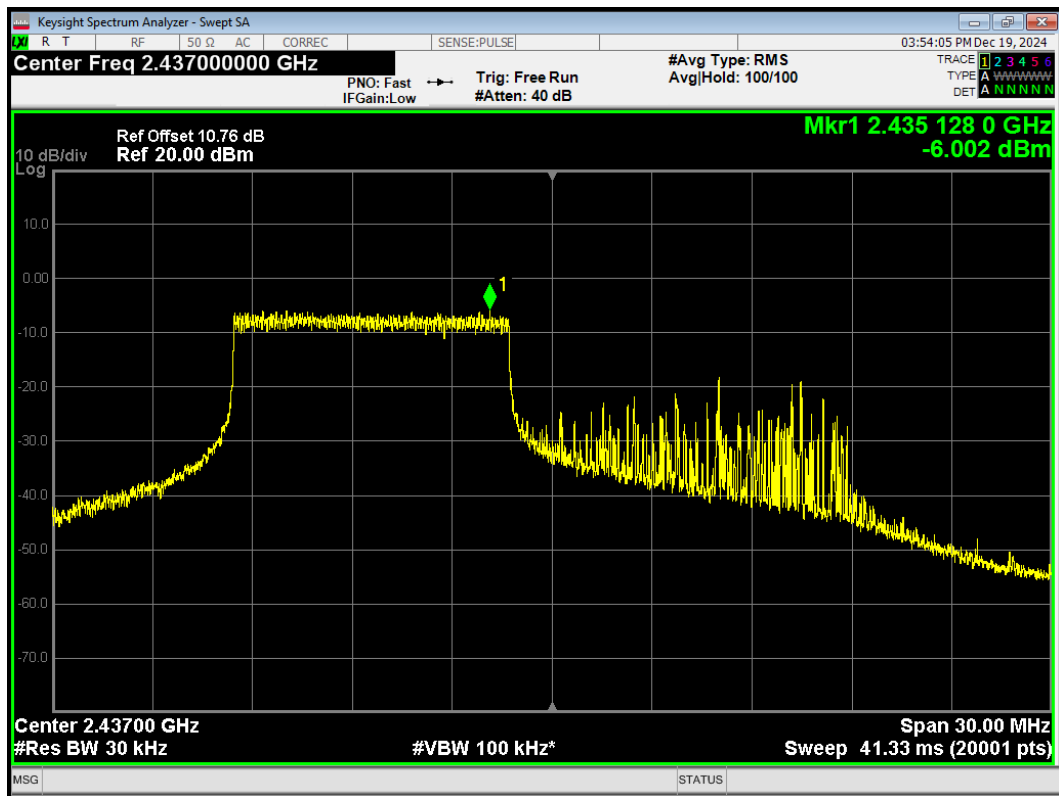
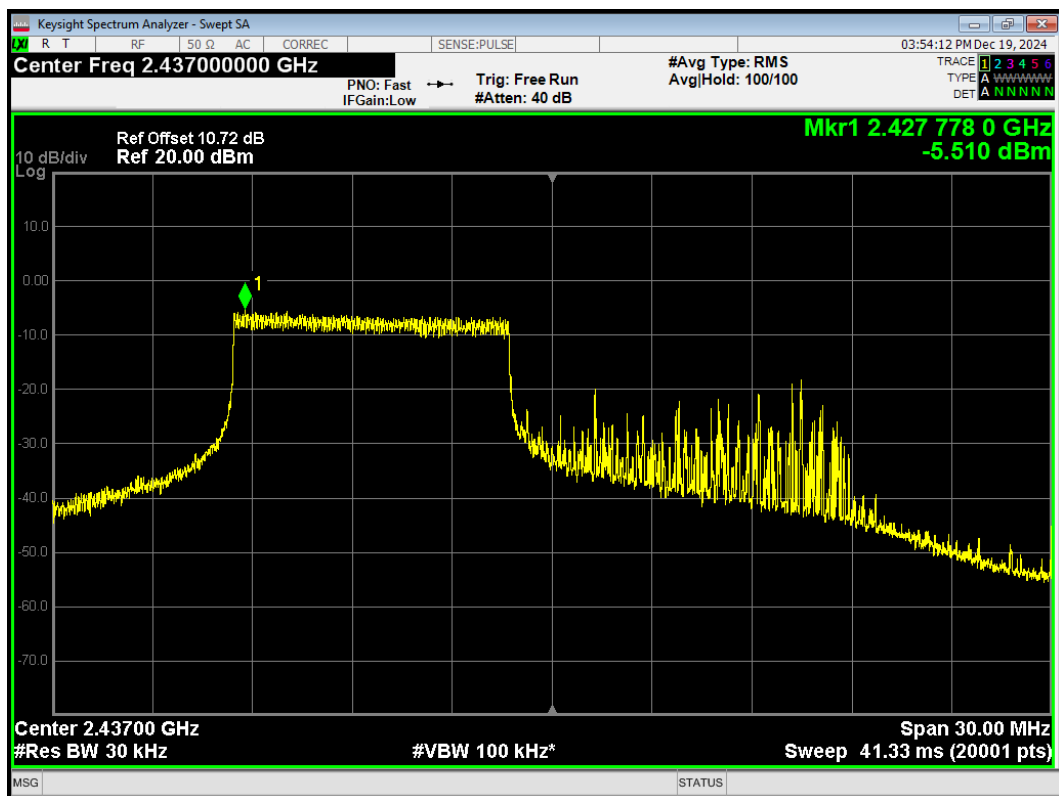


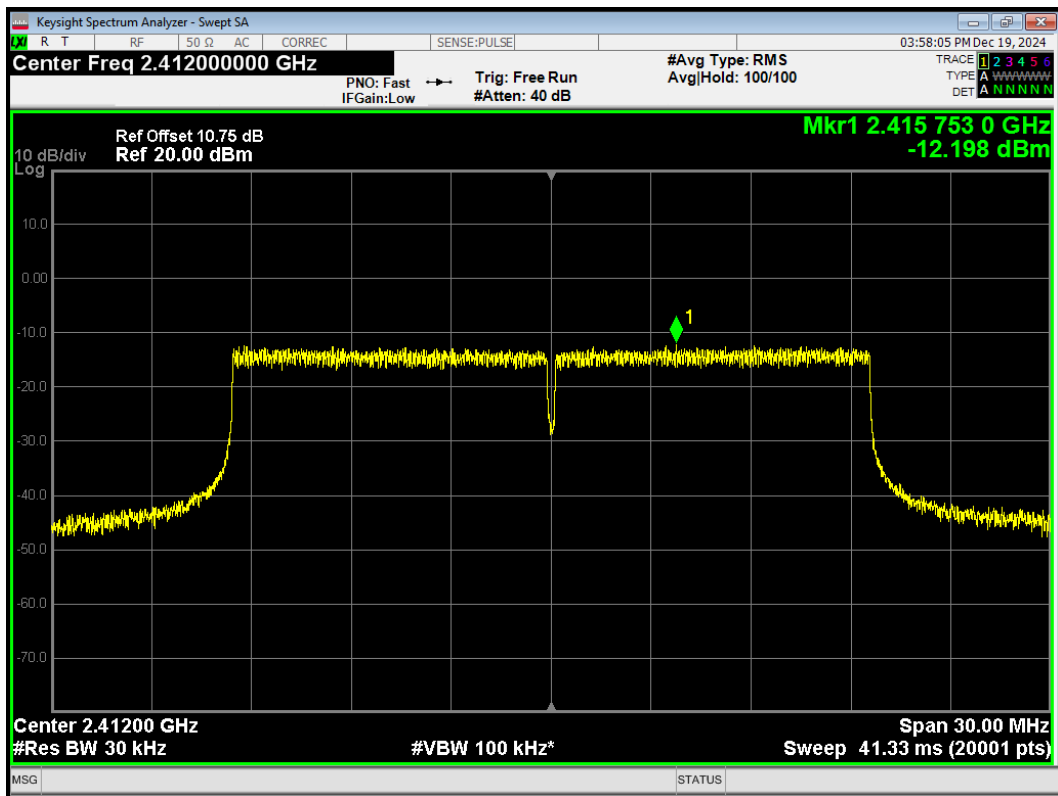
PSD 802.11ax(HE20) 106-Tones Index53 2437MHz Ant1



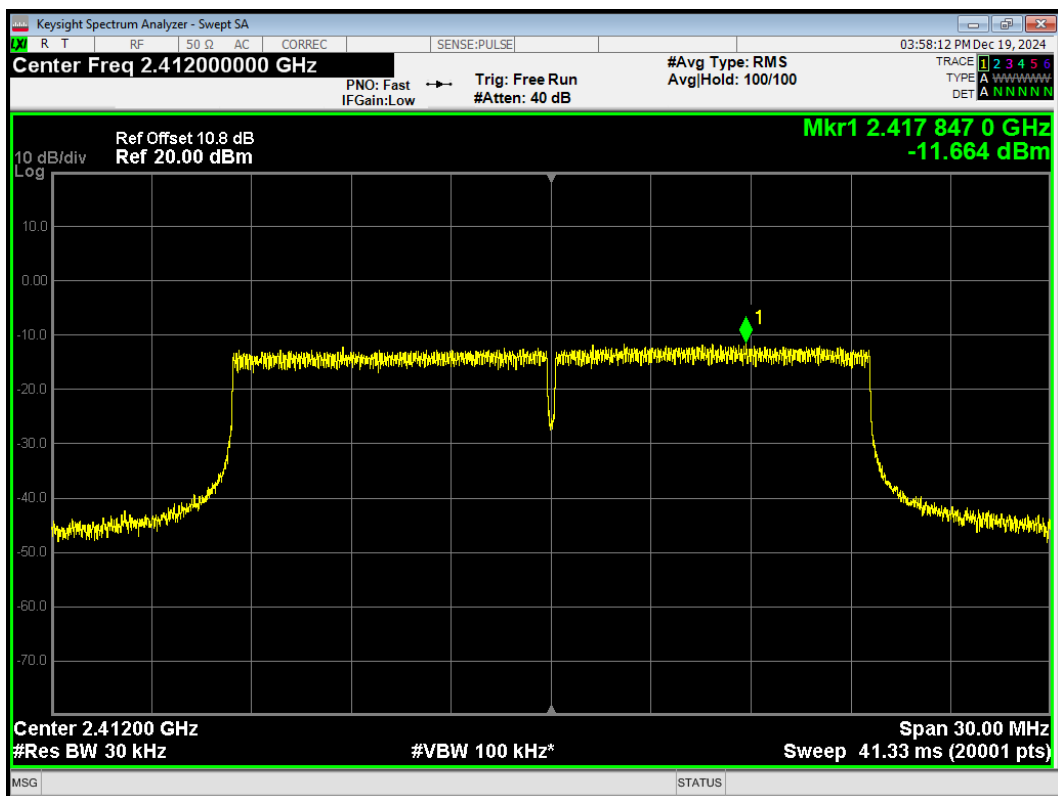
PSD 802.11ax(HE20) 106-Tones Index53 2437MHz Ant2



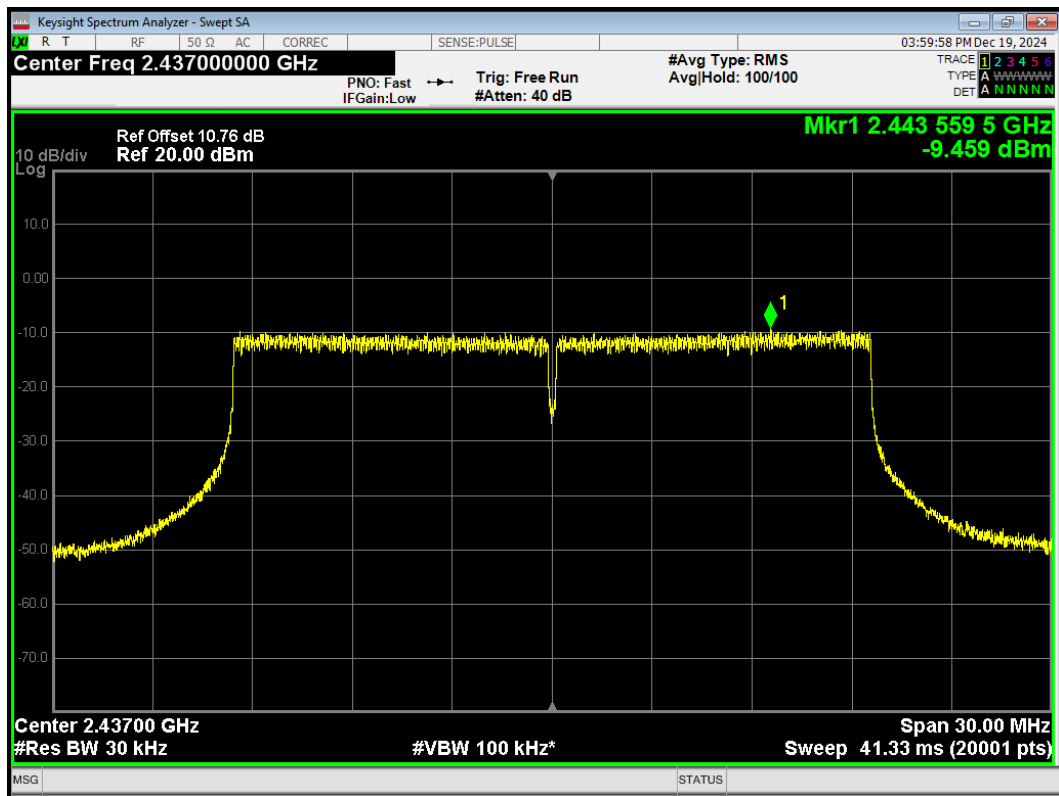
PSD 802.11ax(HE20) 242-Tones Index61 2412MHz Ant1



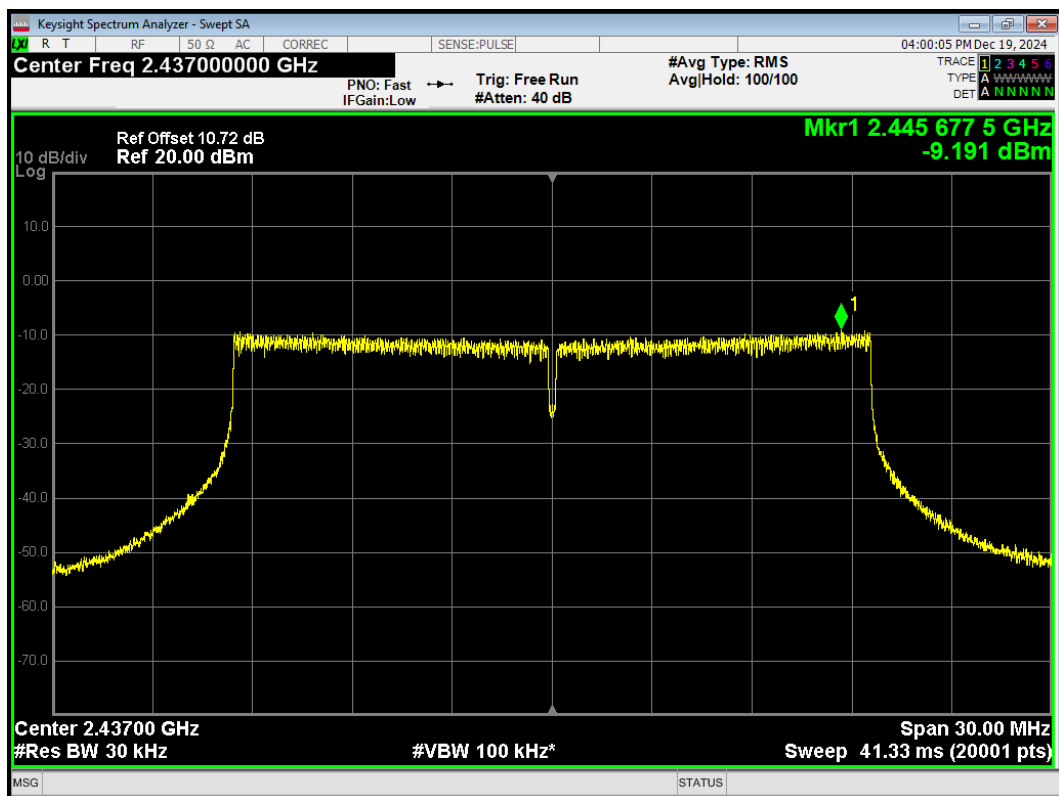
PSD 802.11ax(HE20) 242-Tones Index61 2412MHz Ant2



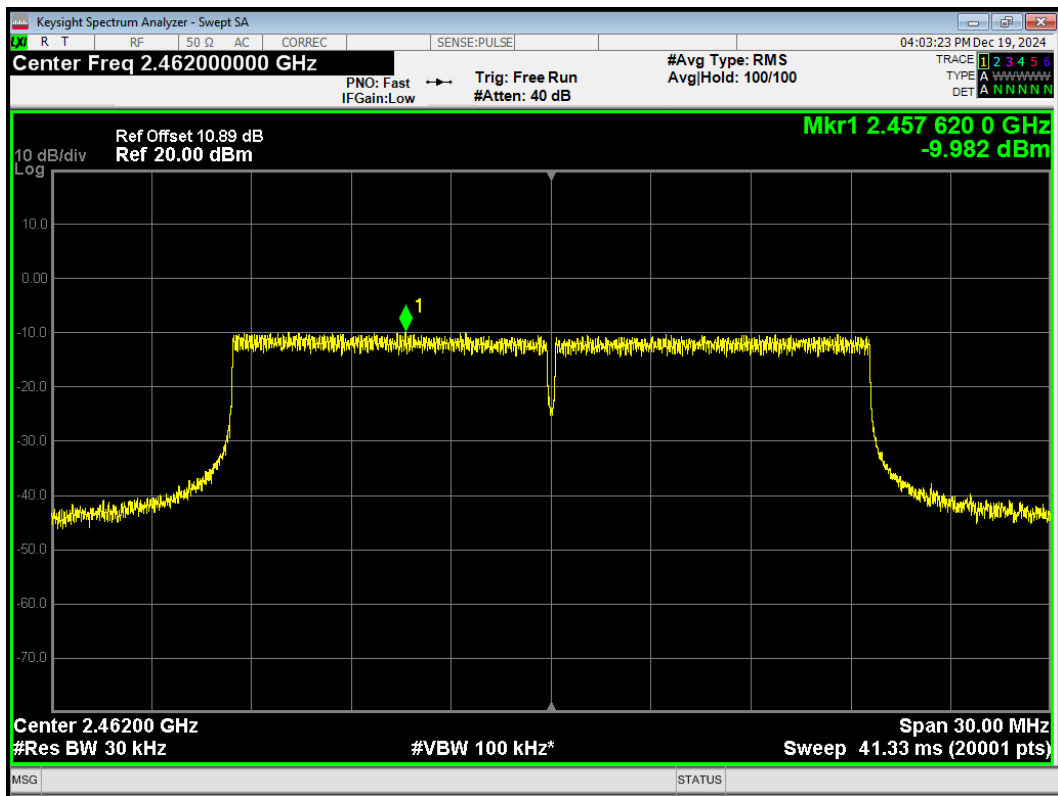
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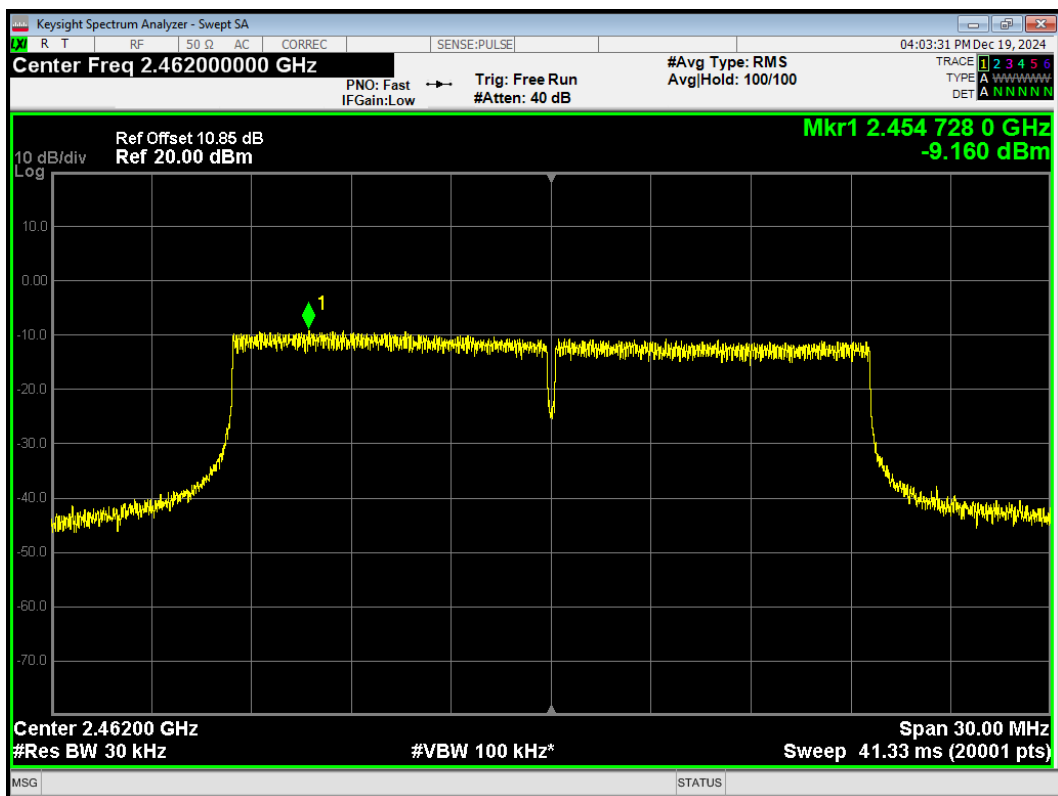
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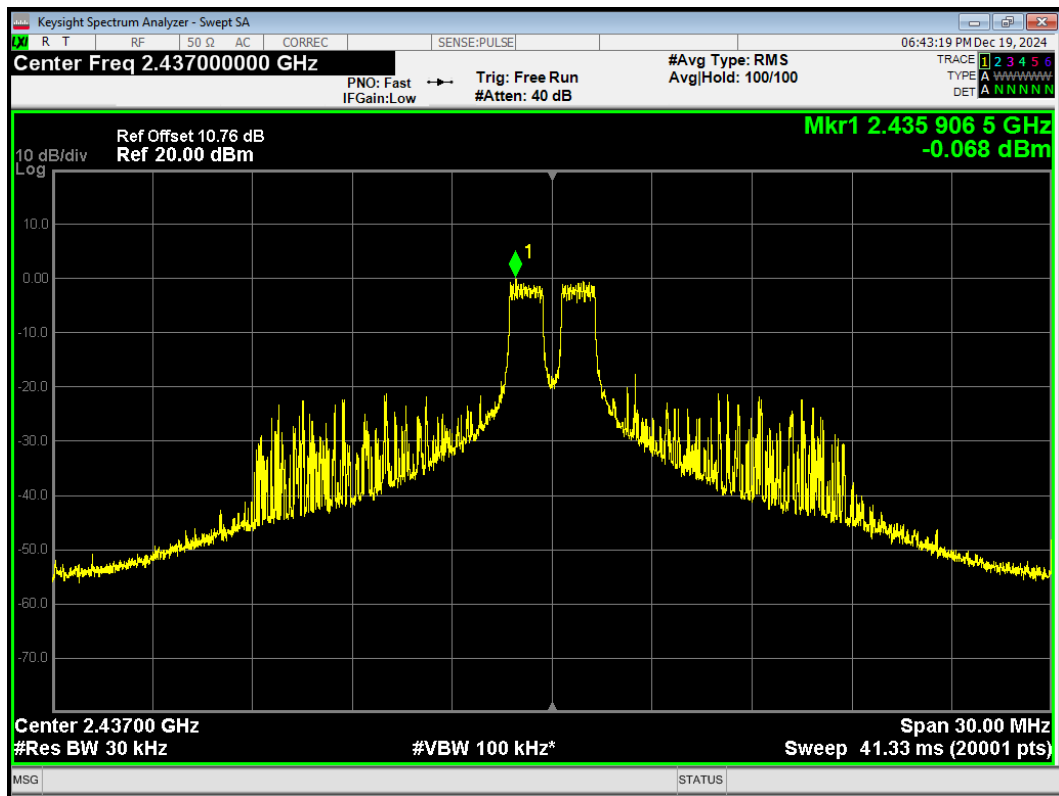
PSD 802.11ax(HE20) 242-Tones Index61 2462MHz Ant1



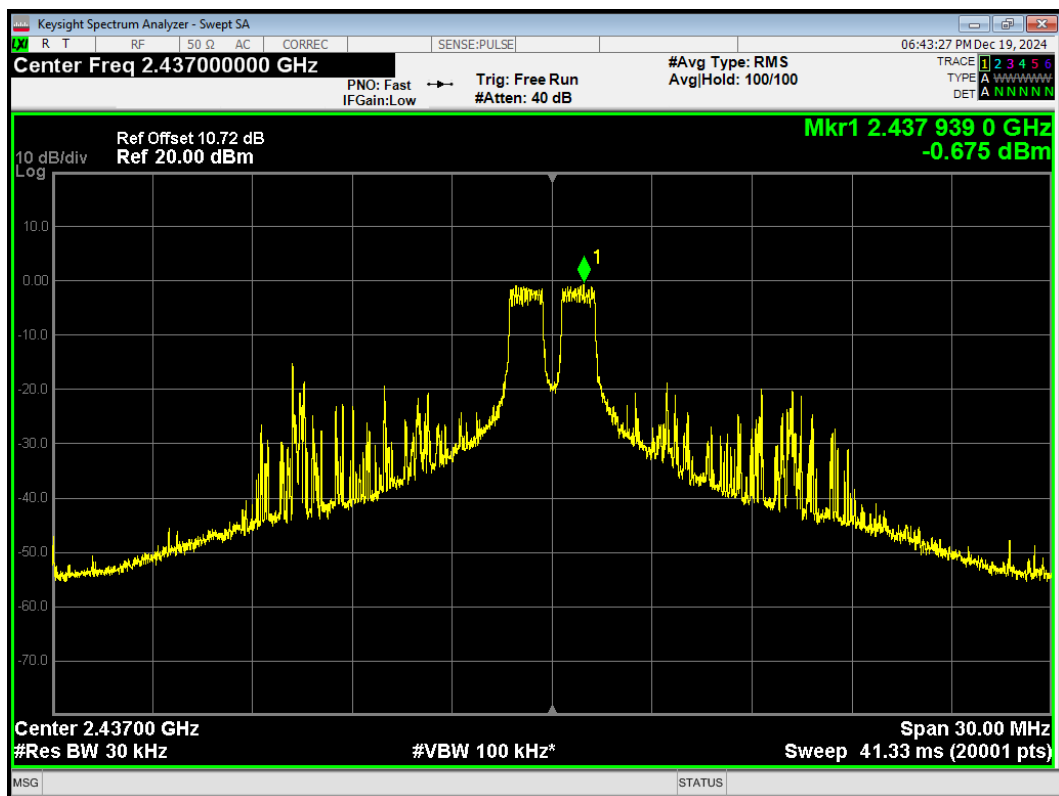
PSD 802.11ax(HE20) 242-Tones Index61 2462MHz Ant2



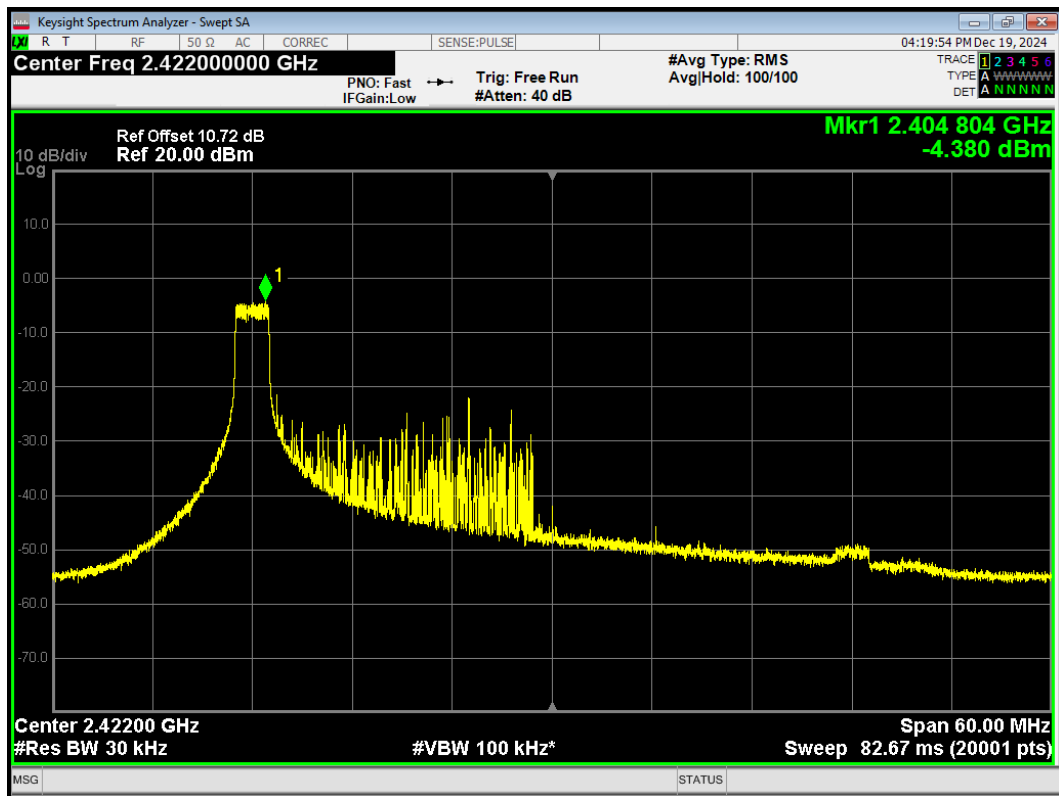
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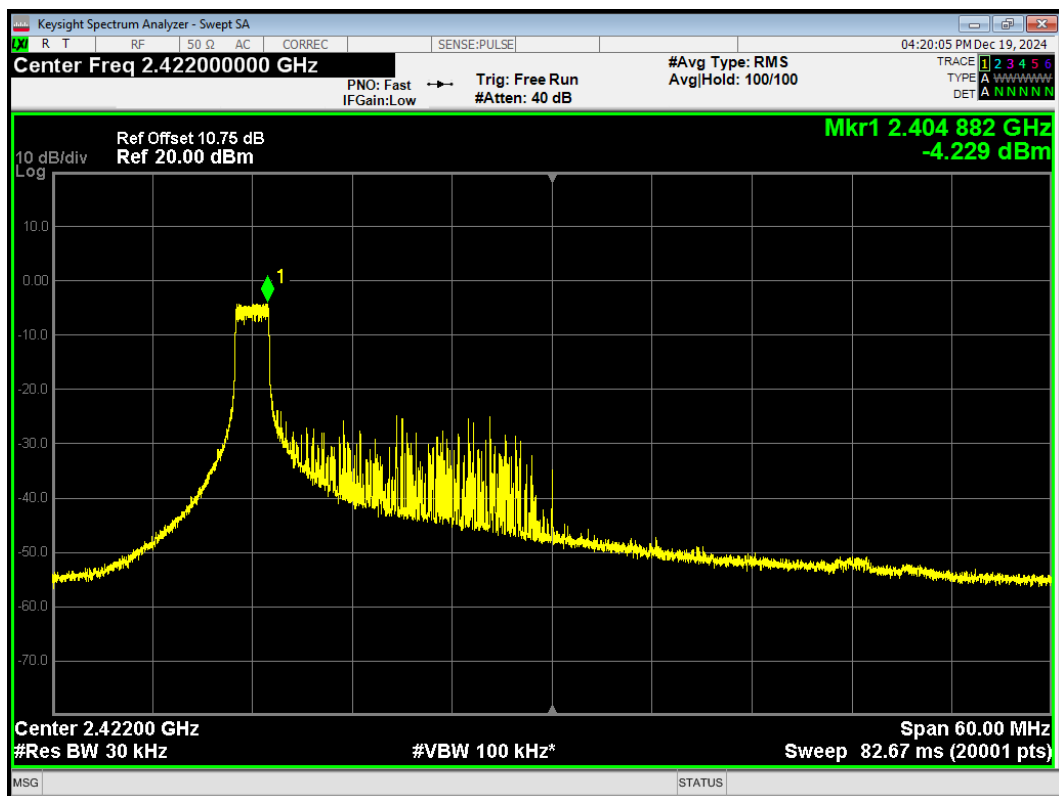
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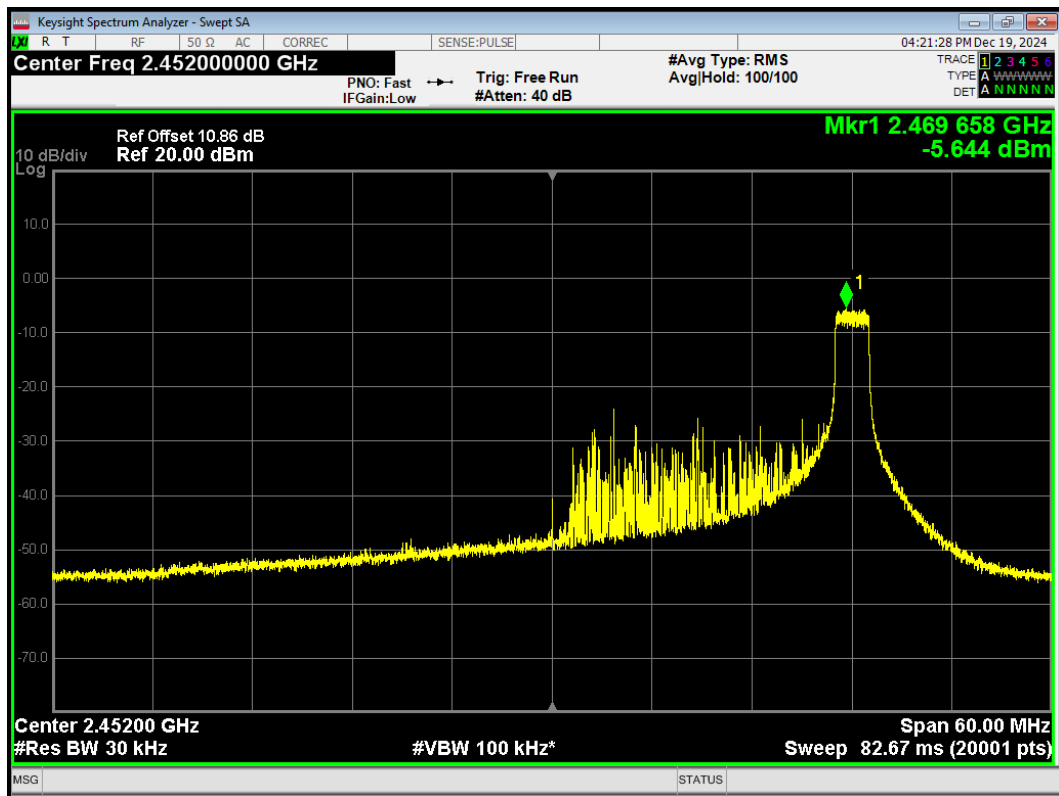
PSD 802.11ax(HE40) 26-Tones Index0 2422MHz Ant1



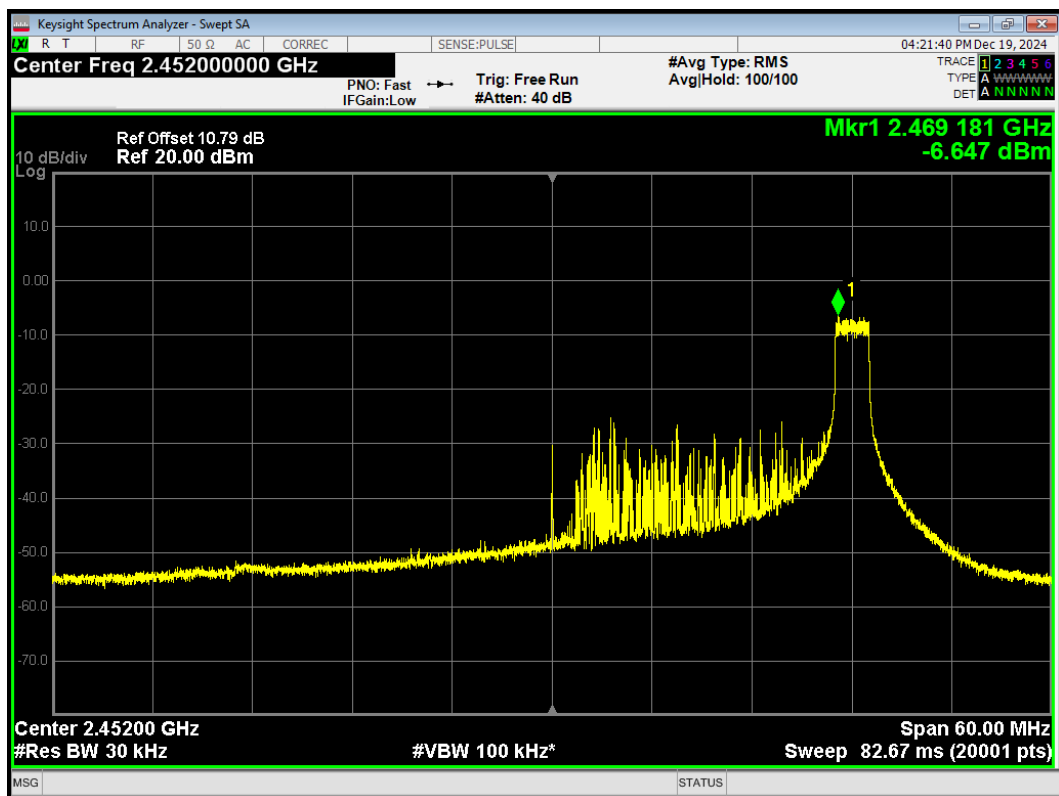
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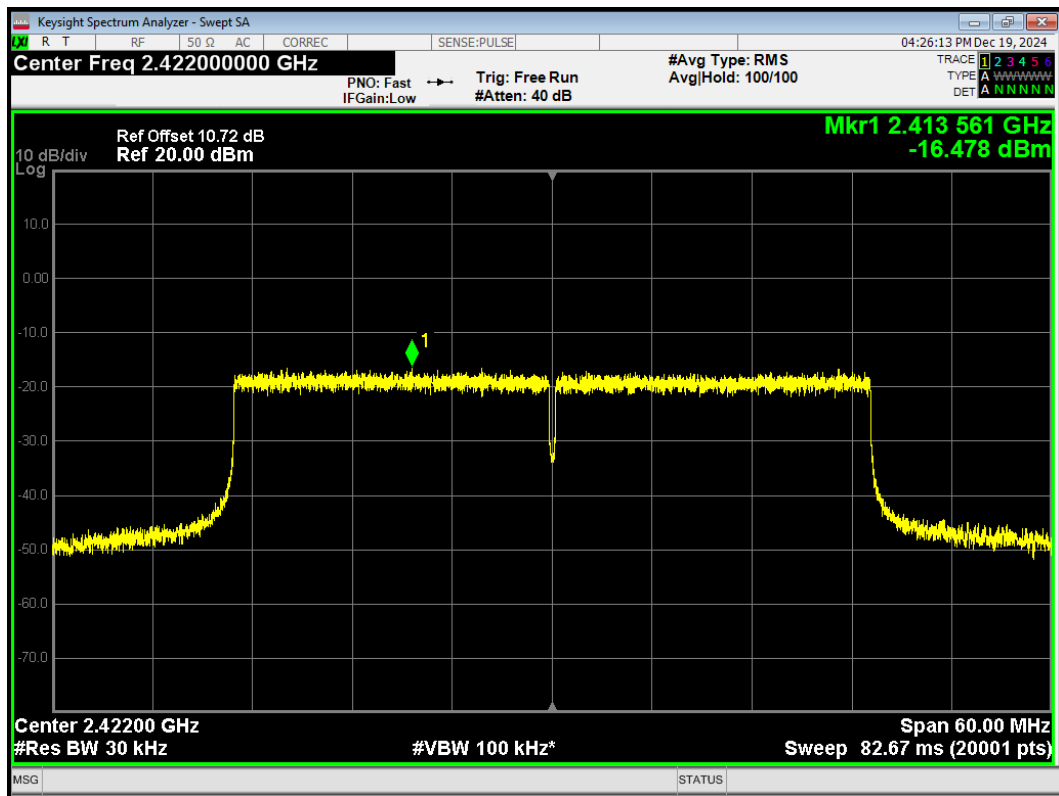
PSD 802.11ax(HE40) 26-Tones Index17 2452MHz Ant1



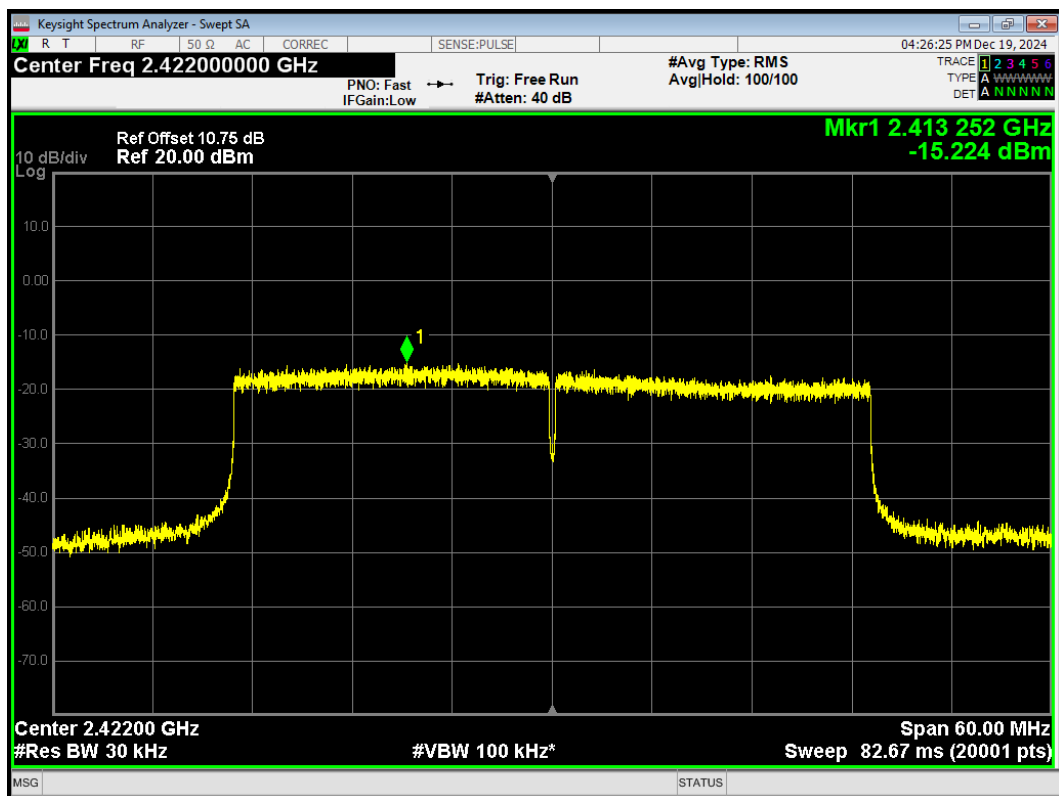
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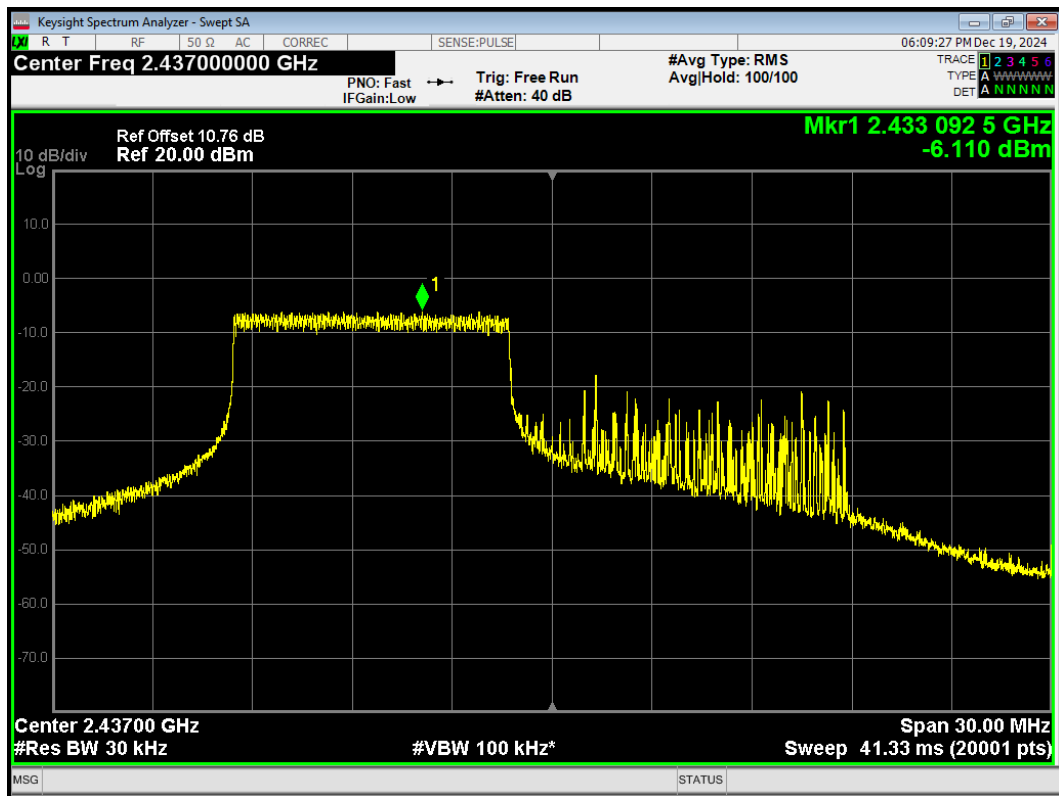
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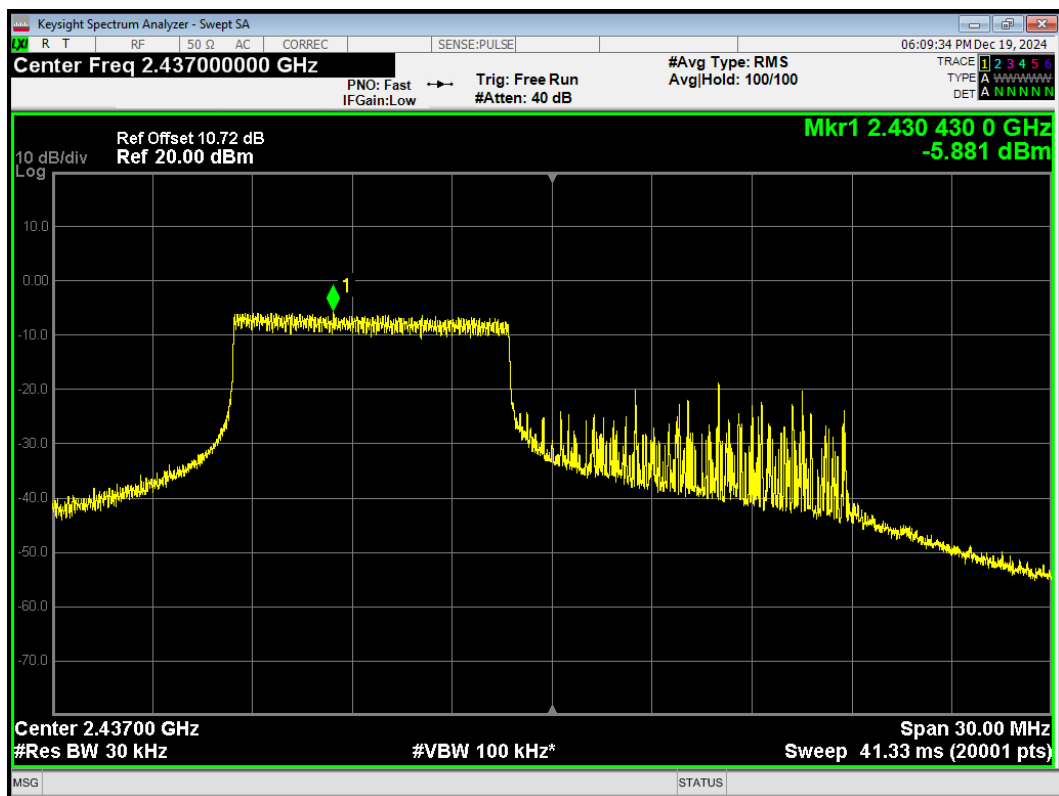
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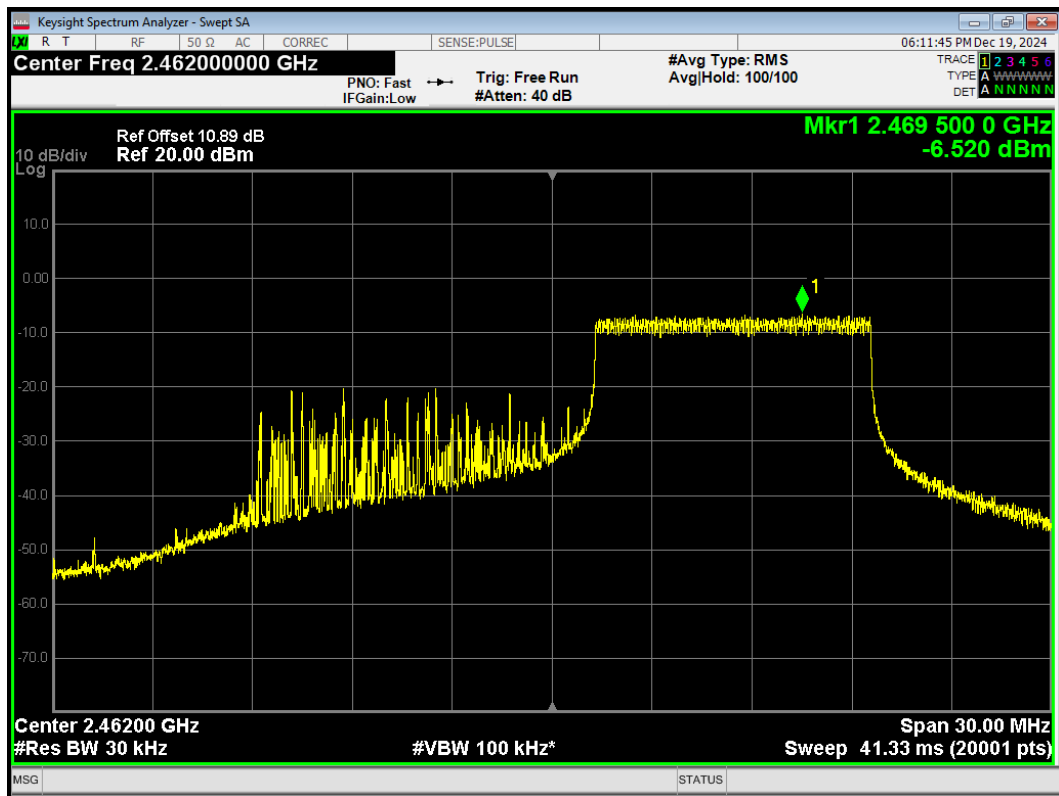
PSD 802.11be(20) 106-Tones Index53 2437MHz Ant1



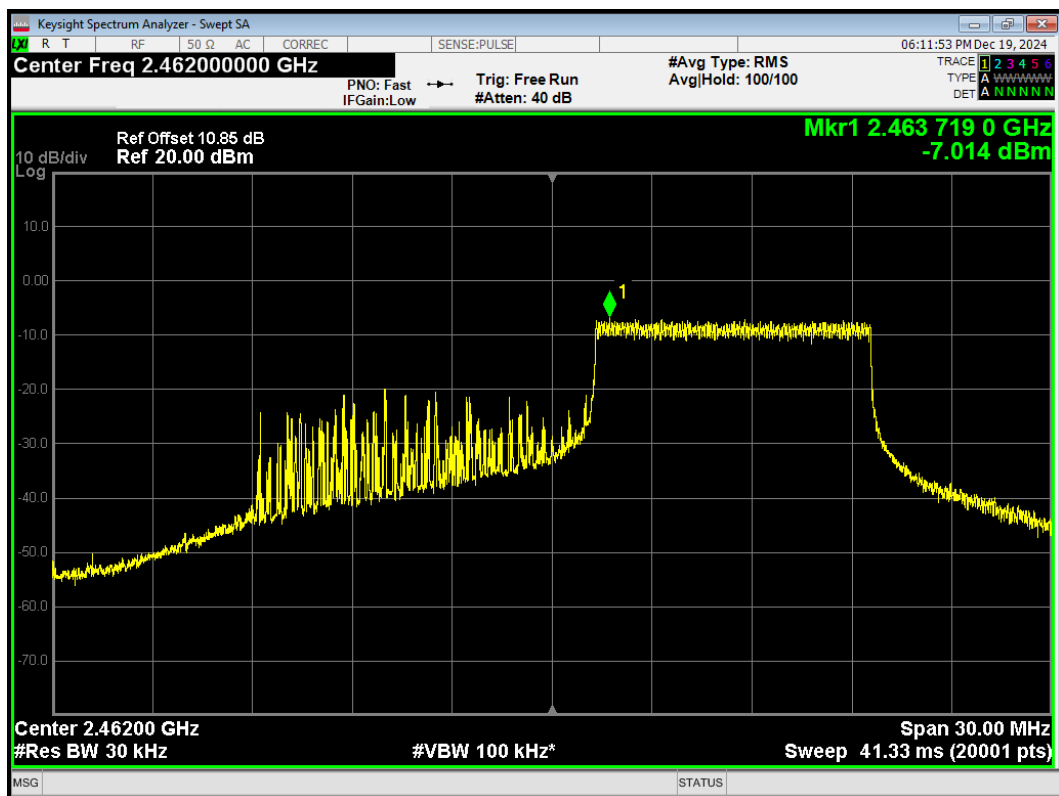
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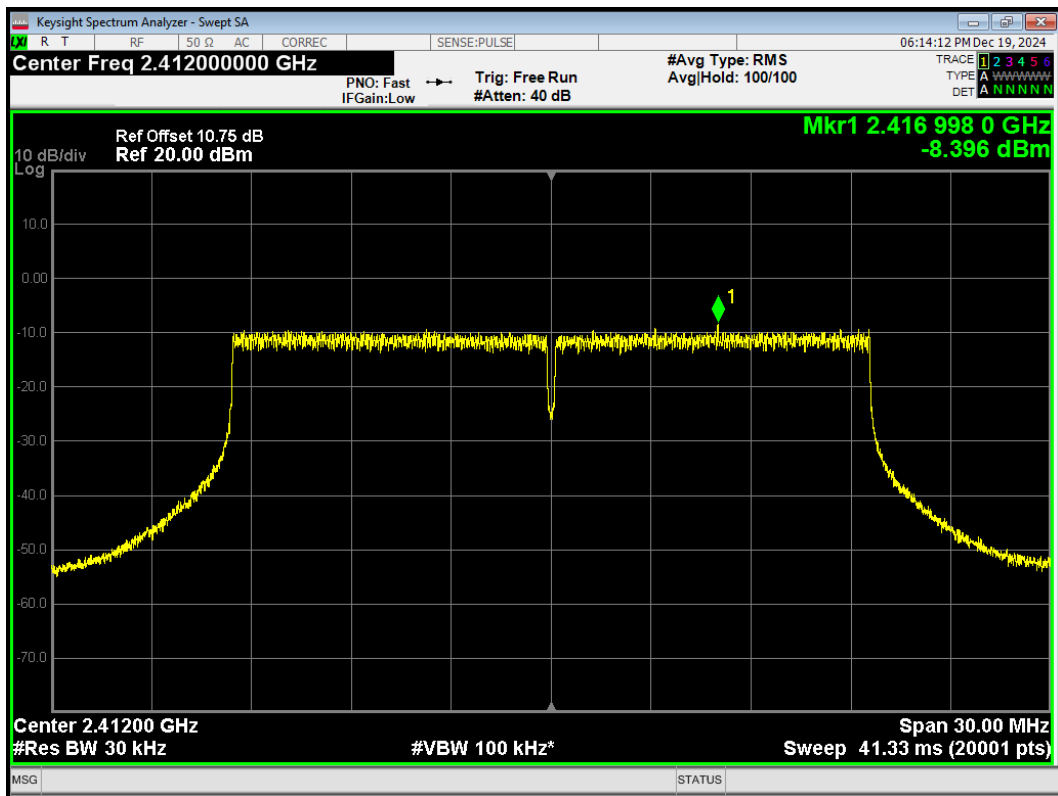
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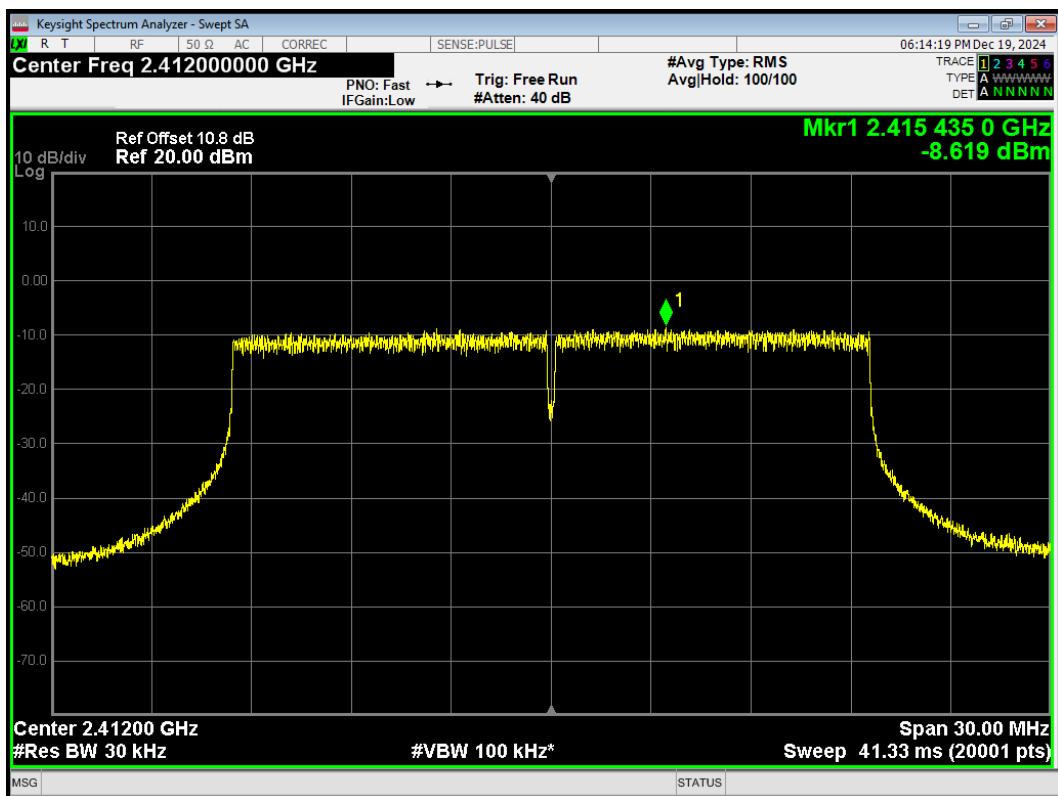
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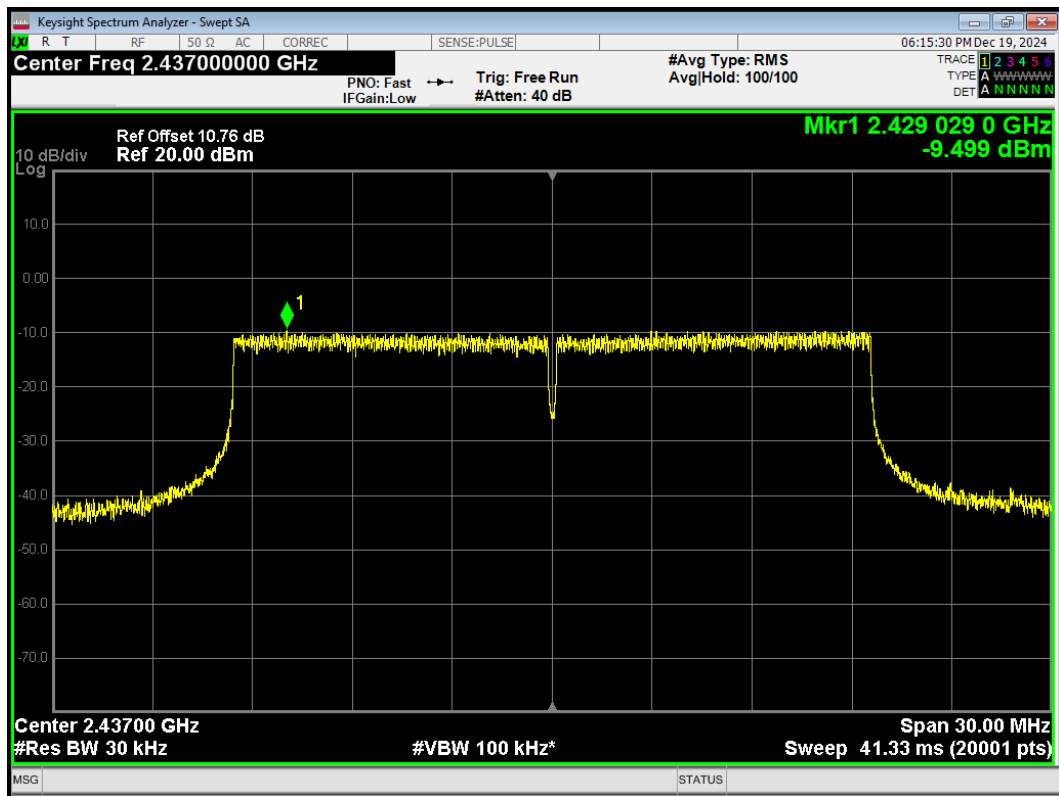
PSD 802.11be(20) 242-Tones Index61 2412MHz Ant1



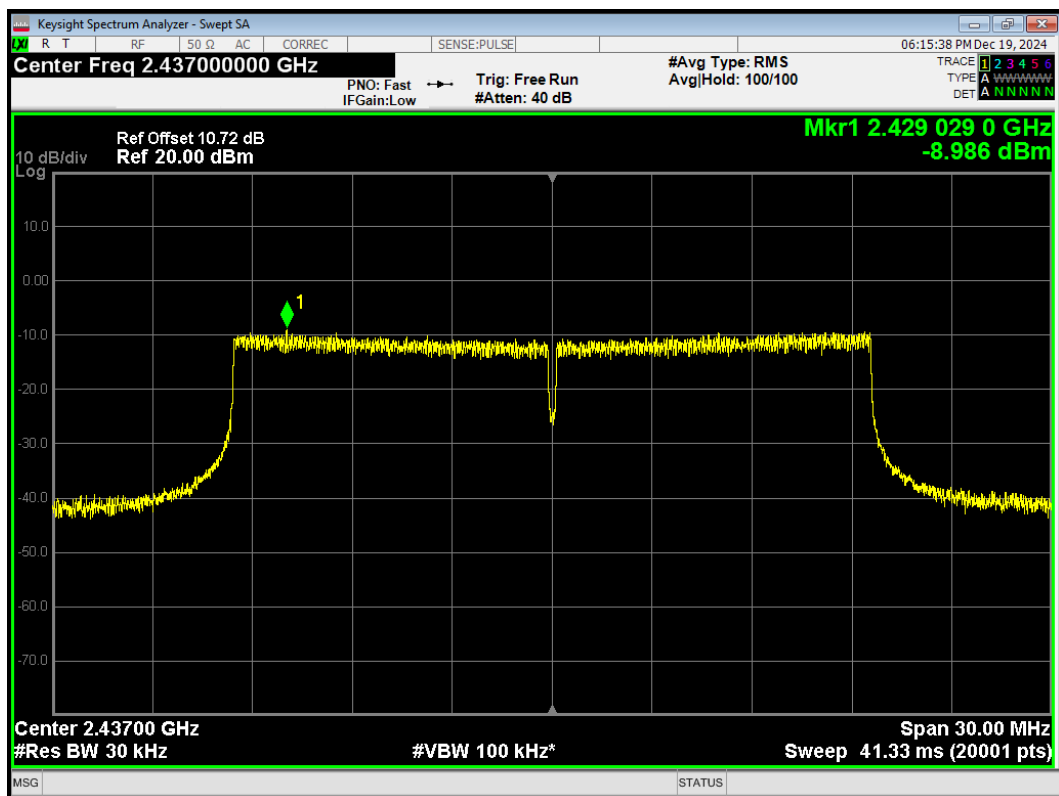
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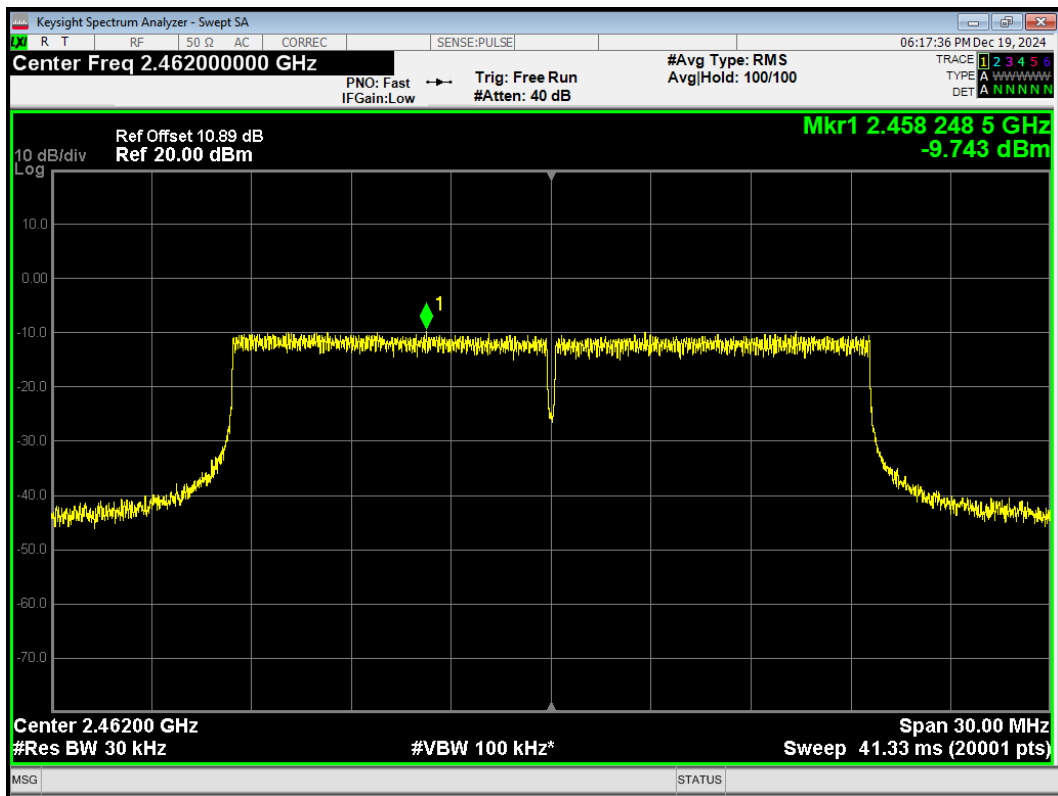
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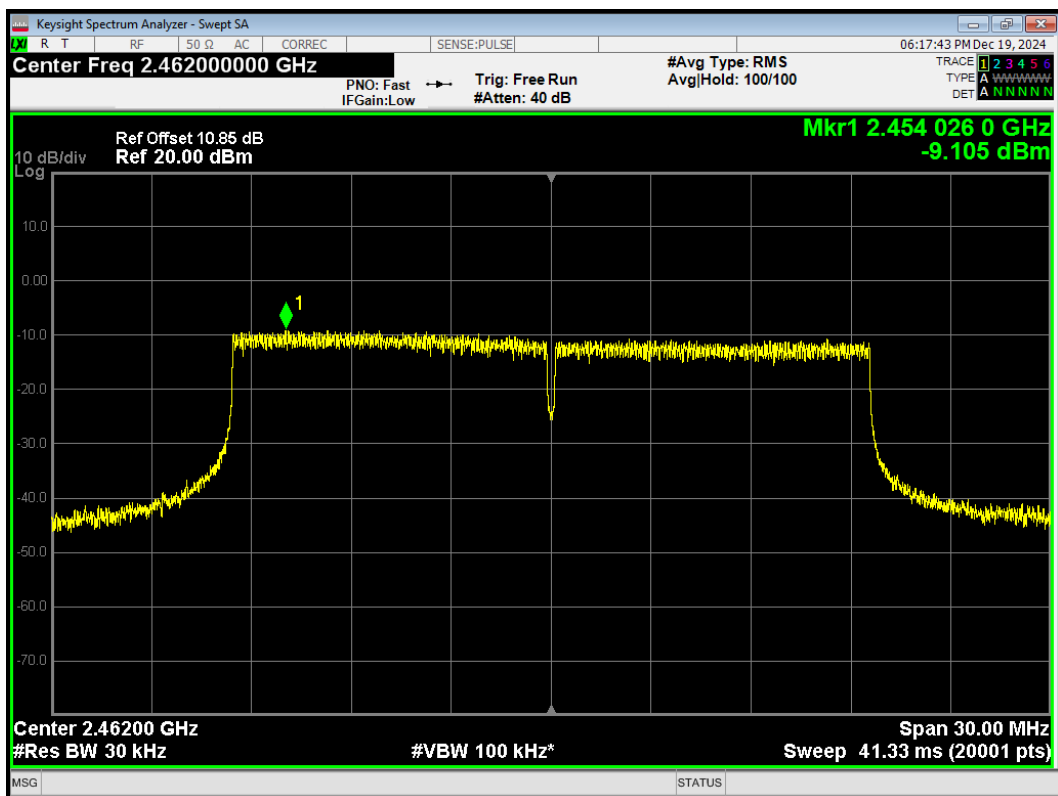
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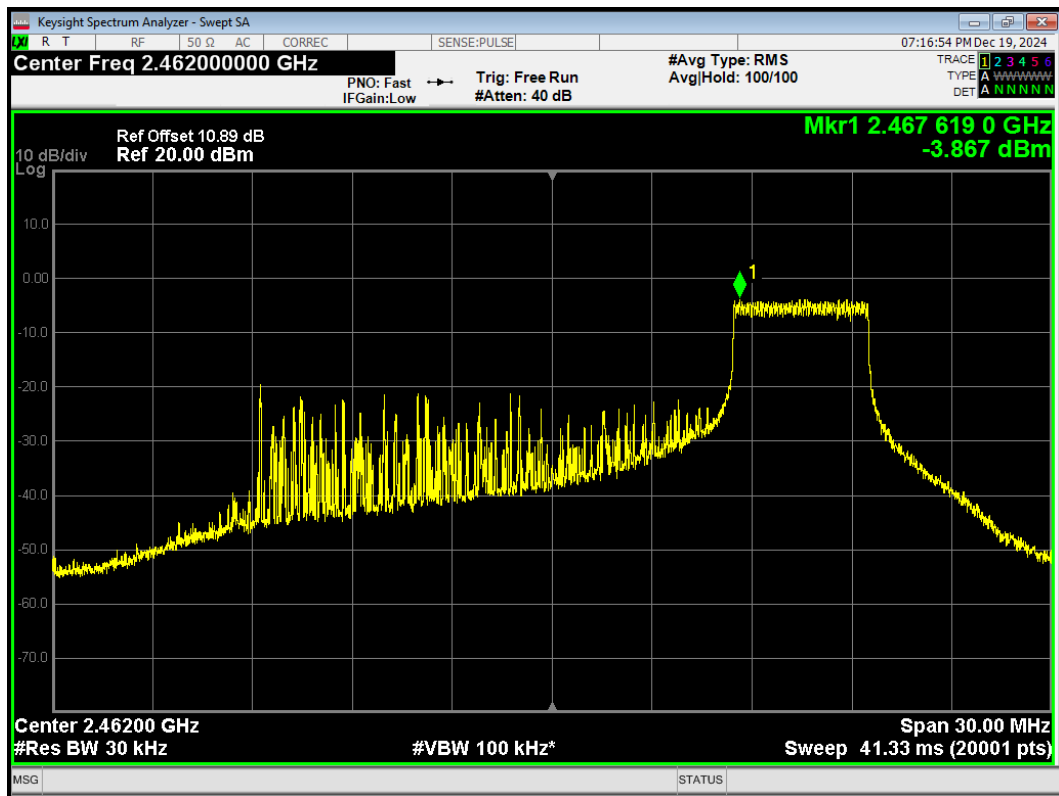
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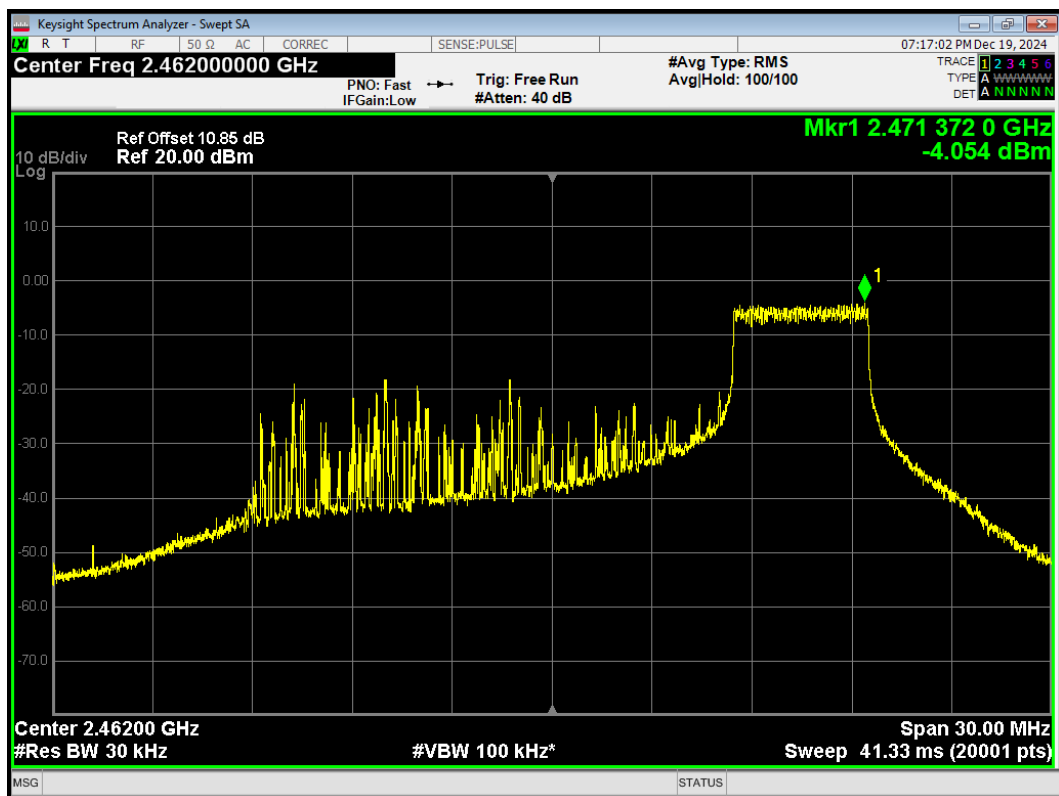
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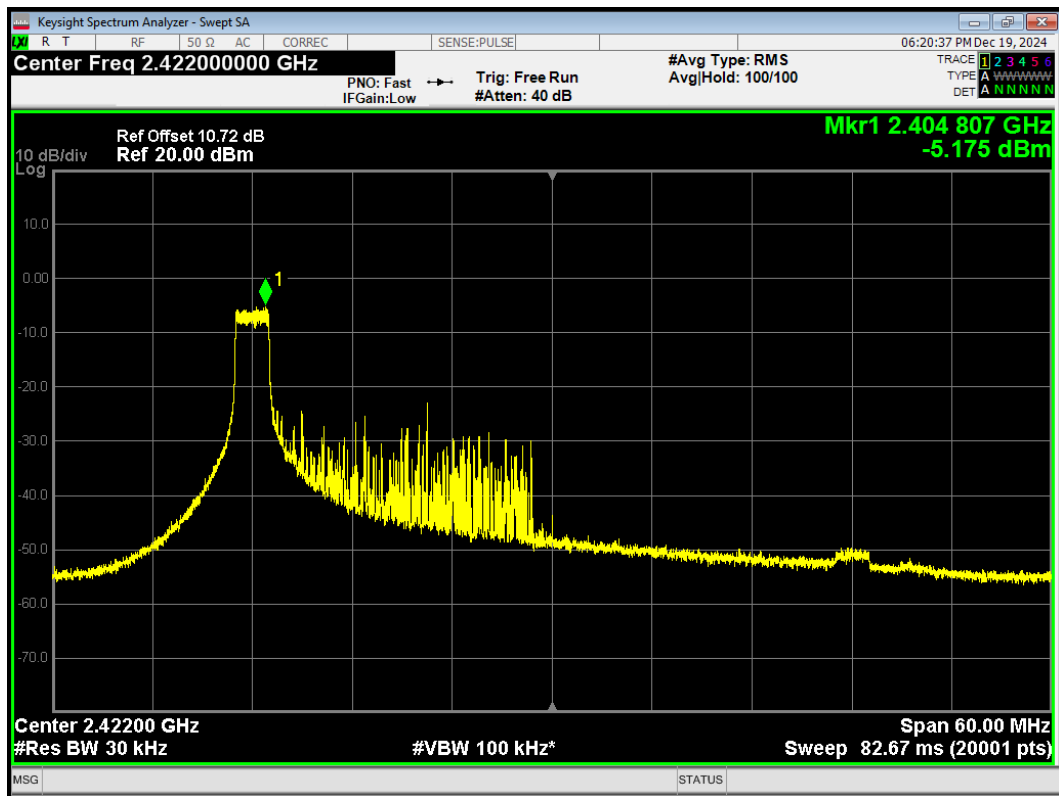
PSD 802.11be(20) 52-Tones Index40 2462MHz Ant1



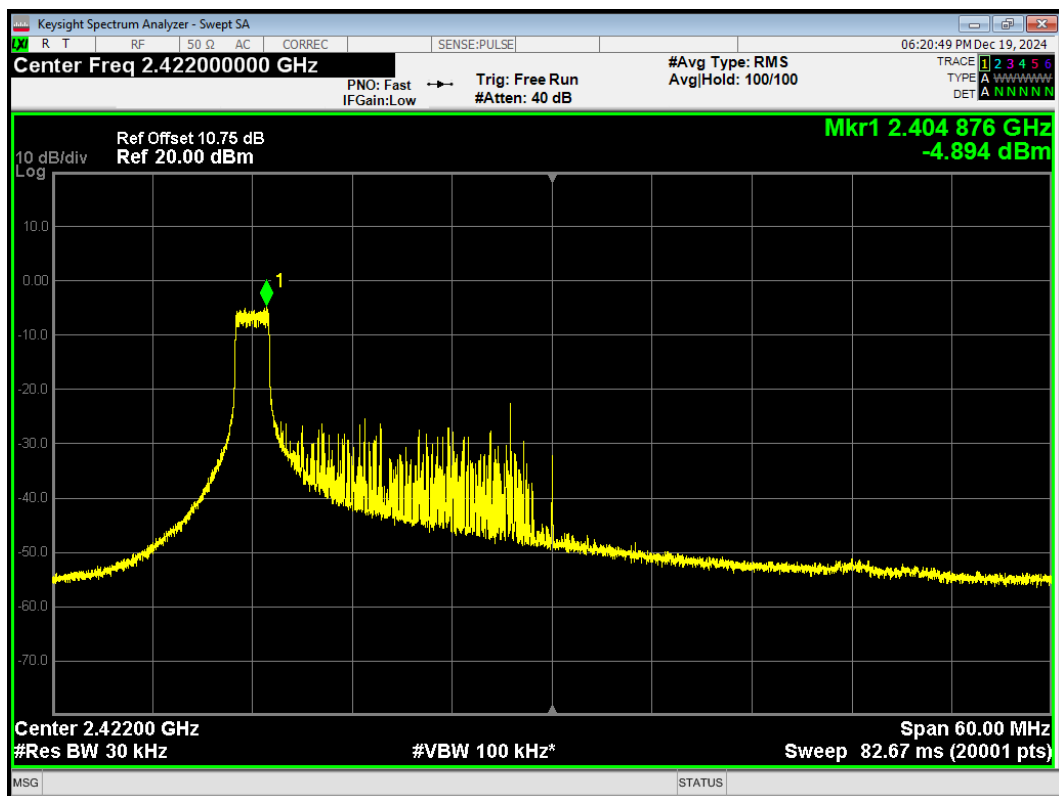
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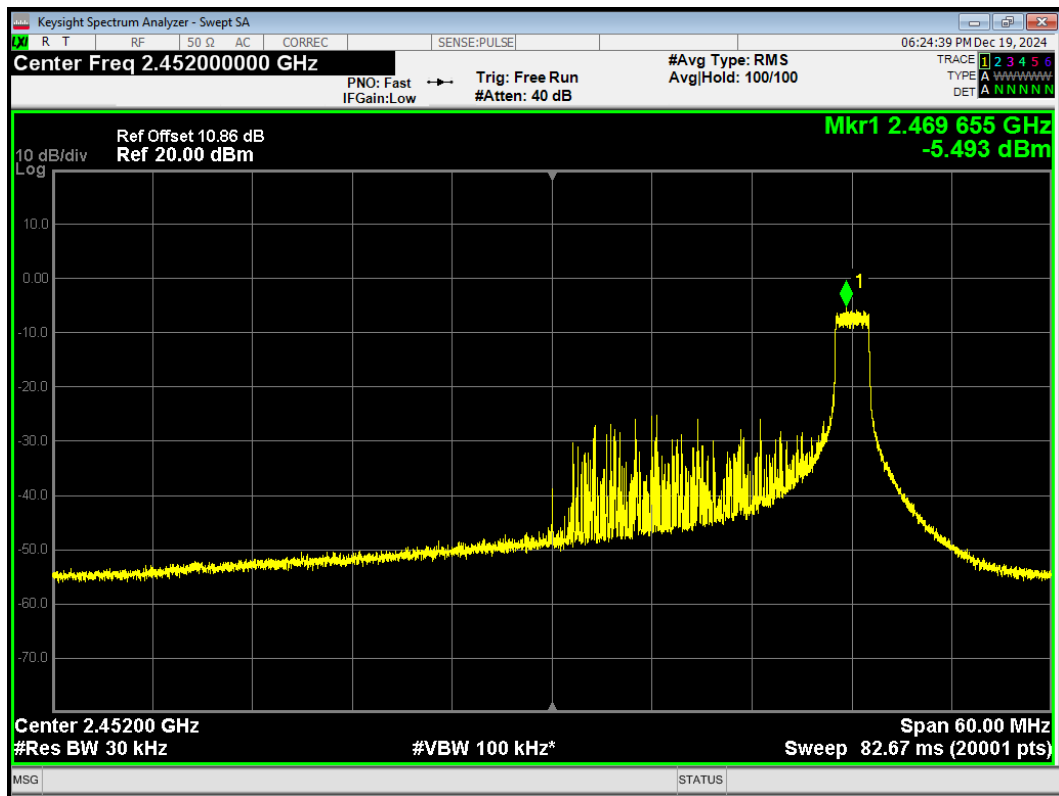
PSD 802.11be(40) 26-Tones Index0 2422MHz Ant1



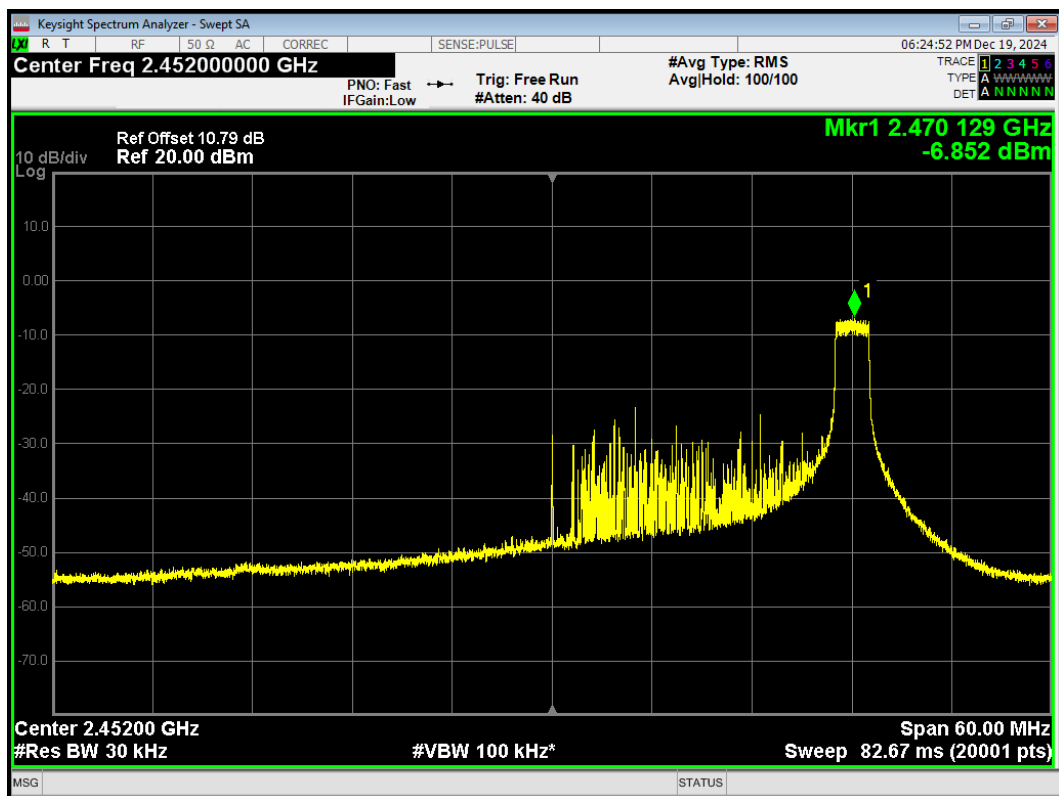
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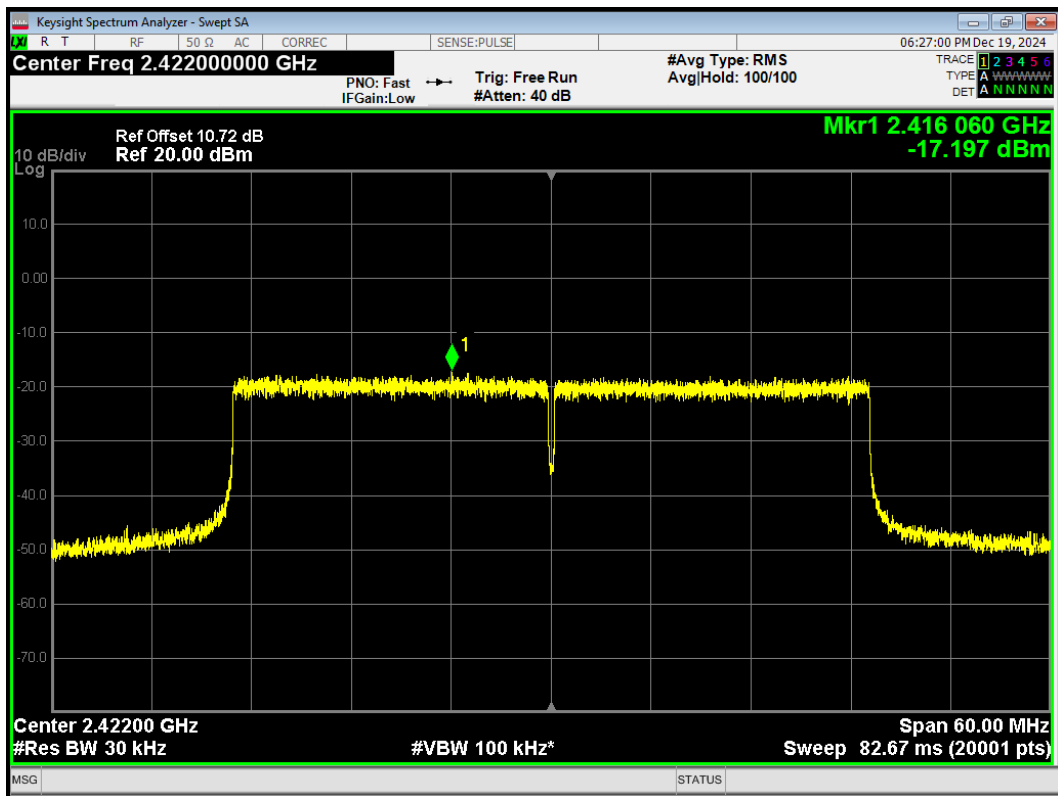
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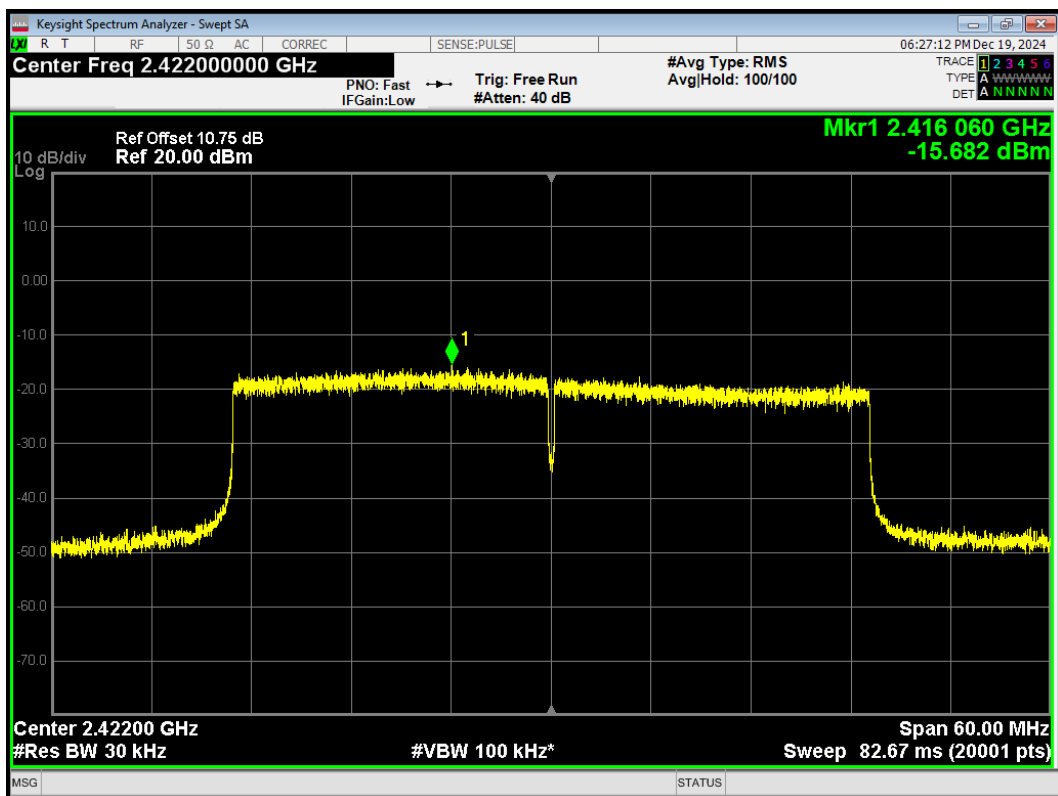
PSD 802.11be(40) 26-Tones Index17 2452MHz Ant2



PSD 802.11be(40) 484-Tones Index65 2422MHz Ant1

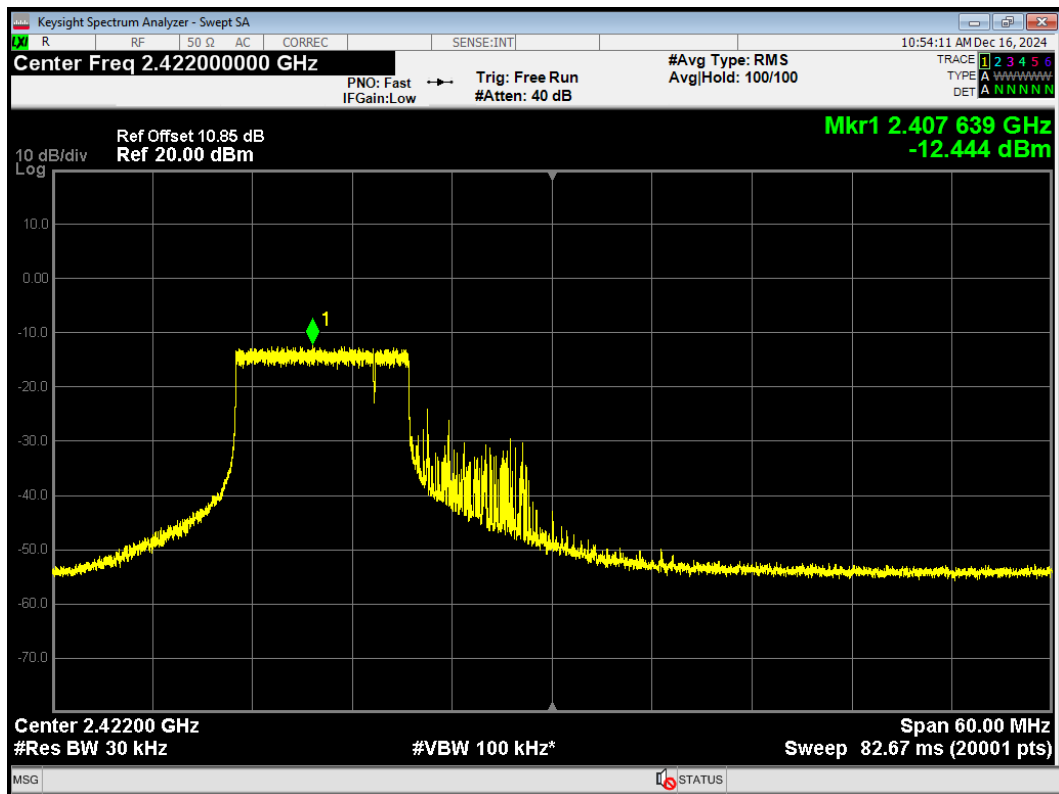


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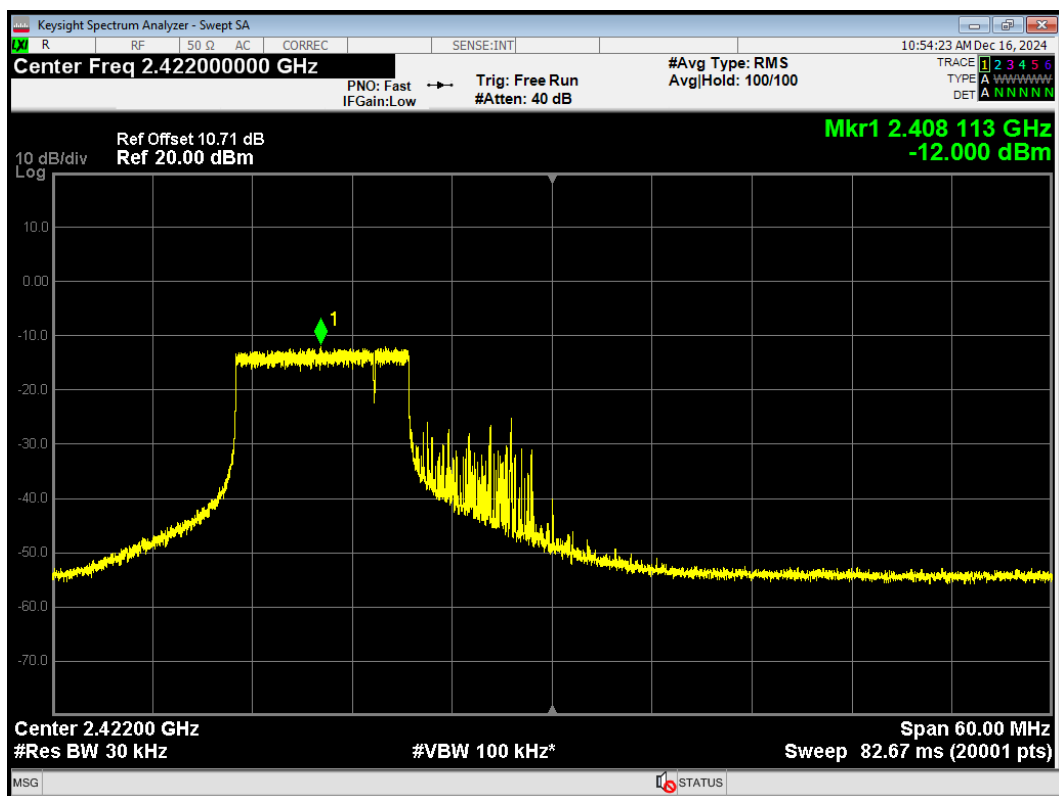


MRU Mode

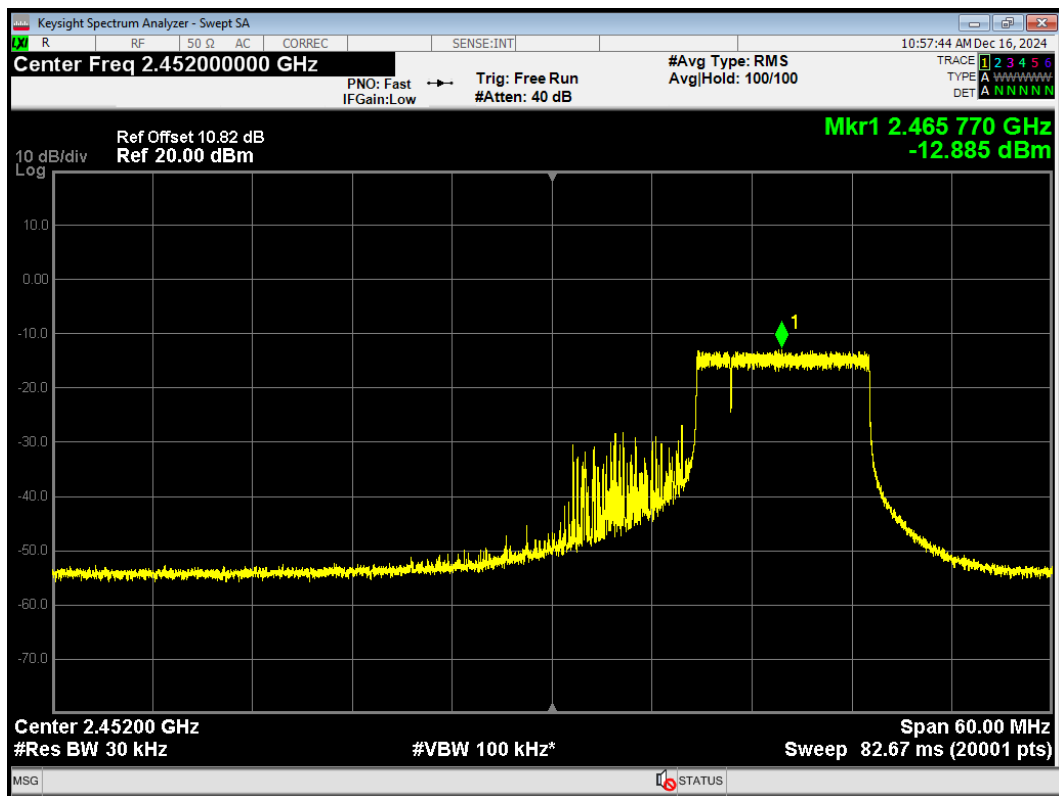
PSD 802.11be BE40 RU 106+26 Tones 2422MHz Ant1



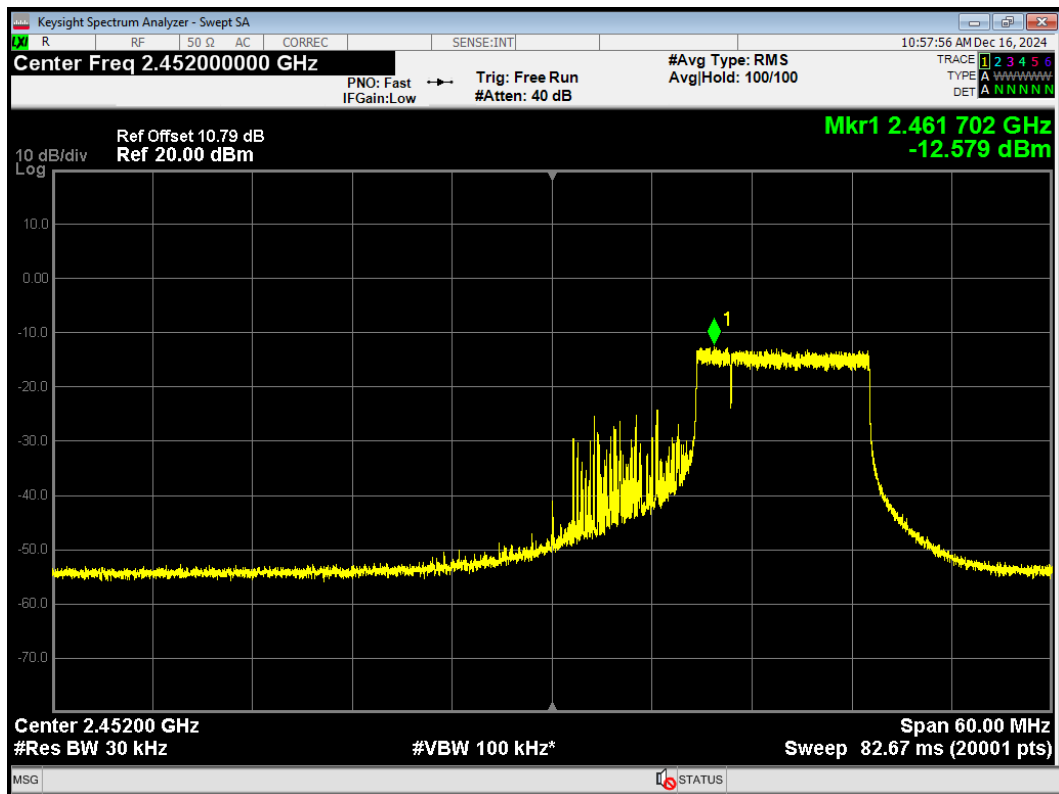
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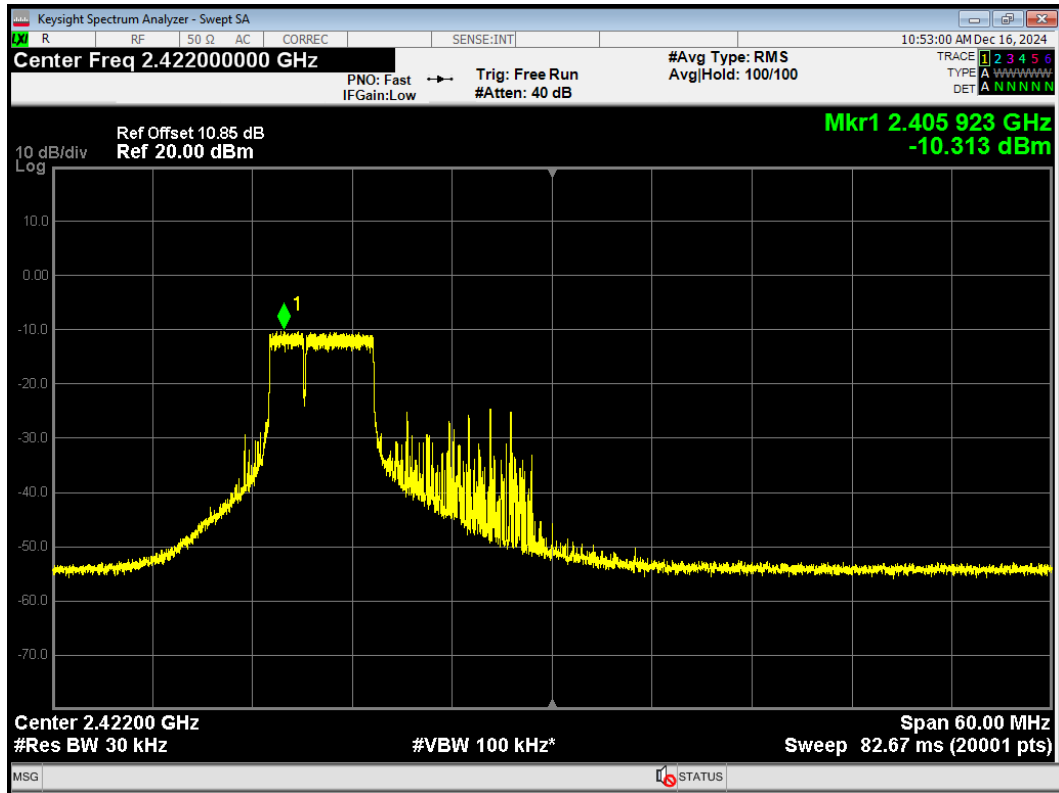
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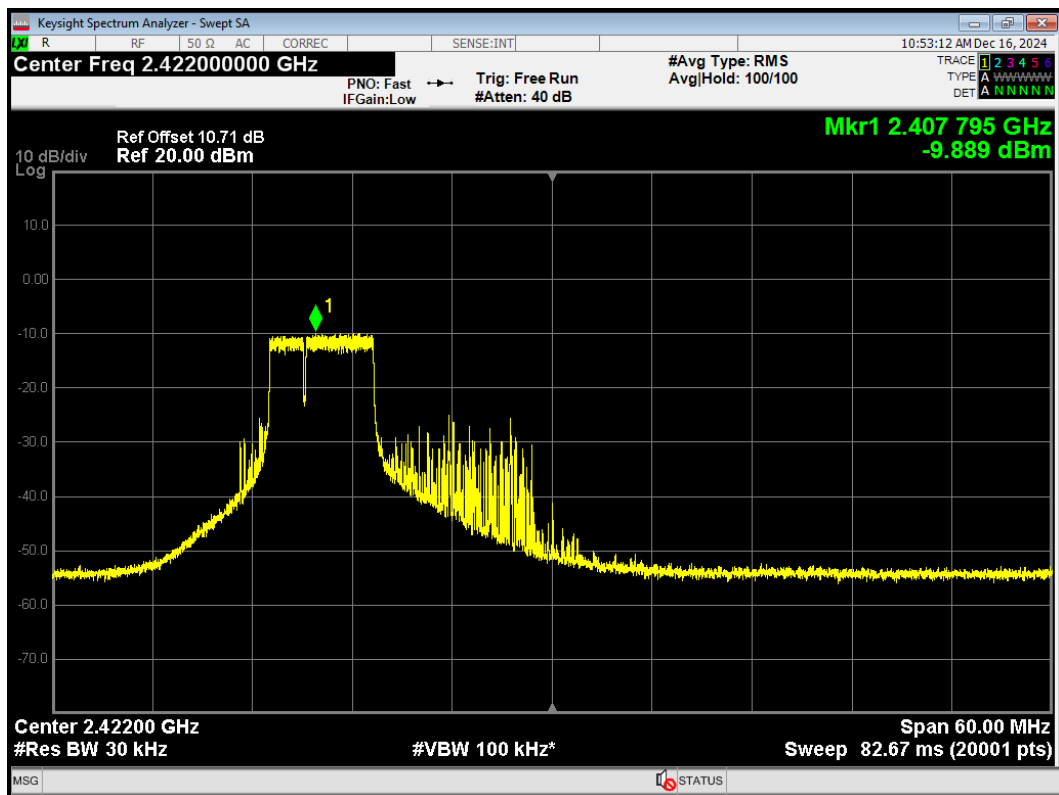
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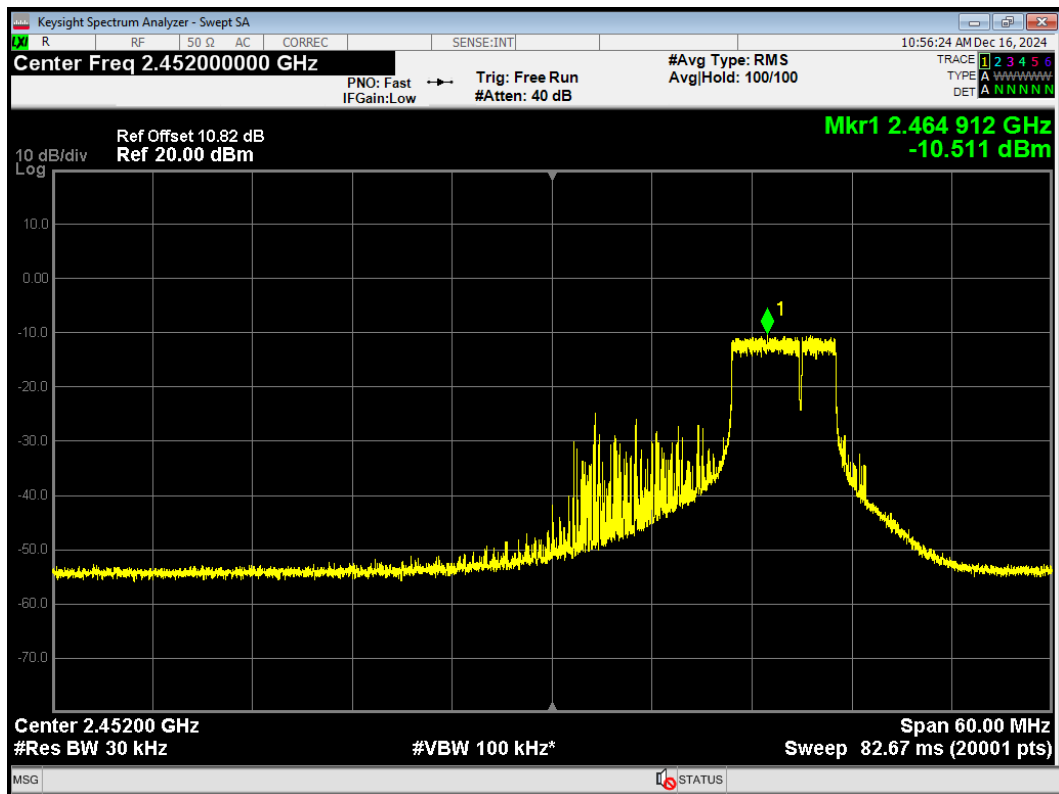
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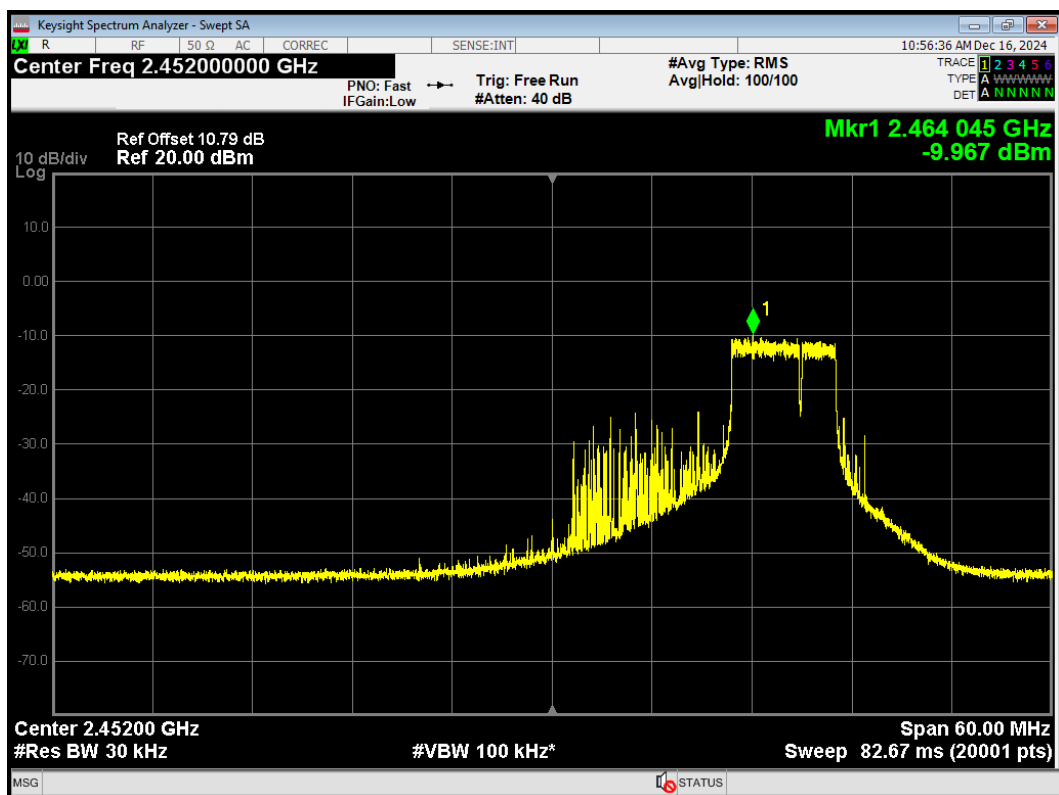
PSD 802.11be BE40 RU 52+26 Tones 2422MHz Ant2



PSD 802.11be BE40 RU 52+26 Tones 2452MHz Ant1



PSD 802.11be BE40 RU 52+26 Tones 2452MHz Ant2



5.5. Spurious RF Conducted Emissions

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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 AUTO.

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. "

nRF 2.4GHz

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
nRF 2.4GHz	2402/CH 0	6.580	-23.42
	2440/CH 19	7.050	-22.95
	2480/CH 39	7.250	-22.75

Wi-Fi 2.4G

Test Mode	Frequency [MHz]	Reference value (dBm)	Limit [dBm]
802.11b	2412	9.11	-20.89
	2437	7.84	-22.16
	2462	8.68	-21.32
802.11g	2412	-2.08	-32.08
	2417	0.550	-29.45
	2422	4.040	-25.96
	2437	4.02	-25.98
	2457	2.840	-27.16
	2462	-0.20	-30.20
802.11n HT20 SISO	2412	-4.65	-34.65
	2417	-1.180	-31.18
	2422	1.400	-28.6
	2437	2.49	-27.51
	2452	2.760	-27.24
	2457	1.450	-28.55
	2462	-0.91	-30.91
802.11n HT40 SISO	2422	-8.82	-38.82
	2427	-1.980	-31.98
	2437	2.53	-27.47
	2442	-1.130	-31.13
	2447	-4.260	-34.26
	2452	-8.23	-38.23
802.11ax HE20 SISO	2412	-0.88	-30.88
	2437	4.51	-25.49
	2462	1.44	-28.56
802.11ax HE40 SISO	2422	-5.06	-35.06
	2437	1.44	-28.56
	2452	-4.91	-34.91
802.11be EHT20 SISO	2412	2.25	-27.75
	2427	0.770	-29.23
	2437	2.45	-27.55
	2447	1.270	-28.73
	2462	1.99	-28.01
802.11be EHT40 SISO	2422	-6.29	-36.29
	2427	0.330	-29.67
	2437	-0.37	-30.37
	2447	-1.820	-31.82
	2452	-3.20	-33.20

TB Mode

Test Mode	Freq (MHz)	Ru Size	Ru Index	Reference value (dBm)	Limit [dBm]
802.11ax HE20 SISO	2412	26Tone	RU0	8.04	-21.96
		52Tone	RU37	6.14	-23.86
		106Tone	RU53	3.46	-26.54
		242Tone	RU61	1.11	-28.89
	2437	26Tone	RU4	10.22	-19.78
		52Tone	RU39	8.54	-21.46
		106Tone	RU53	6.88	-23.12
		242Tone	RU61	4.23	-25.77
	2462	26Tone	RU8	11.50	-18.50
		52Tone	RU40	8.12	-21.88
		106Tone	RU54	5.73	-24.27
		242Tone	RU61	3.70	-26.30
802.11ax HE40 SISO	2422	26Tone	RU0	7.91	-22.09
	2452	26Tone	RU17	5.35	-24.65
	2422	484Tone	RU65	-2.70	-32.70
802.11be EHT20 SISO	2412	26Tone	RU0	11.53	-18.47
		52Tone	RU37	8.63	-21.37
		106Tone	RU53	6.42	-23.58
		242Tone	RU61	4.85	-25.15
	2437	26Tone	RU4	11.45	-18.55
		52Tone	RU39	9.00	-21.00
		106Tone	RU53	5.81	-24.19
		242Tone	RU61	4.47	-25.53
	2462	26Tone	RU8	11.45	-18.55
		52Tone	RU40	7.68	-22.32
		106Tone	RU54	5.03	-24.97
		242Tone	RU61	3.56	-26.44
802.11be EHT40 SISO	2422	26Tone	RU0	6.72	-23.28
	2452	26Tone	RU17	5.66	-24.34
	2422	484Tone	RU65	-3.85	-33.85

Measurement Uncertainty

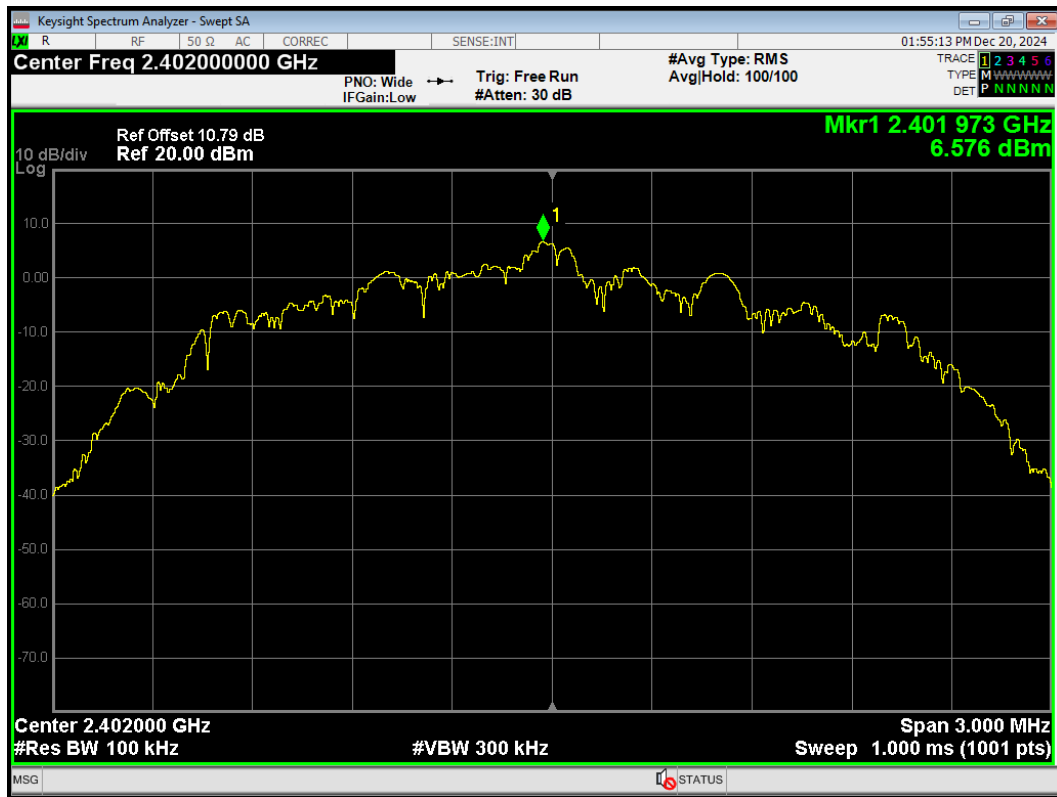
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

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

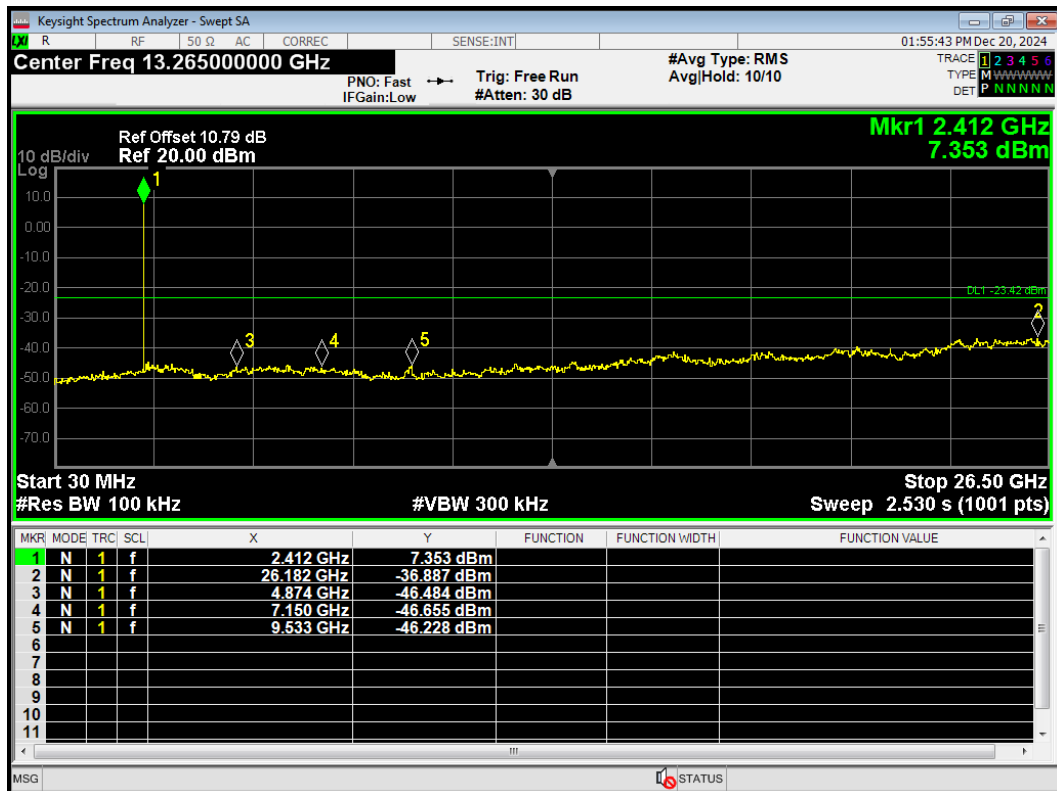
Test Results:

nRF 2.4GHz

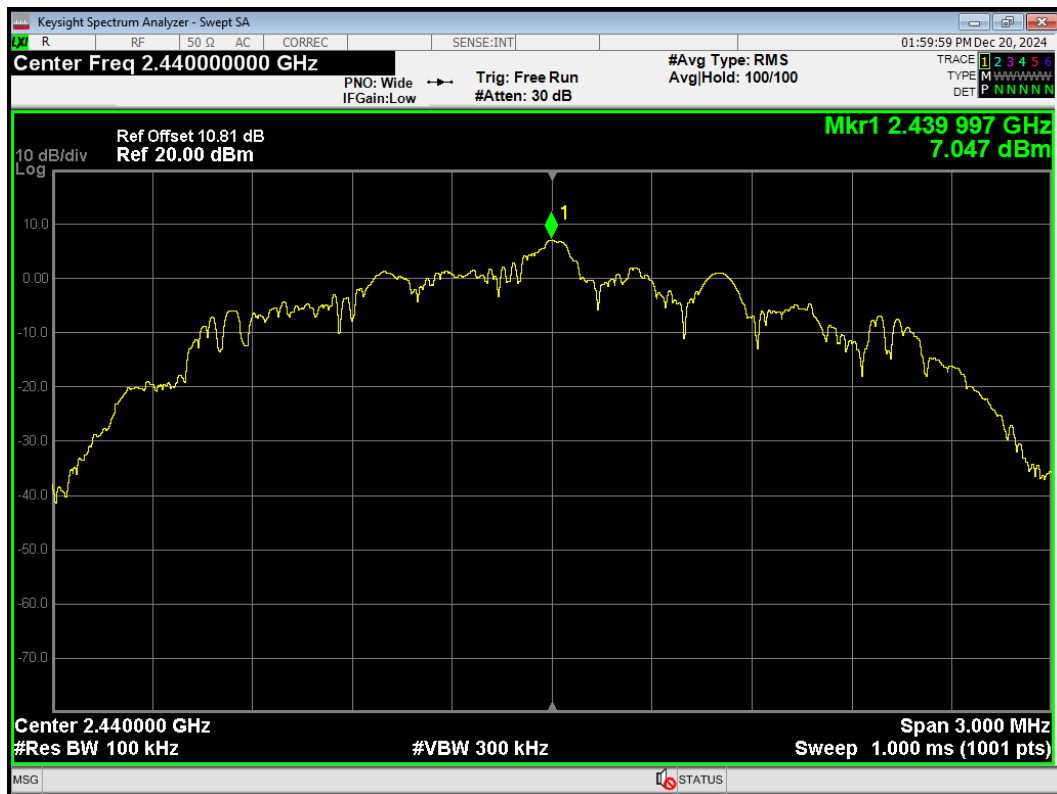
Tx. Spurious nRF 2.4GHz 2402MHz Ref



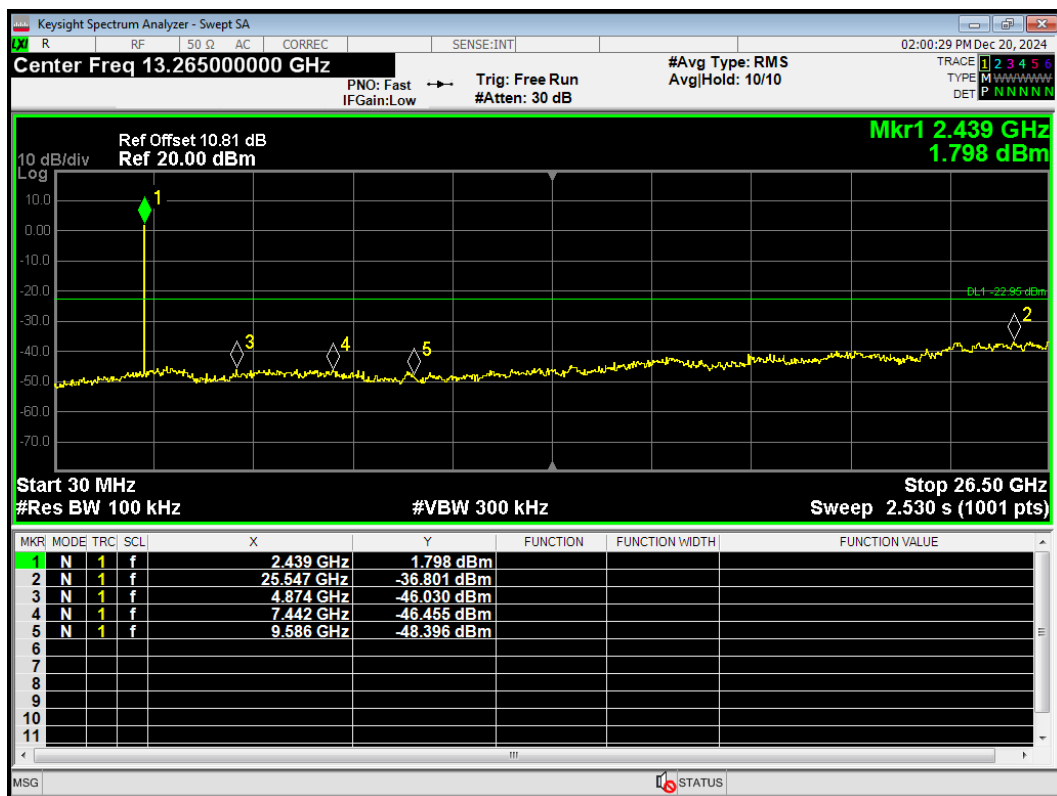
Tx. Spurious nRF 2.4GHz 2402MHz Emission



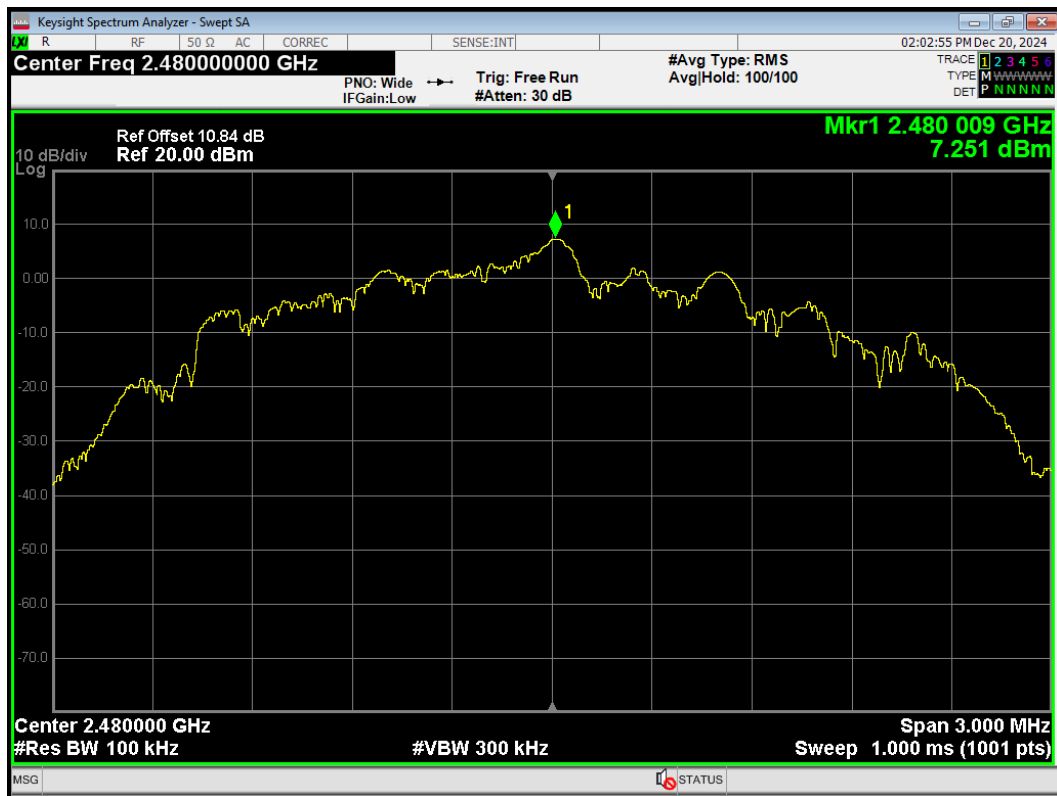
Tx. Spurious nRF 2.4GHz 2440MHz Ref



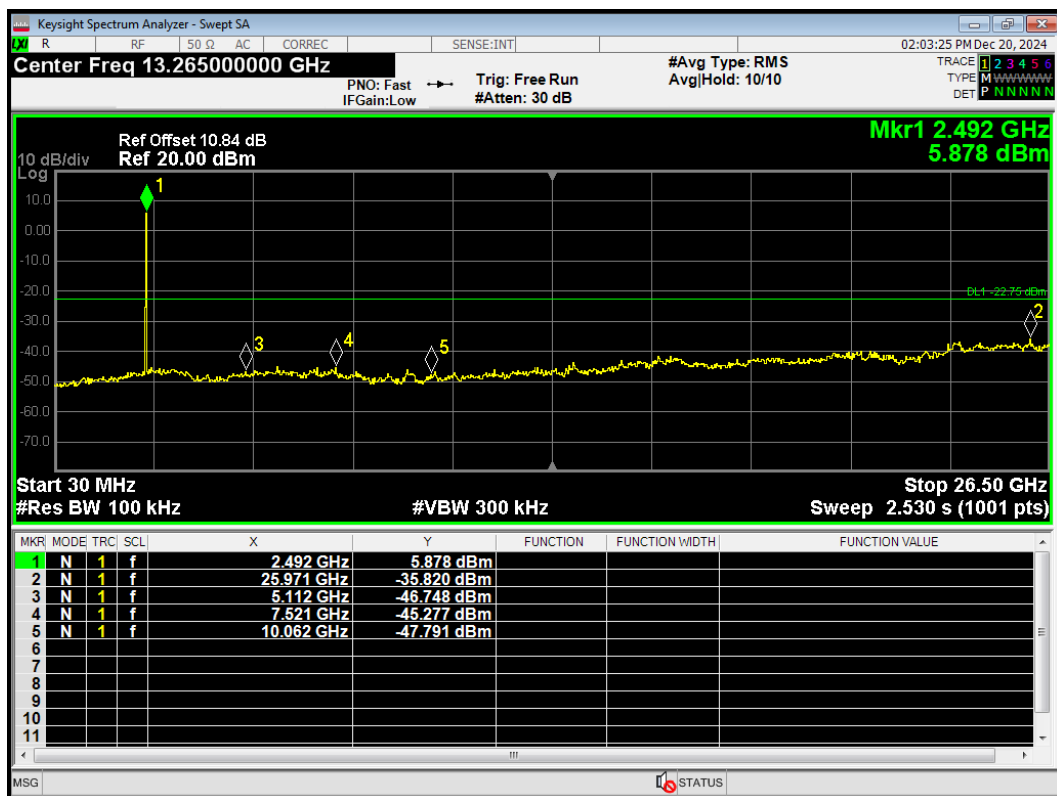
Tx. Spurious nRF 2.4GHz 2440MHz Emission



Tx. Spurious nRF 2.4GHz 2480MHz Ref

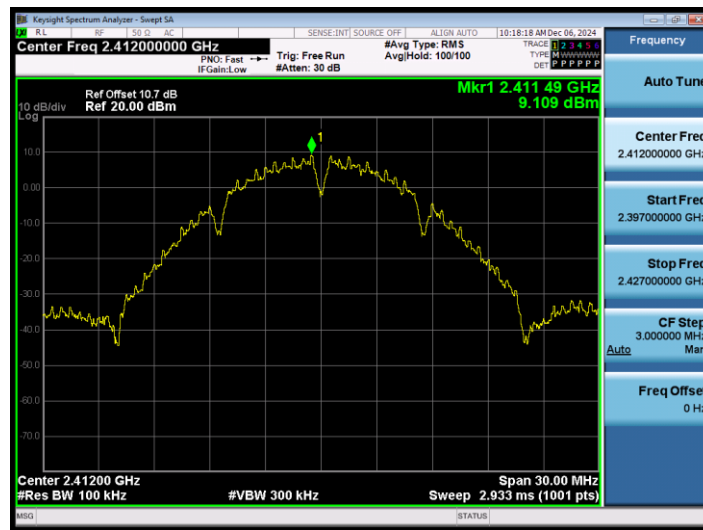


Tx. Spurious nRF 2.4GHz 2480MHz Emission



Wi-Fi 2.4G

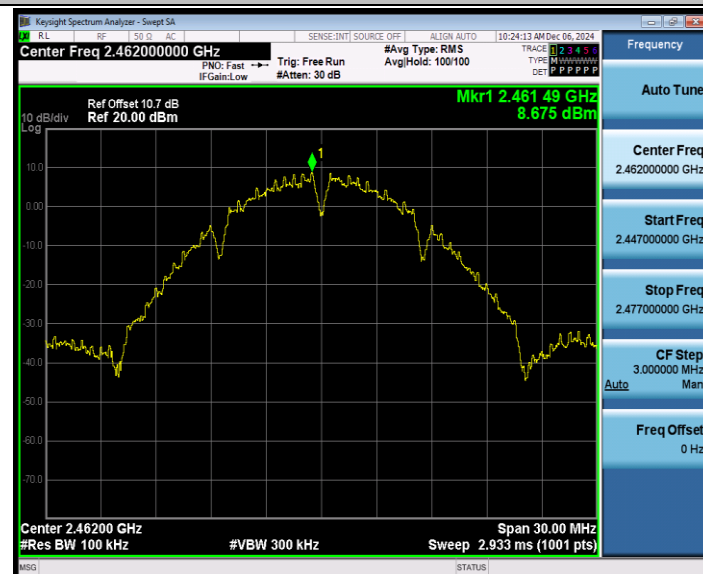
802.11b_2412



802.11b_2437



802.11b_2462



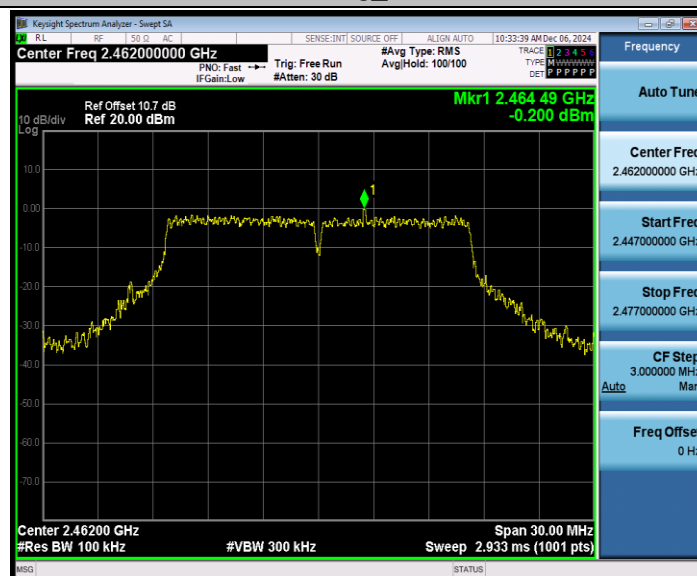
802.11g_2412



802.11g_2437



802.11g_2462



802.11n HT20 SISO_2412



802.11n HT20 SISO_2437



802.11n HT20 SISO_2462



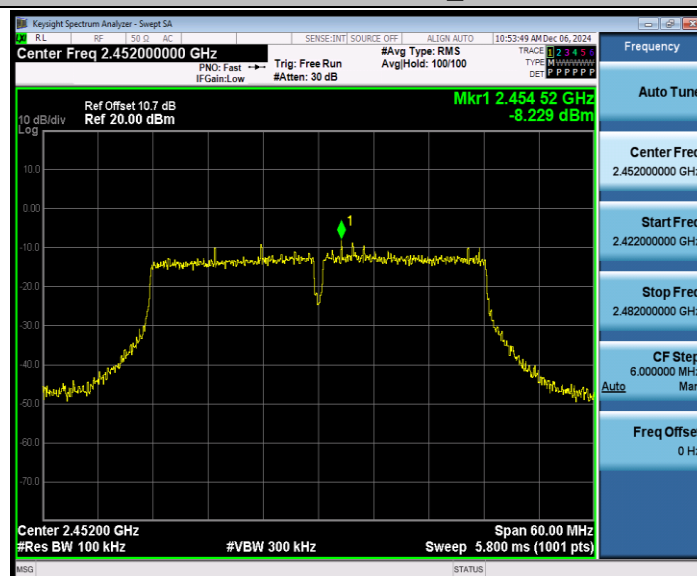
802.11n HT40 SISO_2422



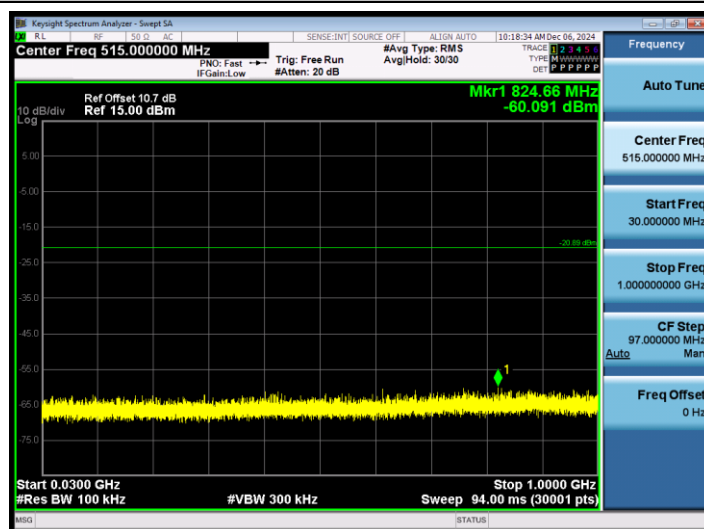
802.11n HT40 SISO_2437



802.11n HT40 SISO_2452



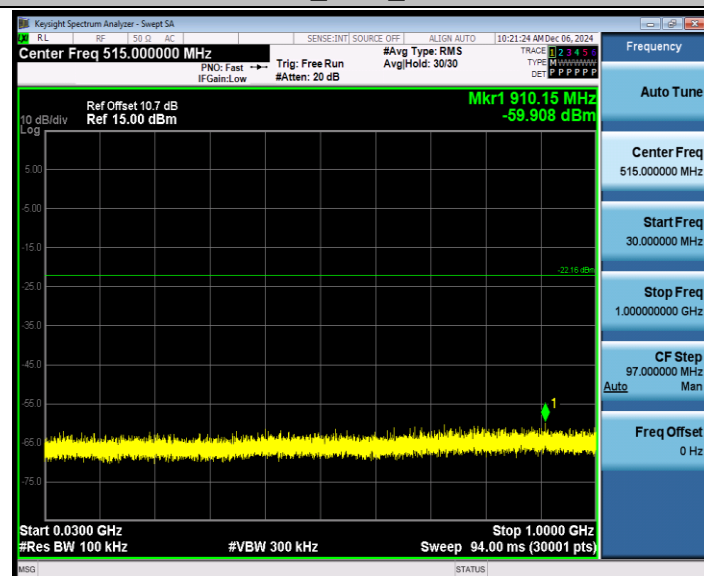
802.11b_2412_30~1000



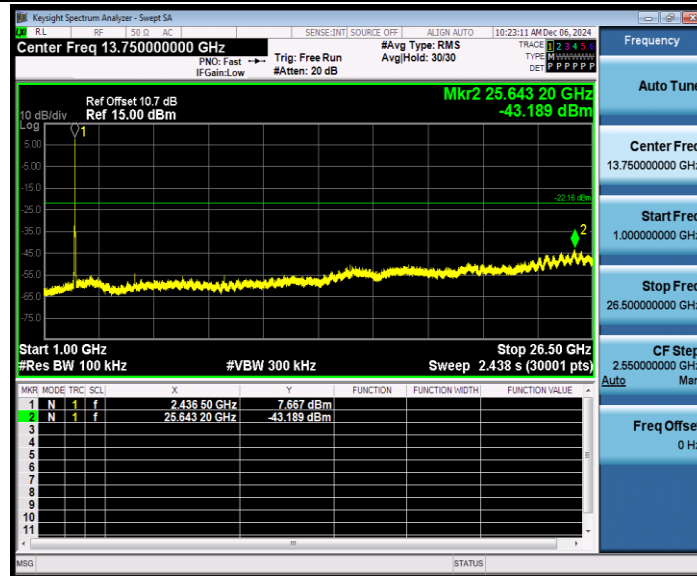
802.11b_2412_1000~26500



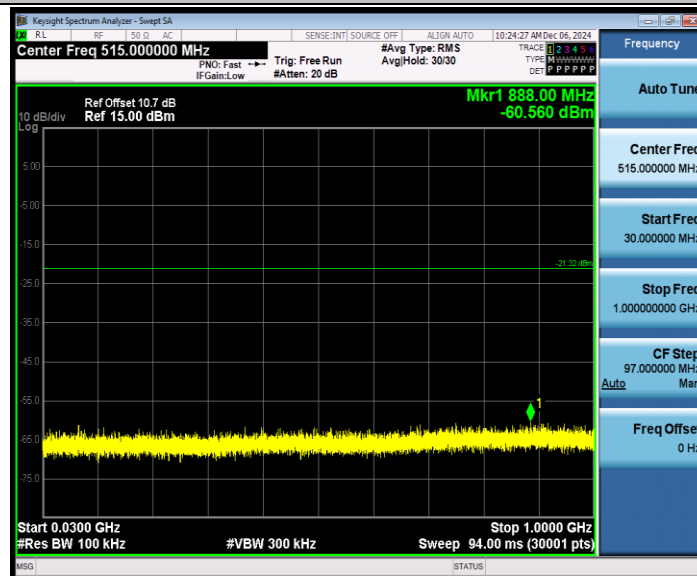
802.11b_2437_30~1000



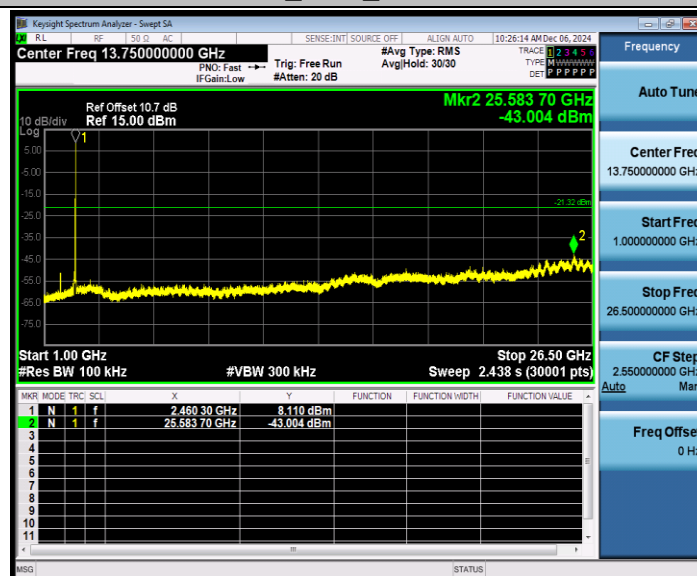
802.11b_2437_1000~26500



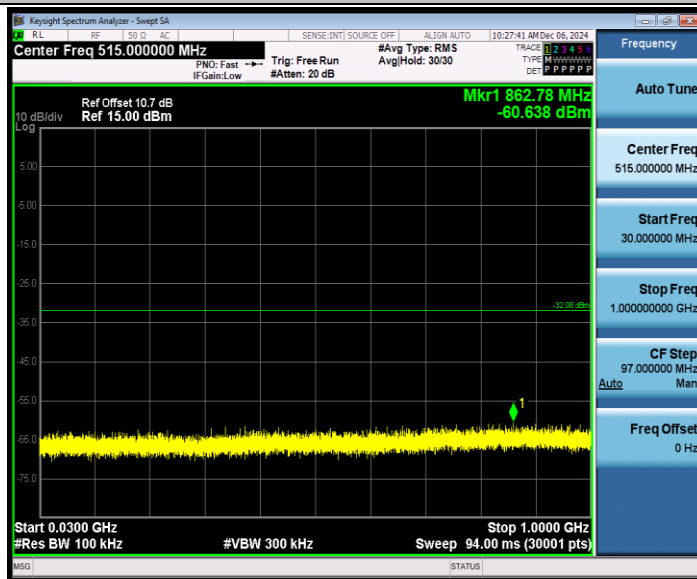
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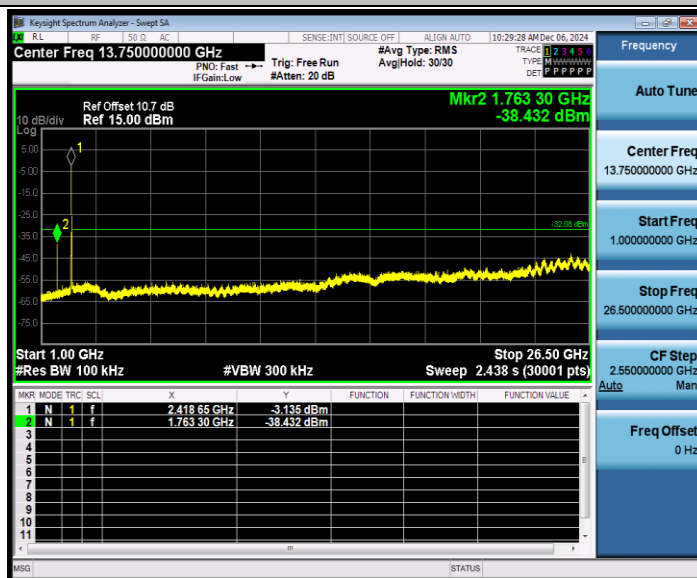
802.11b_2462_1000~26500



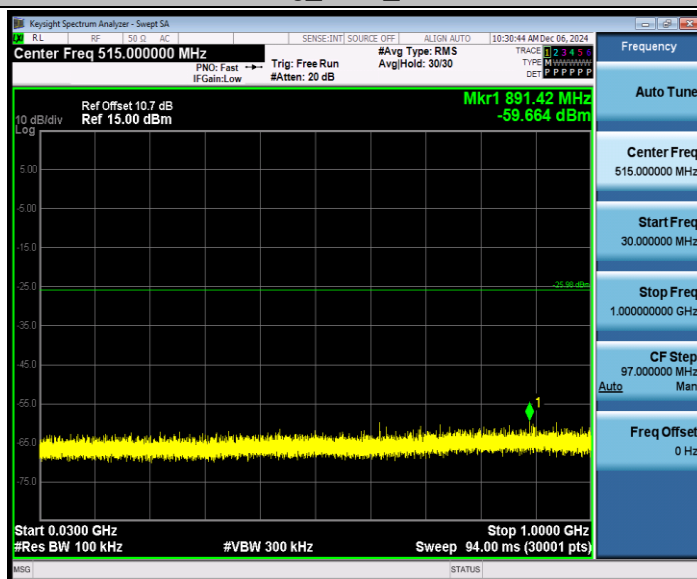
802.11g_2412_30~1000



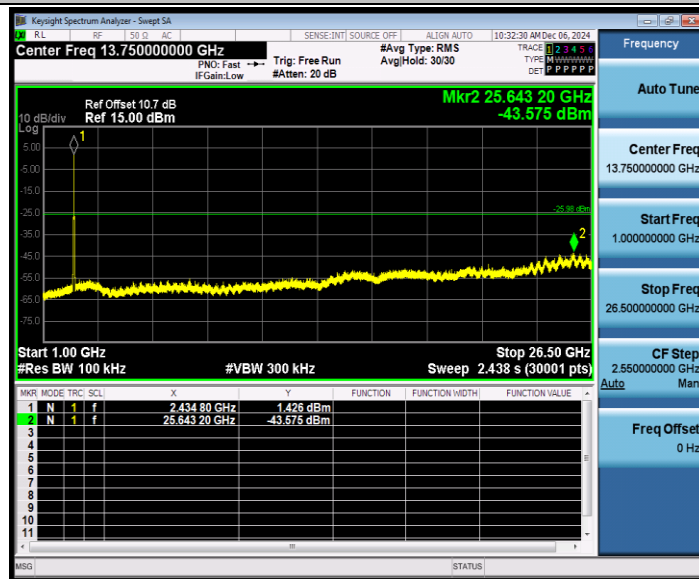
802.11g_2412_1000~26500



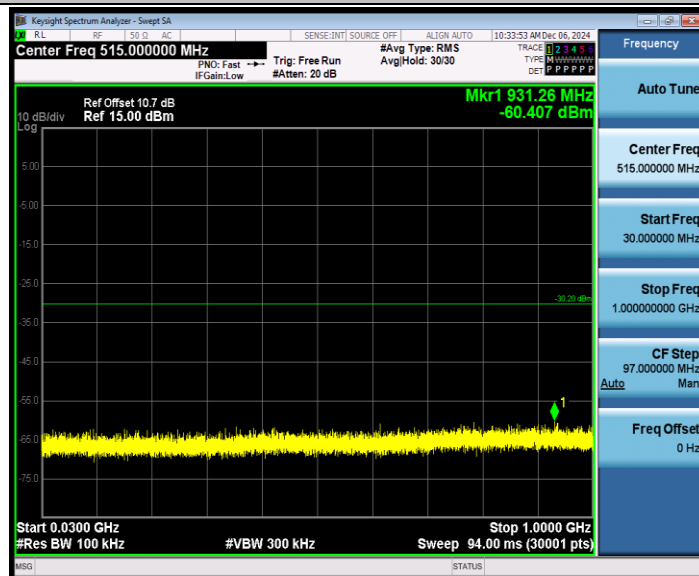
802.11g_2437_30~1000



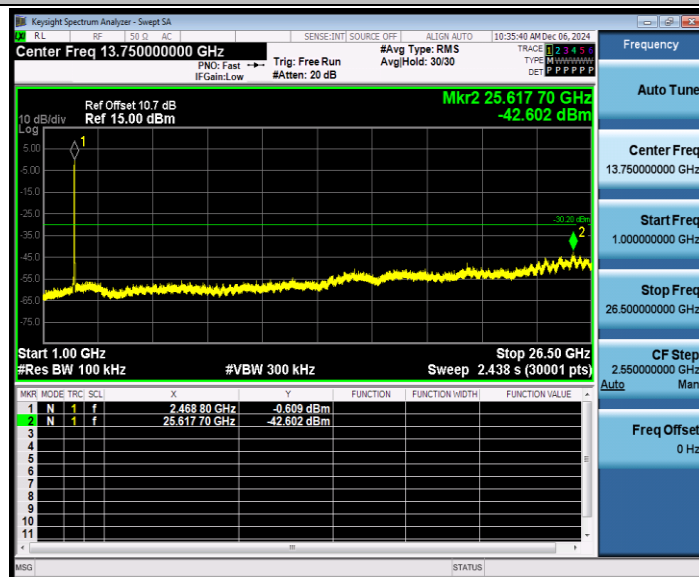
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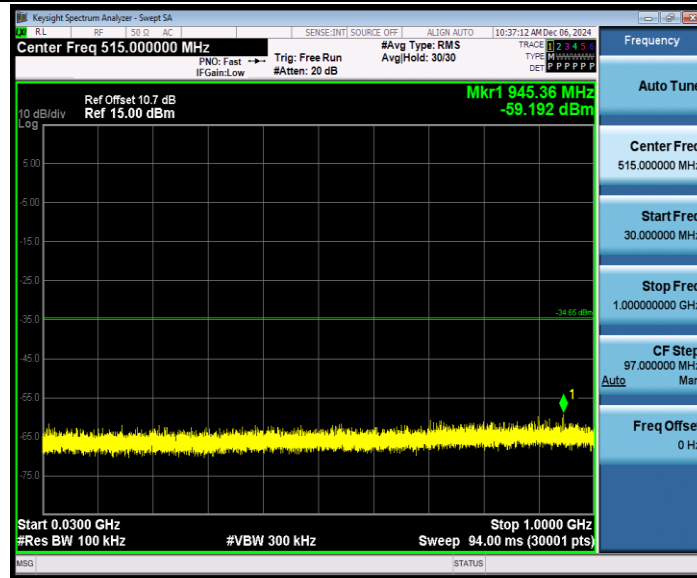
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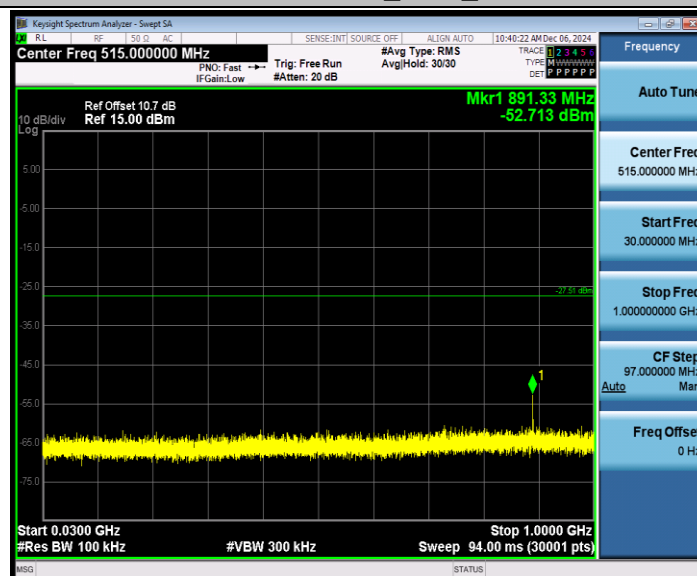
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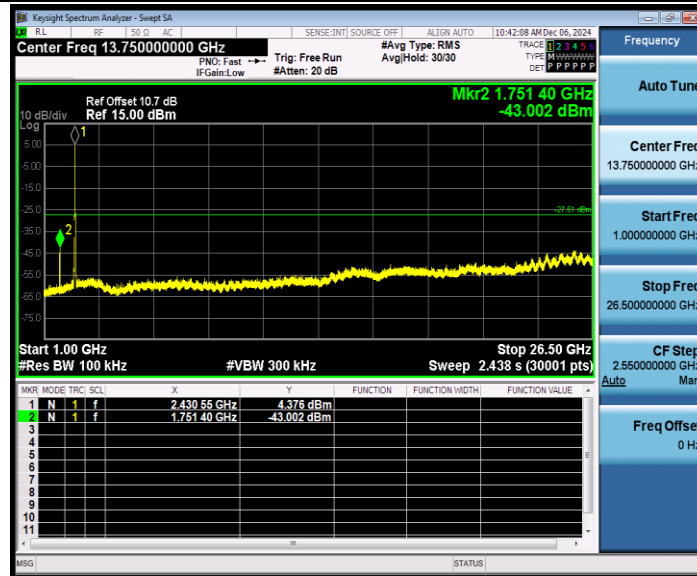
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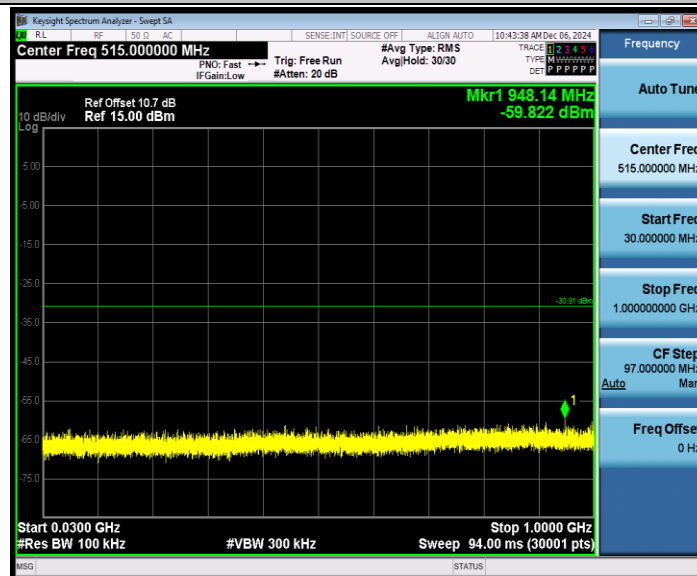
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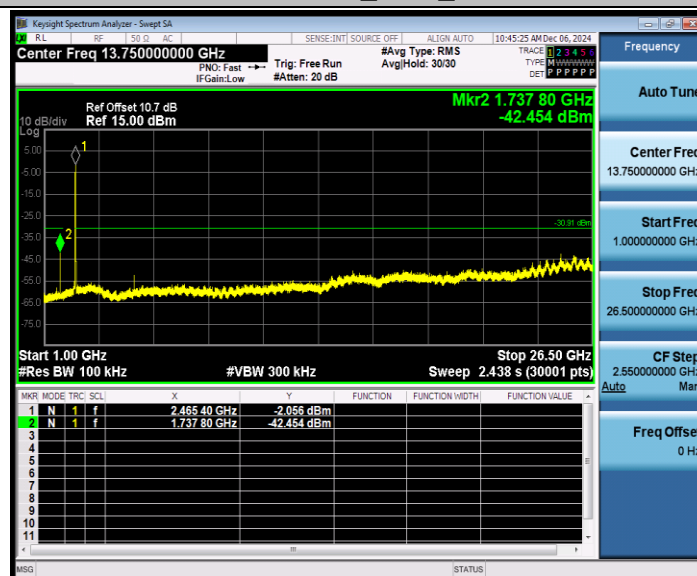
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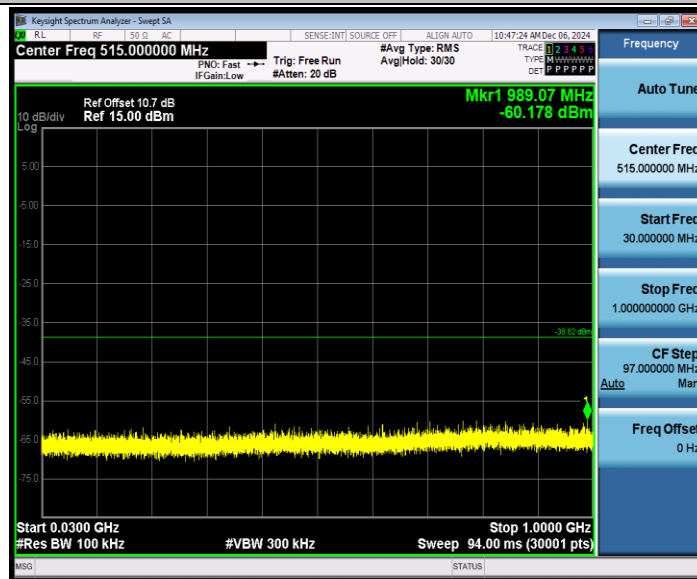
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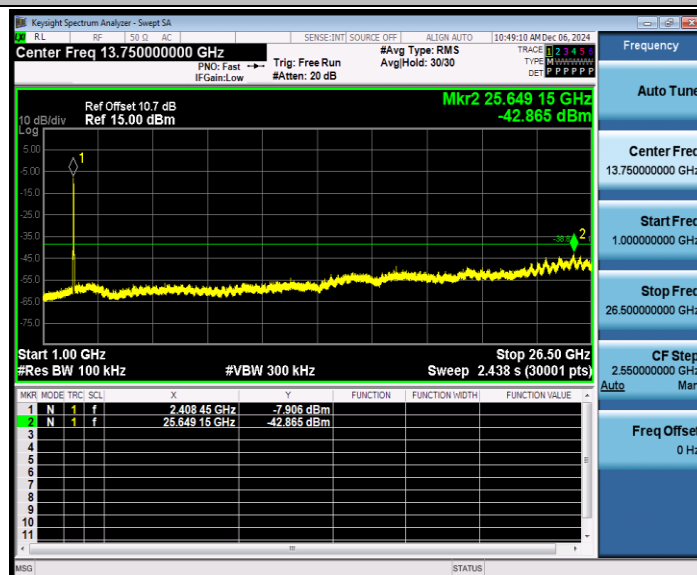
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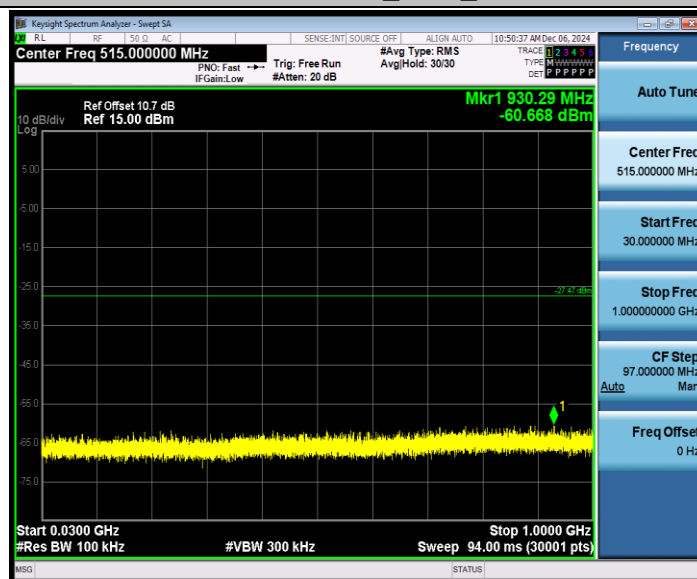
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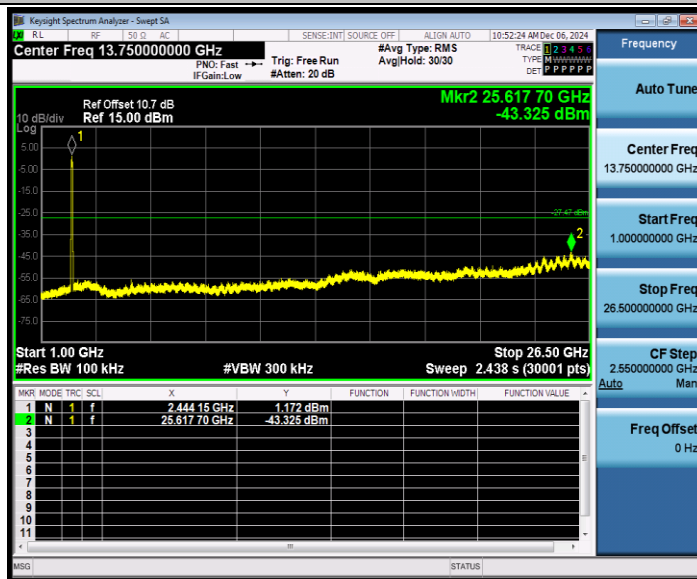
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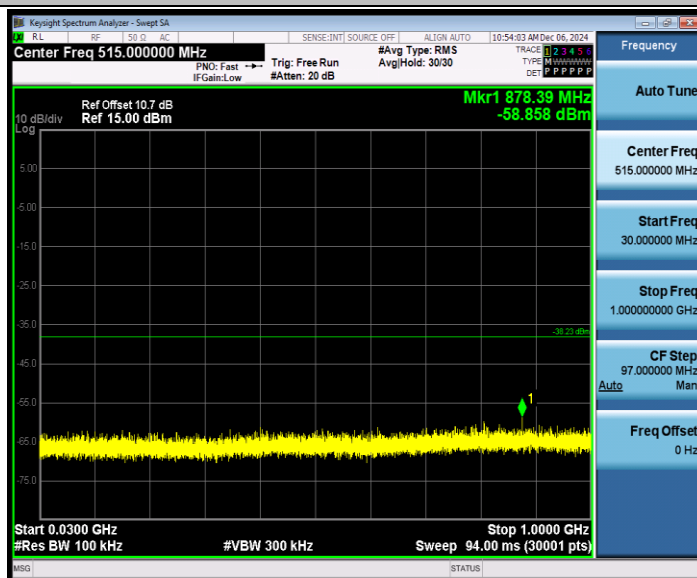
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802.11n HT40 SISO_2437_1000~26500



802.11n HT40 SISO_2452_30~1000



802.11n HT40 SISO_2452_1000~26500

