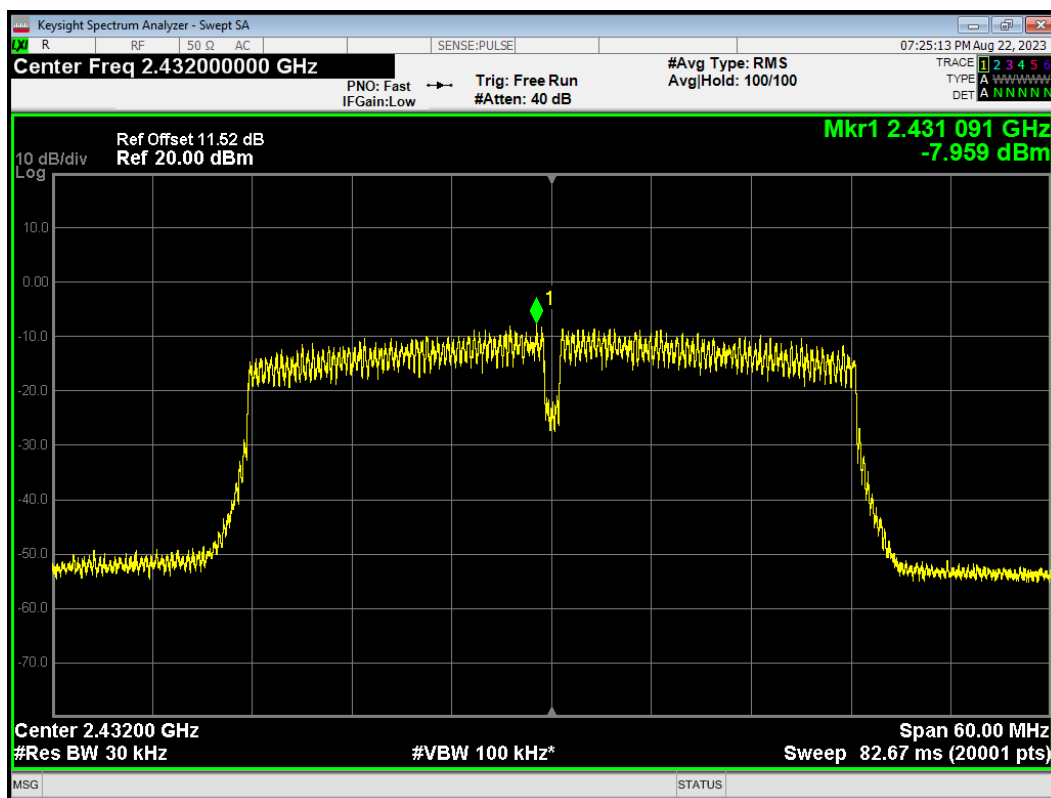
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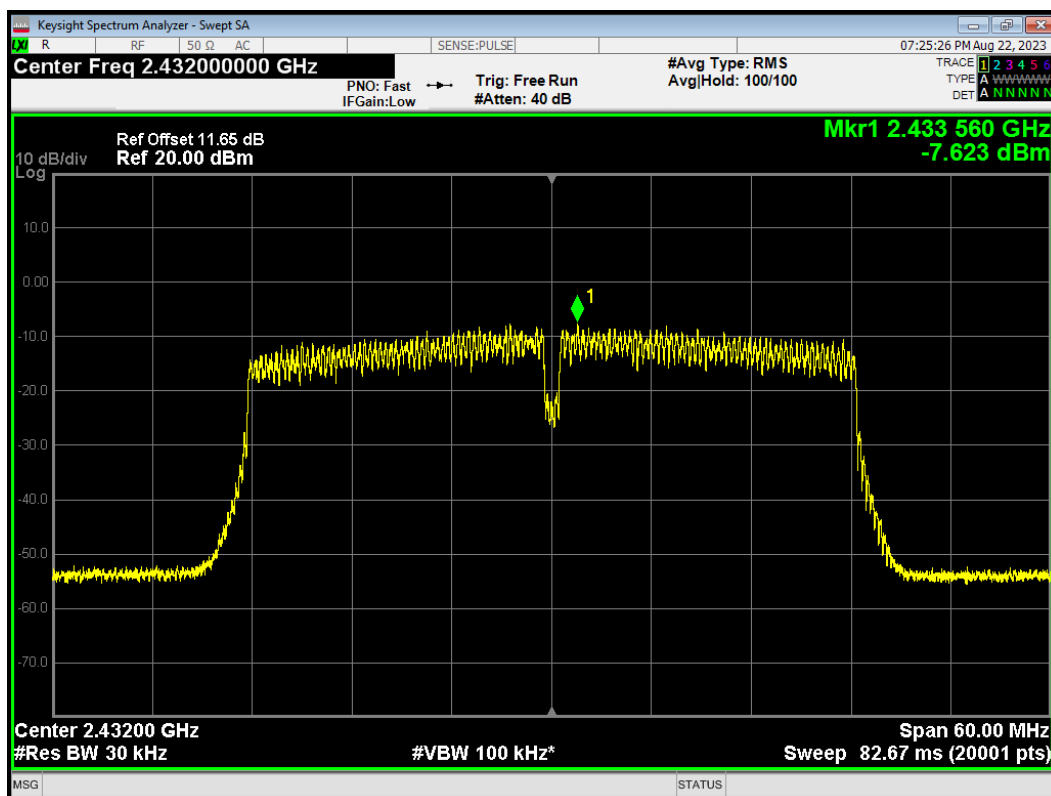
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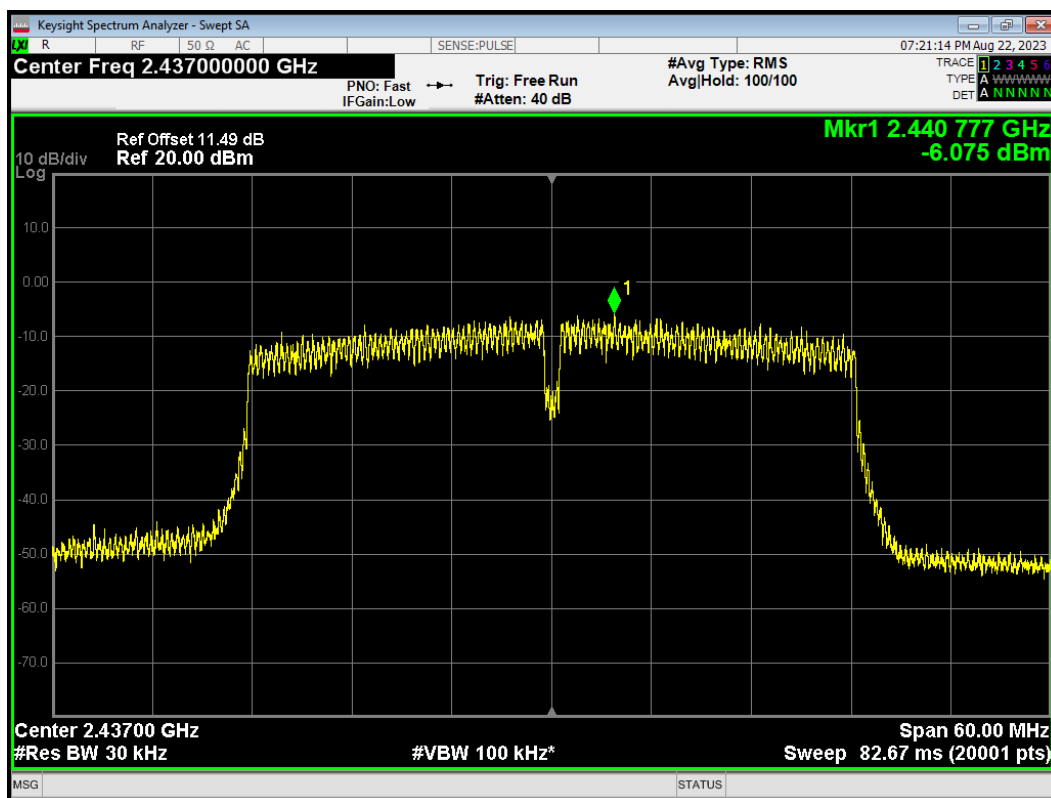
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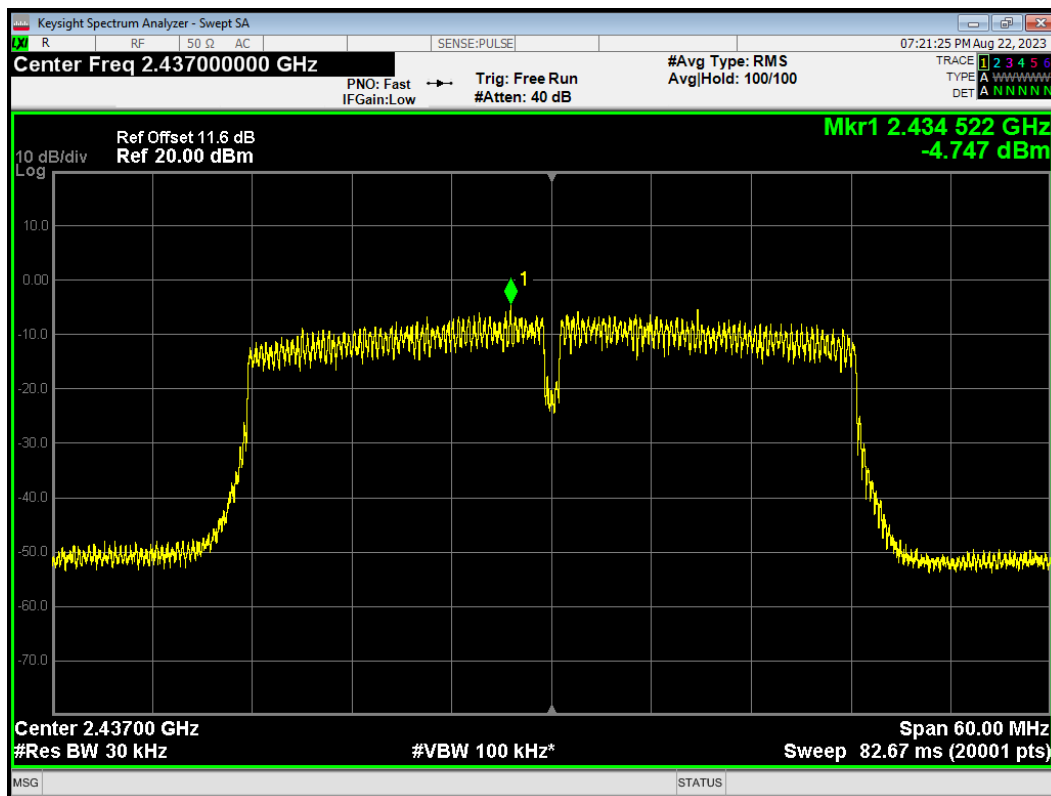
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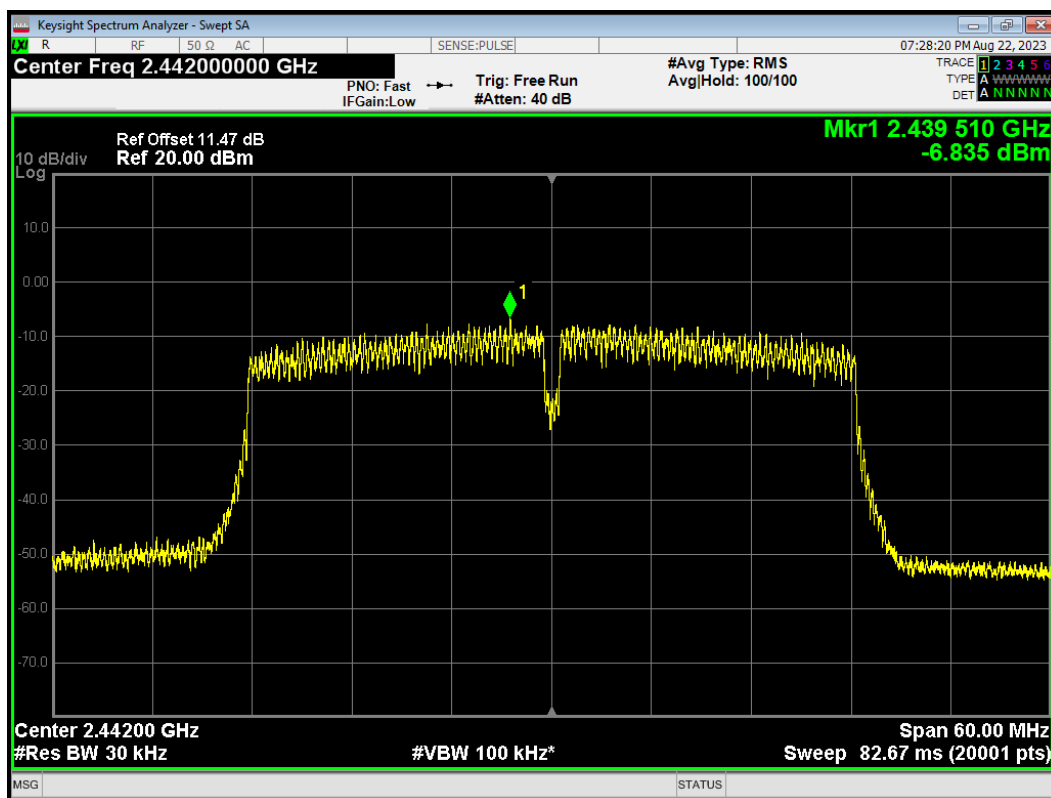
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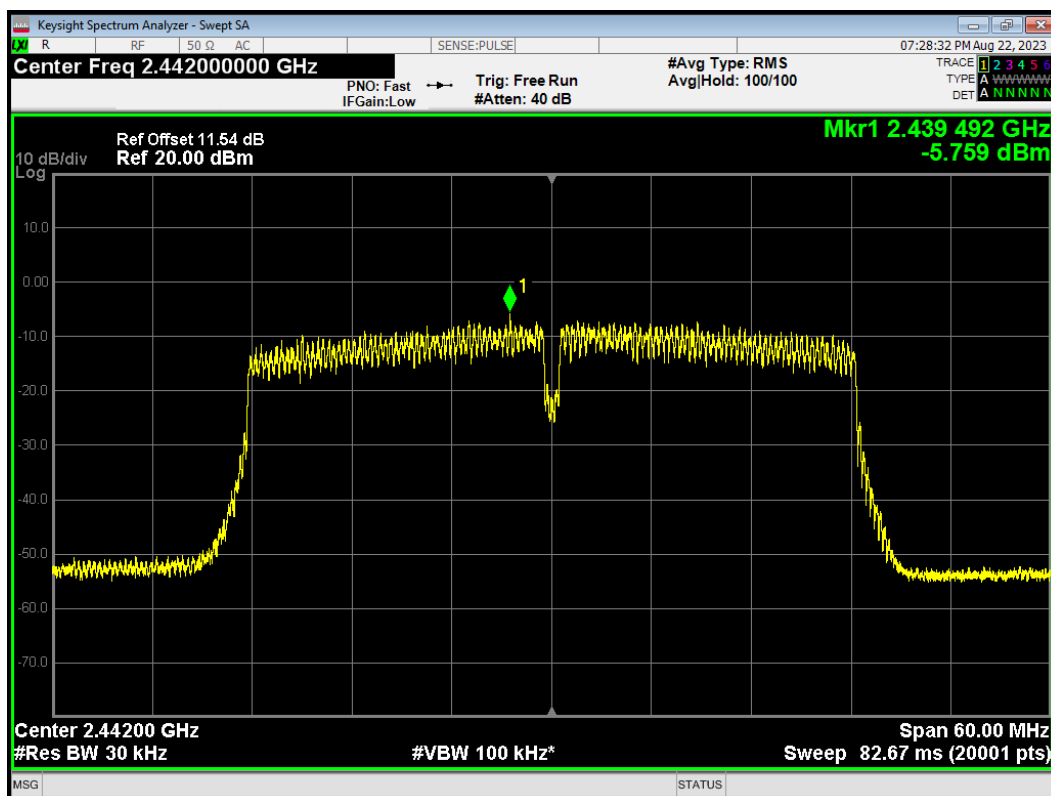
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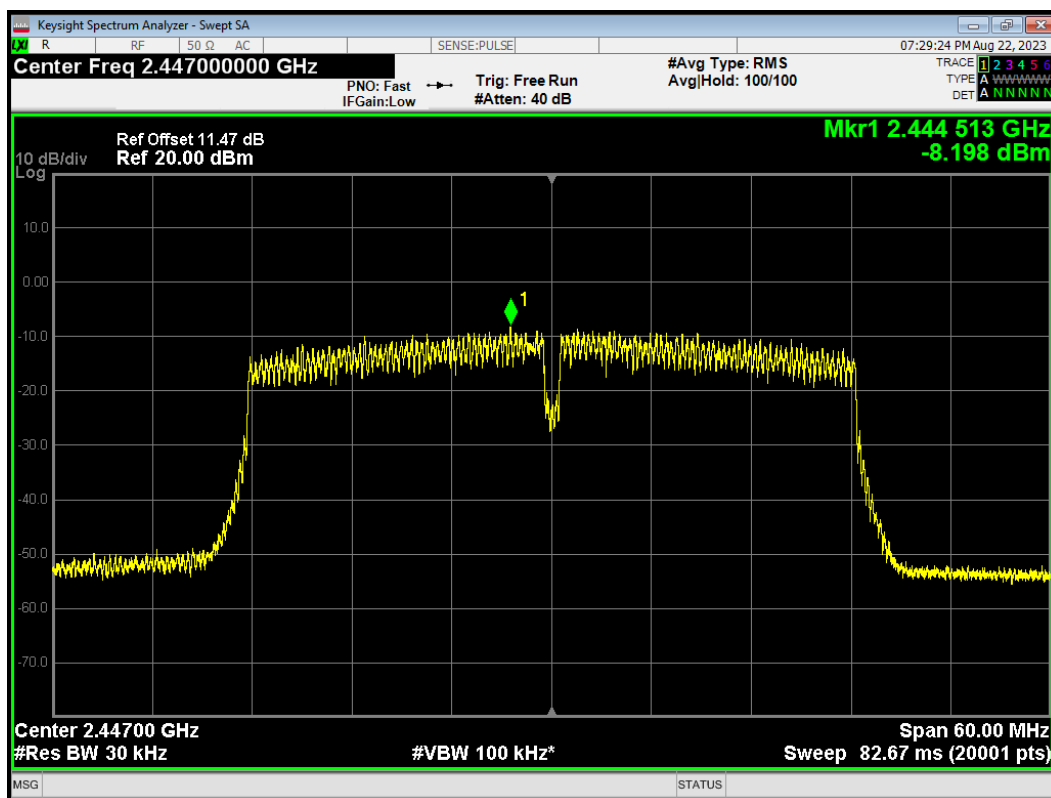
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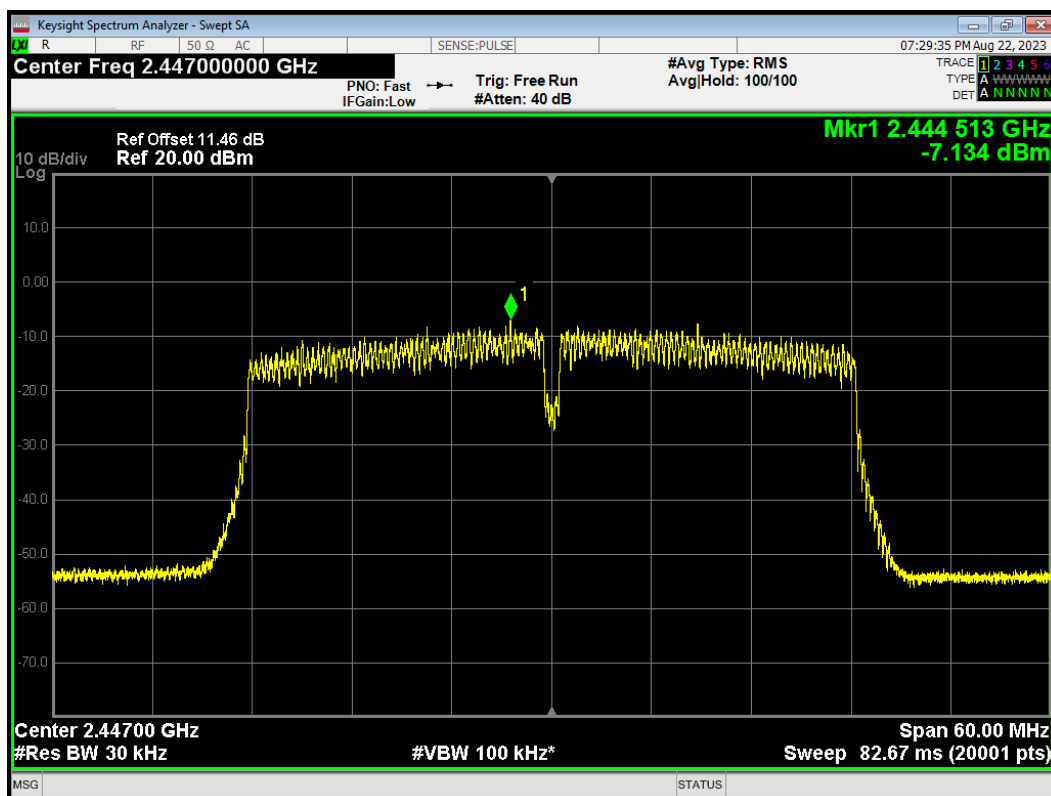
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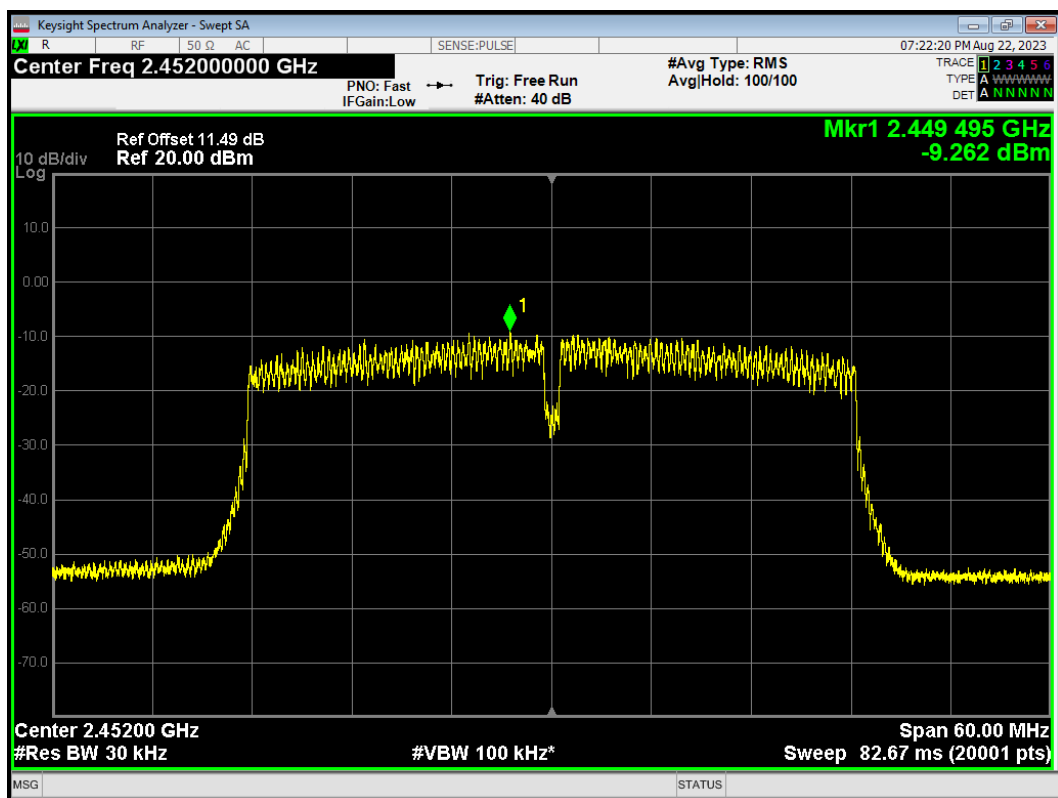
PSD 802.11n(HT40) 2447MHz Ant1



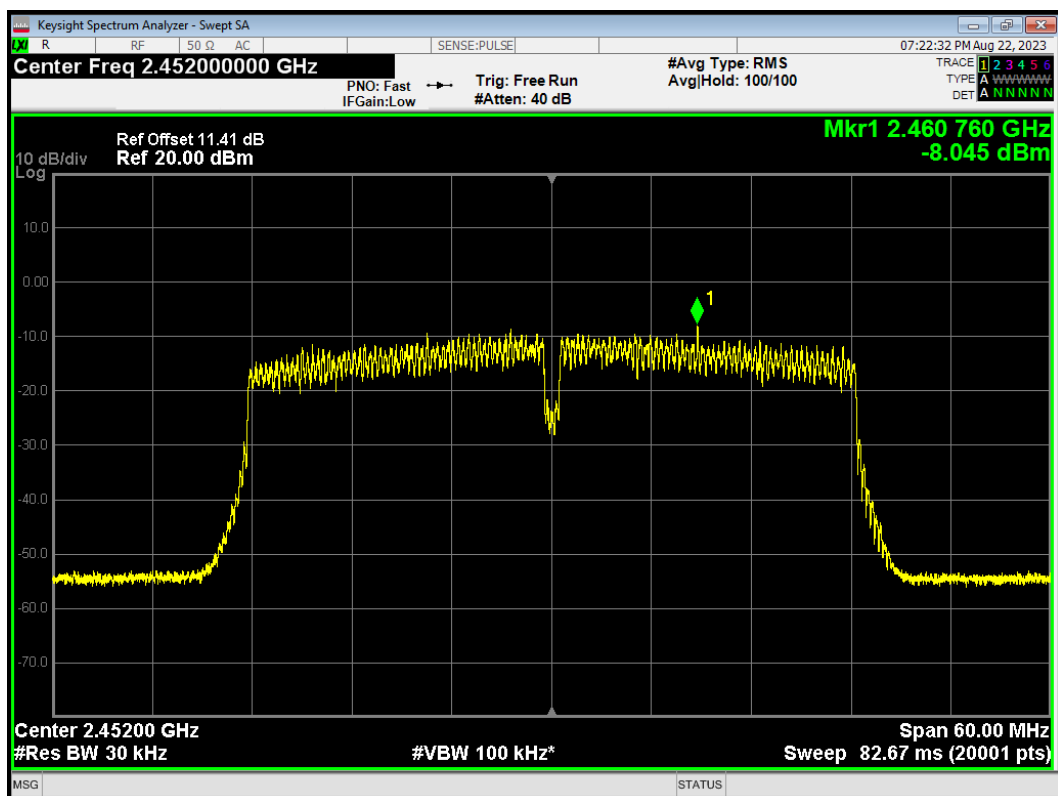
PSD 802.11n(HT40) 2447MHz Ant2



PSD 802.11n(HT40) 2452MHz Ant1



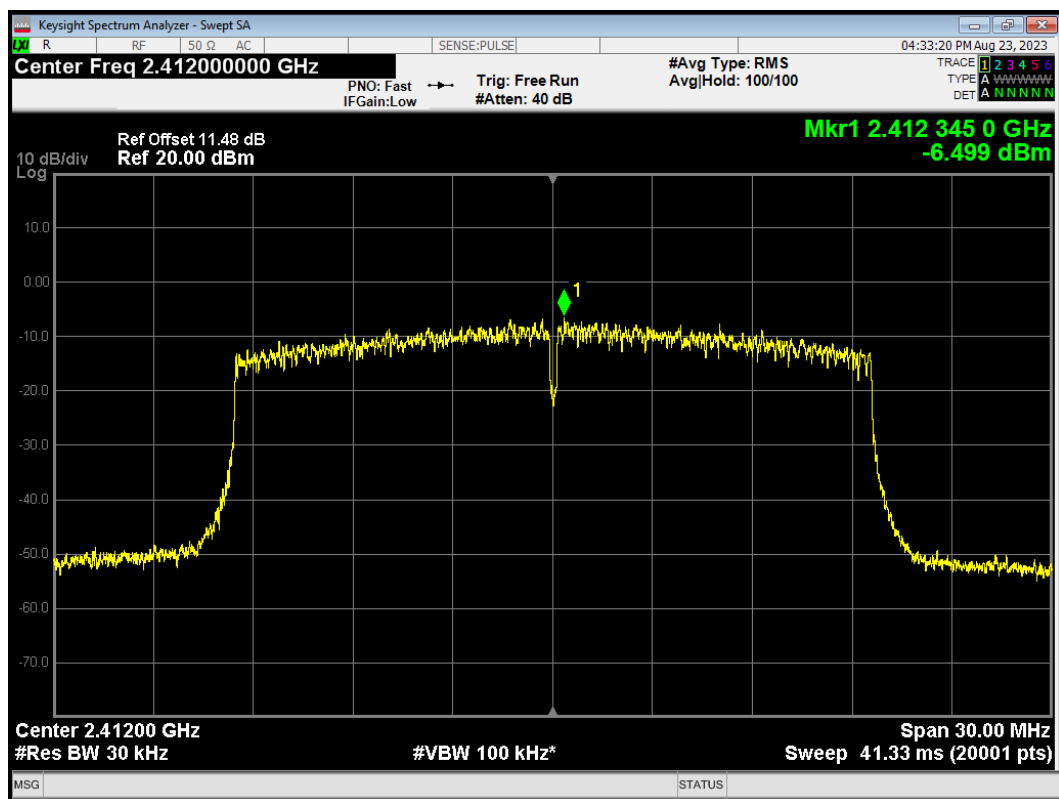
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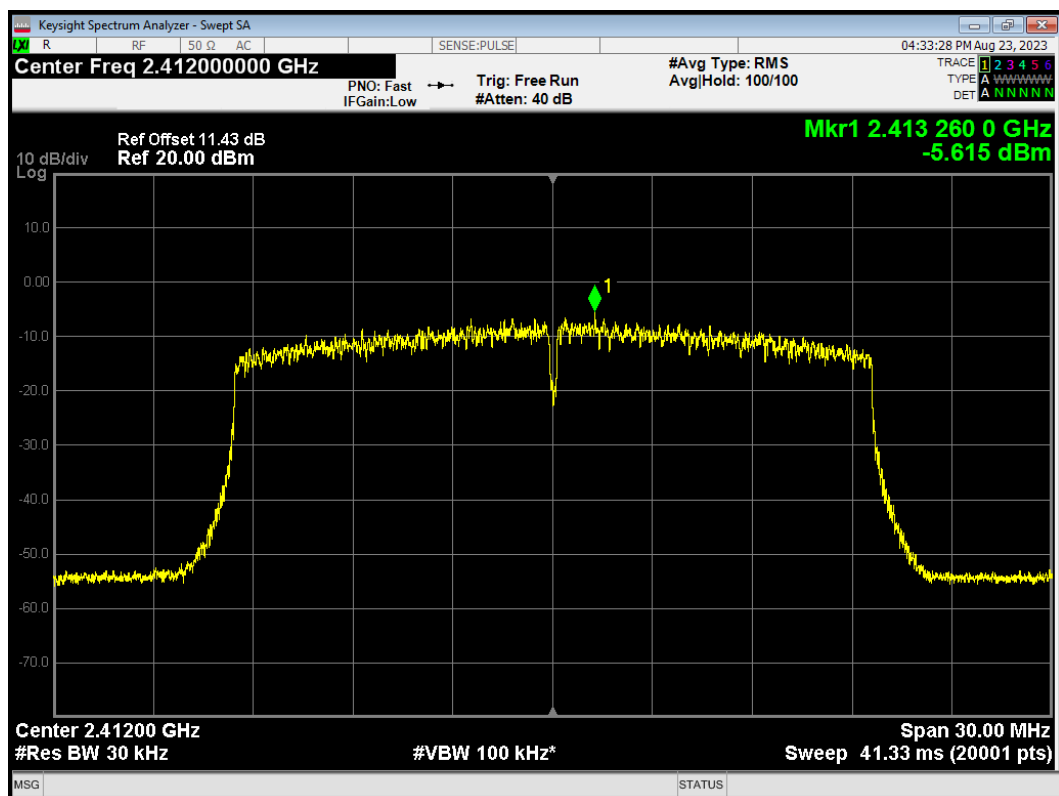
Beamforming

Antenna 2 + Antenna 3

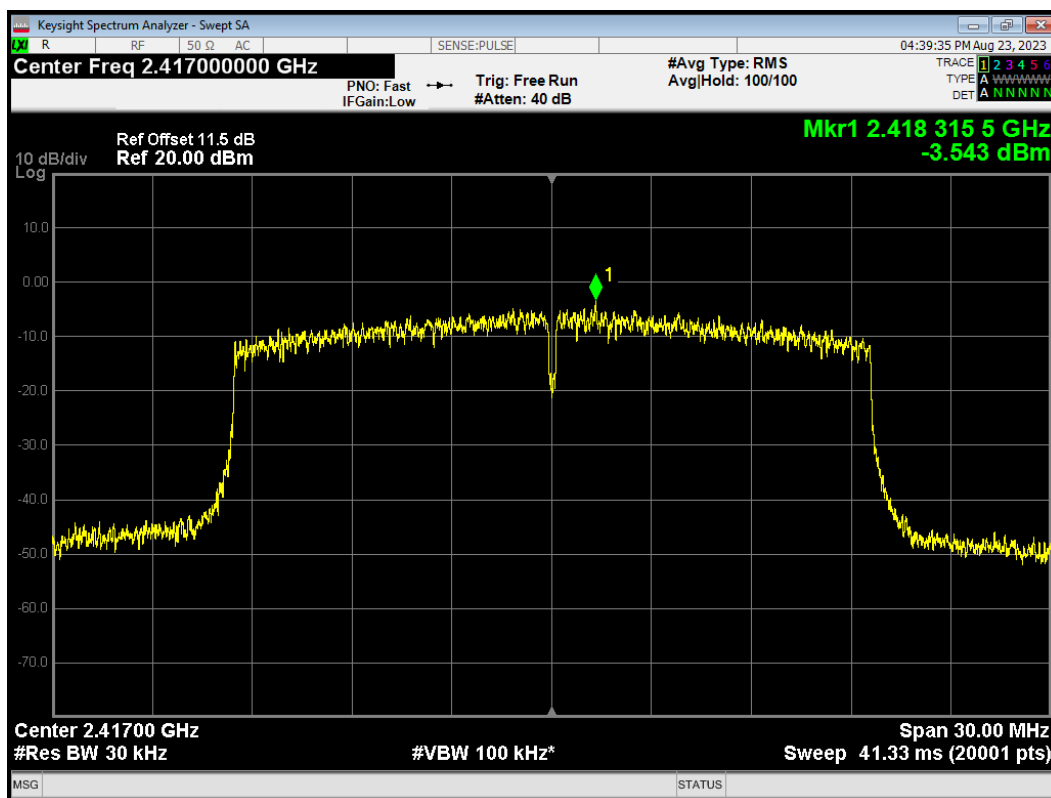
PSD 802.11ax(HE20) 2412MHz Ant2



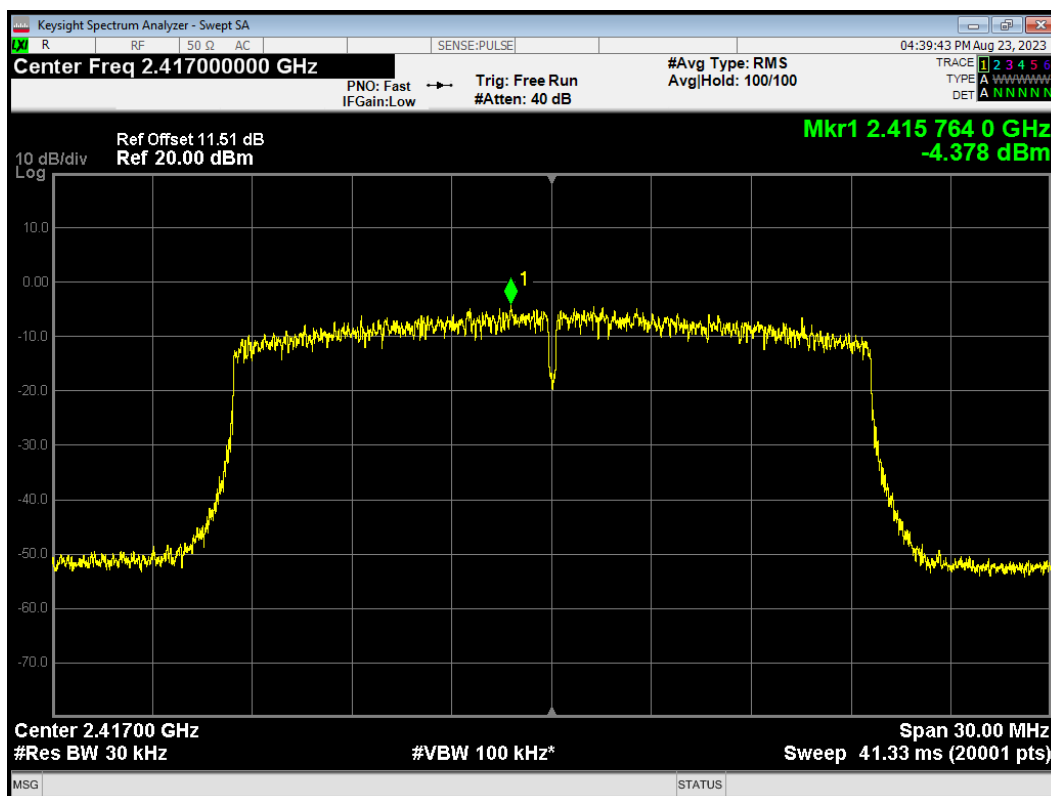
PSD 802.11ax(HE20) 2412MHz Ant3



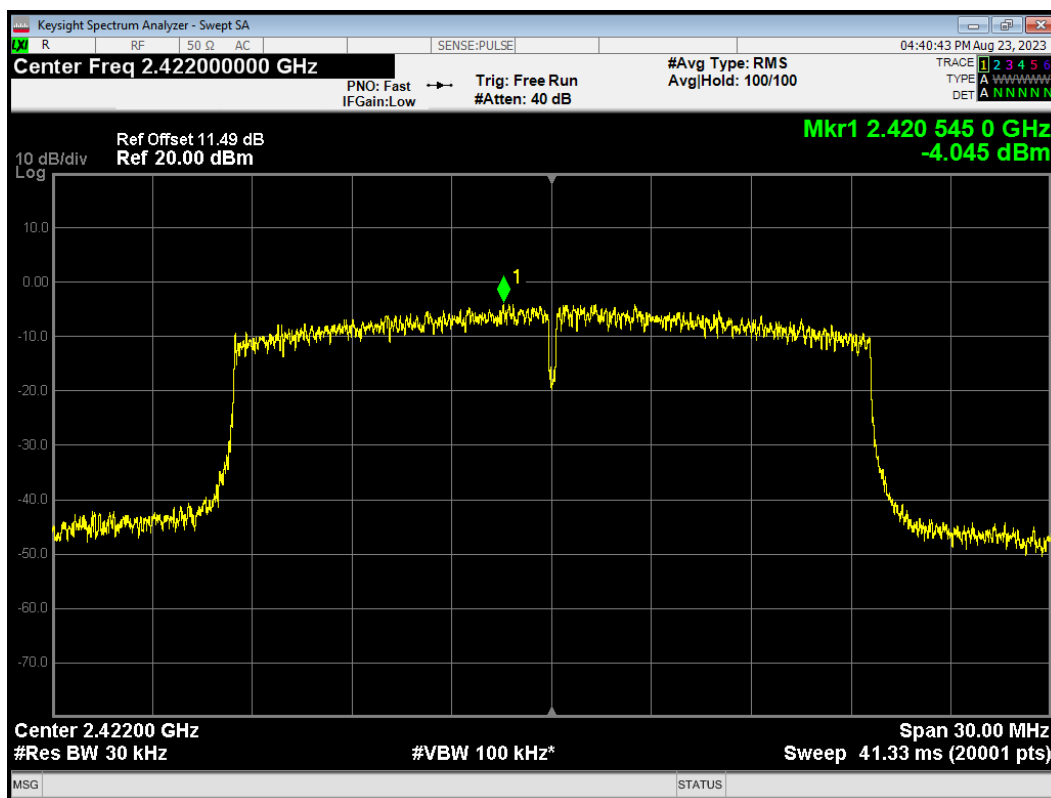
PSD 802.11ax(HE20) 2417MHz Ant2



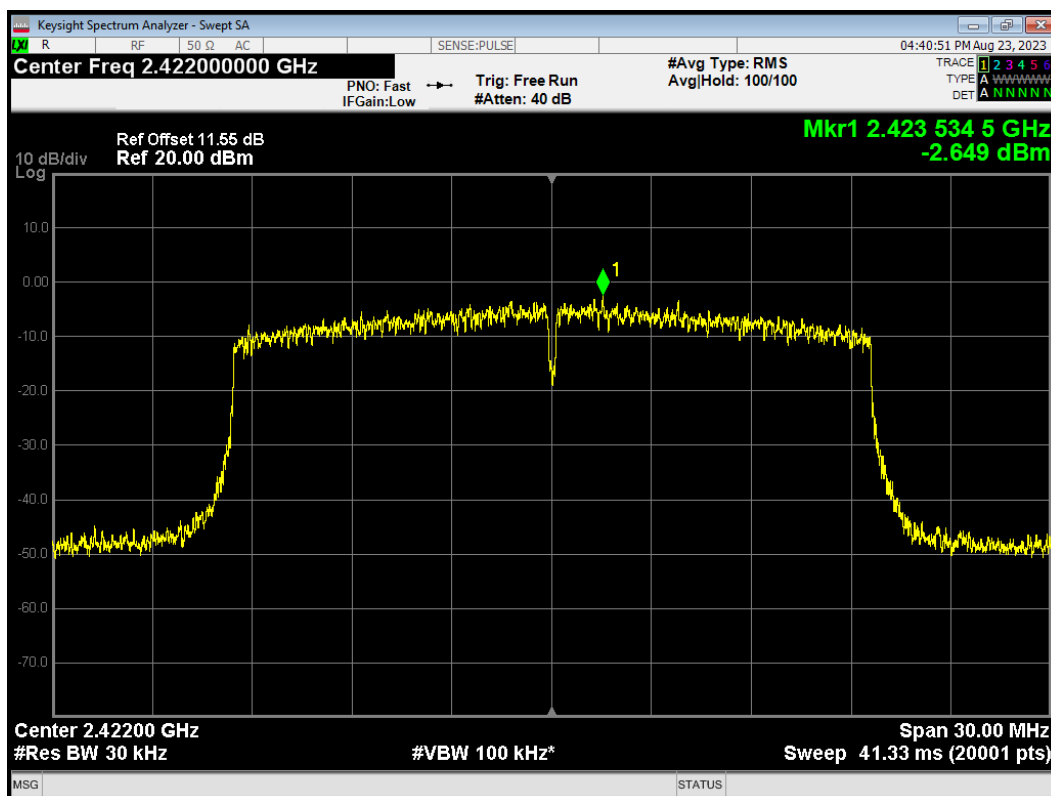
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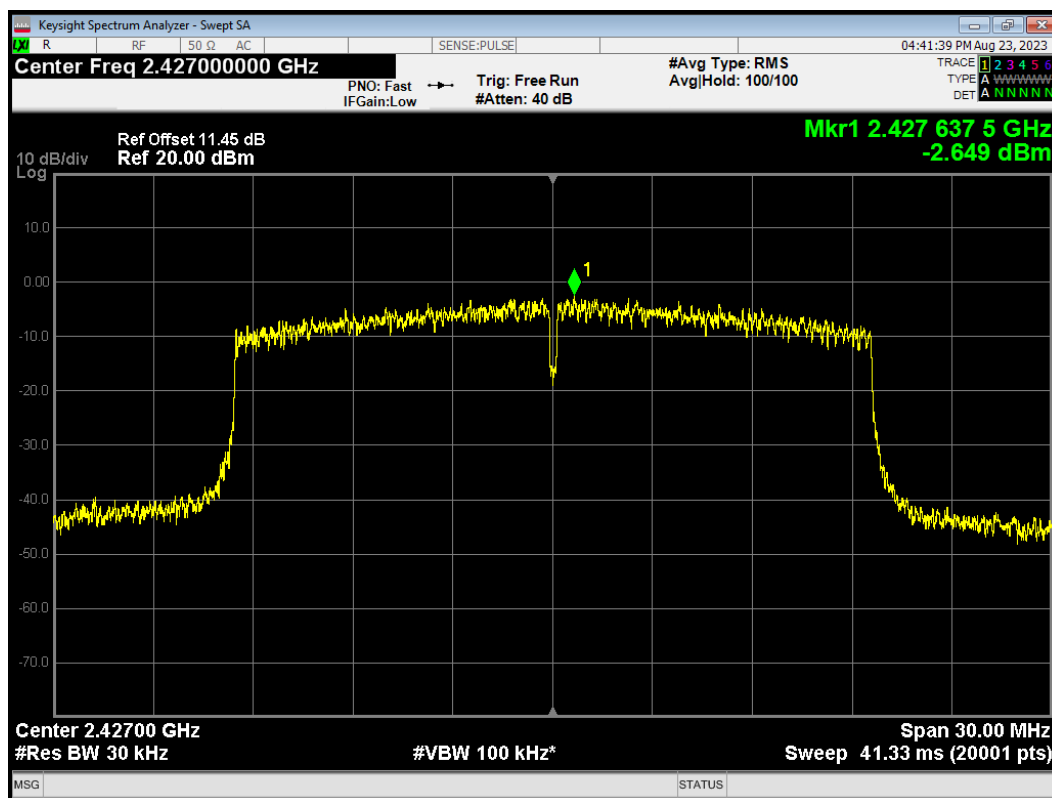
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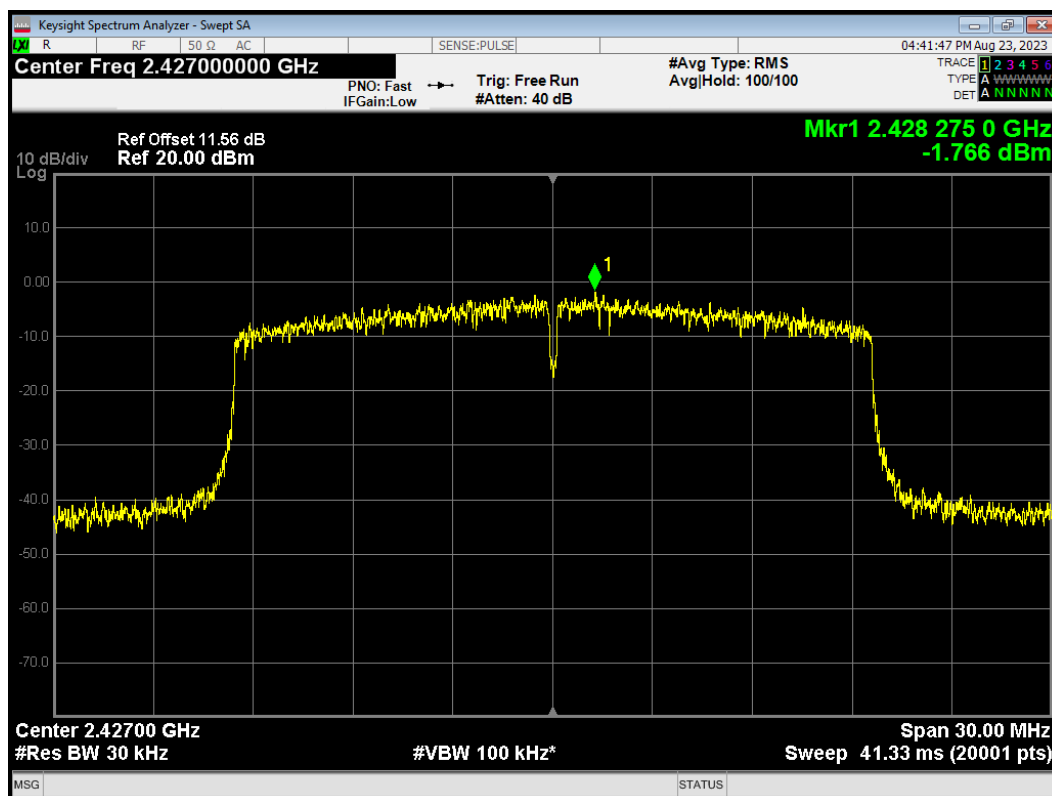
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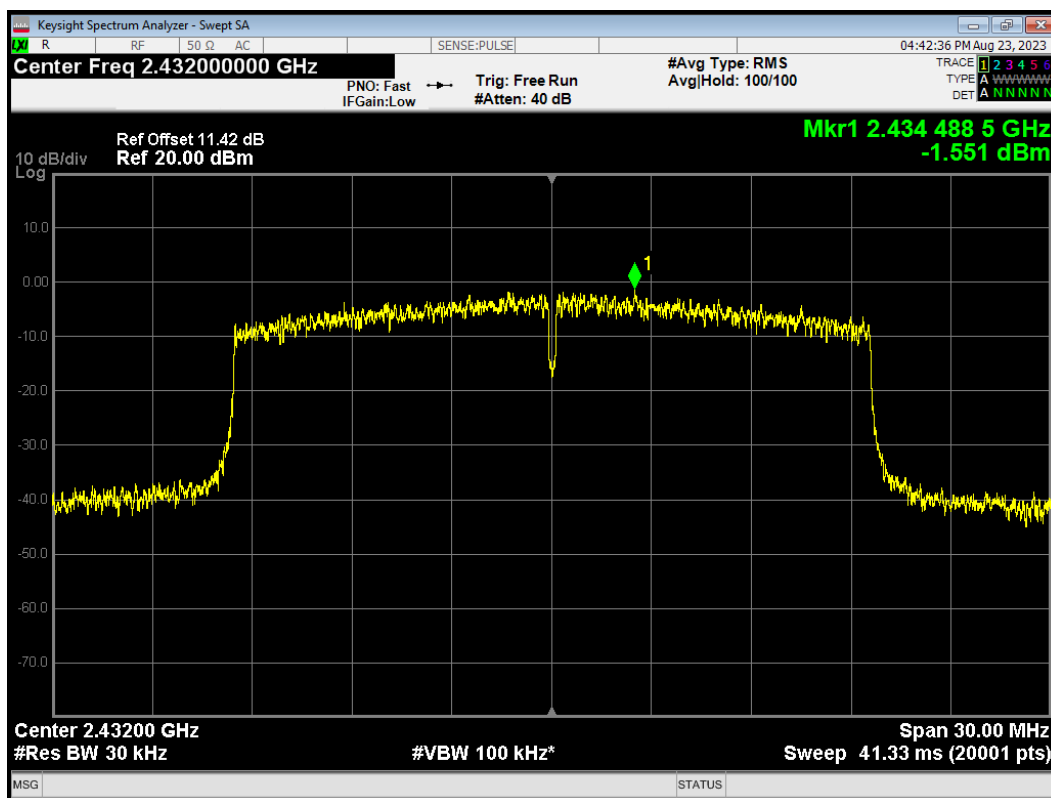
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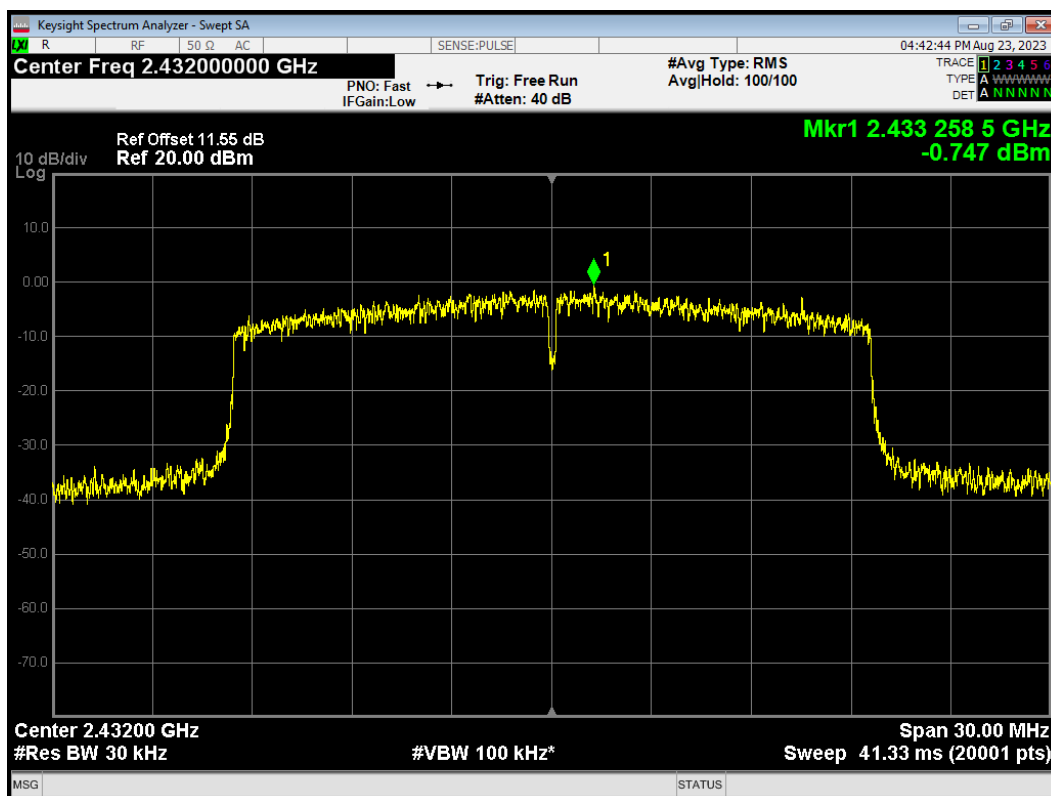
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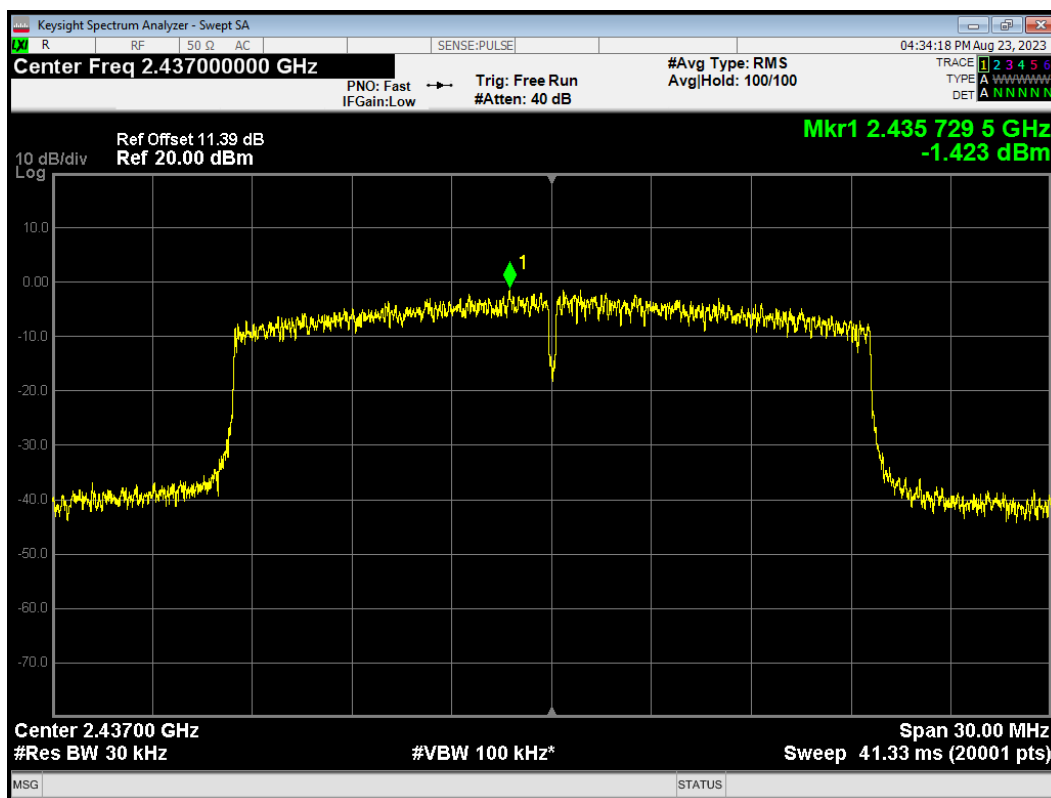
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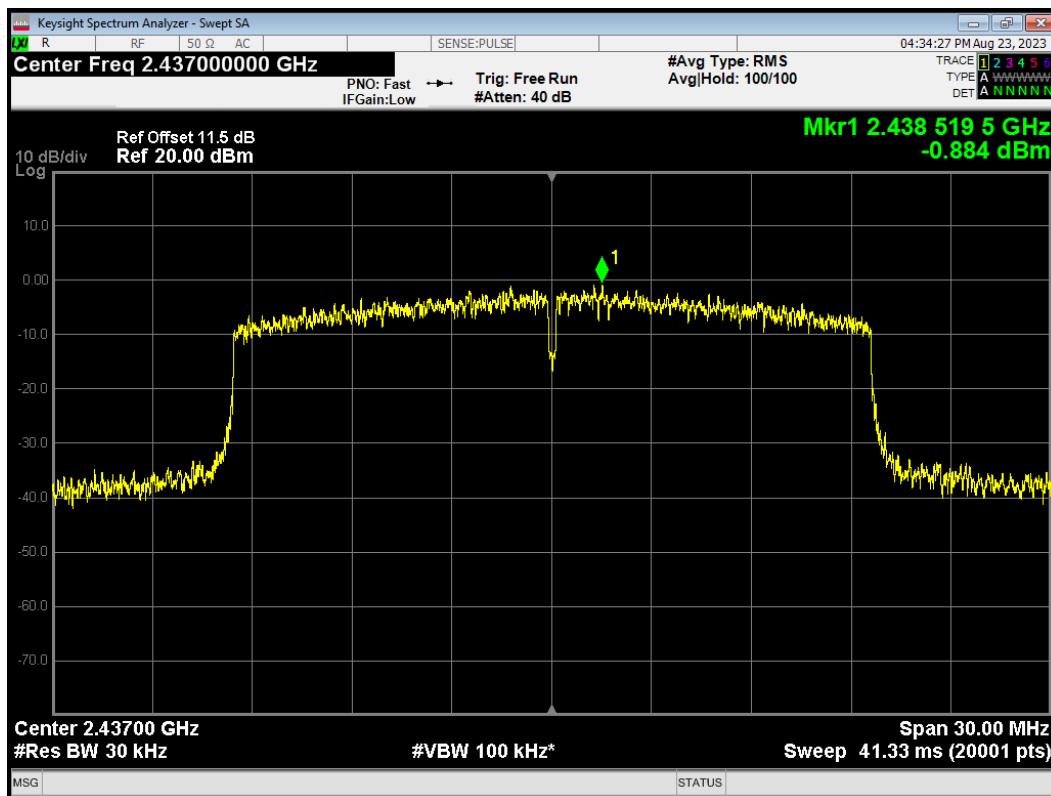
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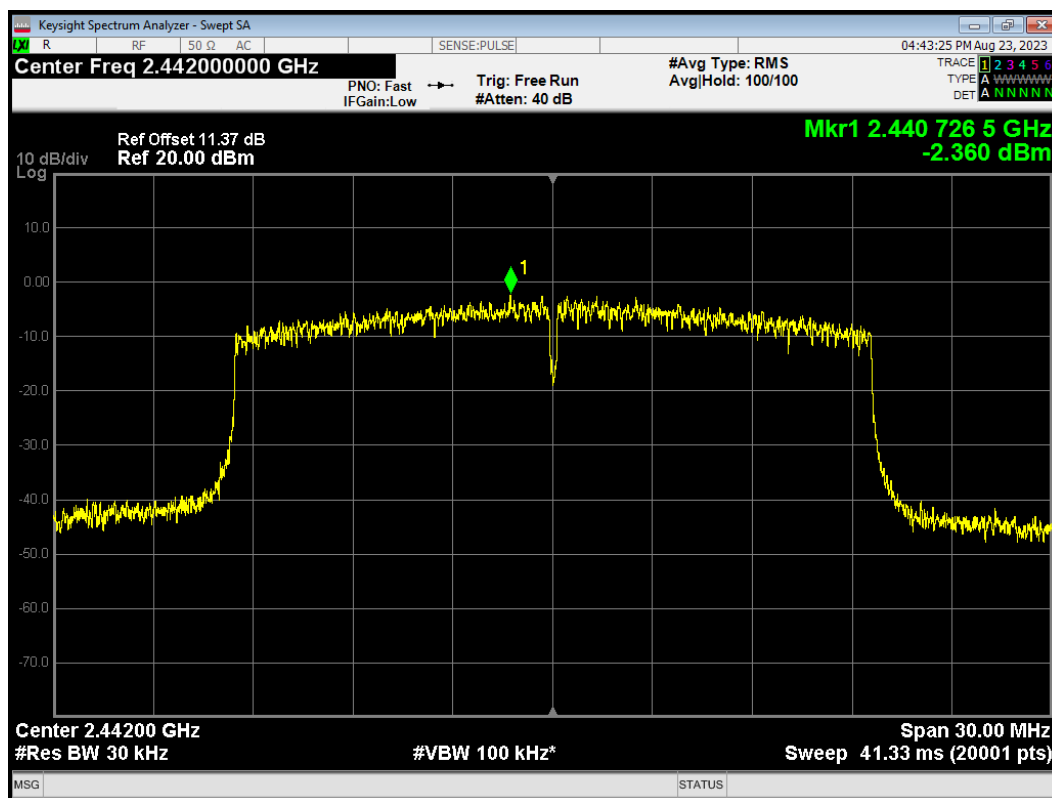
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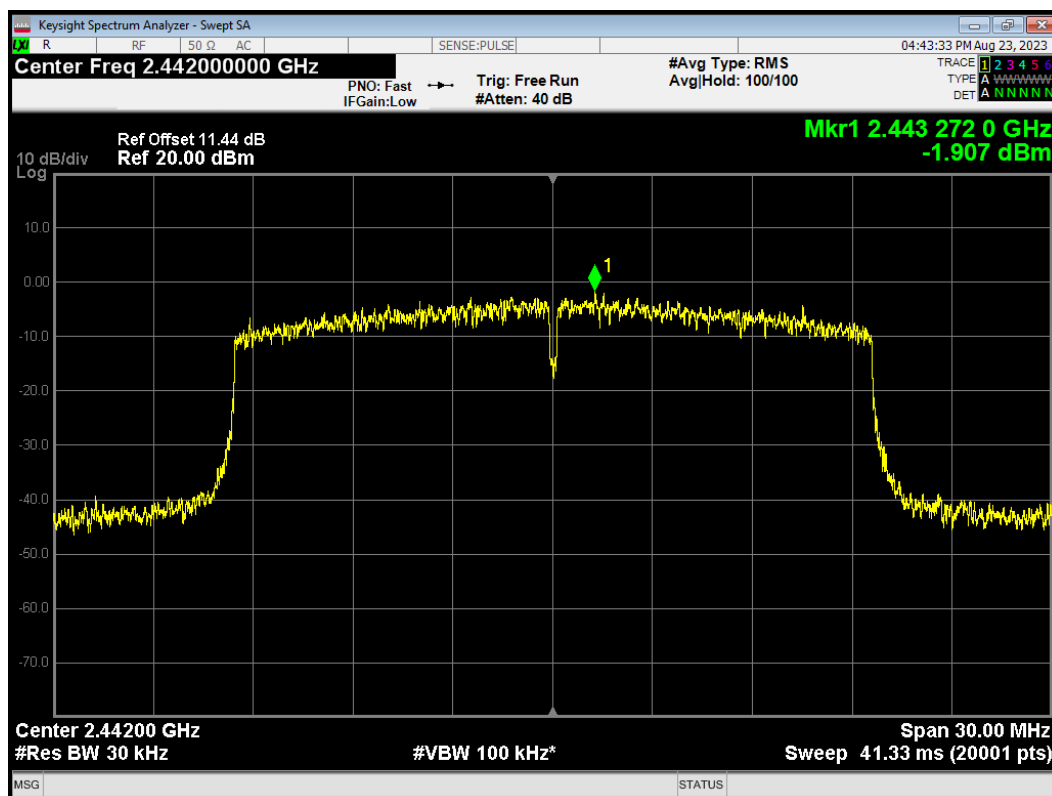
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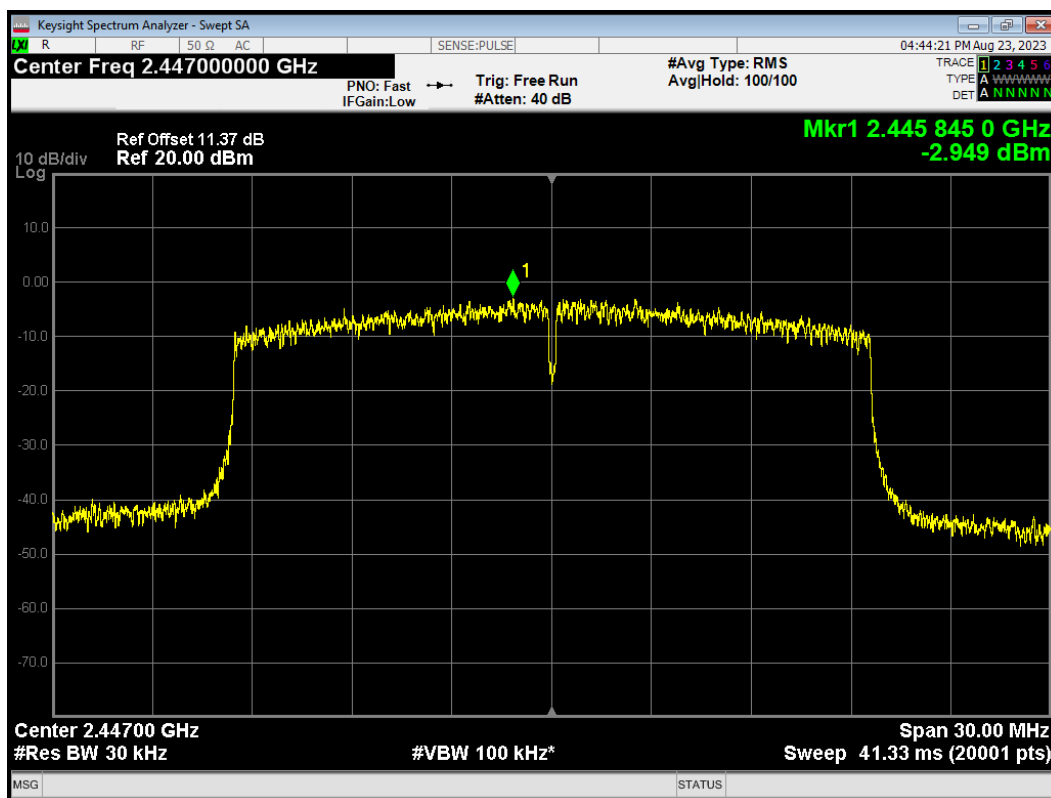
PSD 802.11ax(HE20) 2442MHz Ant2



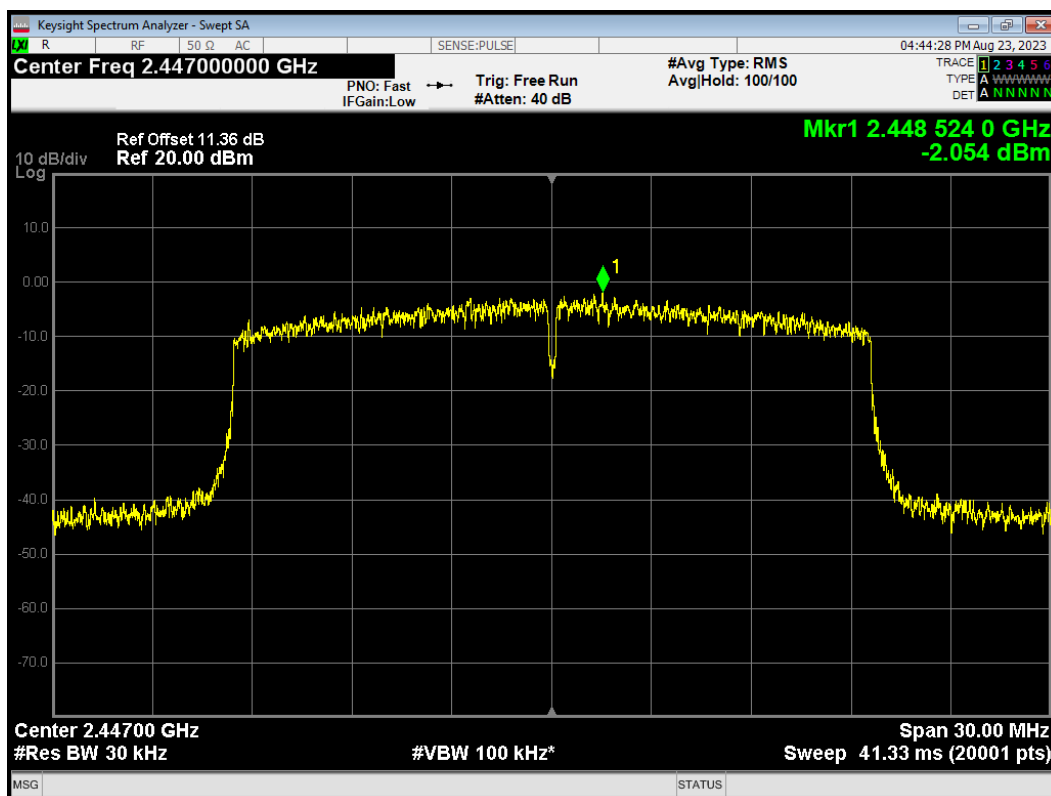
PSD 802.11ax(HE20) 2442MHz Ant3



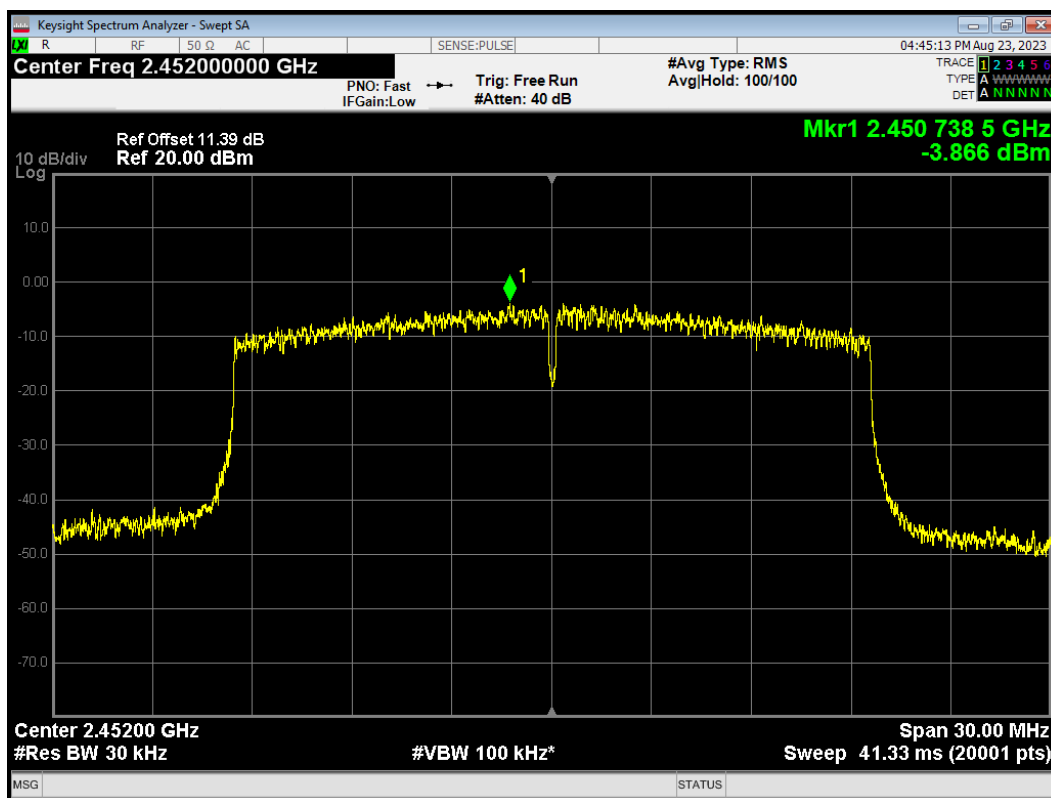
PSD 802.11ax(HE20) 2447MHz Ant2



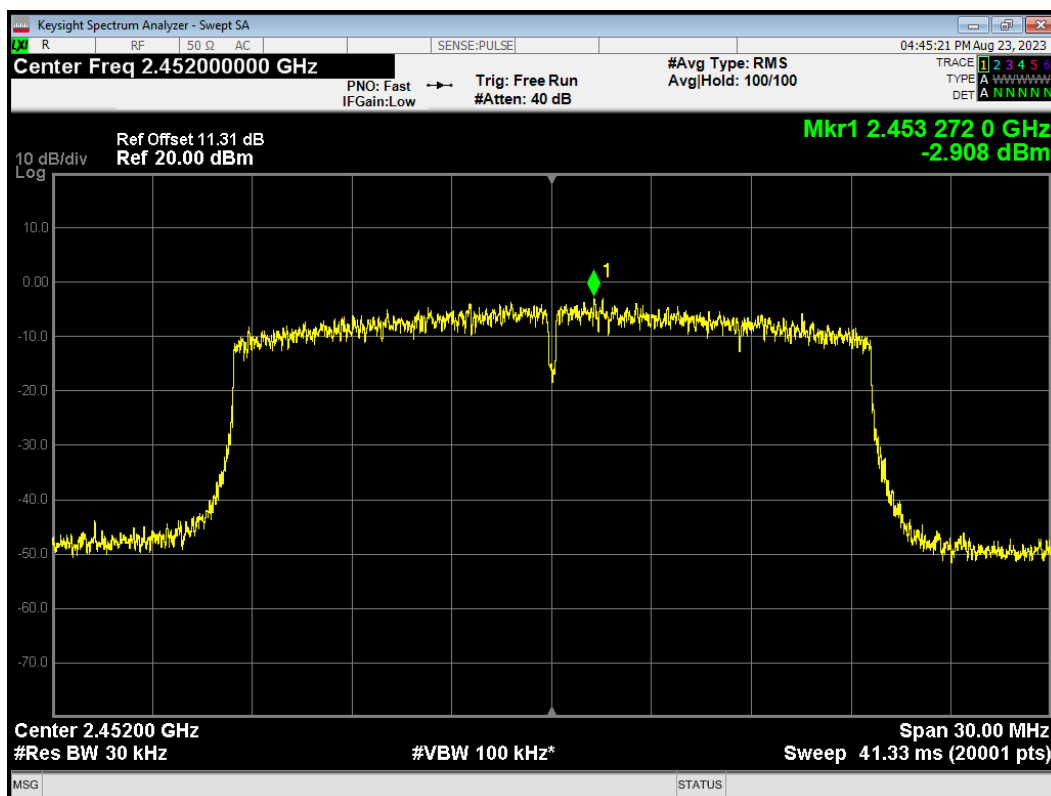
PSD 802.11ax(HE20) 2447MHz Ant3



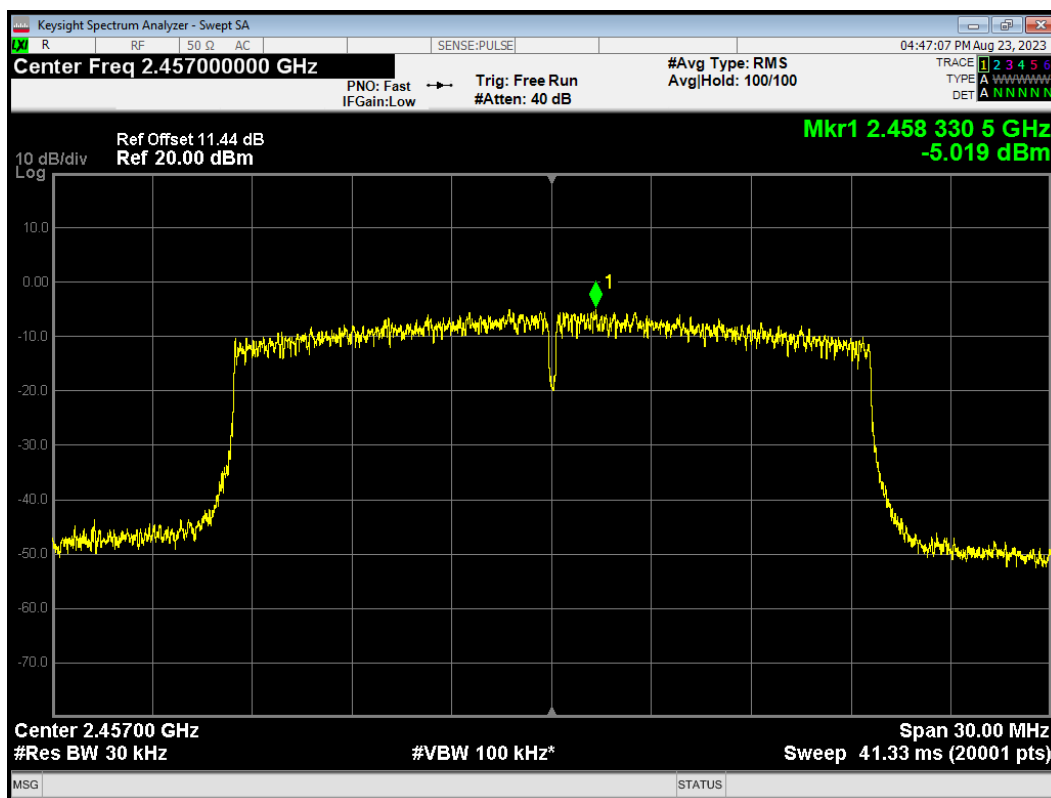
PSD 802.11ax(HE20) 2452MHz Ant2



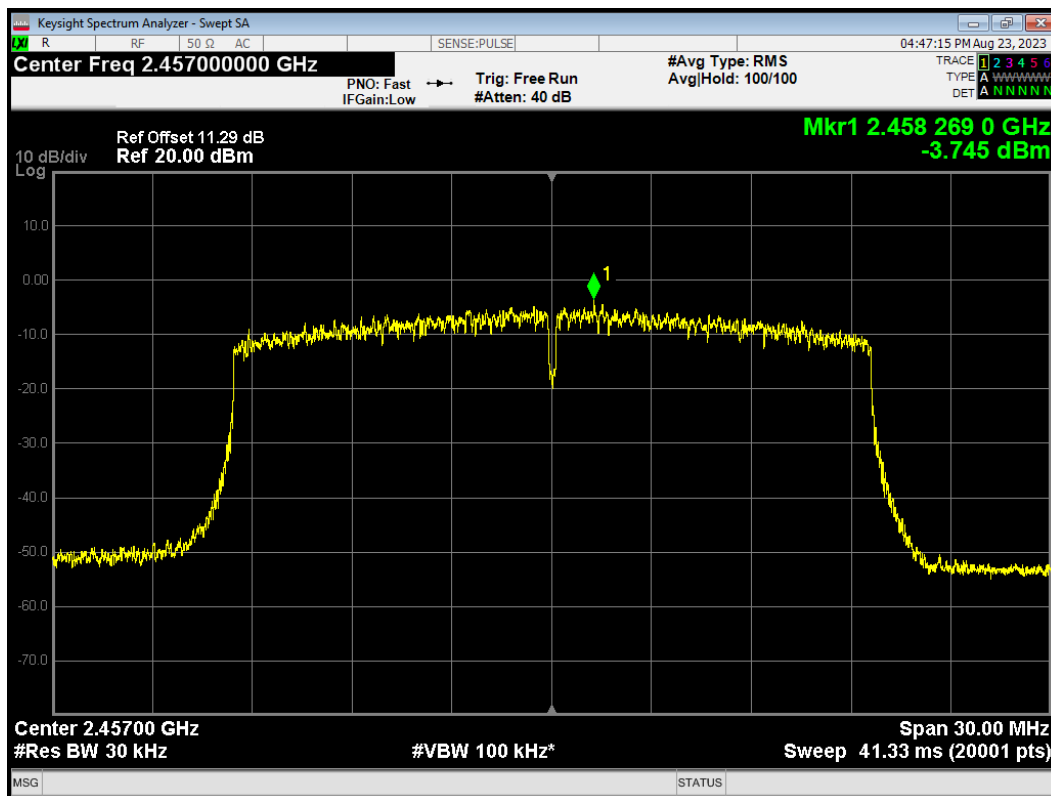
PSD 802.11ax(HE20) 2452MHz Ant3



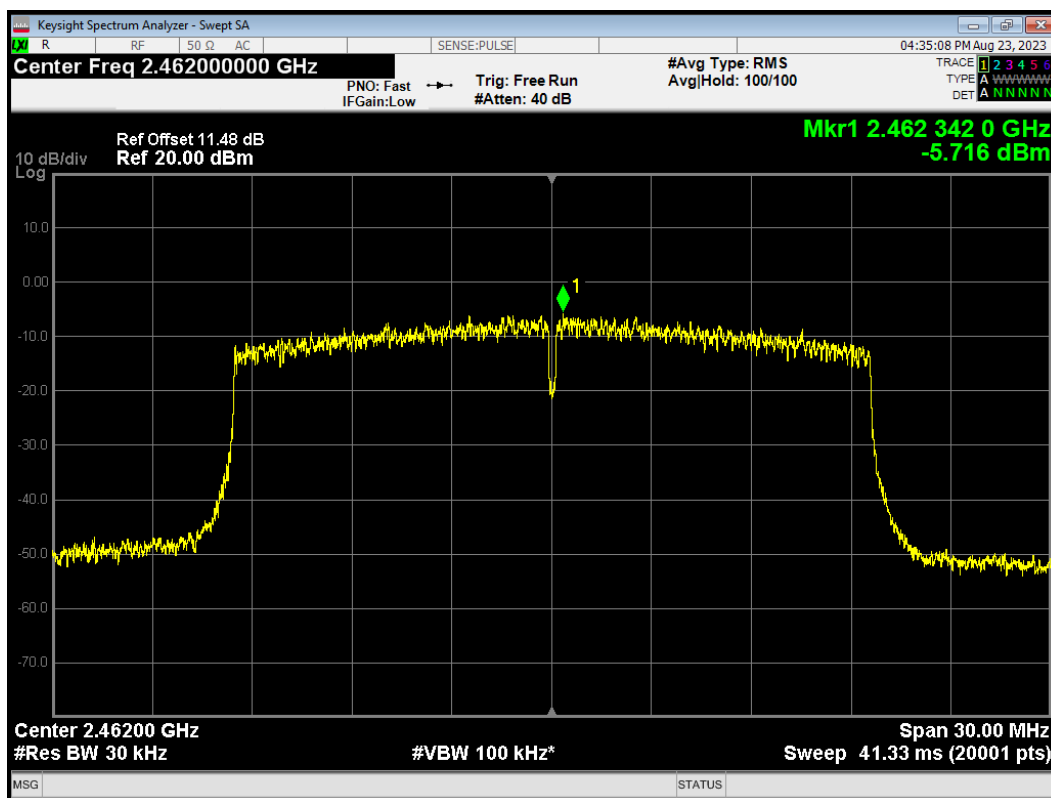
PSD 802.11ax(HE20) 2457MHz Ant2



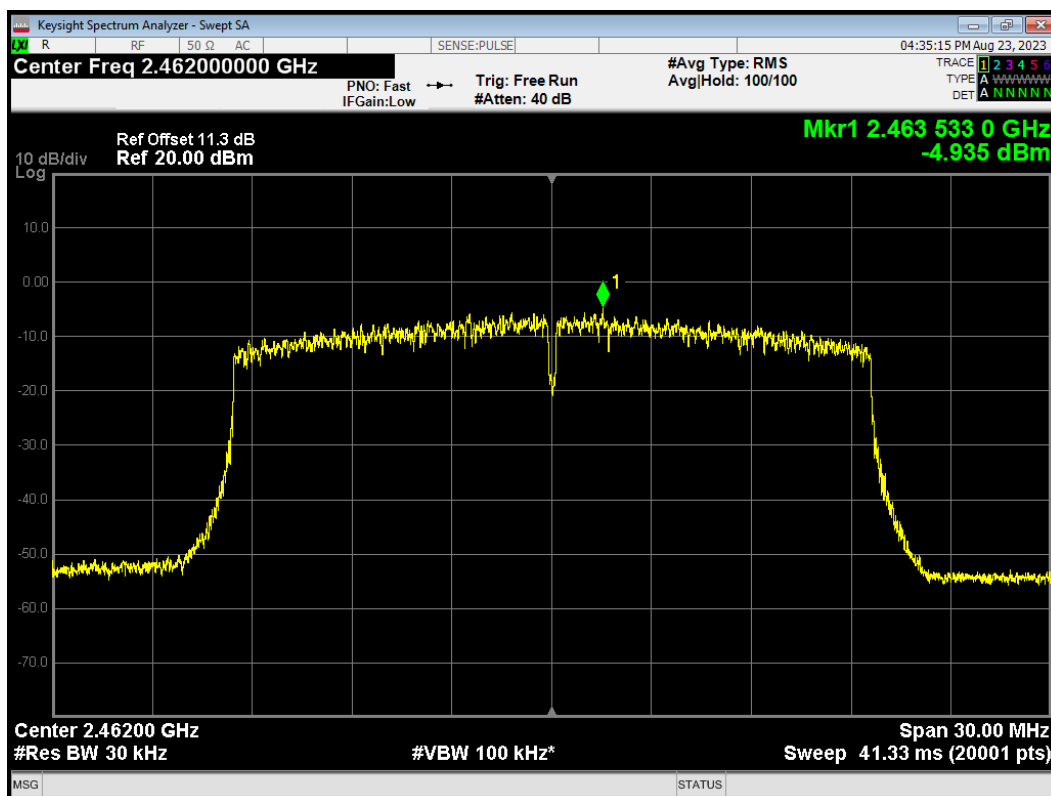
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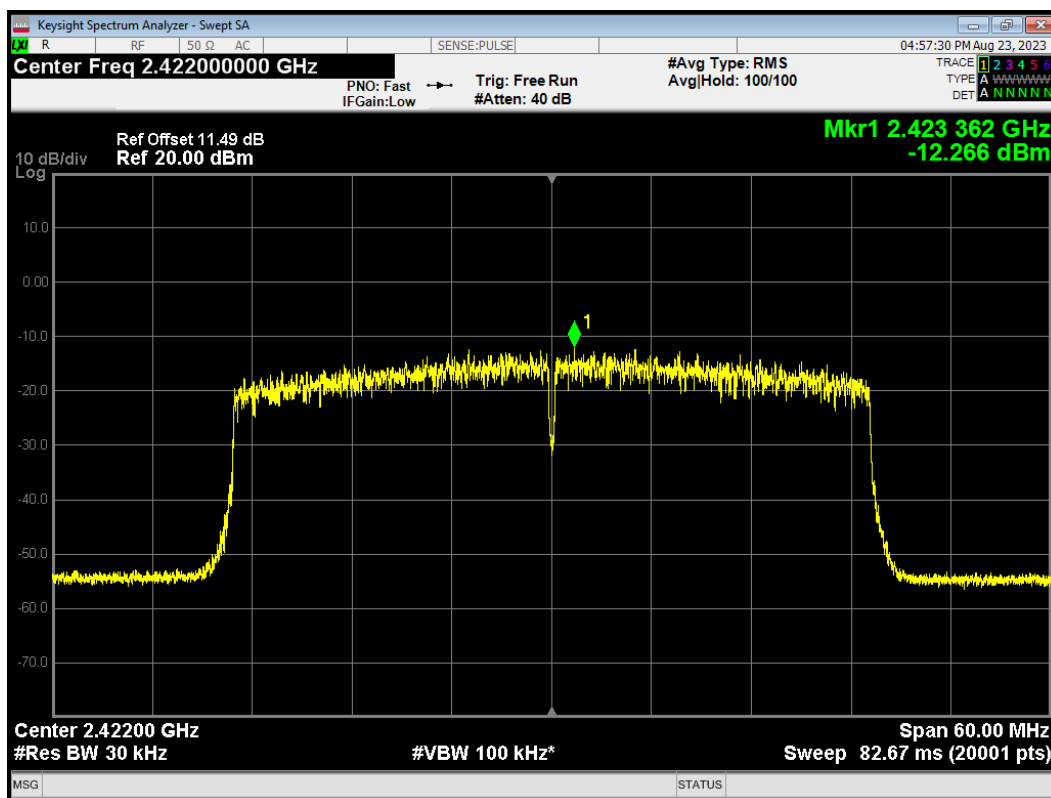
PSD 802.11ax(HE20) 2462MHz Ant2



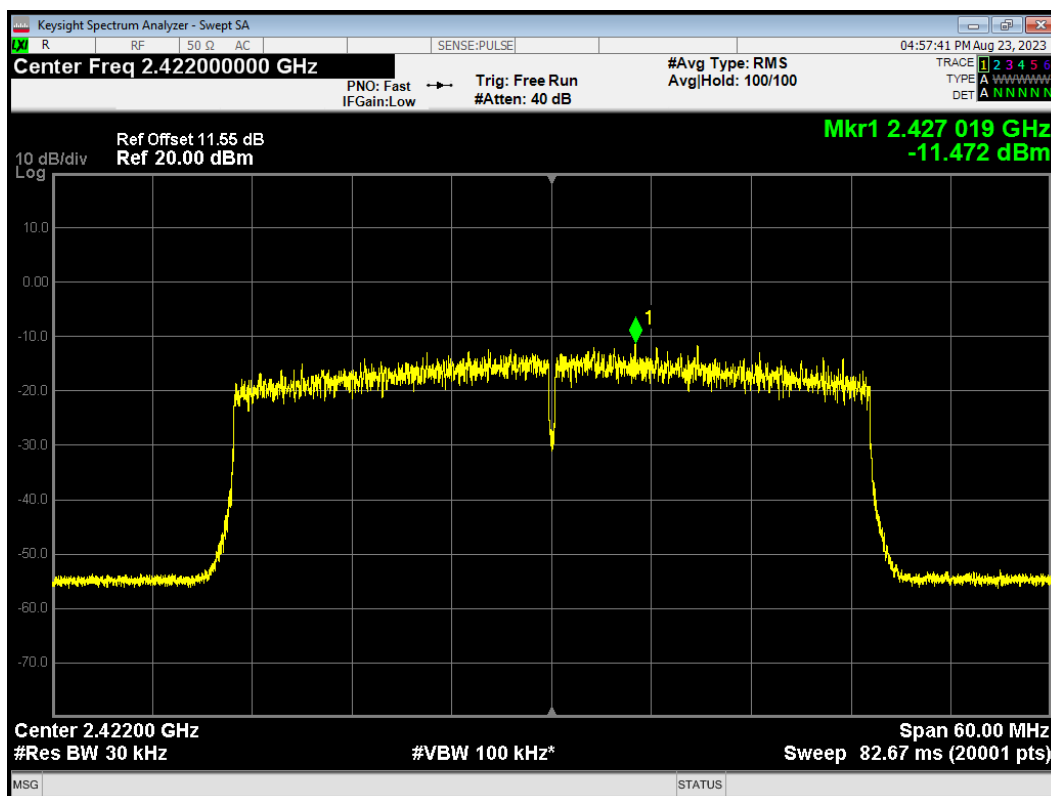
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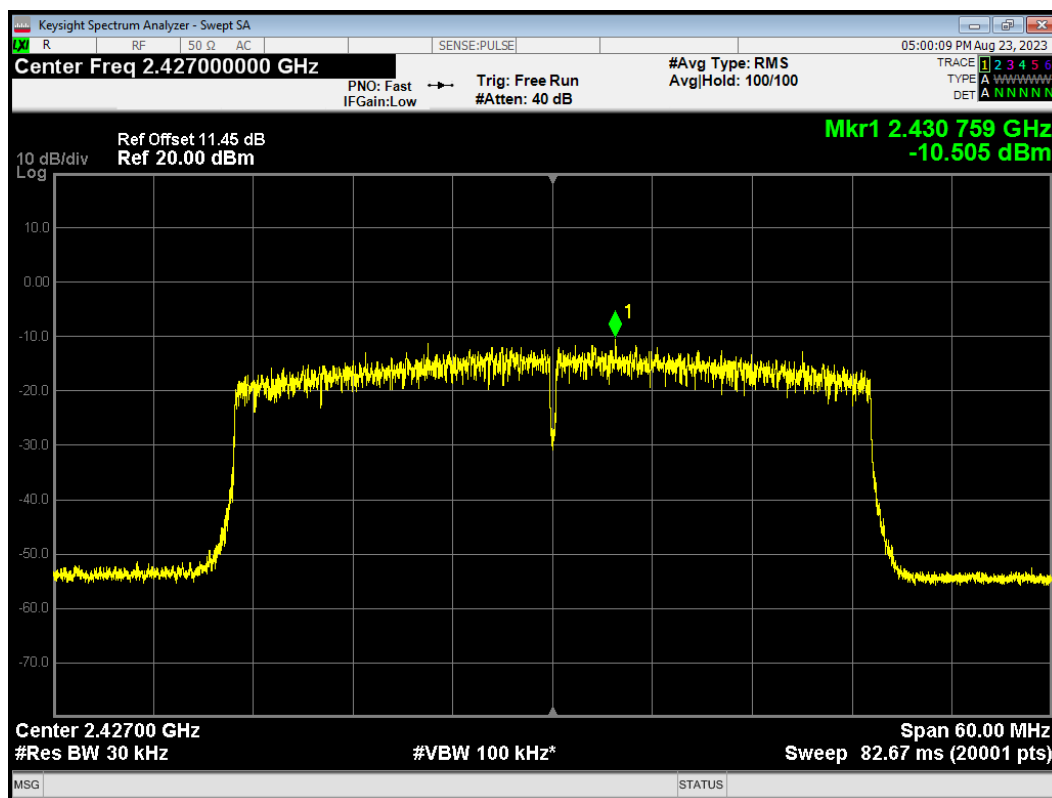
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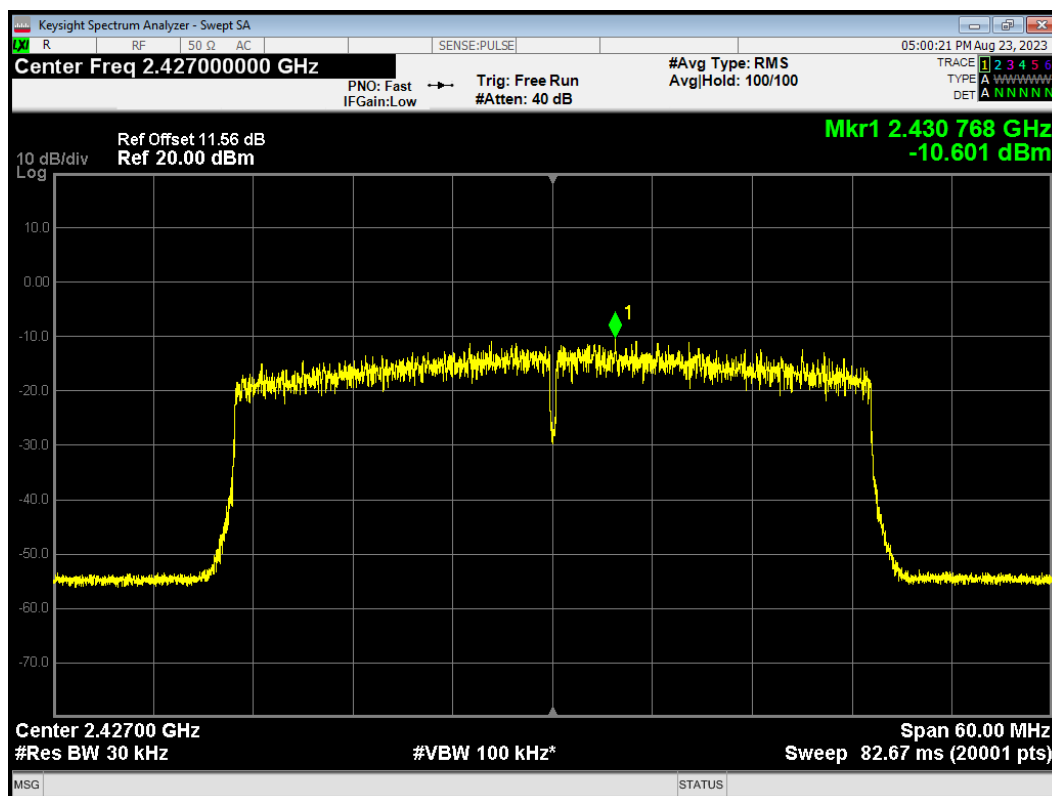
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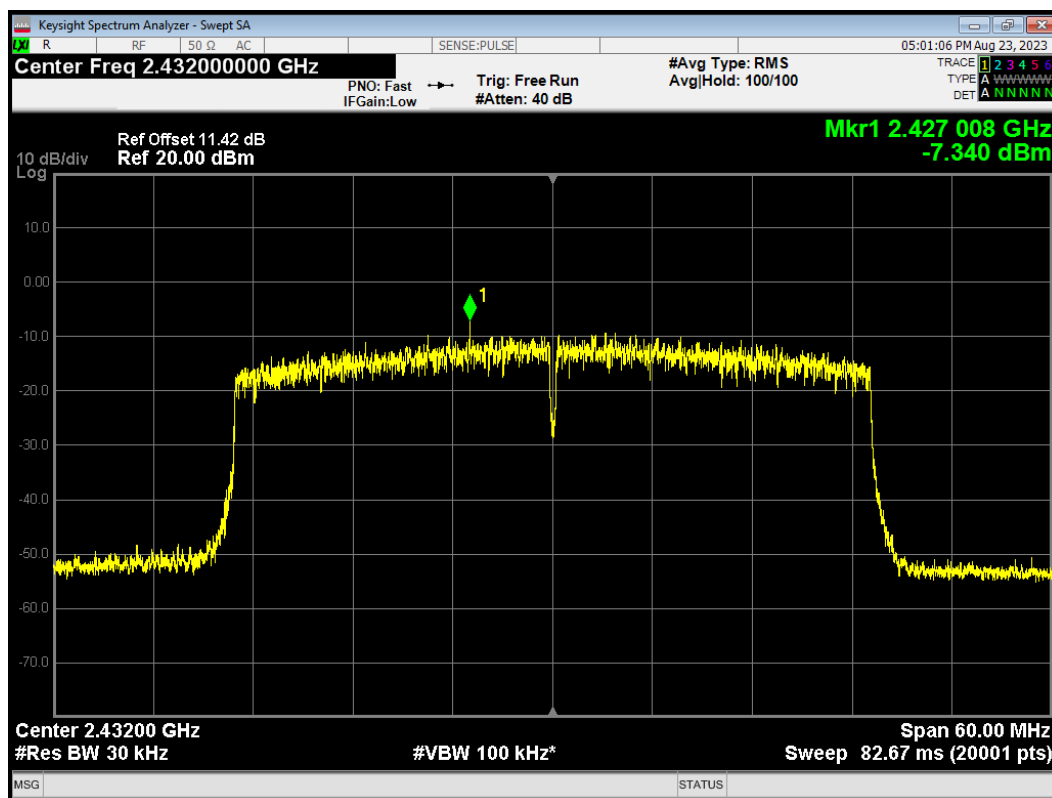
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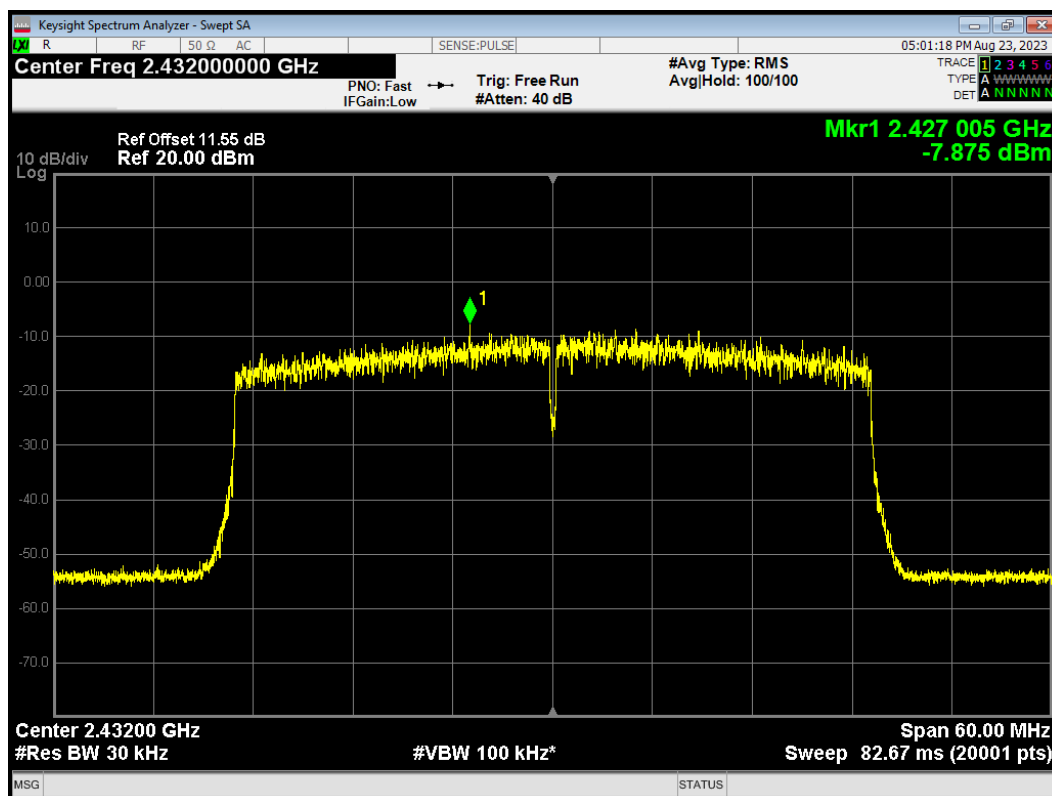
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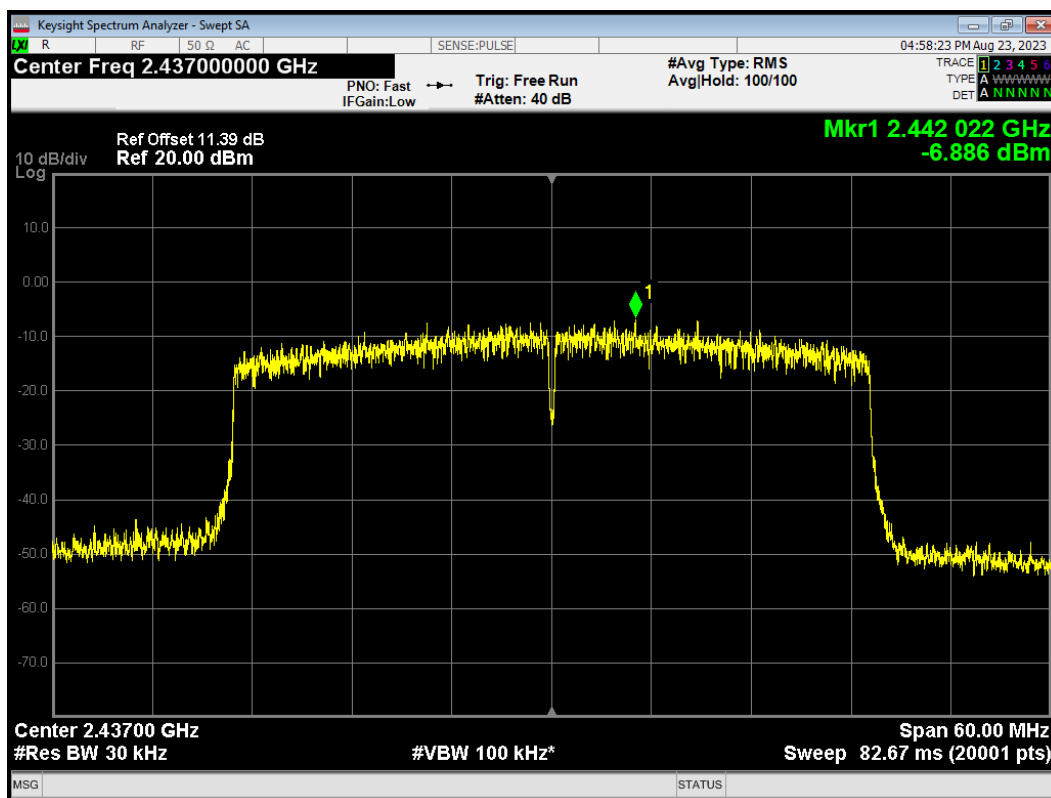
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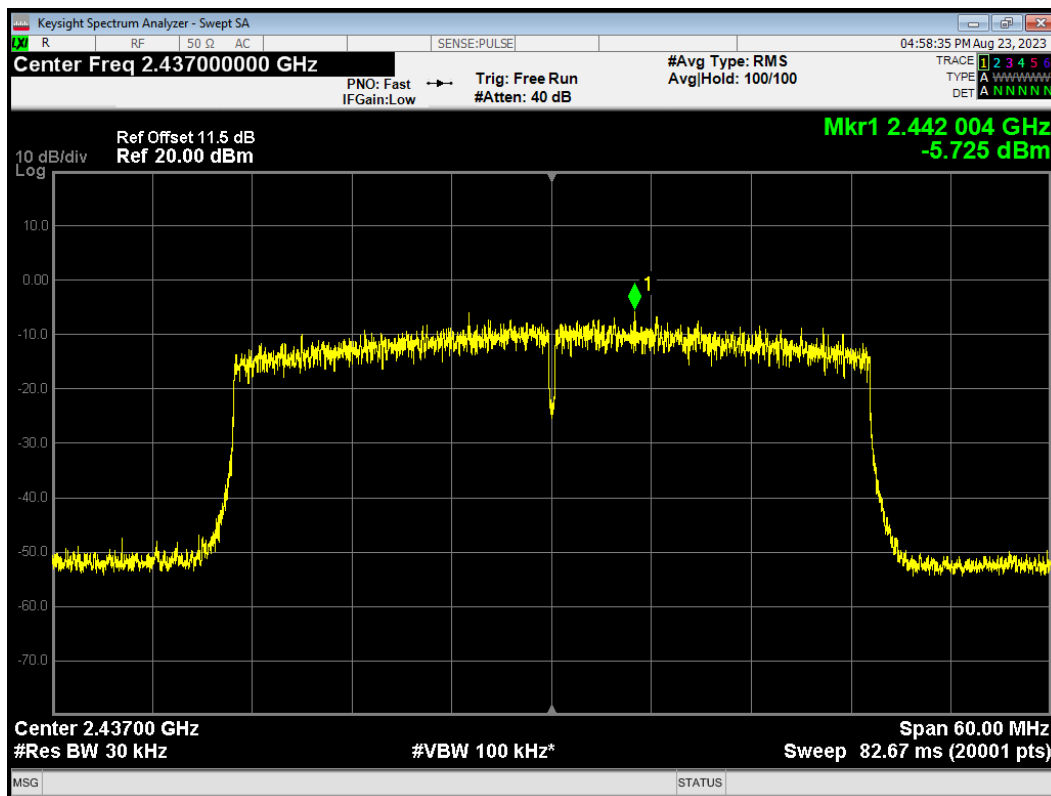
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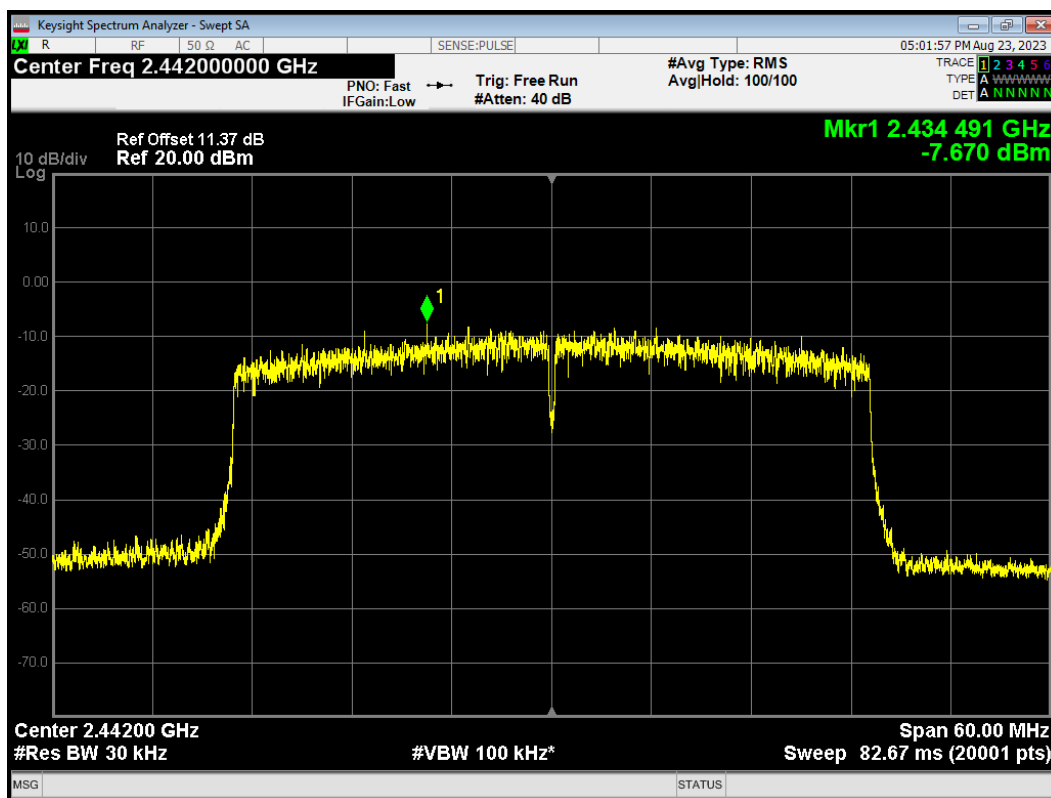
PSD 802.11ax(HE40) 2437MHz Ant2



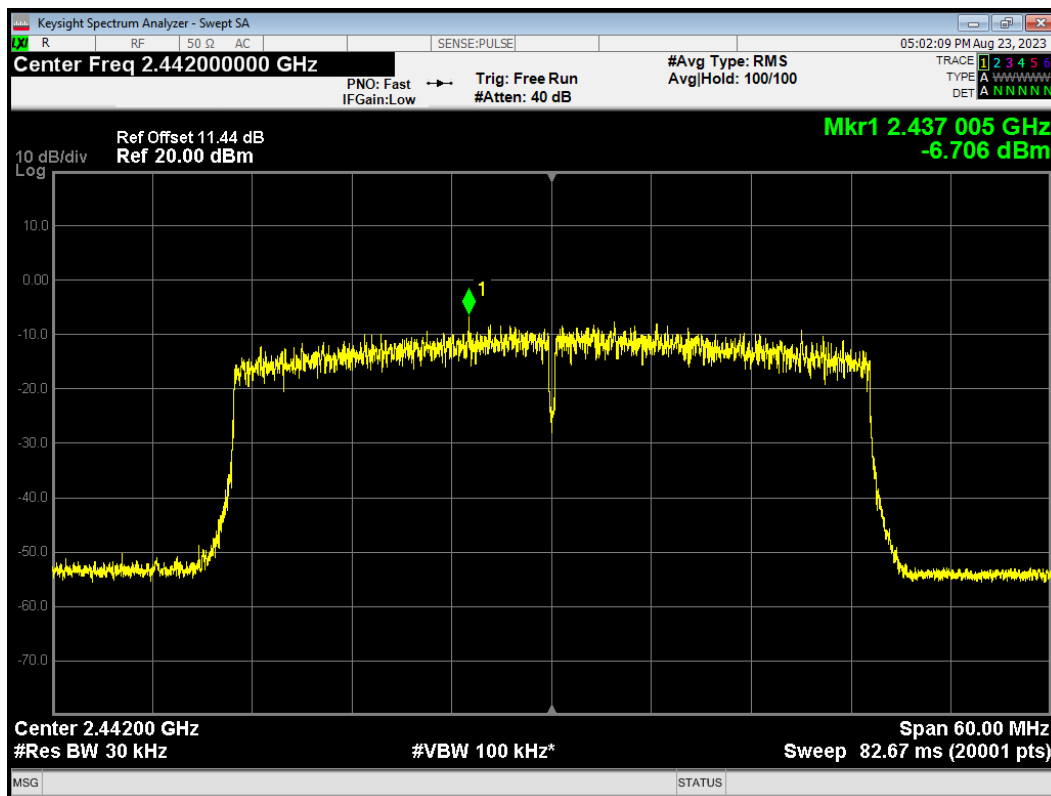
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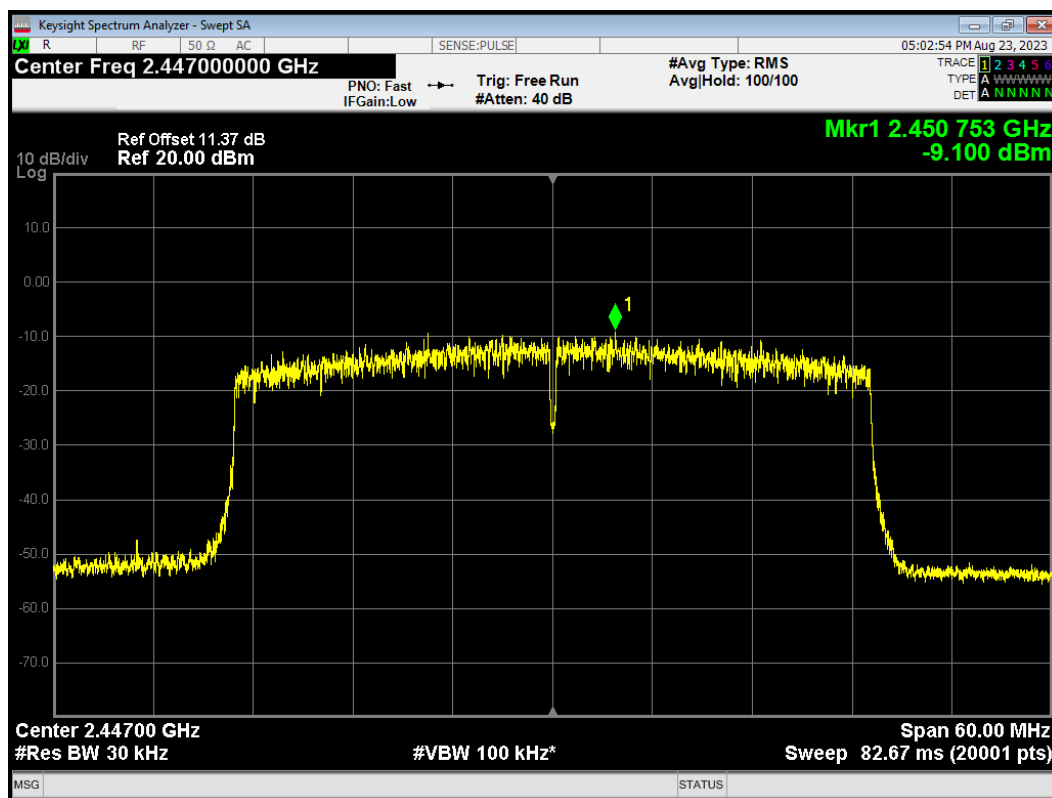
PSD 802.11ax(HE40) 2442MHz Ant2



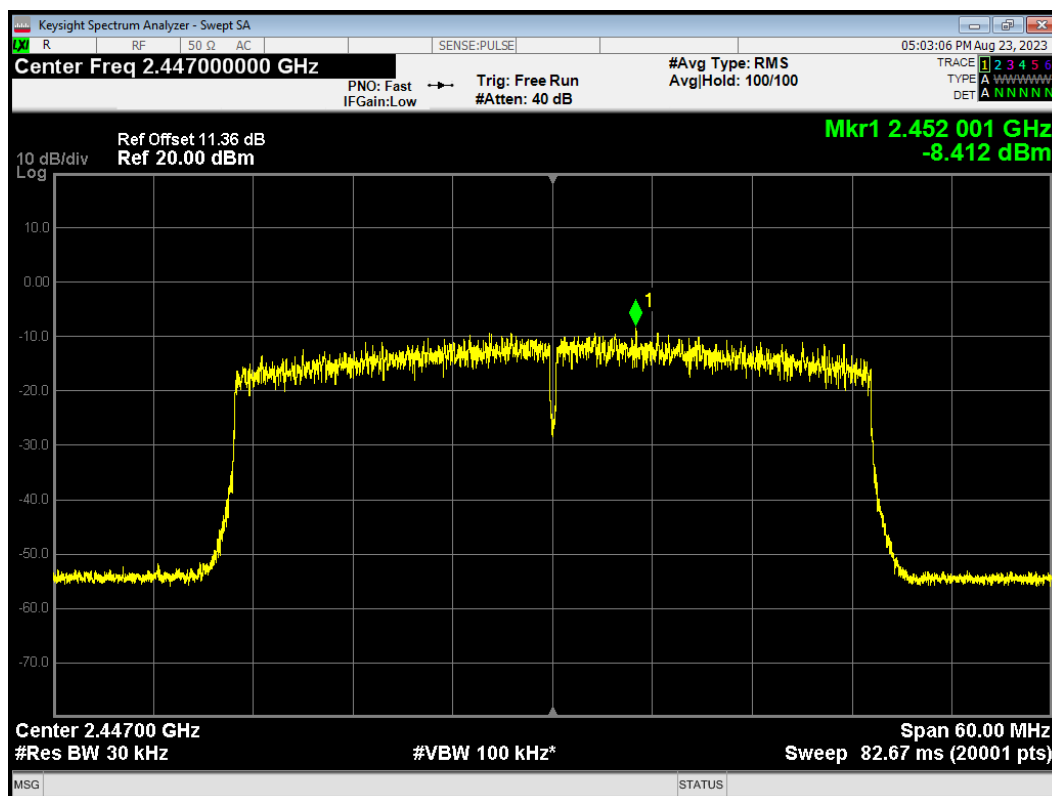
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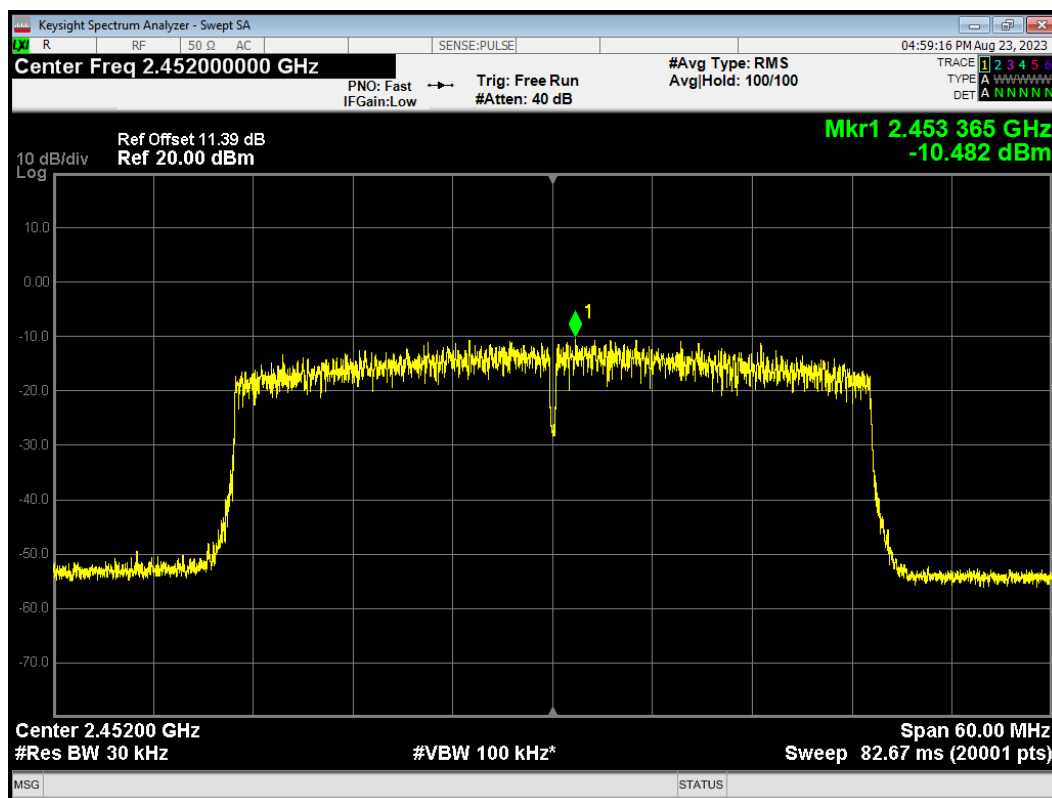
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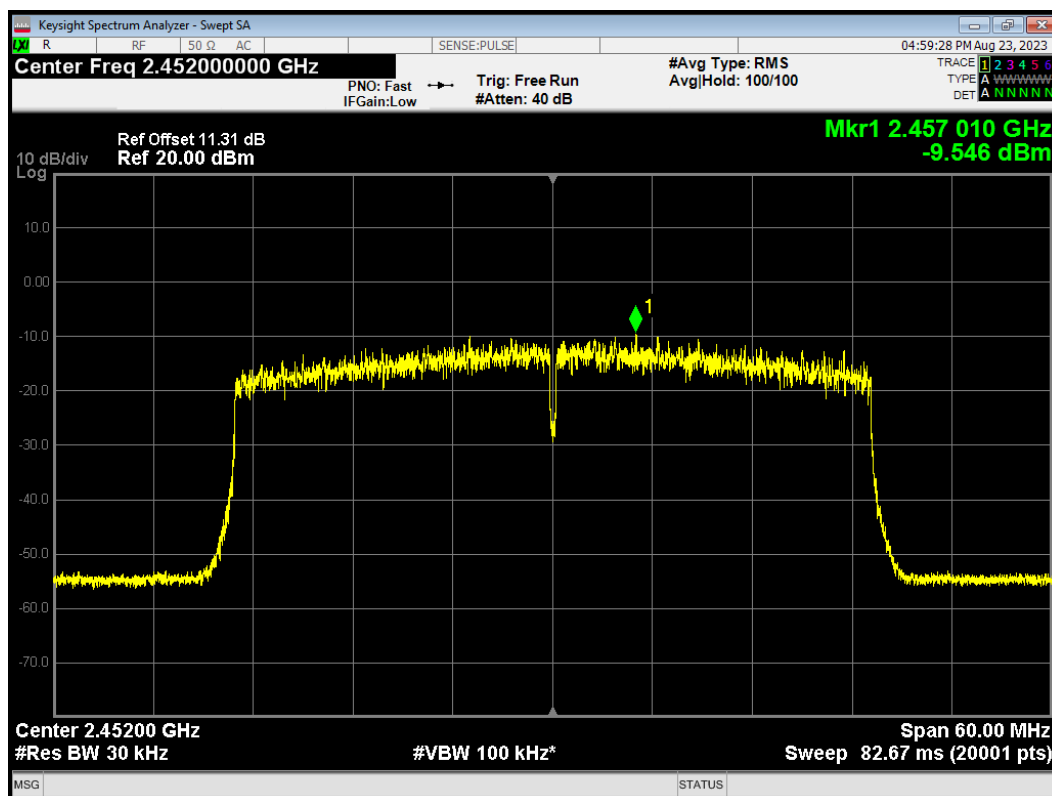
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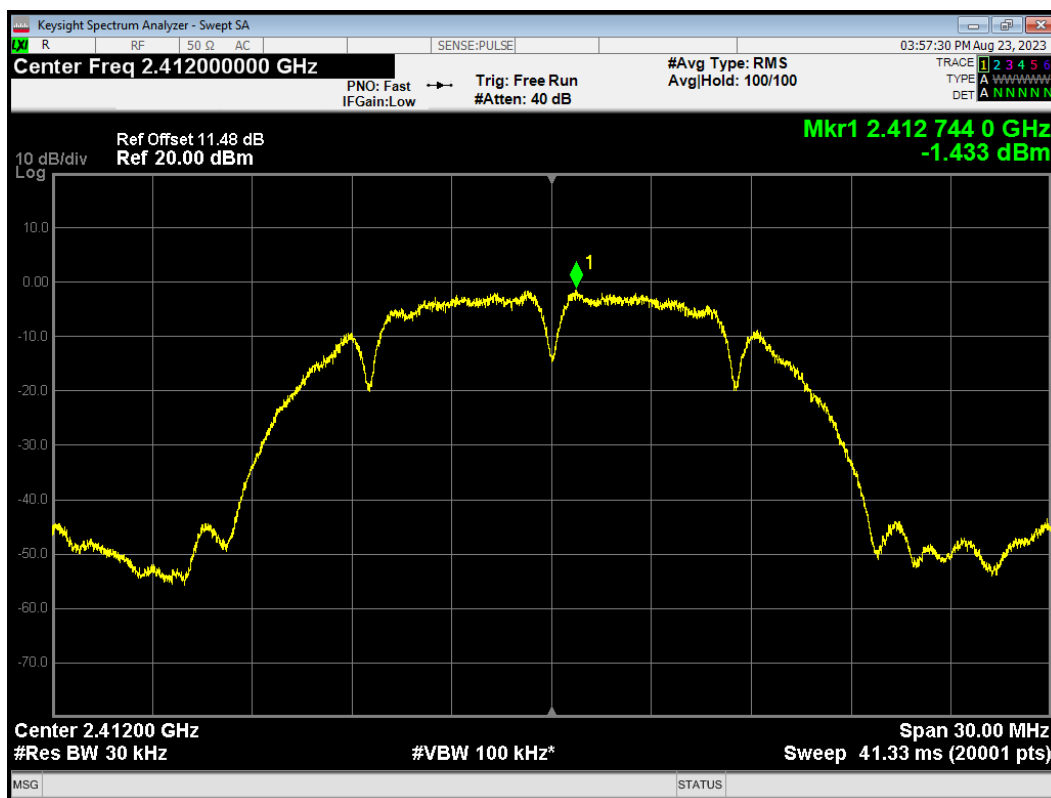
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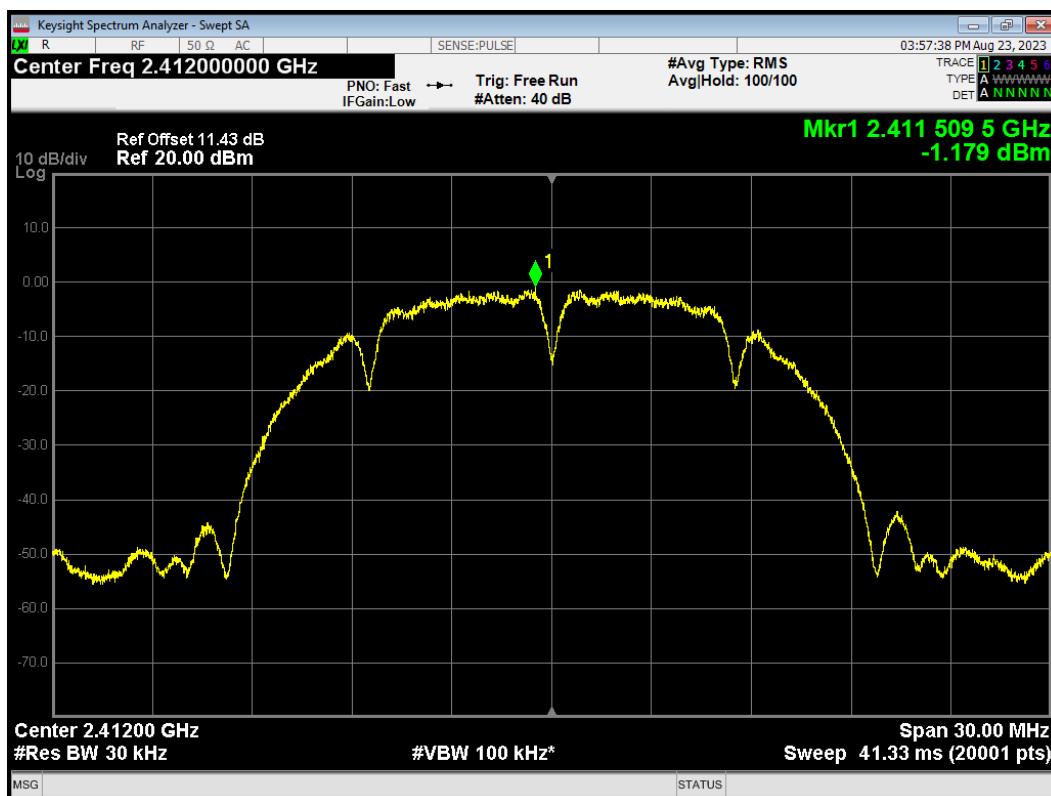
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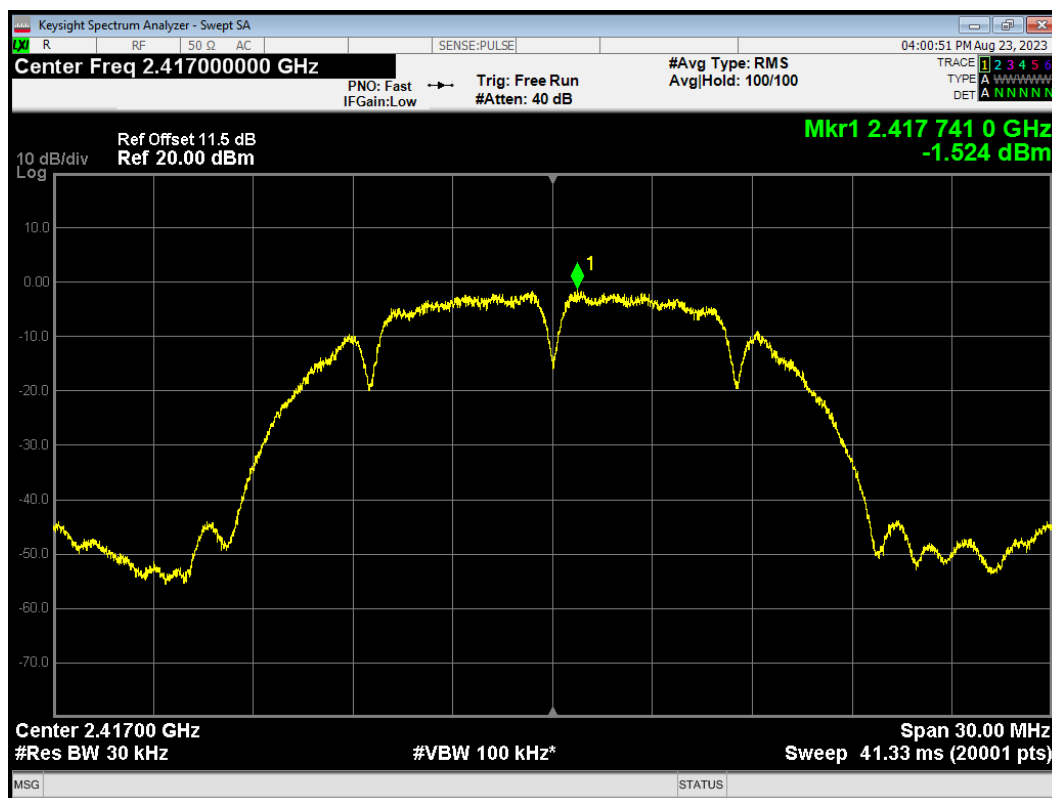
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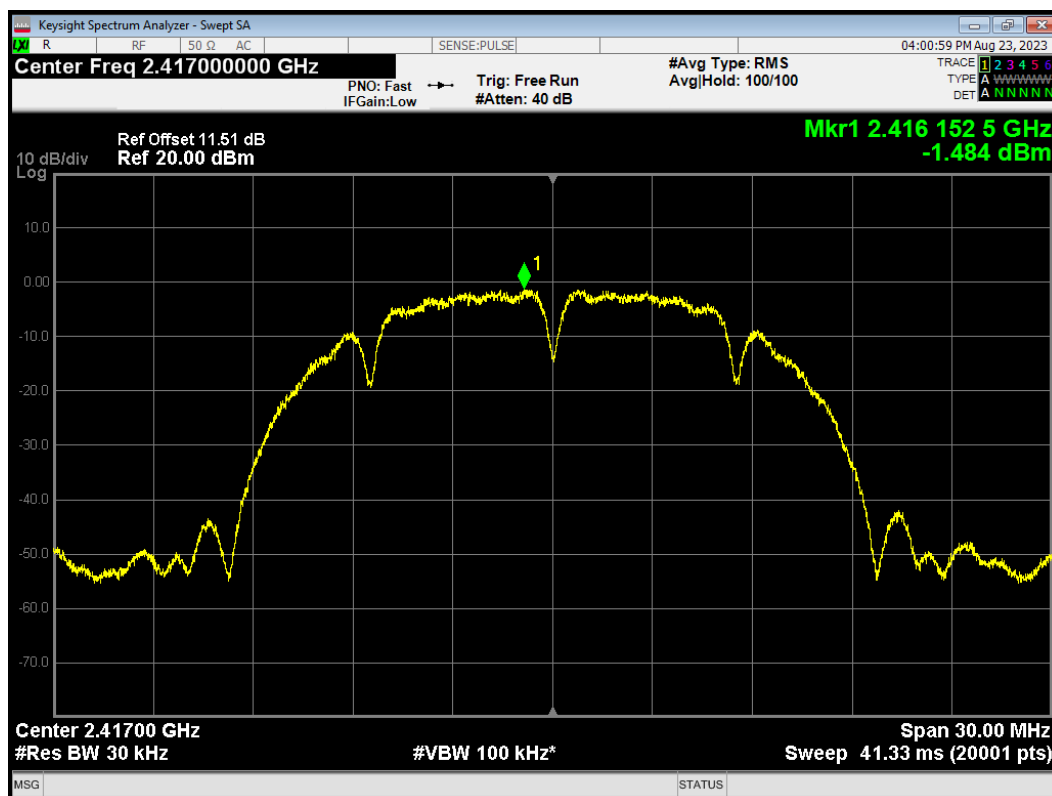
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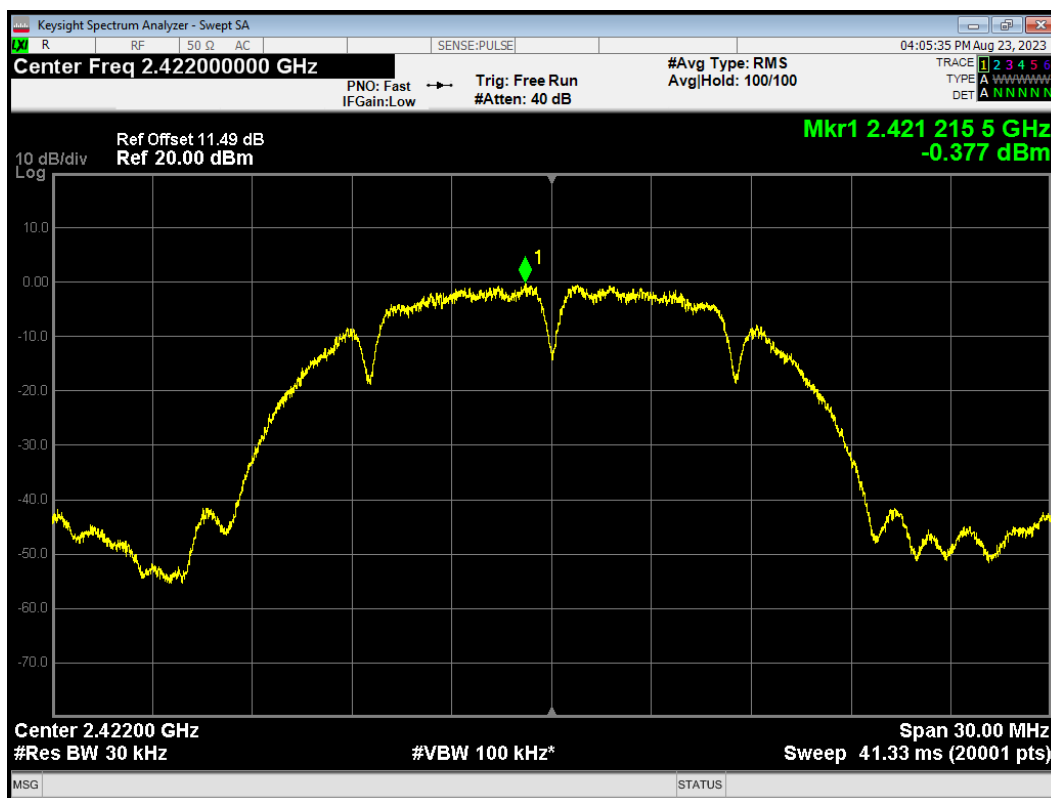
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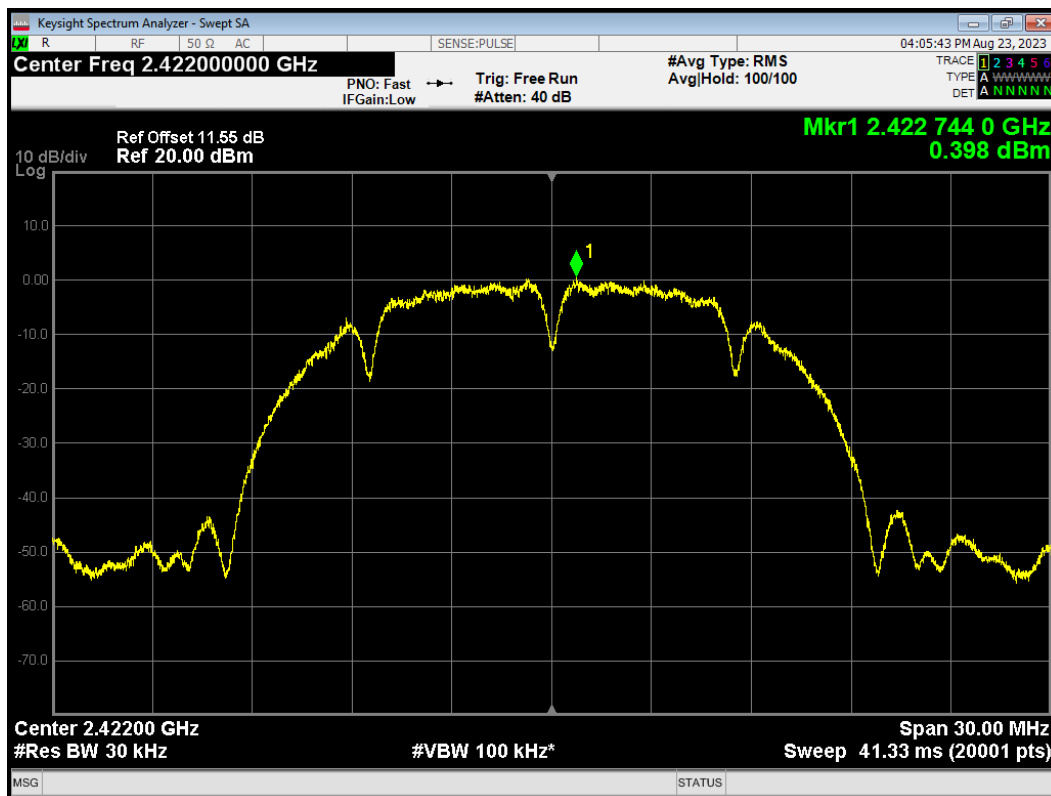
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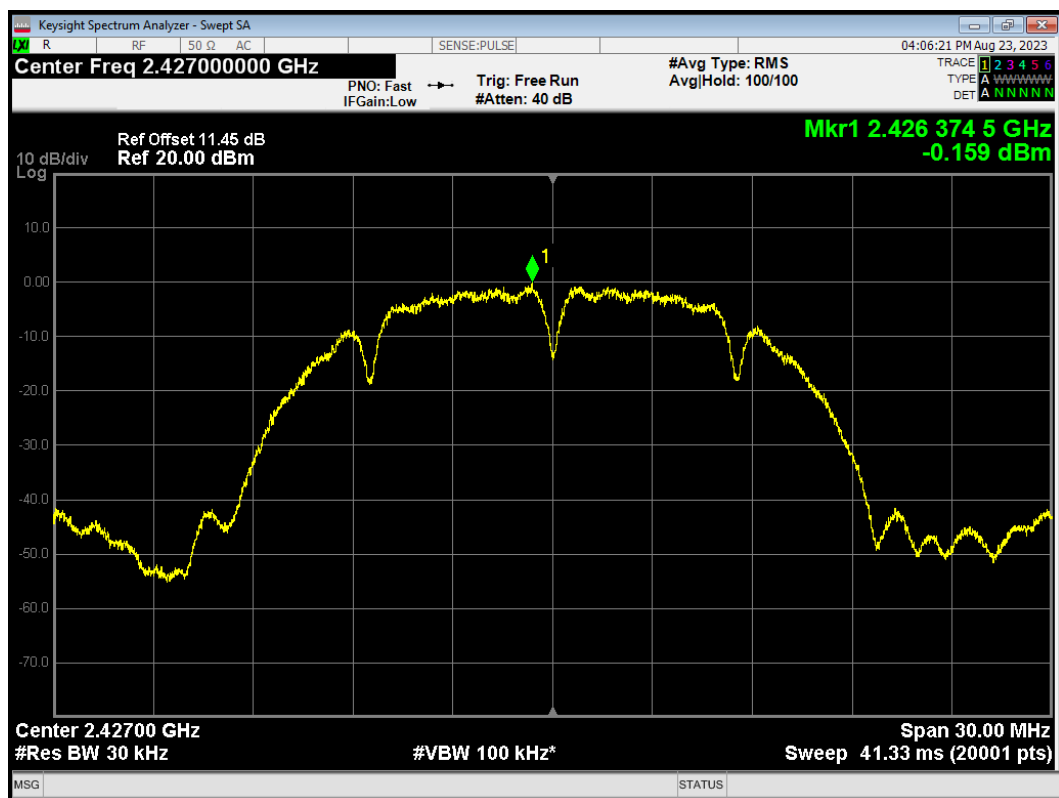
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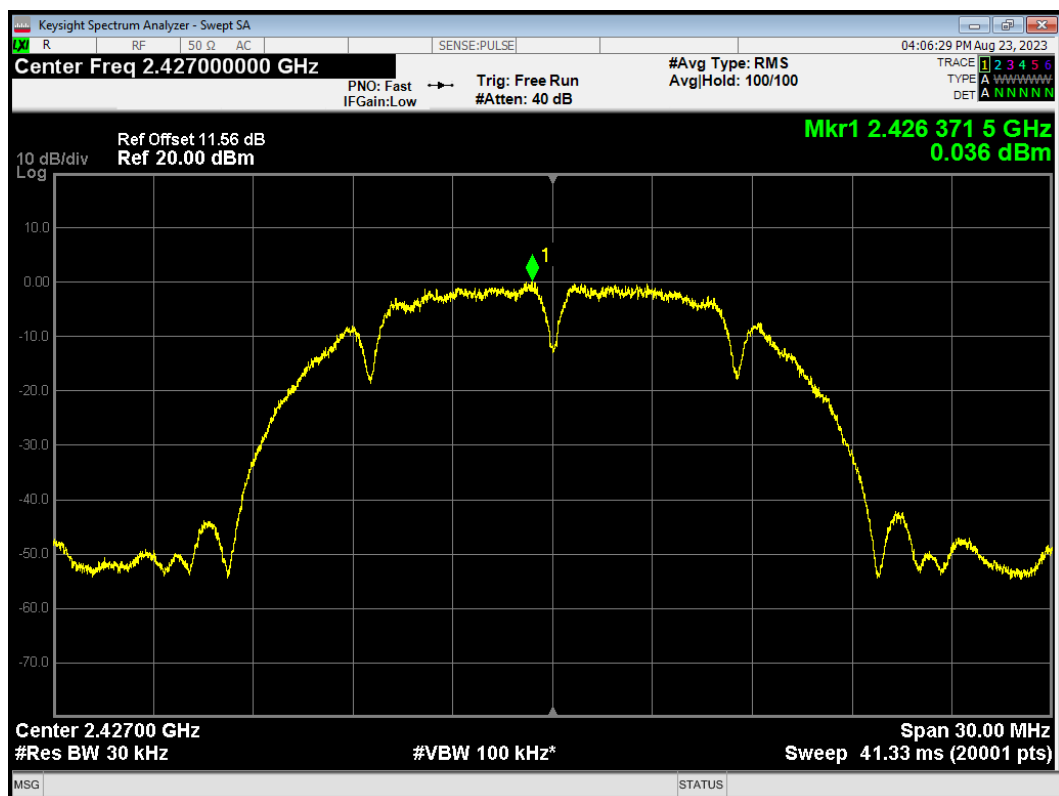
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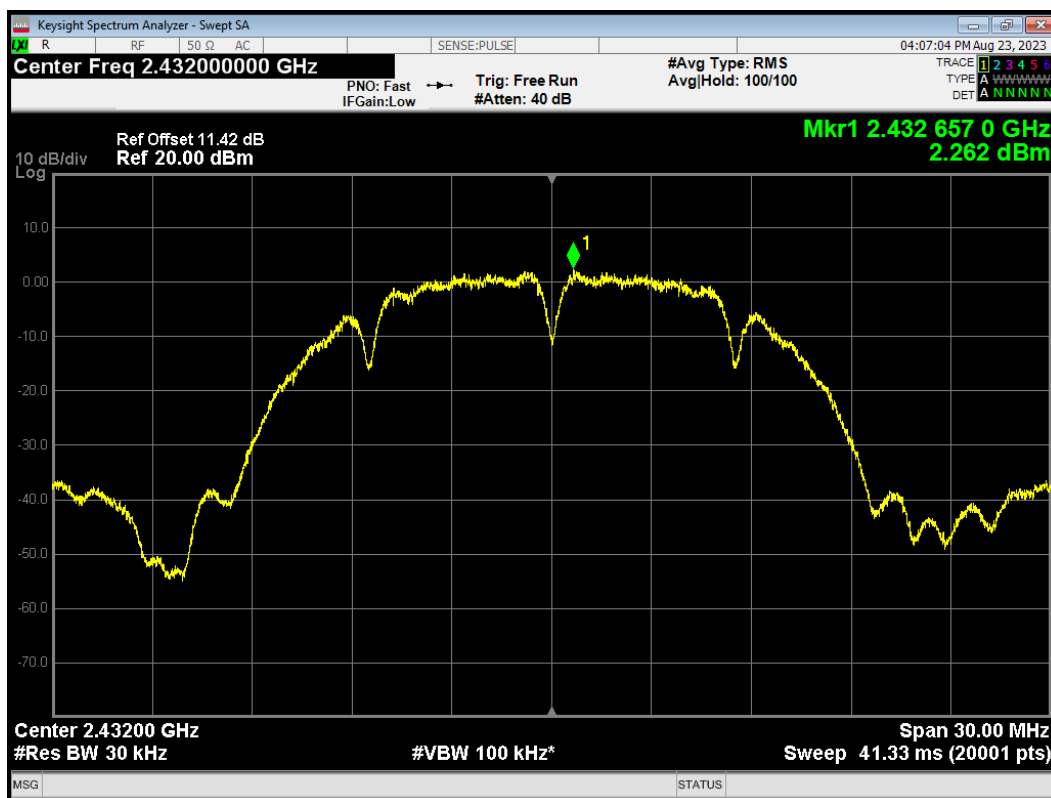
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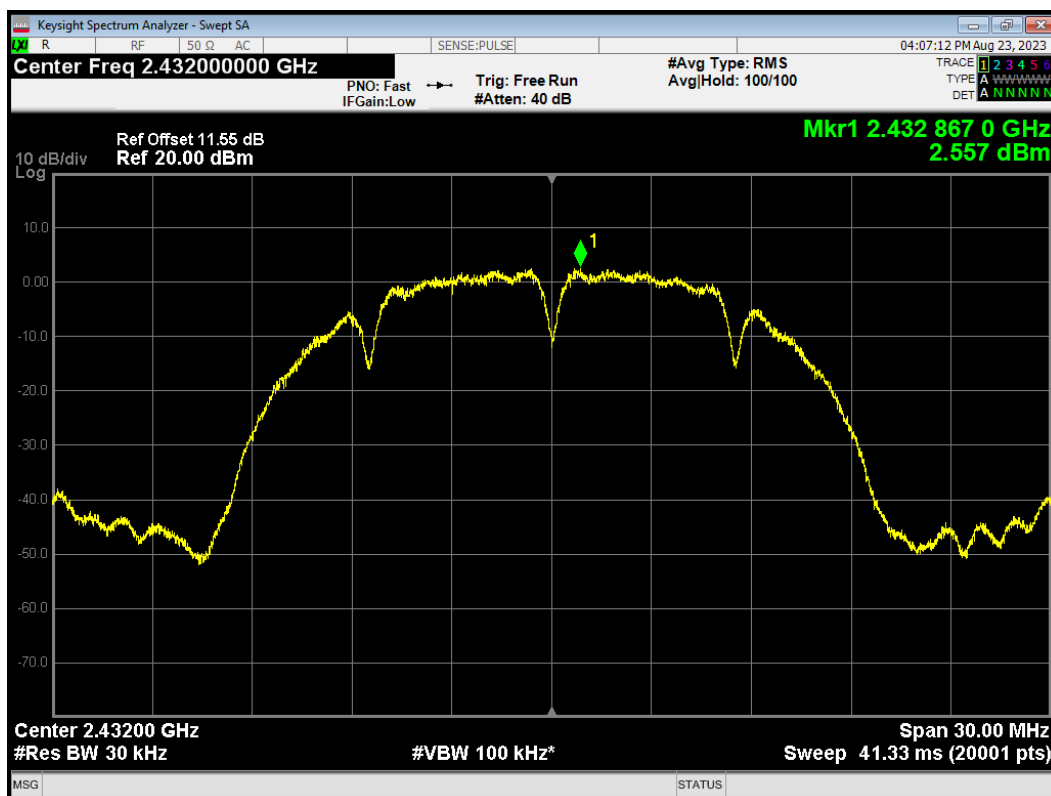
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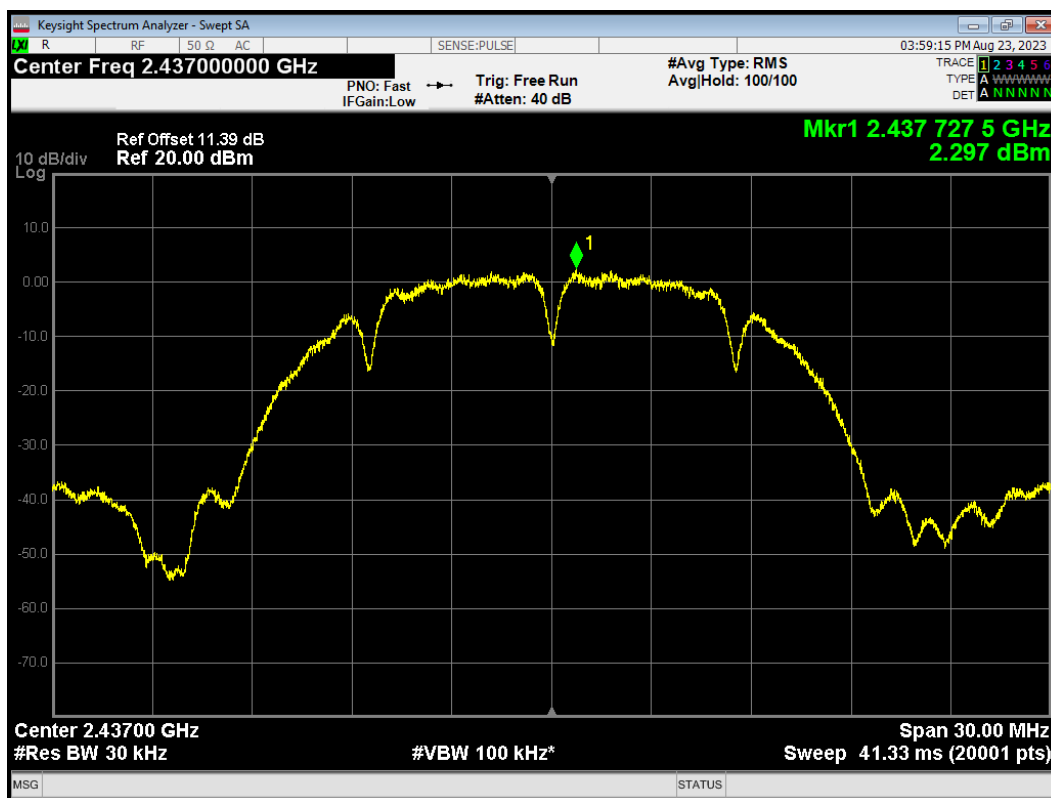
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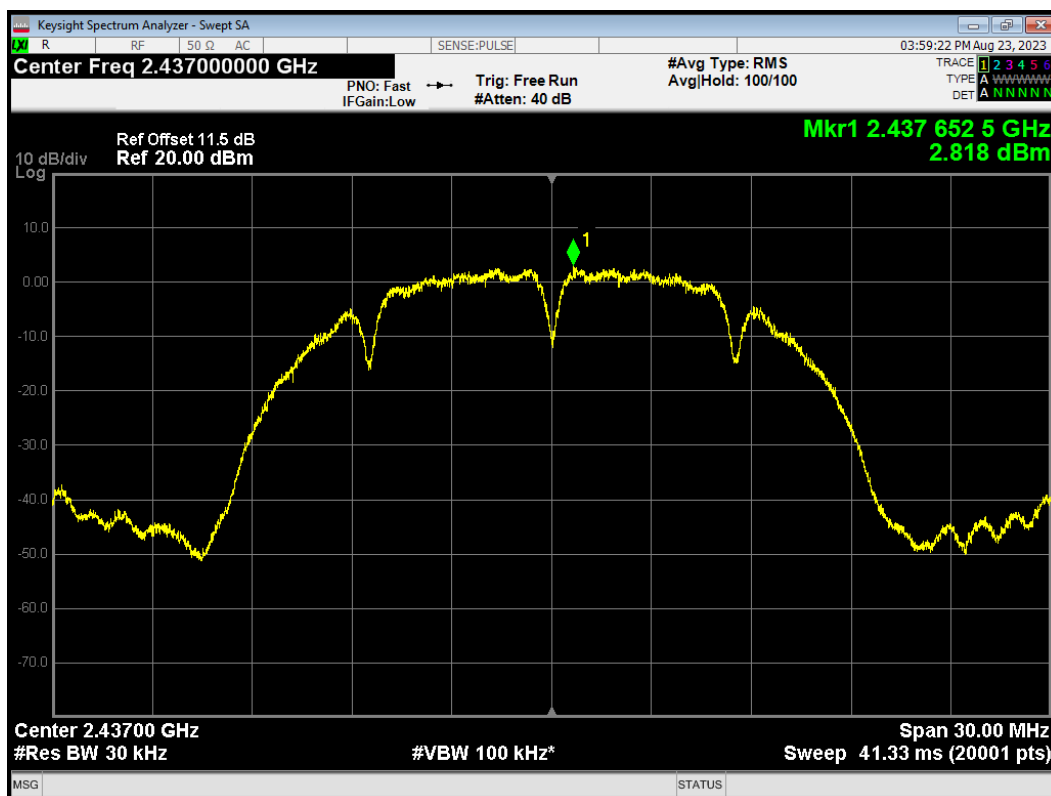
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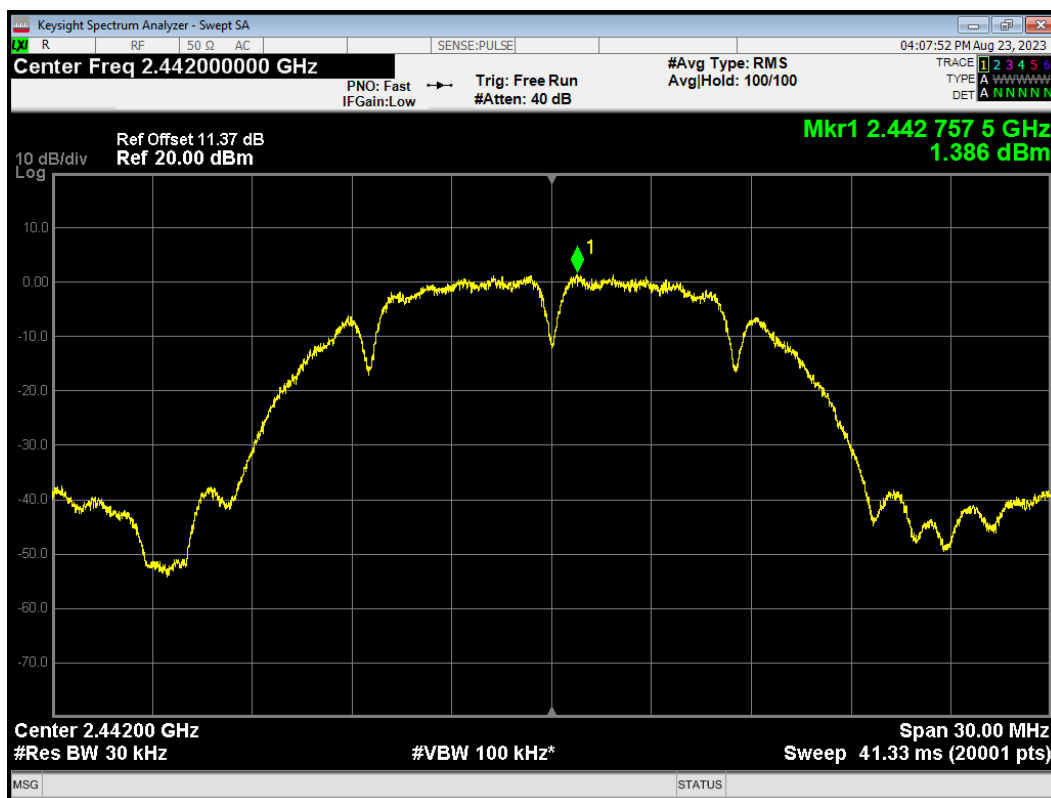
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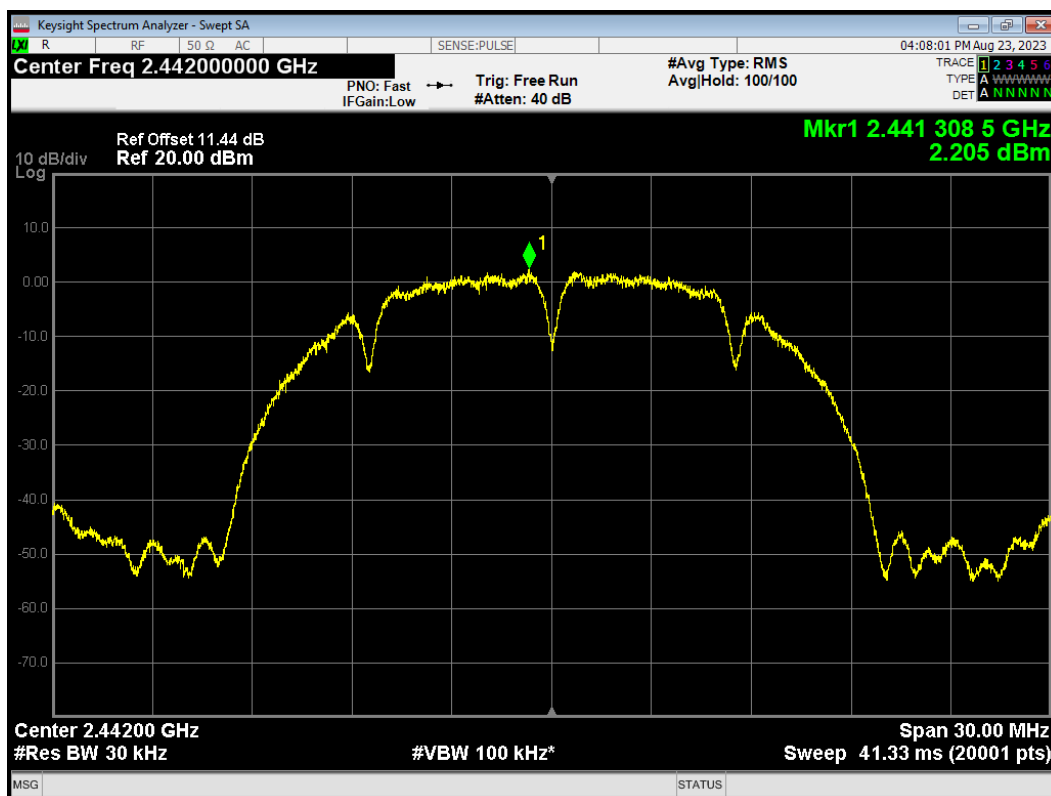
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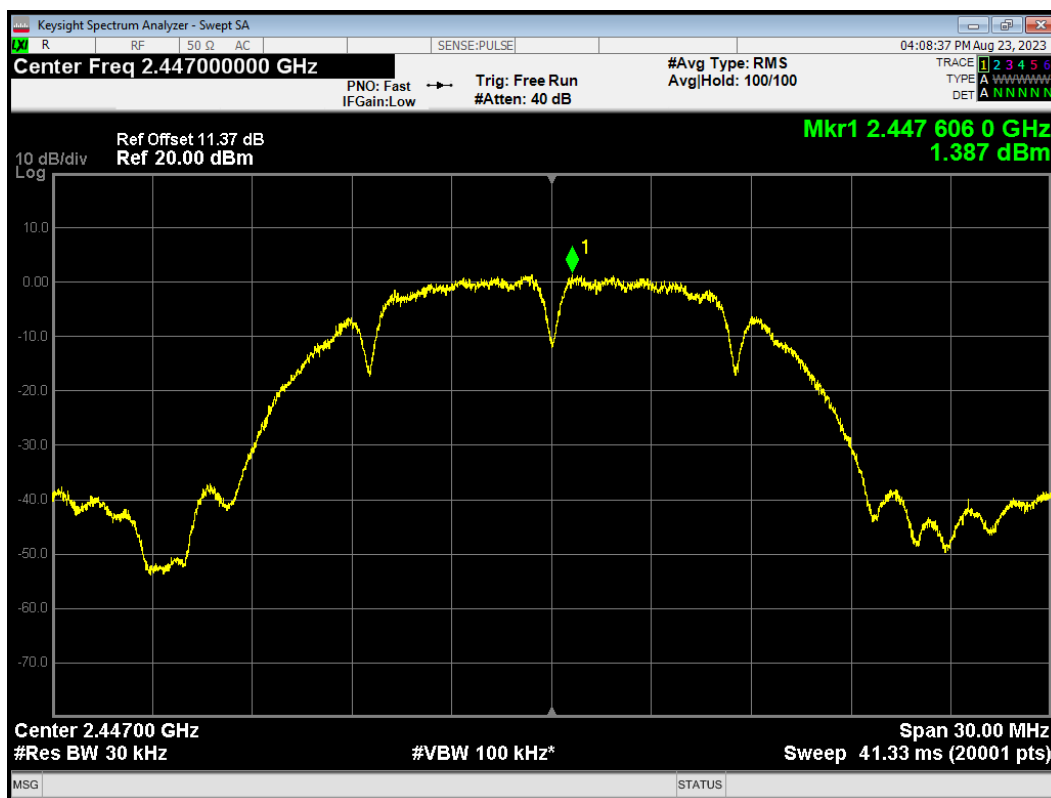
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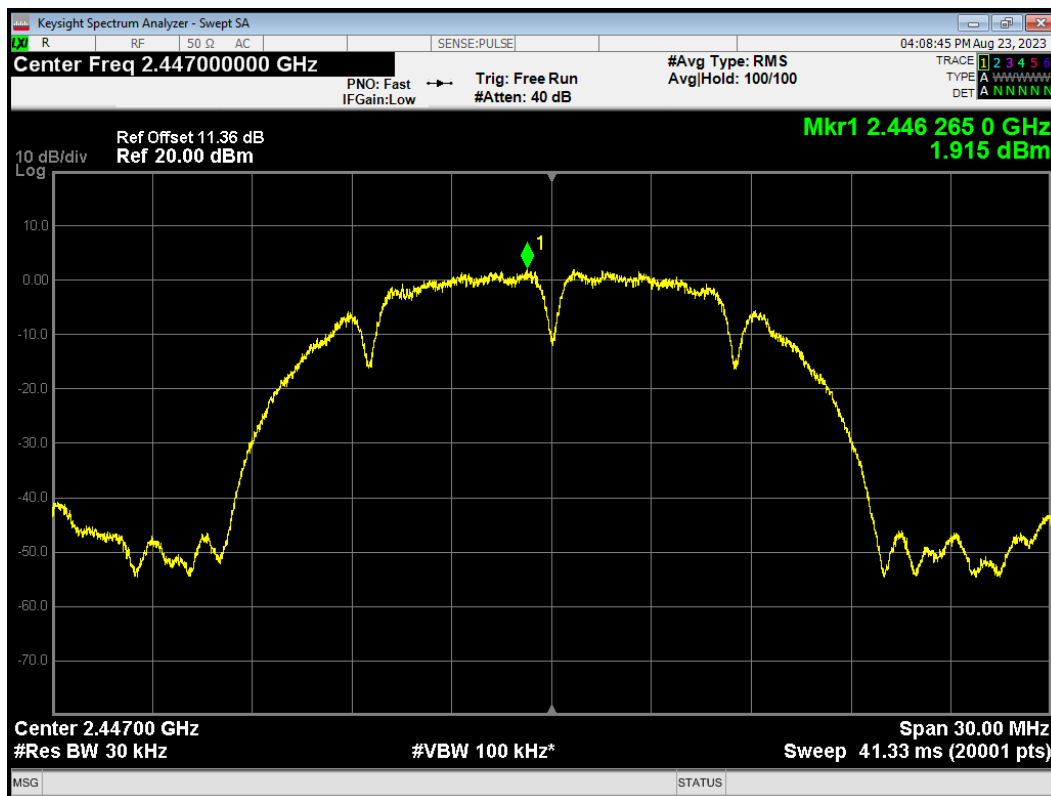
PSD 802.11b 2442MHz Ant3



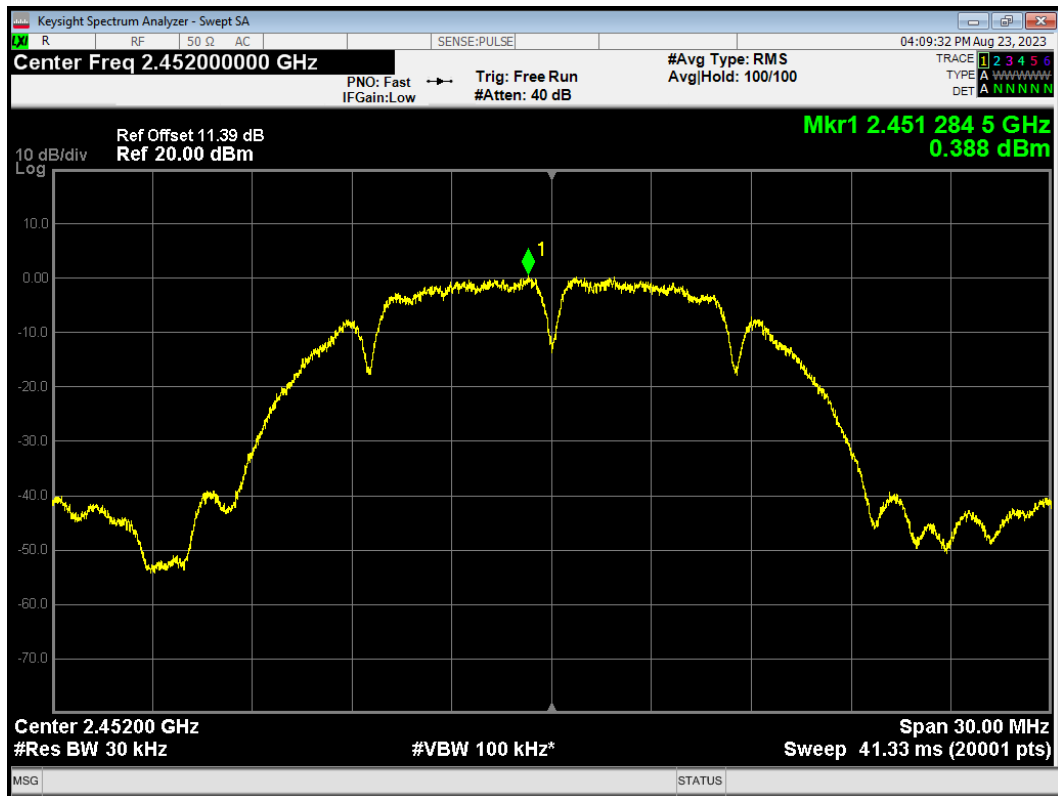
PSD 802.11b 2447MHz Ant2



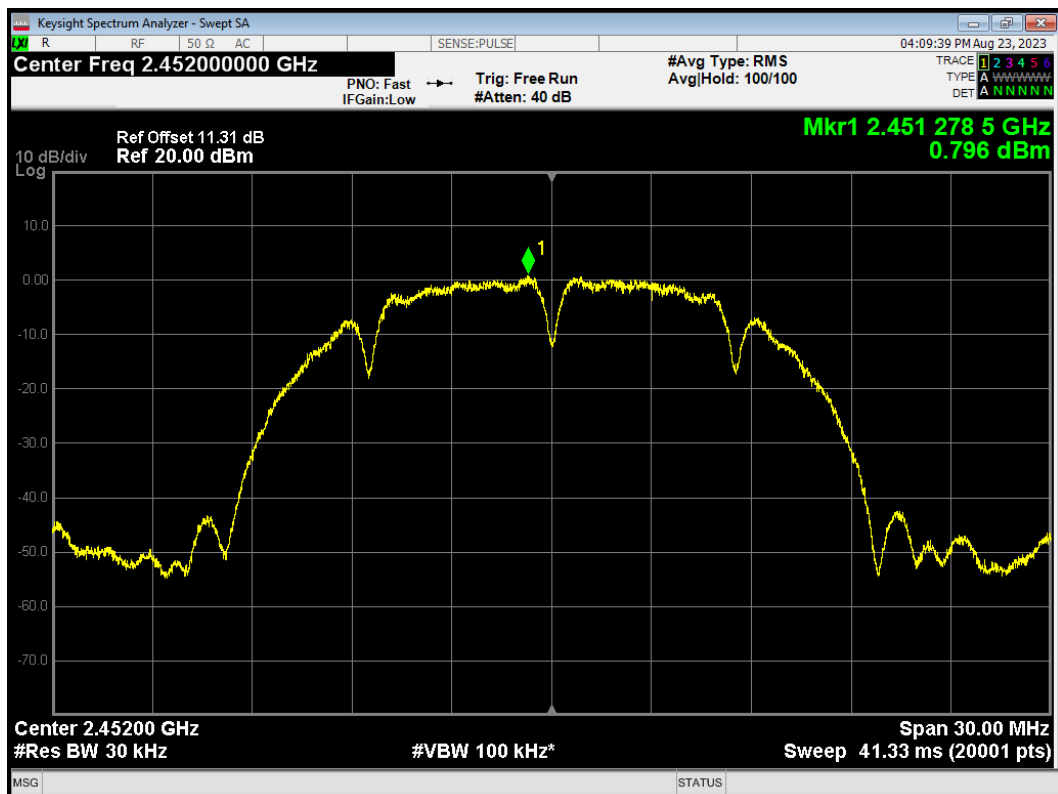
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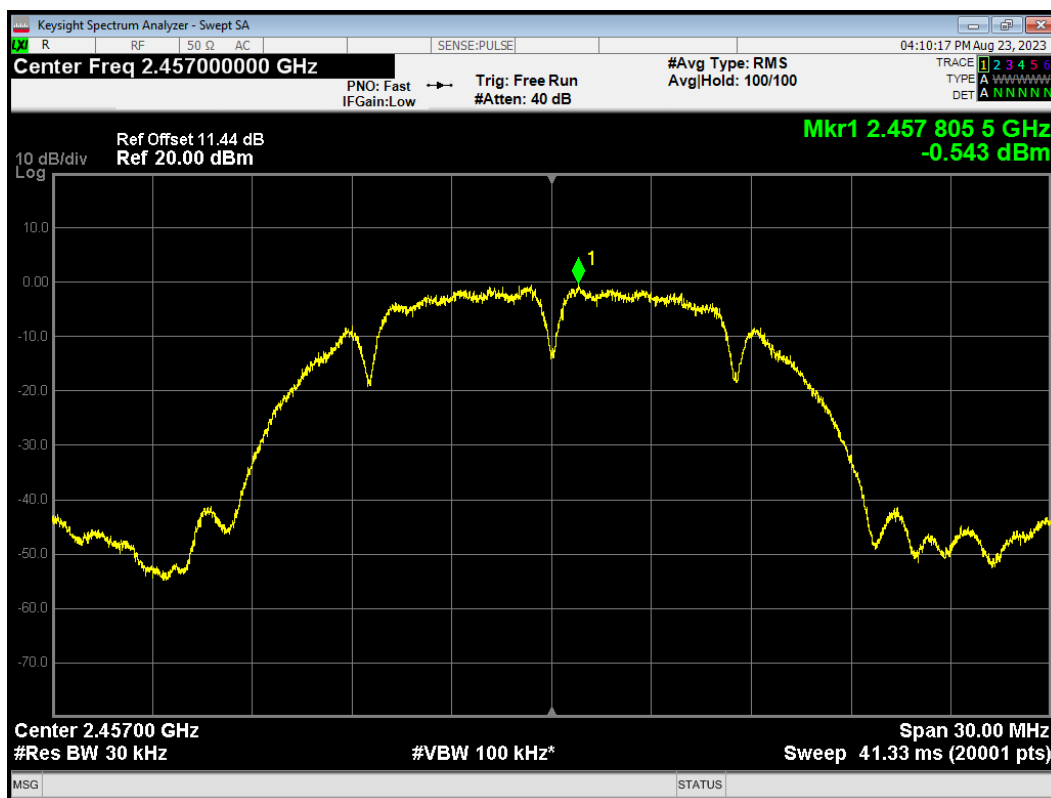
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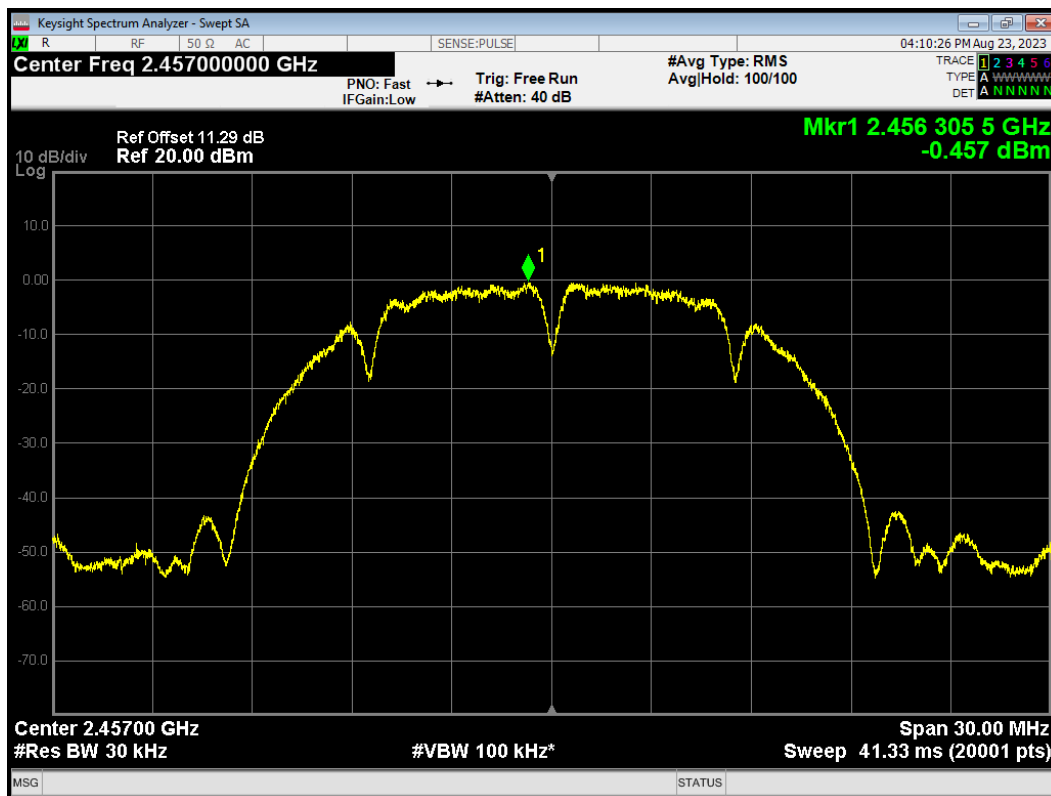
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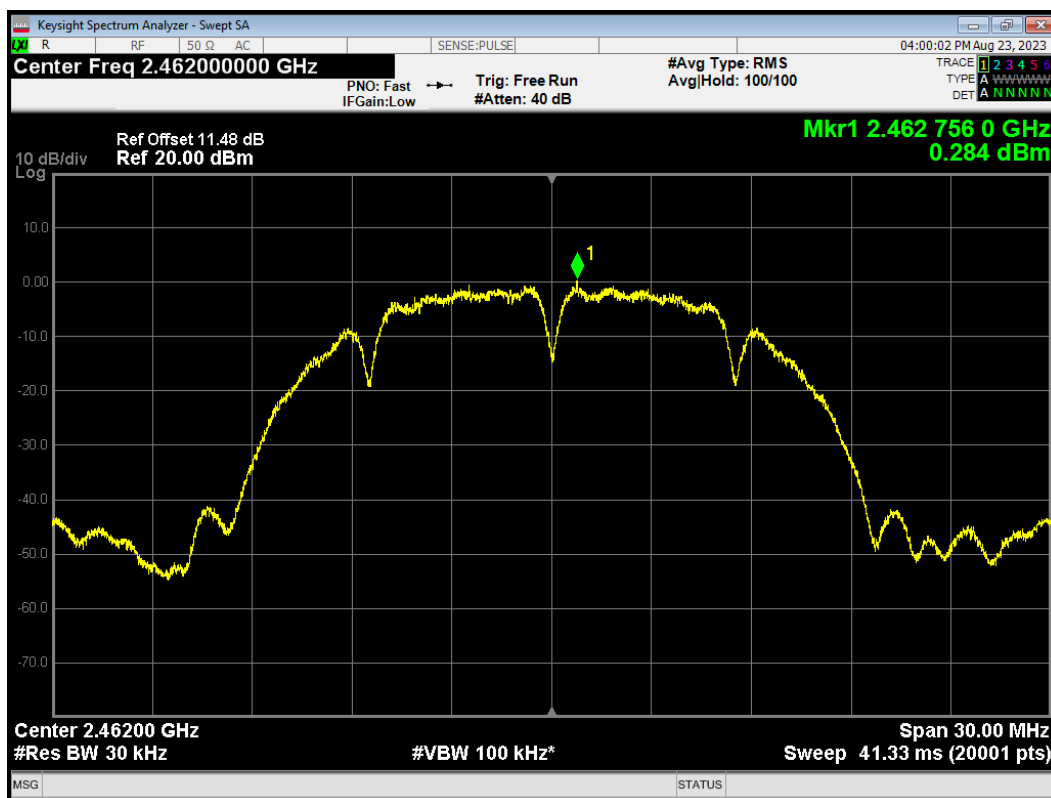
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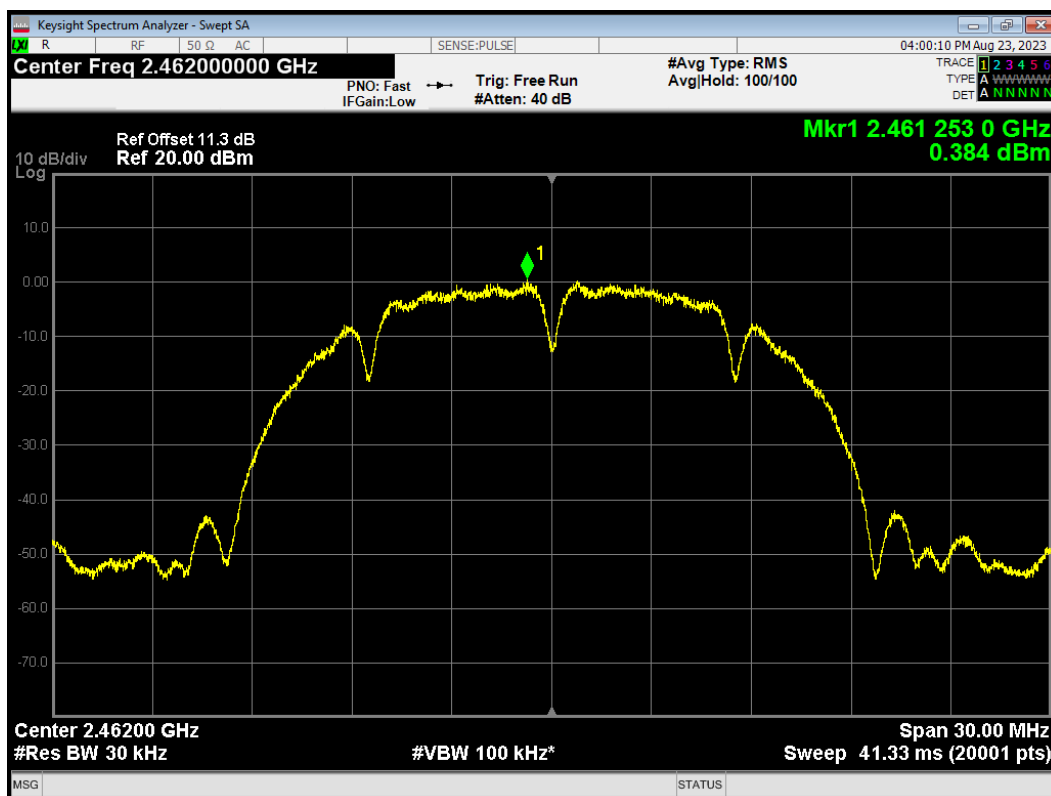
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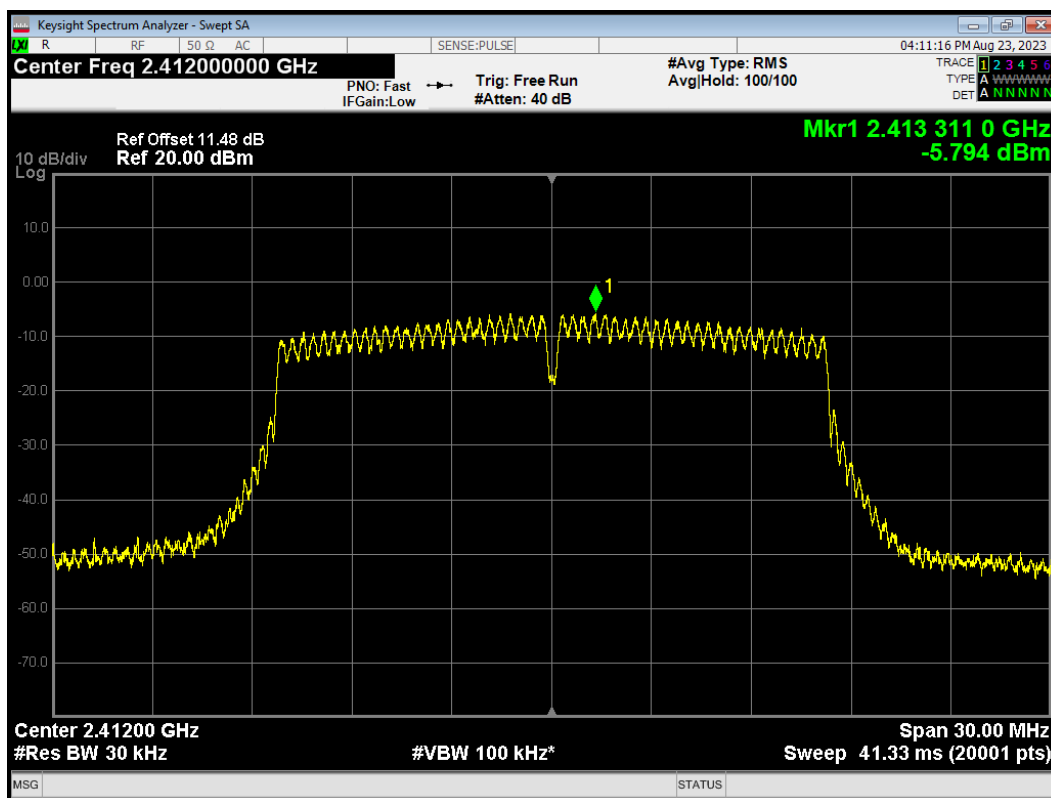
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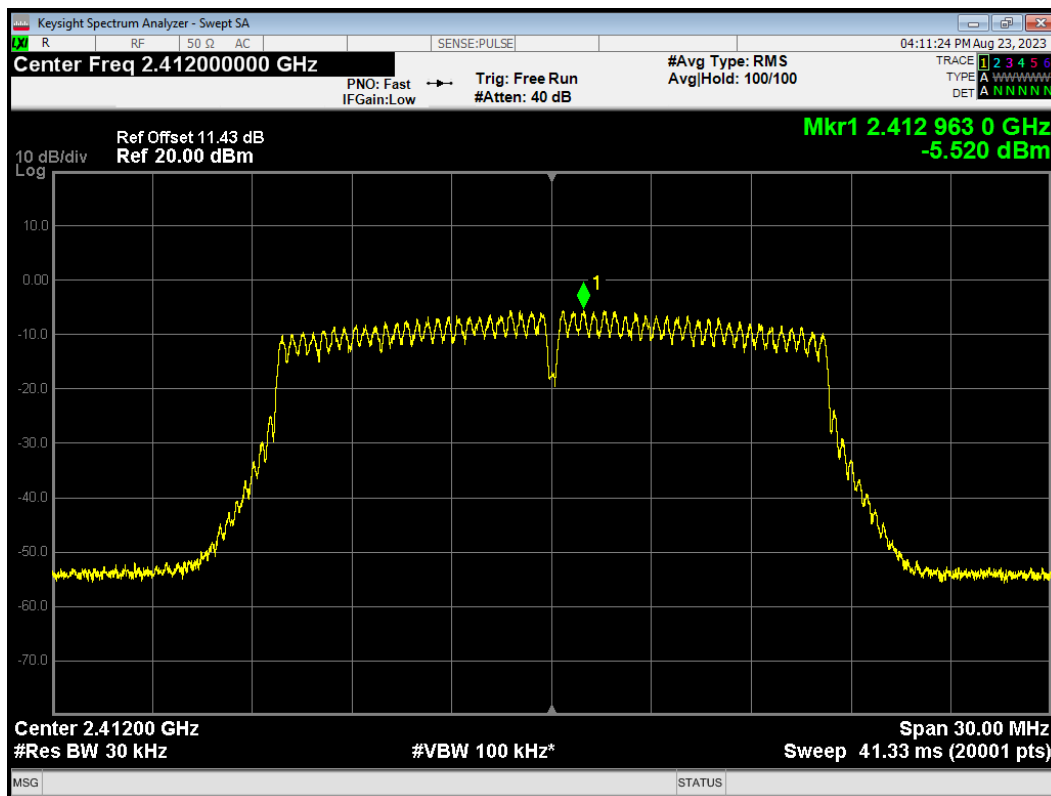
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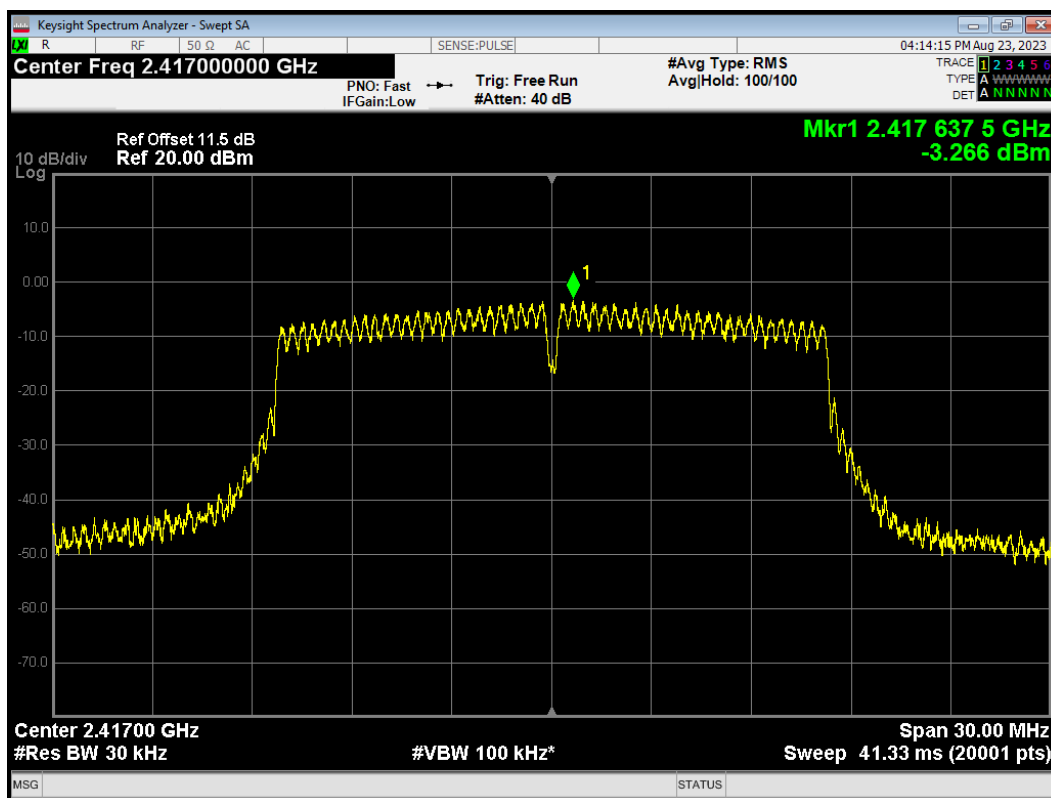
PSD 802.11g 2412MHz Ant2



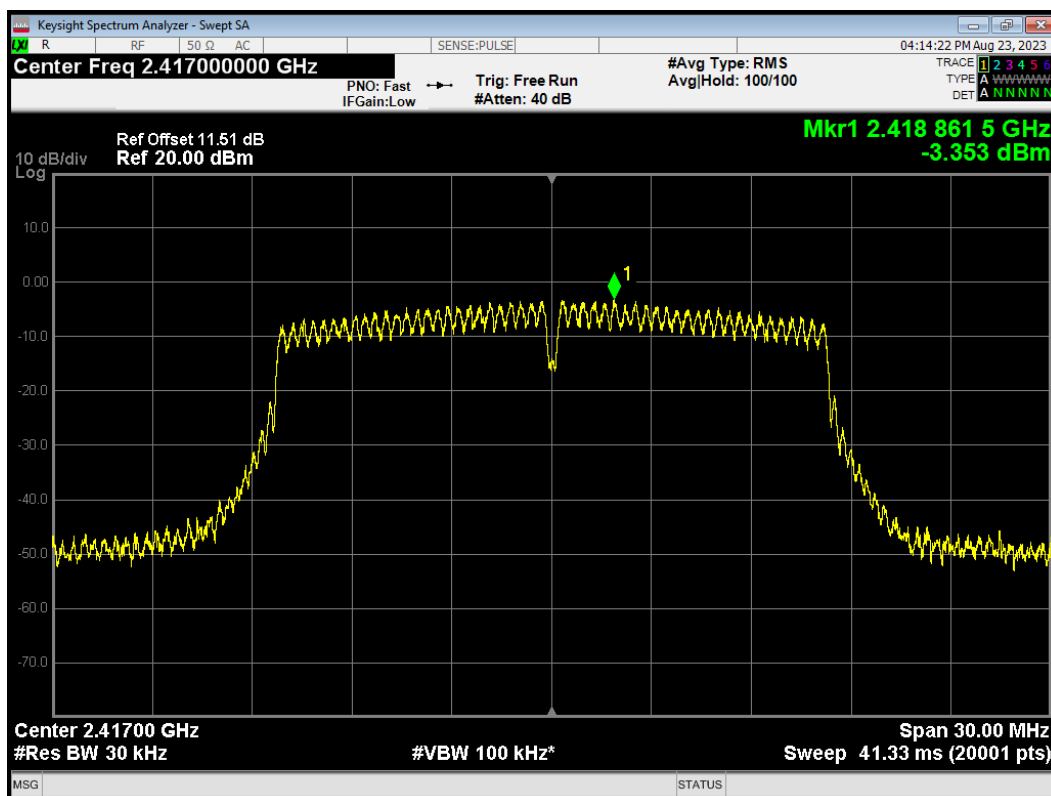
PSD 802.11g 2412MHz Ant3



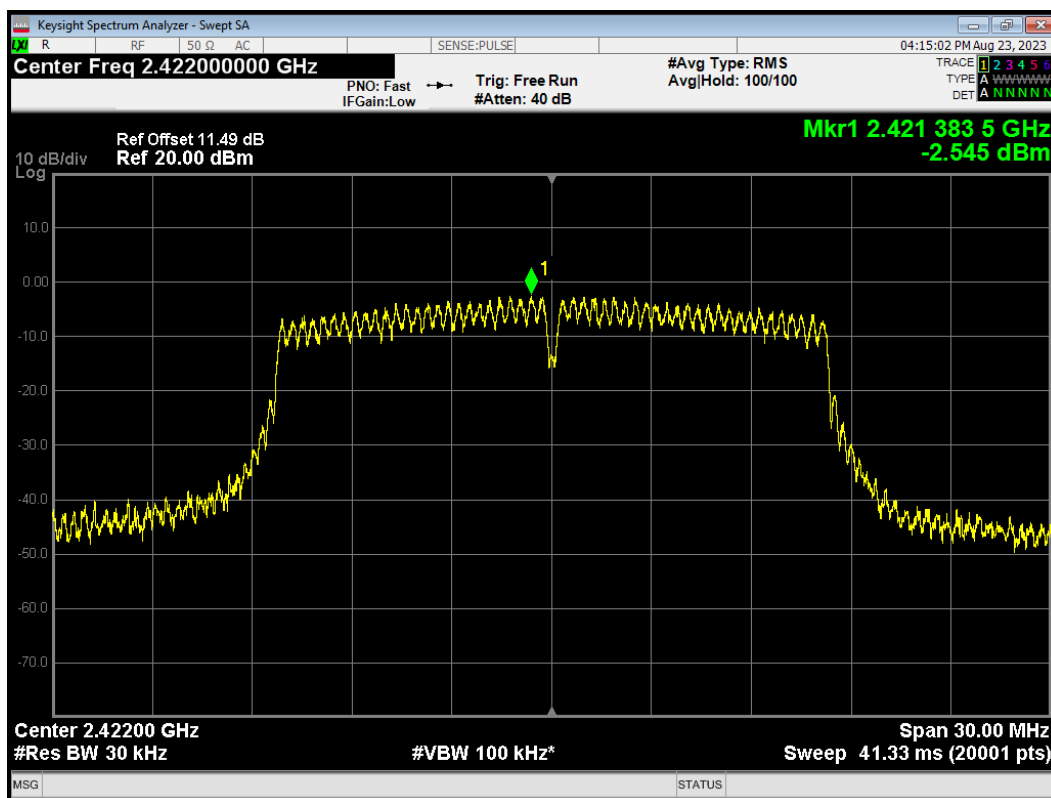
PSD 802.11g 2417MHz Ant2



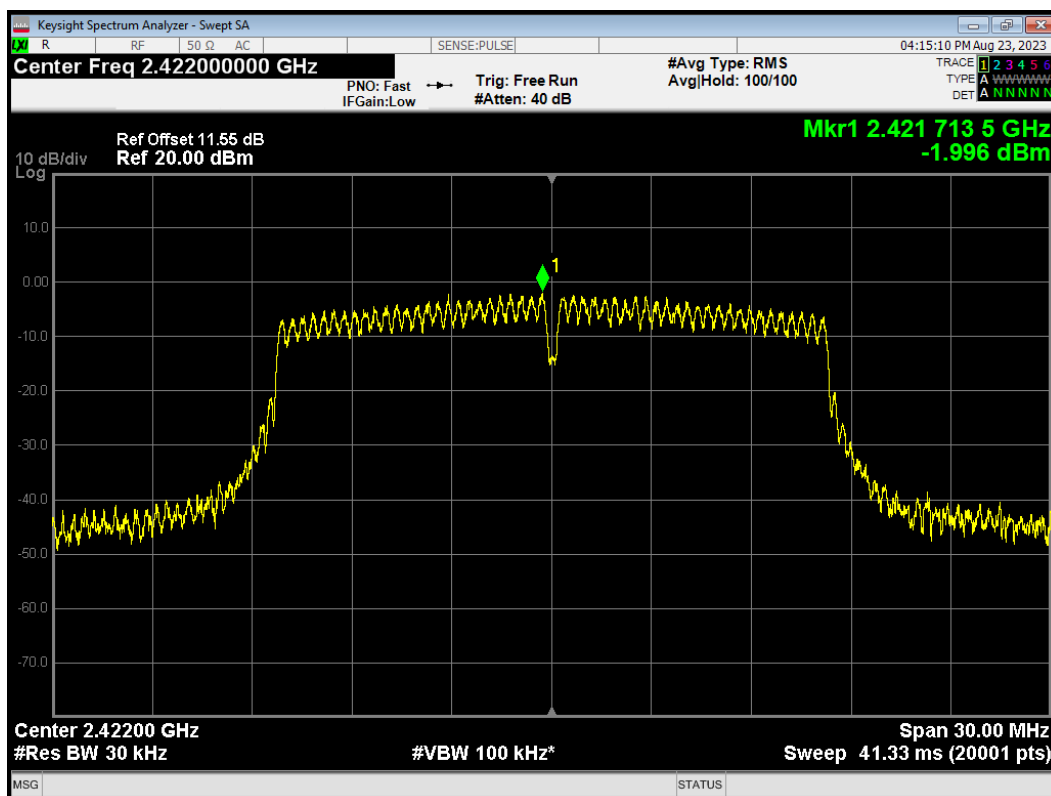
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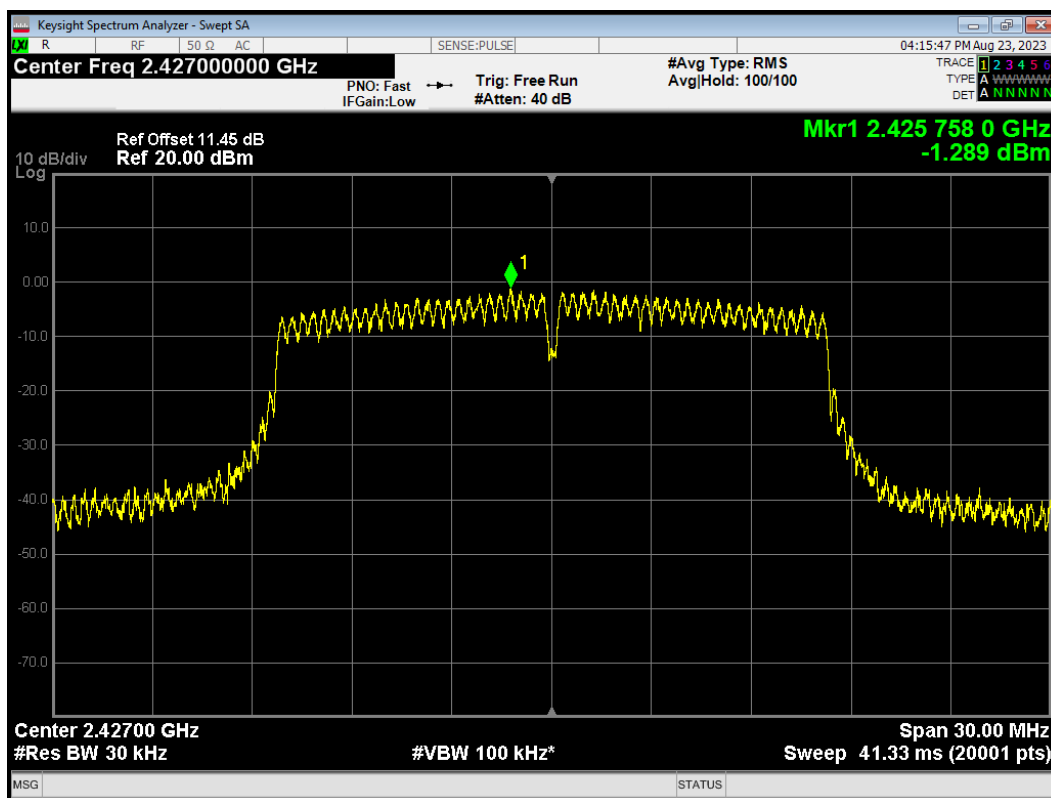
PSD 802.11g 2422MHz Ant2



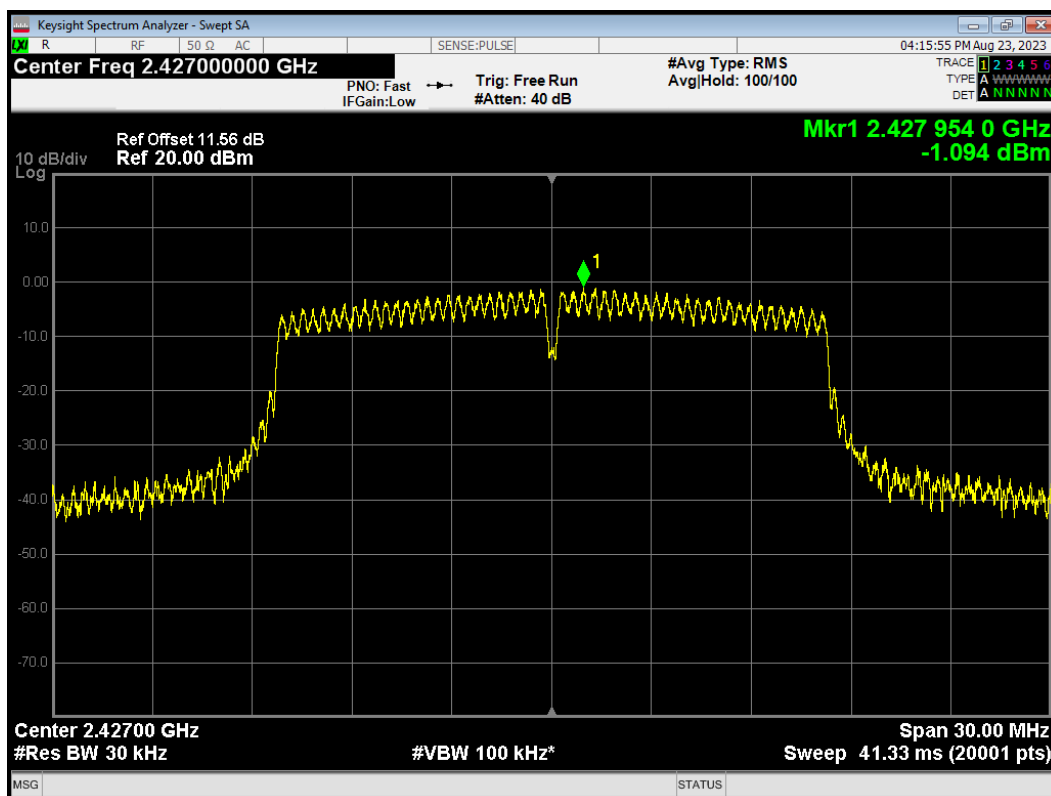
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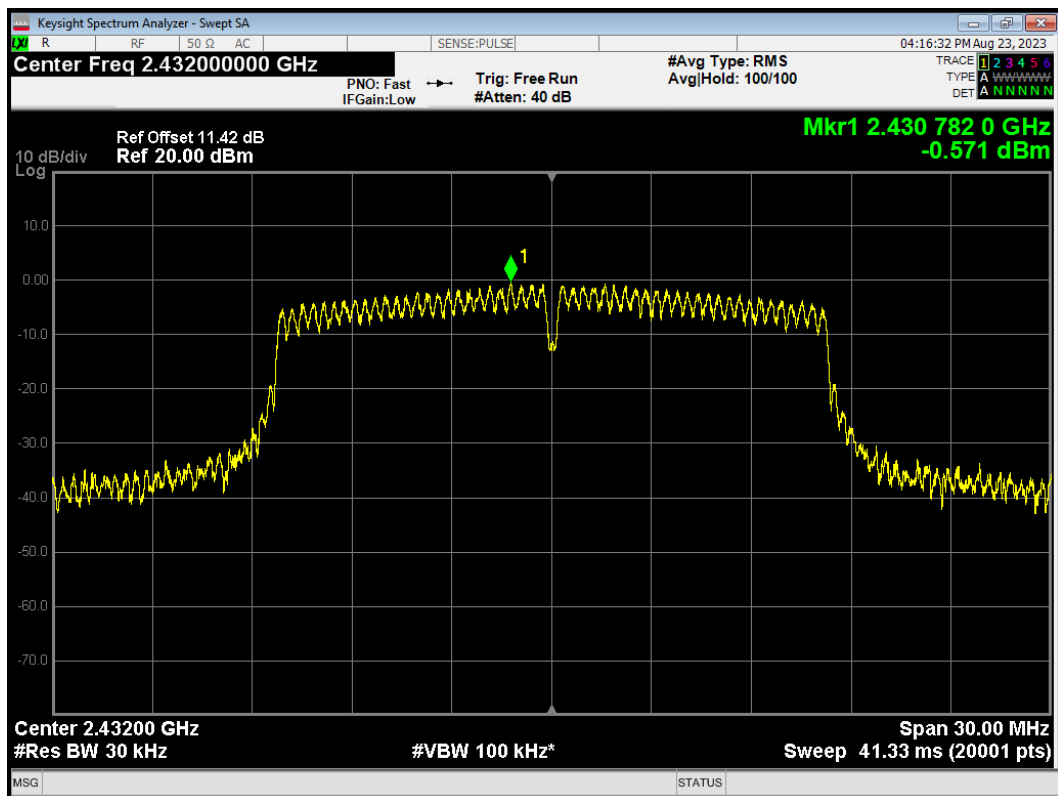
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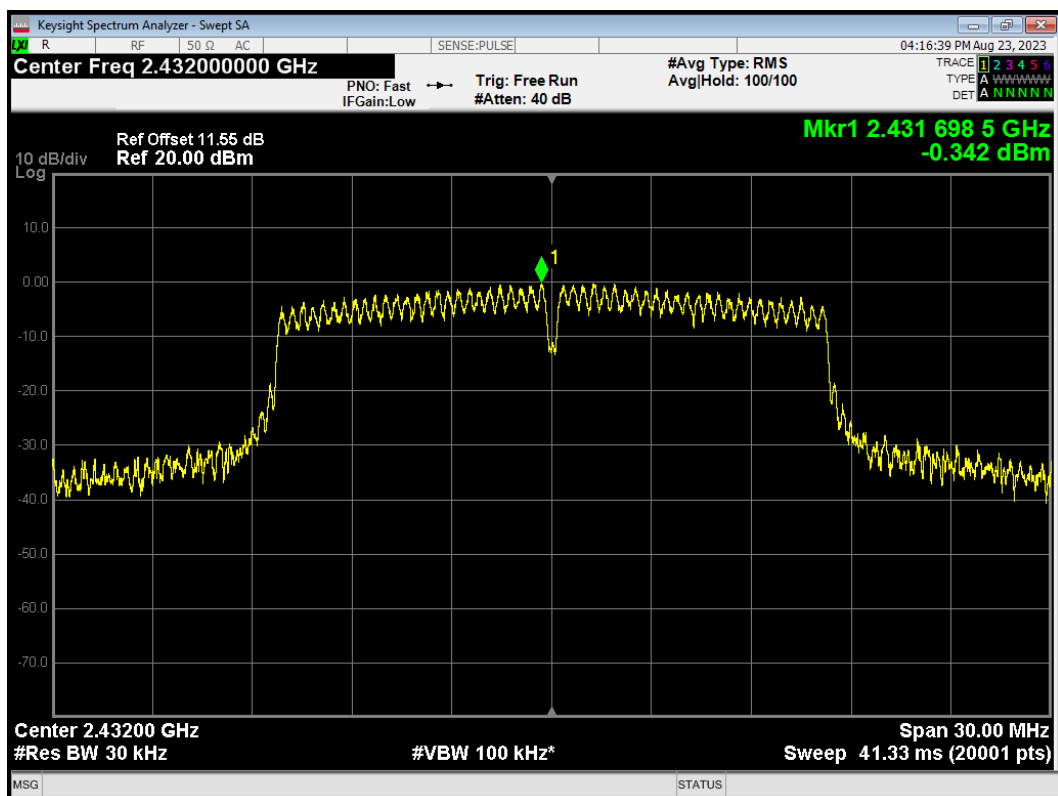
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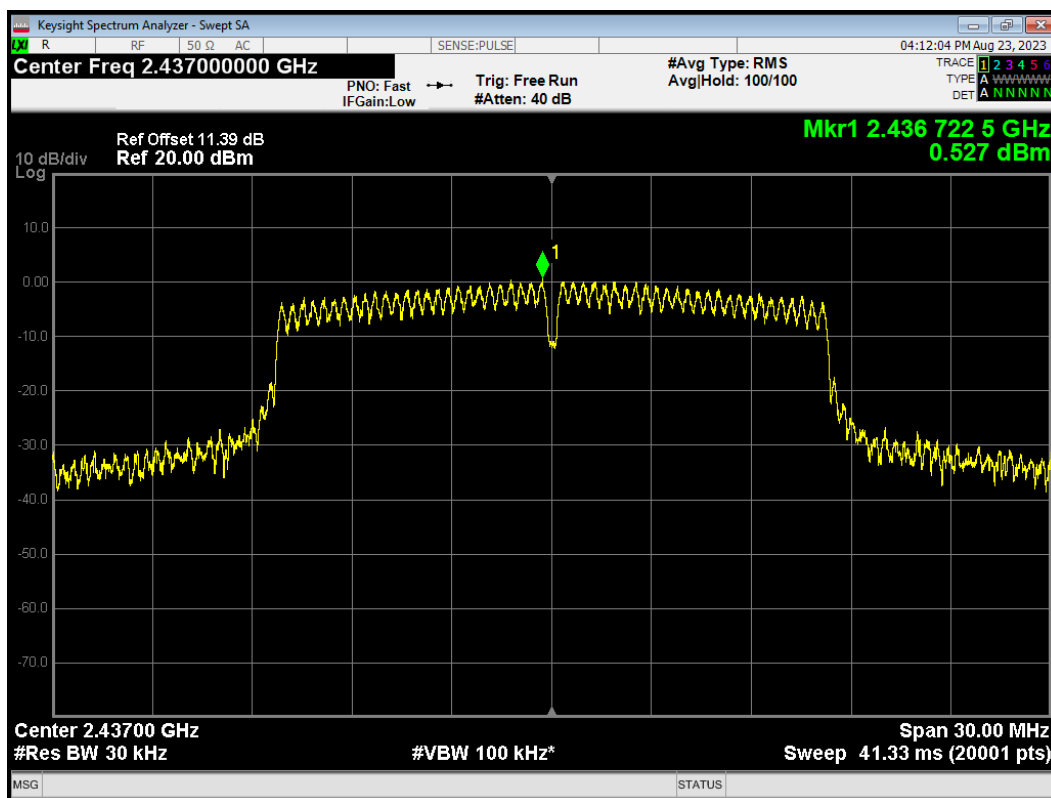
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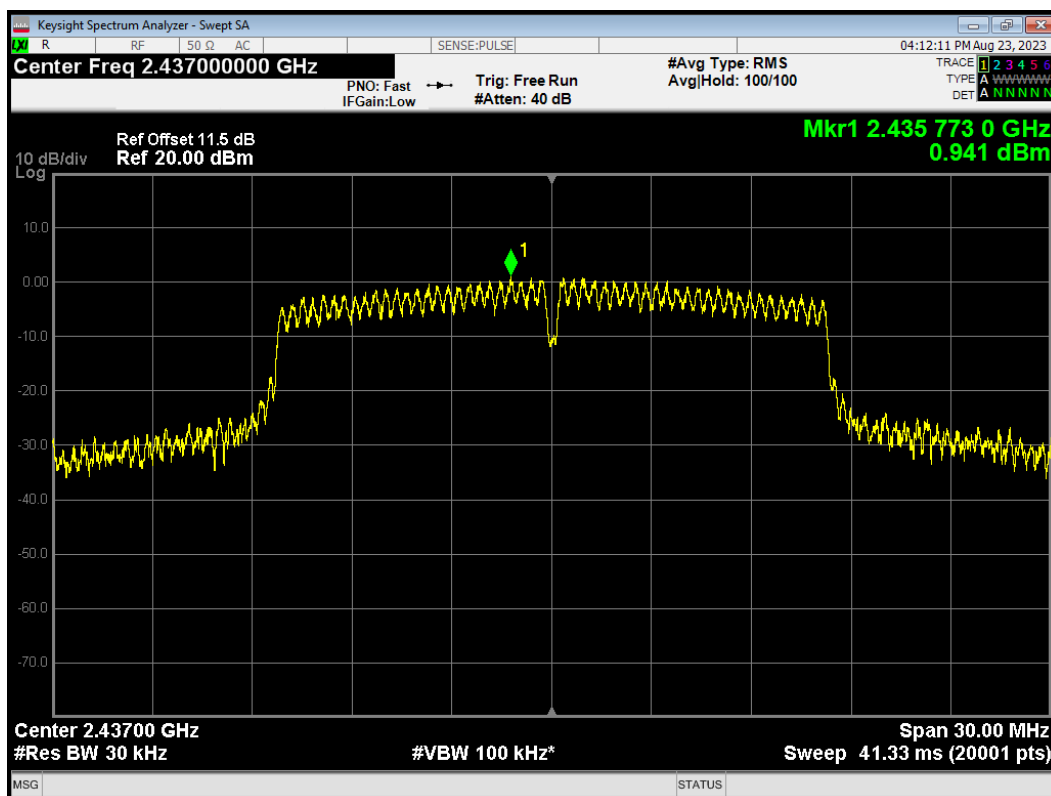
PSD 802.11g 2432MHz Ant3



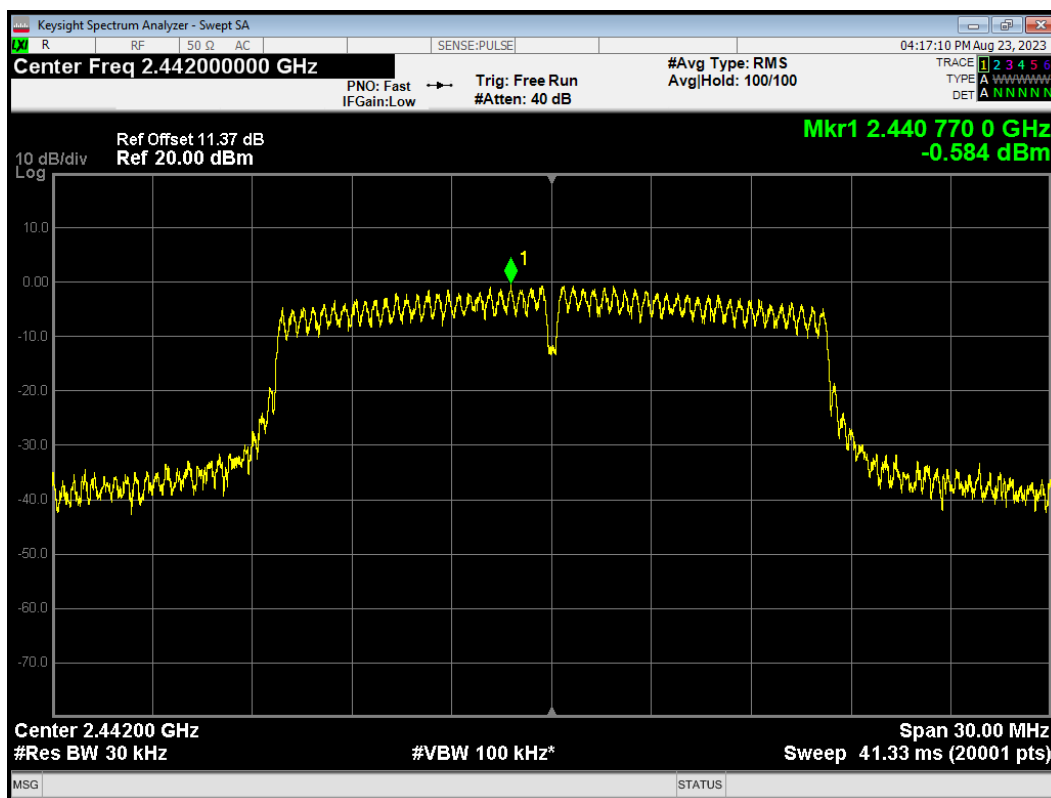
PSD 802.11g 2437MHz Ant2



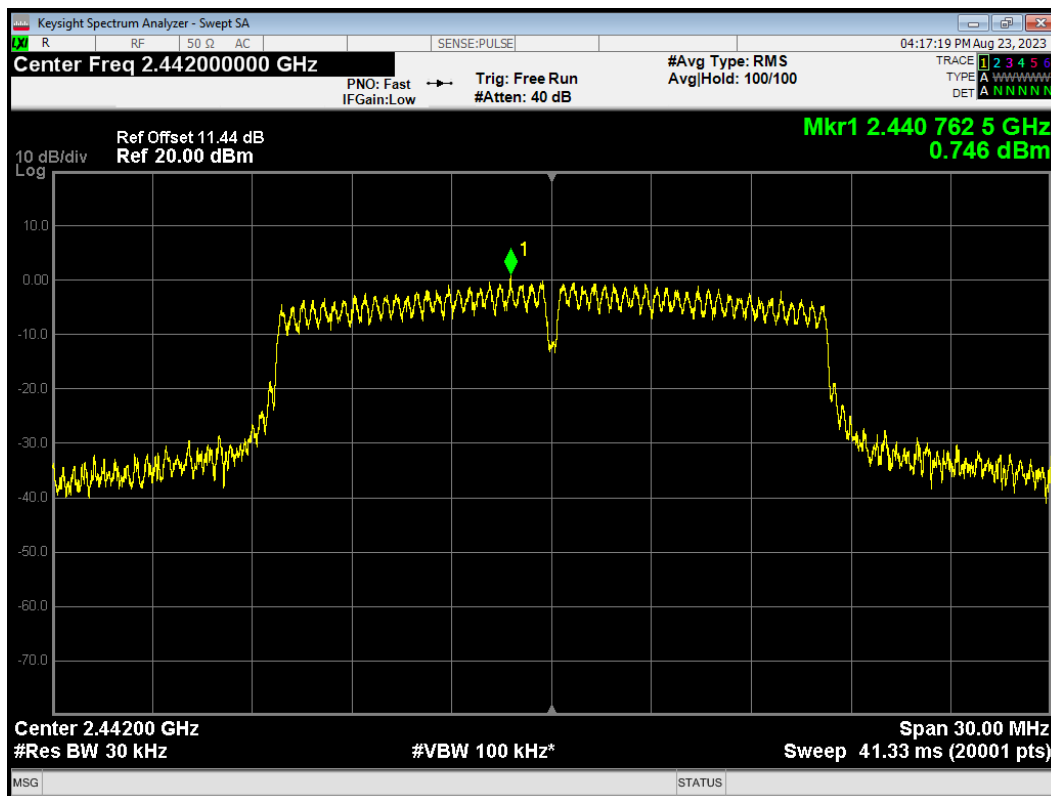
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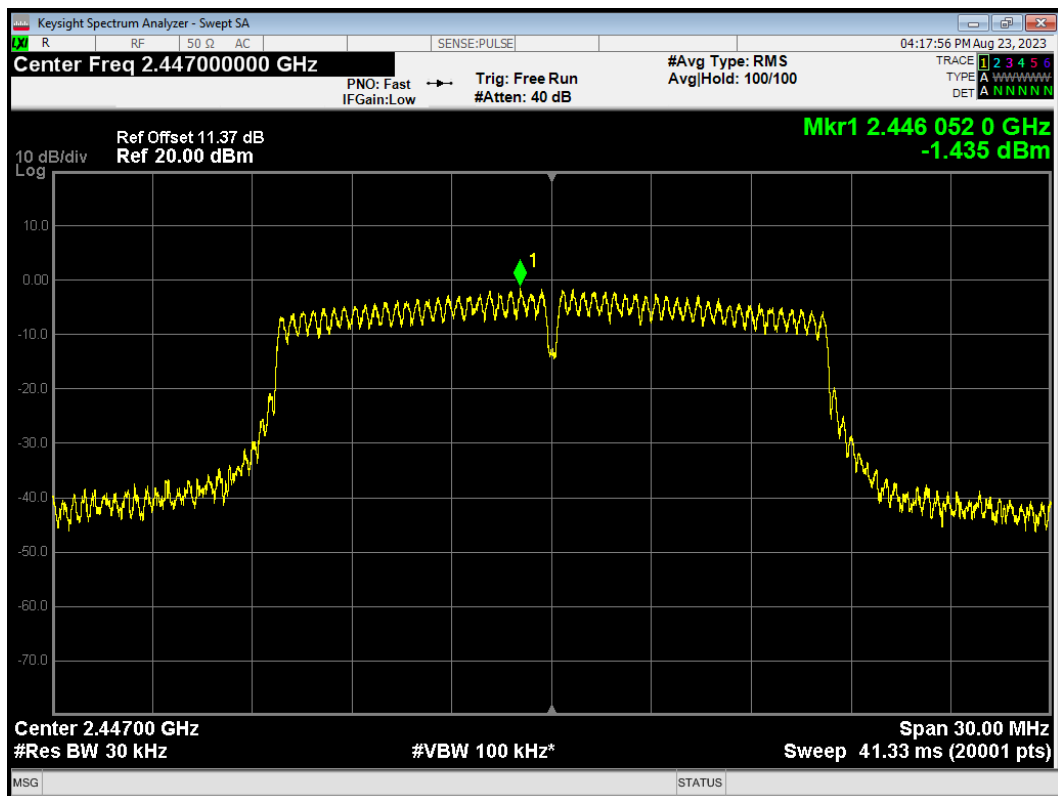
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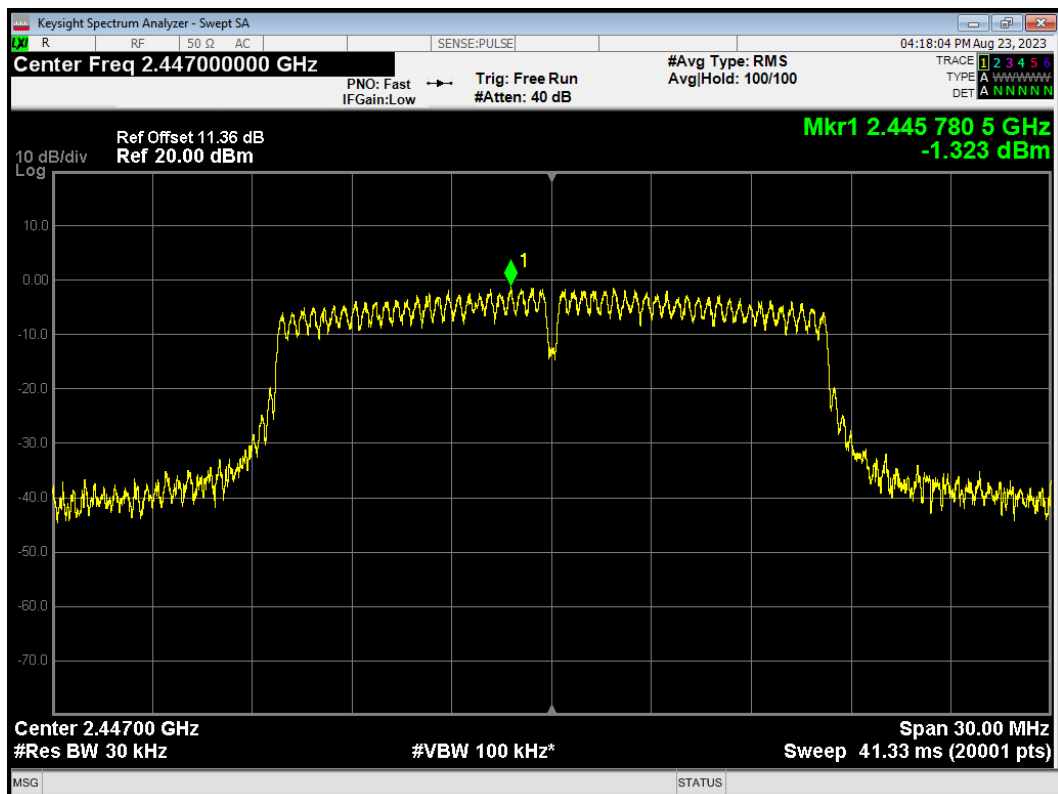
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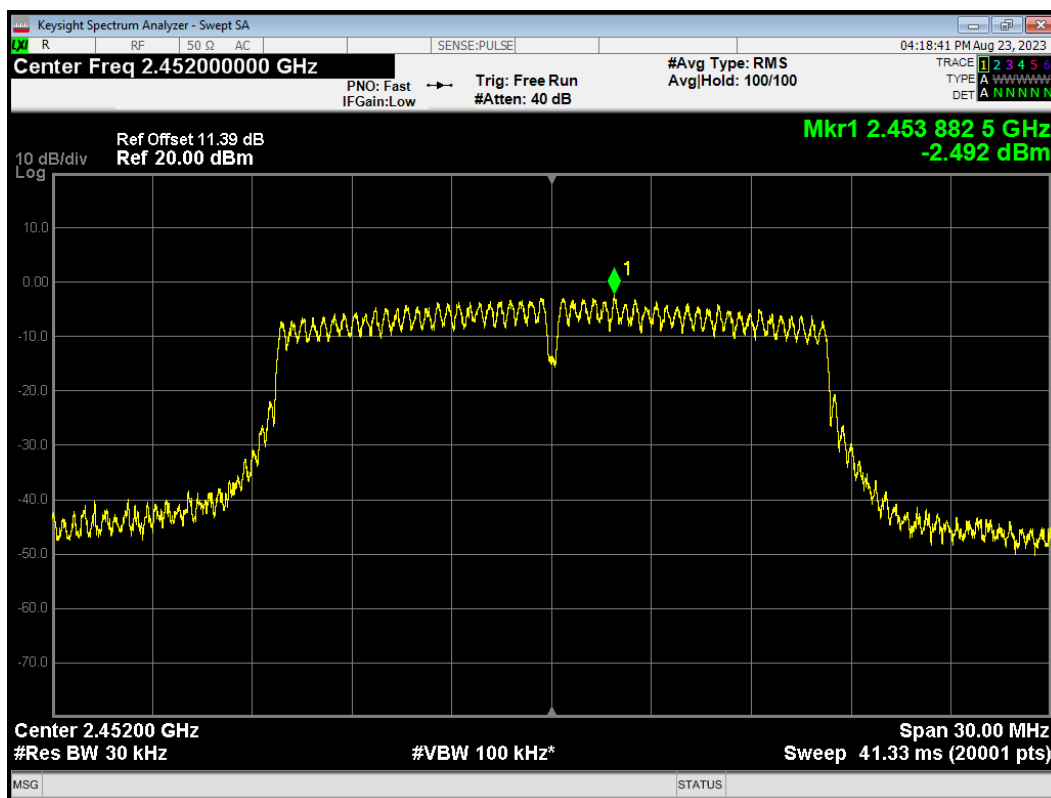
PSD 802.11g 2447MHz Ant2



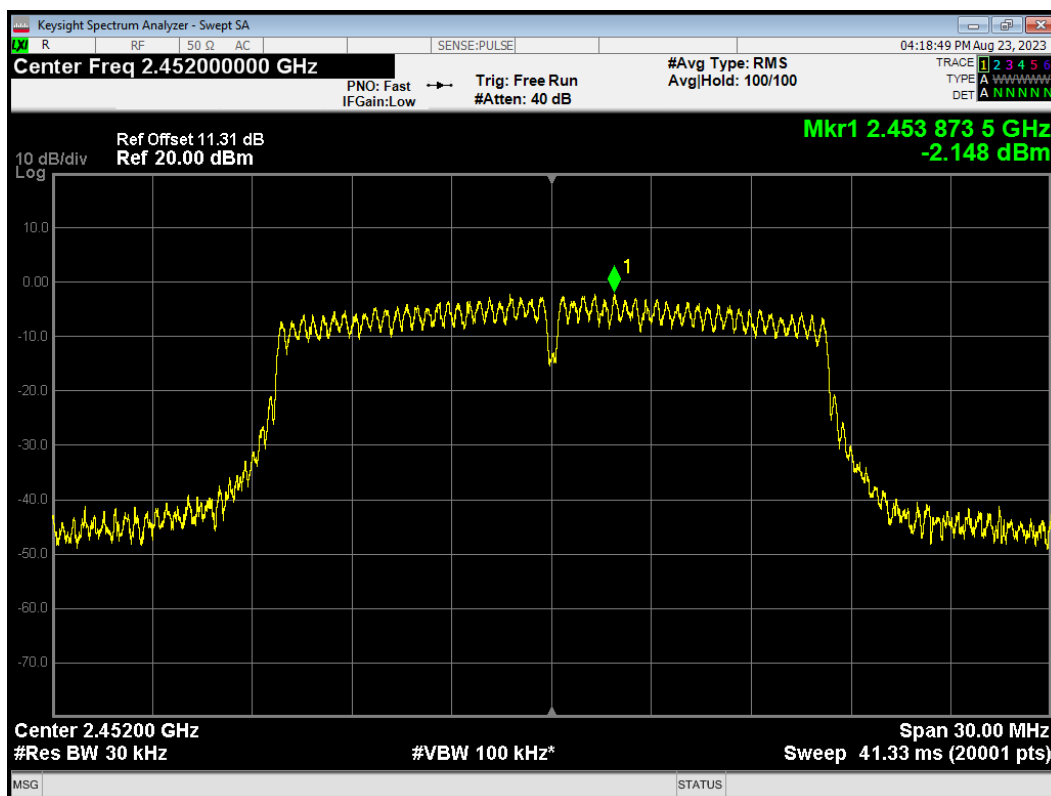
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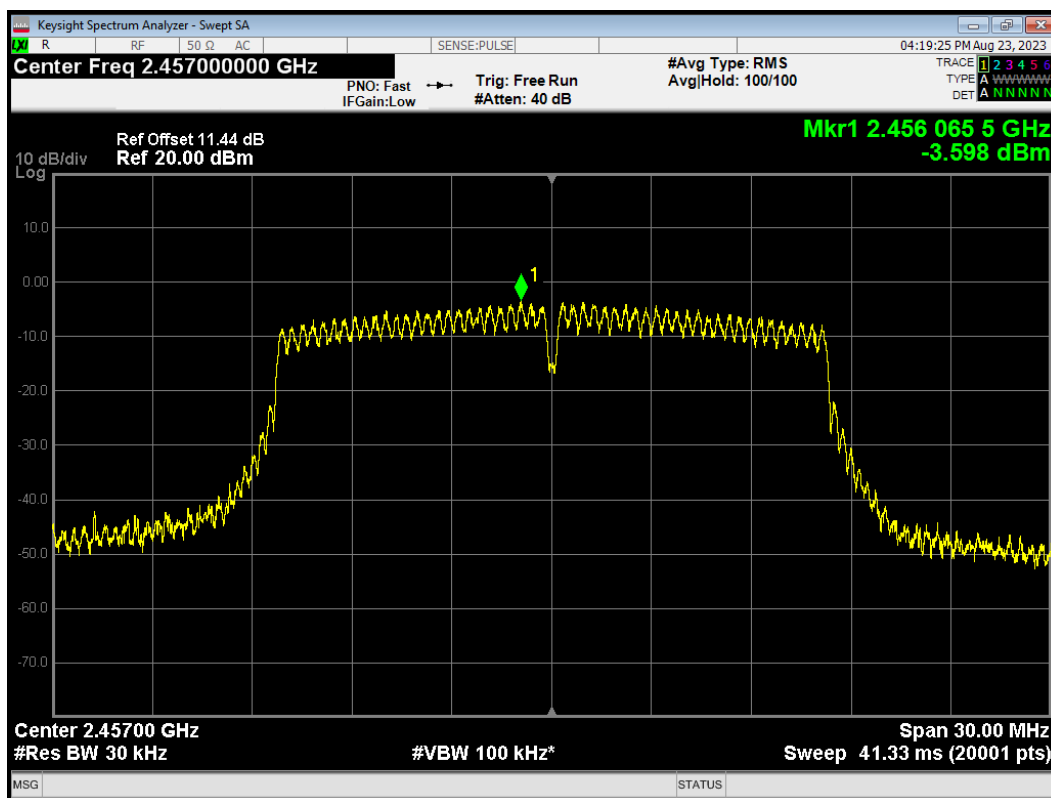
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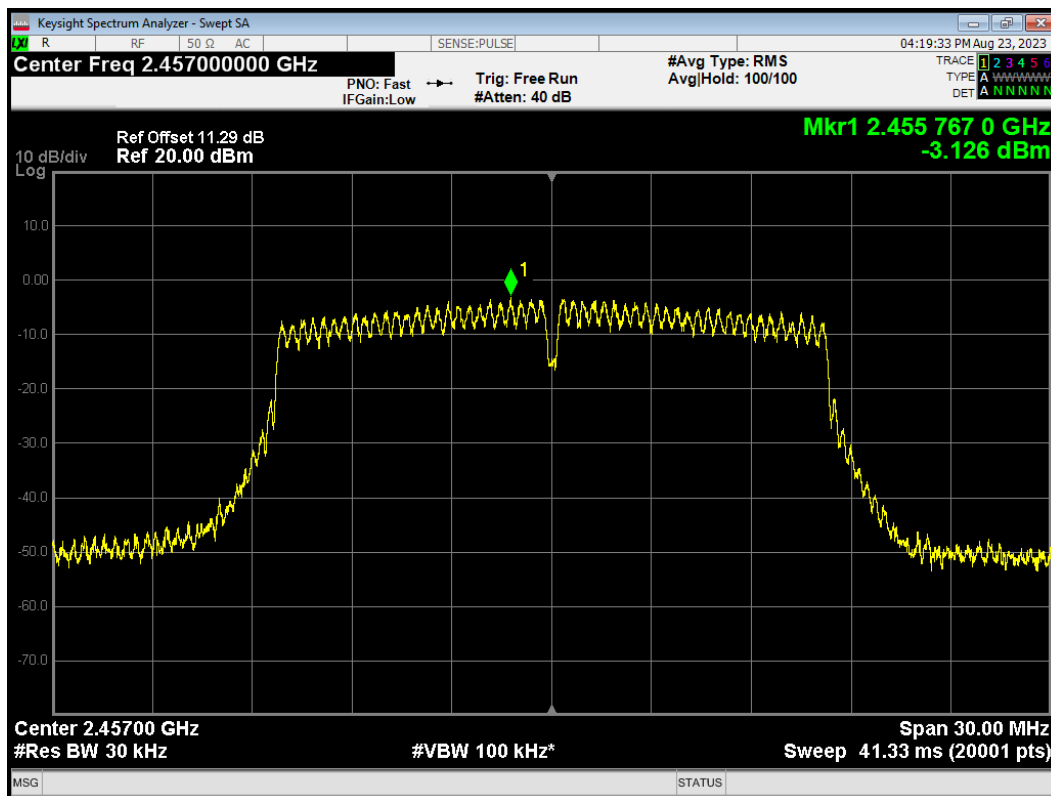
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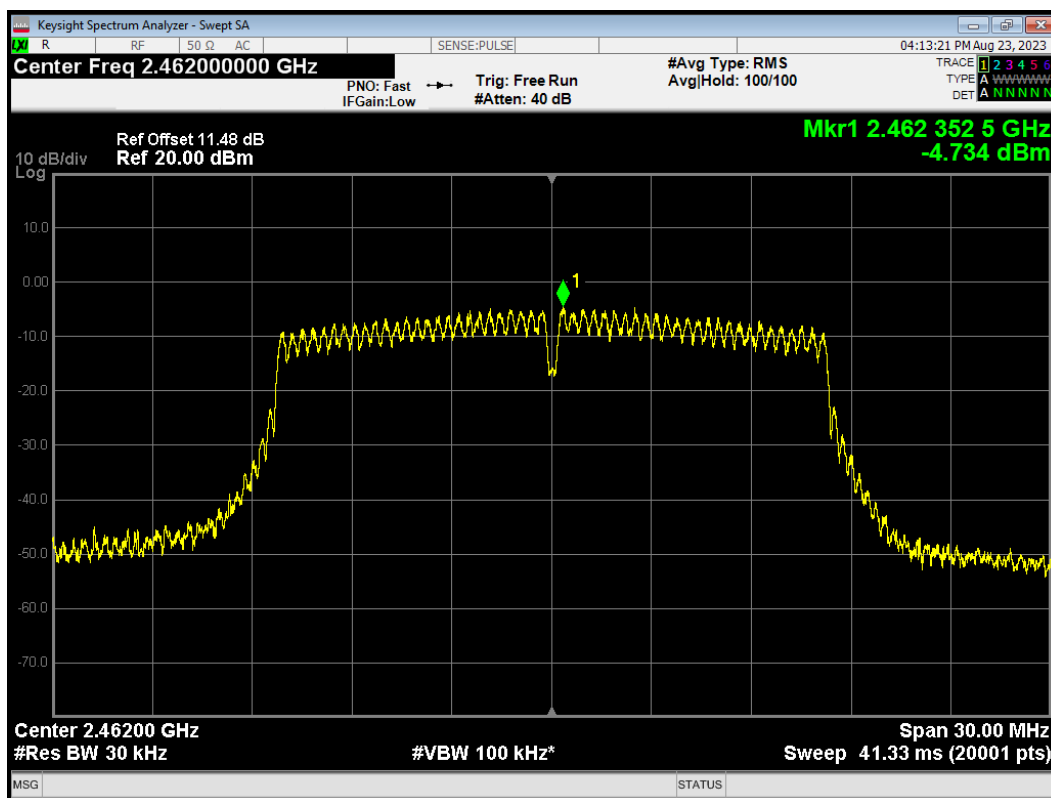
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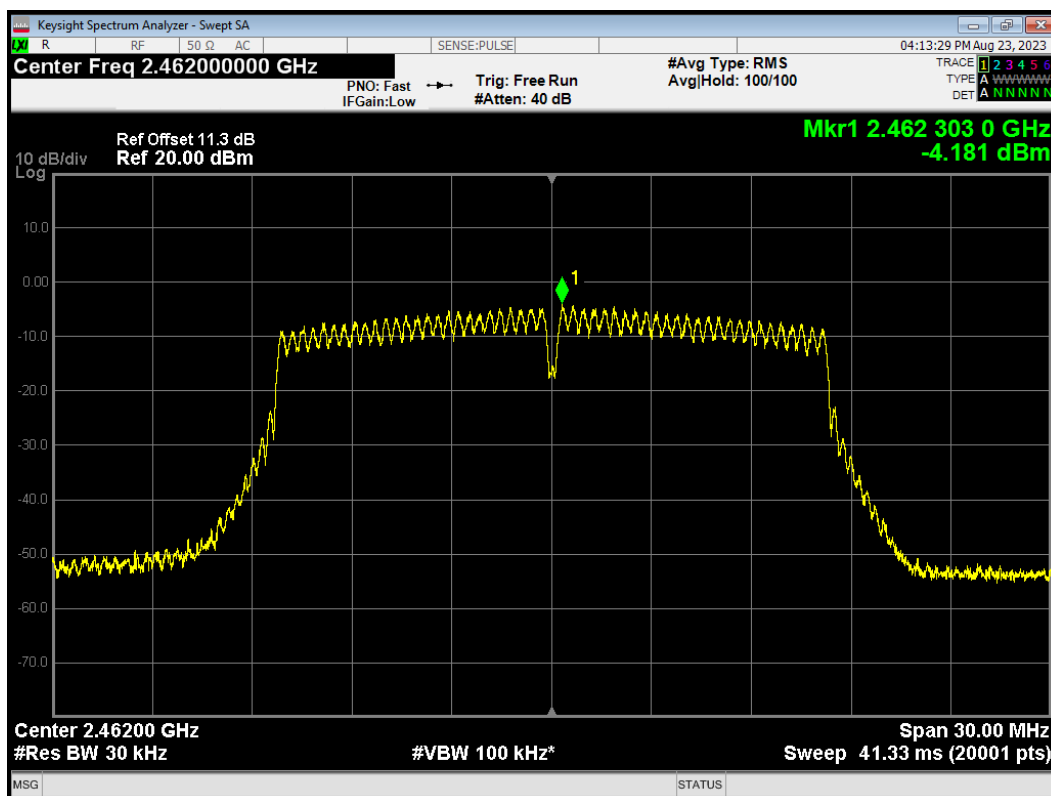
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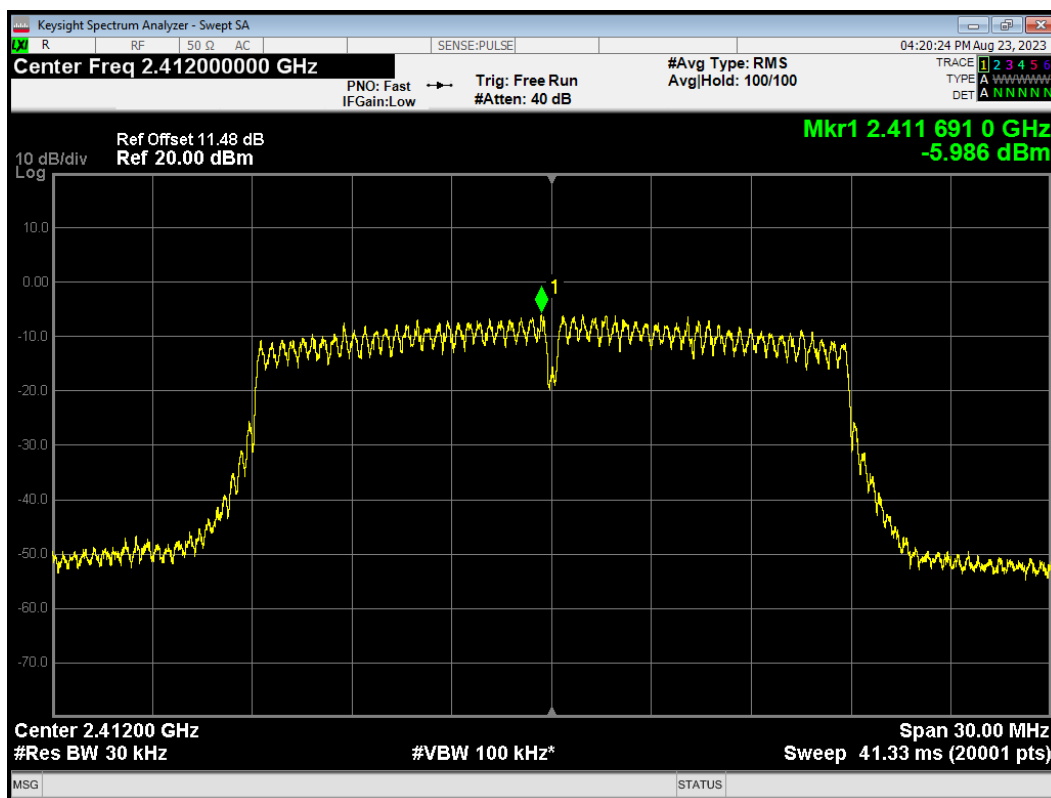
PSD 802.11g 2462MHz Ant2



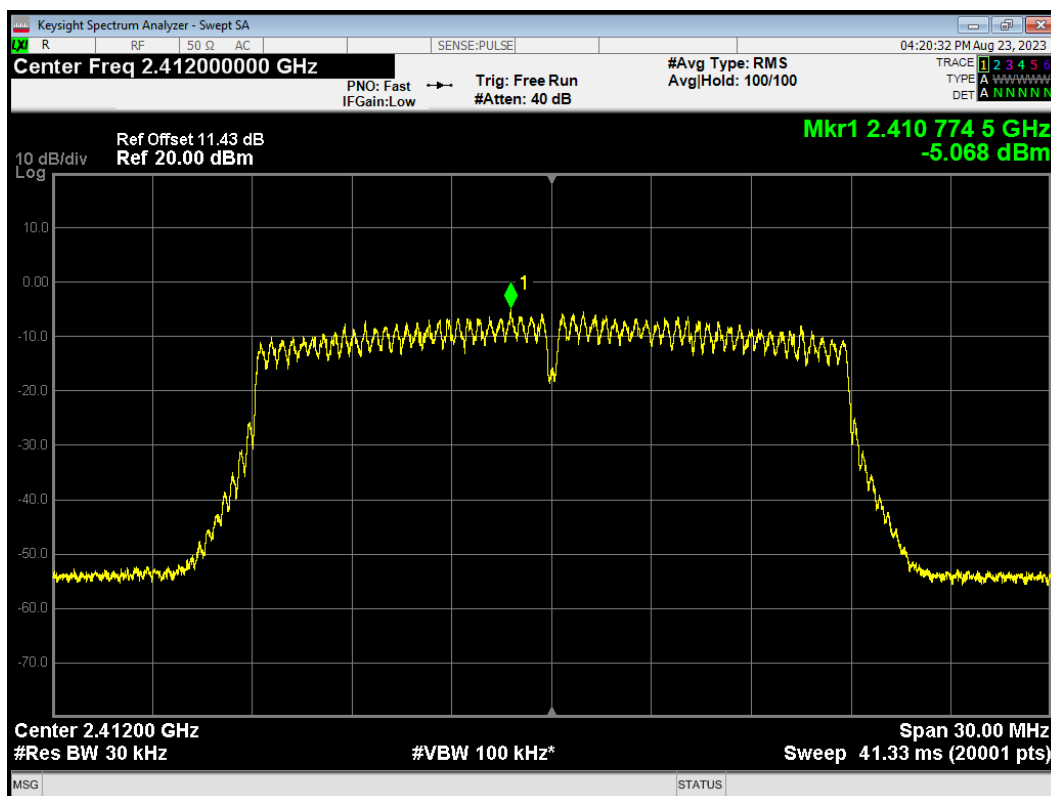
PSD 802.11g 2462MHz Ant3



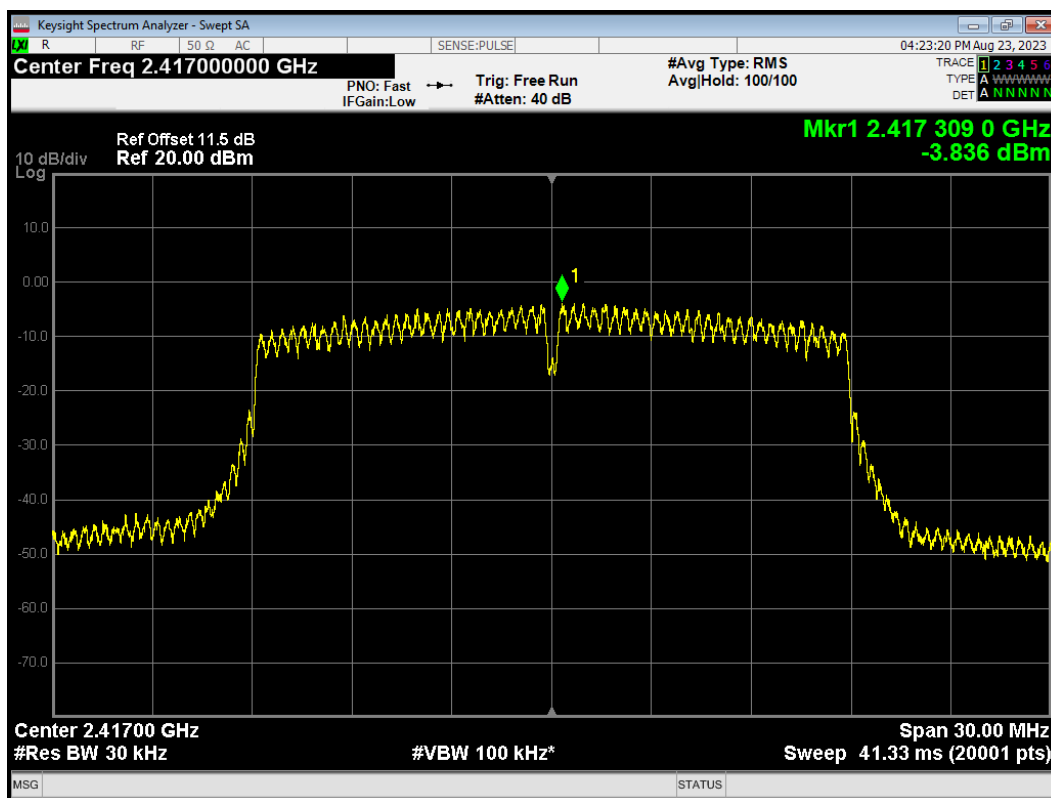
PSD 802.11n(HT20) 2412MHz Ant2



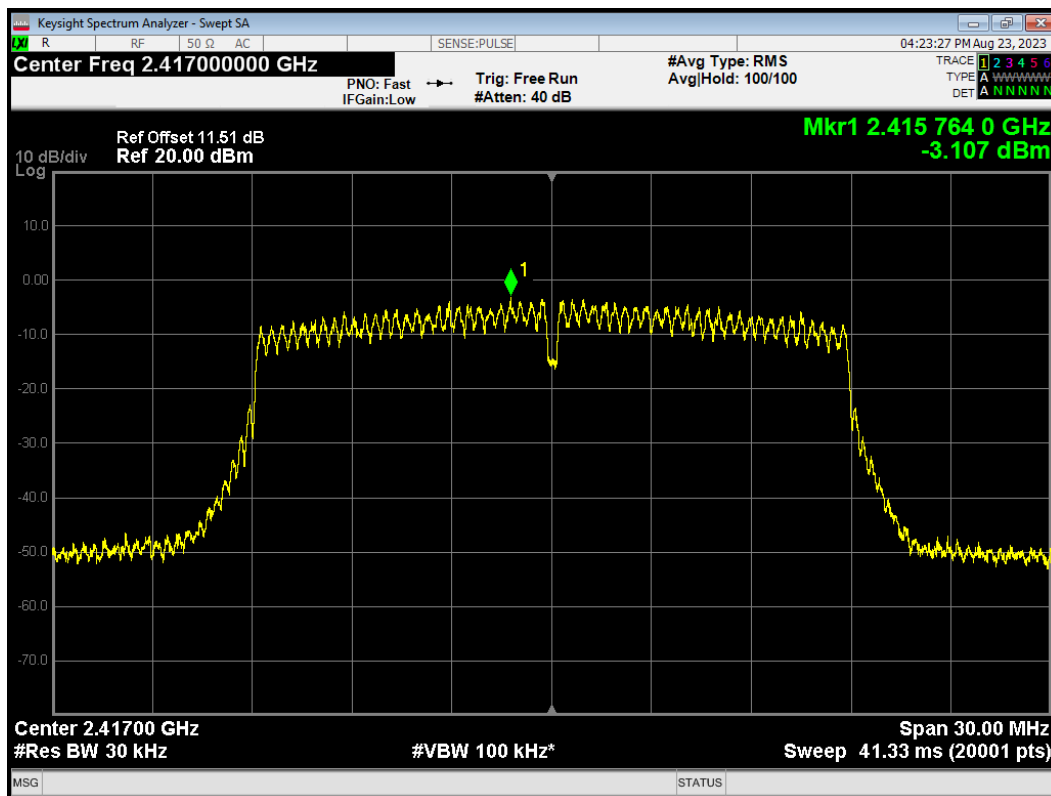
PSD 802.11n(HT20) 2412MHz Ant3



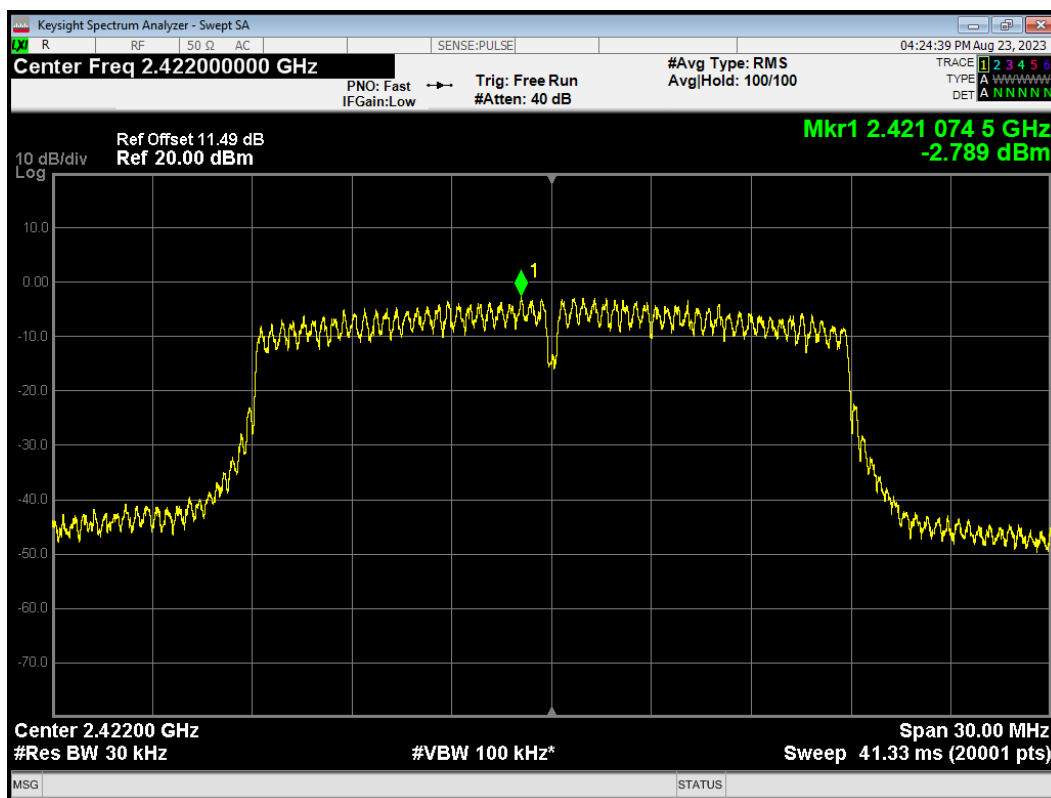
PSD 802.11n(HT20) 2417MHz Ant2



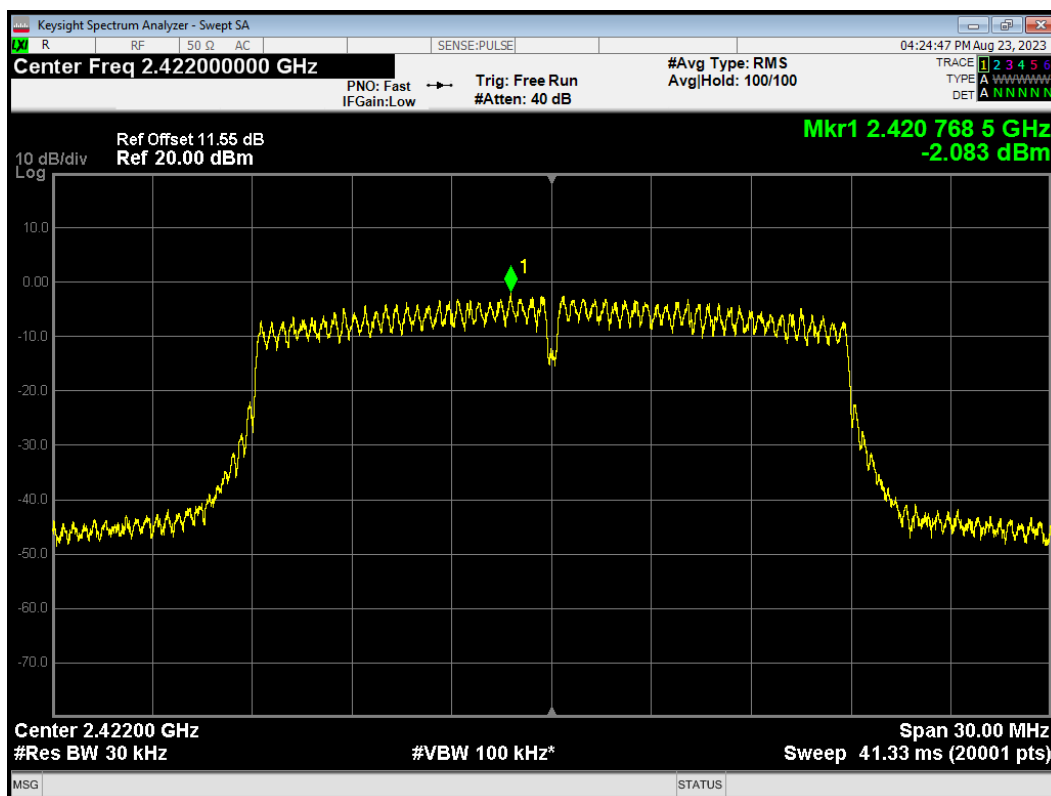
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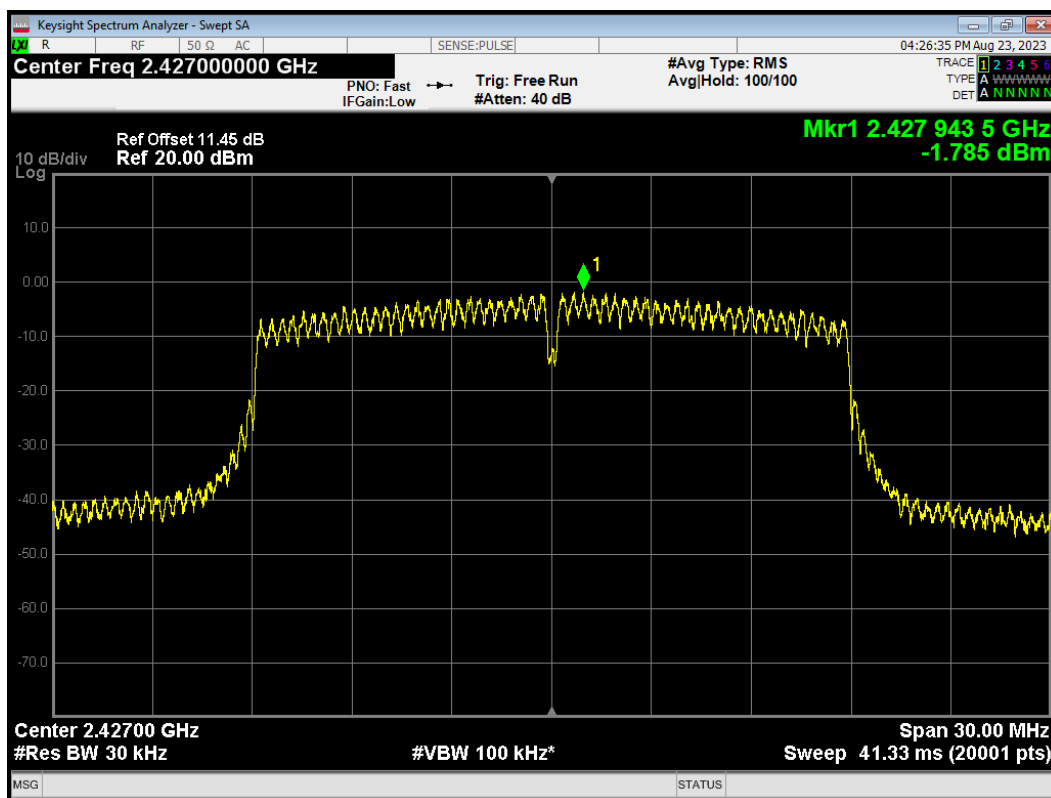
PSD 802.11n(HT20) 2422MHz Ant2



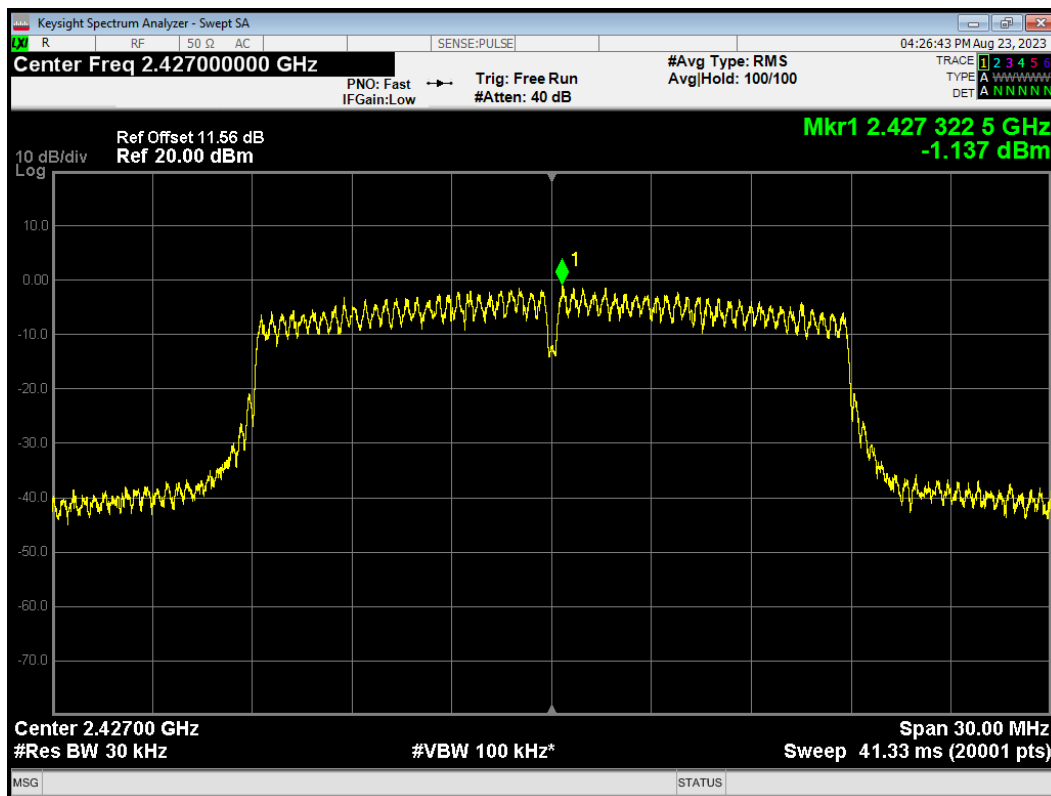
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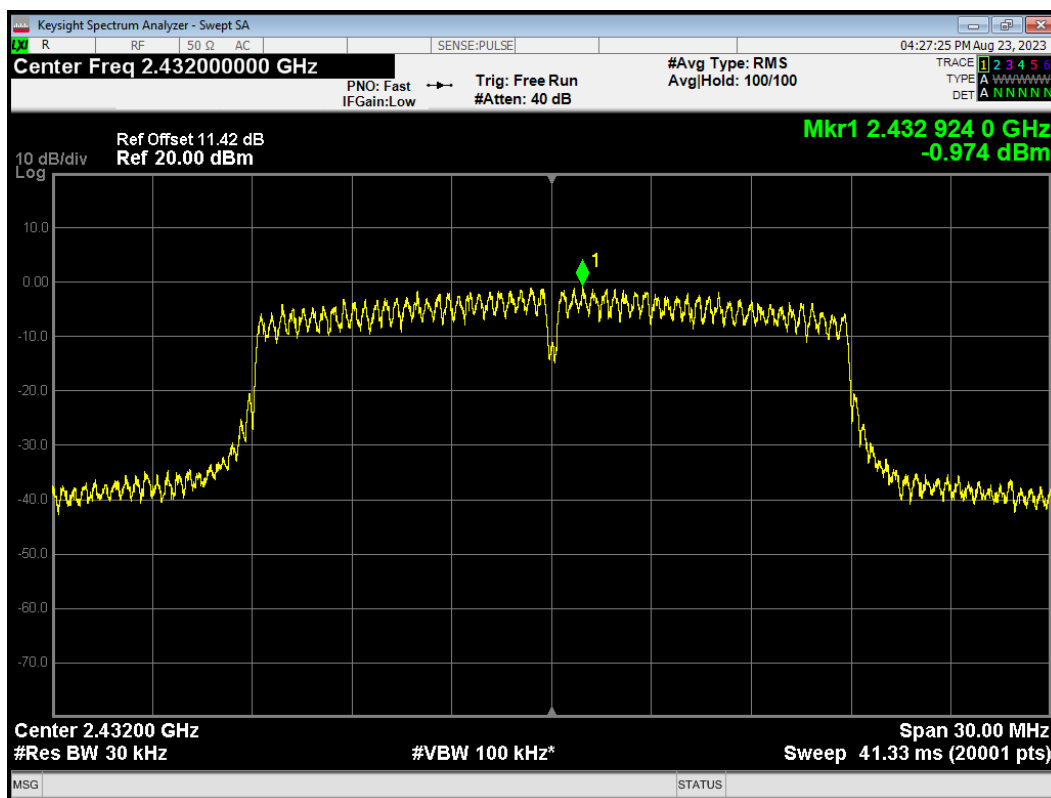
PSD 802.11n(HT20) 2427MHz Ant2



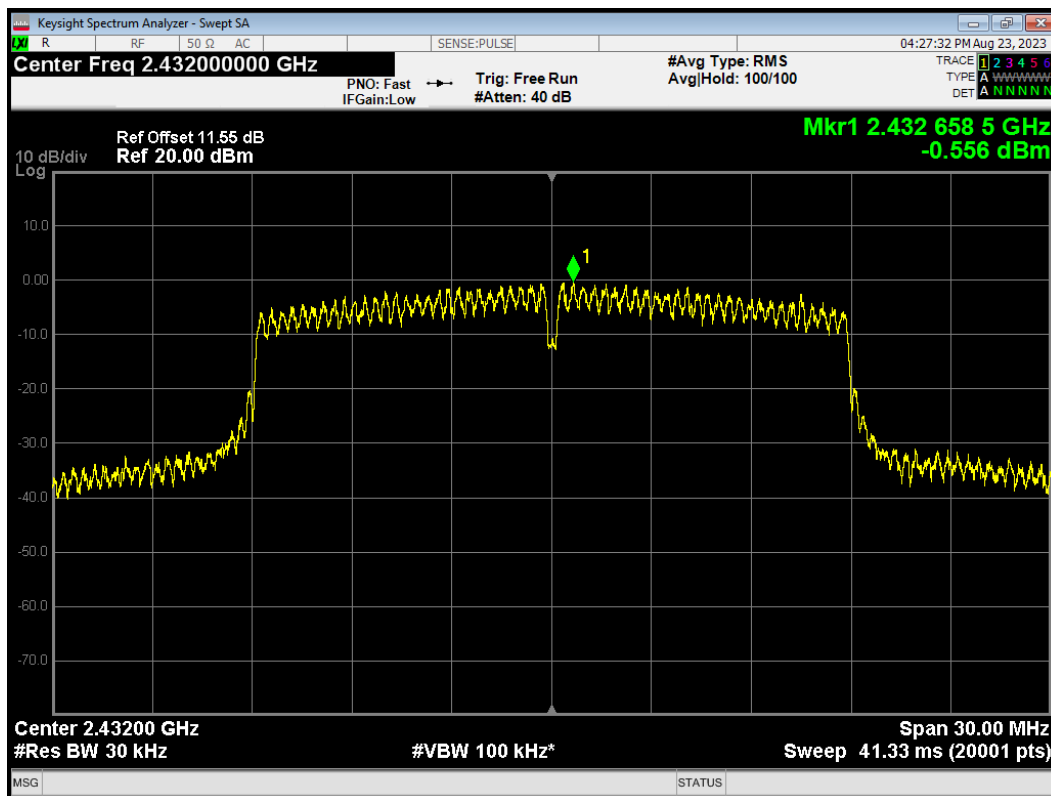
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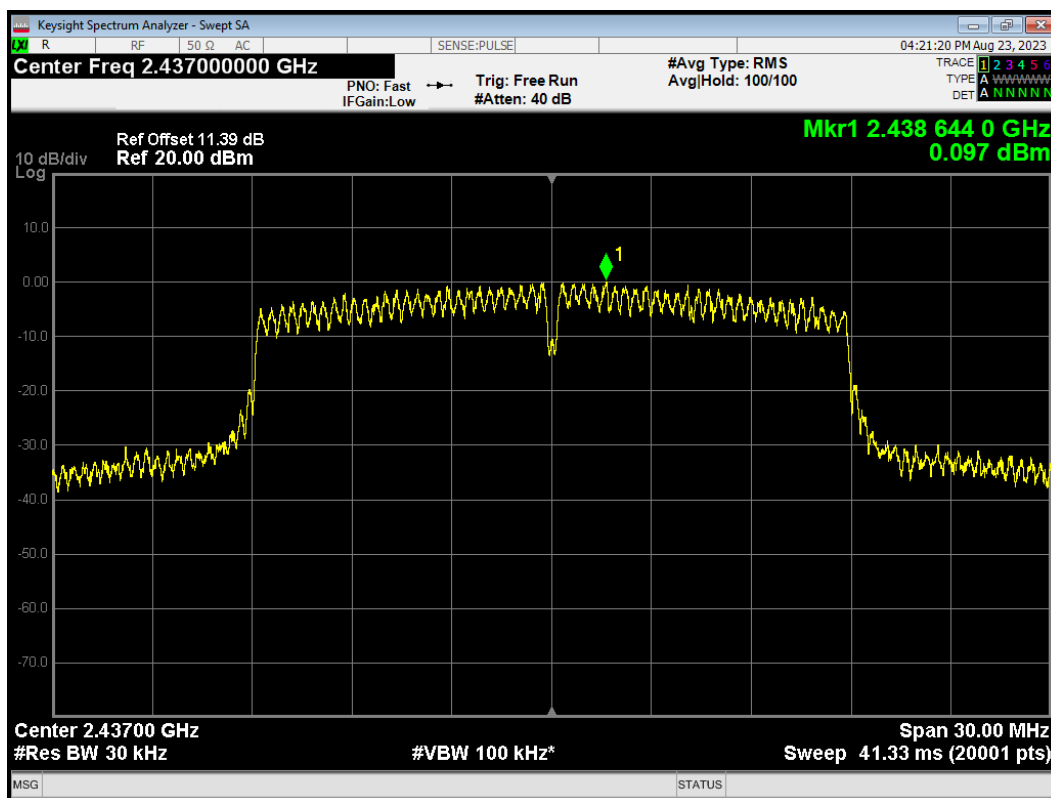
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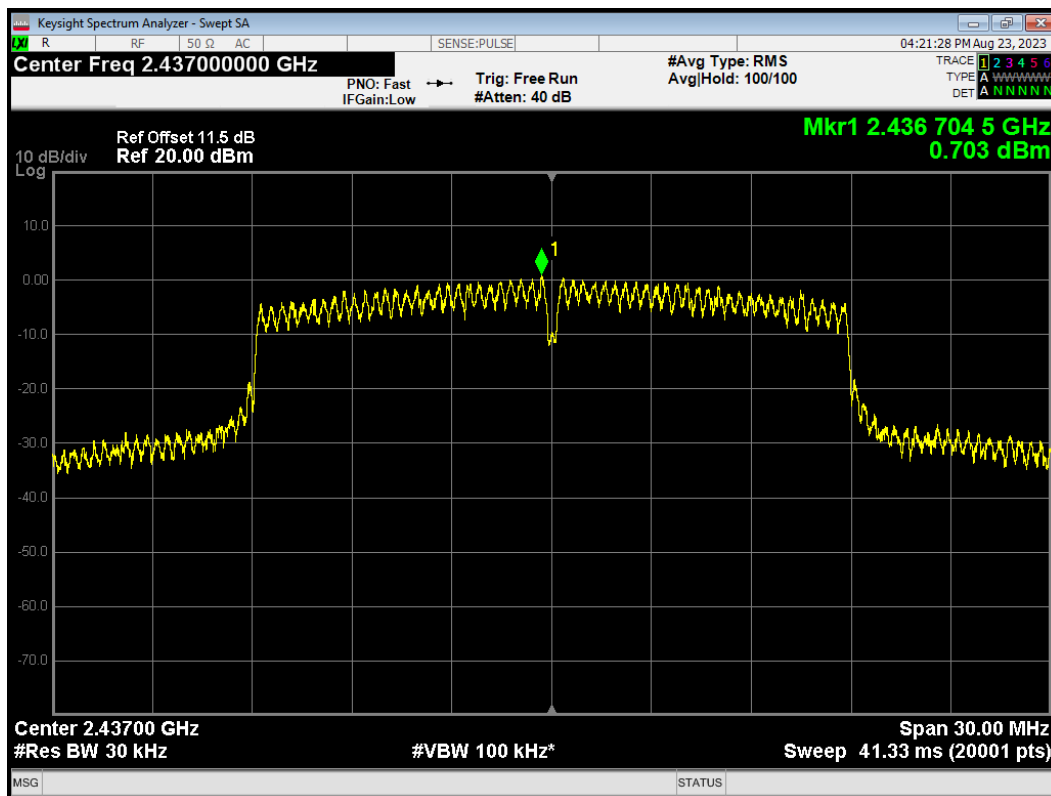
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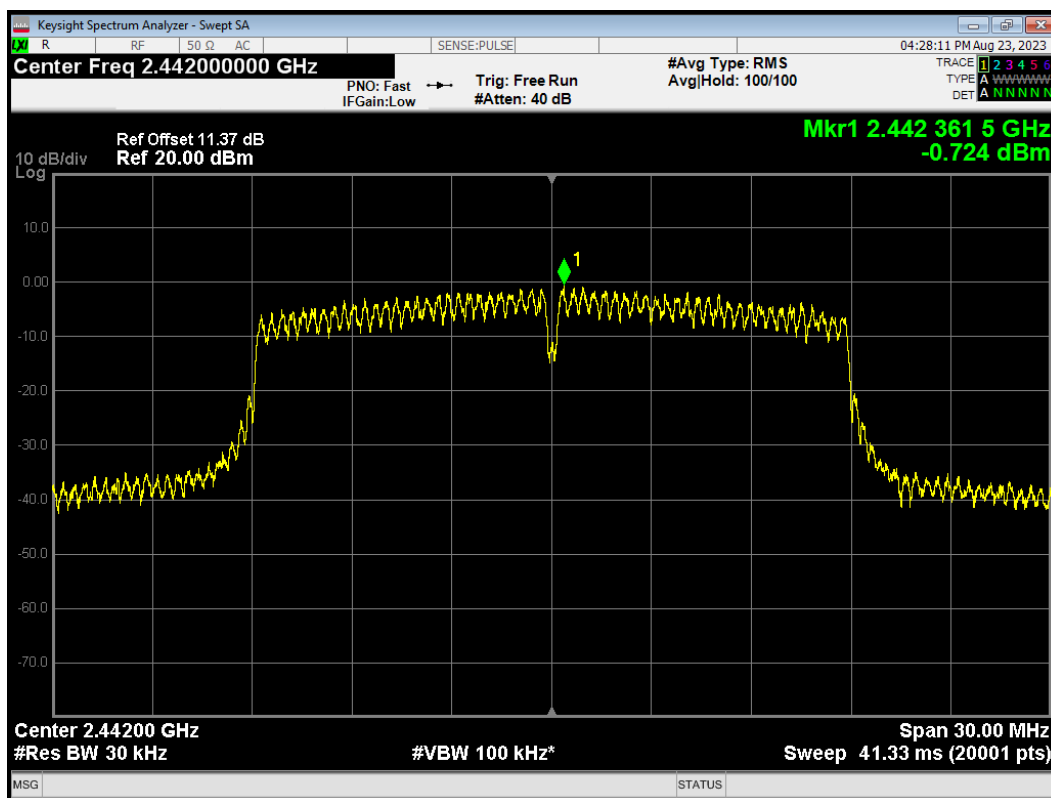
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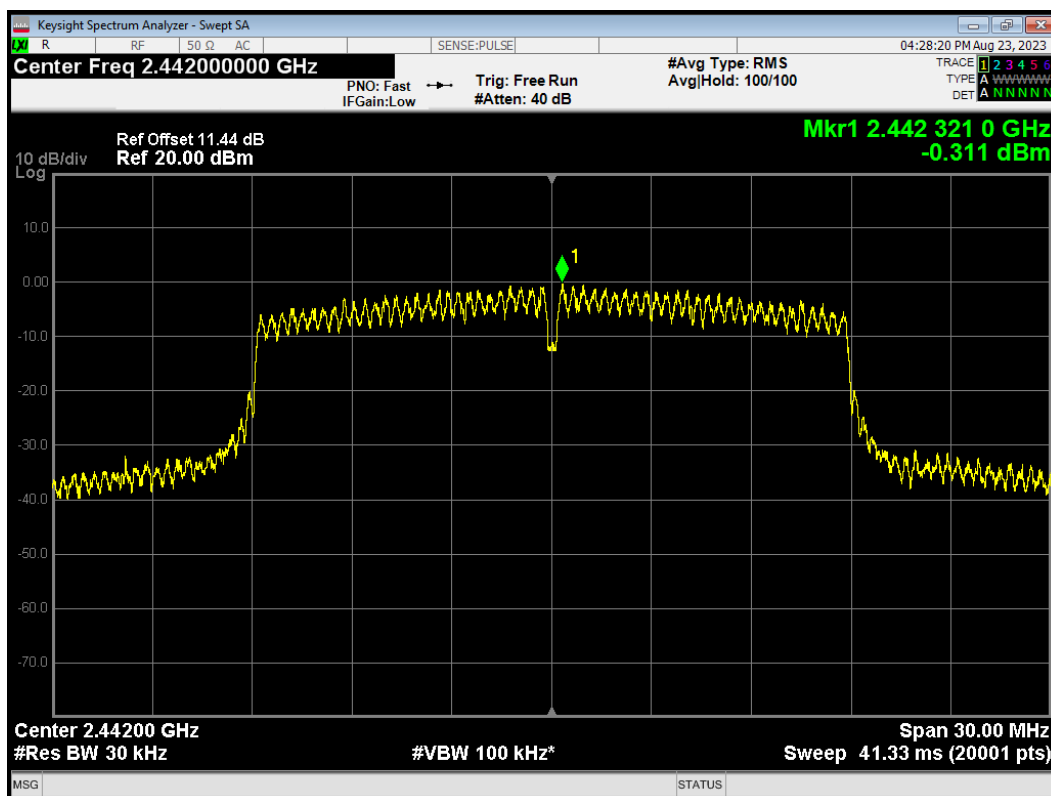
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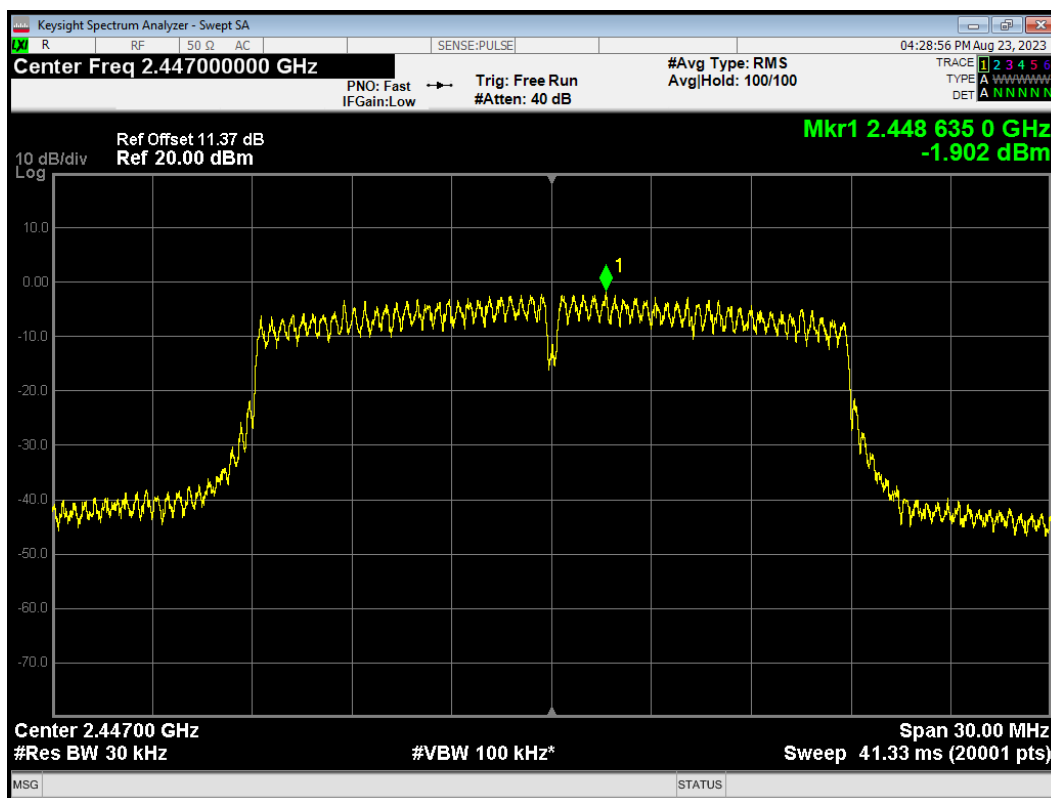
PSD 802.11n(HT20) 2442MHz Ant2



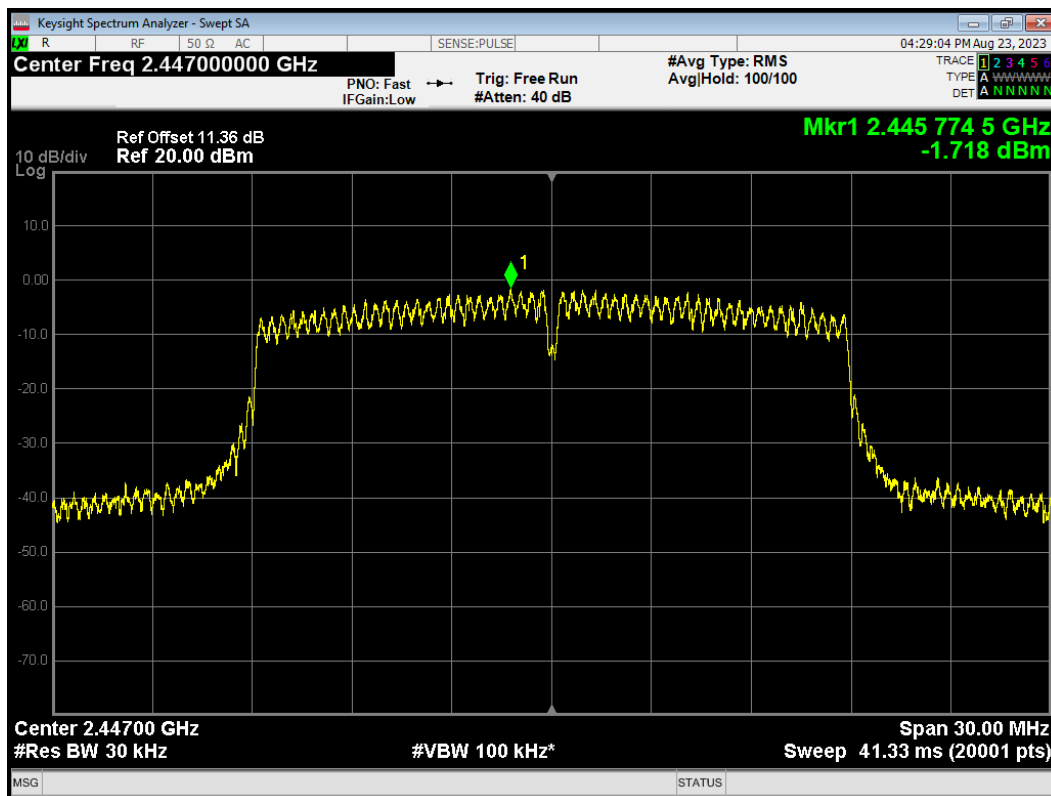
PSD 802.11n(HT20) 2442MHz Ant3



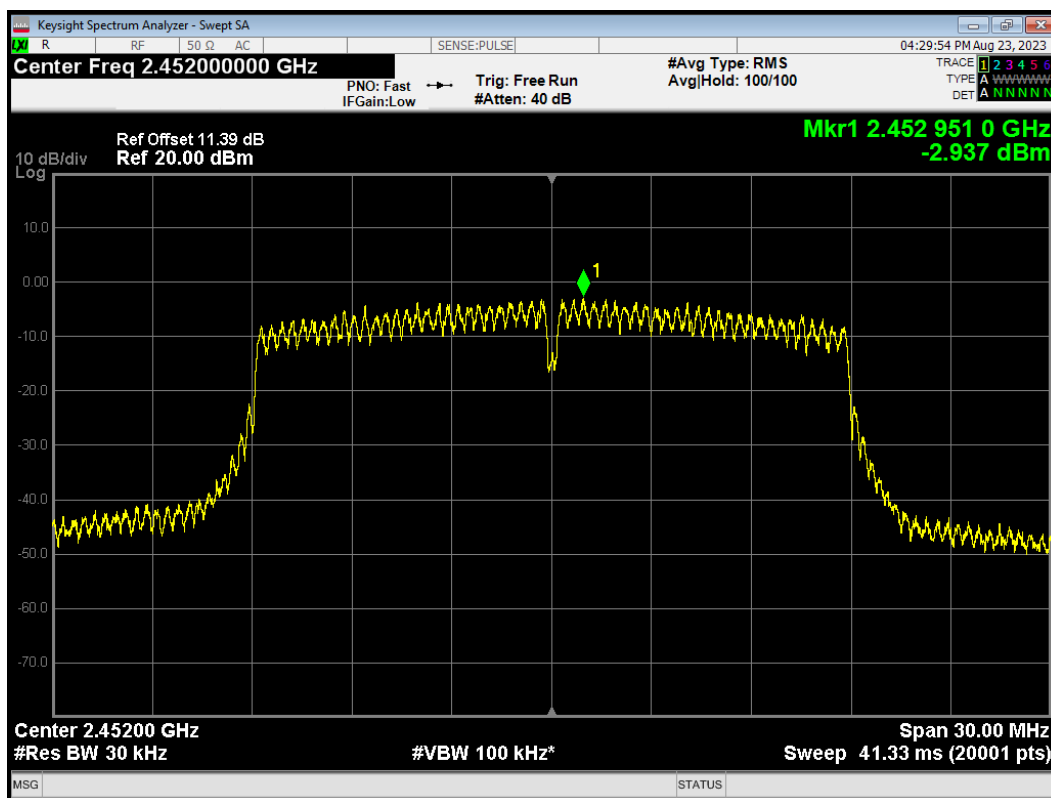
PSD 802.11n(HT20) 2447MHz Ant2



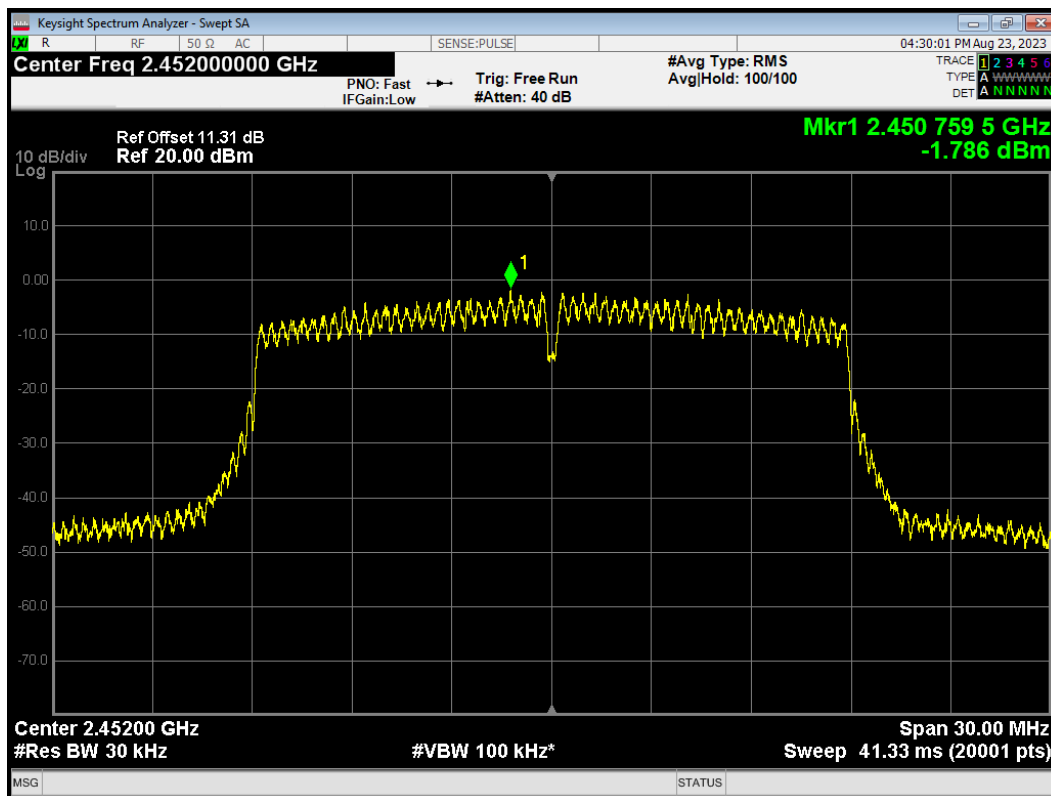
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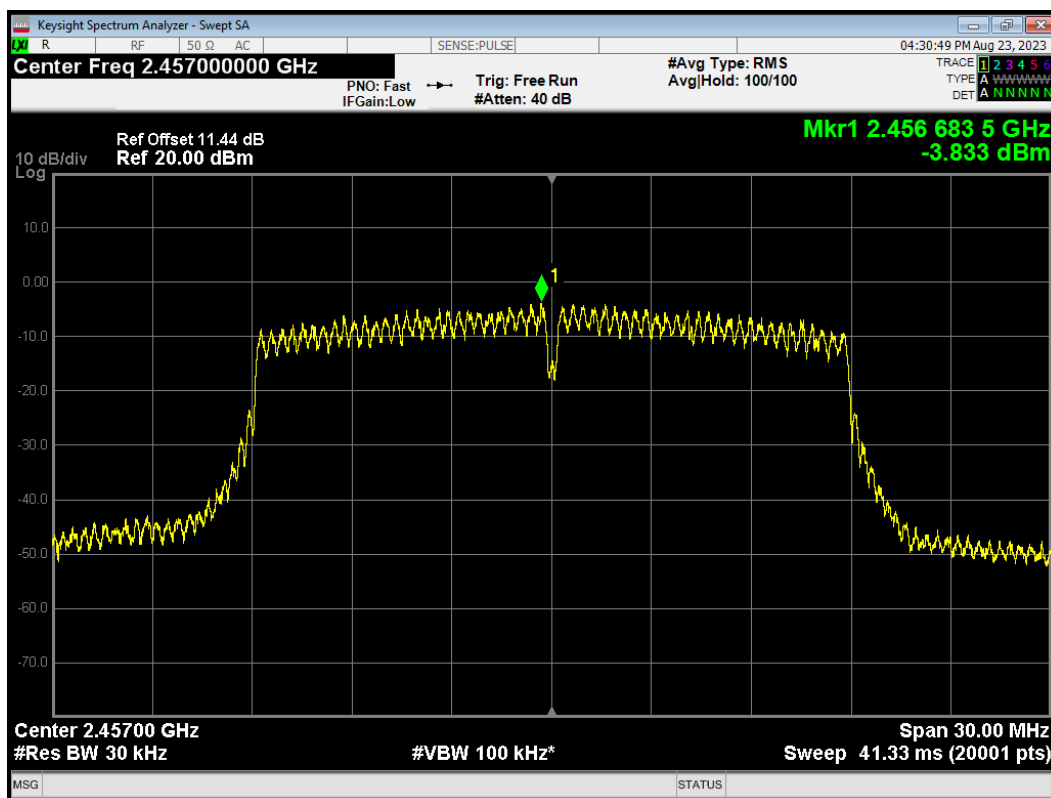
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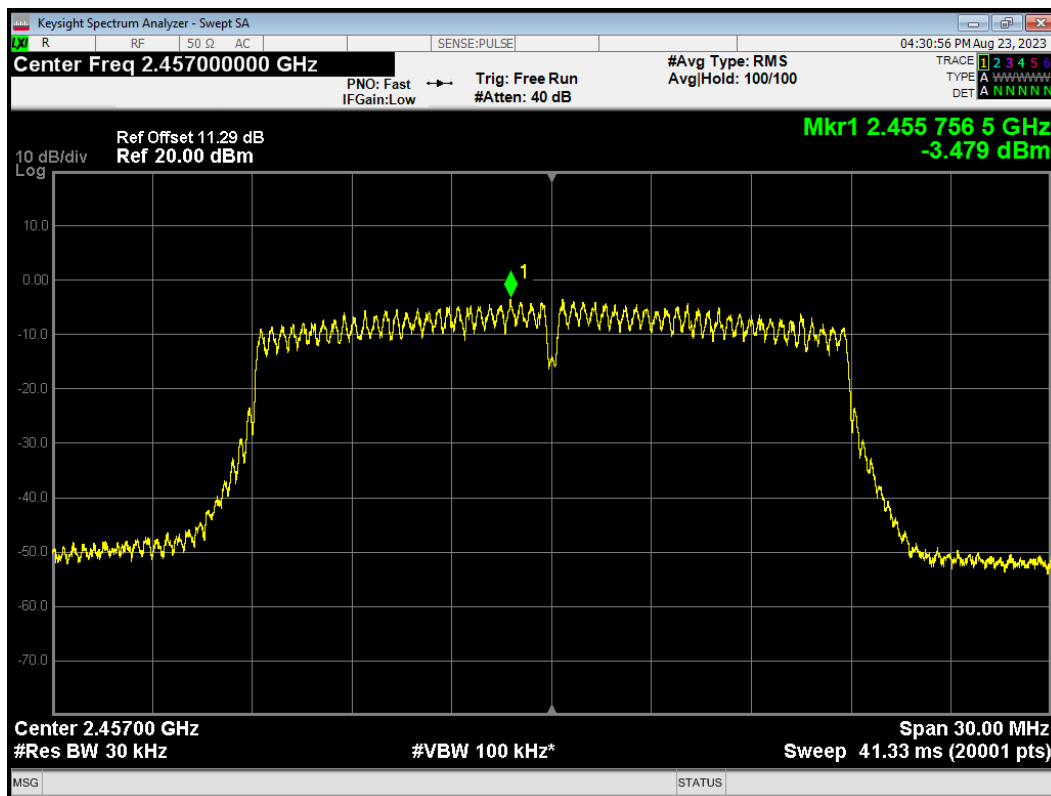
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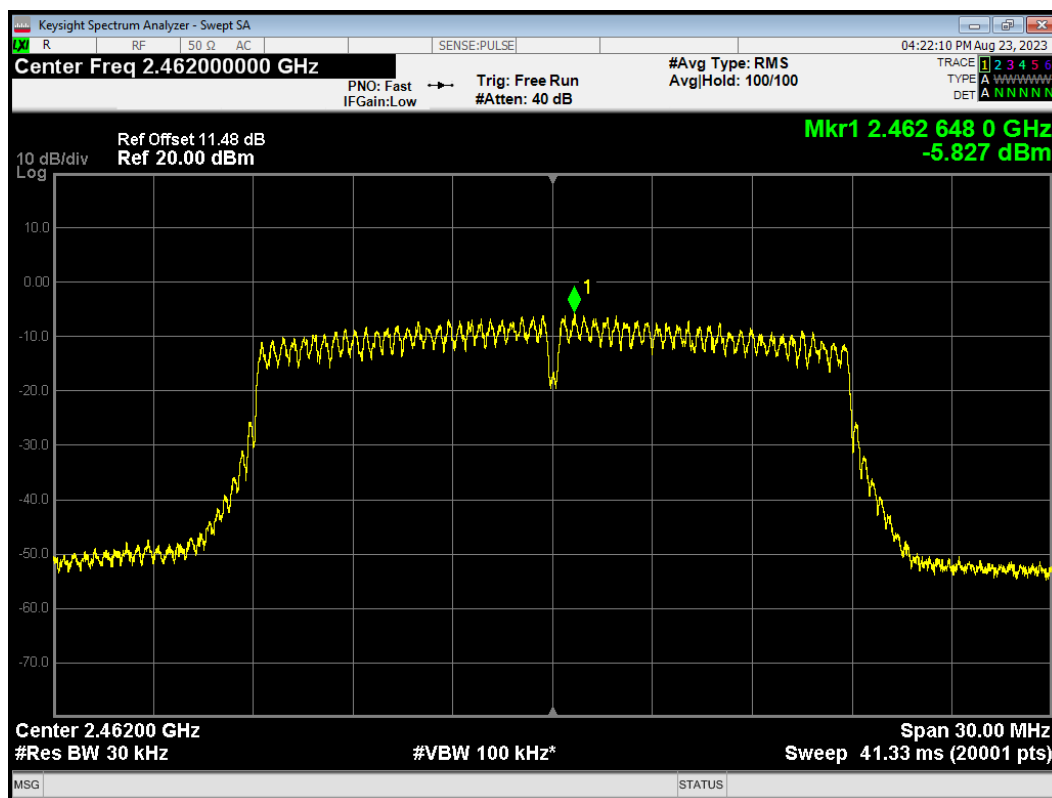
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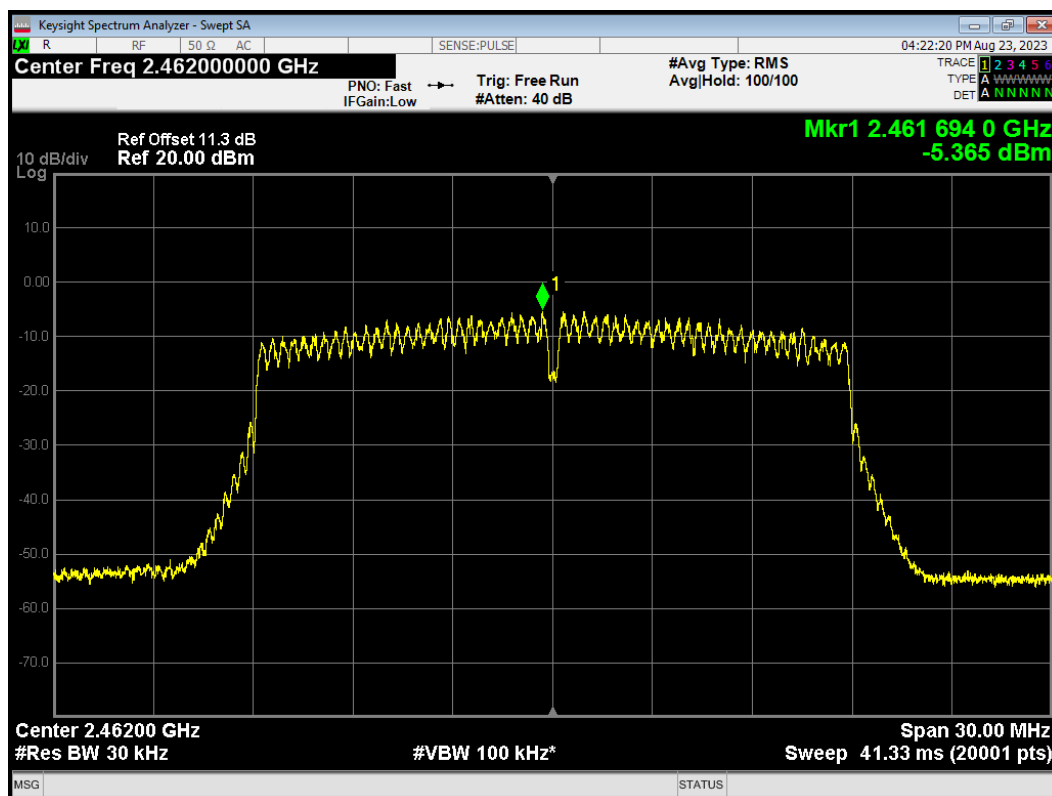
PSD 802.11n(HT20) 2457MHz Ant3



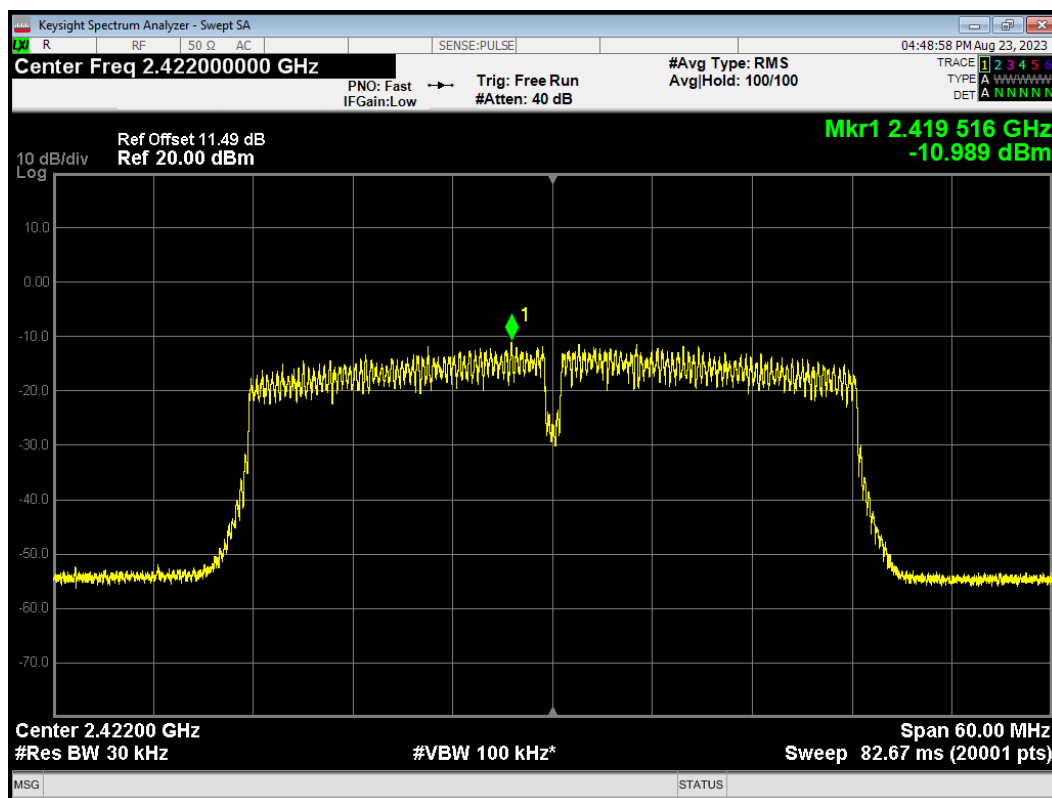
PSD 802.11n(HT20) 2462MHz Ant2



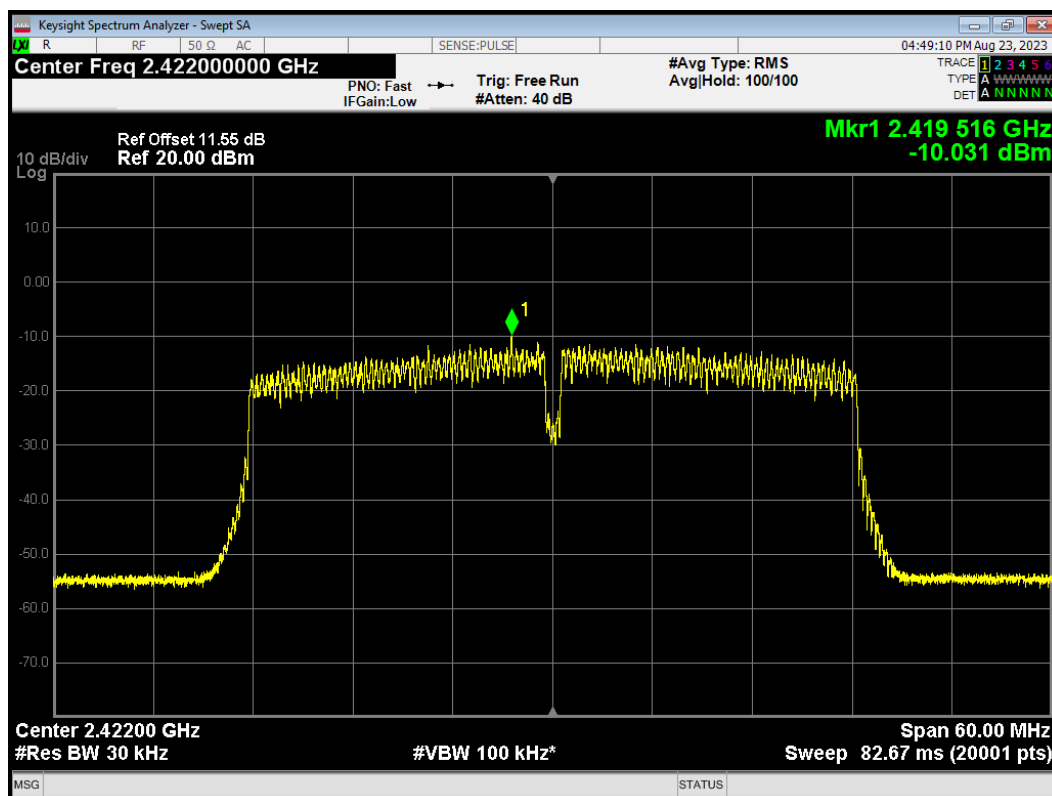
PSD 802.11n(HT20) 2462MHz Ant3



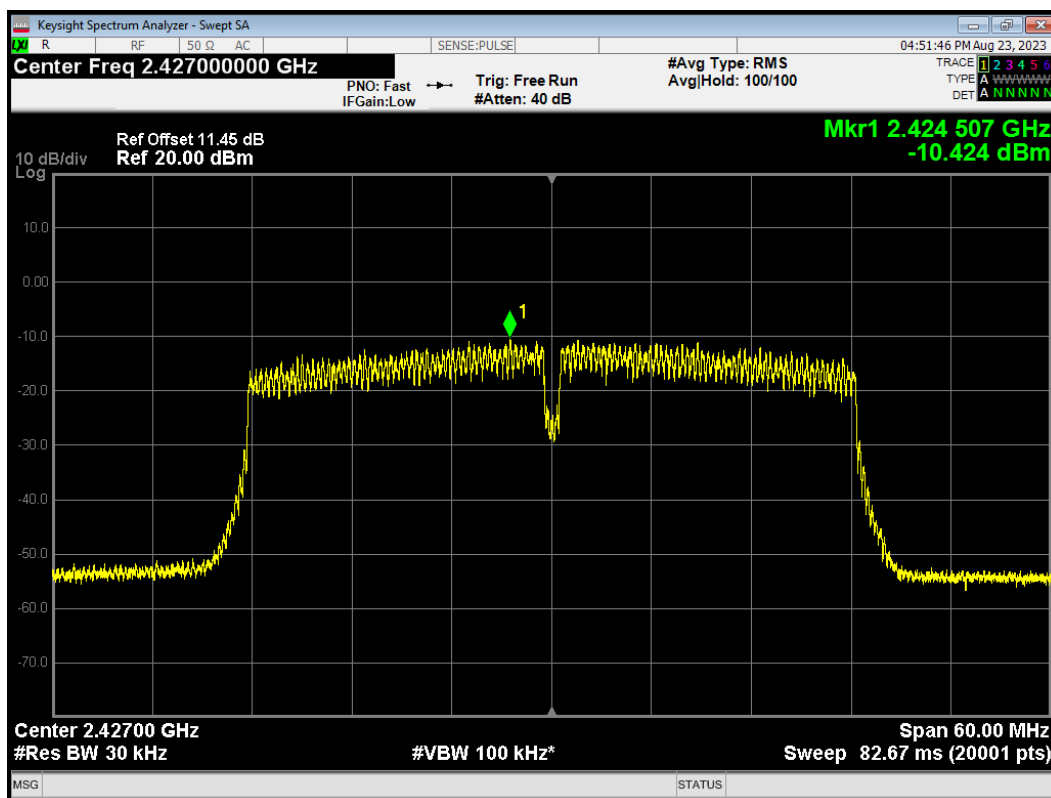
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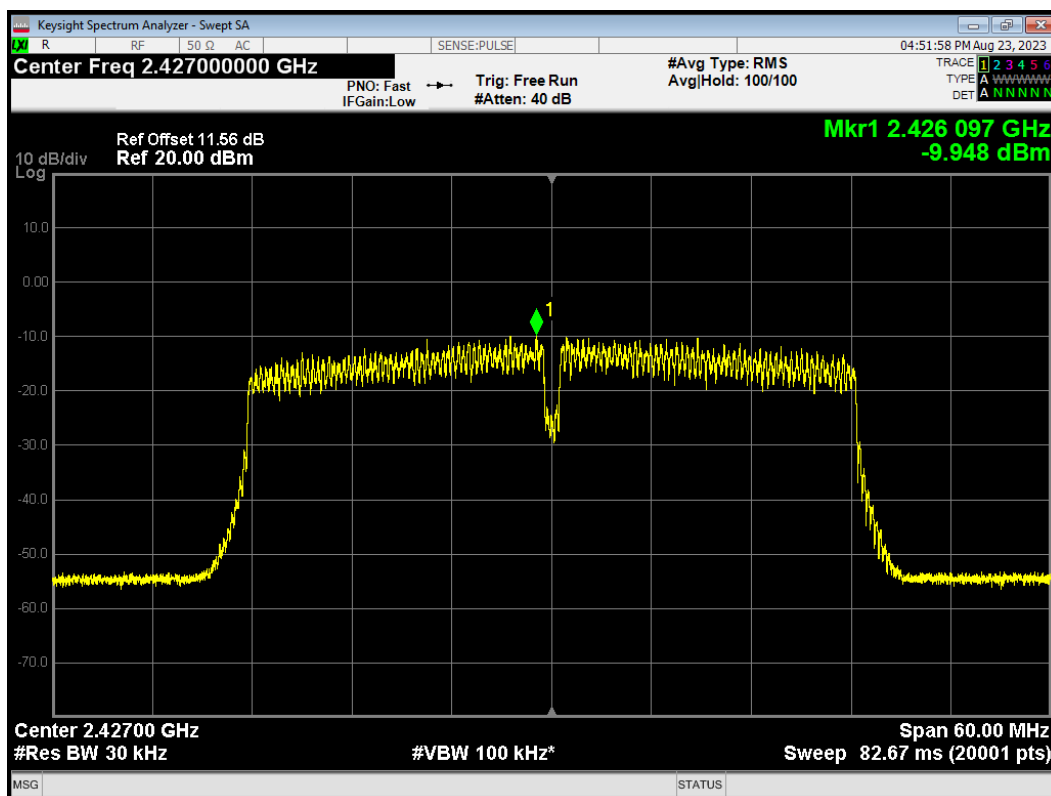
PSD 802.11n(HT40) 2422MHz Ant3



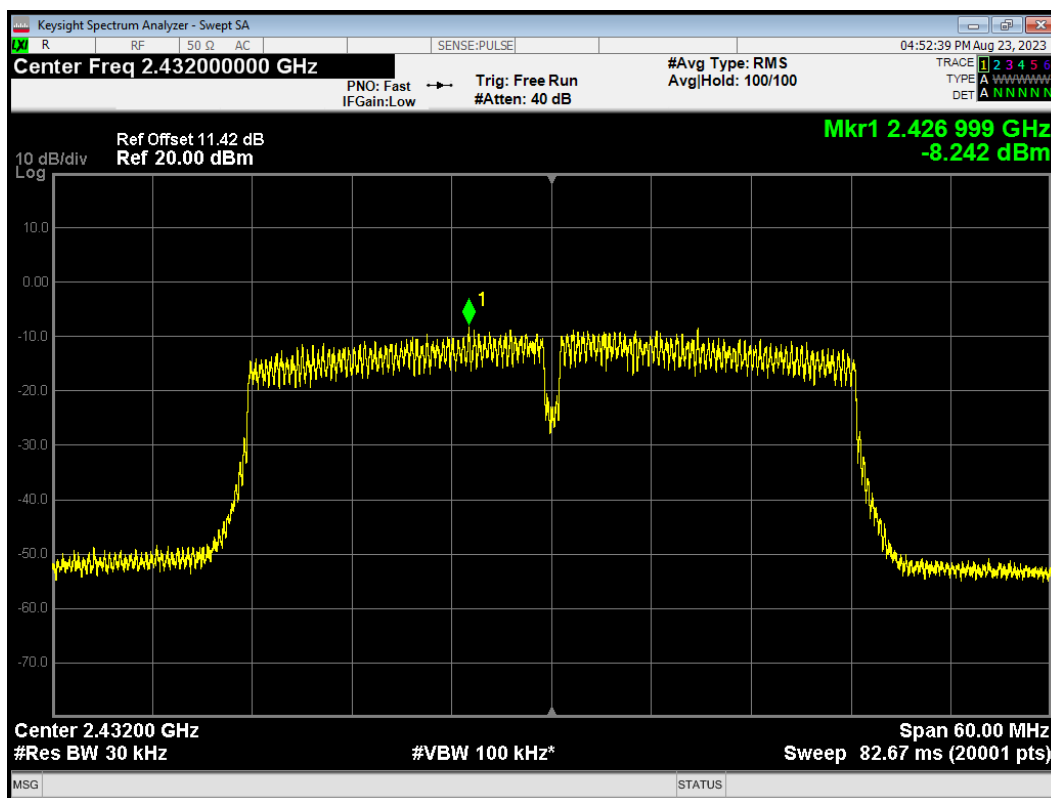
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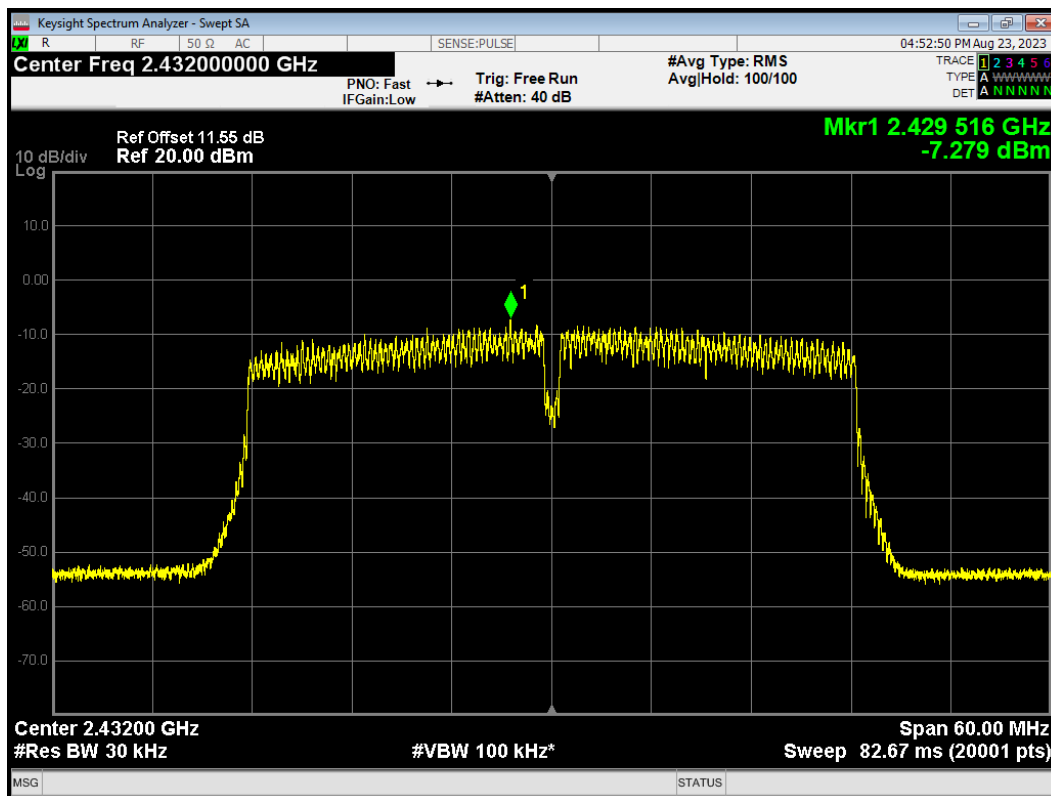
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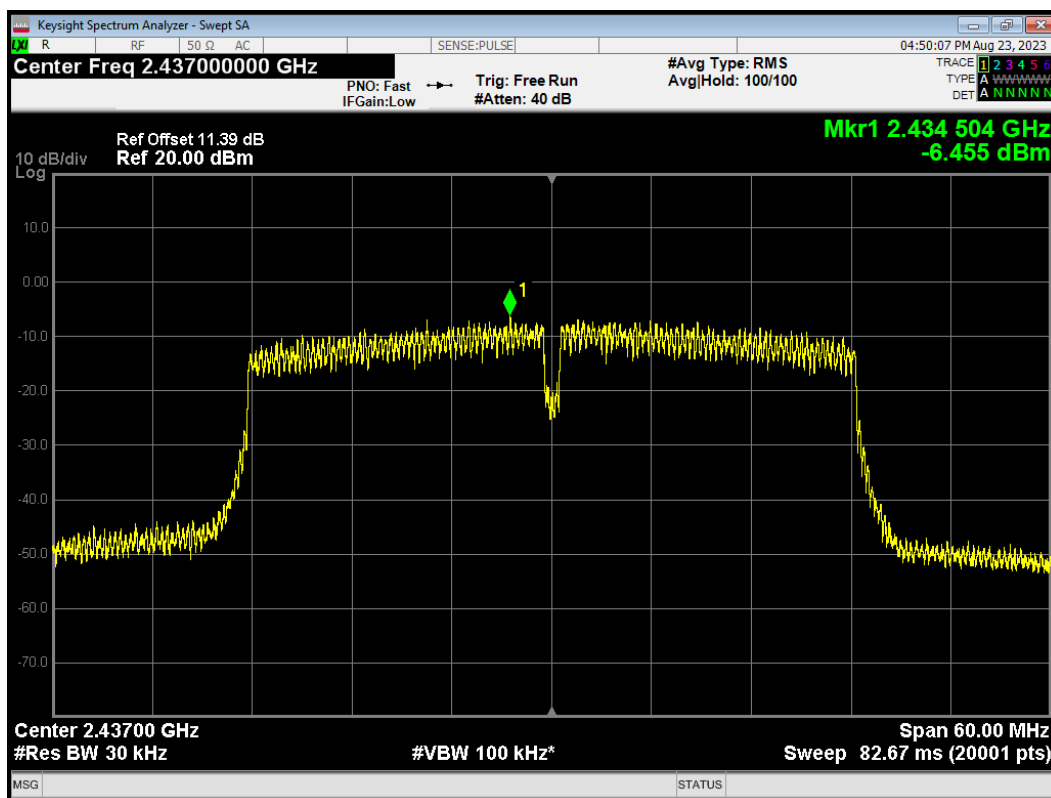
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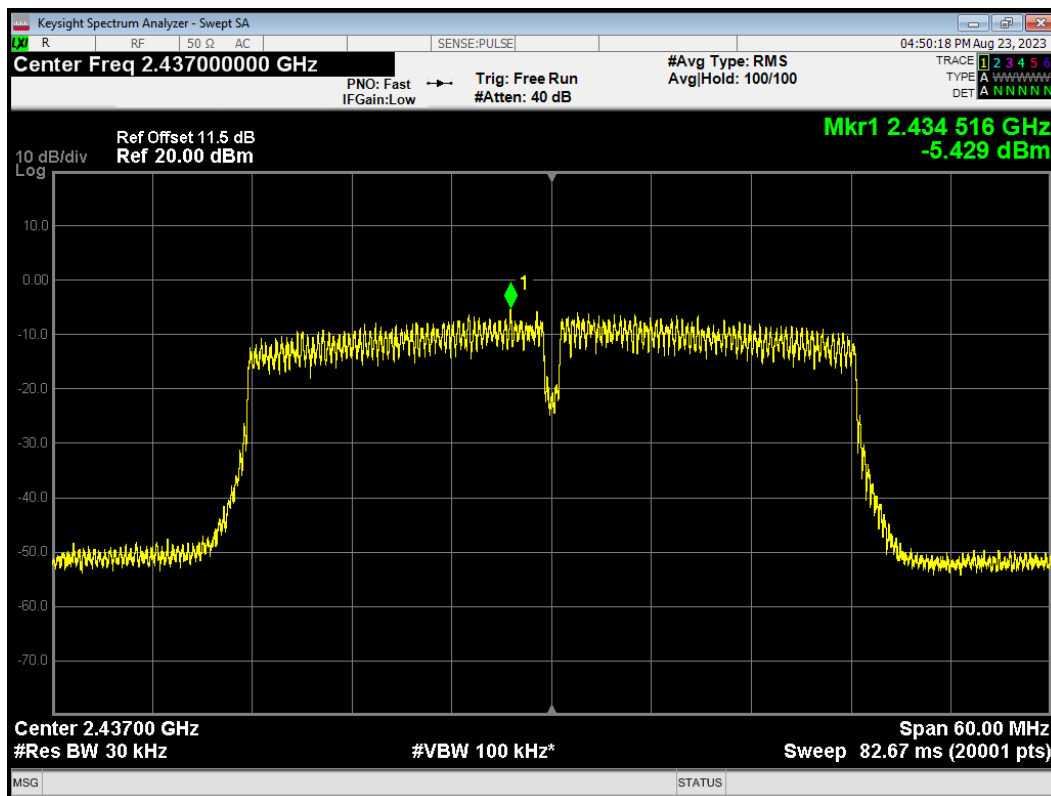
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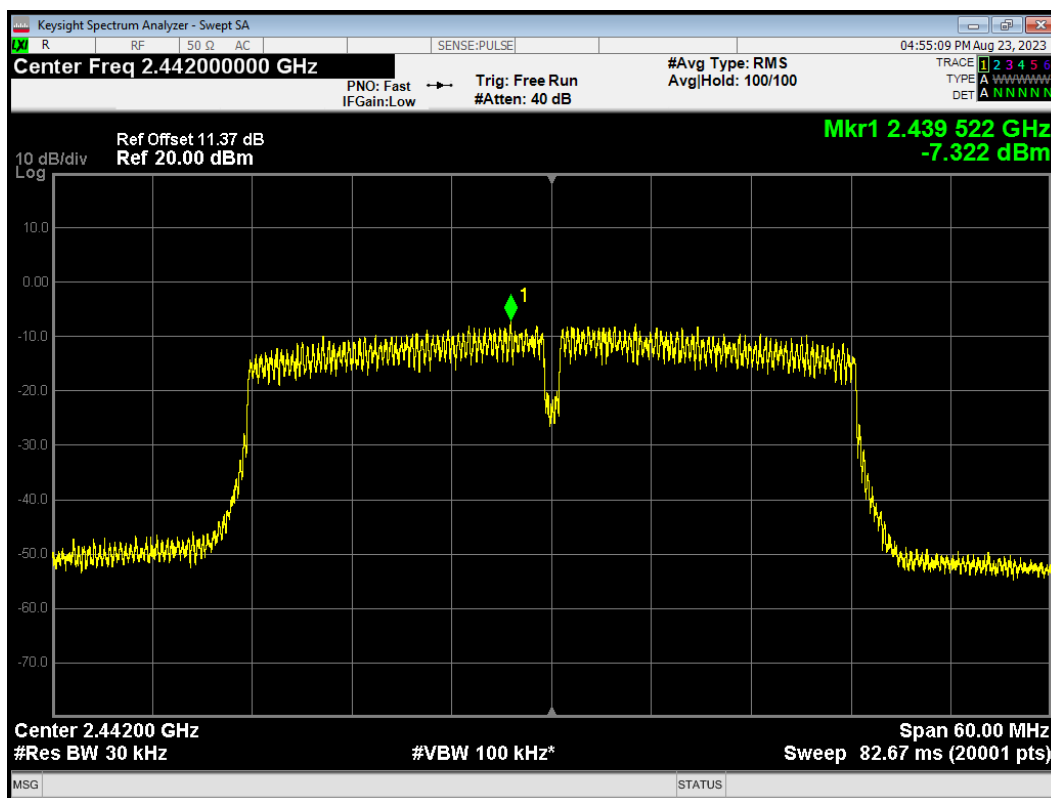
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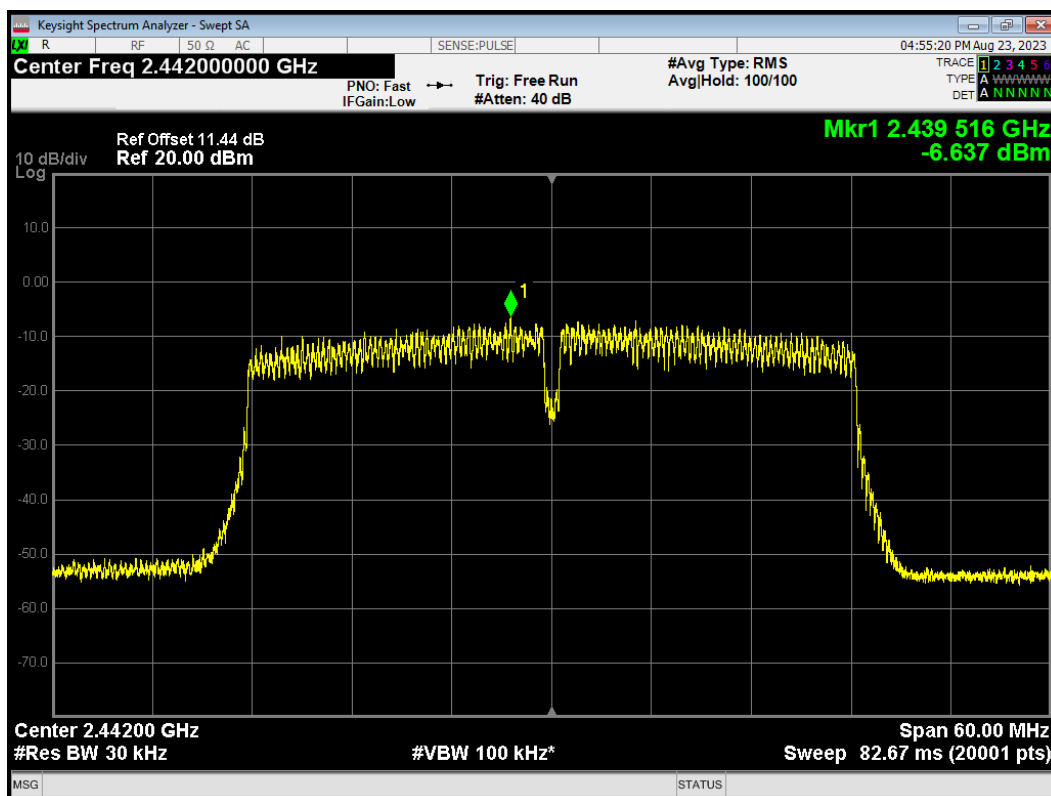
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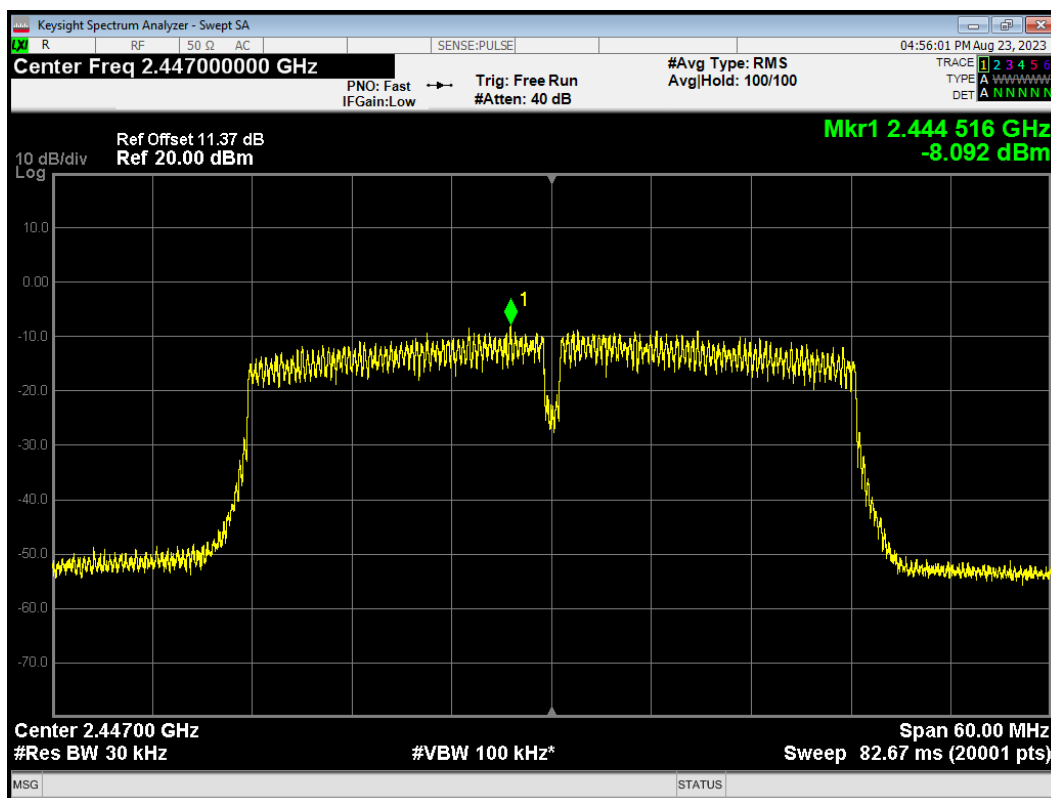
PSD 802.11n(HT40) 2442MHz Ant2



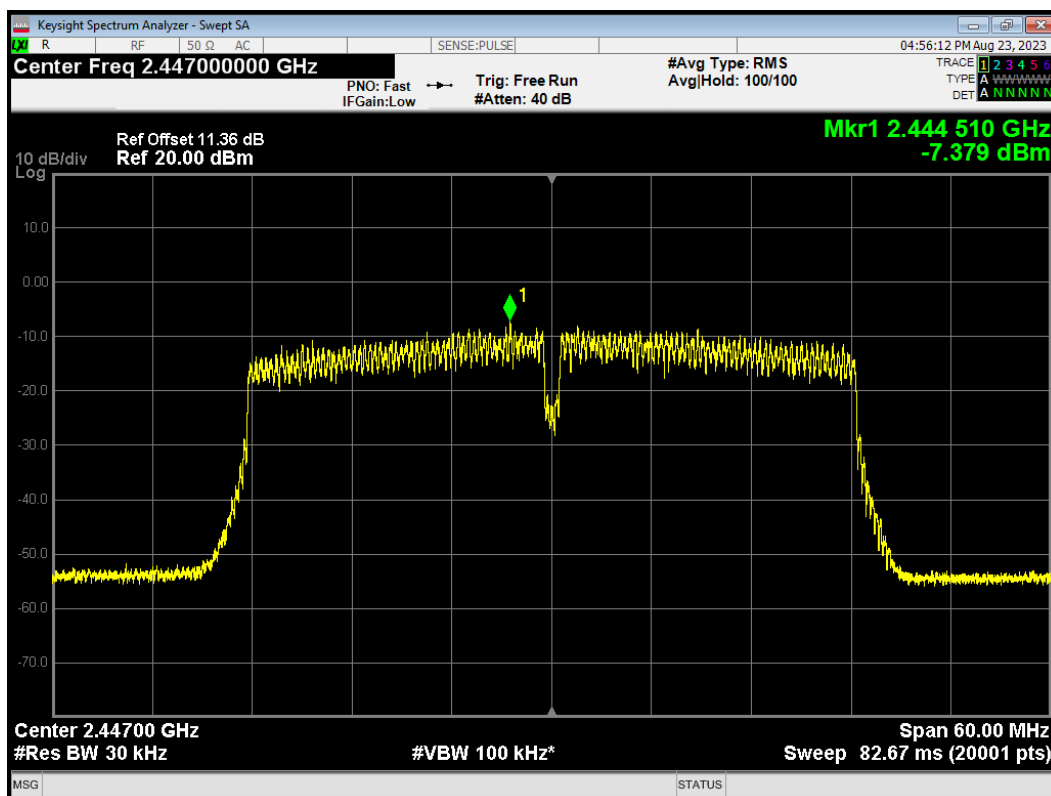
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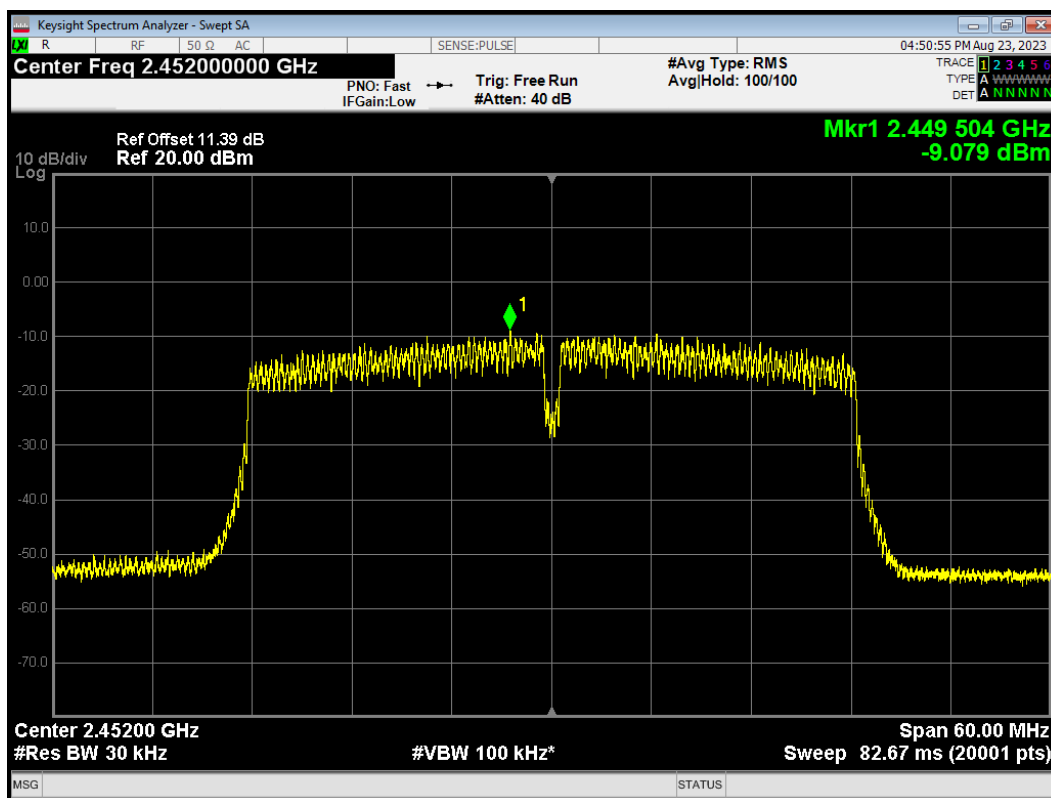
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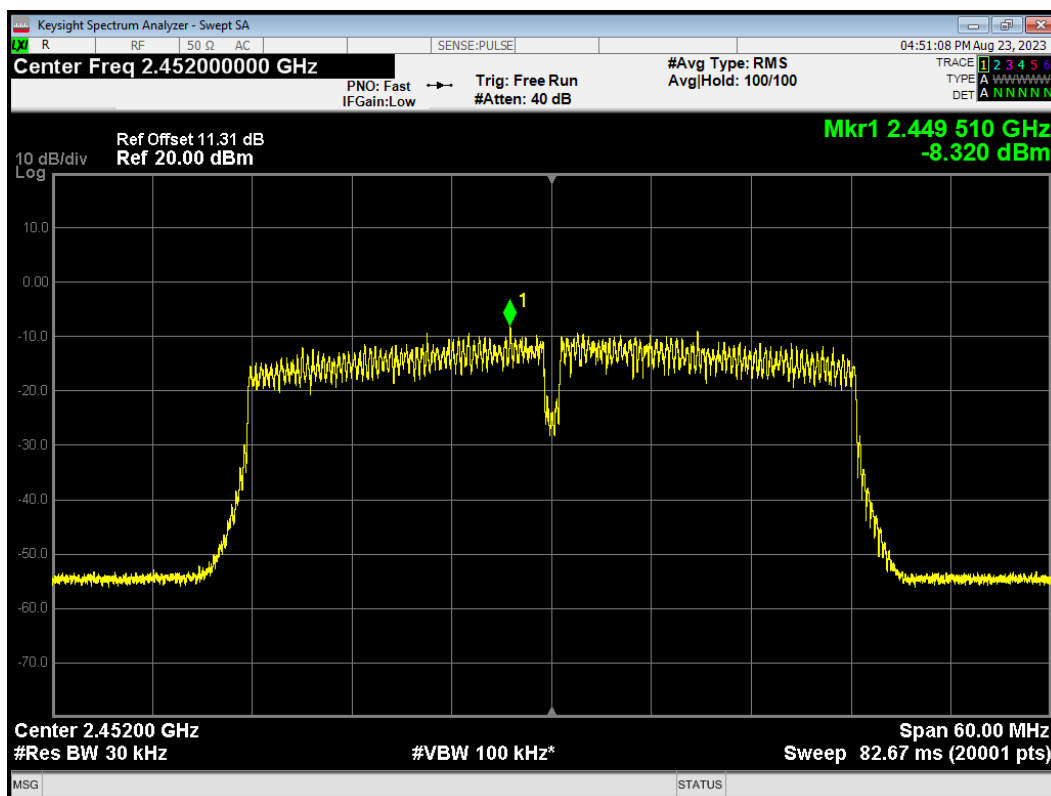
PSD 802.11n(HT40) 2447MHz Ant3



PSD 802.11n(HT40) 2452MHz Ant2



PSD 802.11n(HT40) 2452MHz Ant3



5.5. Spurious RF Conducted Emissions

Ambient Condition

Temperature	Relative humidity
20°C ~ 25°C	45% ~ 50%

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test Setup



Limits

Rule Part 15.247(d) pacifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. "

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	12.030	-17.97
	2417	11.700	-18.30
	2422	12.890	-17.11
	2427	12.480	-17.52
	2432	15.790	-14.21
	2437	15.860	-14.14
	2442	14.760	-15.24
	2447	14.990	-15.01
	2452	14.030	-15.97
	2457	12.240	-17.76
	2462	13.000	-17.00

802.11g	2412	8.220	-21.78
	2417	9.540	-20.46
	2422	10.210	-19.79
	2427	11.830	-18.17
	2432	11.850	-18.15
	2437	13.960	-16.04
	2442	13.440	-16.56
	2447	11.350	-18.65
	2452	11.170	-18.83
	2457	8.960	-21.04
	2462	8.670	-21.33
802.11n HT20	2412	8.200	-21.80
	2417	9.660	-20.34
	2422	11.020	-18.98
	2427	11.710	-18.29
	2432	12.900	-17.10
	2437	14.020	-15.98
	2442	11.130	-18.87
	2447	11.740	-18.26
	2452	11.390	-18.61
	2457	9.430	-20.57
	2462	8.160	-21.84
802.11n HT40	2422	2.530	-27.47
	2427	3.200	-26.80
	2432	4.810	-25.19
	2437	7.490	-22.51
	2442	6.470	-23.53
	2447	5.150	-24.85
	2452	4.280	-25.72
802.11ax HE20	2412	8.070	-21.93
	2417	9.150	-20.85
	2422	11.130	-18.87
	2427	11.690	-18.31
	2432	12.130	-17.87
	2437	13.090	-16.91
	2442	11.750	-18.25
	2447	11.550	-18.45
	2452	10.880	-19.12
	2457	8.710	-21.29
	2462	8.470	-21.53
802.11ax HE40	2422	1.960	-28.04
	2427	2.910	-27.09
	2432	5.290	-24.71

	2437	7.180	-22.82
	2442	6.160	-23.84
	2447	4.680	-25.32
	2452	4.150	-25.85

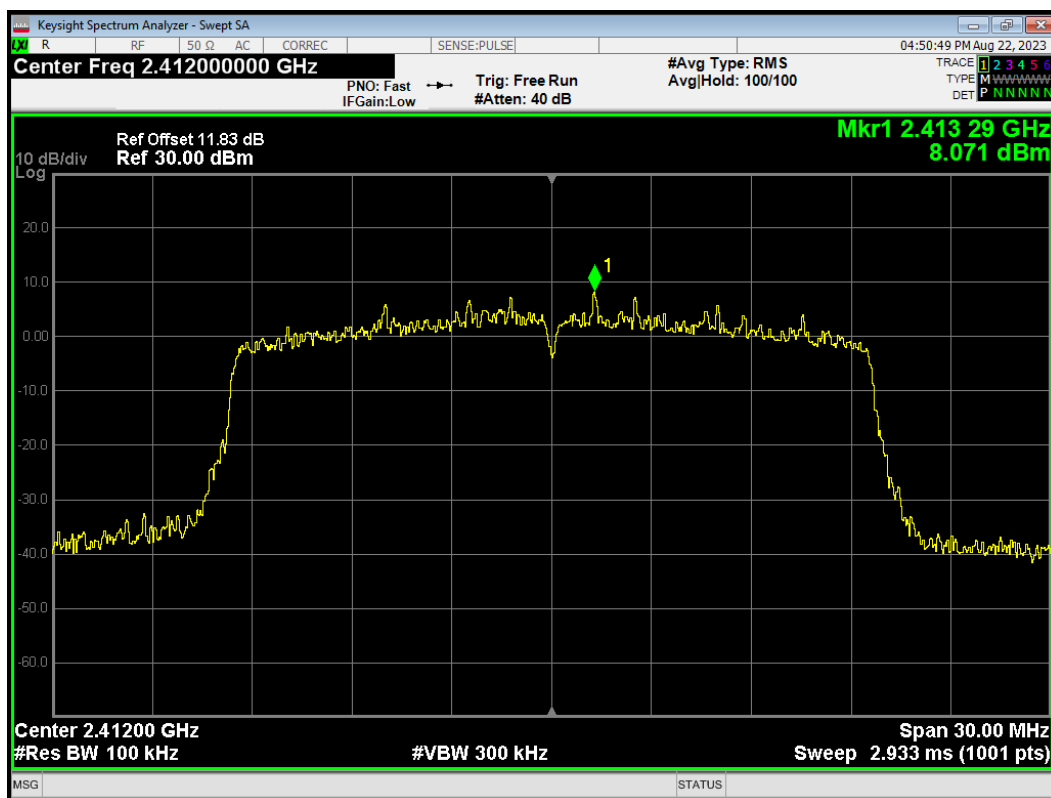
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

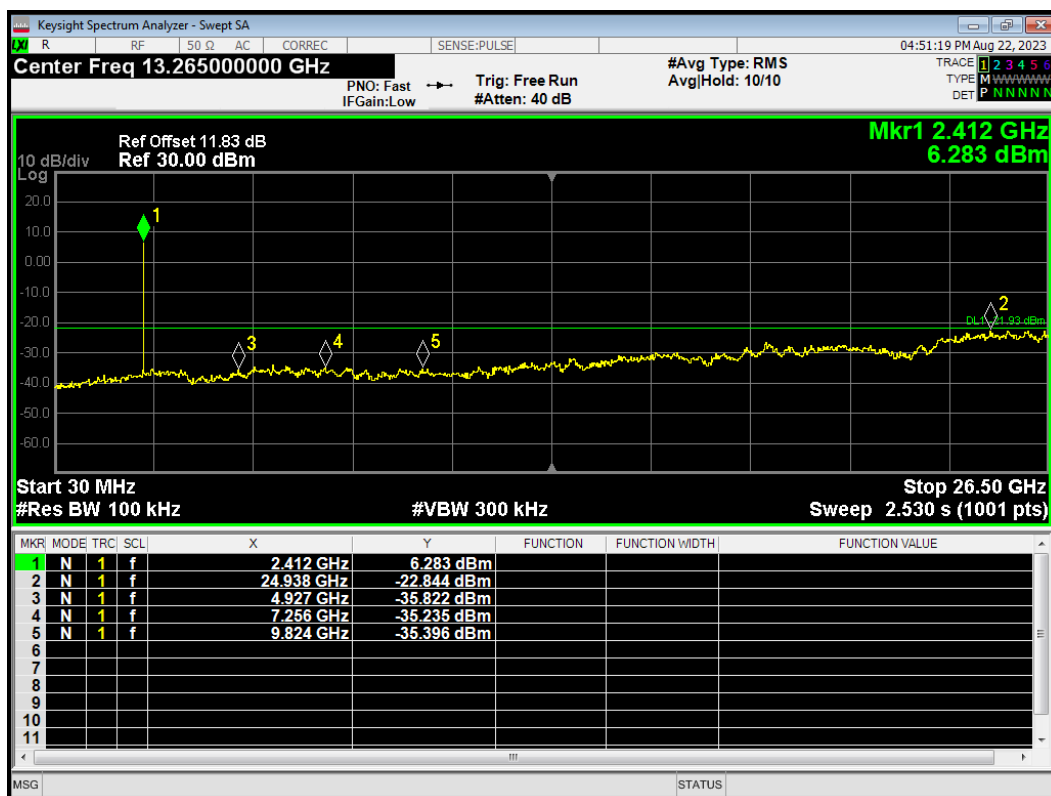
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

Test Results:

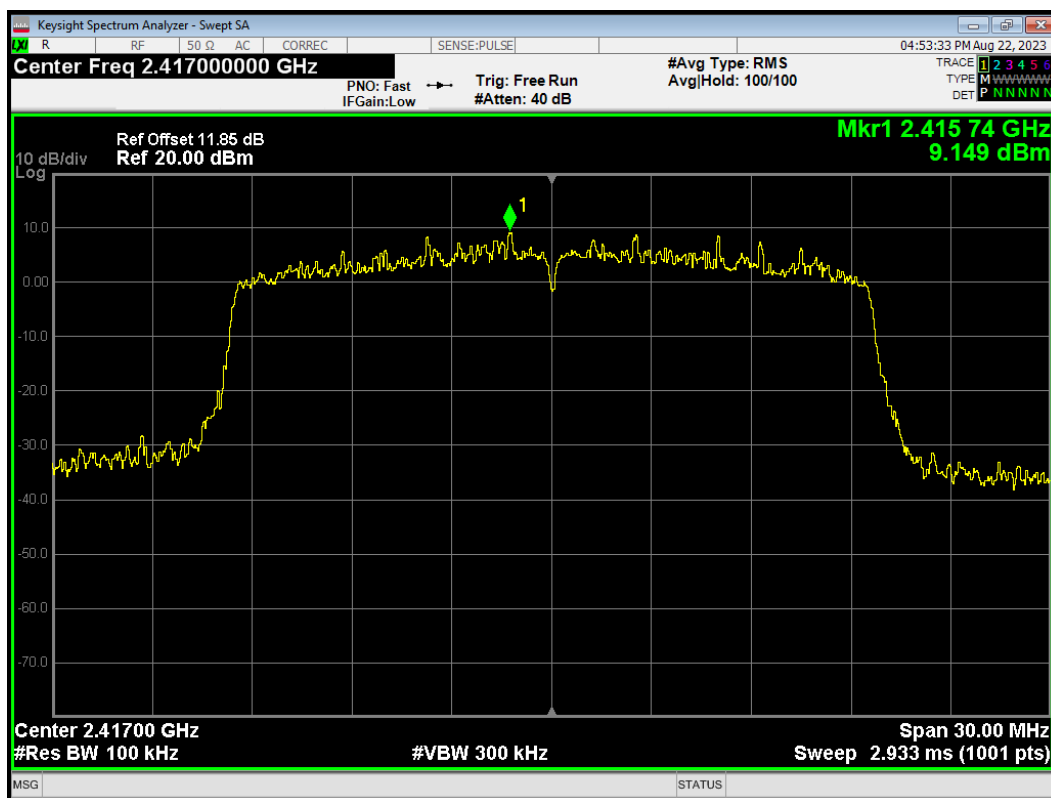
Tx. Spurious 802.11ax(HE20) 2412MHz Ref



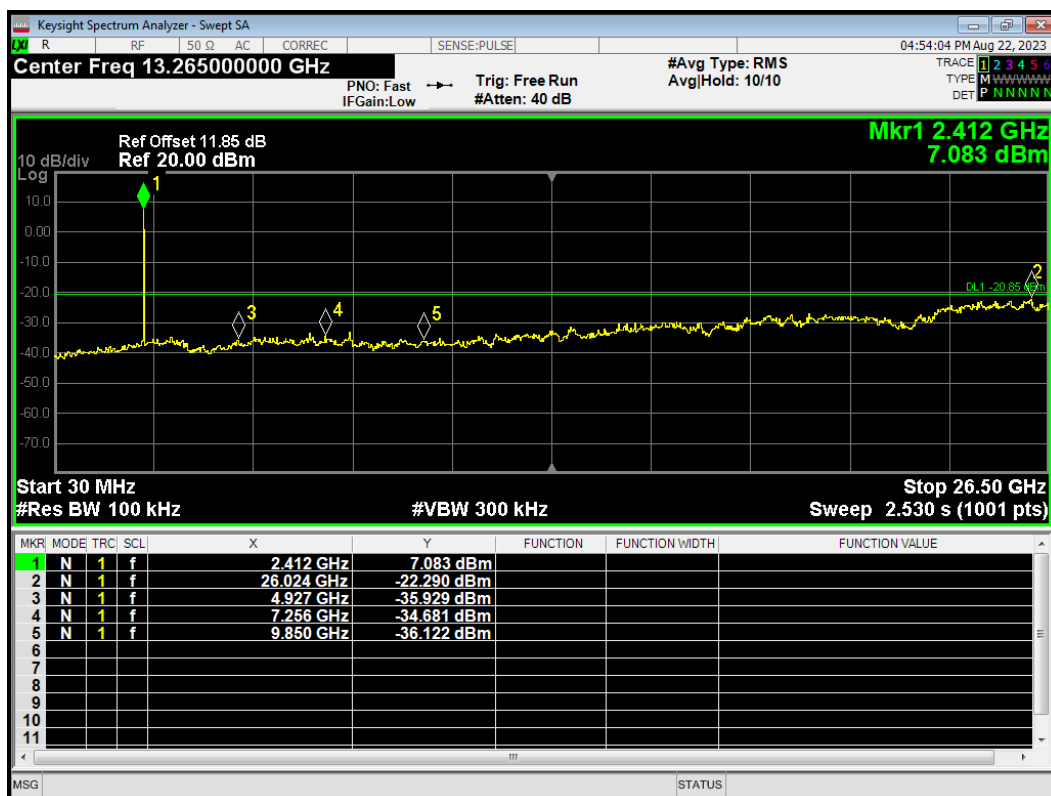
Tx. Spurious 802.11ax(HE20) 2412MHz Emission



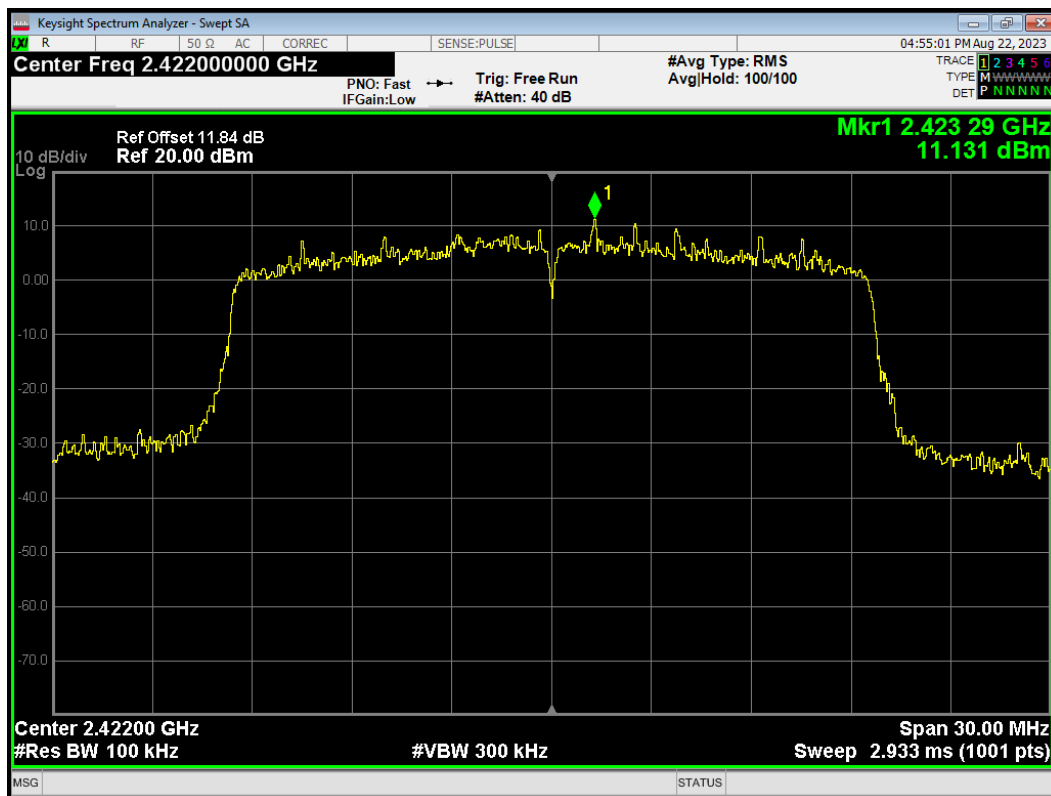
Tx. Spurious 802.11ax(HE20) 2417MHz Ref



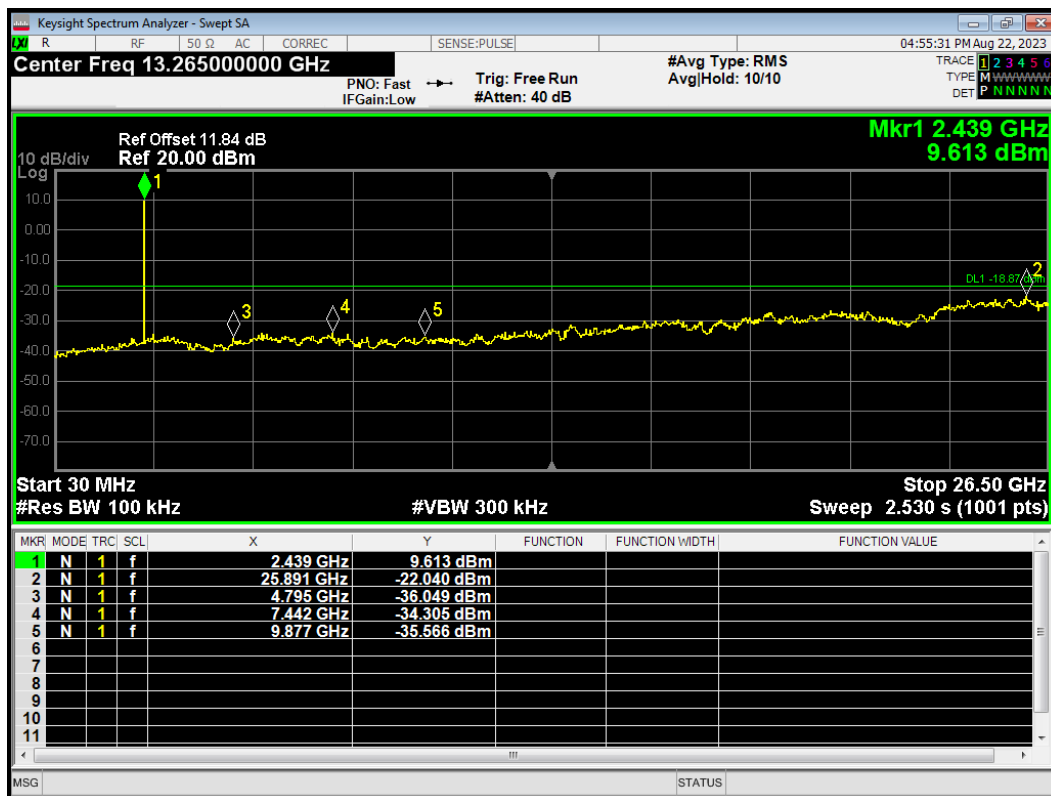
Tx. Spurious 802.11ax(HE20) 2417MHz Emission



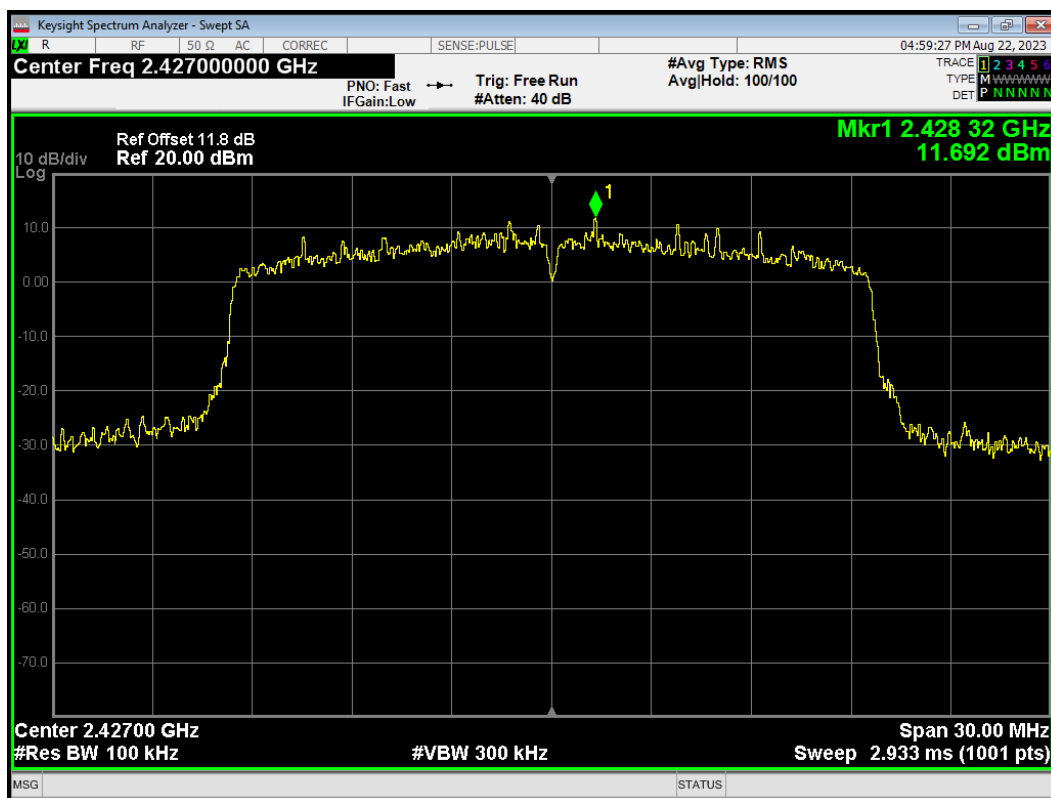
Tx. Spurious 802.11ax(HE20) 2422MHz Ref



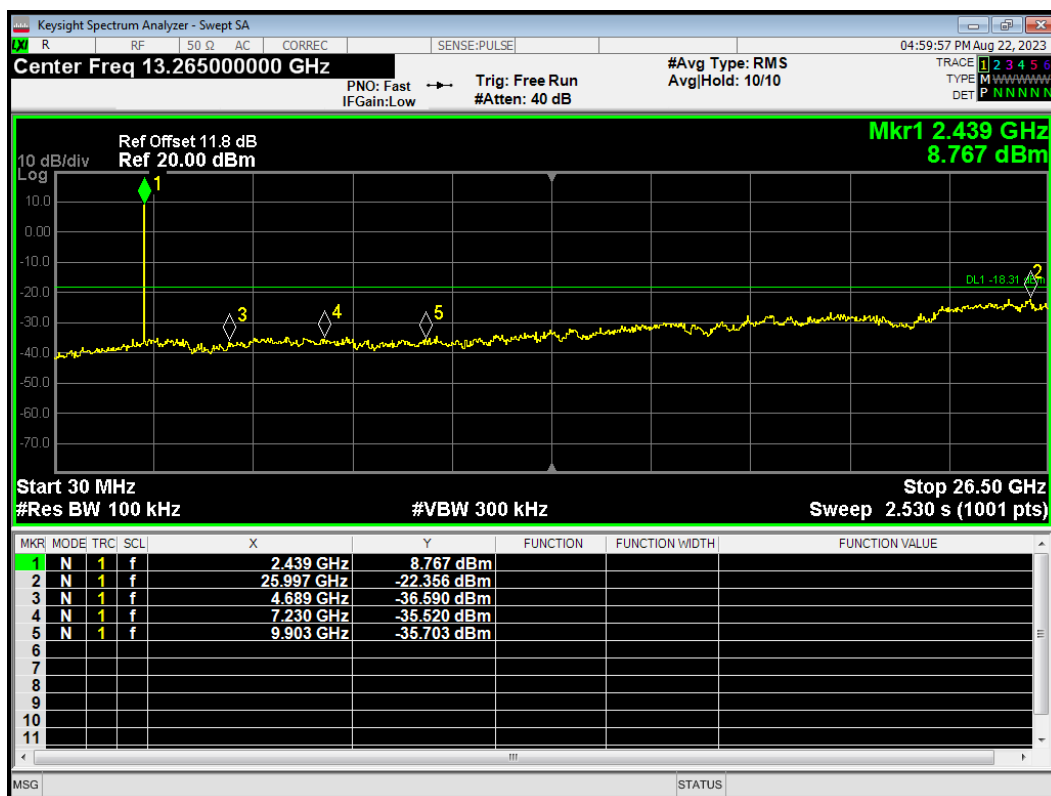
Tx. Spurious 802.11ax(HE20) 2422MHz Emission



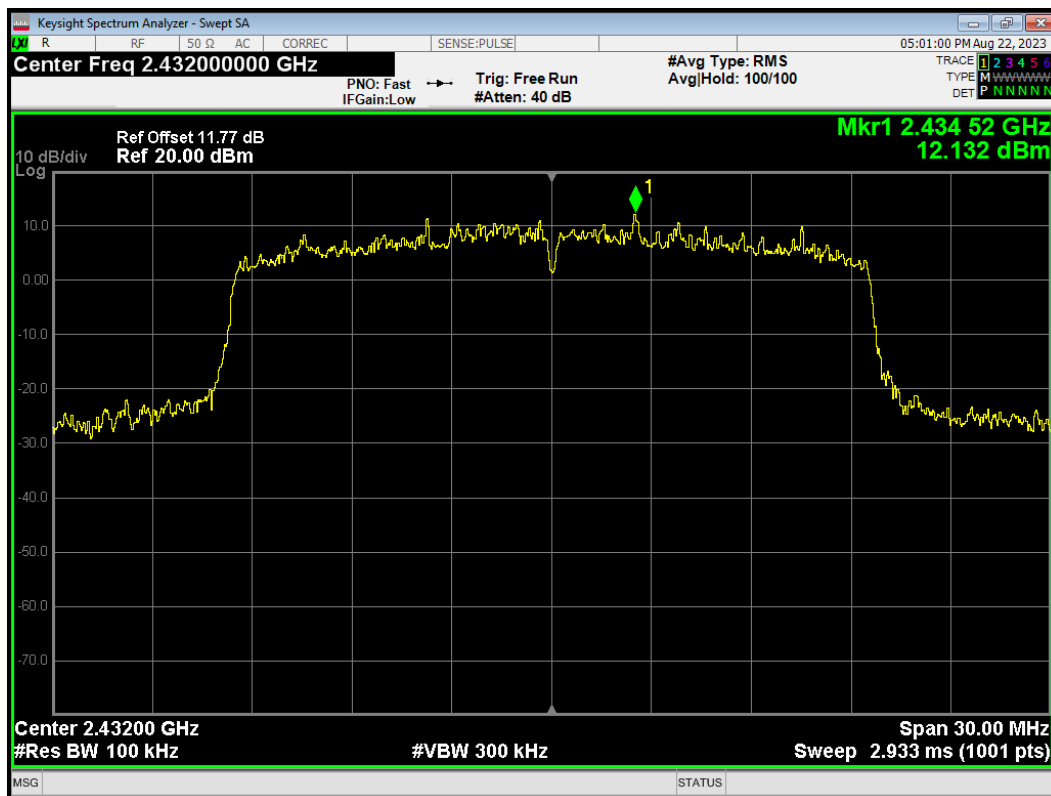
Tx. Spurious 802.11ax(HE20) 2427MHz Ref



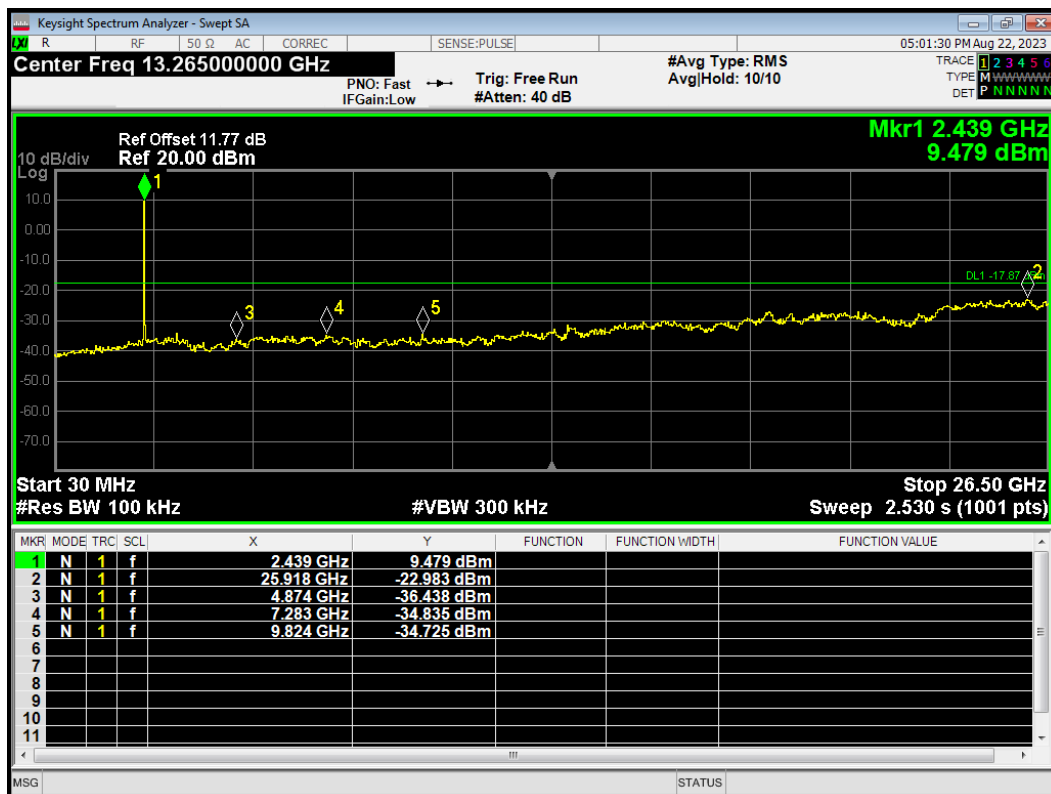
Tx. Spurious 802.11ax(HE20) 2427MHz Emission



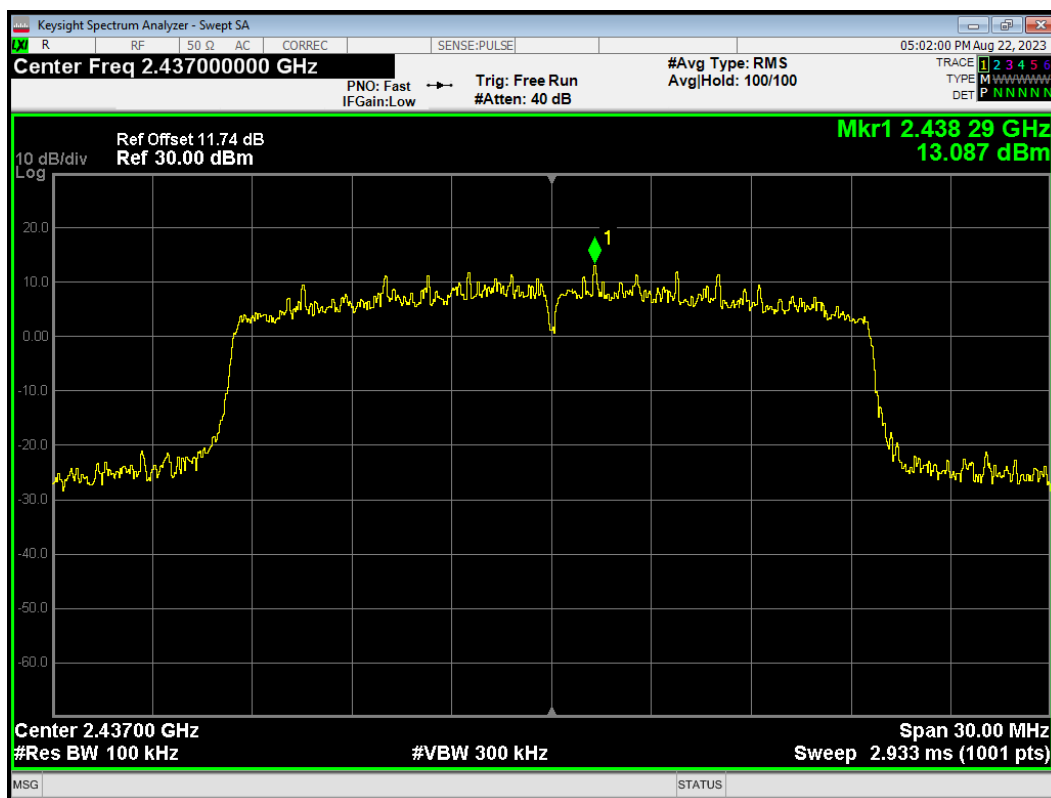
Tx. Spurious 802.11ax(HE20) 2432MHz Ref



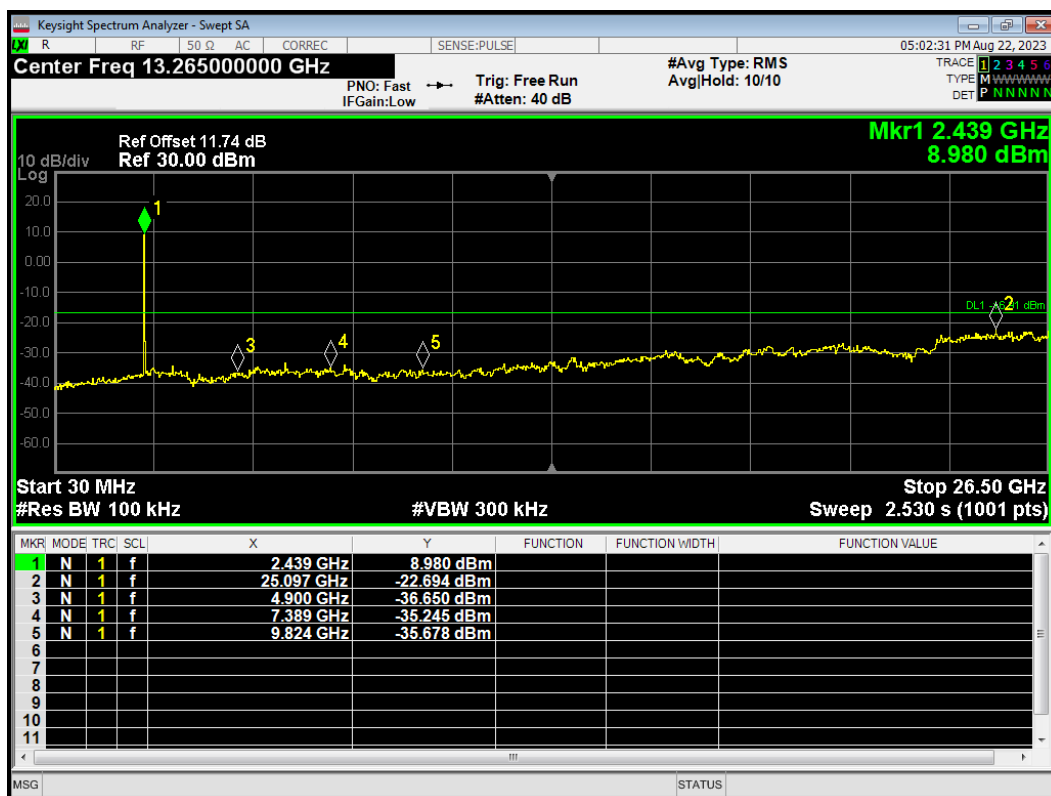
Tx. Spurious 802.11ax(HE20) 2432MHz Emission



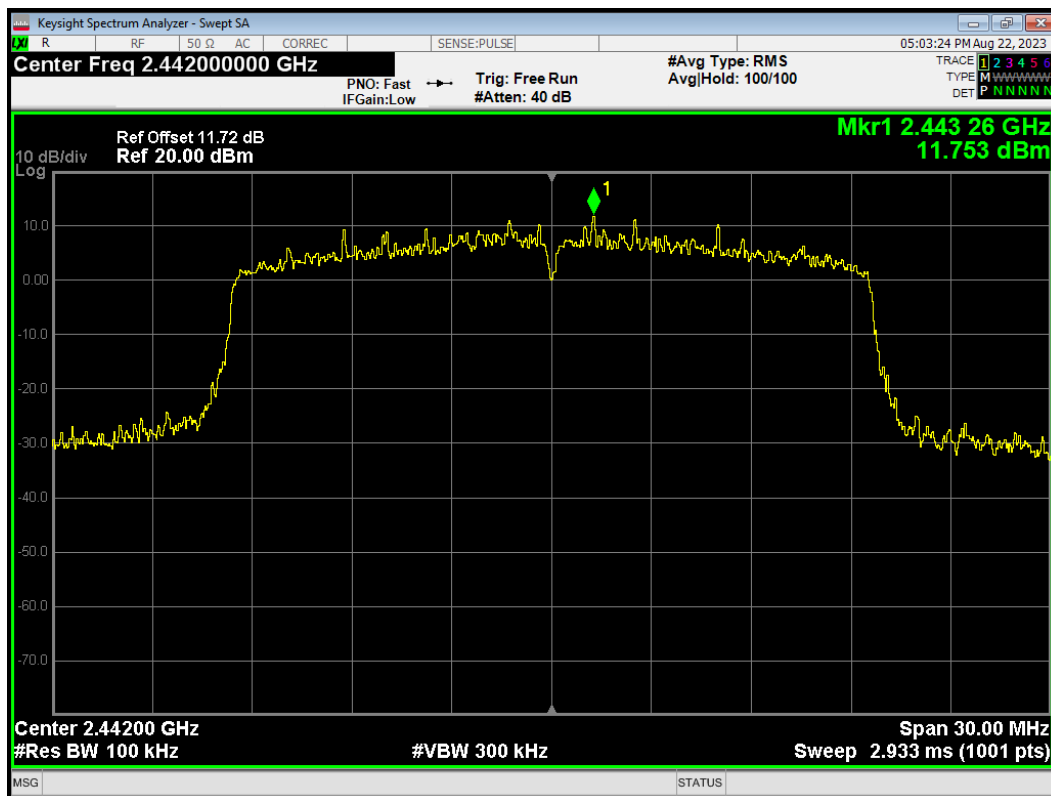
Tx. Spurious 802.11ax(HE20) 2437MHz Ref



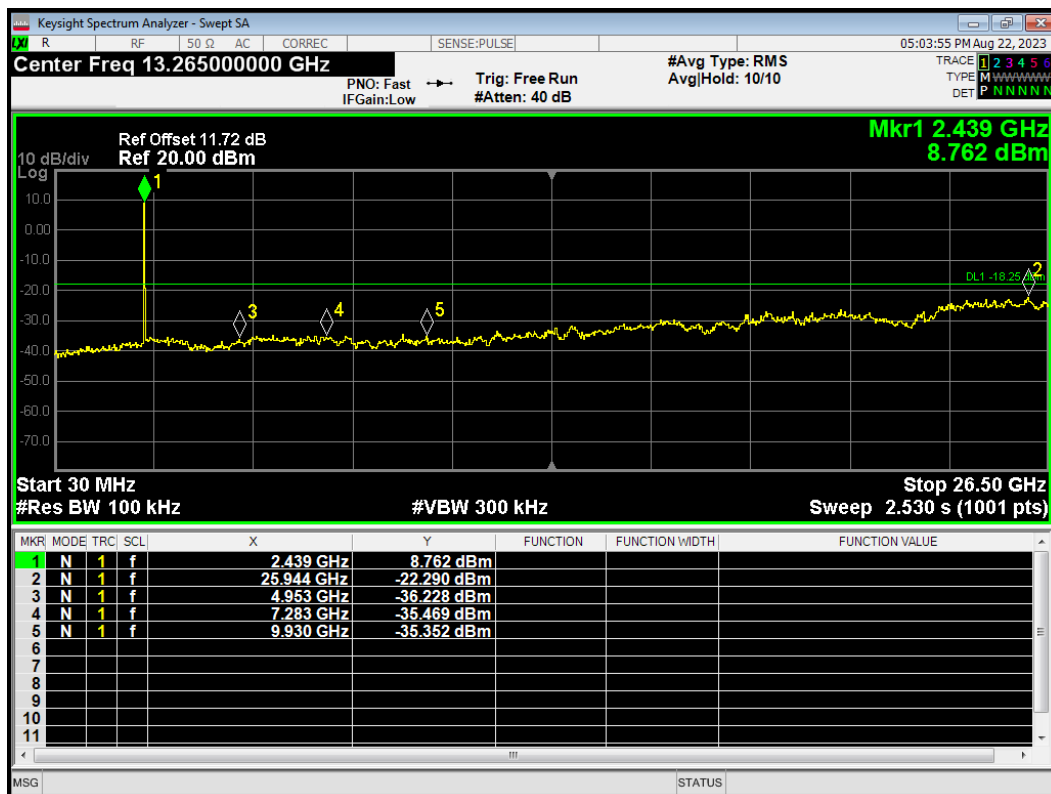
Tx. Spurious 802.11ax(HE20) 2437MHz Emission



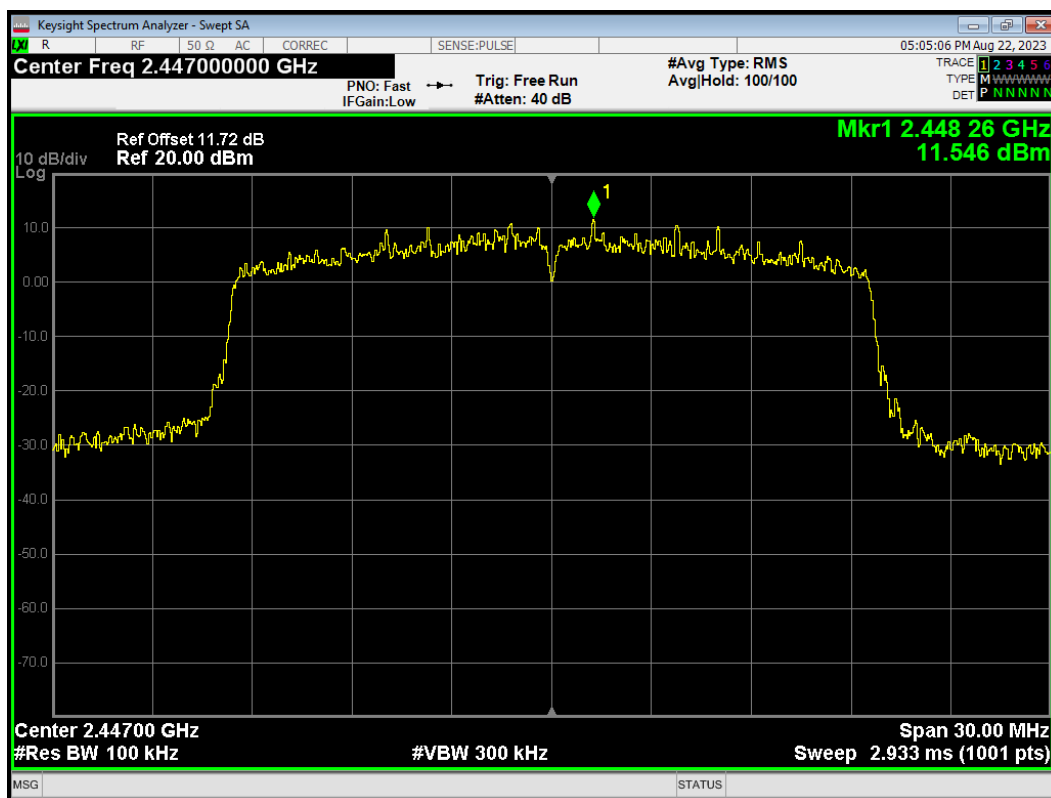
Tx. Spurious 802.11ax(HE20) 2442MHz Ref



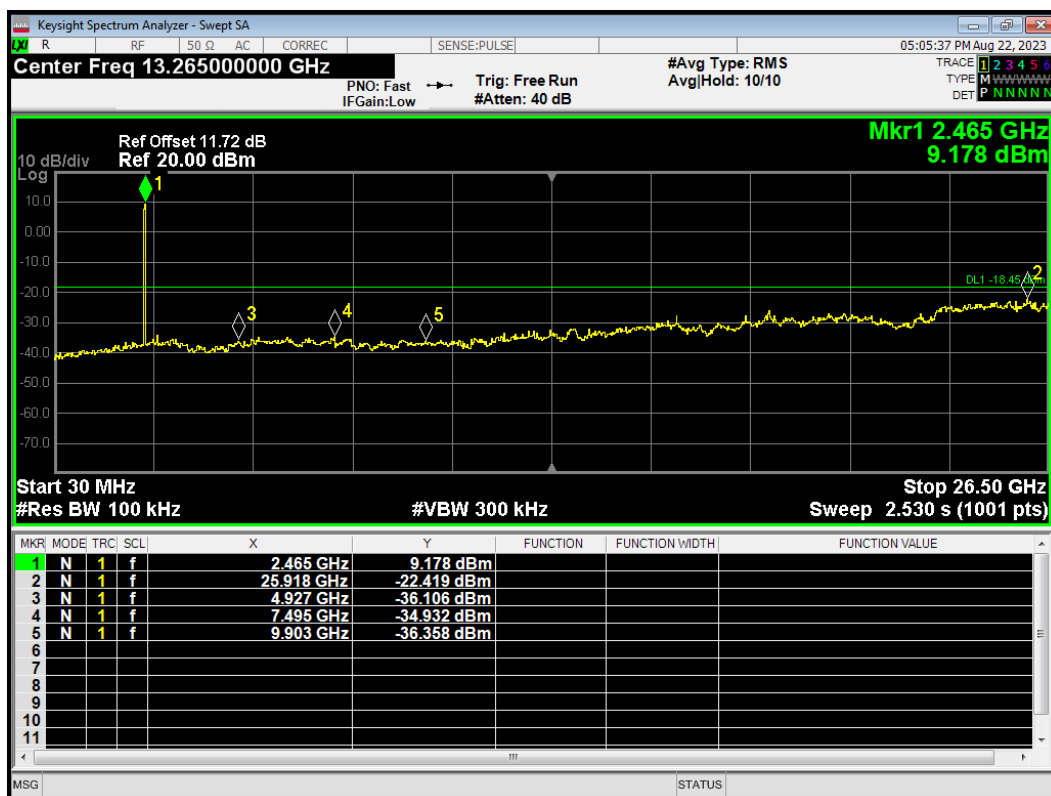
Tx. Spurious 802.11ax(HE20) 2442MHz Emission



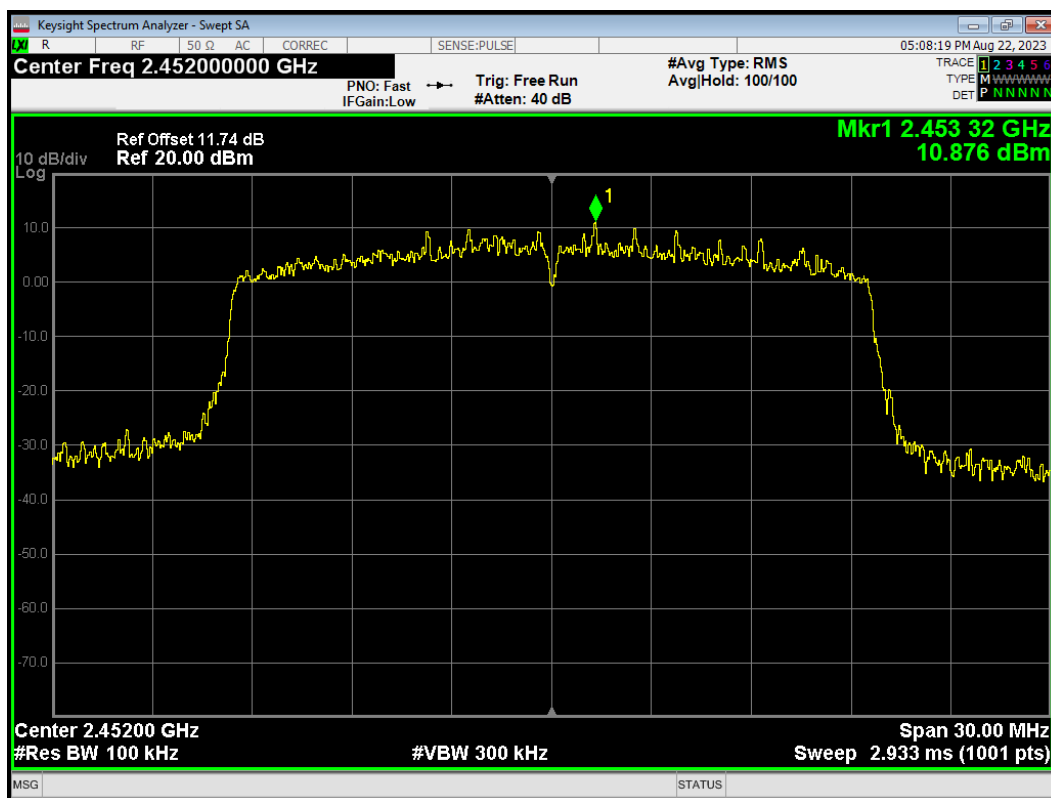
Tx. Spurious 802.11ax(HE20) 2447MHz Ref



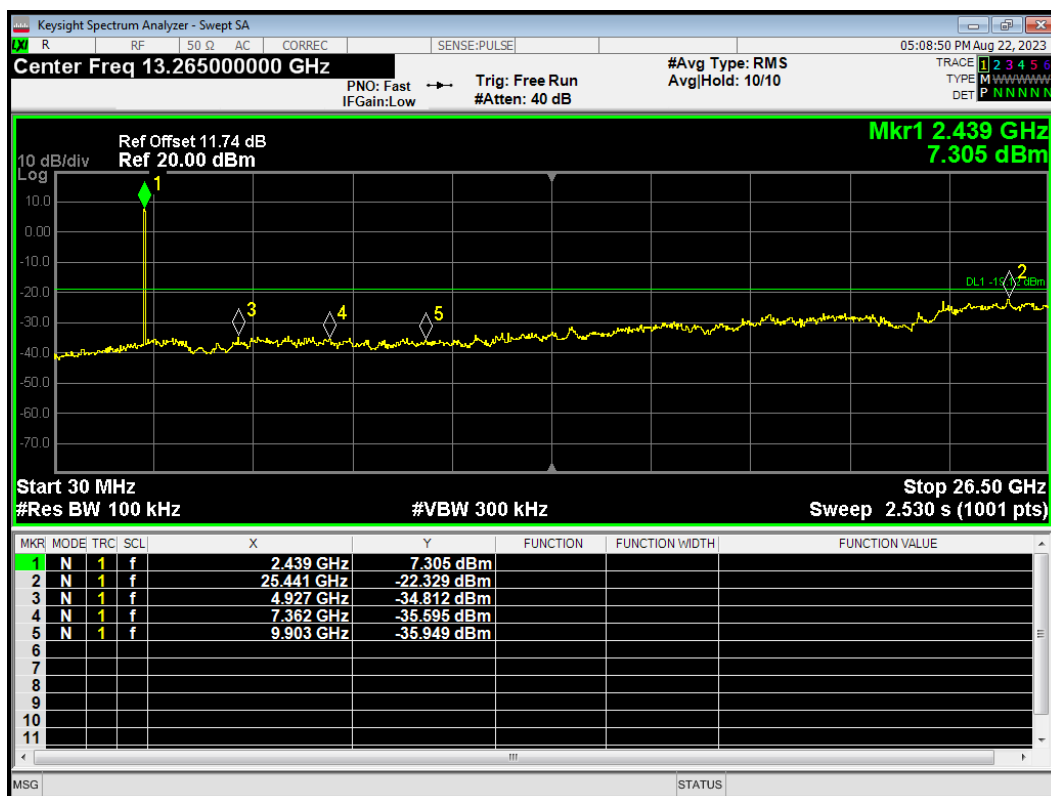
Tx. Spurious 802.11ax(HE20) 2447MHz Emission



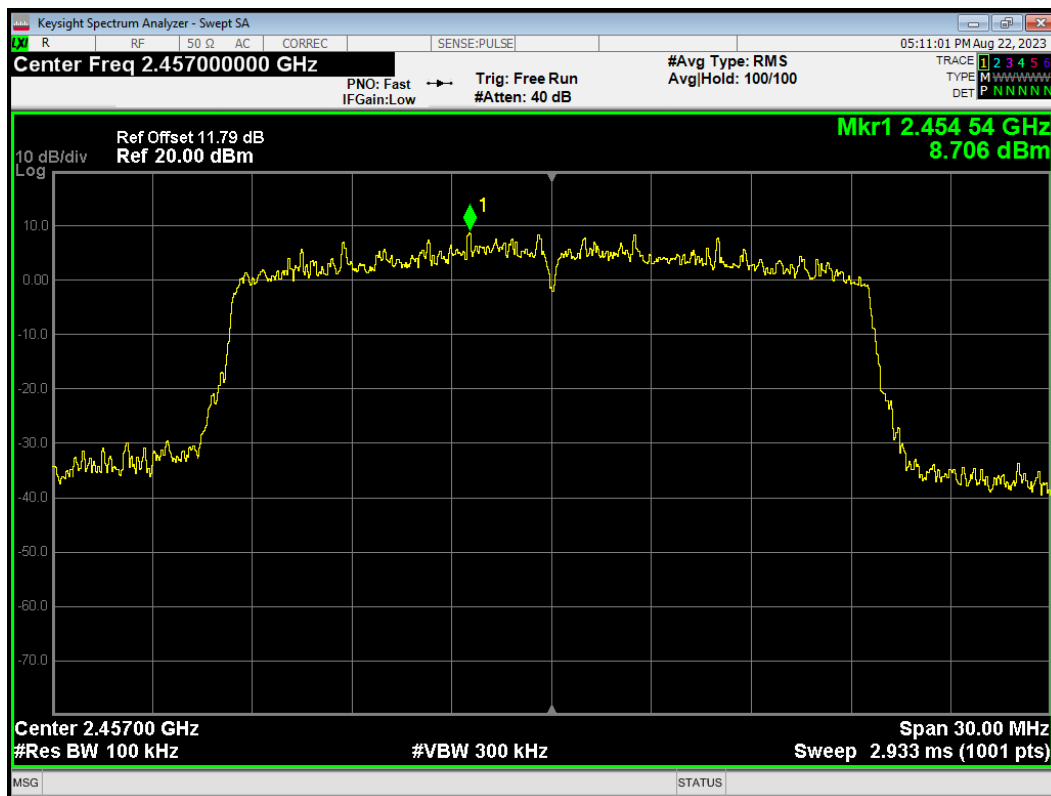
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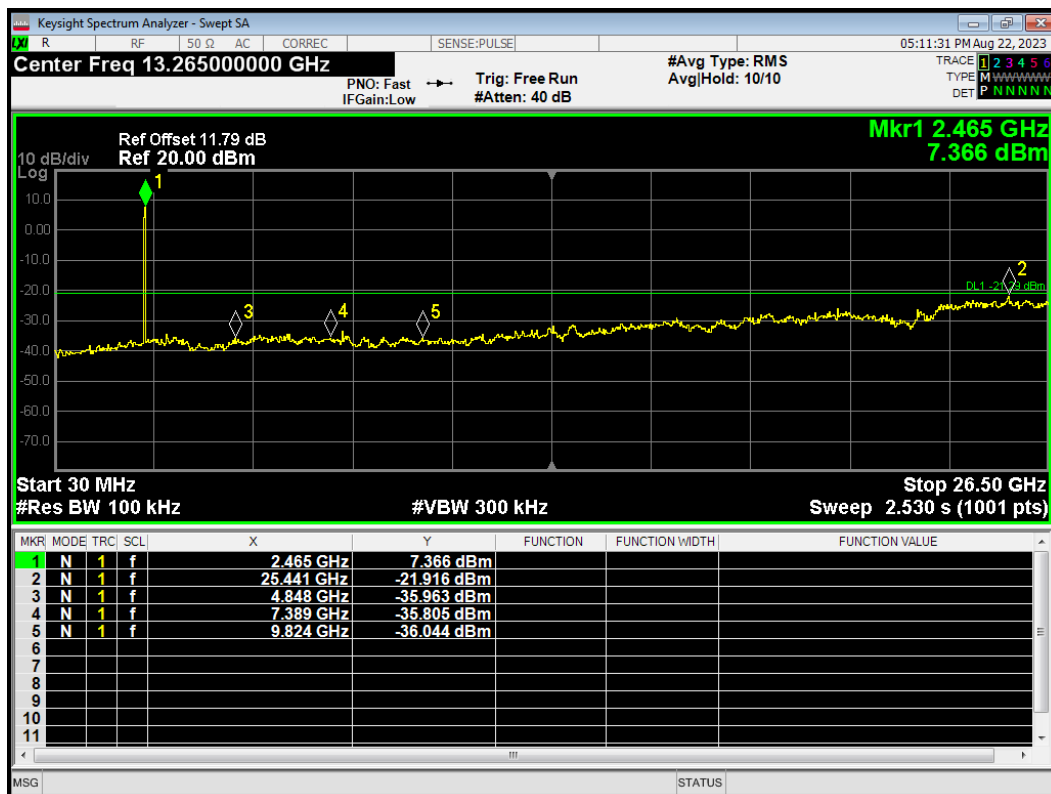
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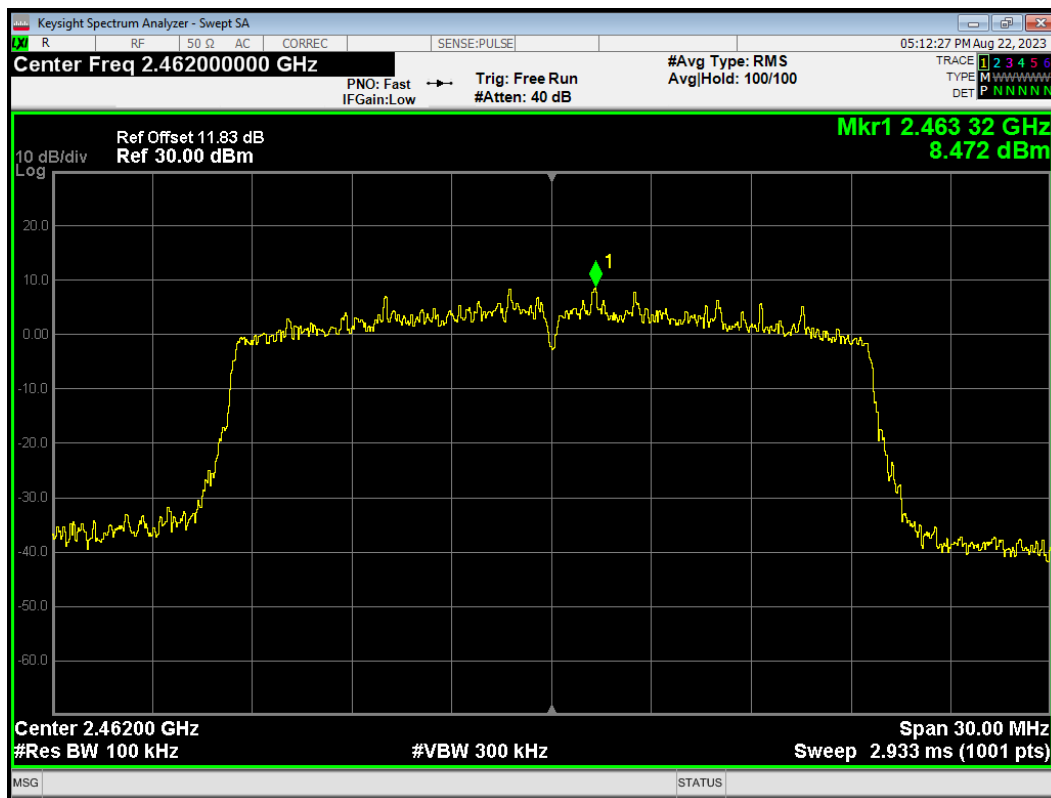
Tx. Spurious 802.11ax(HE20) 2457MHz Ref



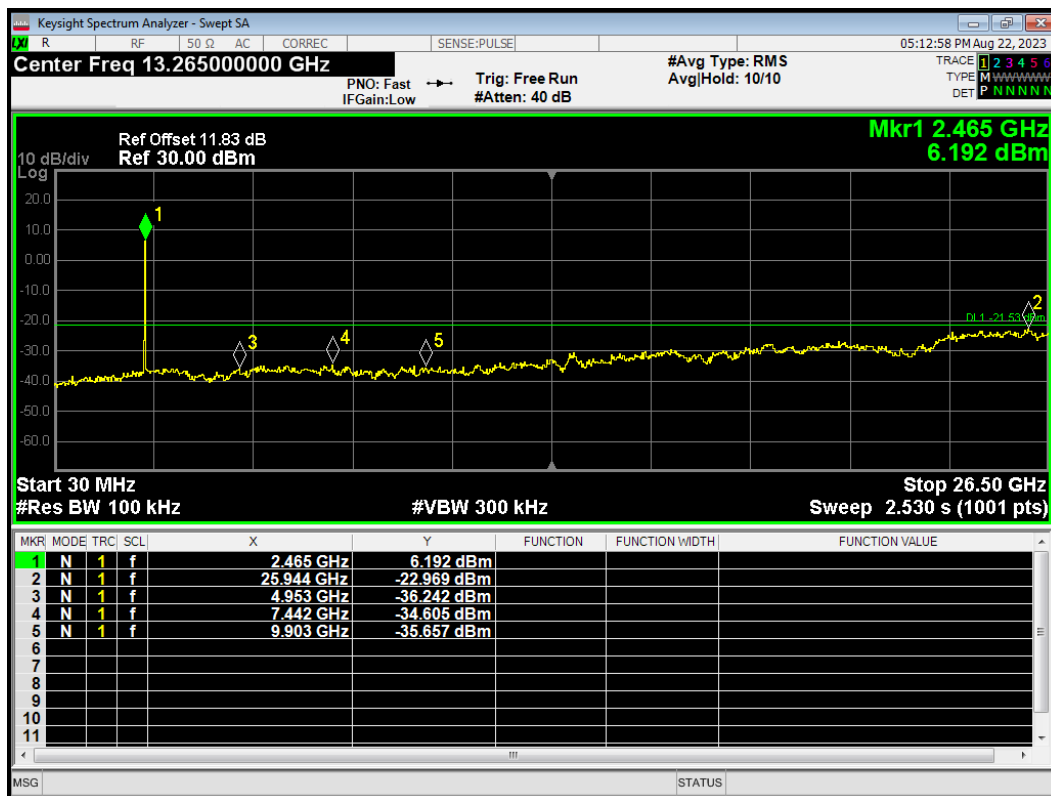
Tx. Spurious 802.11ax(HE20) 2457MHz Emission



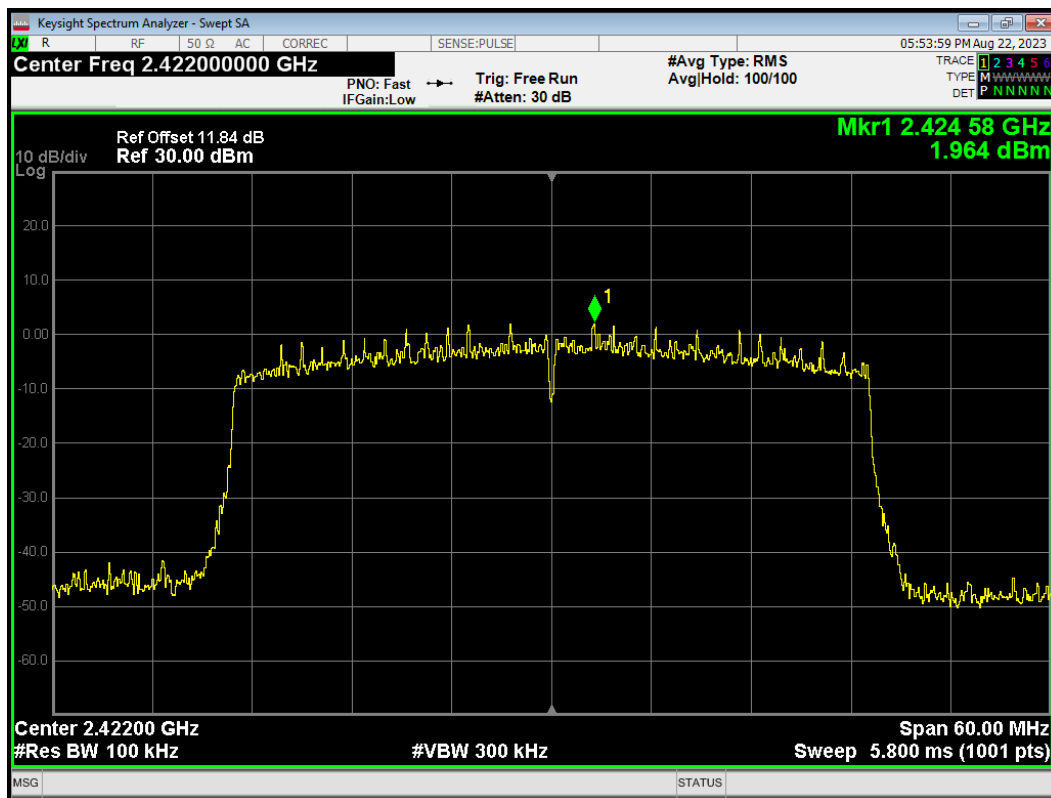
Tx. Spurious 802.11ax(HE20) 2462MHz Ref



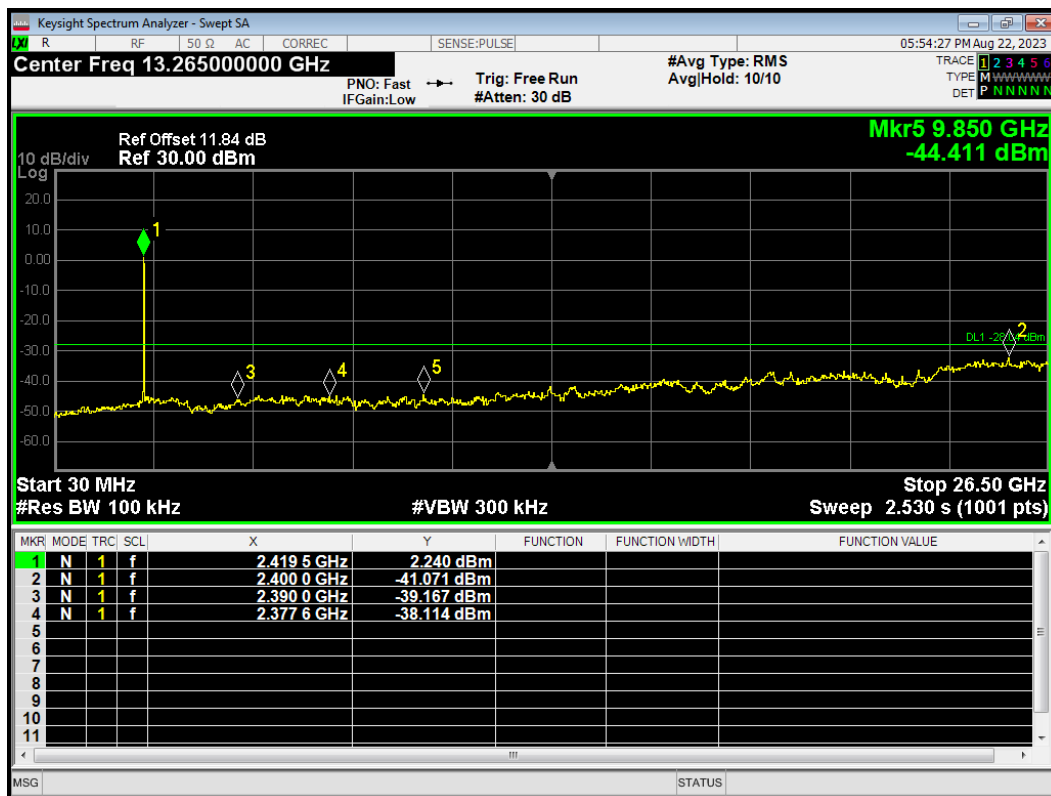
Tx. Spurious 802.11ax(HE20) 2462MHz Emission



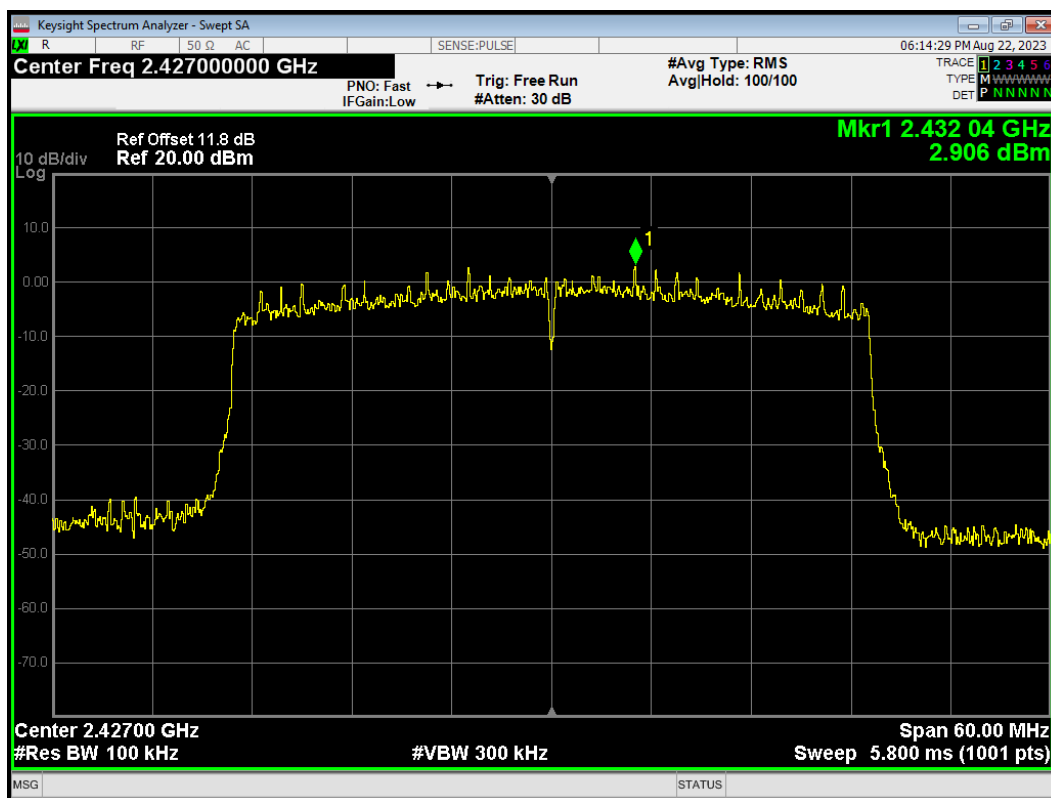
Tx. Spurious 802.11ax(HE40) 2422MHz Ref



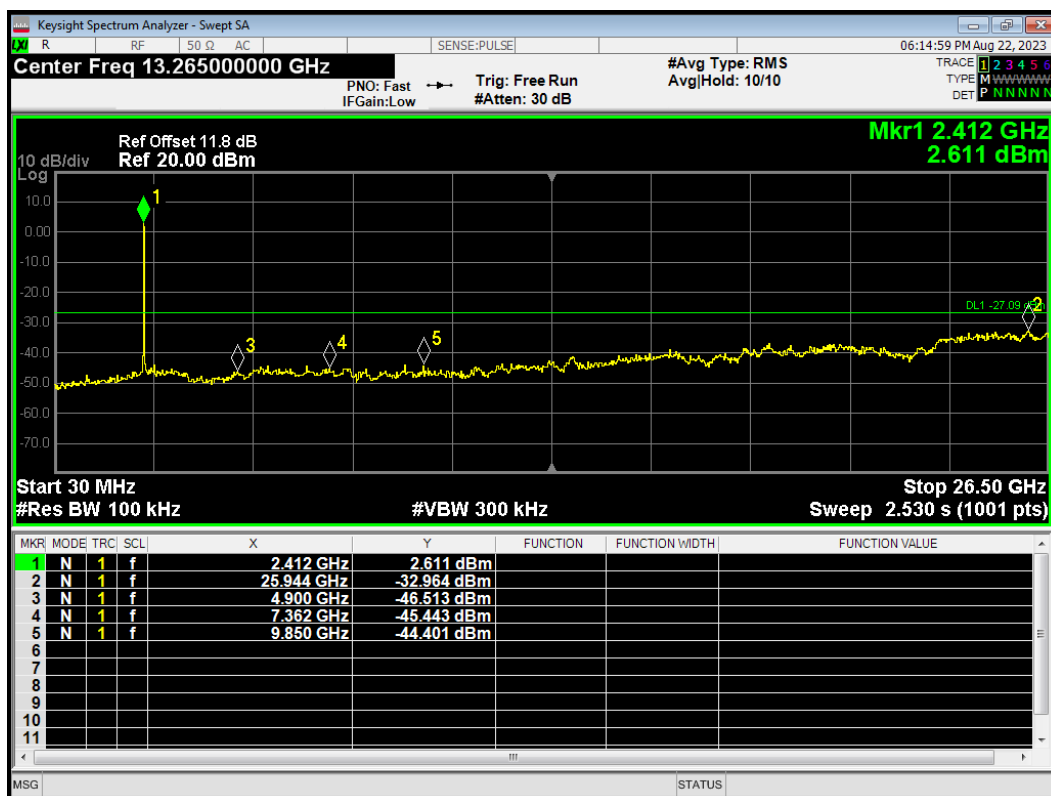
Tx. Spurious 802.11ax(HE40) 2422MHz Emission



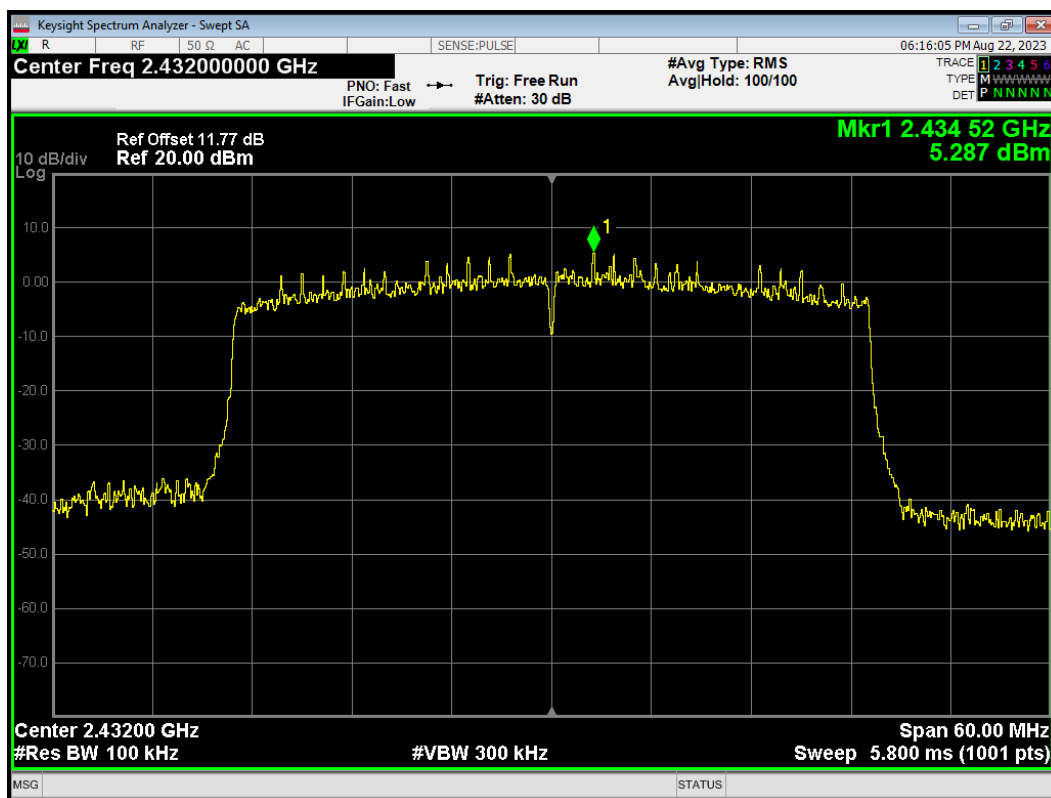
Tx. Spurious 802.11ax(HE40) 2427MHz Ref



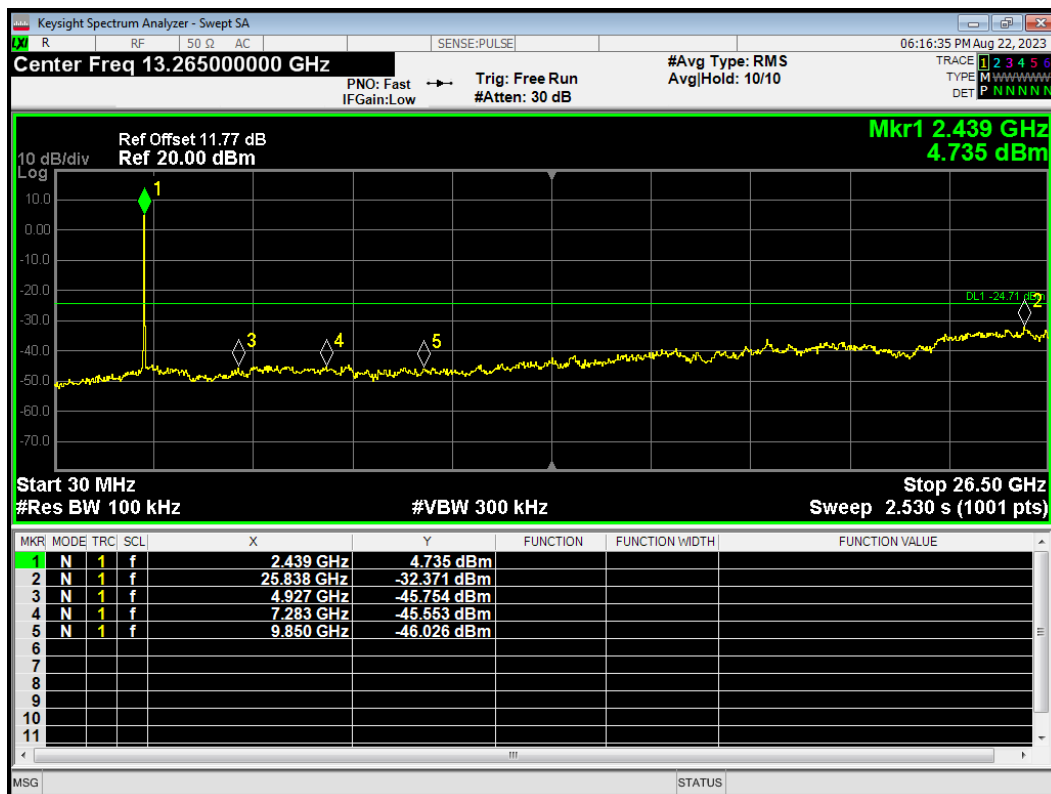
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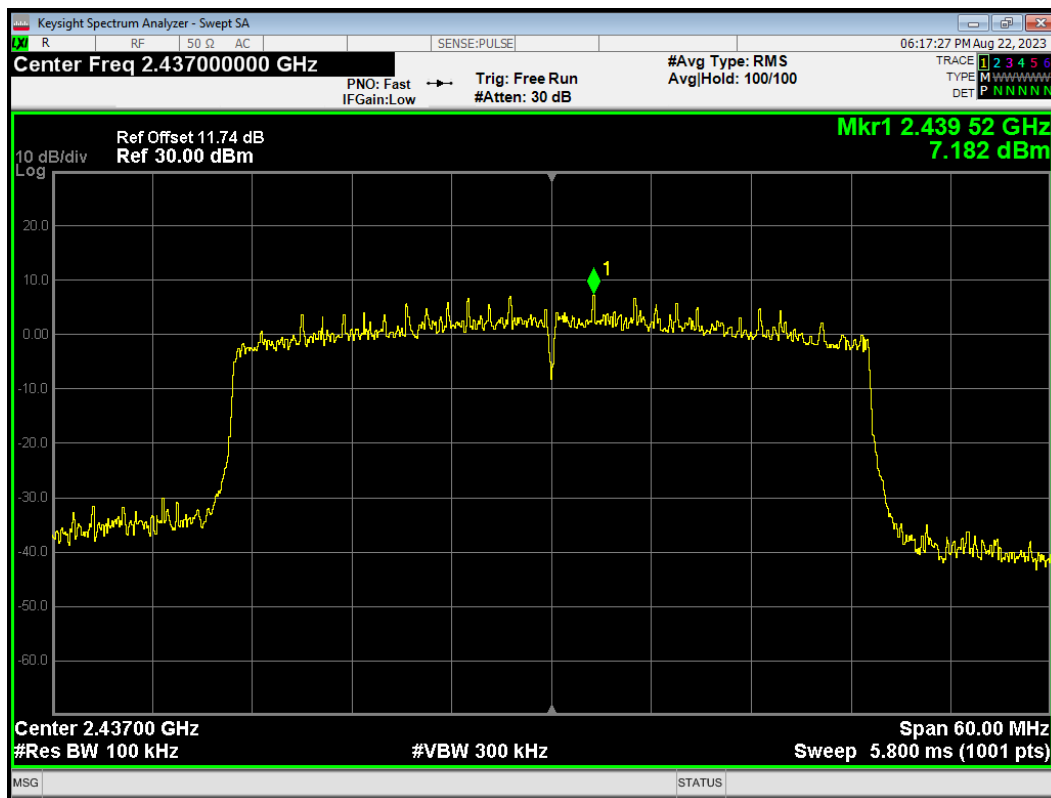
Tx. Spurious 802.11ax(HE40) 2432MHz Ref



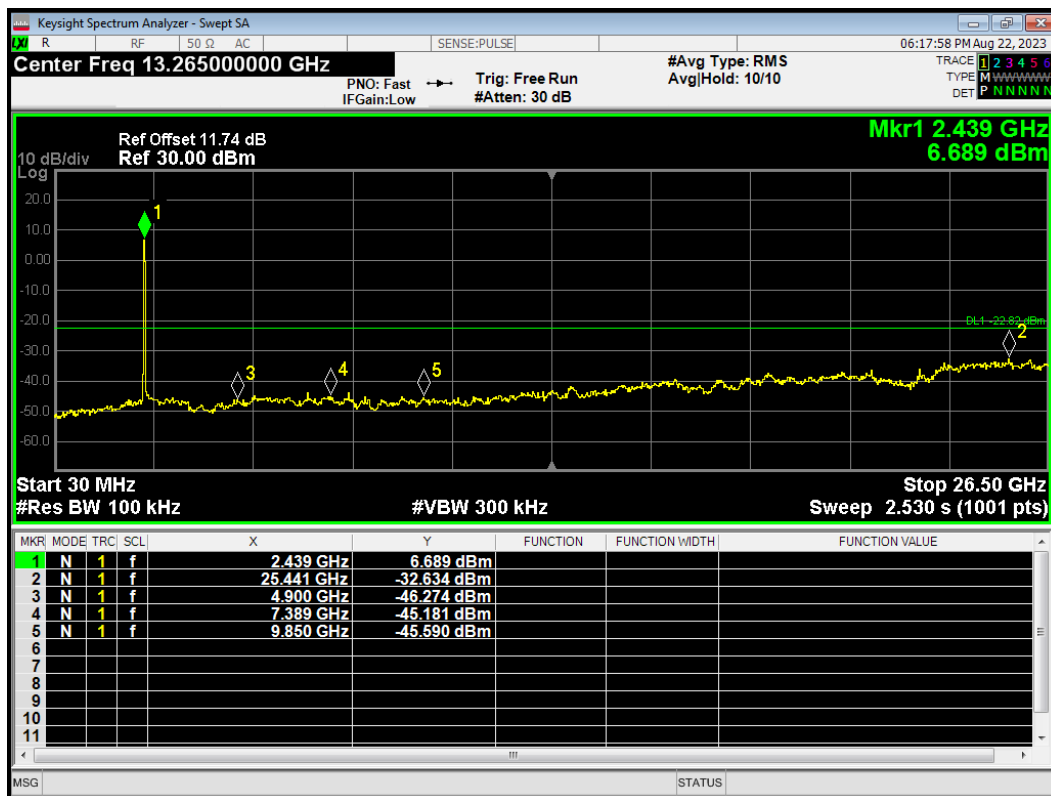
Tx. Spurious 802.11ax(HE40) 2432MHz Emission



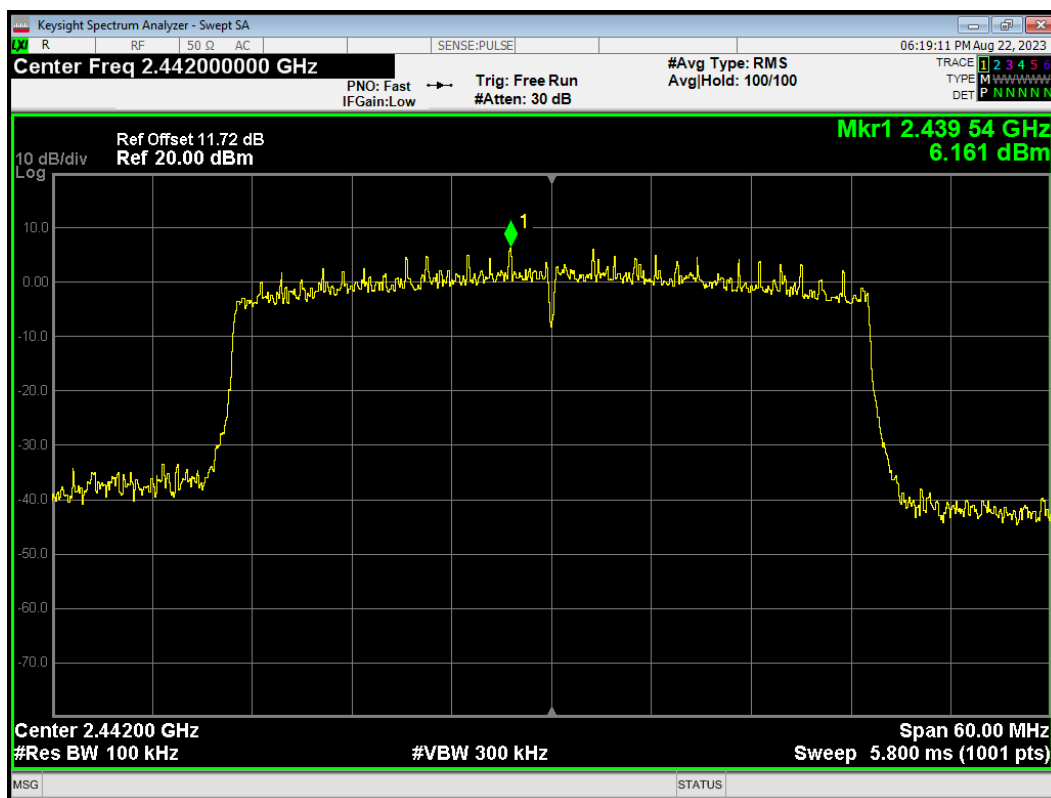
Tx. Spurious 802.11ax(HE40) 2437MHz Ref



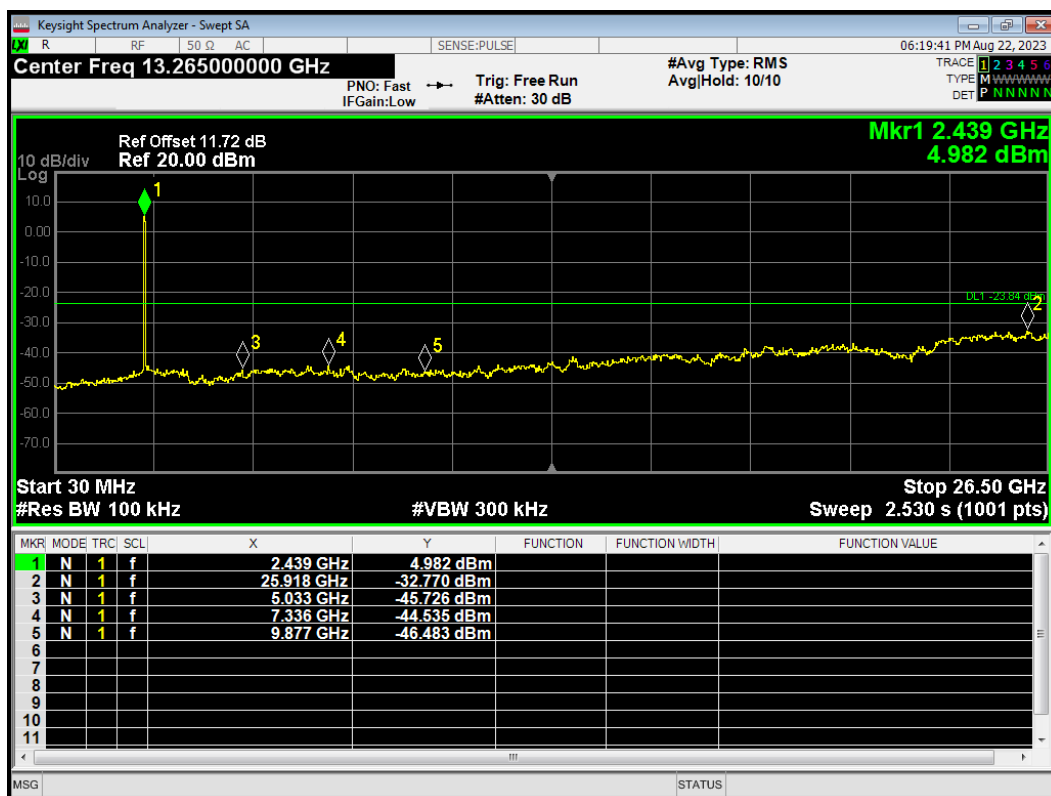
Tx. Spurious 802.11ax(HE40) 2437MHz Emission



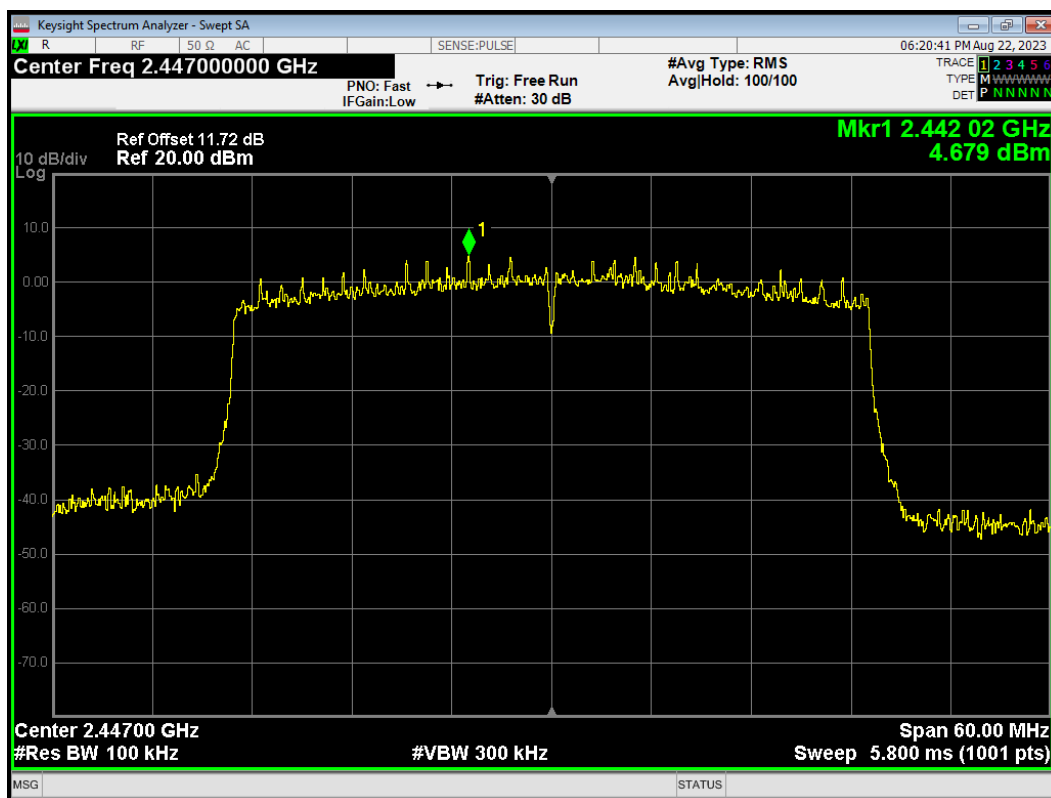
Tx. Spurious 802.11ax(HE40) 2442MHz Ref



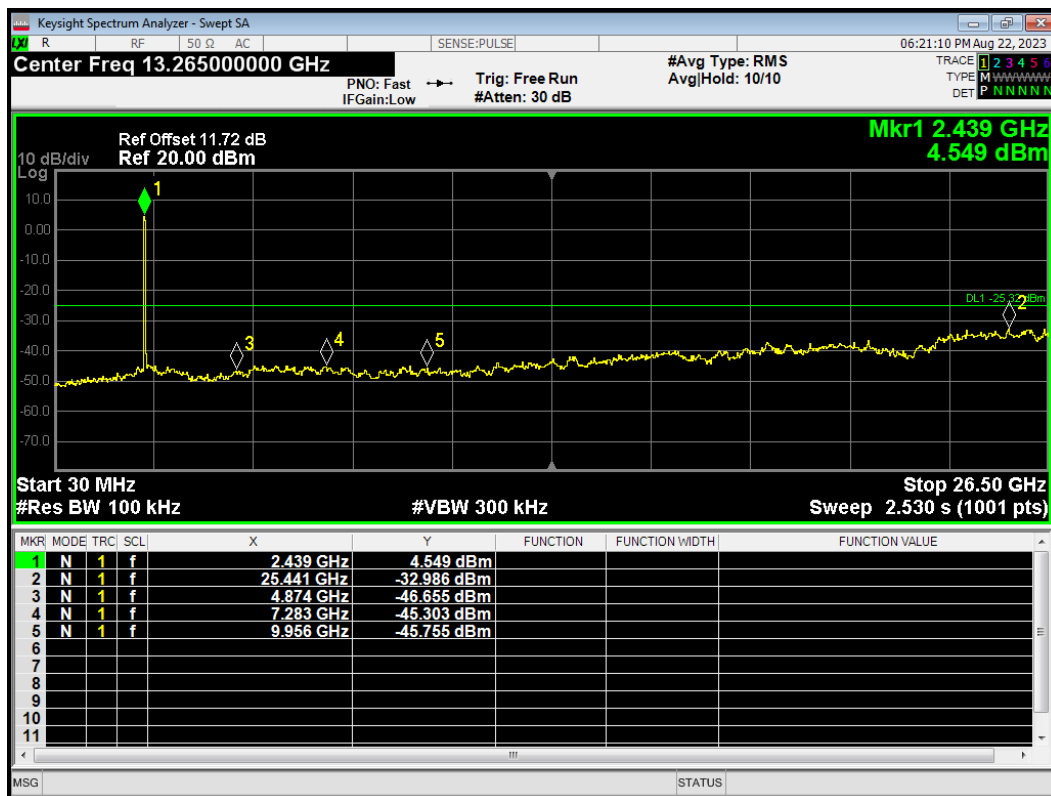
Tx. Spurious 802.11ax(HE40) 2442MHz Emission



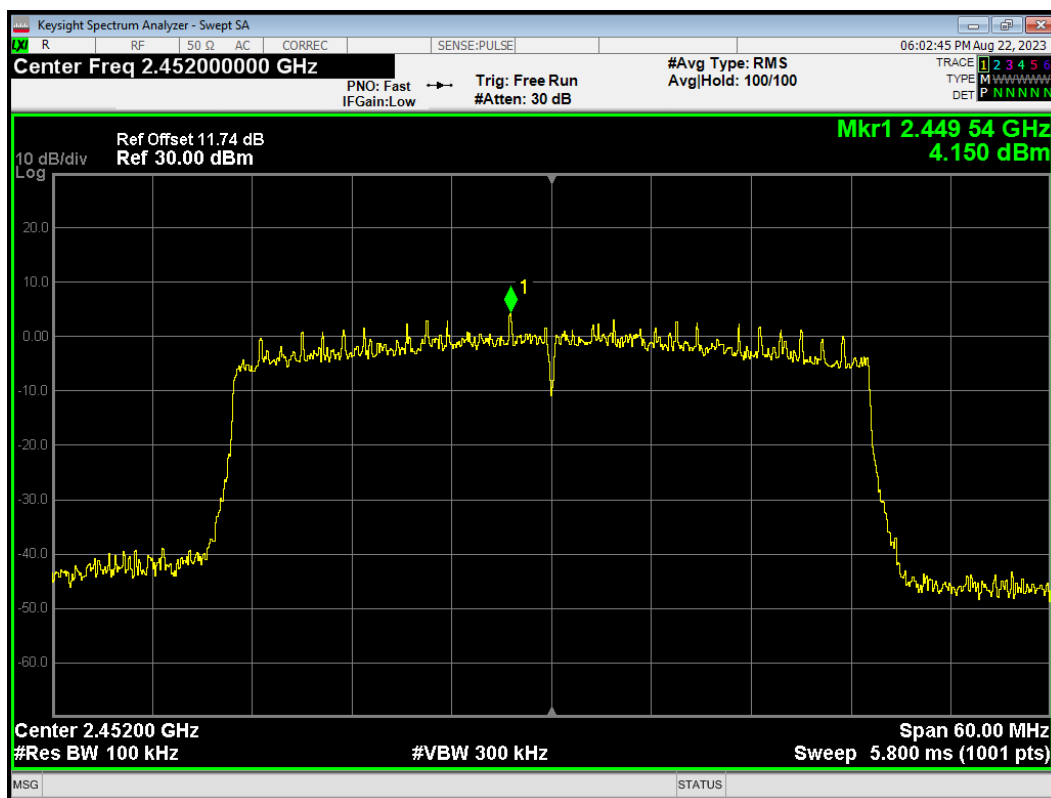
Tx. Spurious 802.11ax(HE40) 2447MHz Ref



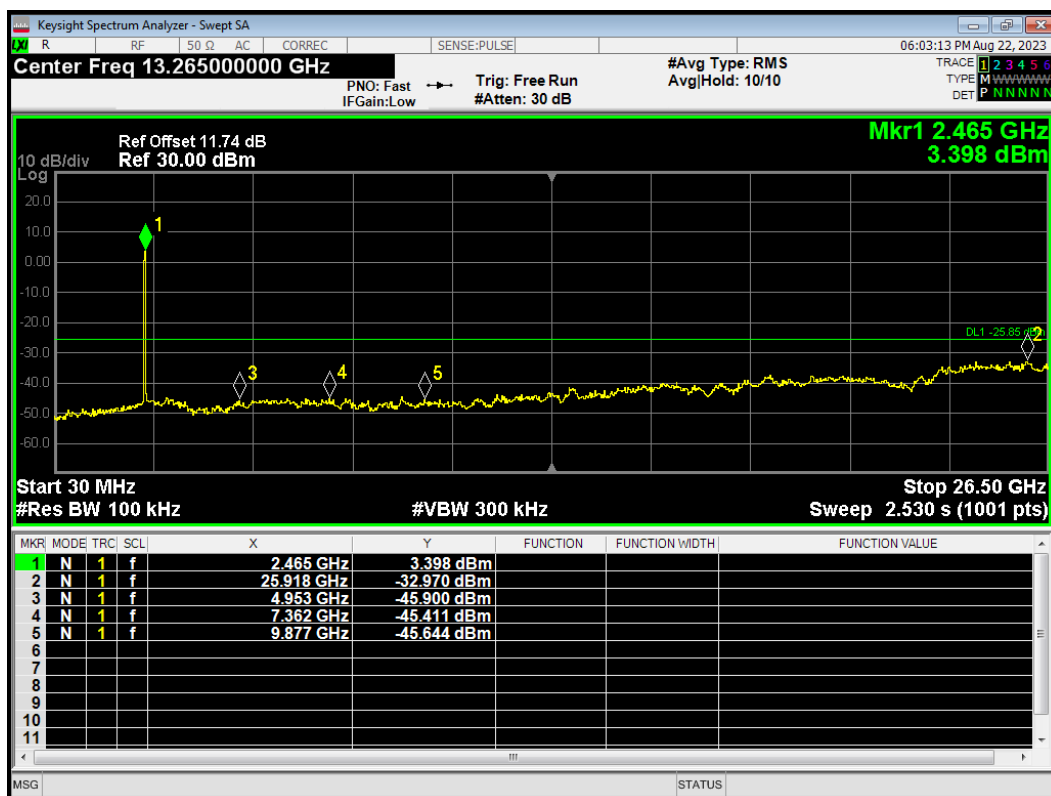
Tx. Spurious 802.11ax(HE40) 2447MHz Emission



Tx. Spurious 802.11ax(HE40) 2452MHz Ref



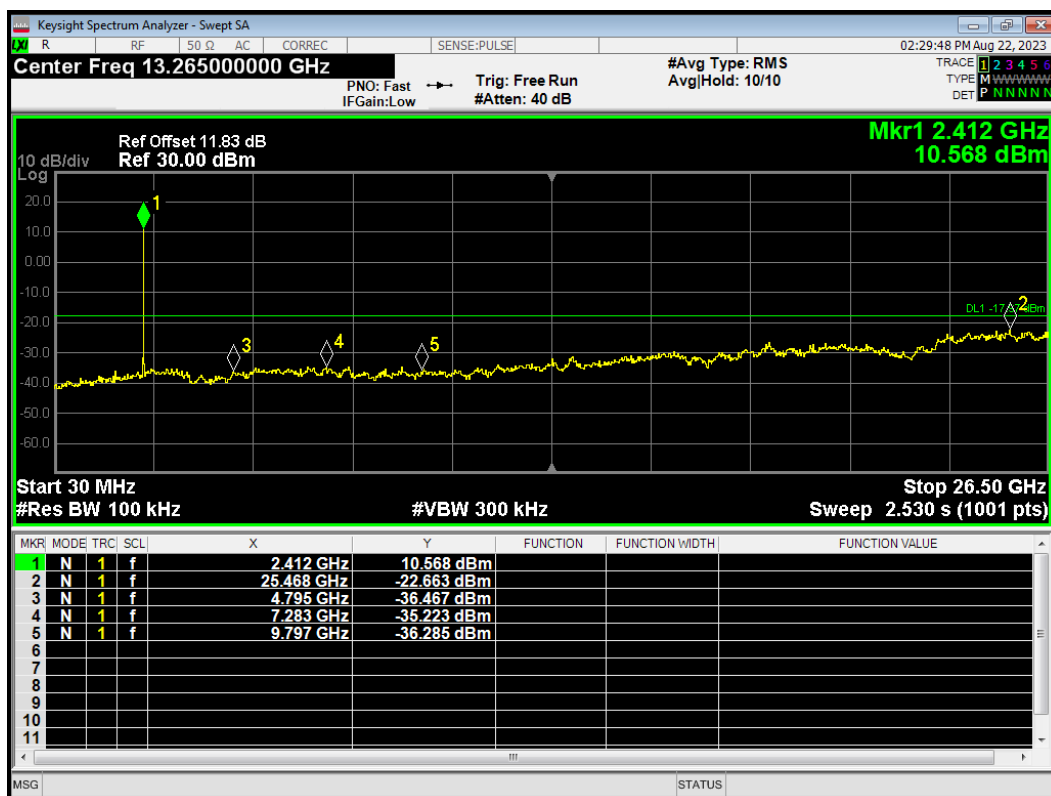
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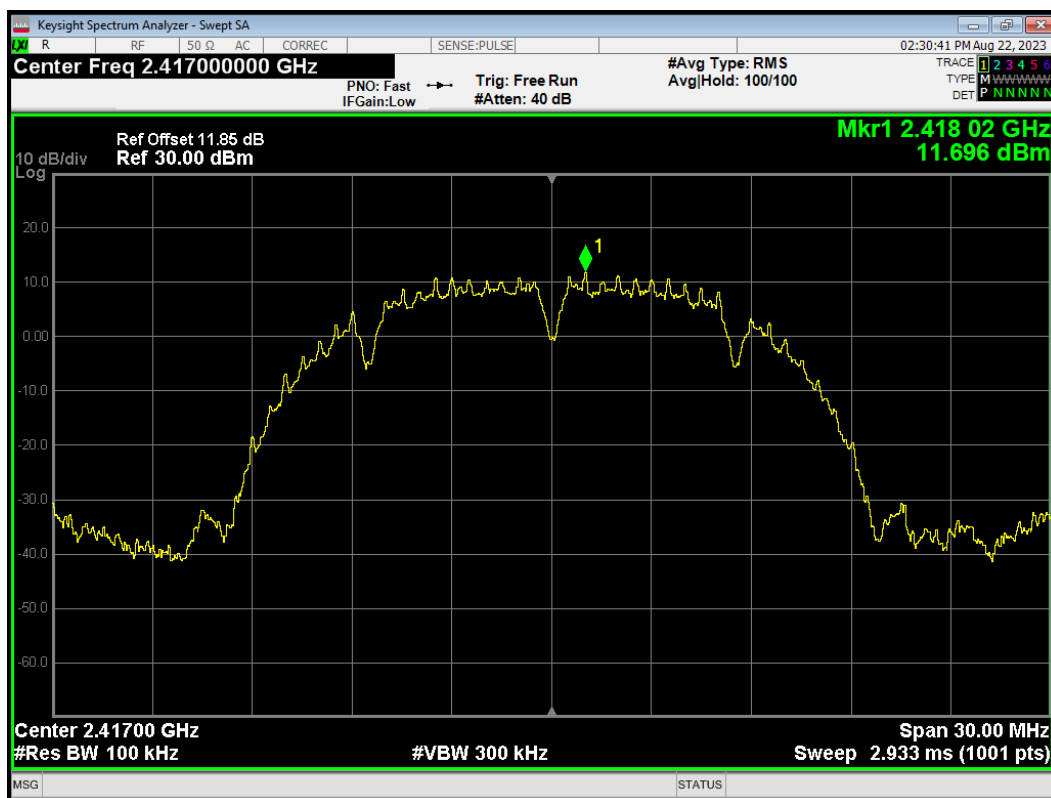
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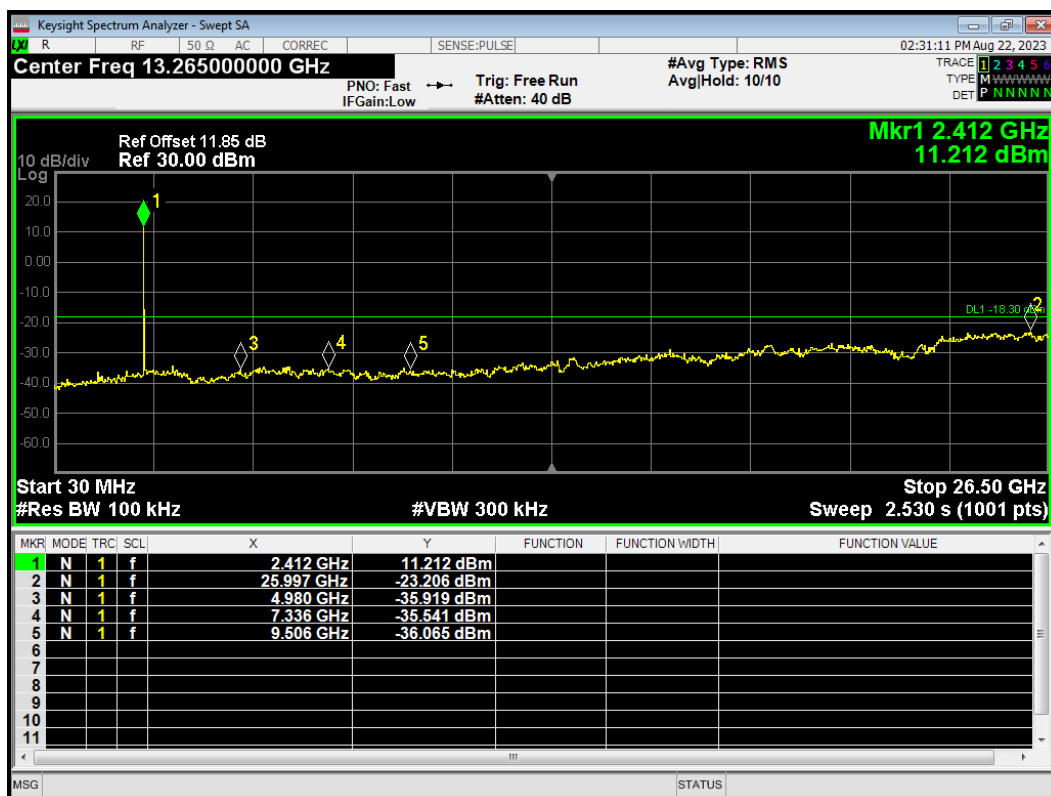
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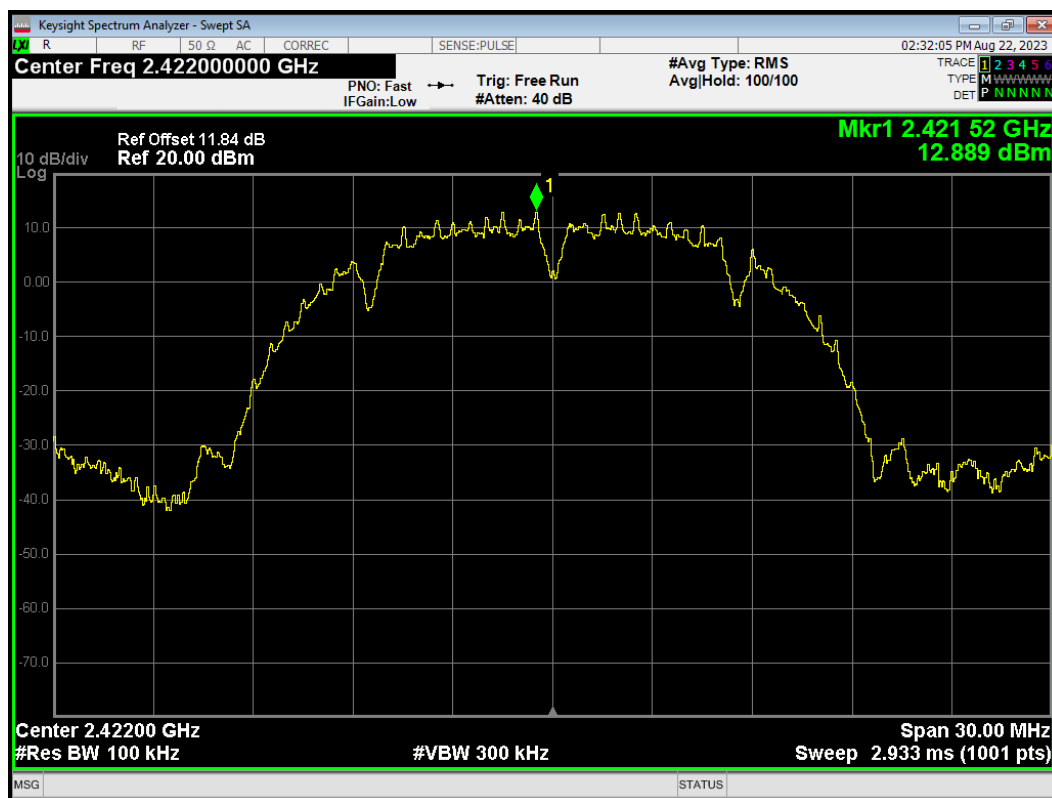
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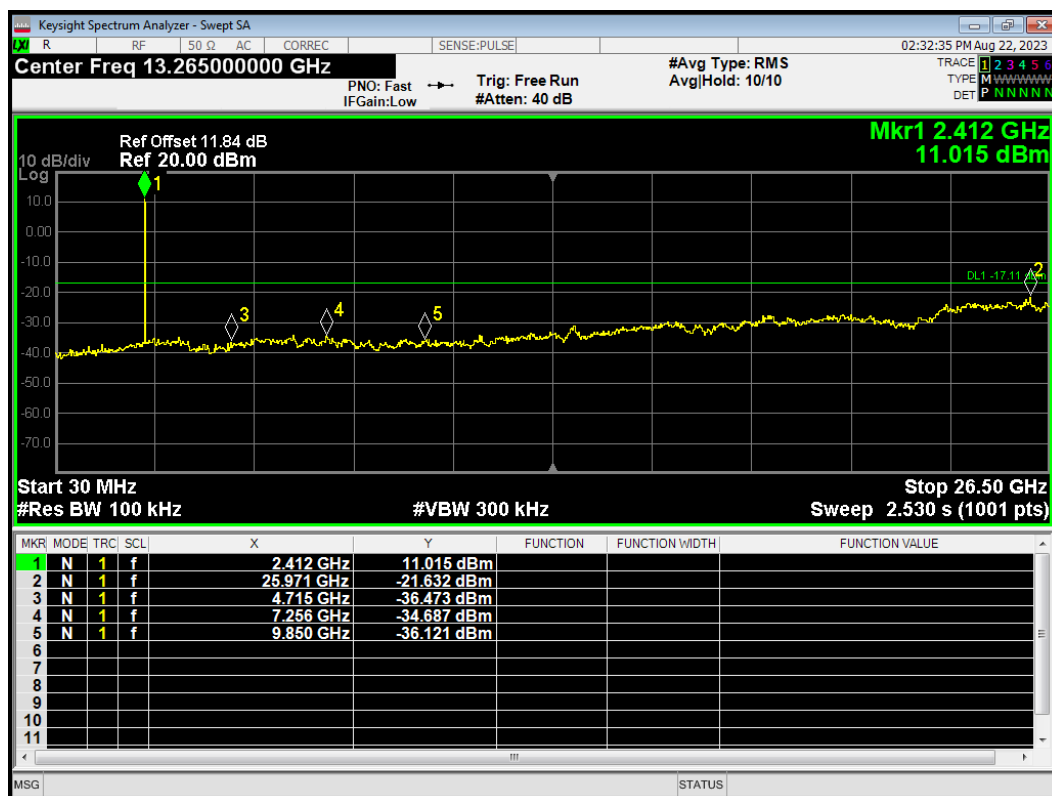
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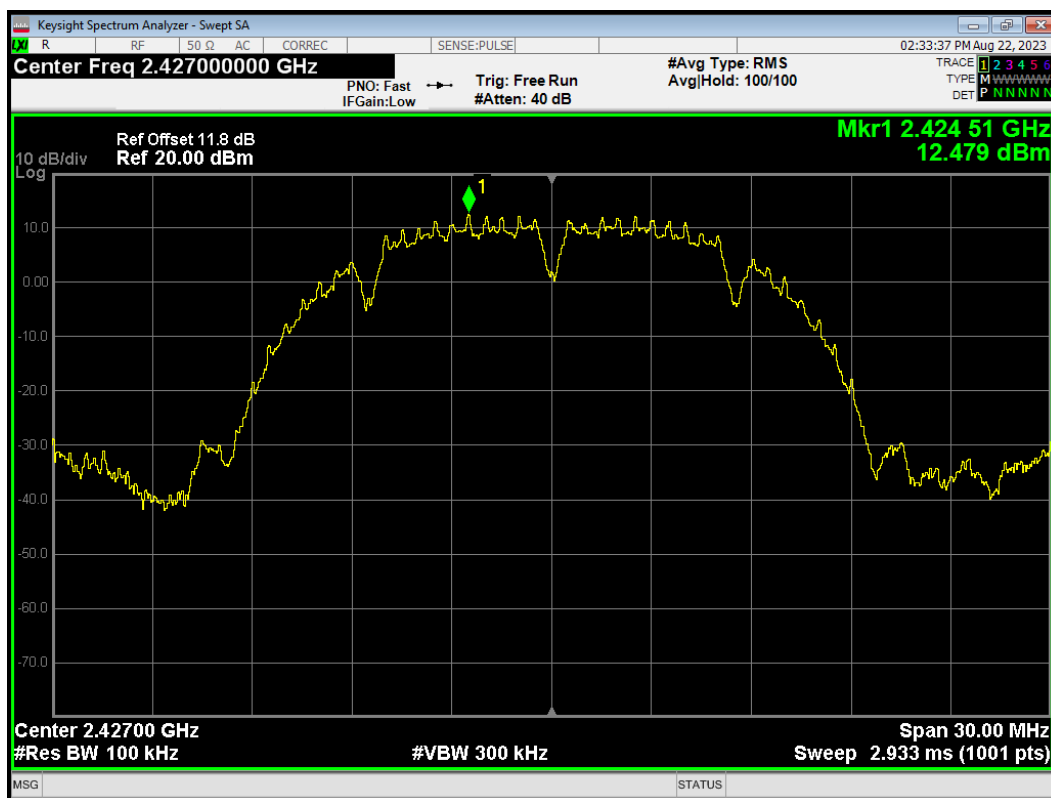
Tx. Spurious 802.11b 2422MHz Ref



Tx. Spurious 802.11b 2422MHz Emission



Tx. Spurious 802.11b 2427MHz Ref



Tx. Spurious 802.11b 2427MHz Emission

