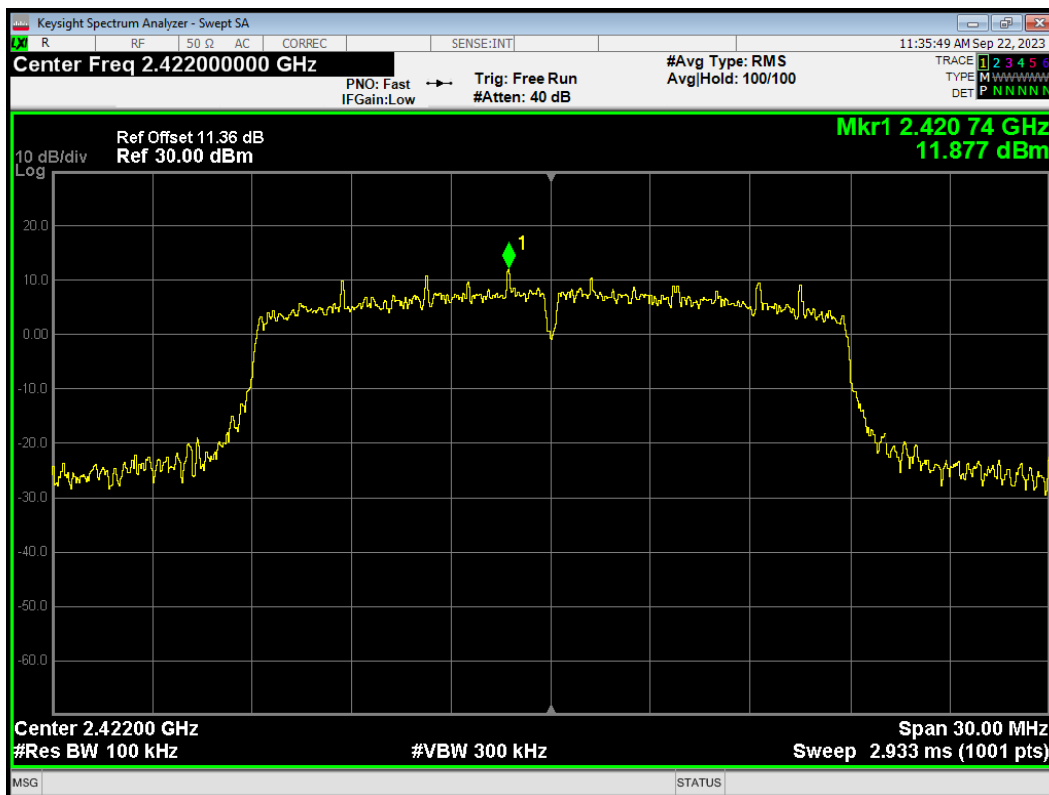
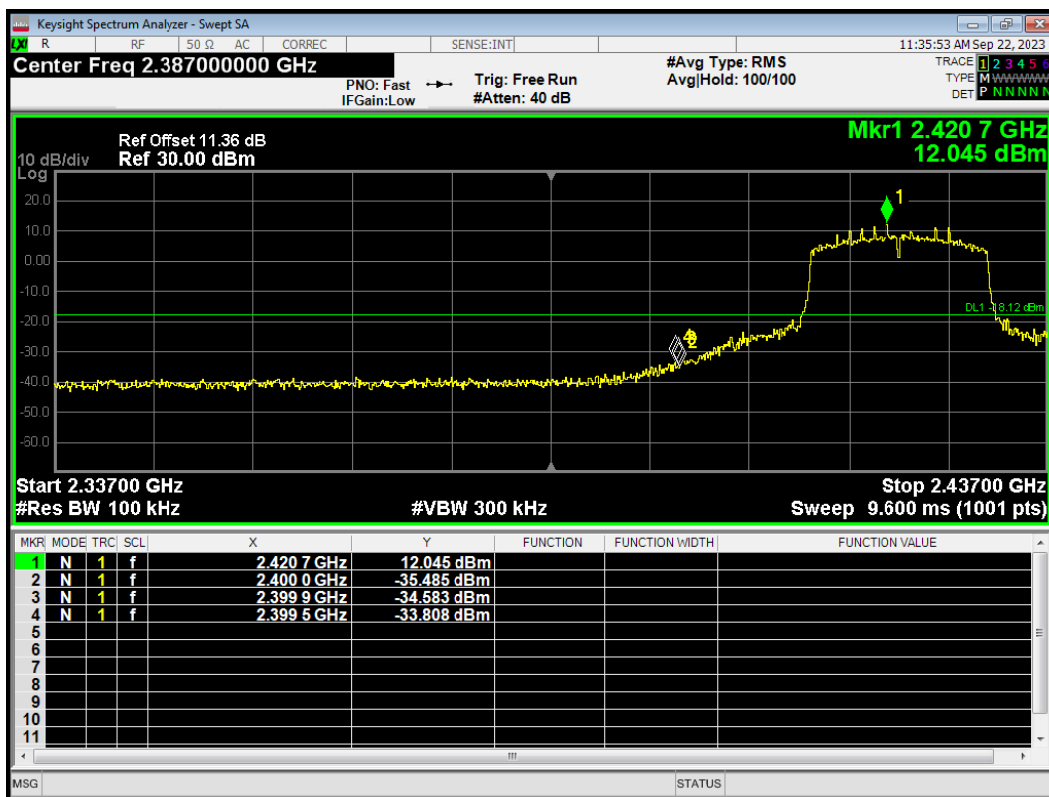


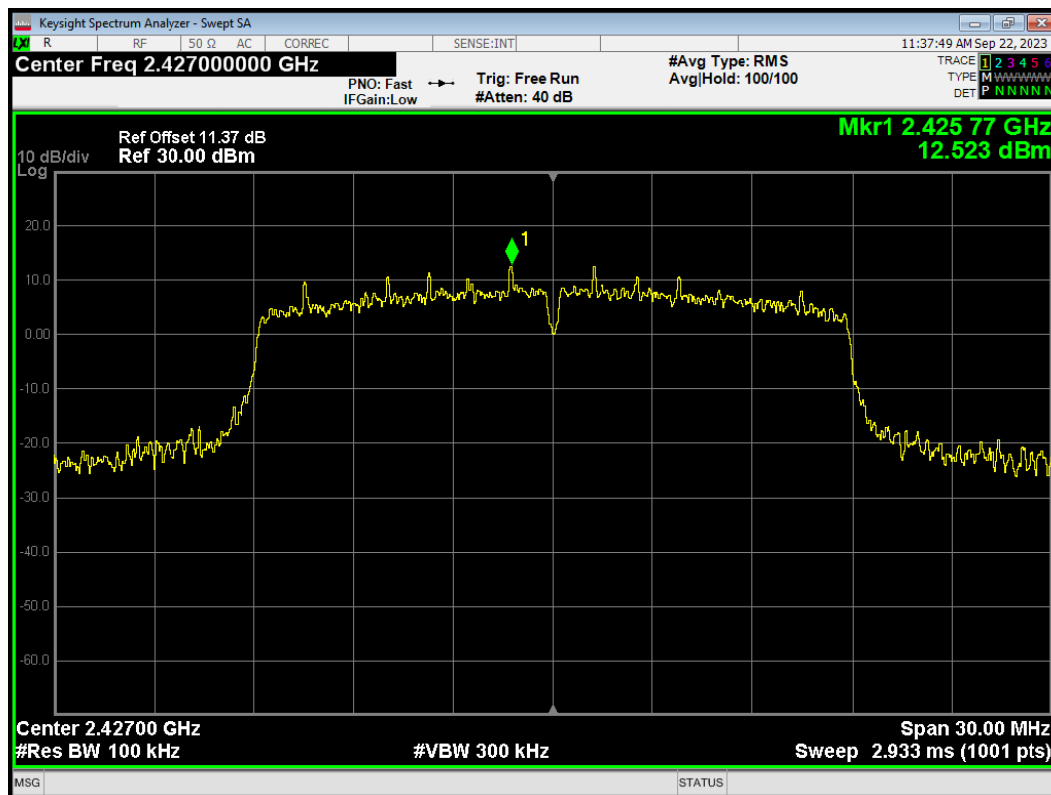
Band Edge 802.11n(HT20) 2422MHz Ref



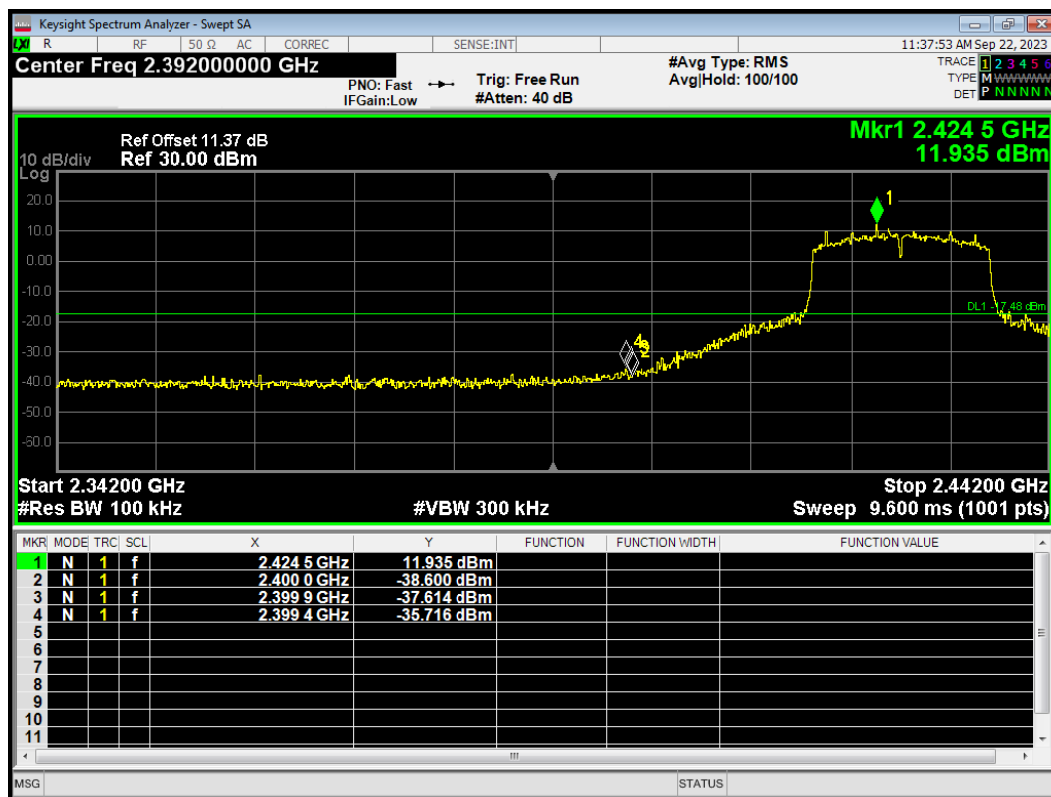
Band Edge 802.11n(HT20) 2422MHz Emission



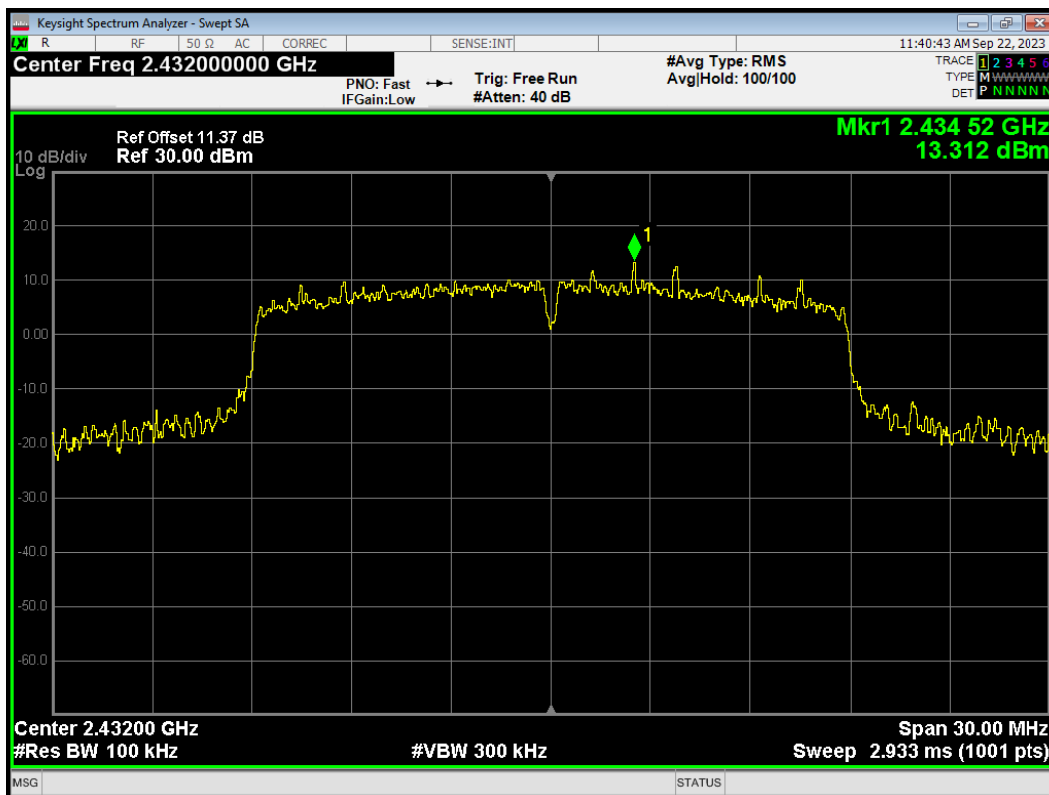
Band Edge 802.11n(HT20) 2427MHz Ref



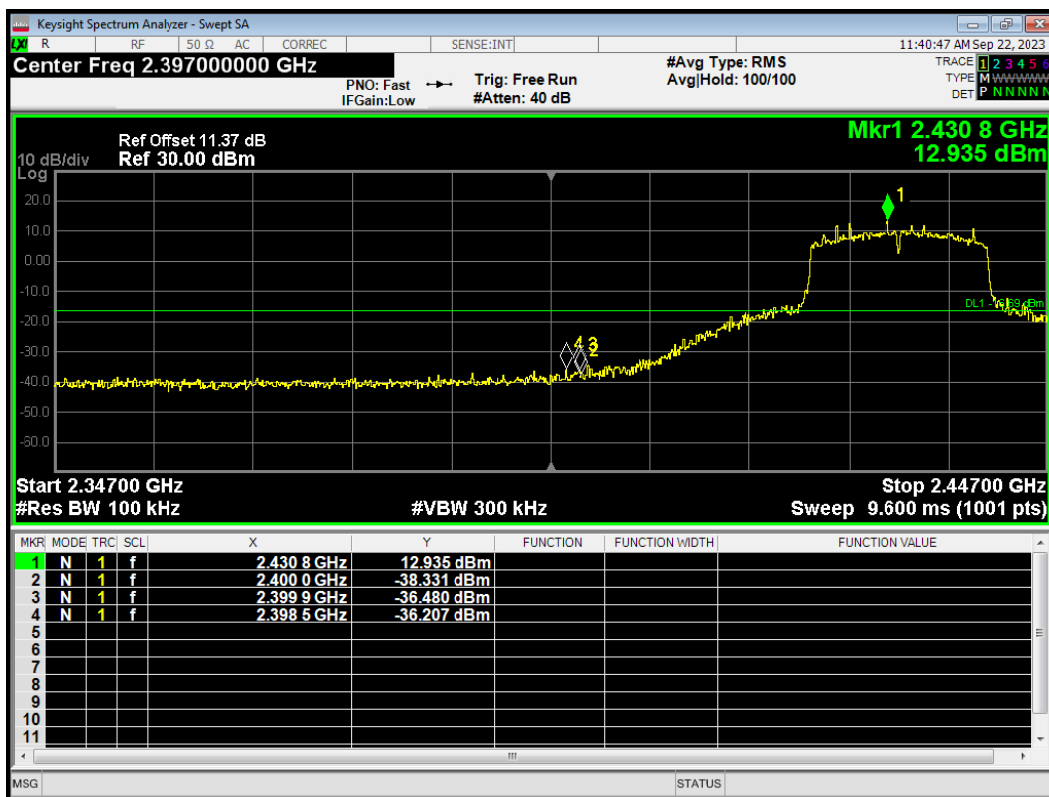
Band Edge 802.11n(HT20) 2427MHz Emission



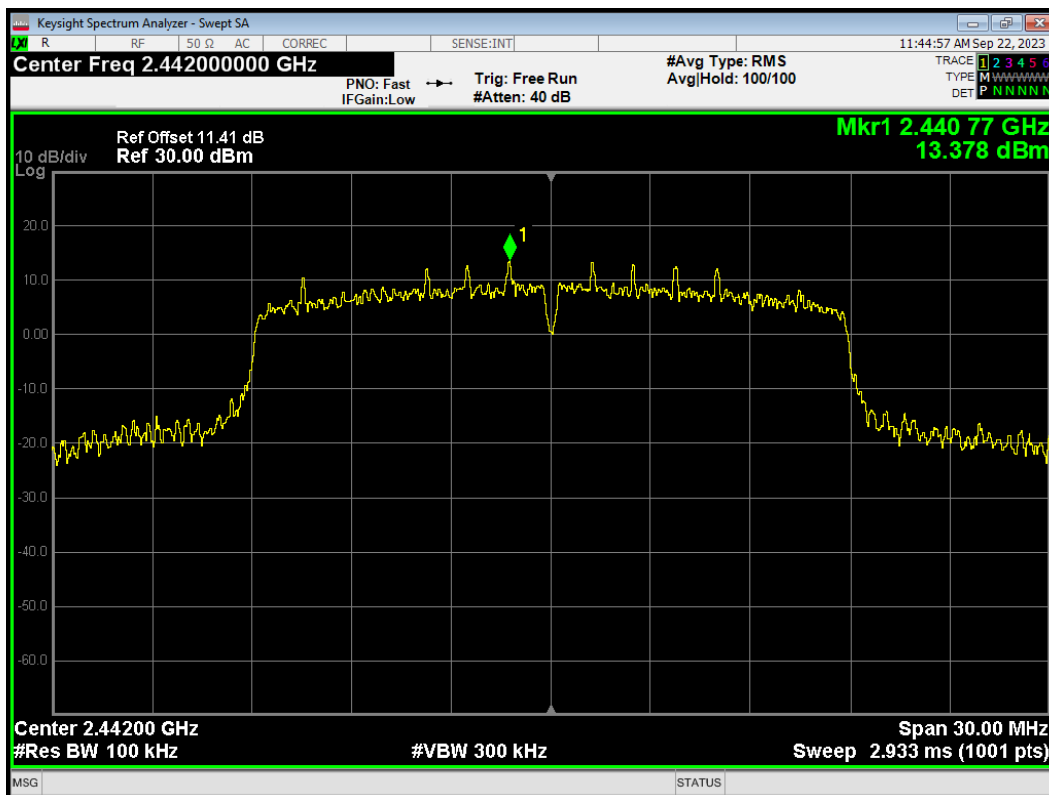
Band Edge 802.11n(HT20) 2432MHz Ref



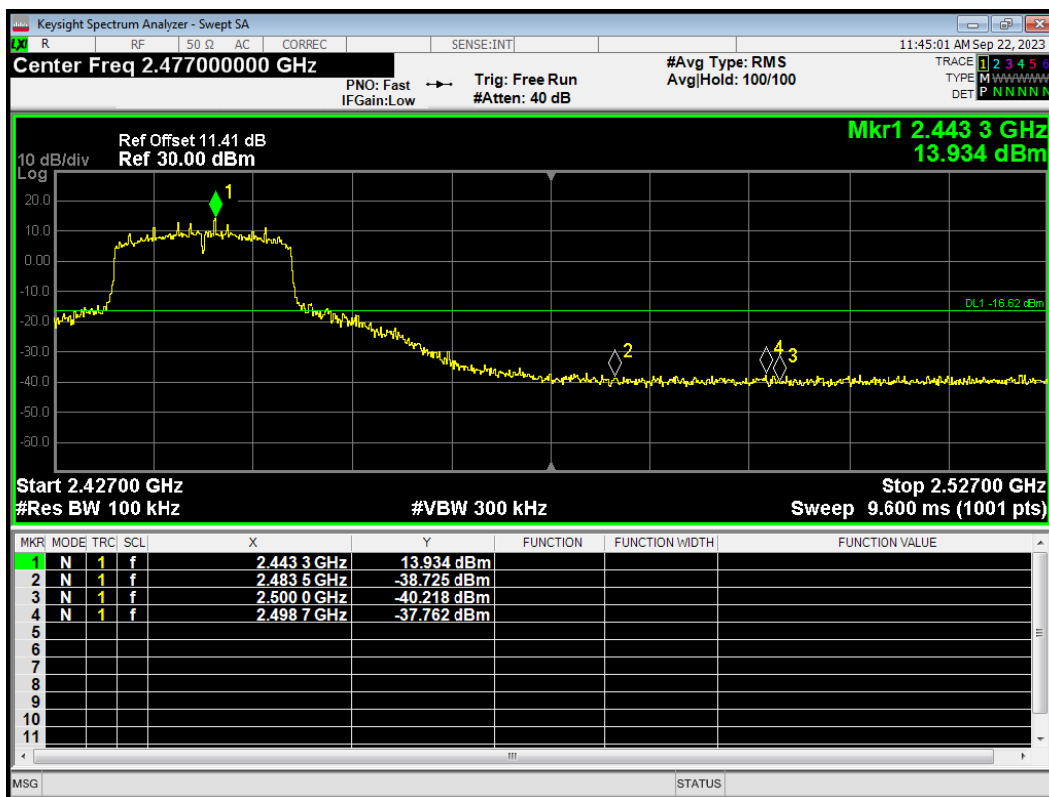
Band Edge 802.11n(HT20) 2432MHz Emission



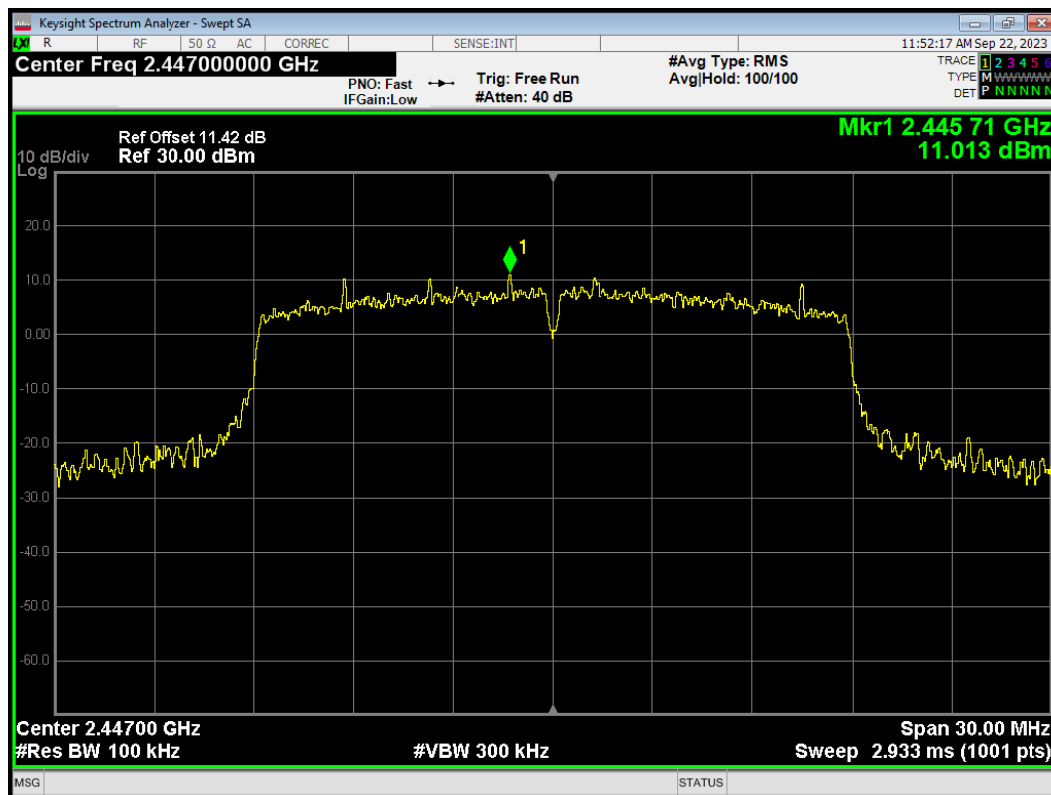
Band Edge 802.11n(HT20) 2442MHz Ref



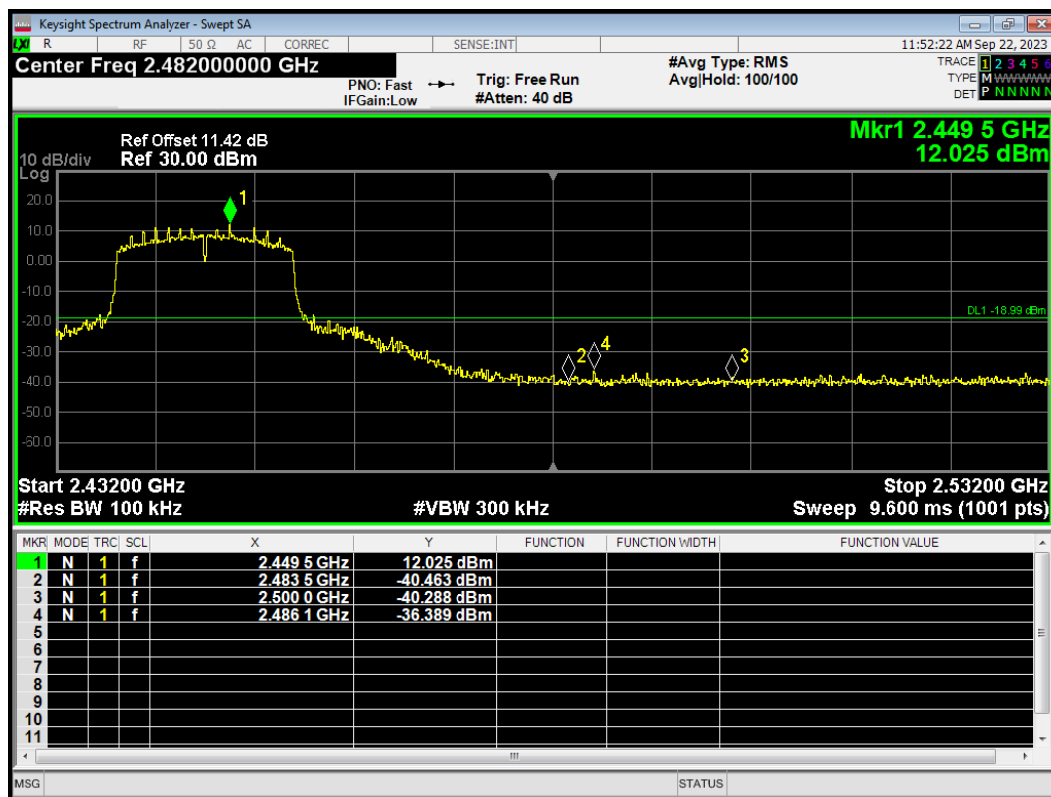
Band Edge 802.11n(HT20) 2442MHz Emission



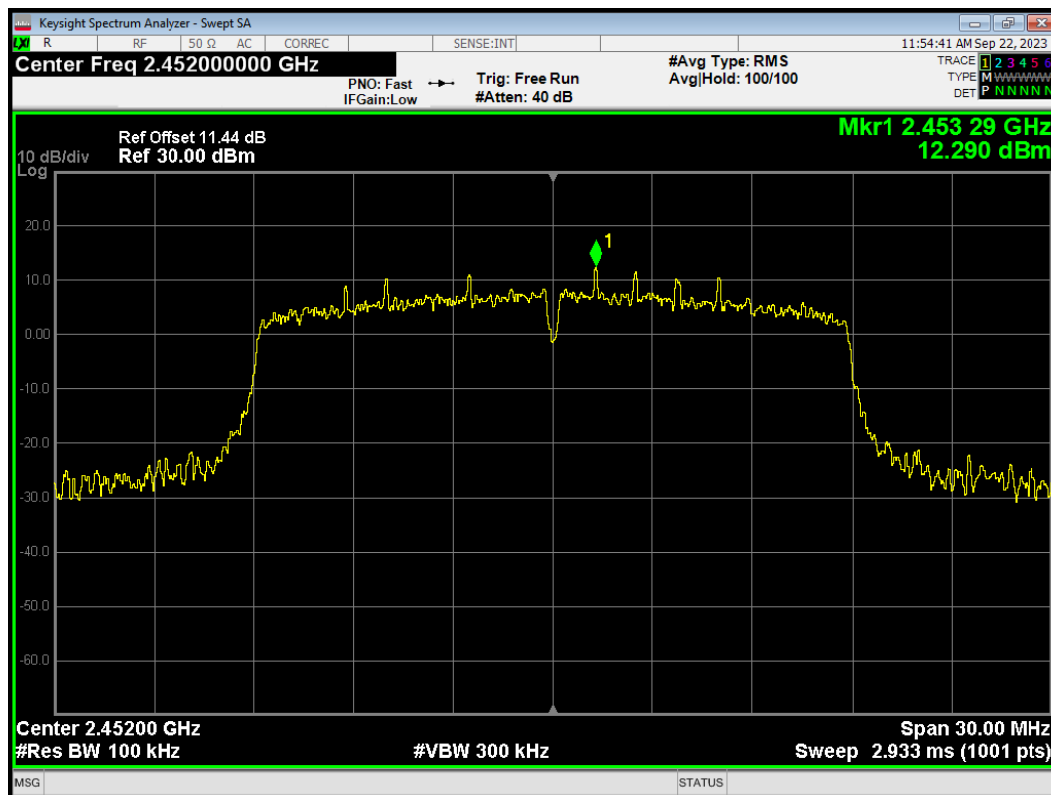
Band Edge 802.11n(HT20) 2447MHz Ref



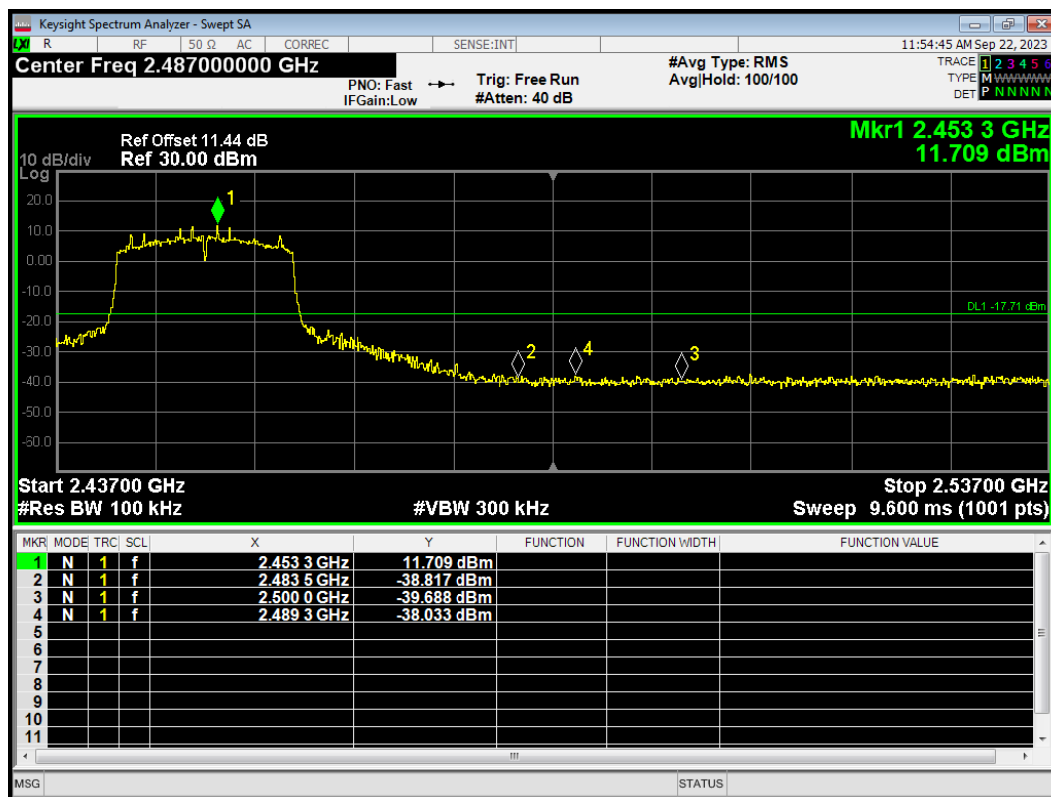
Band Edge 802.11n(HT20) 2447MHz Emission



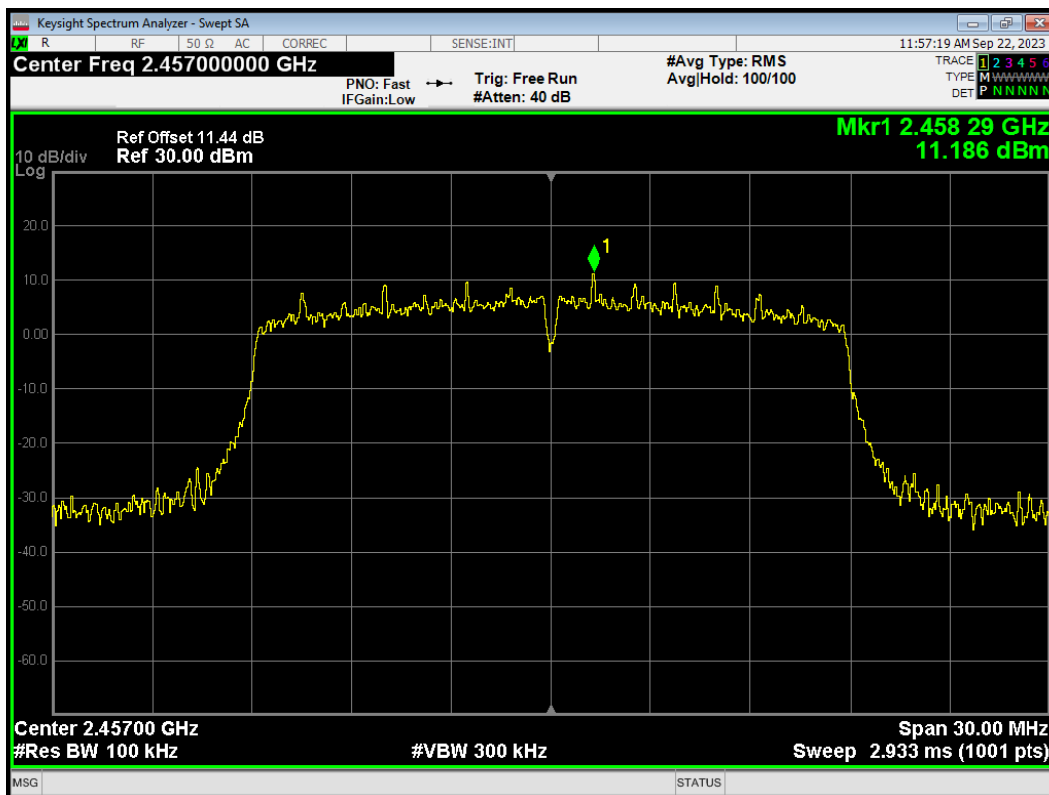
Band Edge 802.11n(HT20) 2452MHz Ref



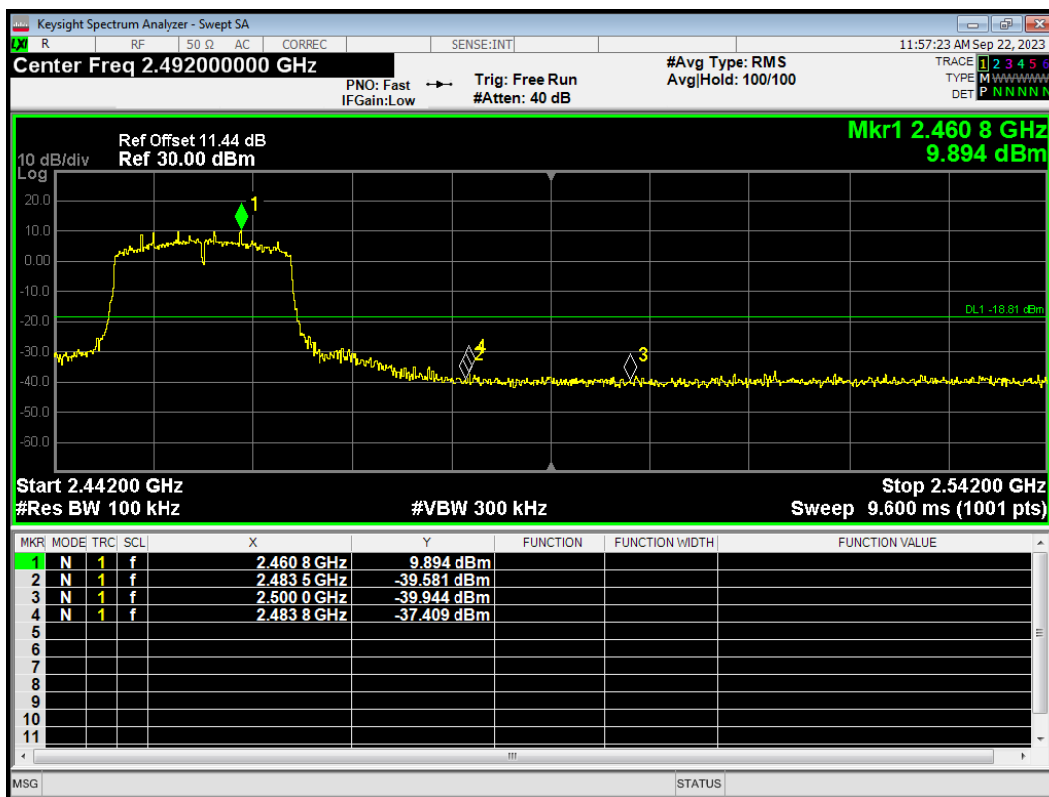
Band Edge 802.11n(HT20) 2452MHz Emission



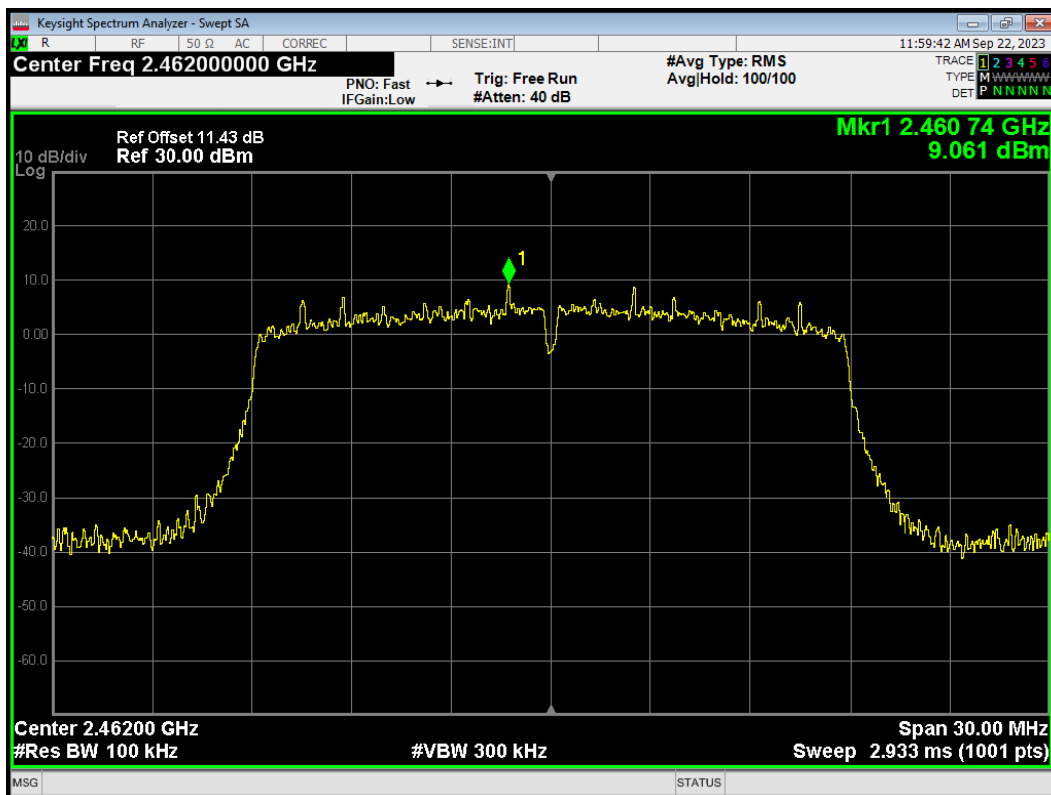
Band Edge 802.11n(HT20) 2457MHz Ref



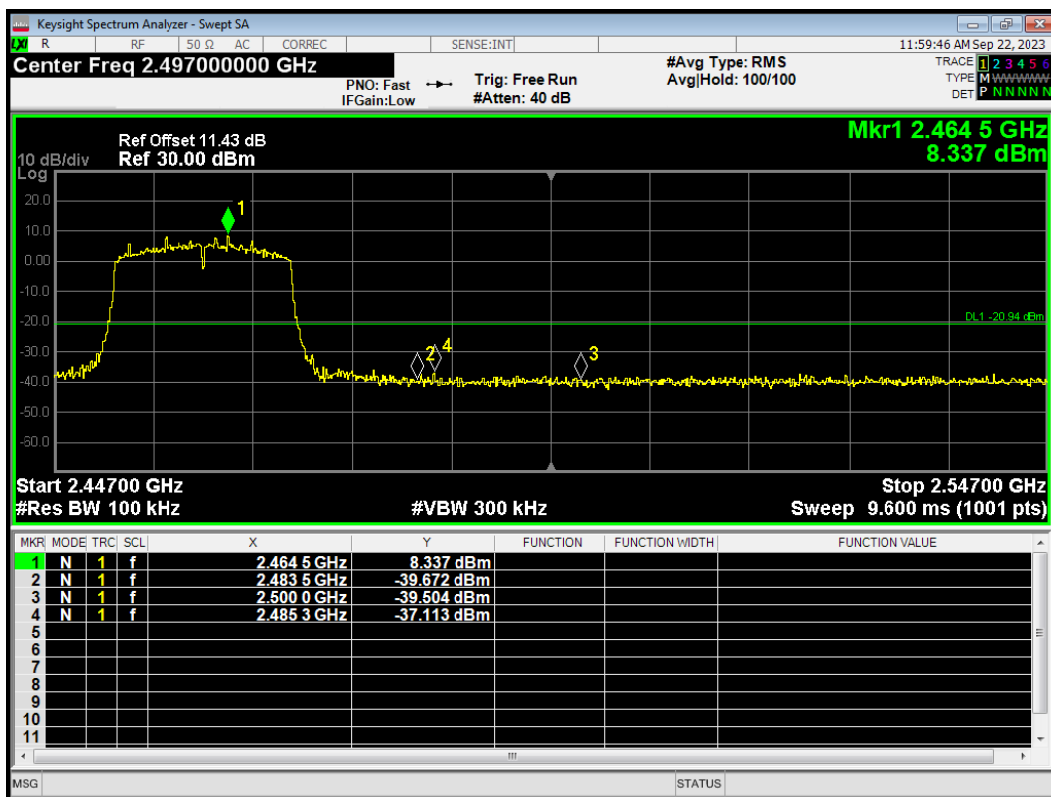
Band Edge 802.11n(HT20) 2457MHz Emission



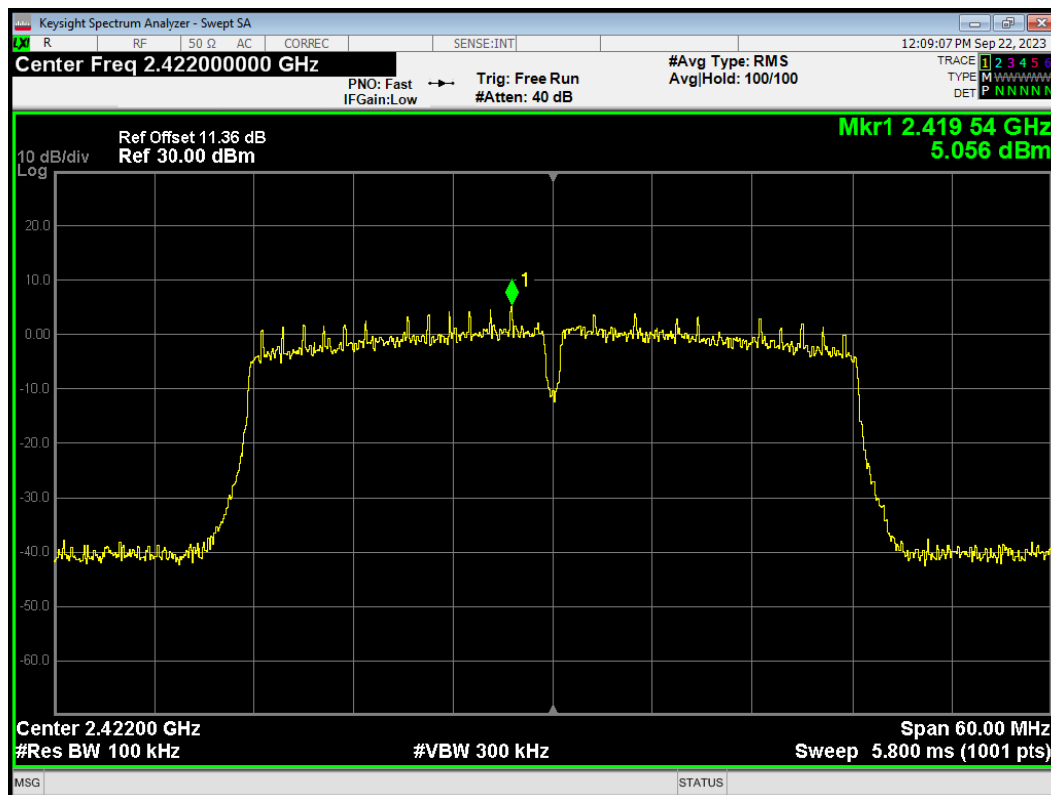
Band Edge 802.11n(HT20) 2462MHz Ref



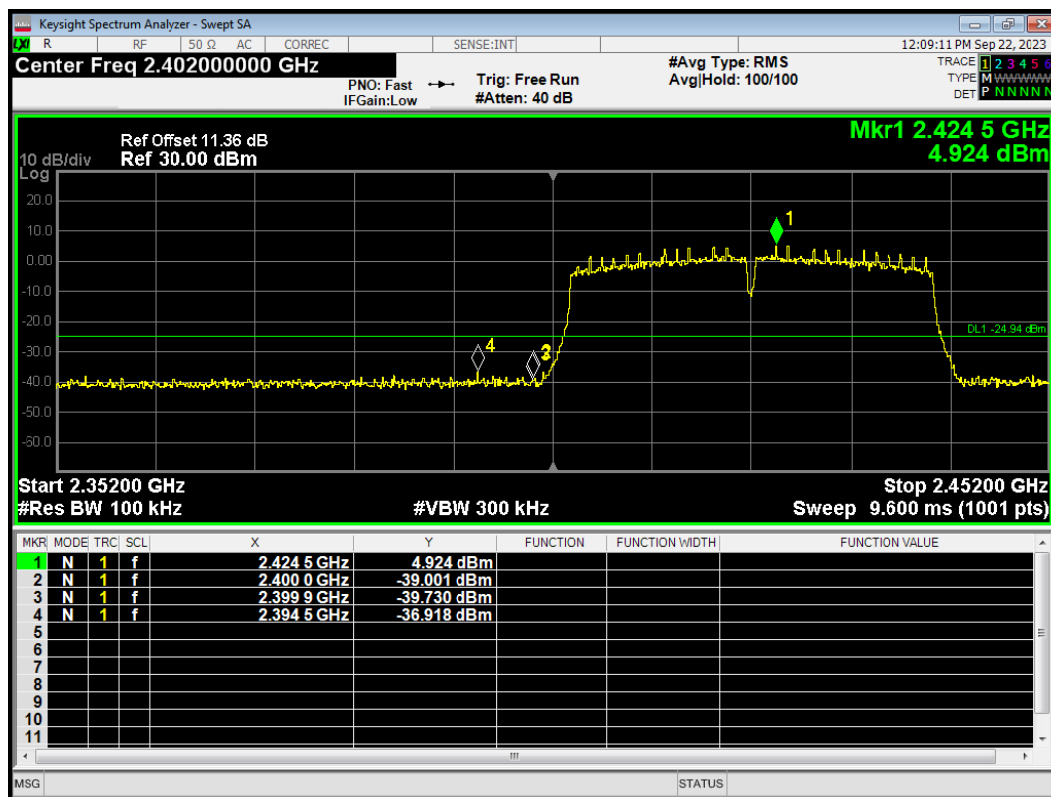
Band Edge 802.11n(HT20) 2462MHz Emission



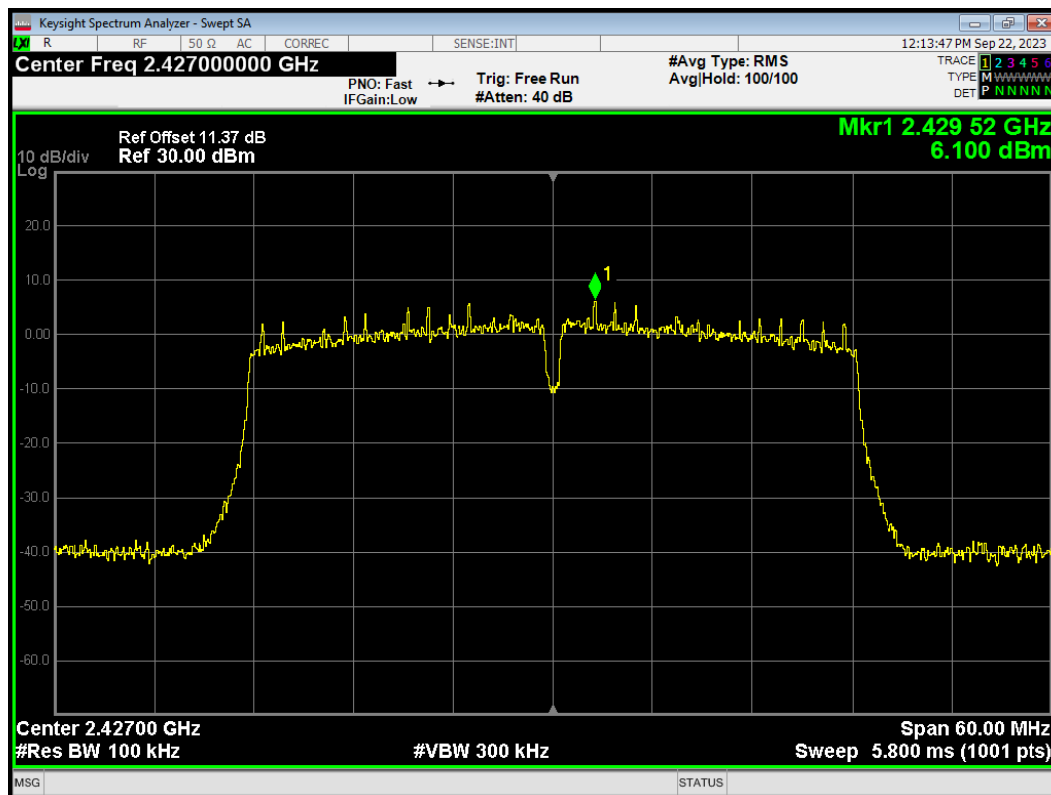
Band Edge 802.11n(HT40) 2422MHz Ref



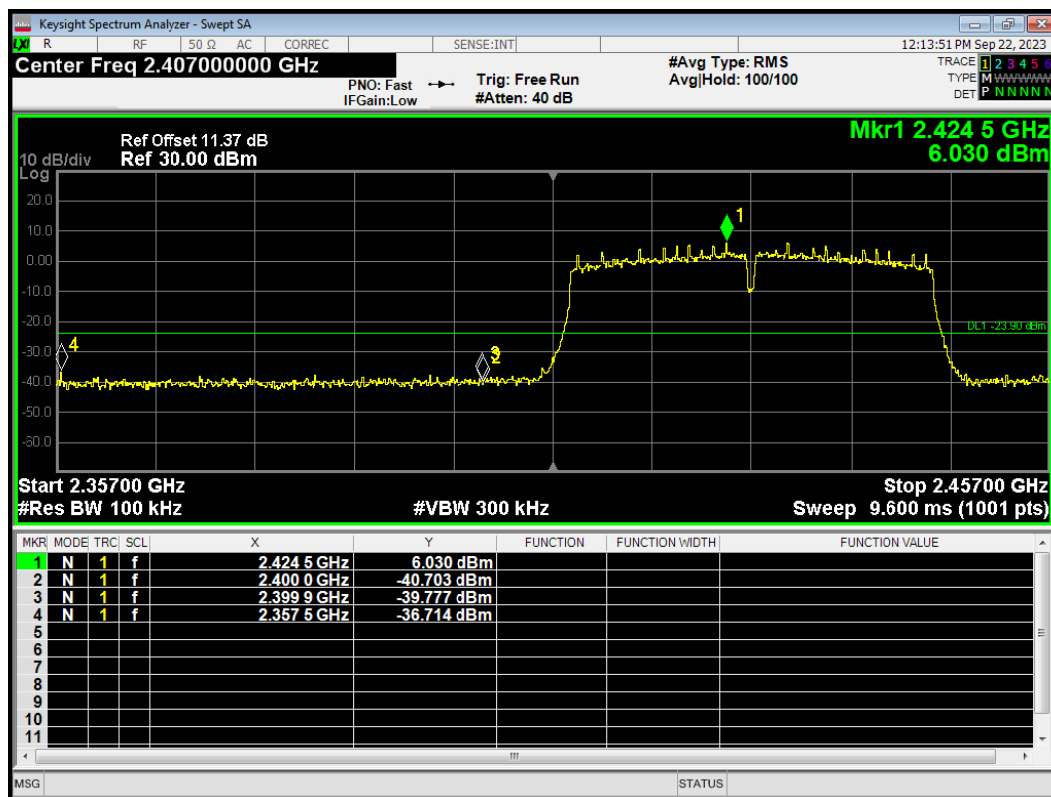
Band Edge 802.11n(HT40) 2422MHz Emission



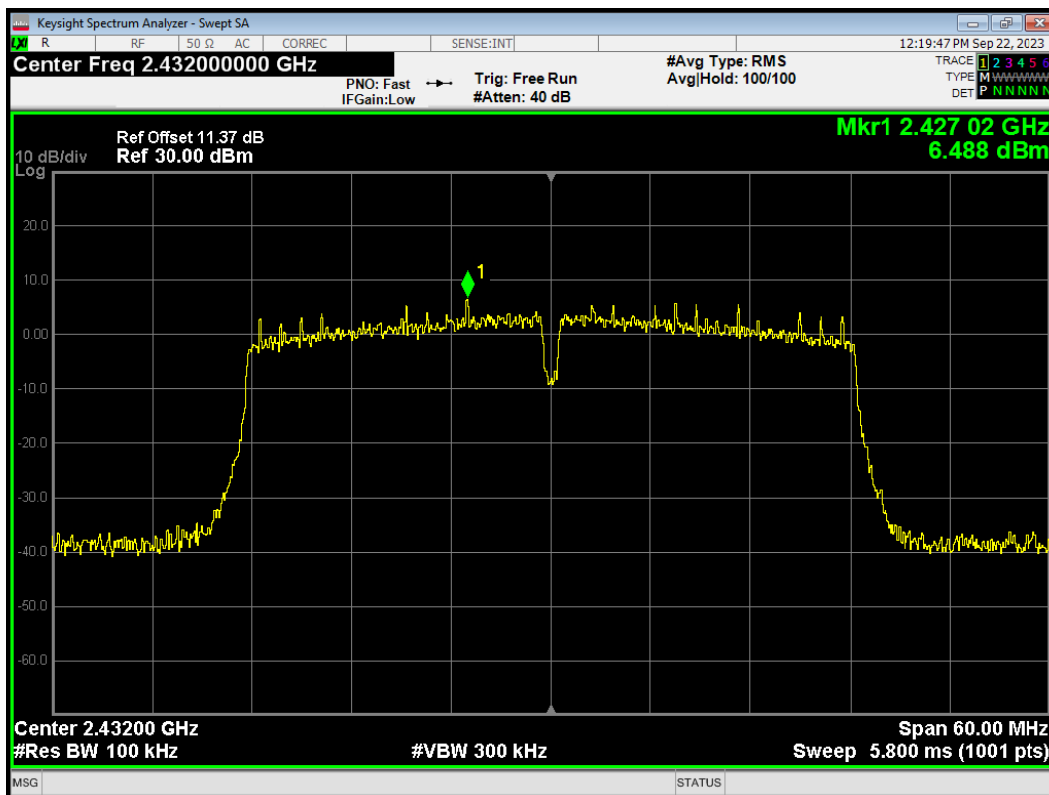
Band Edge 802.11n(HT40) 2427MHz Ref



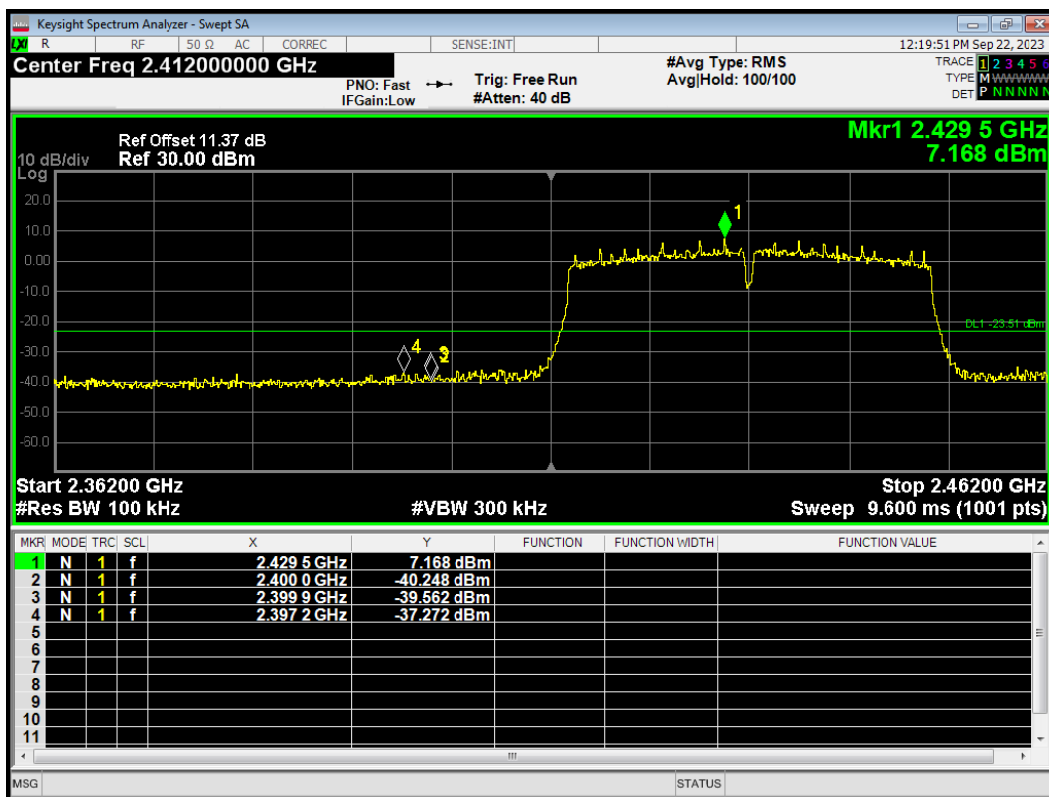
Band Edge 802.11n(HT40) 2427MHz Emission



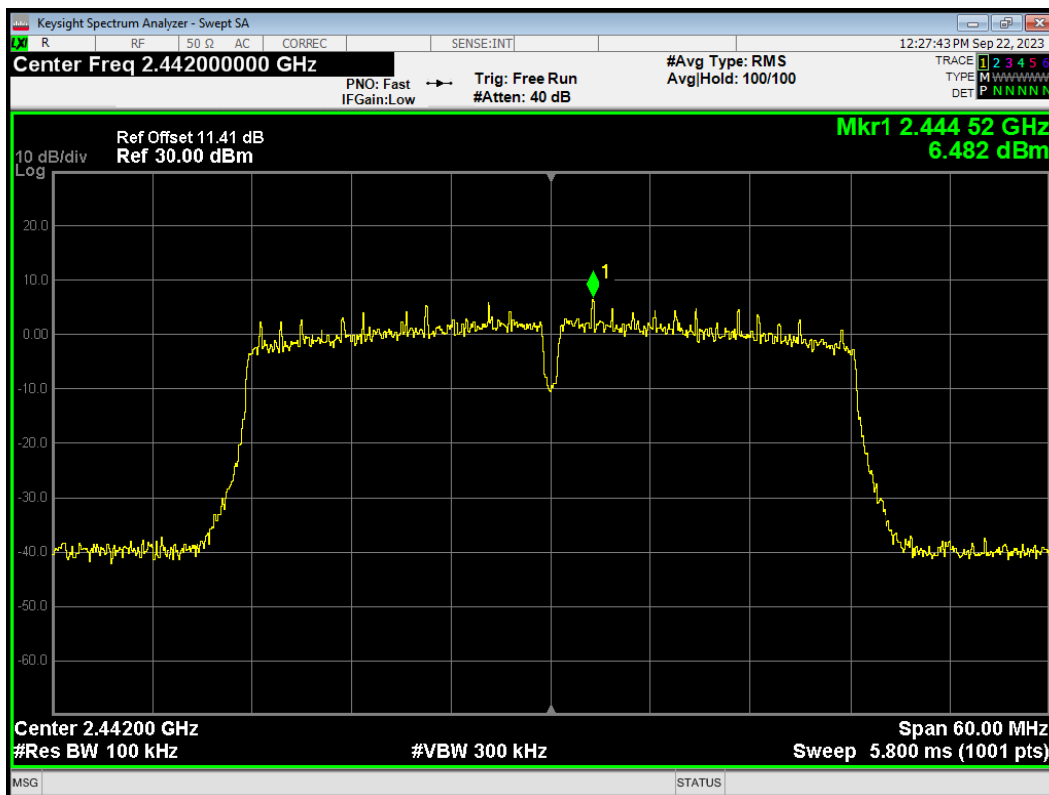
Band Edge 802.11n(HT40) 2432MHz Ref



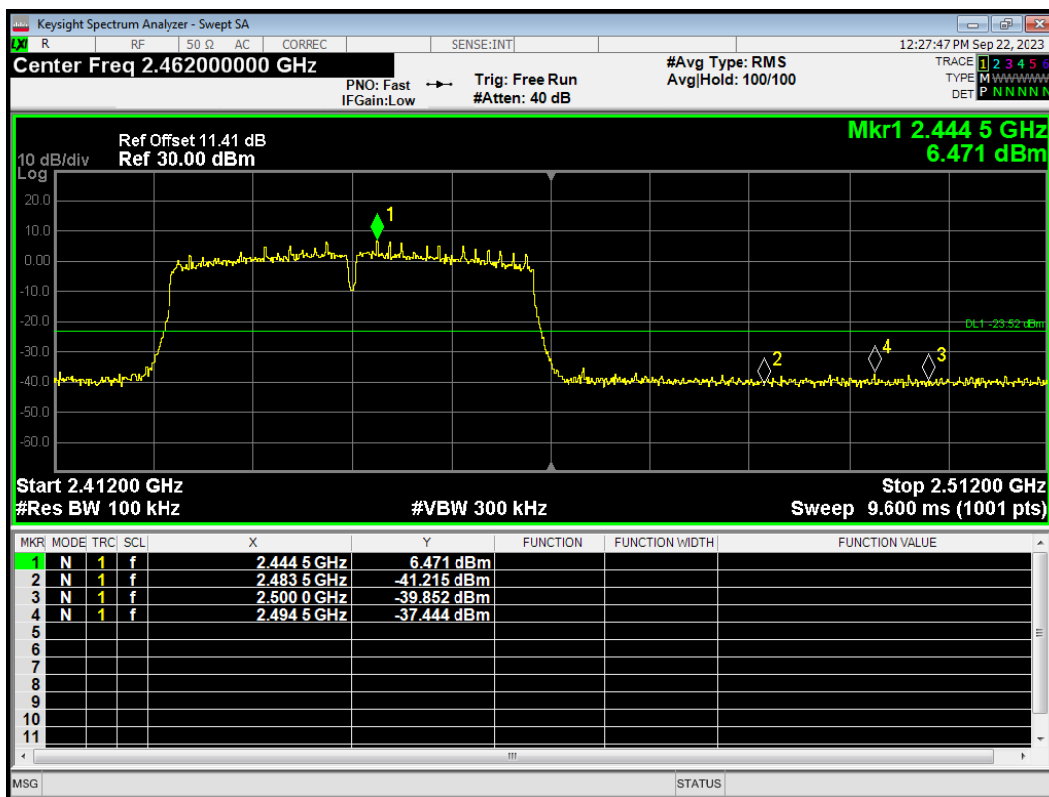
Band Edge 802.11n(HT40) 2432MHz Emission



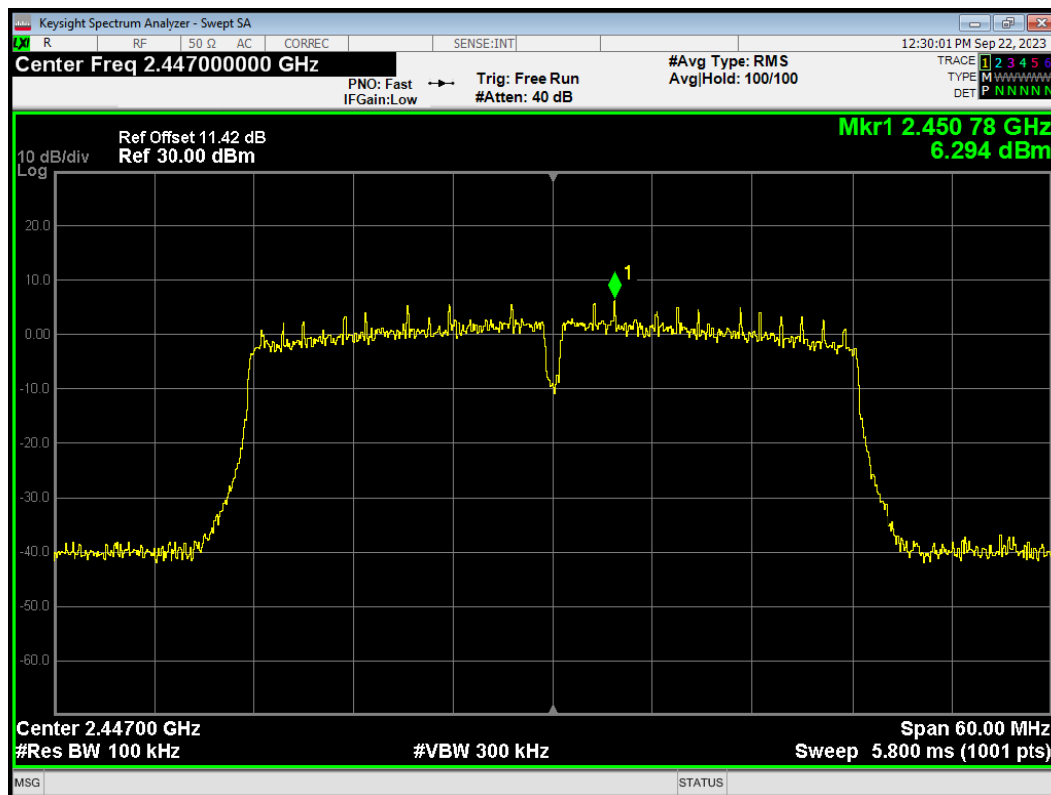
Band Edge 802.11n(HT40) 2442MHz Ref



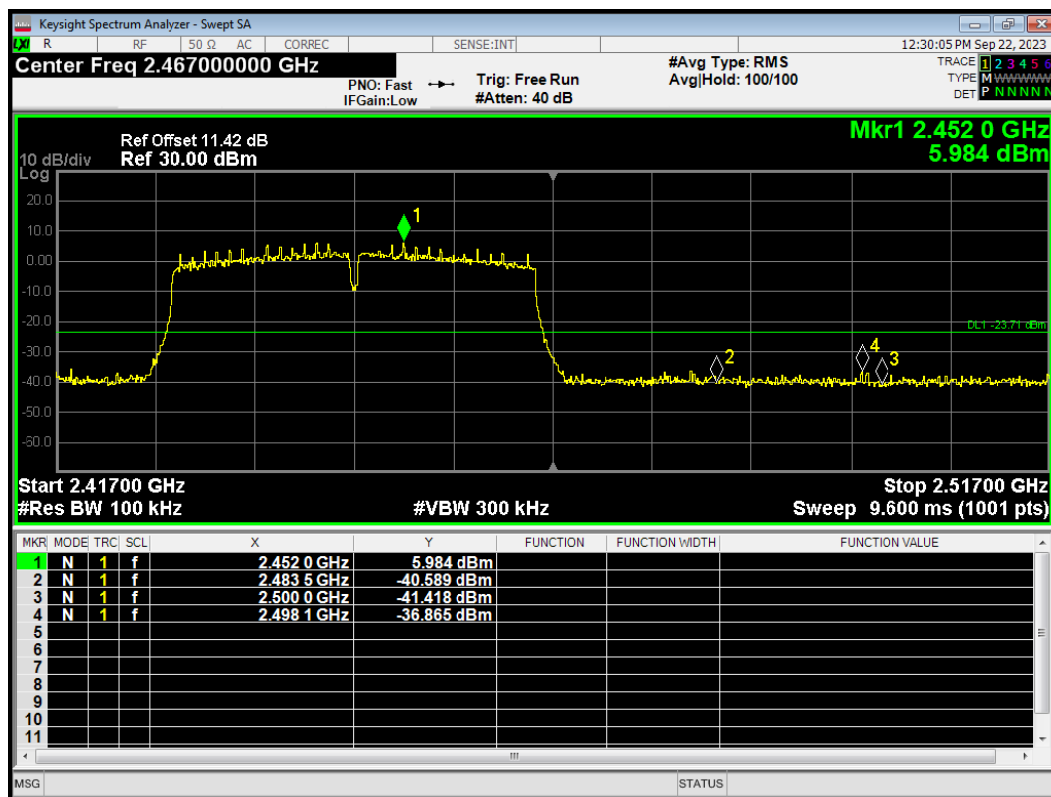
Band Edge 802.11n(HT40) 2442MHz Emission



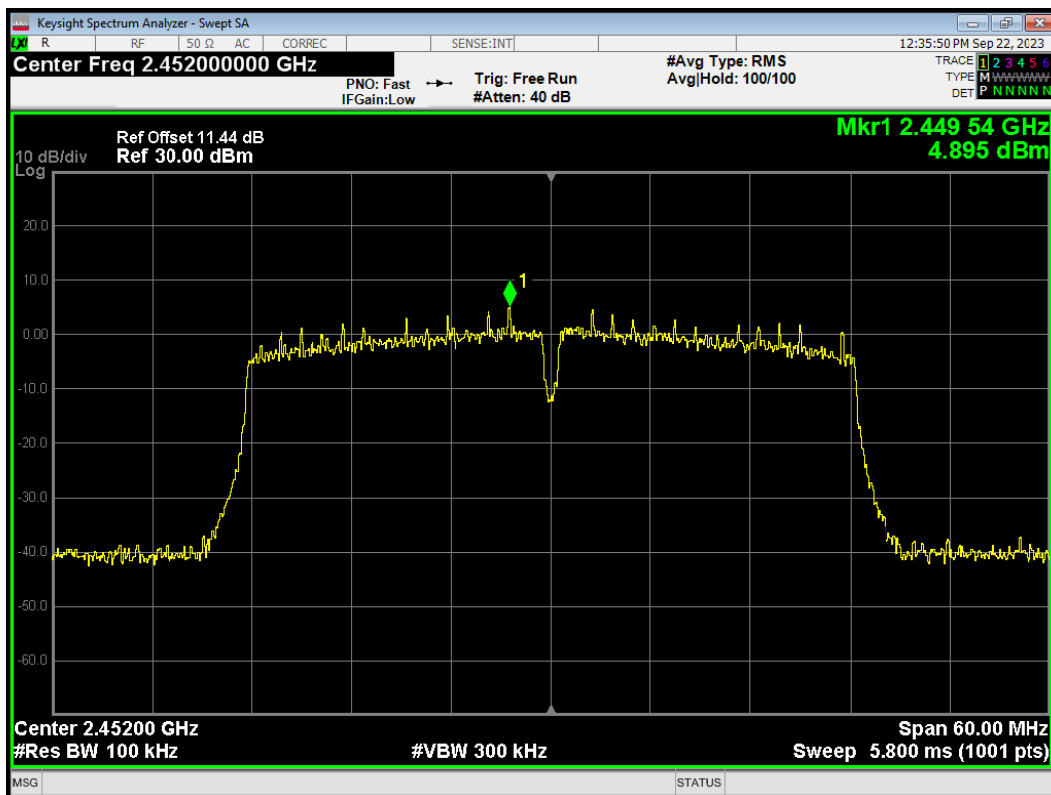
Band Edge 802.11n(HT40) 2447MHz Ref



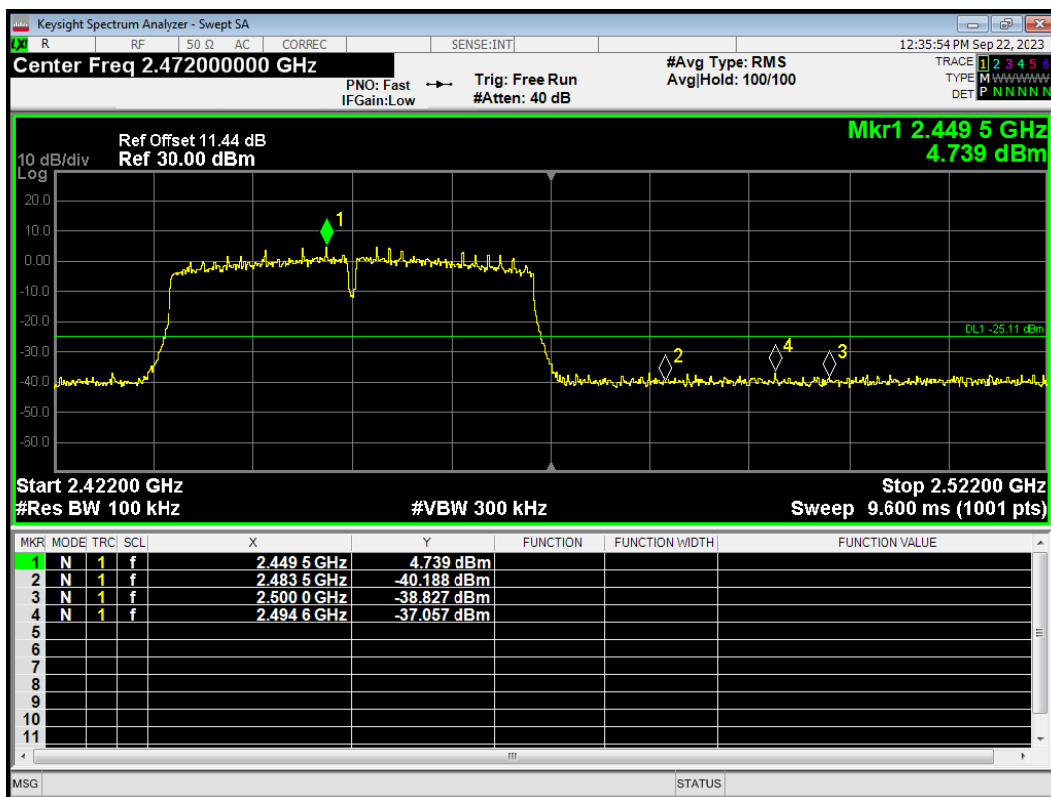
Band Edge 802.11n(HT40) 2447MHz Emission



Band Edge 802.11n(HT40) 2452MHz Ref

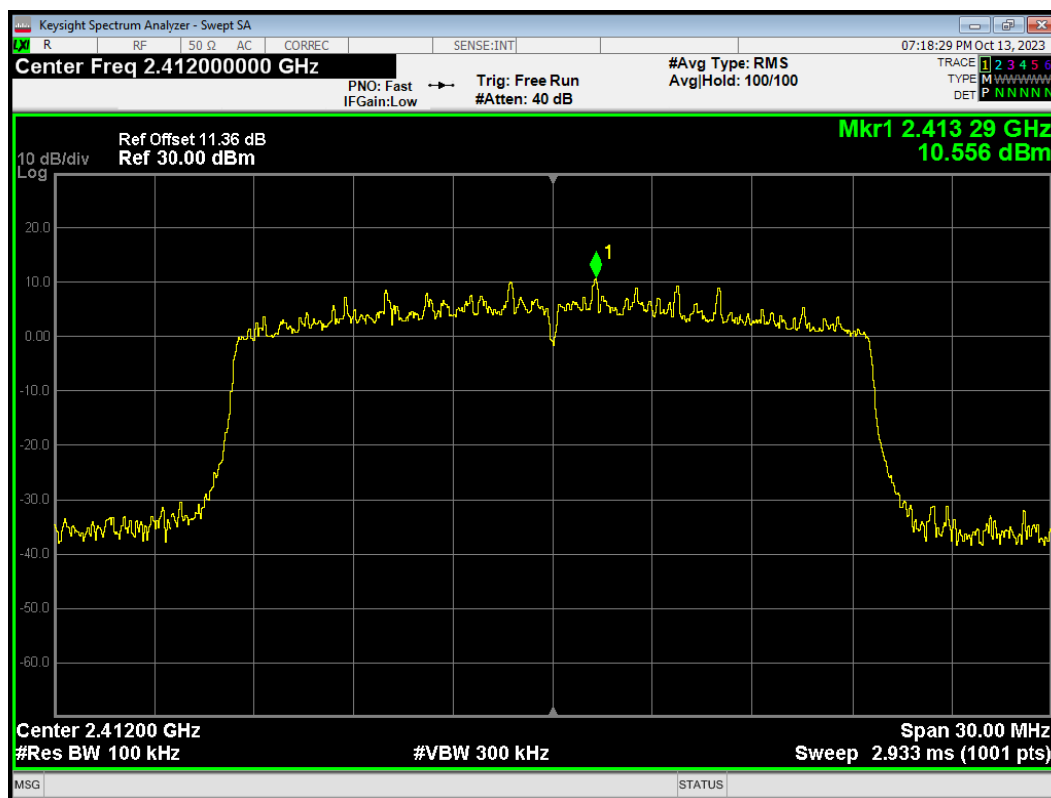


Band Edge 802.11n(HT40) 2452MHz Emission

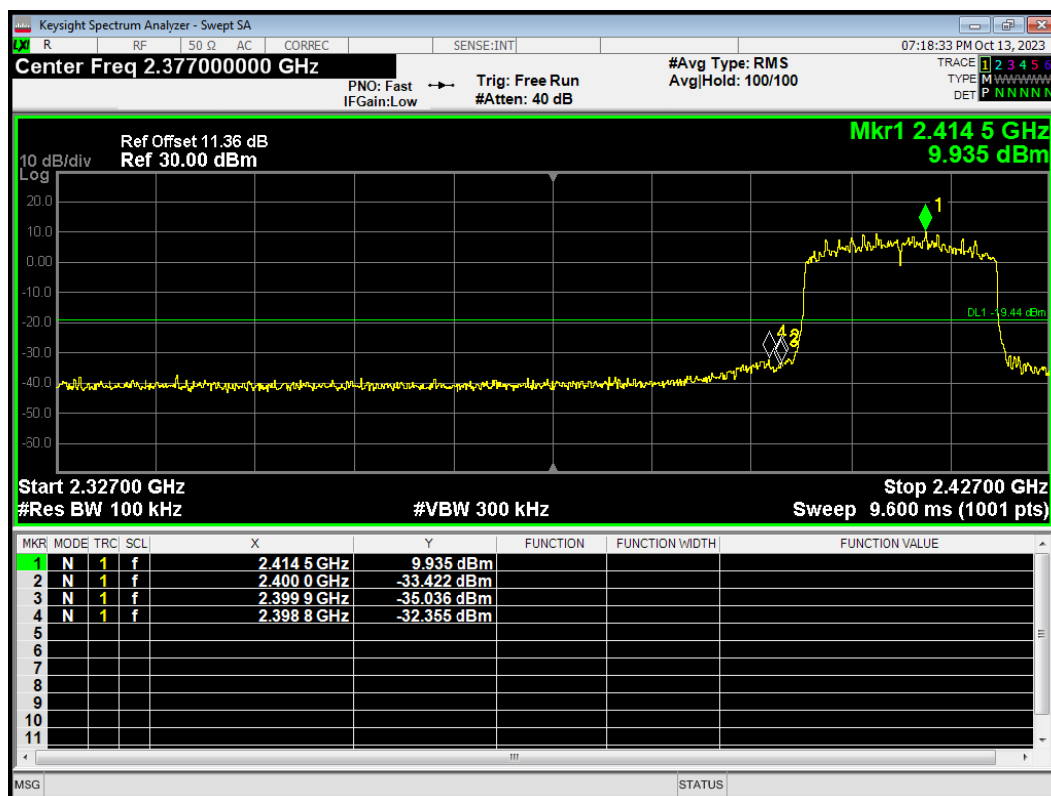


DZZ

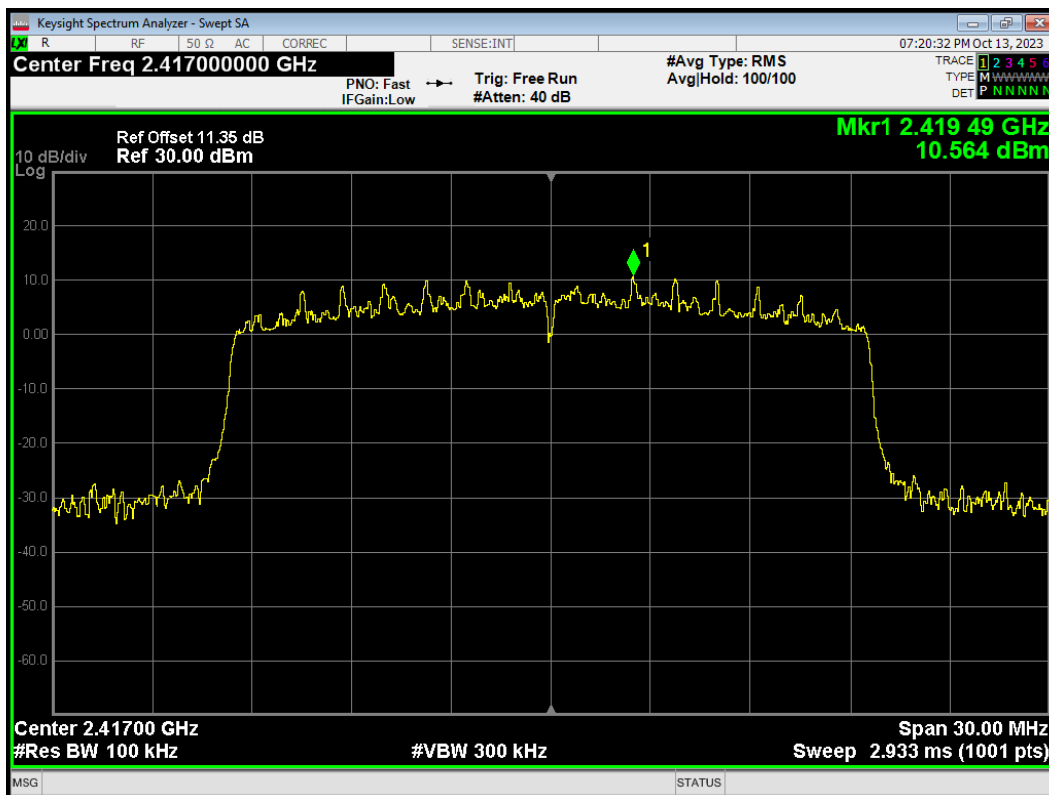
Band Edge 802.11ax(HE20) 2412MHz Ref



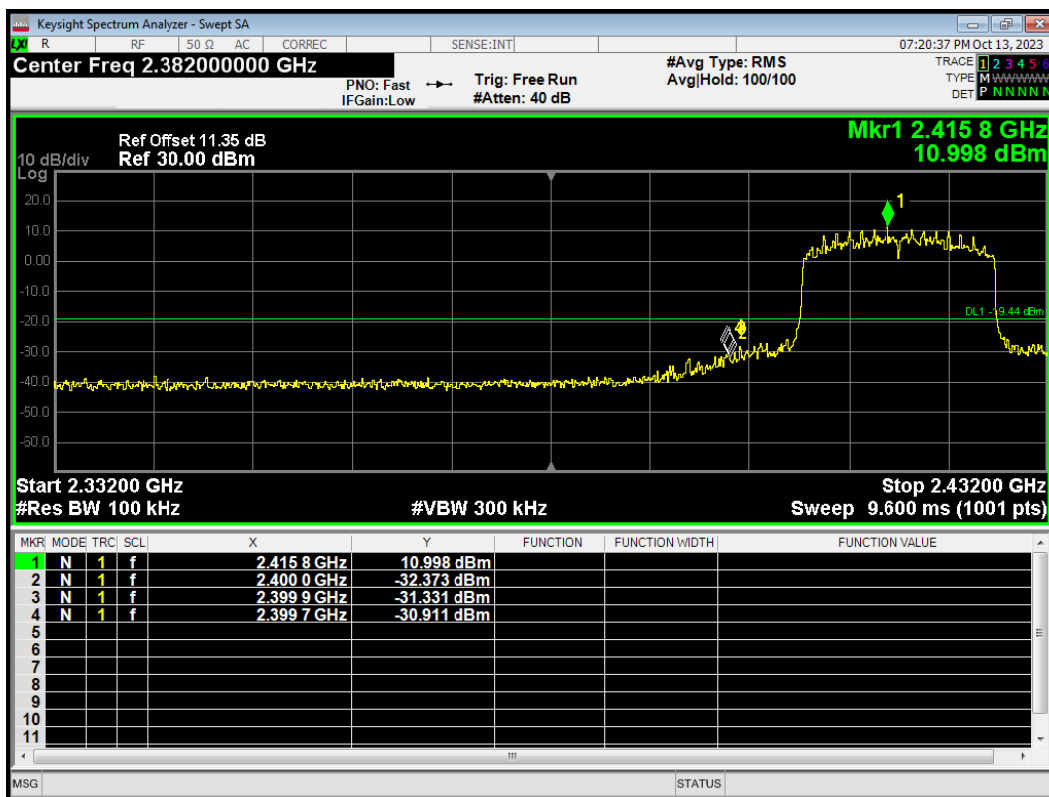
Band Edge 802.11ax(HE20) 2412MHz Emission



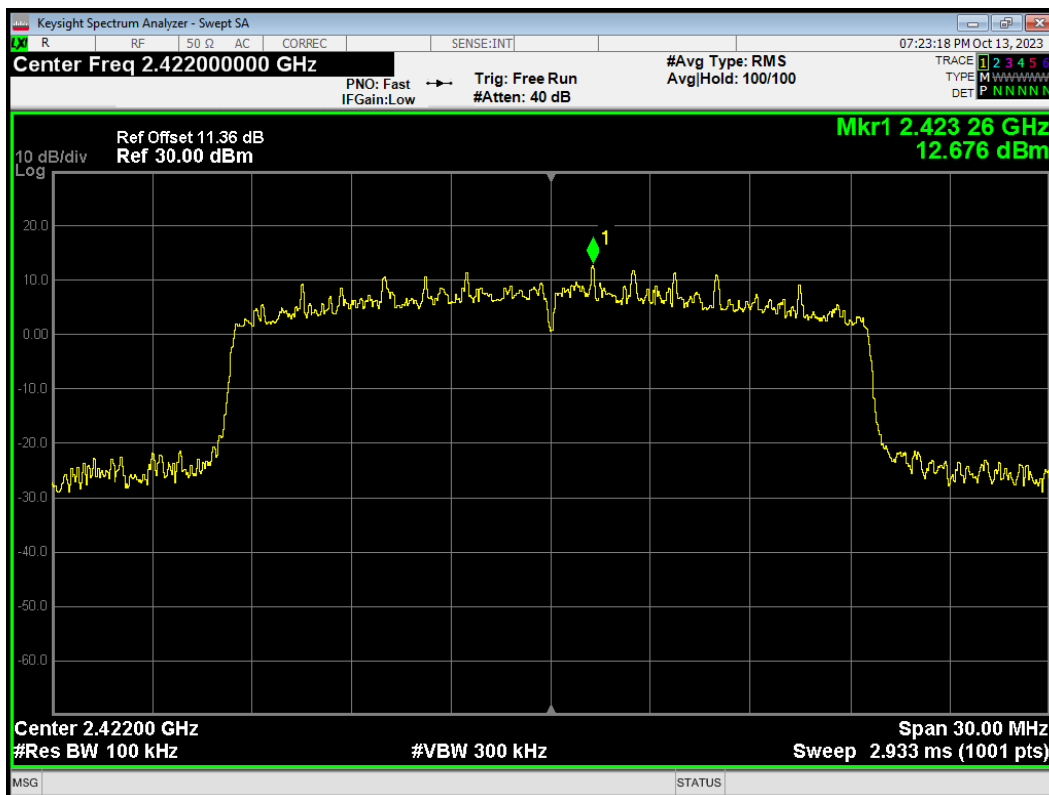
Band Edge 802.11ax(HE20) 2417MHz Ref



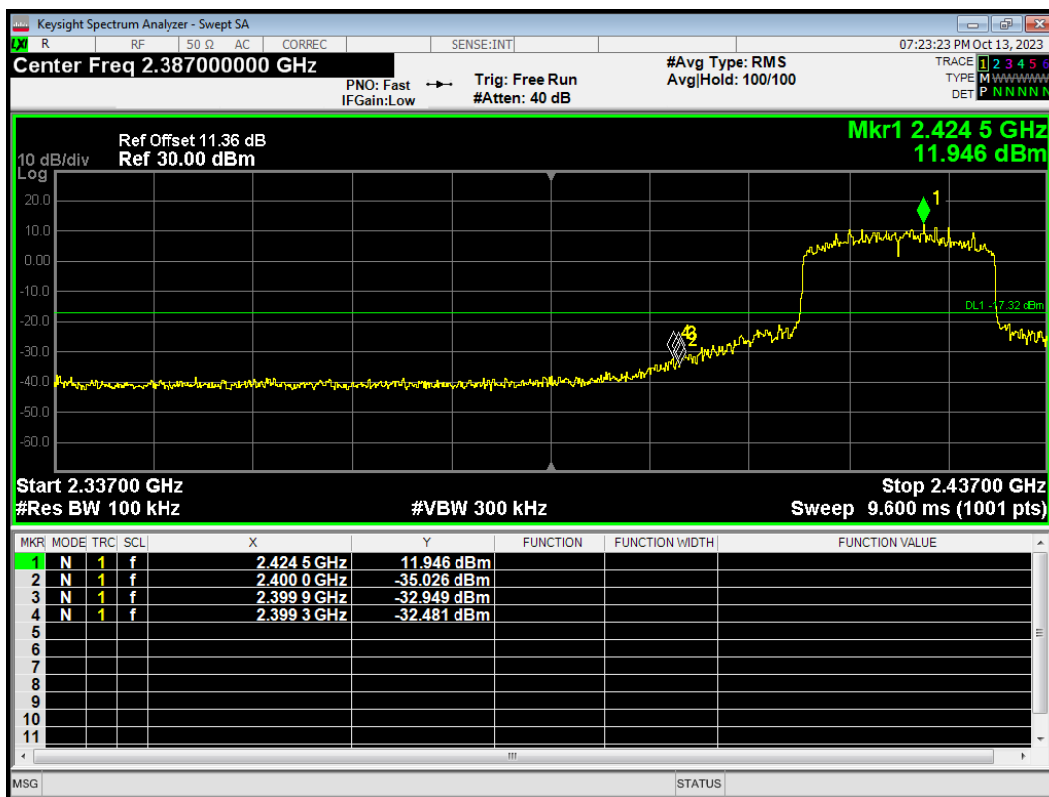
Band Edge 802.11ax(HE20) 2417MHz Emission



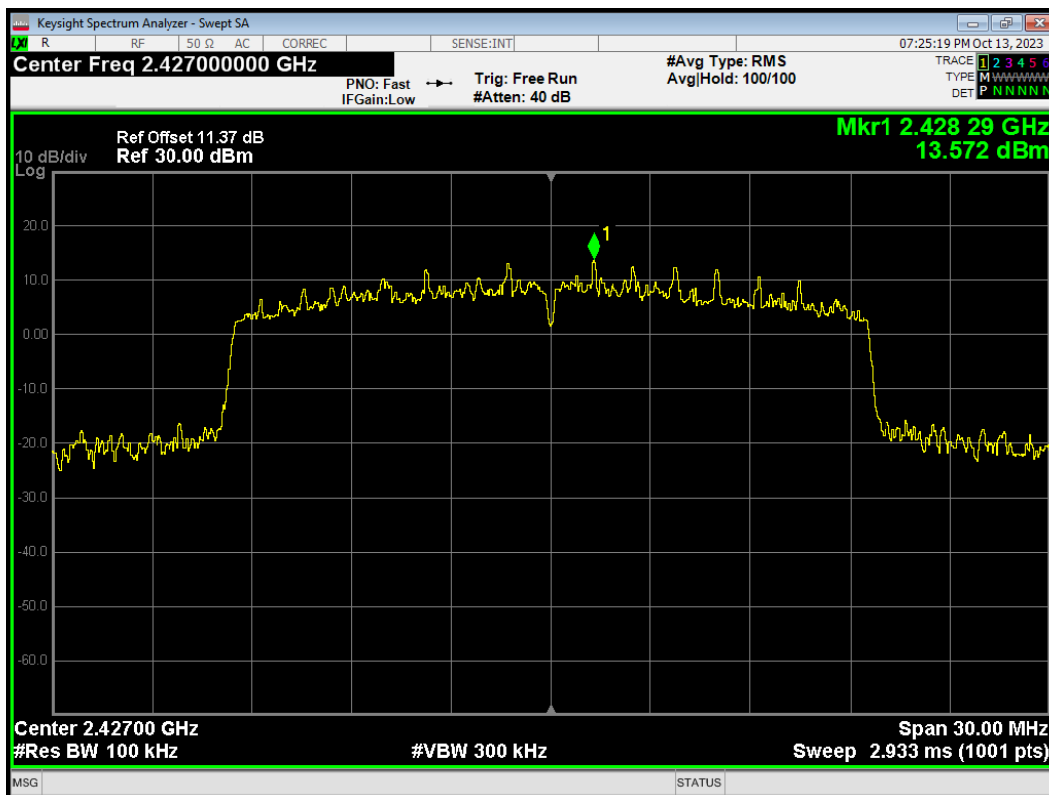
Band Edge 802.11ax(HE20) 2422MHz Ref



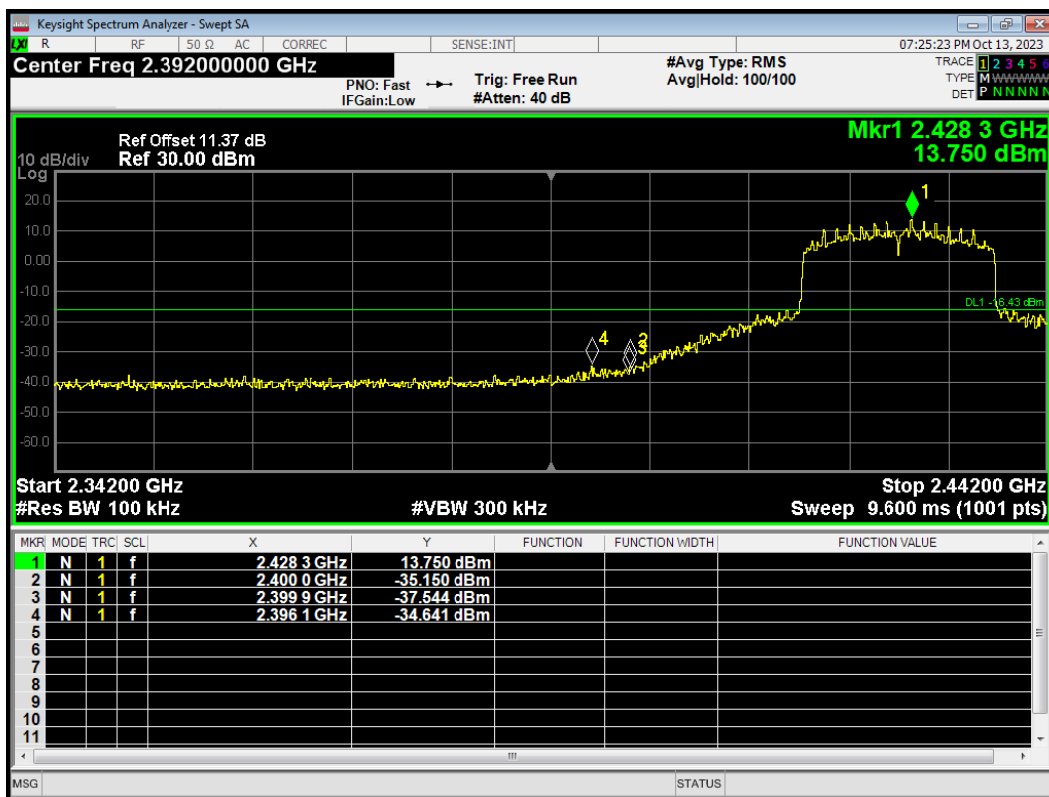
Band Edge 802.11ax(HE20) 2422MHz Emission



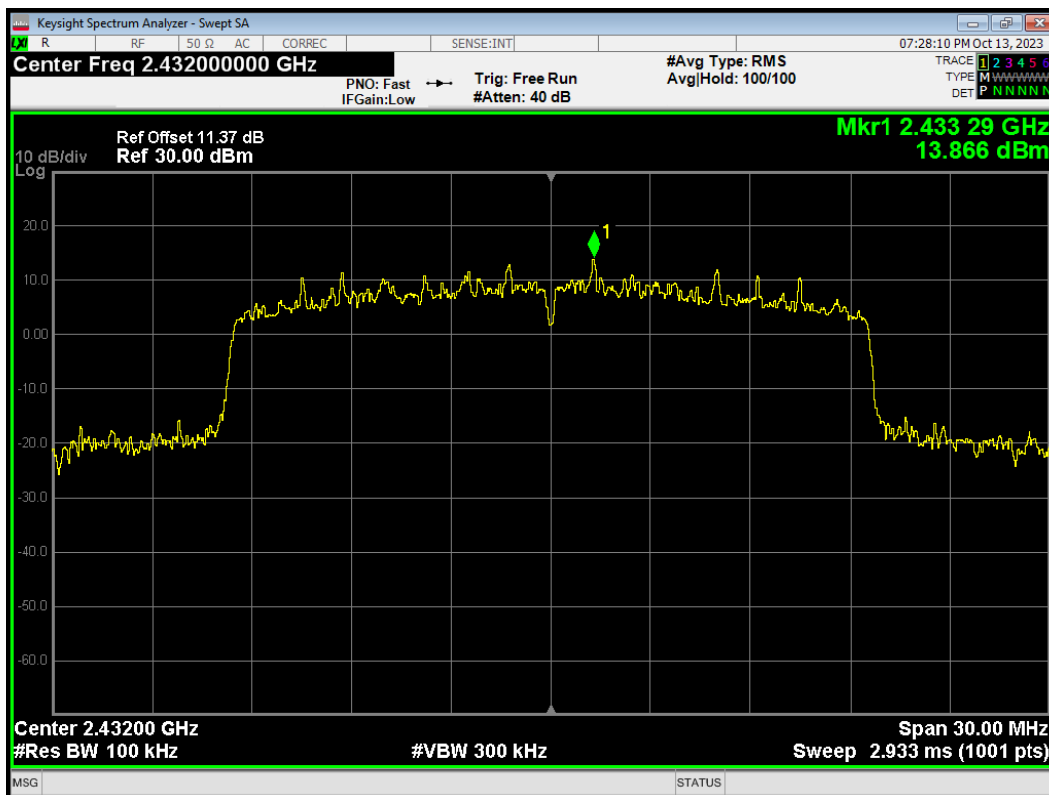
Band Edge 802.11ax(HE20) 2427MHz Ref



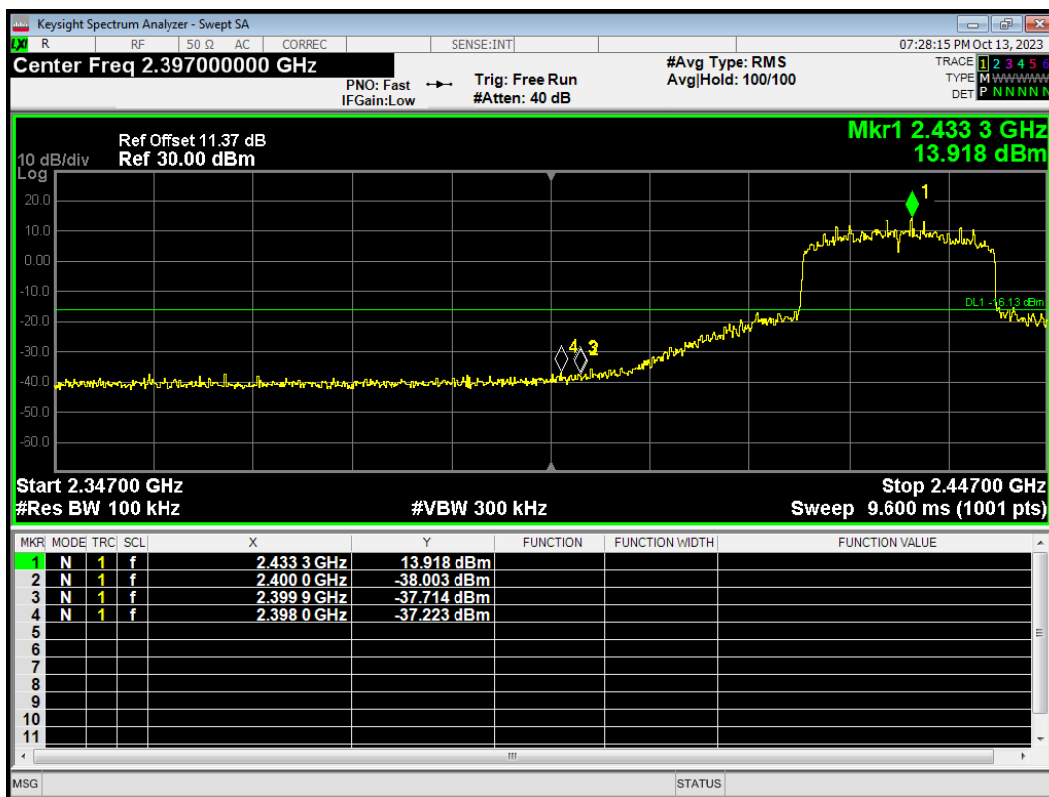
Band Edge 802.11ax(HE20) 2427MHz Emission



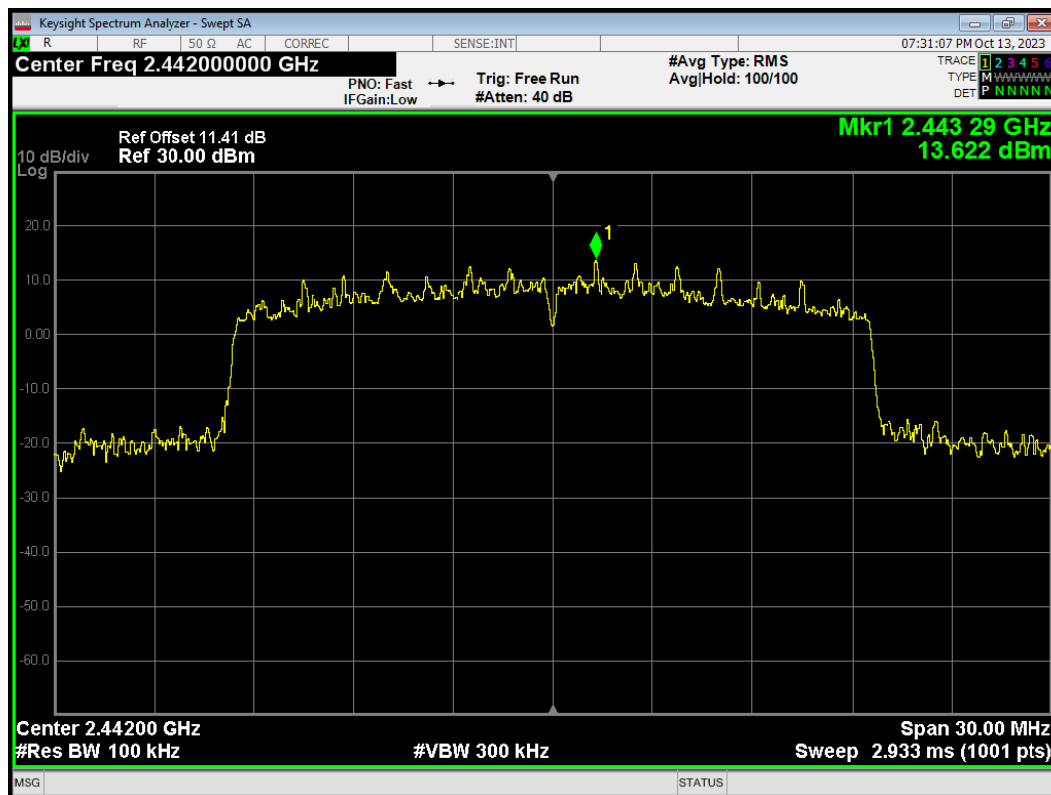
Band Edge 802.11ax(HE20) 2432MHz Ref



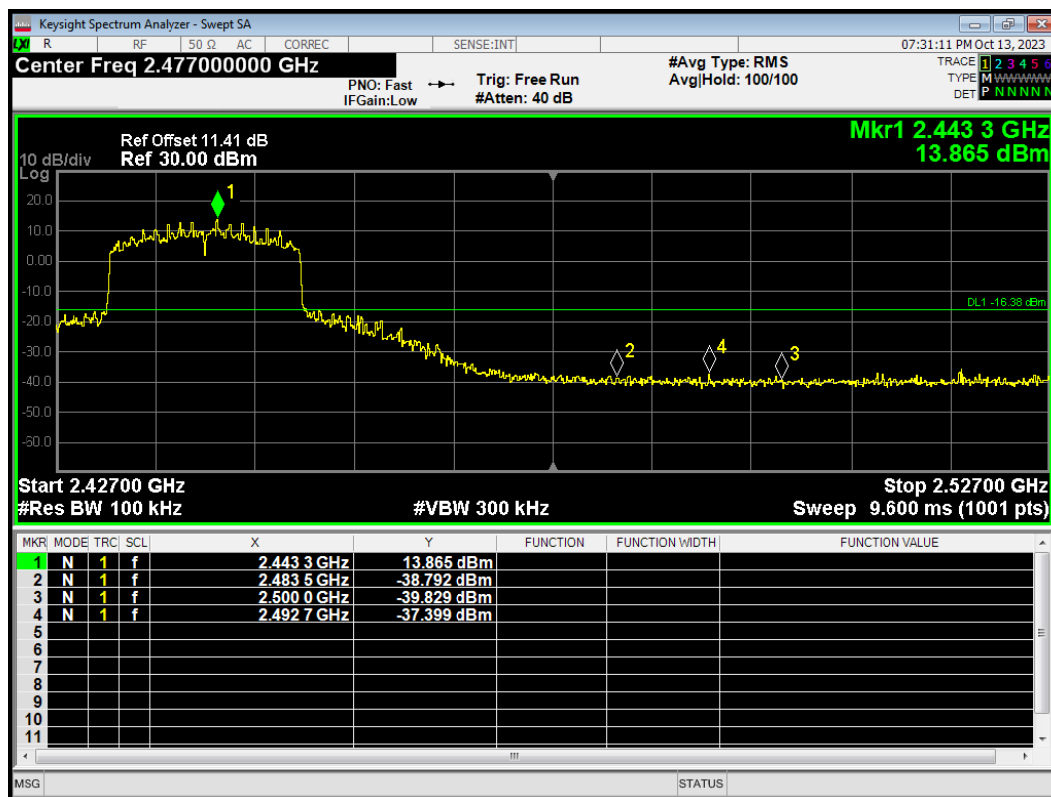
Band Edge 802.11ax(HE20) 2432MHz Emission



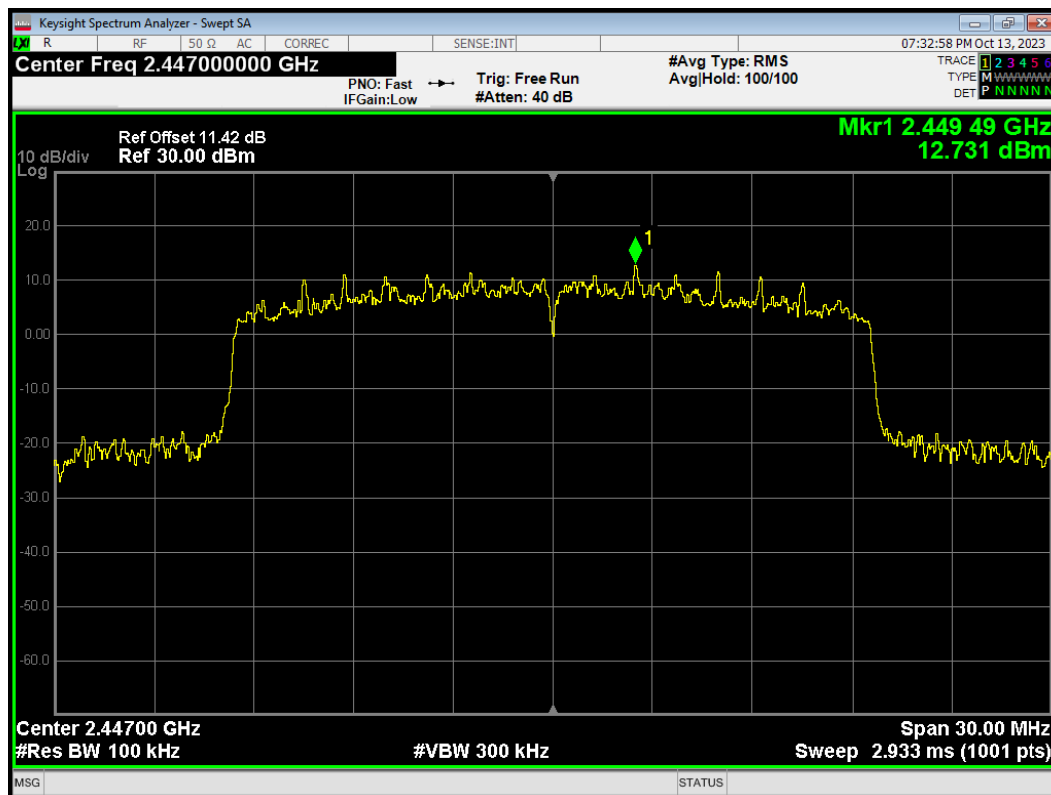
Band Edge 802.11ax(HE20) 2442MHz Ref



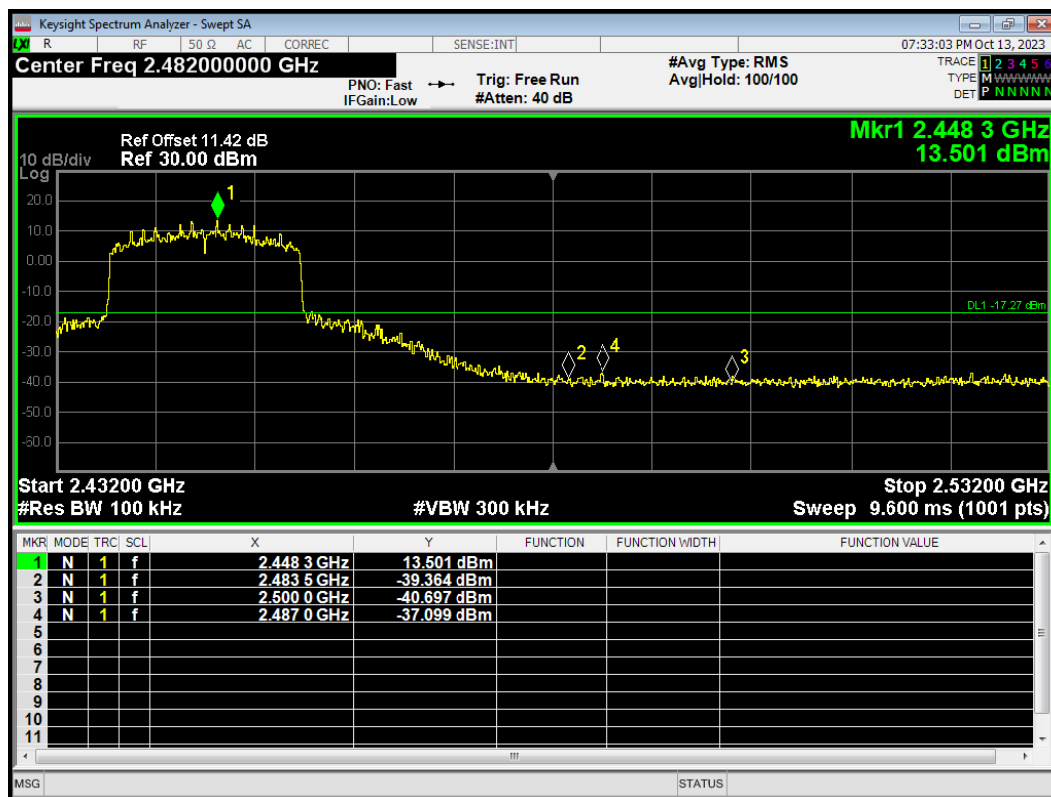
Band Edge 802.11ax(HE20) 2442MHz Emission



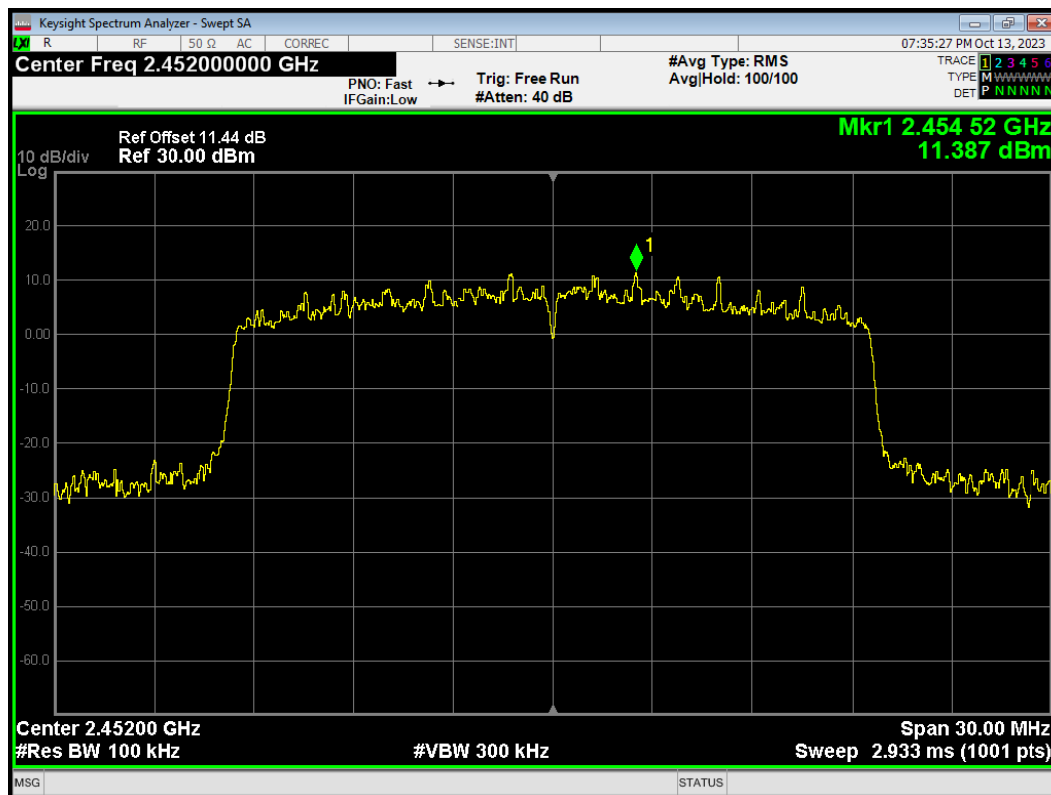
Band Edge 802.11ax(HE20) 2447MHz Ref



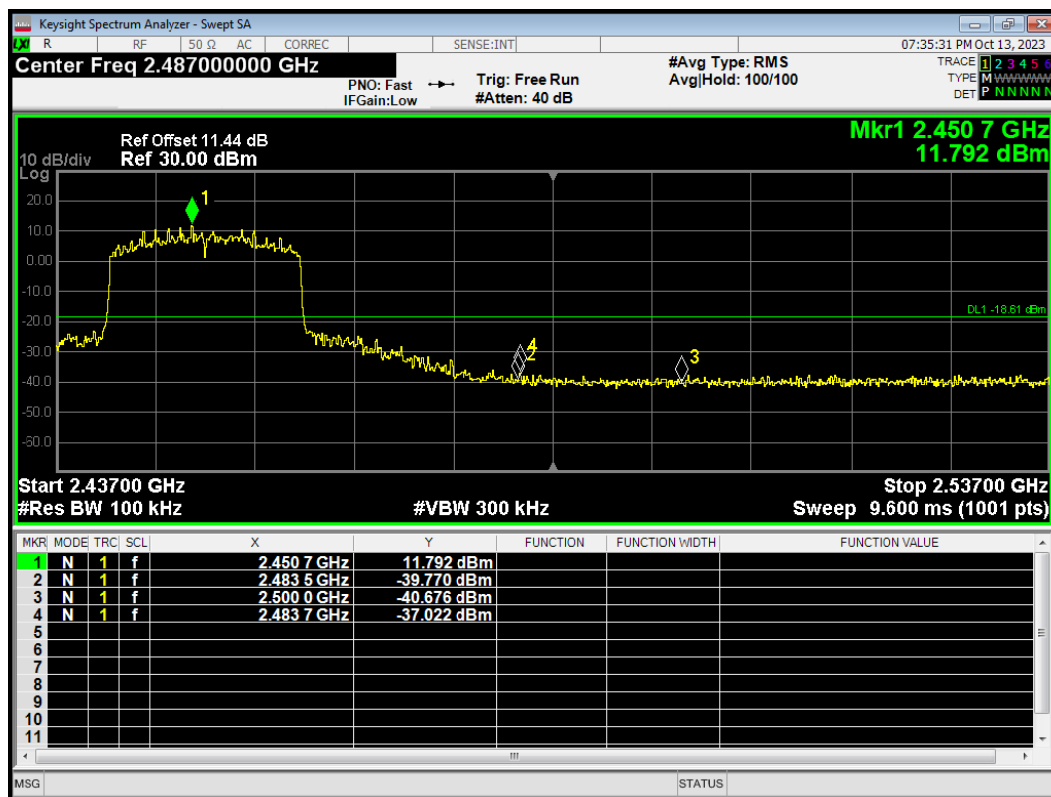
Band Edge 802.11ax(HE20) 2447MHz Emission



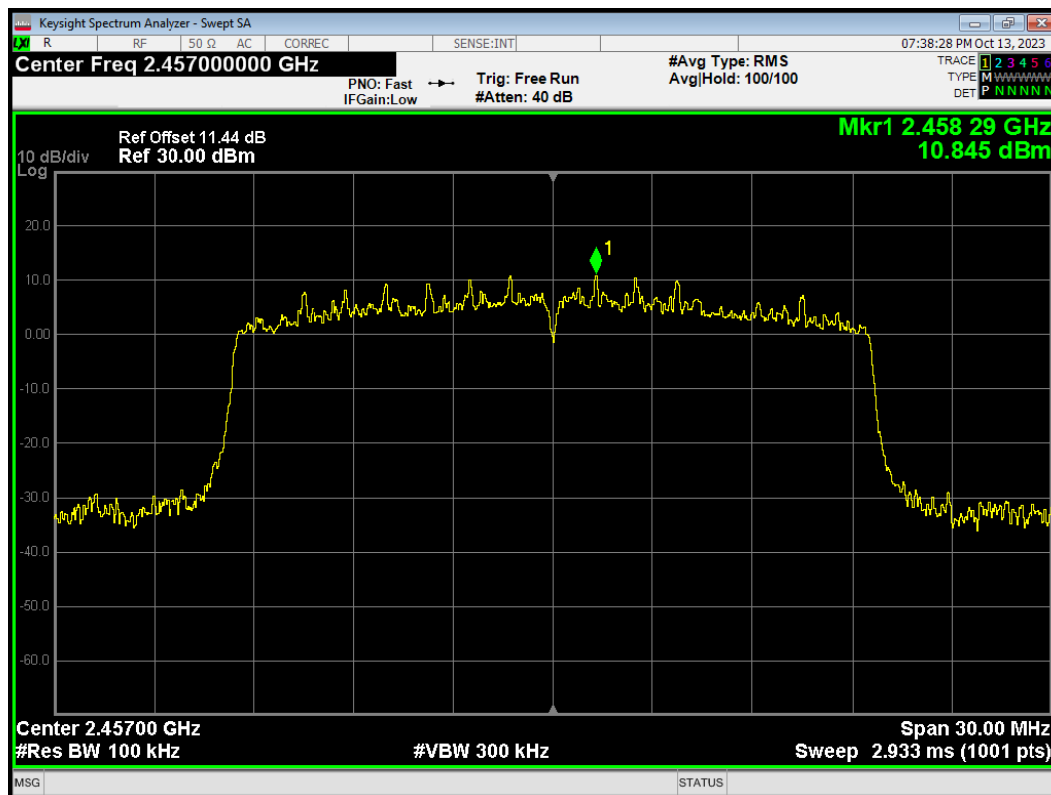
Band Edge 802.11ax(HE20) 2452MHz Ref



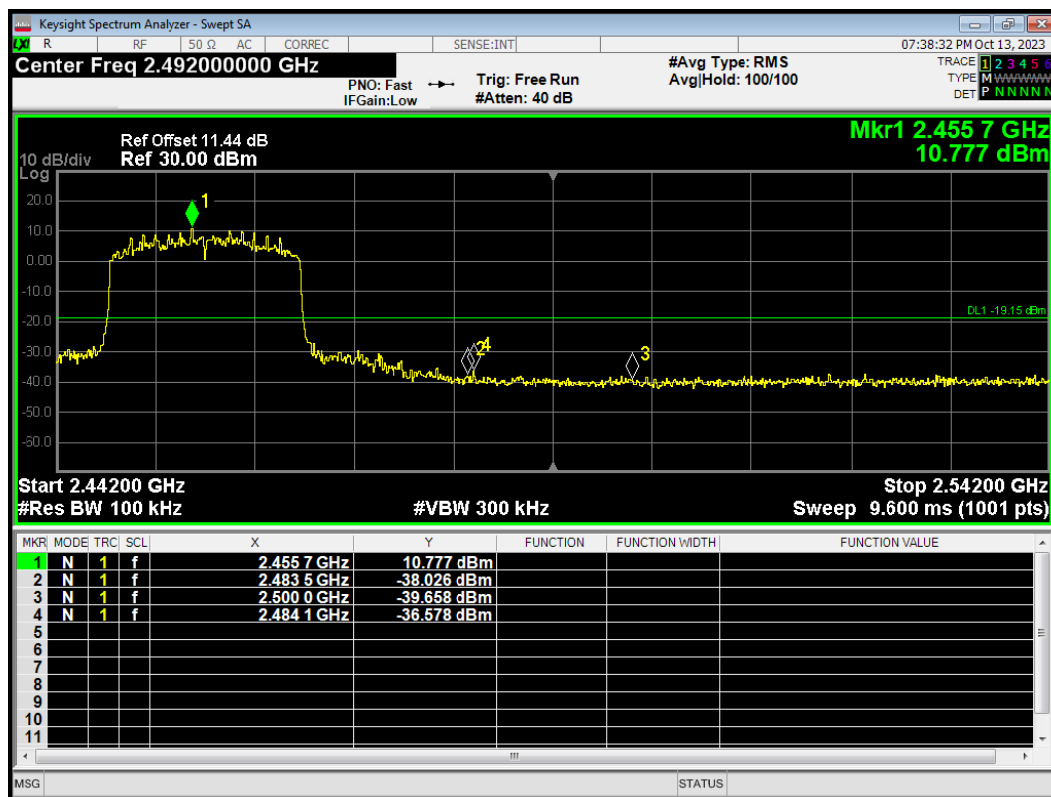
Band Edge 802.11ax(HE20) 2452MHz Emission



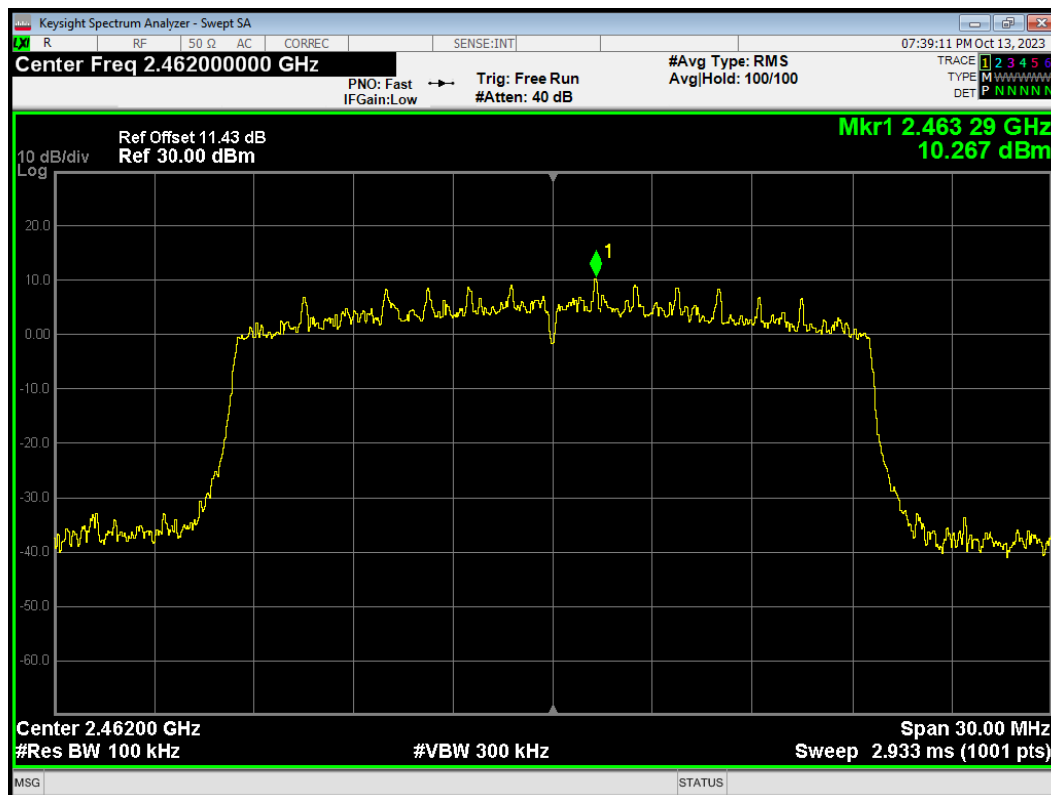
Band Edge 802.11ax(HE20) 2457MHz Ref



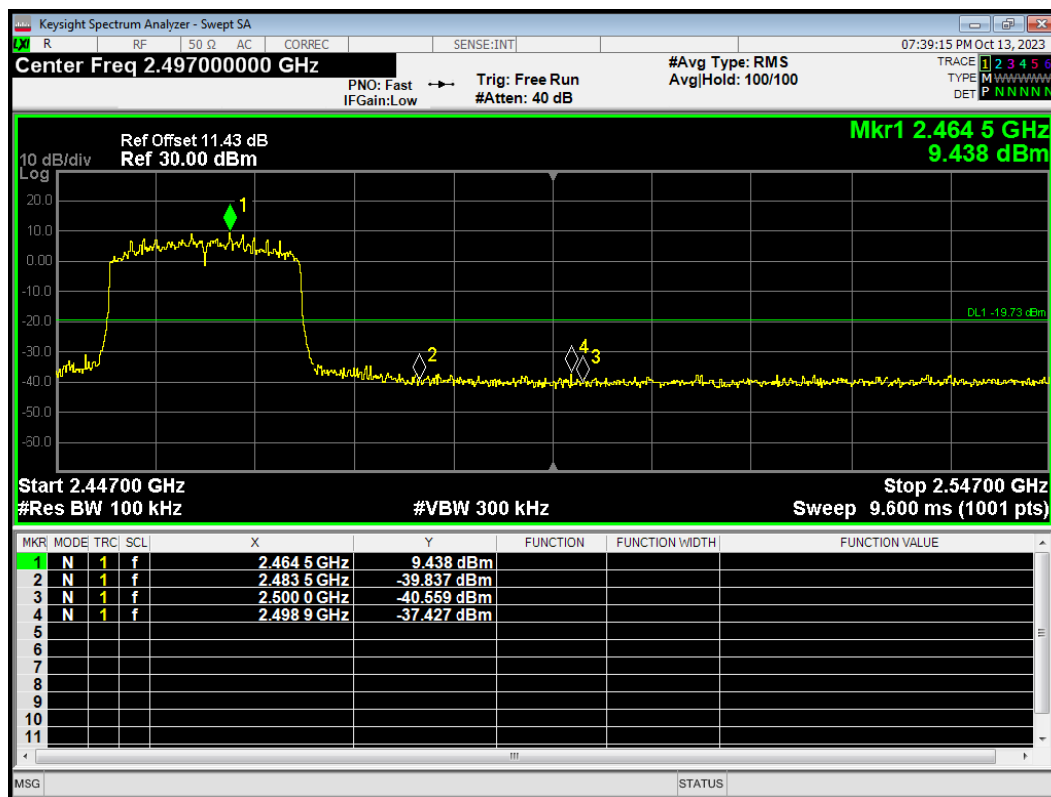
Band Edge 802.11ax(HE20) 2457MHz Emission



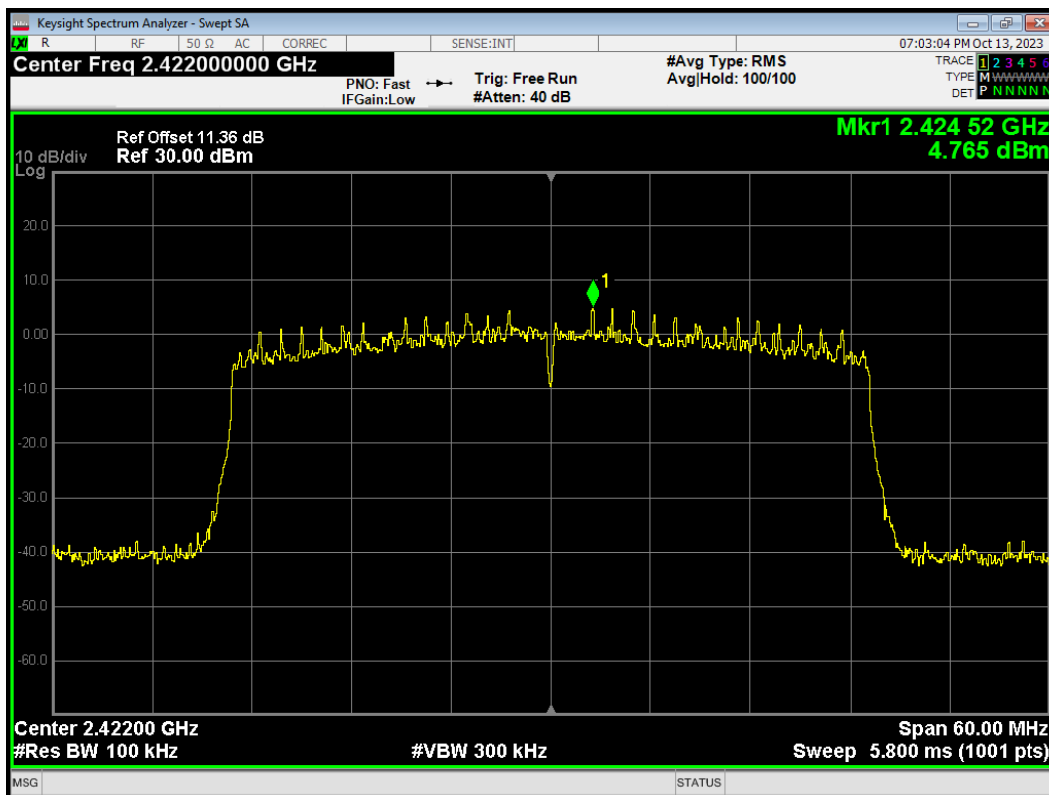
Band Edge 802.11ax(HE20) 2462MHz Ref



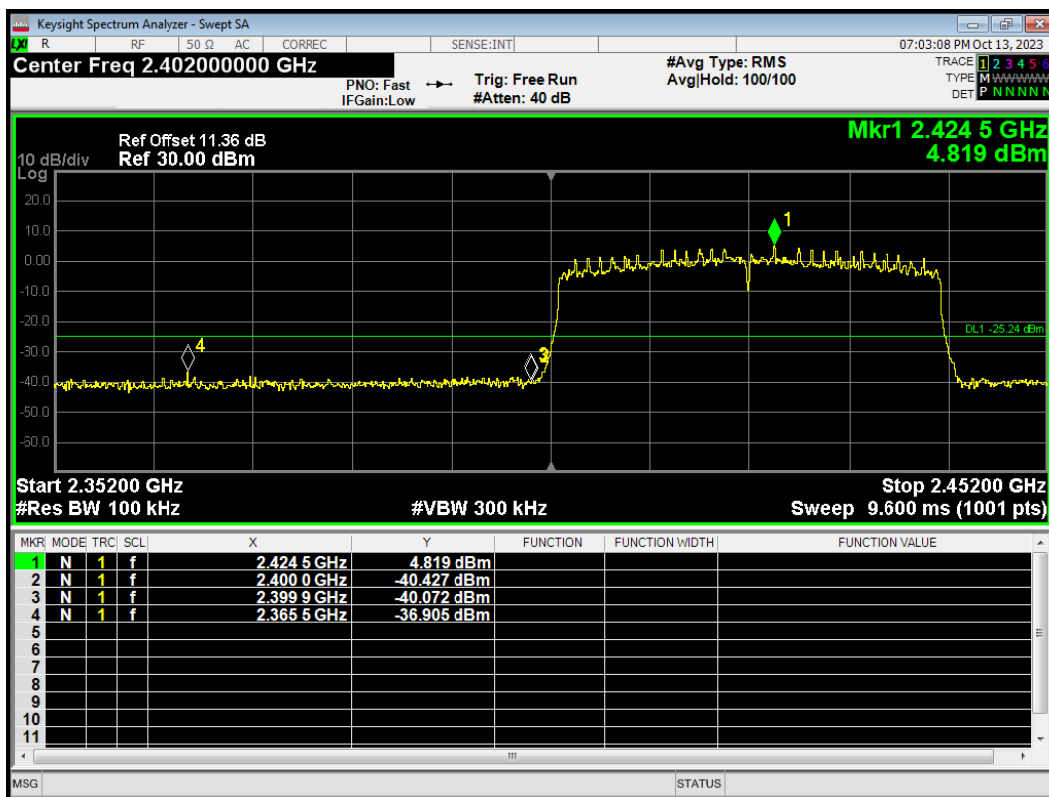
Band Edge 802.11ax(HE20) 2462MHz Emission



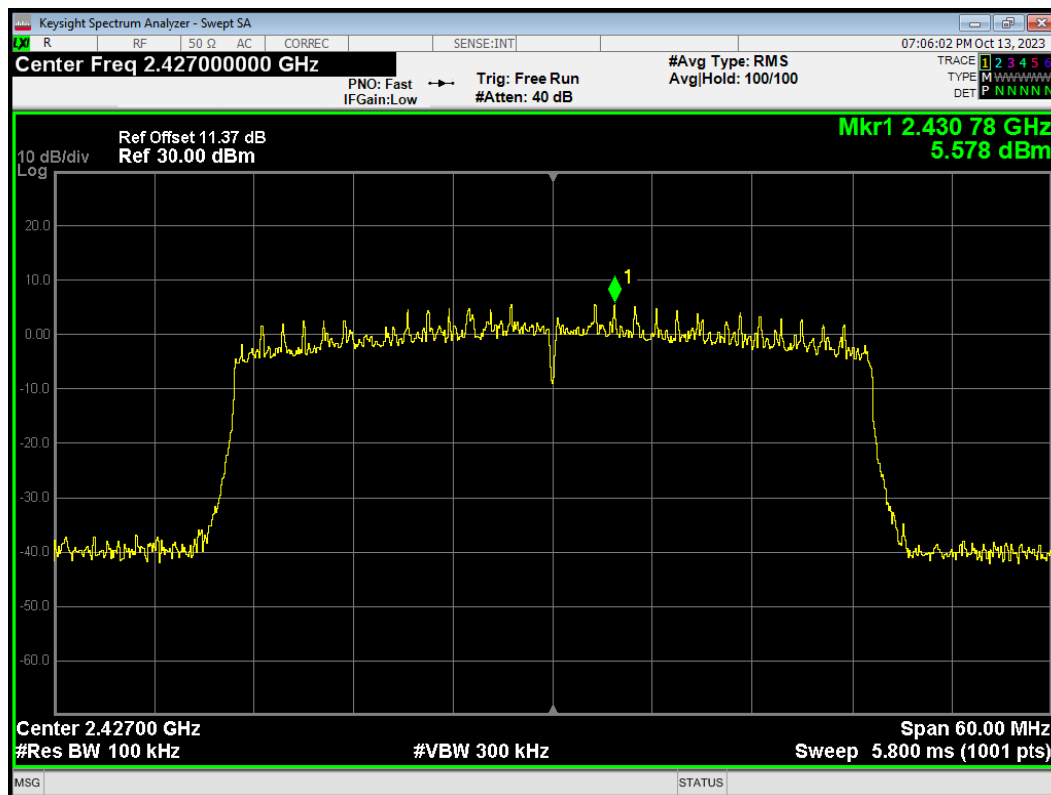
Band Edge 802.11ax(HE40) 2422MHz Ref



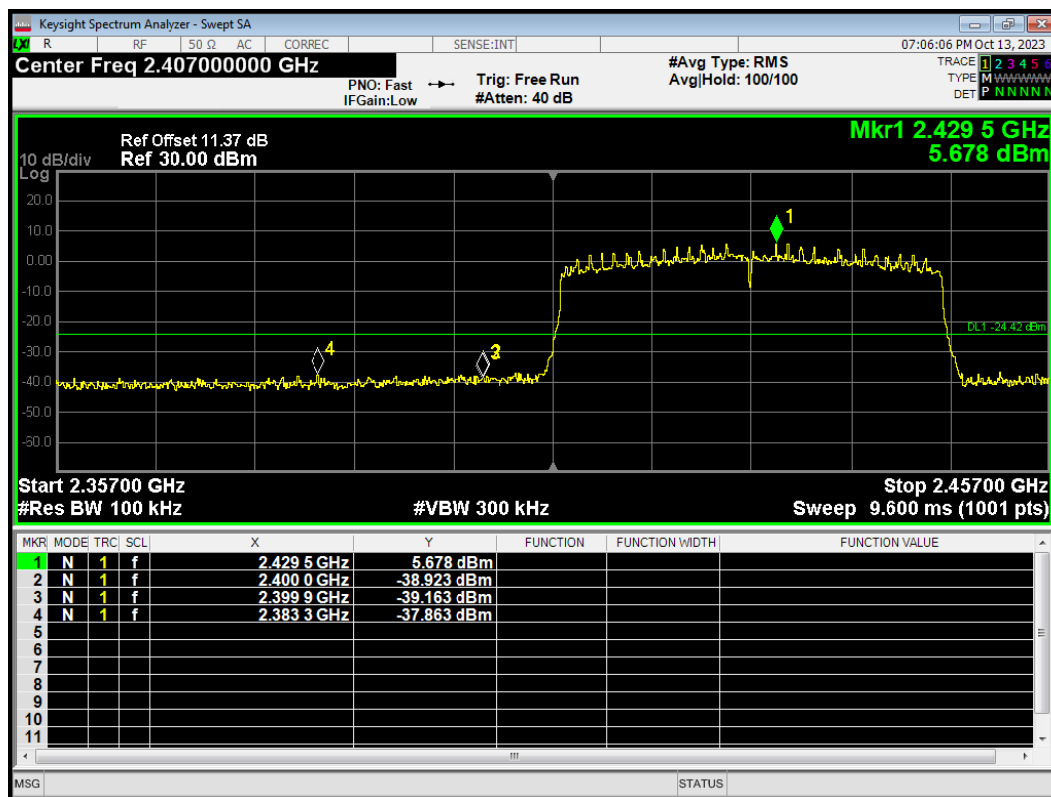
Band Edge 802.11ax(HE40) 2422MHz Emission



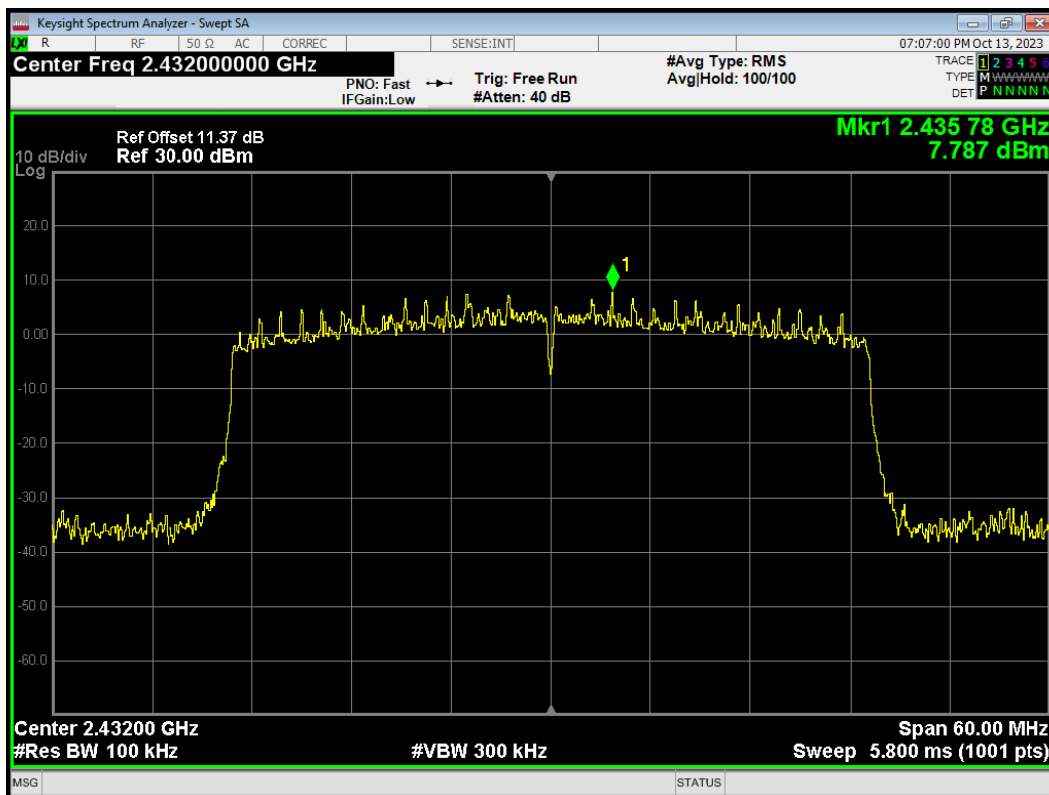
Band Edge 802.11ax(HE40) 2427MHz Ref



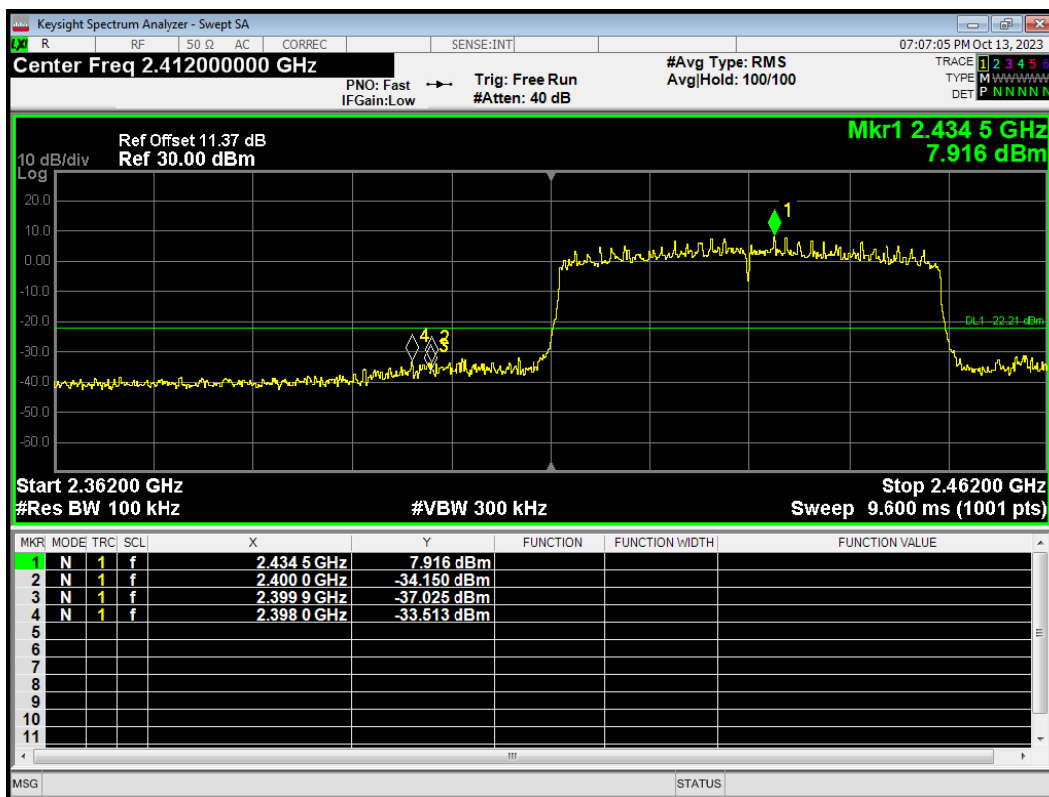
Band Edge 802.11ax(HE40) 2427MHz Emission



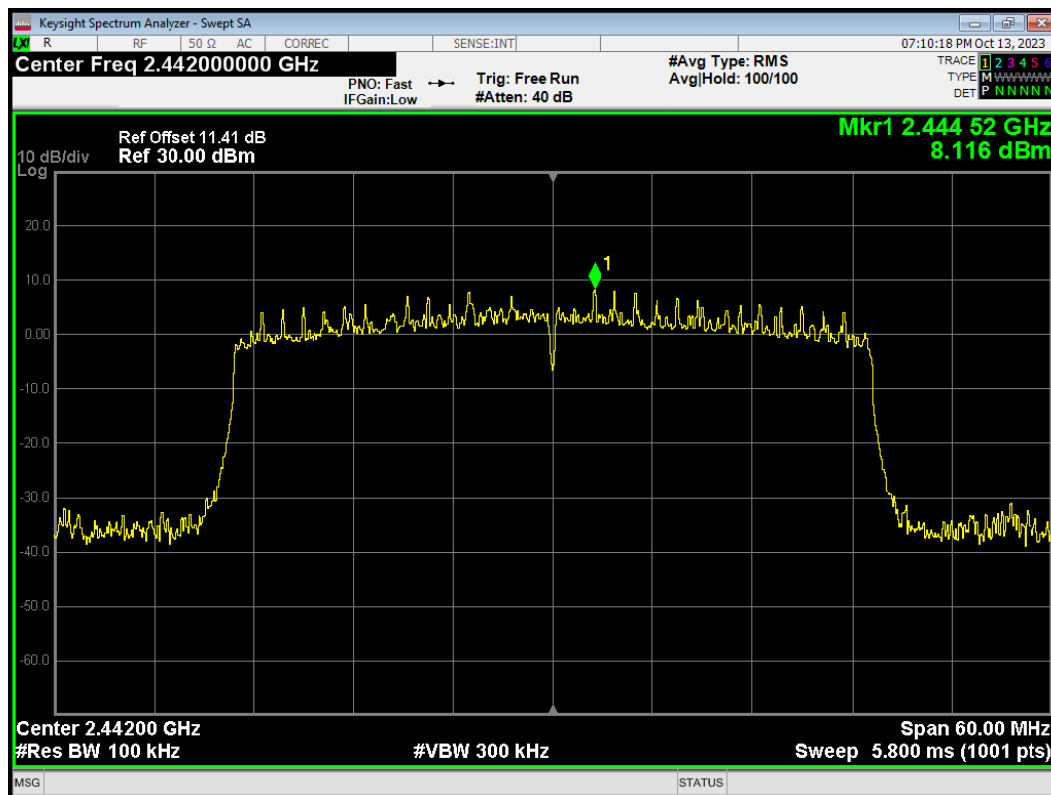
Band Edge 802.11ax(HE40) 2432MHz Ref



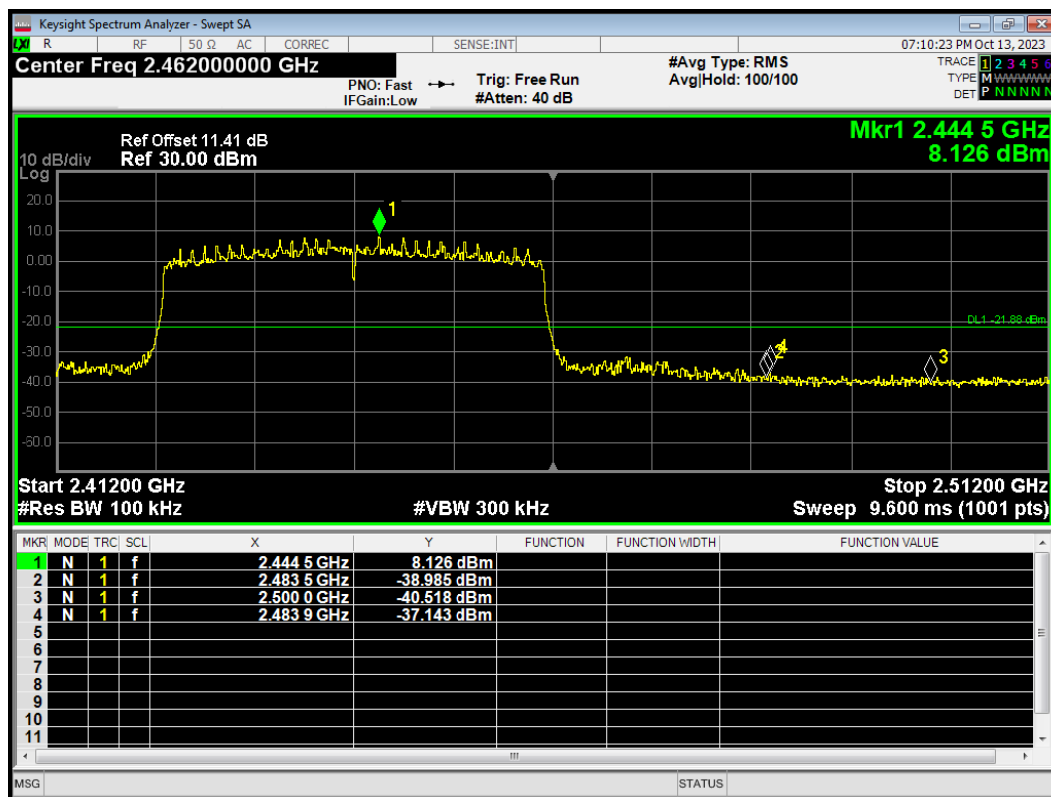
Band Edge 802.11ax(HE40) 2432MHz Emission



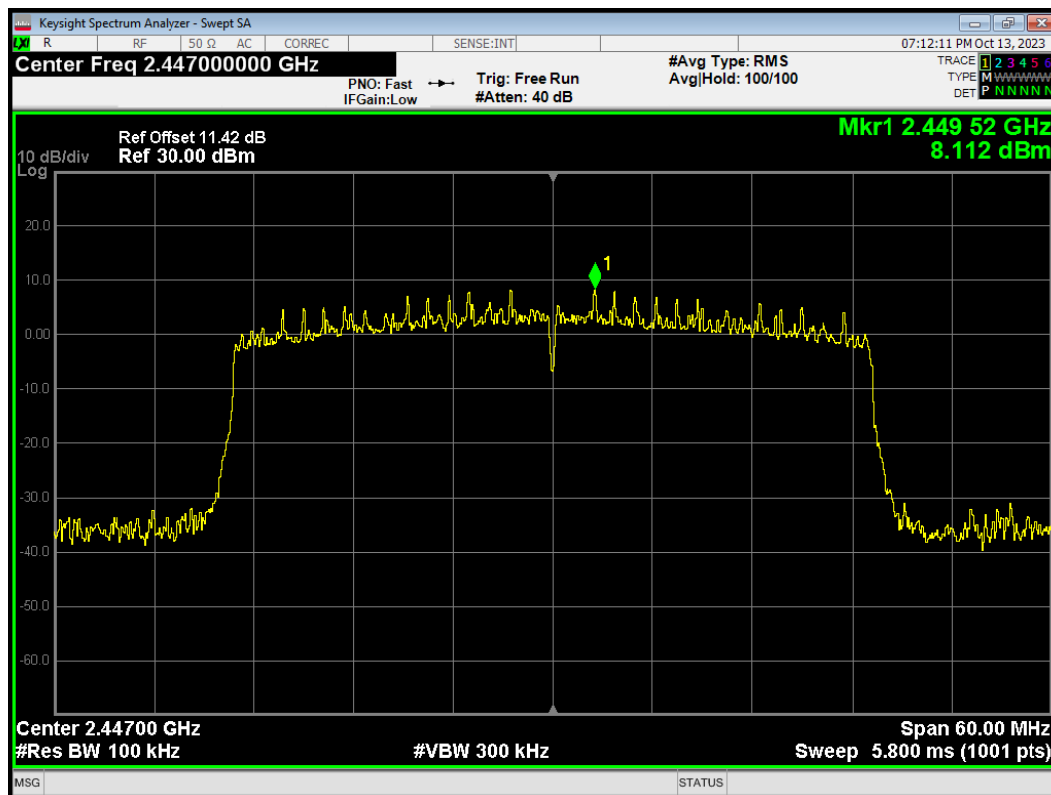
Band Edge 802.11ax(HE40) 2442MHz Ref



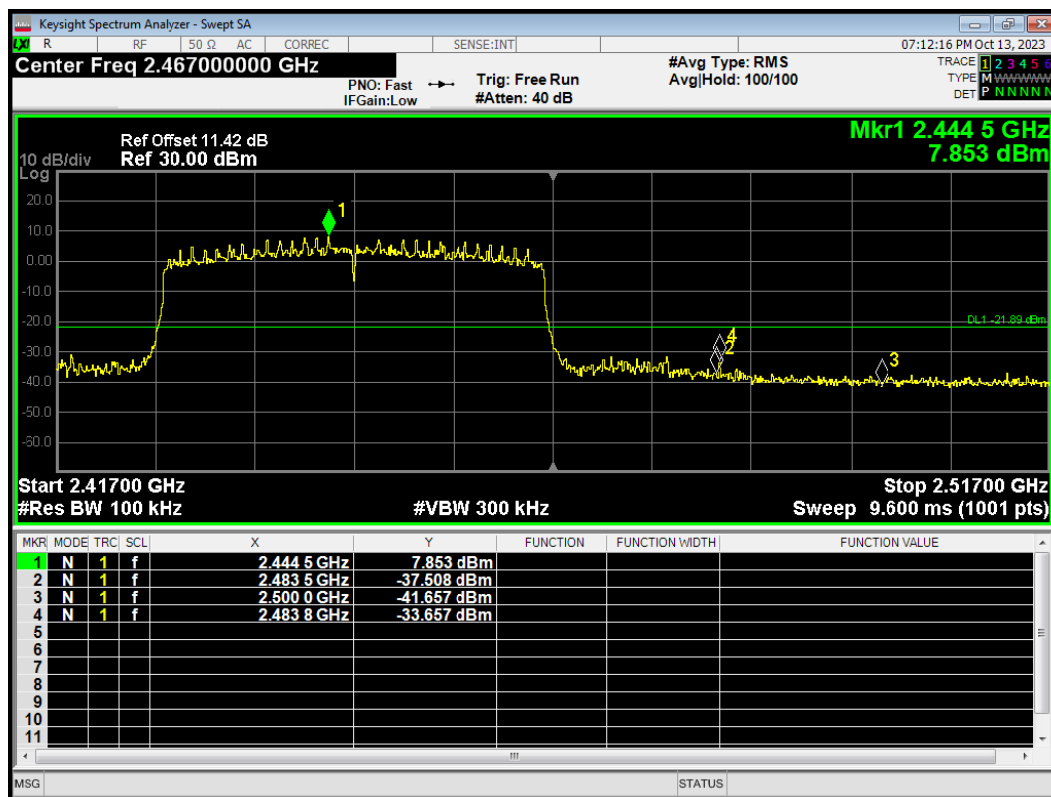
Band Edge 802.11ax(HE40) 2442MHz Emission



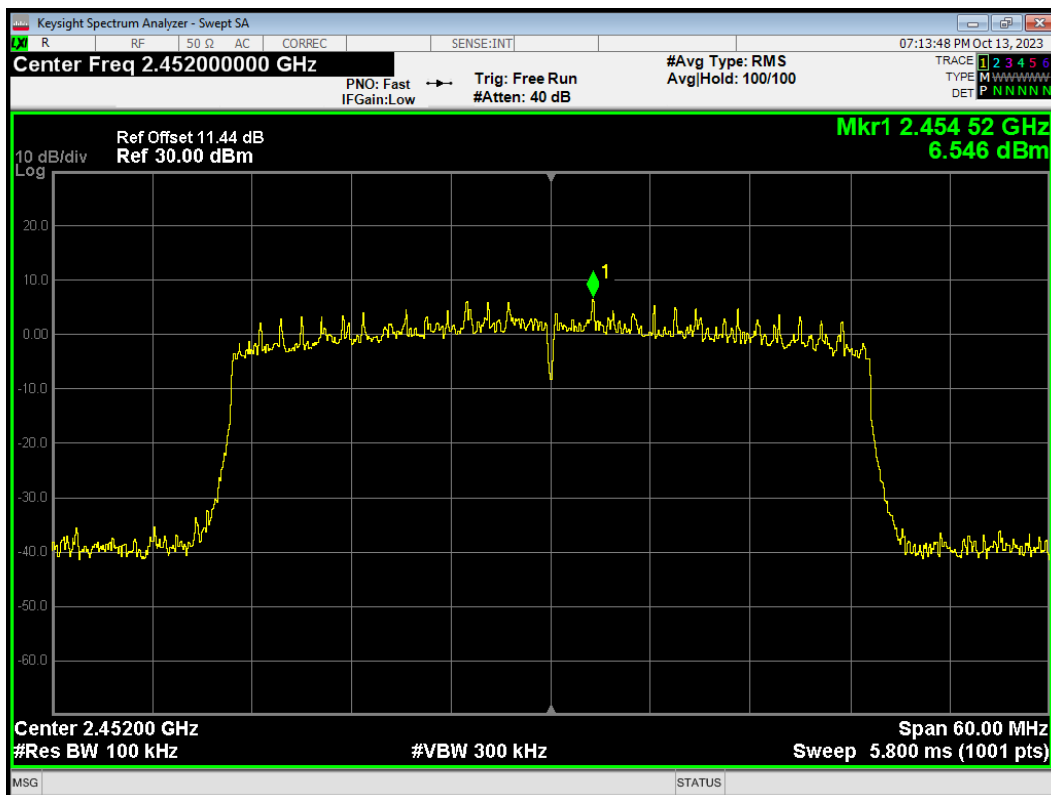
Band Edge 802.11ax(HE40) 2447MHz Ref



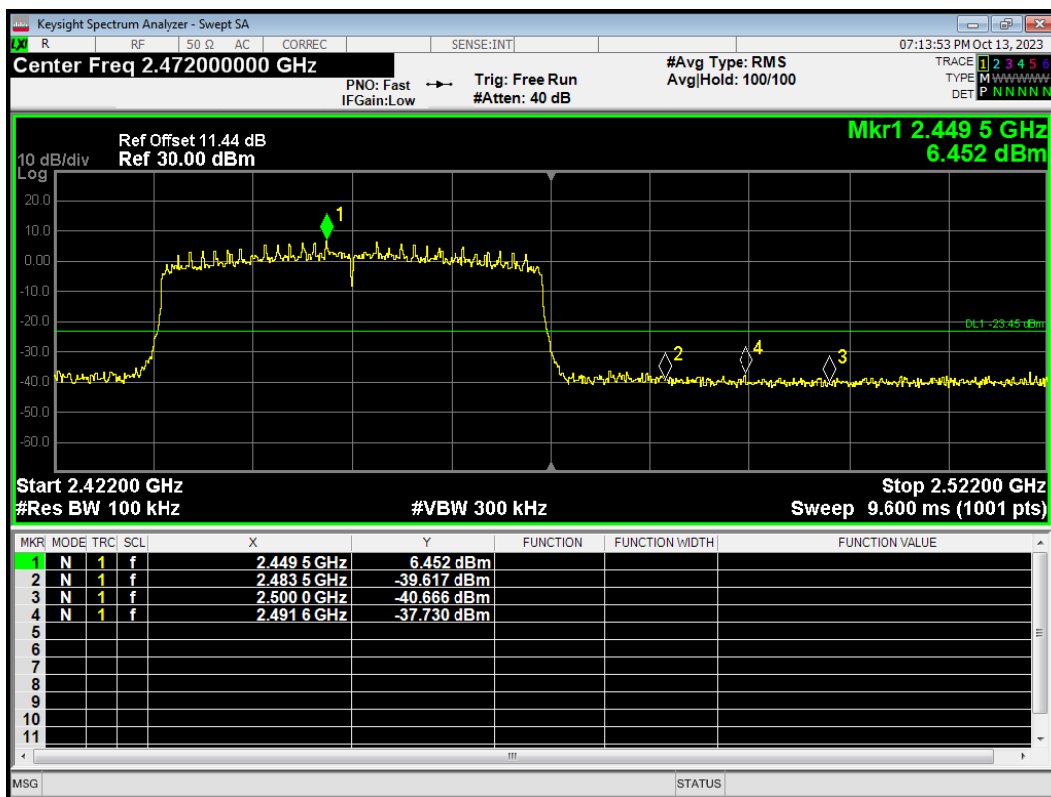
Band Edge 802.11ax(HE40) 2447MHz Emission



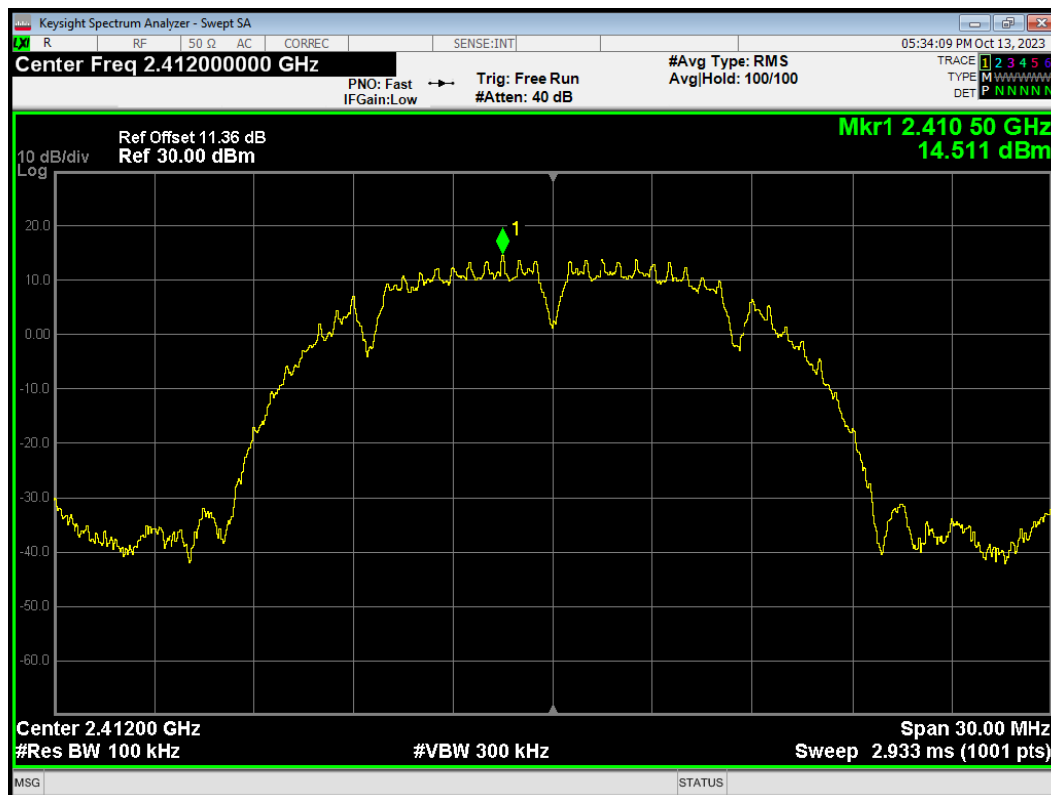
Band Edge 802.11ax(HE40) 2452MHz Ref



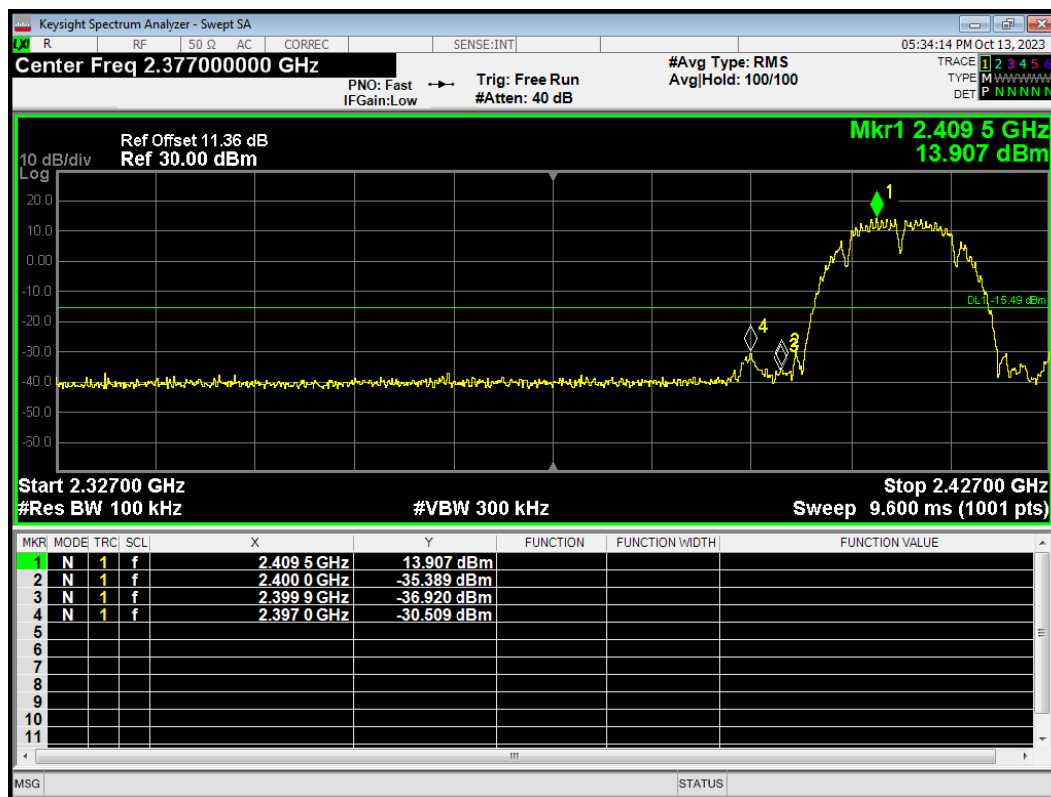
Band Edge 802.11ax(HE40) 2452MHz Emission



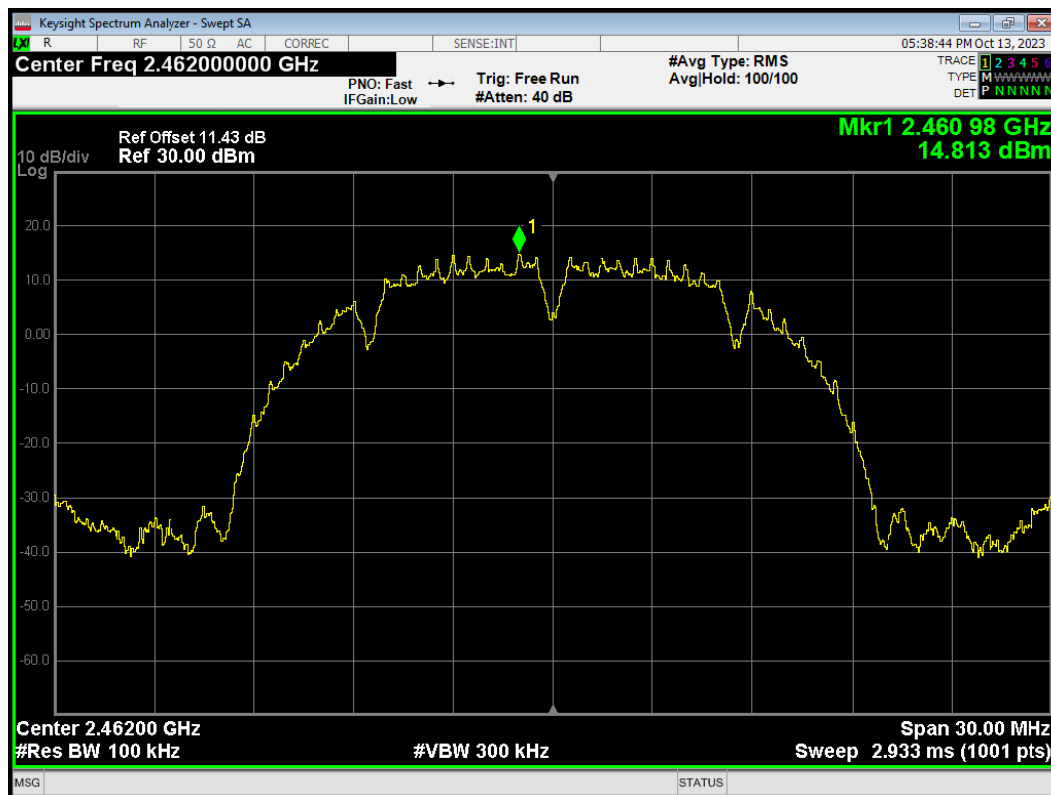
Band Edge 802.11b 2412MHz Ref



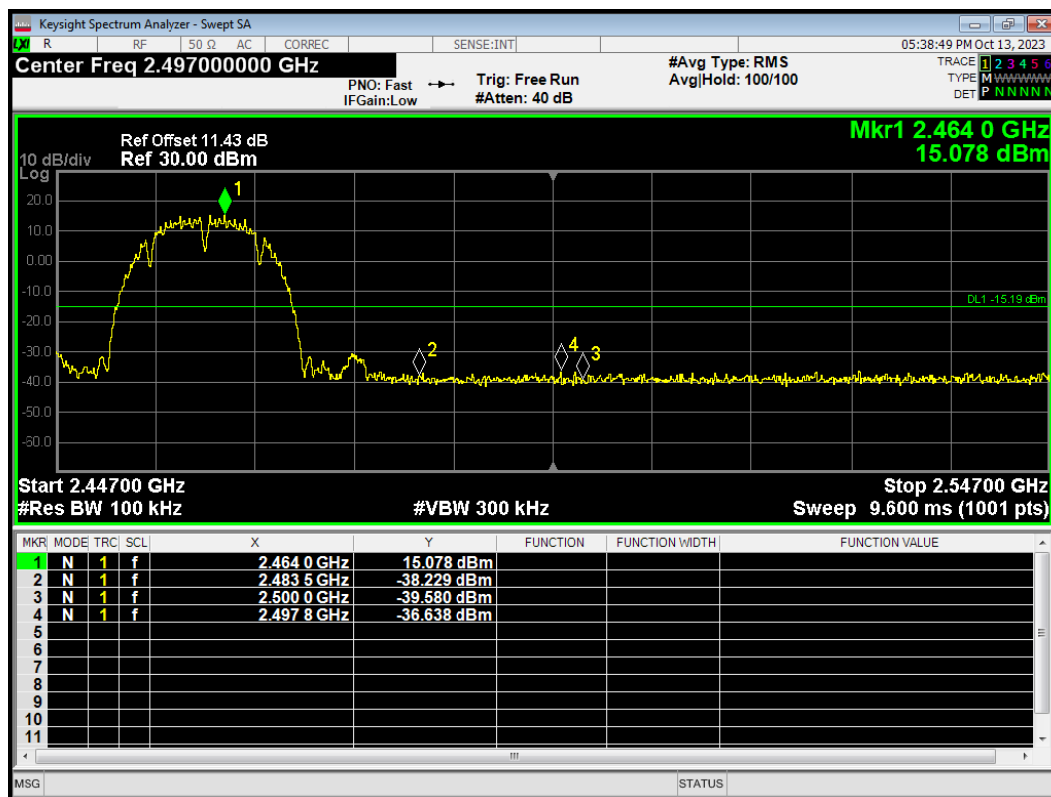
Band Edge 802.11b 2412MHz Emission



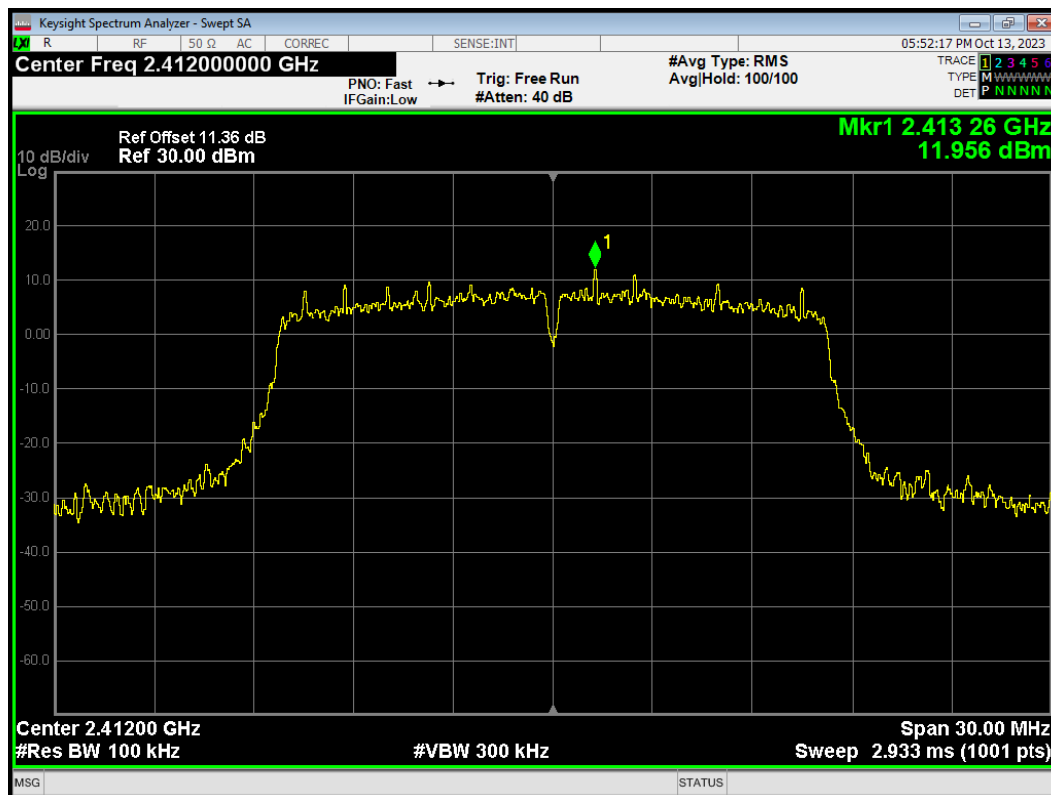
Band Edge 802.11b 2462MHz Ref



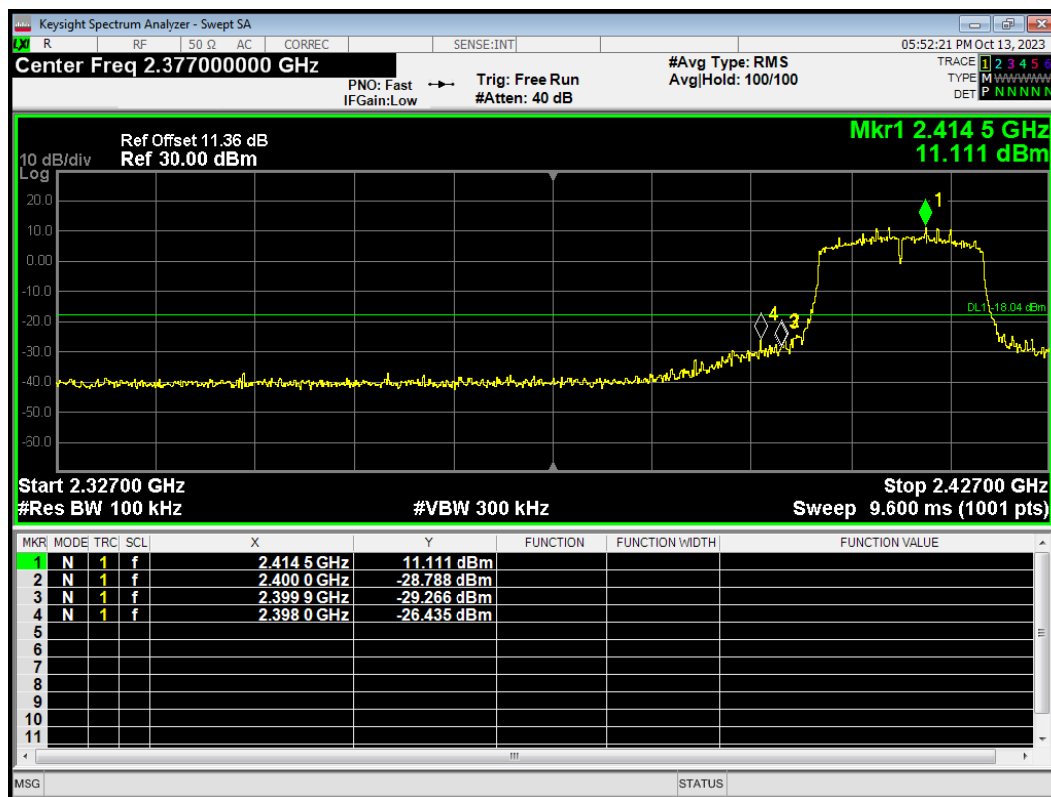
Band Edge 802.11b 2462MHz Emission



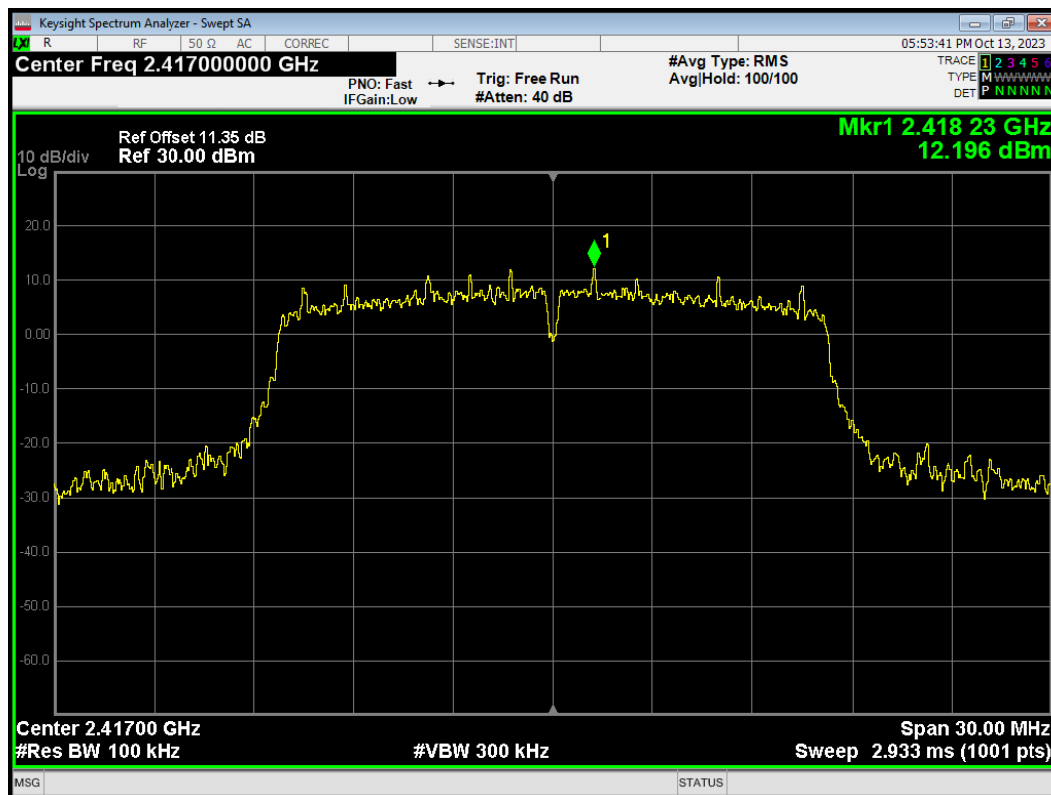
Band Edge 802.11g 2412MHz Ref



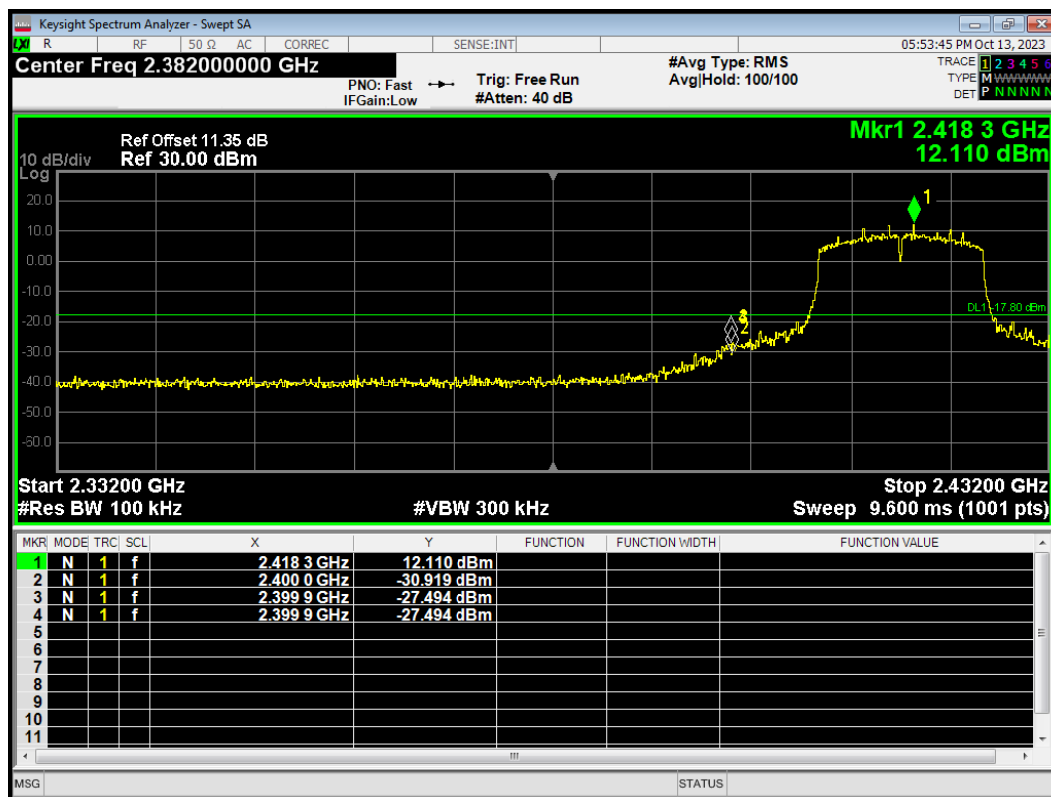
Band Edge 802.11g 2412MHz Emission



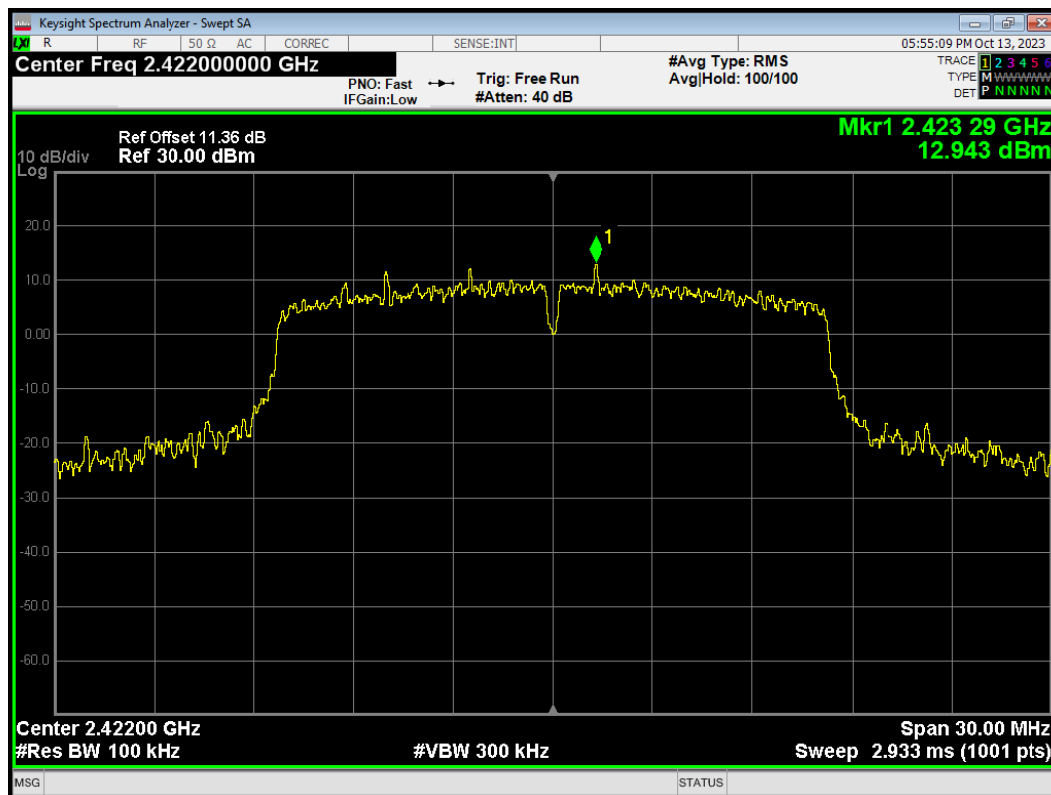
Band Edge 802.11g 2417MHz Ref



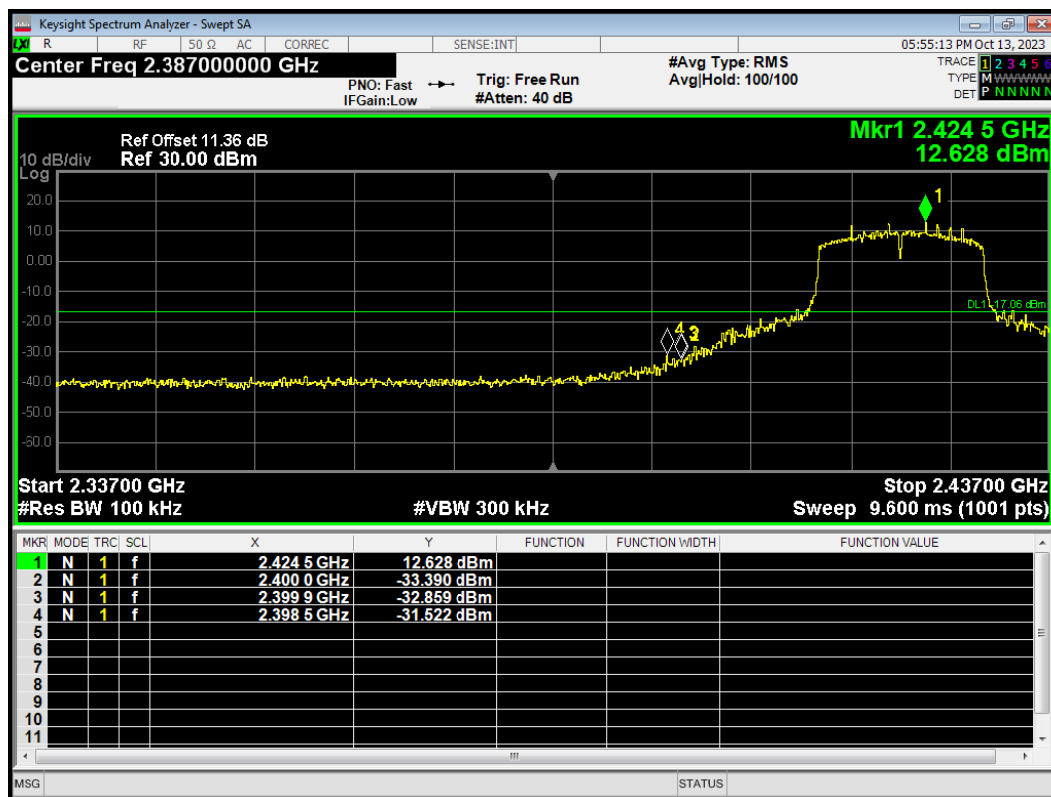
Band Edge 802.11g 2417MHz Emission



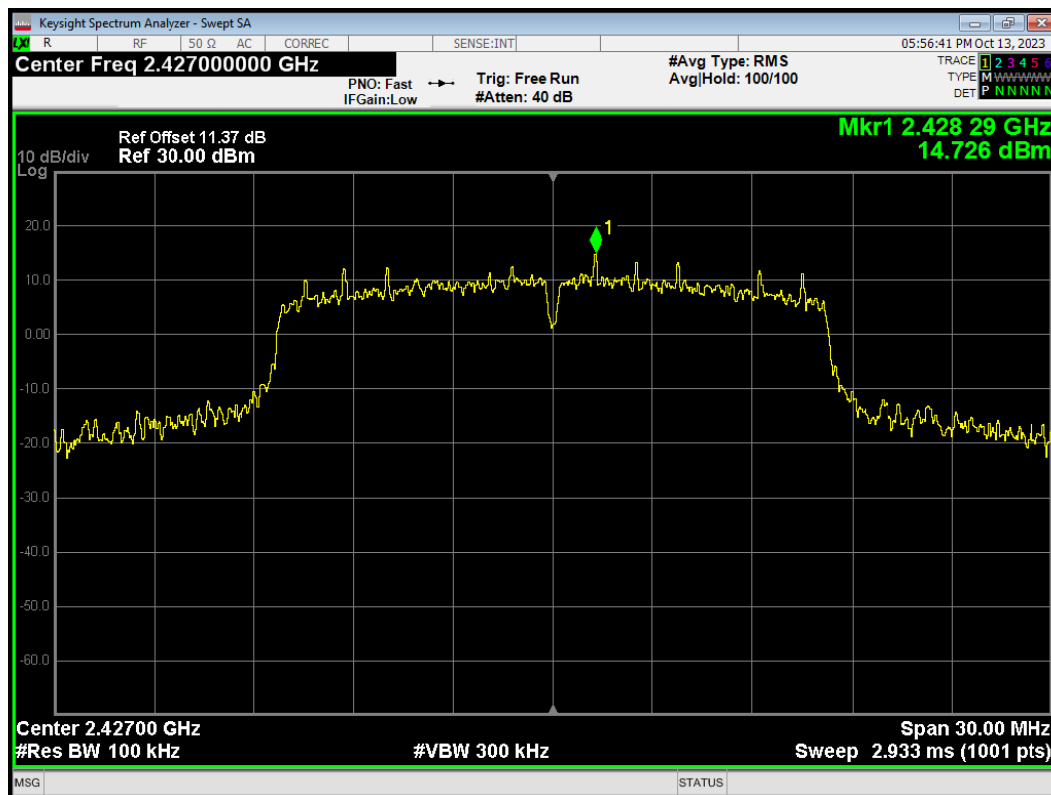
Band Edge 802.11g 2422MHz Ref



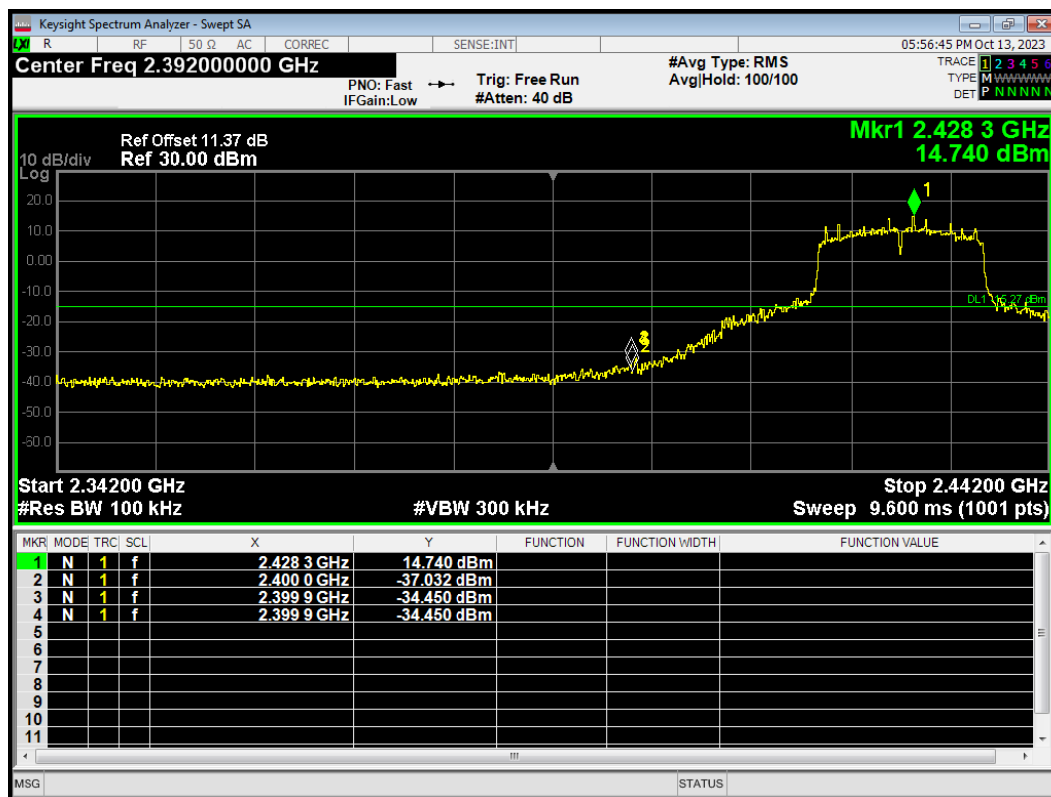
Band Edge 802.11g 2422MHz Emission



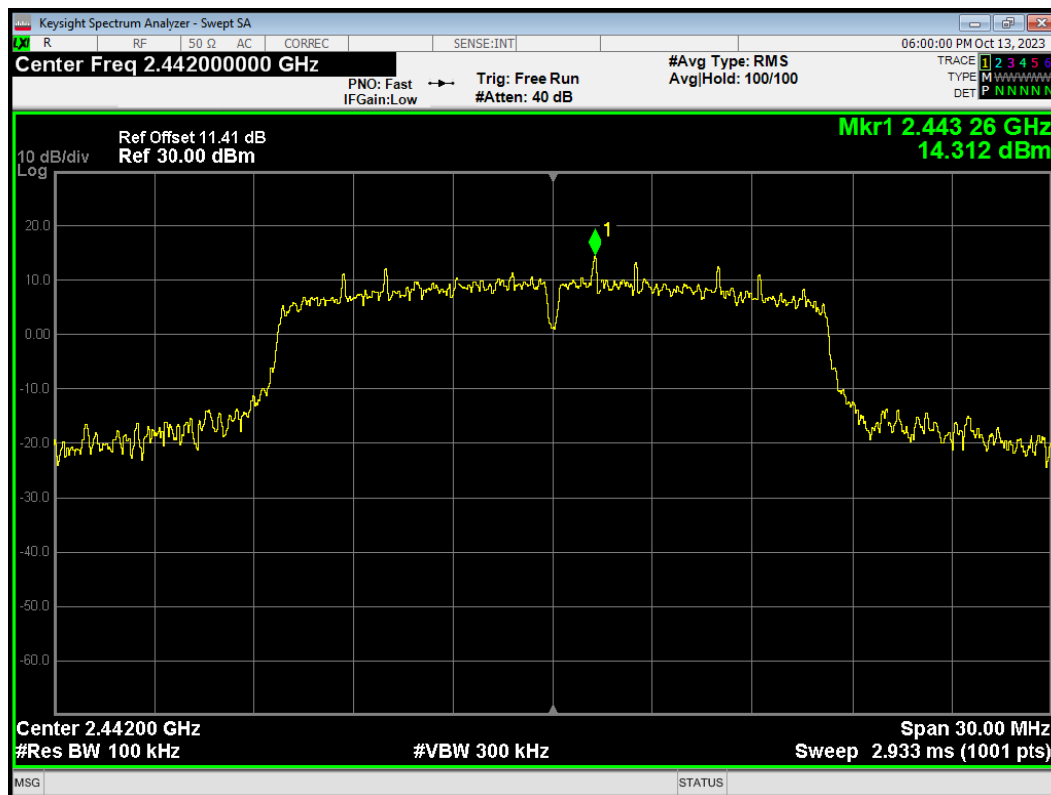
Band Edge 802.11g 2427MHz Ref



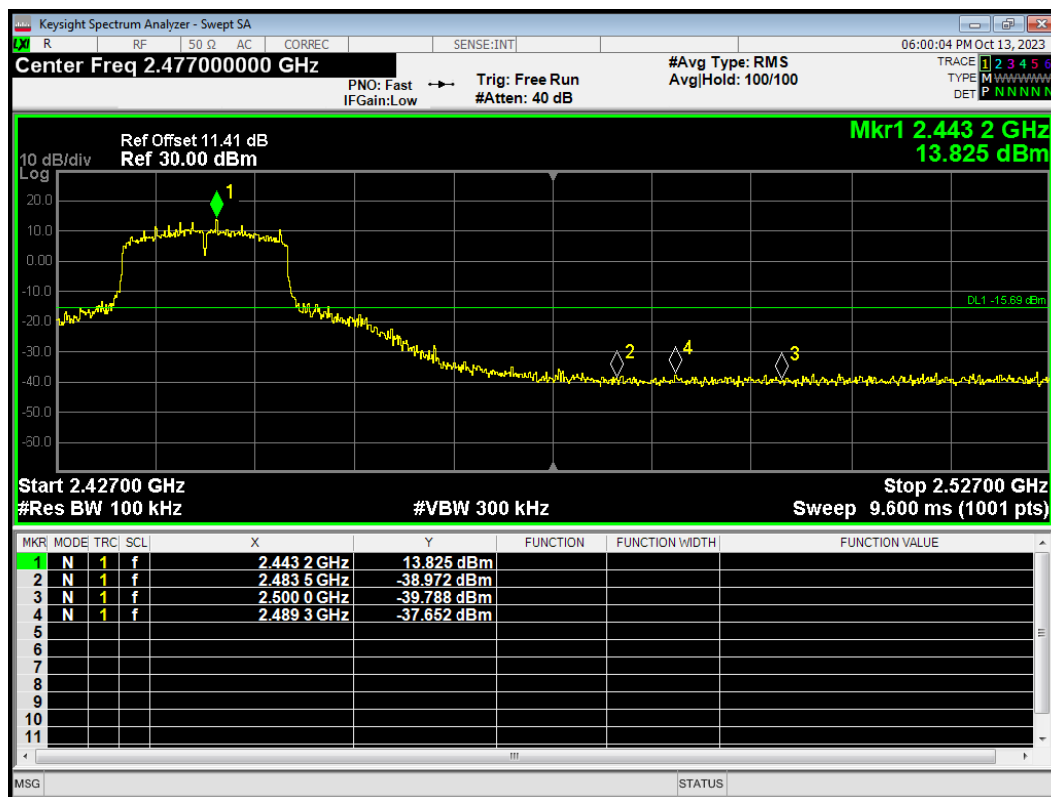
Band Edge 802.11g 2427MHz Emission



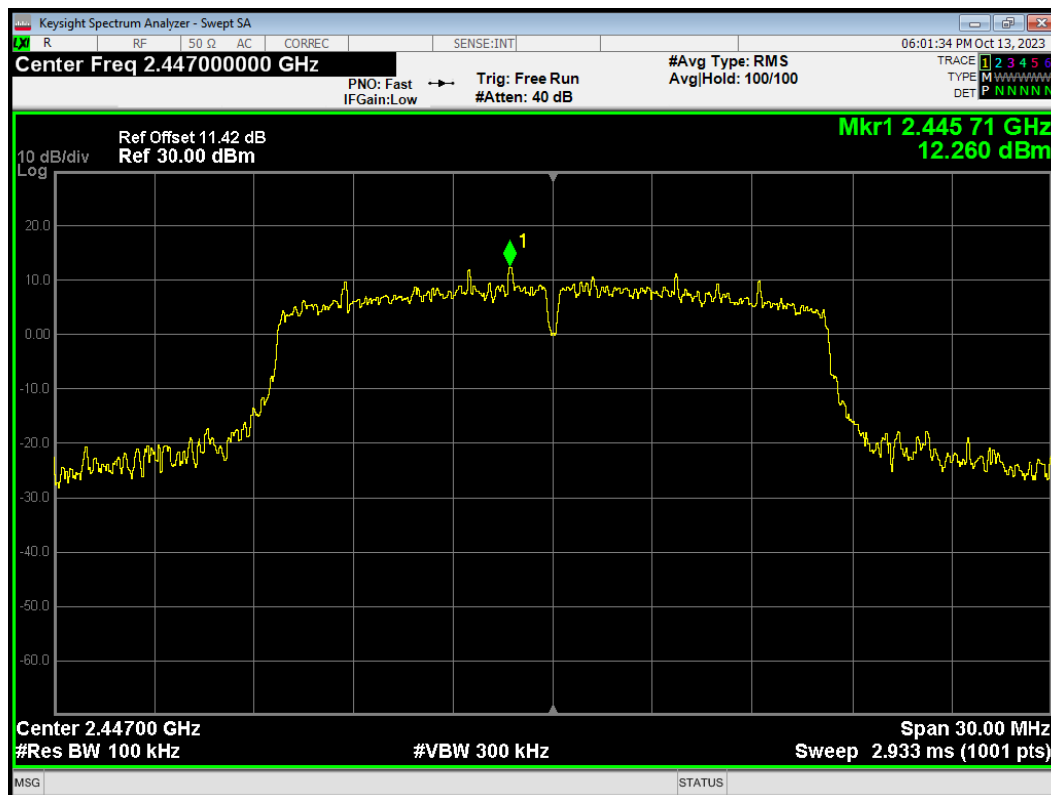
Band Edge 802.11g 2442MHz Ref



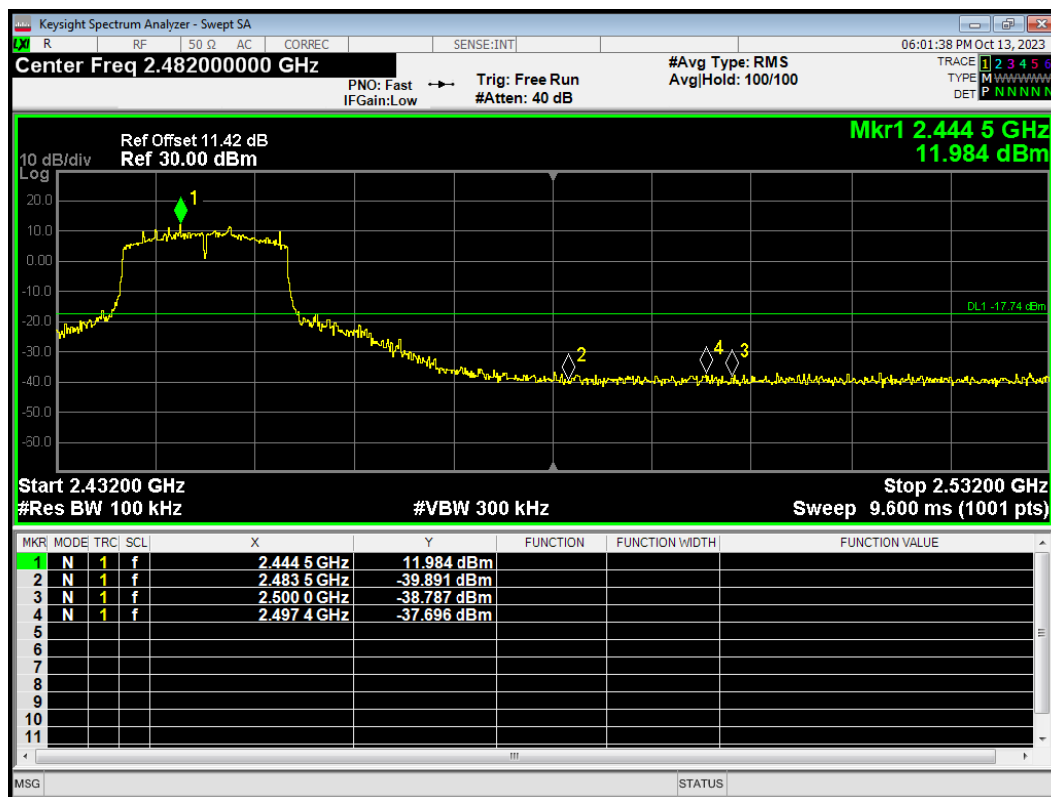
Band Edge 802.11g 2442MHz Emission



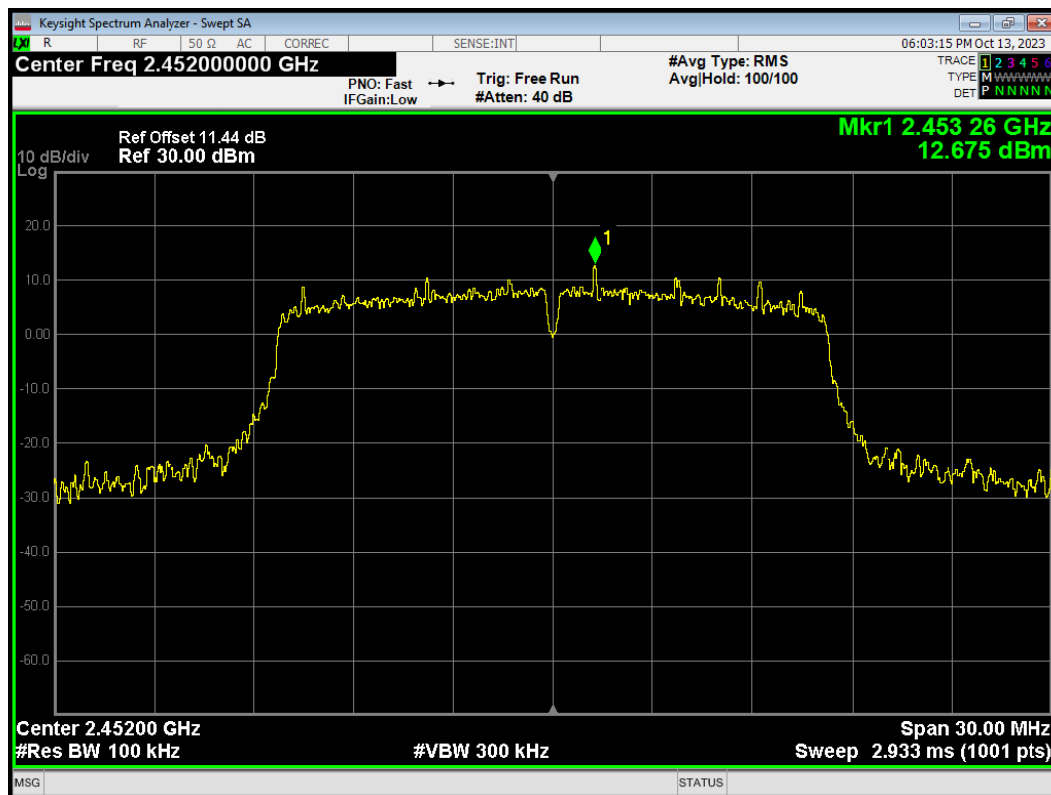
Band Edge 802.11g 2447MHz Ref



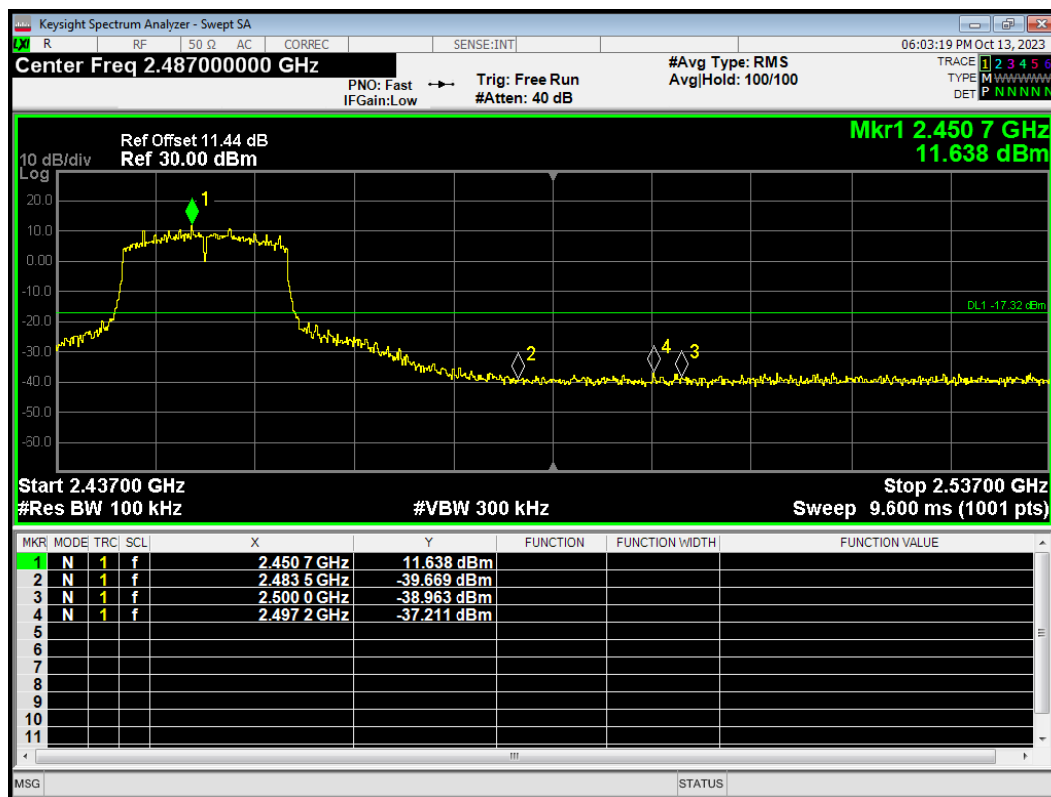
Band Edge 802.11g 2447MHz Emission



Band Edge 802.11g 2452MHz Ref



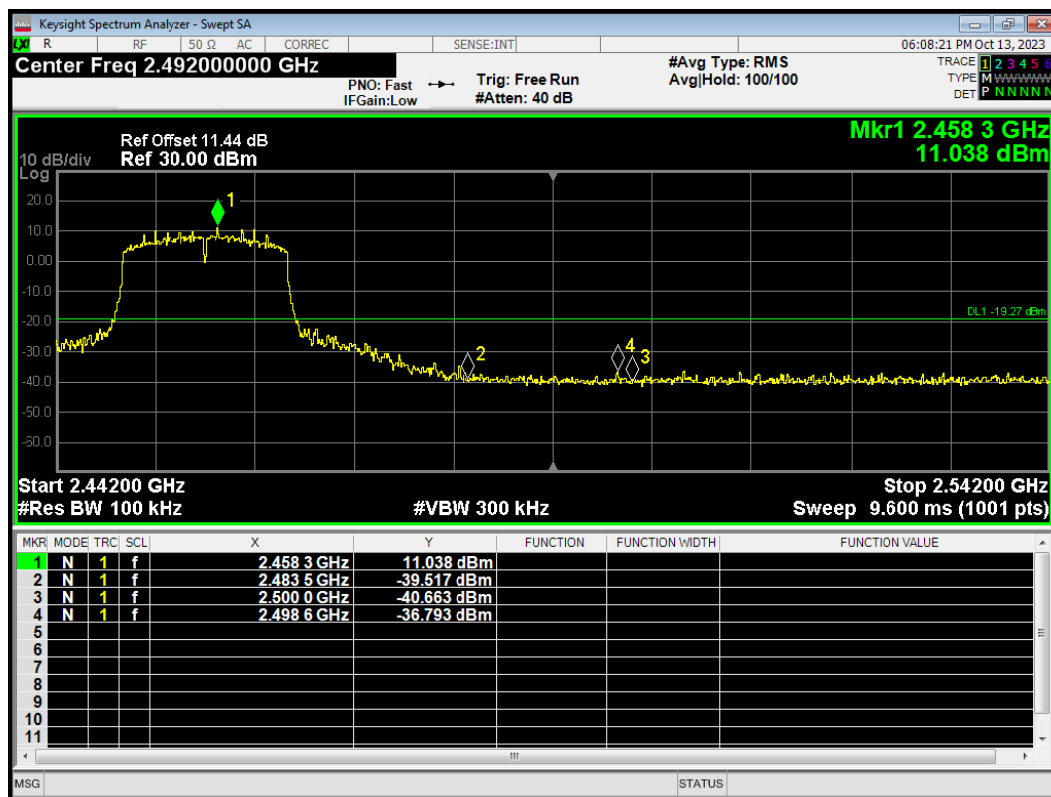
Band Edge 802.11g 2452MHz Emission



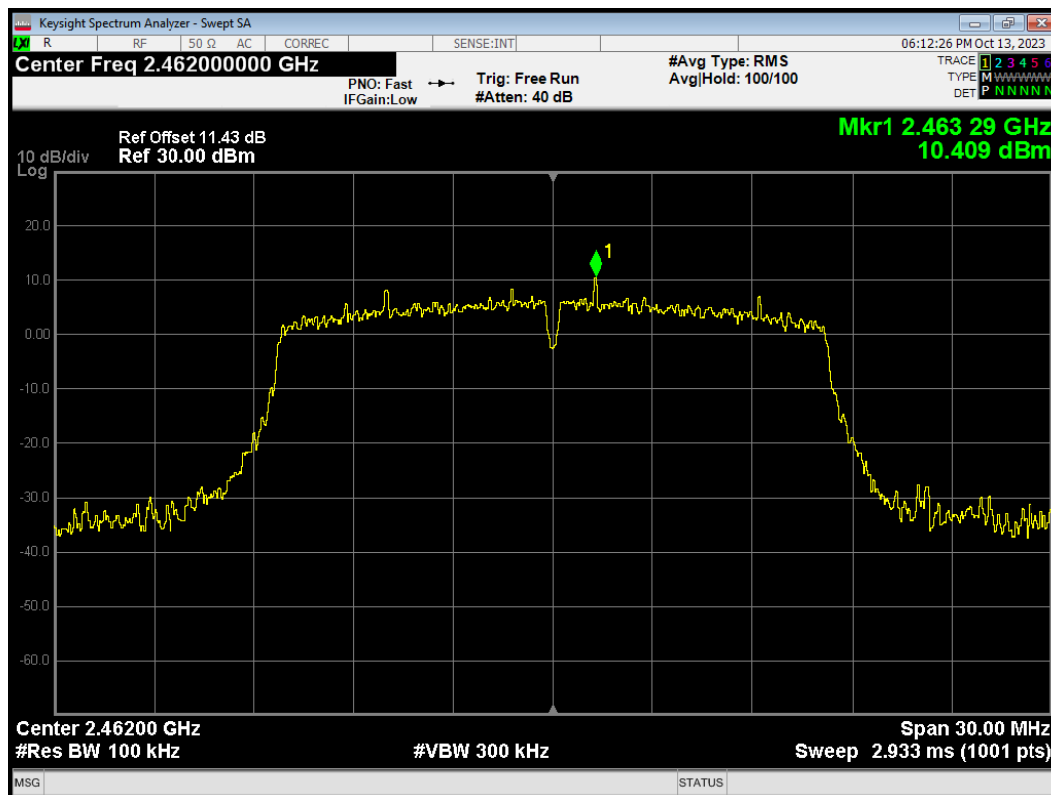
Band Edge 802.11g 2457MHz Ref



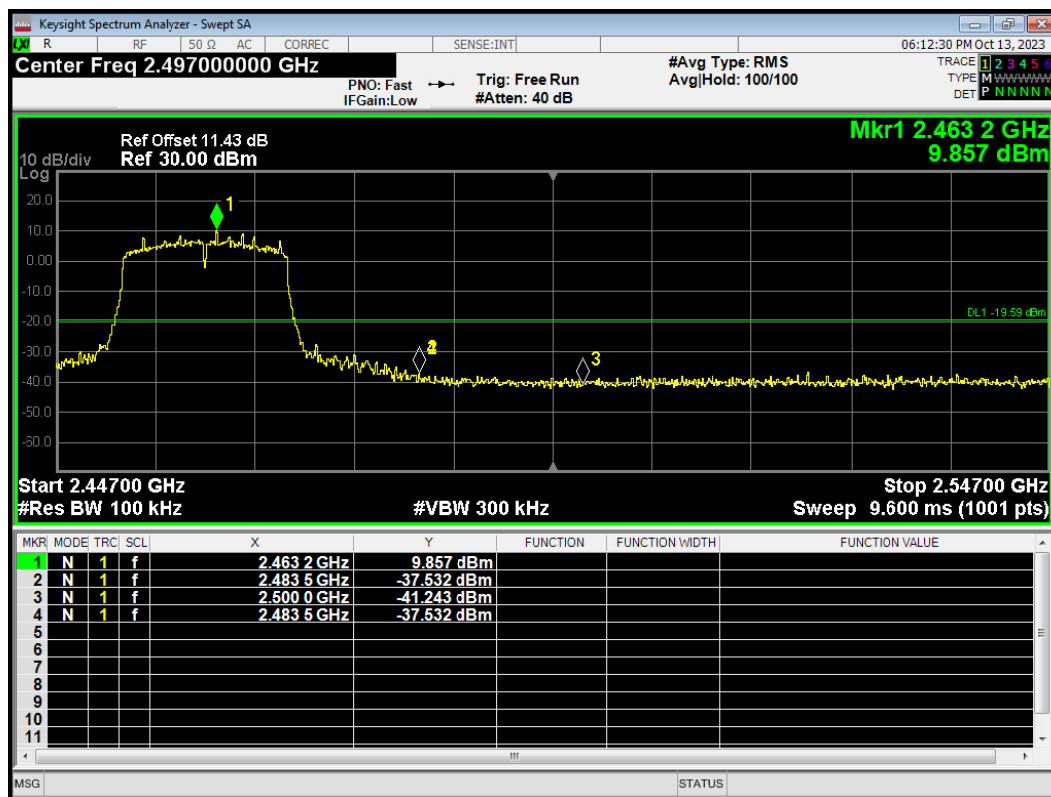
Band Edge 802.11g 2457MHz Emission



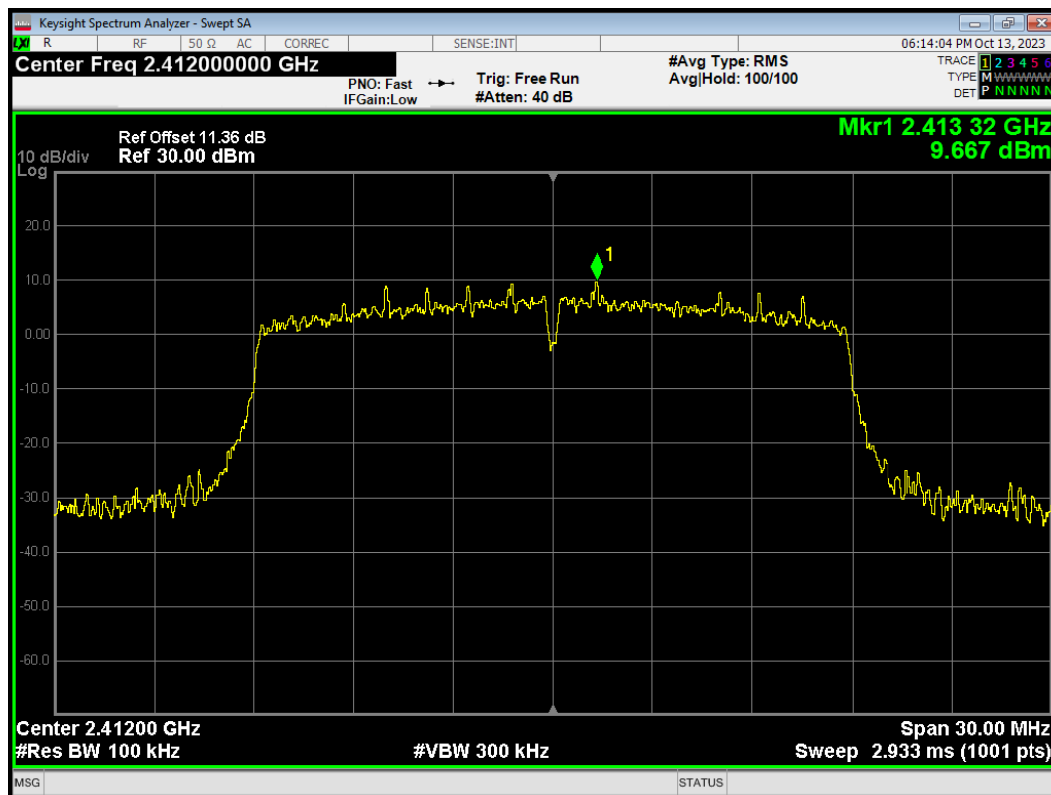
Band Edge 802.11g 2462MHz Ref



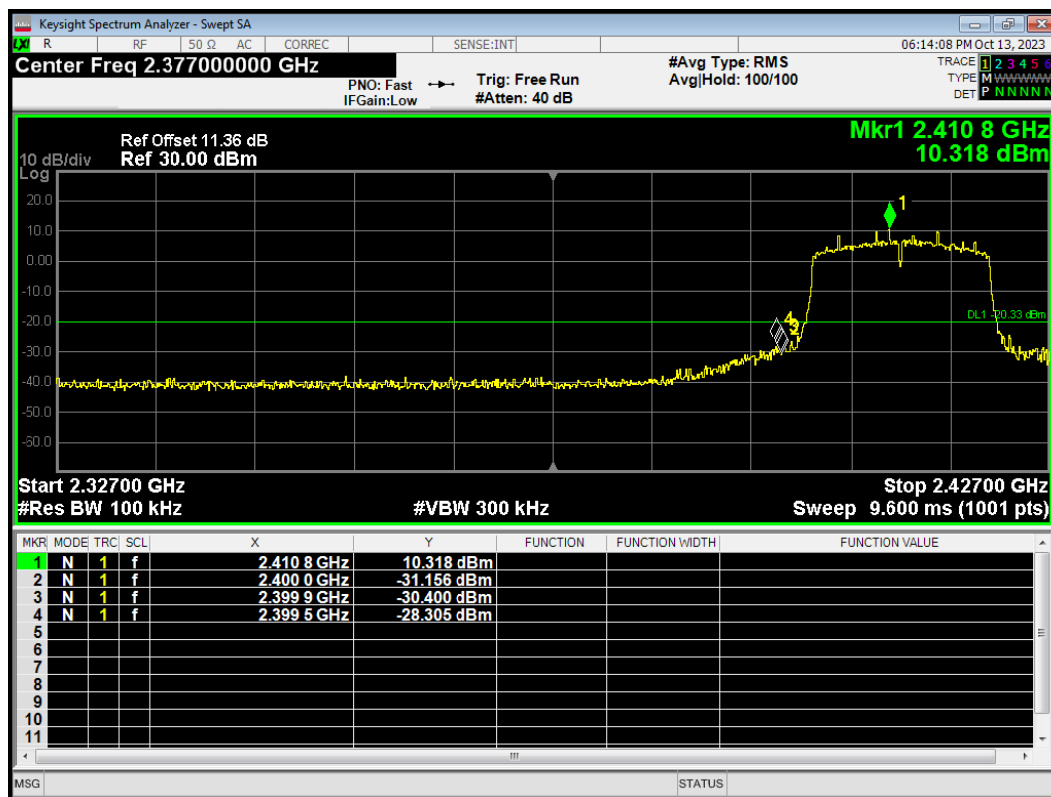
Band Edge 802.11g 2462MHz Emission



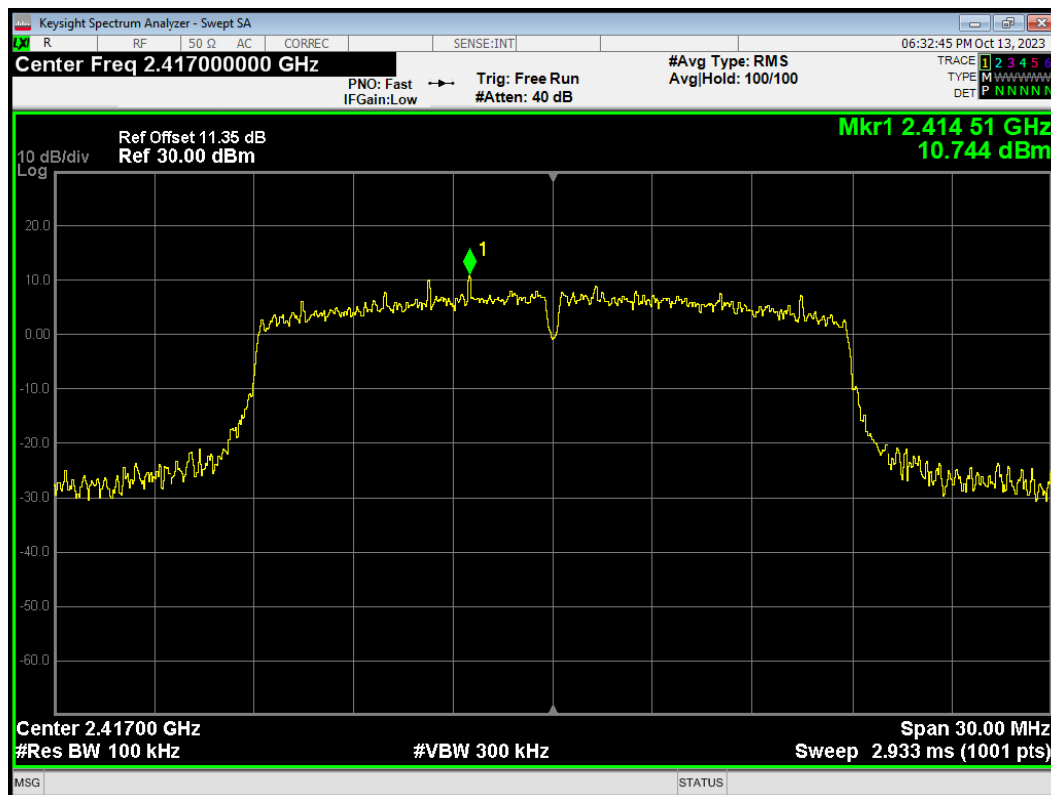
Band Edge 802.11n(HT20) 2412MHz Ref



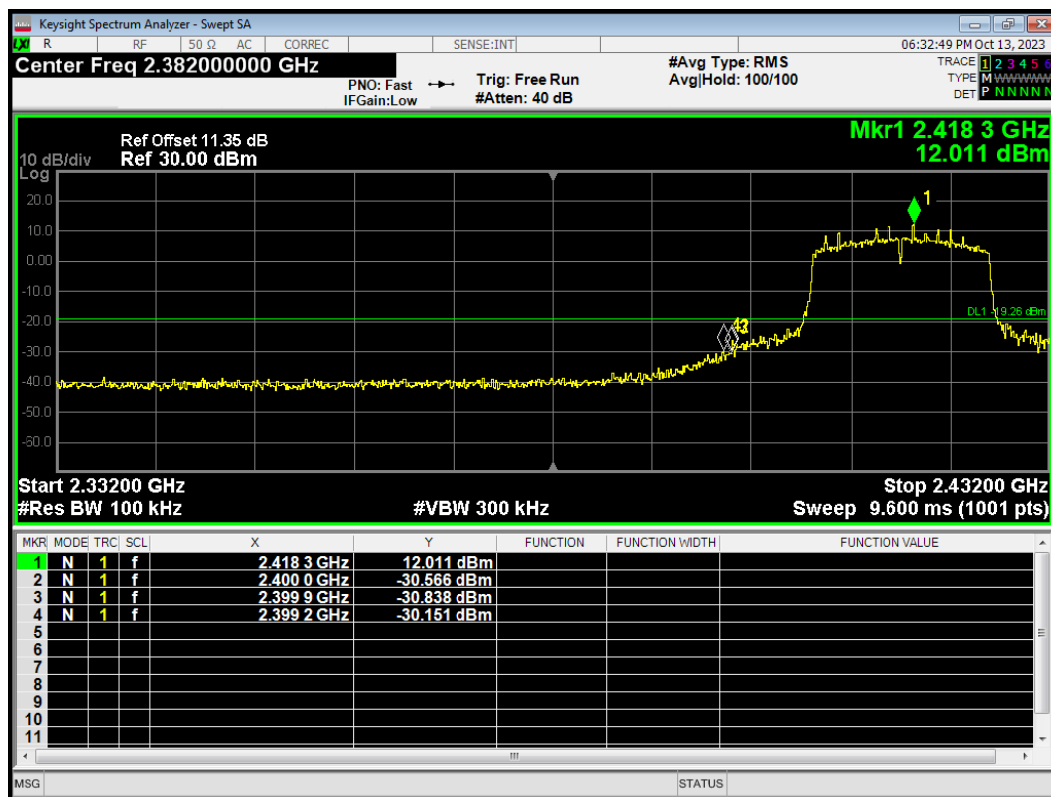
Band Edge 802.11n(HT20) 2412MHz Emission



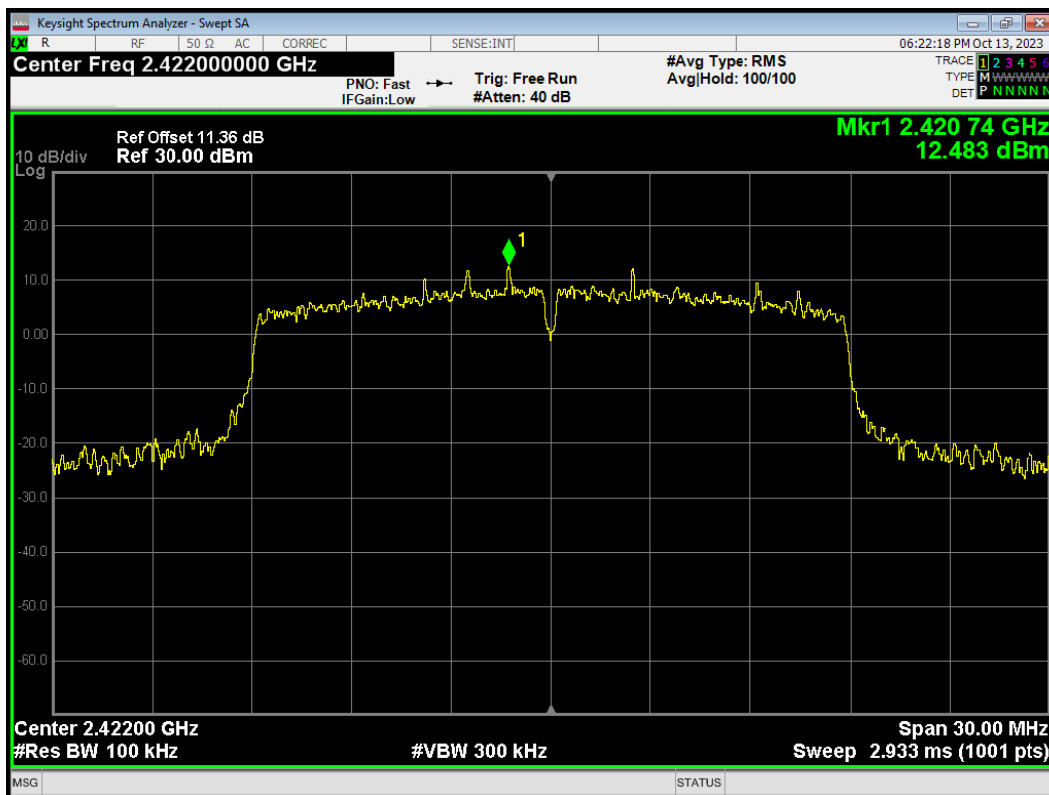
Band Edge 802.11n(HT20) 2417MHz Ref



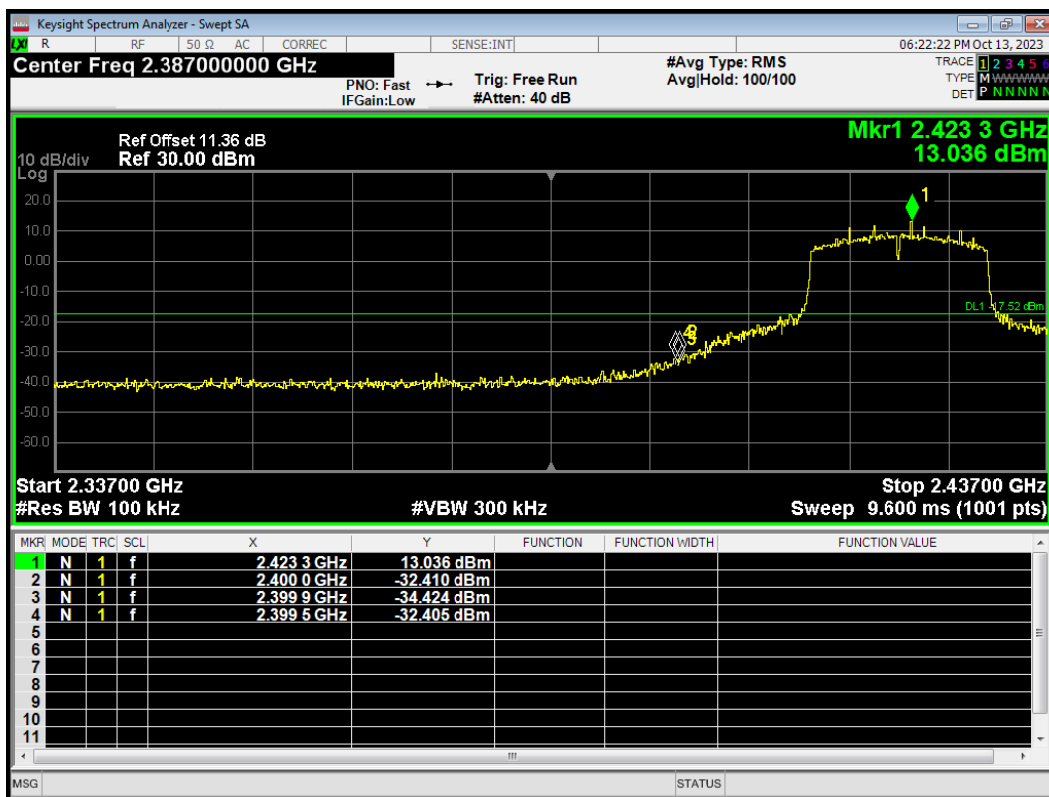
Band Edge 802.11n(HT20) 2417MHz Emission



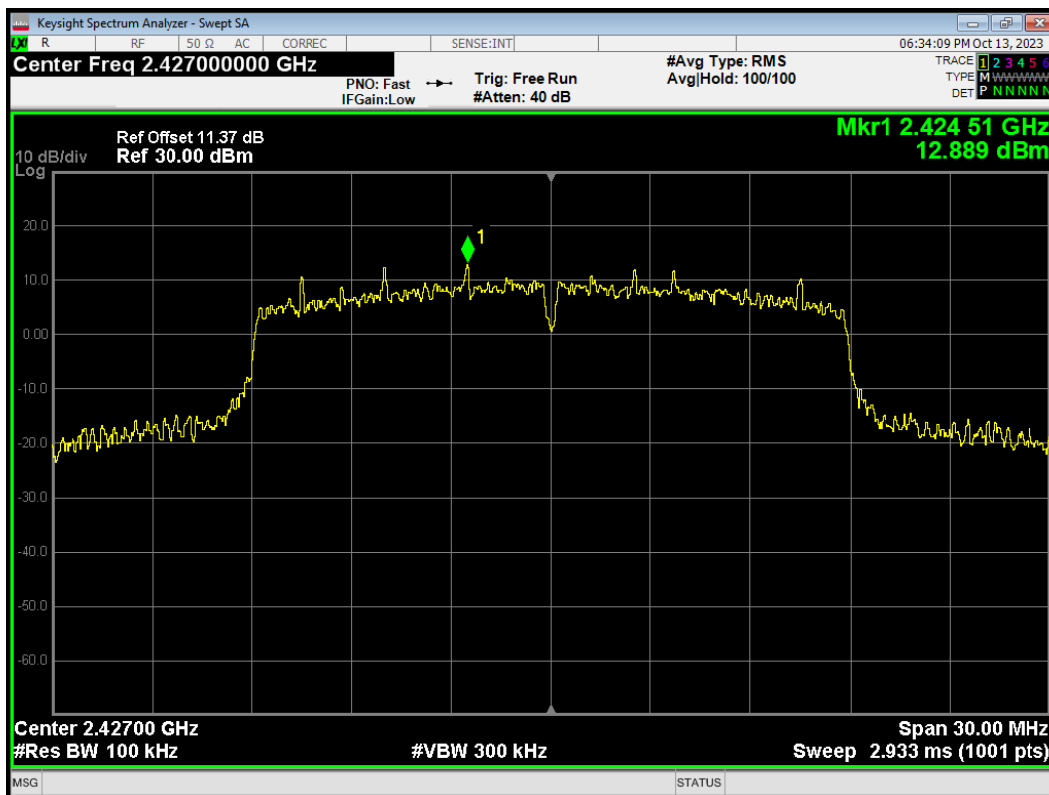
Band Edge 802.11n(HT20) 2422MHz Ref



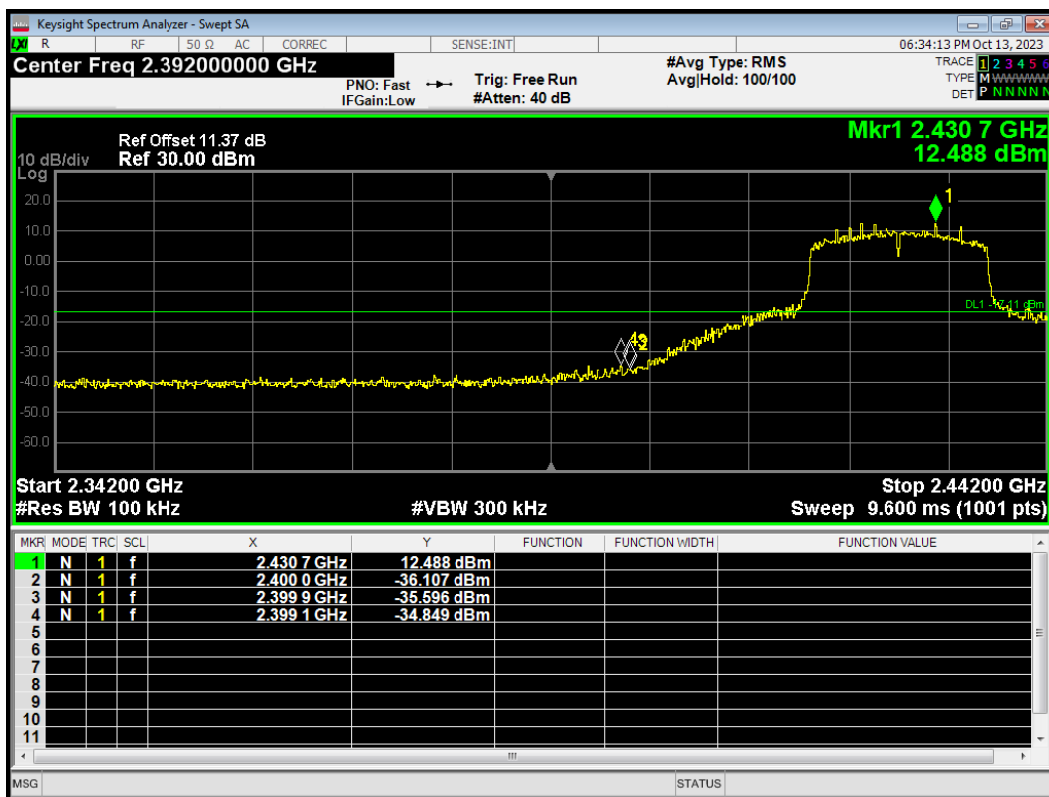
Band Edge 802.11n(HT20) 2422MHz Emission



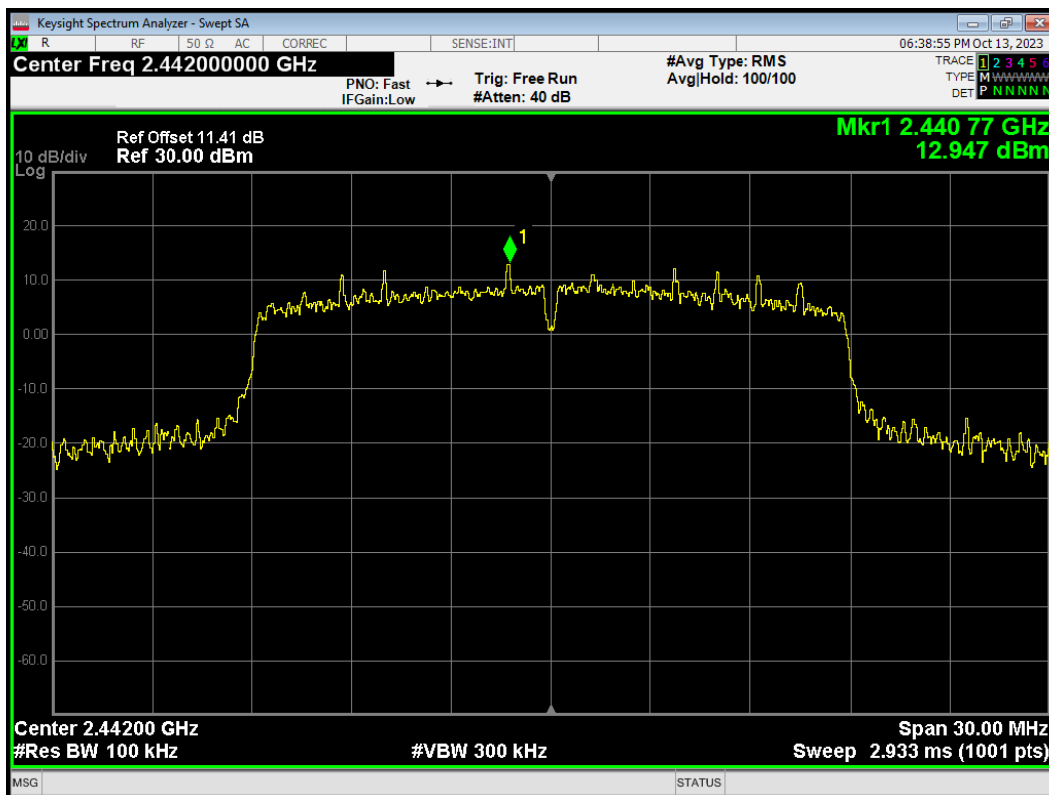
Band Edge 802.11n(HT20) 2427MHz Ref



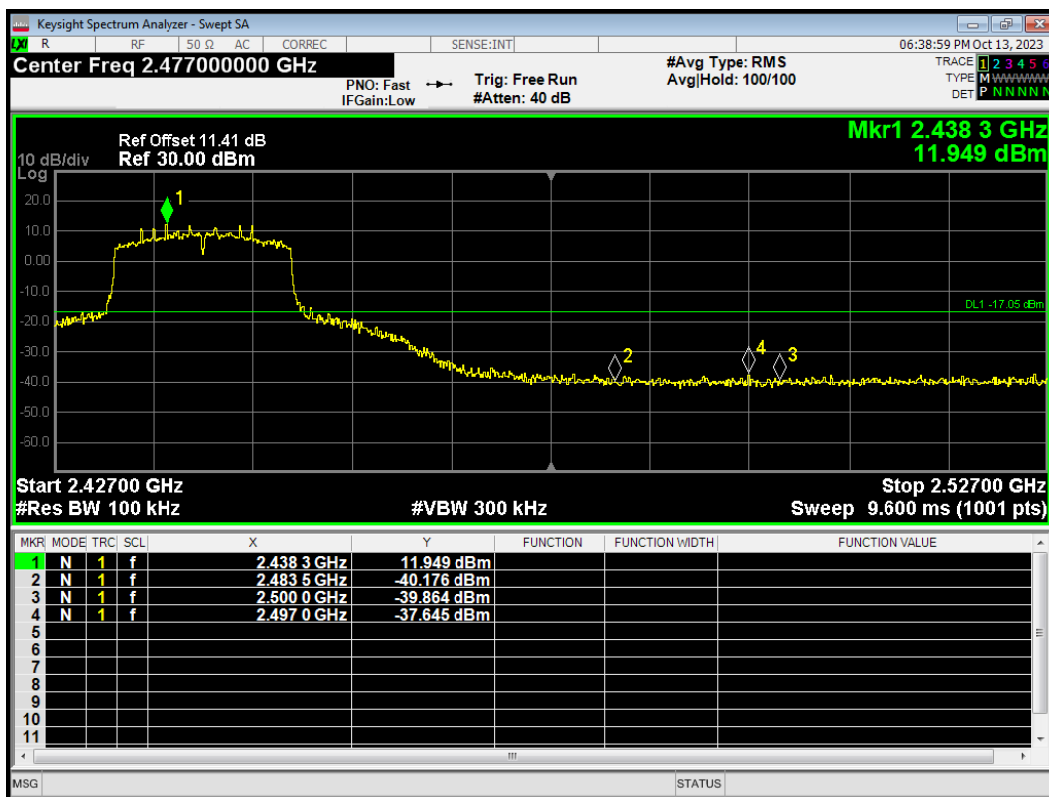
Band Edge 802.11n(HT20) 2427MHz Emission



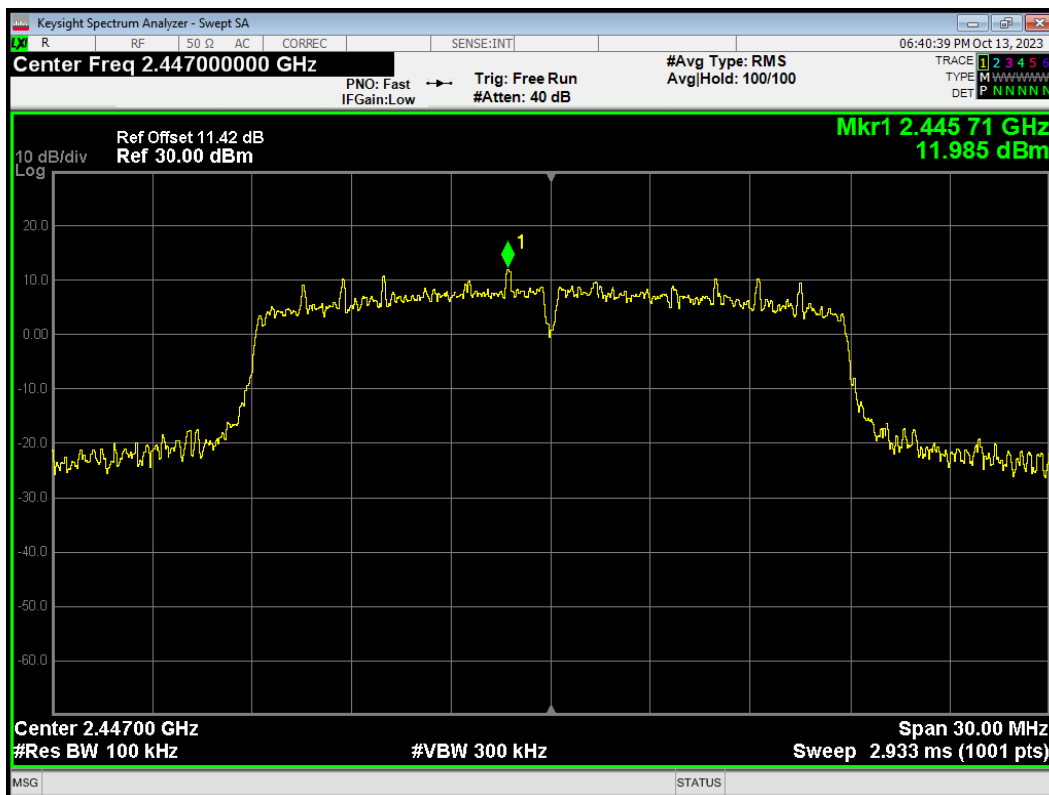
Band Edge 802.11n(HT20) 2442MHz Ref



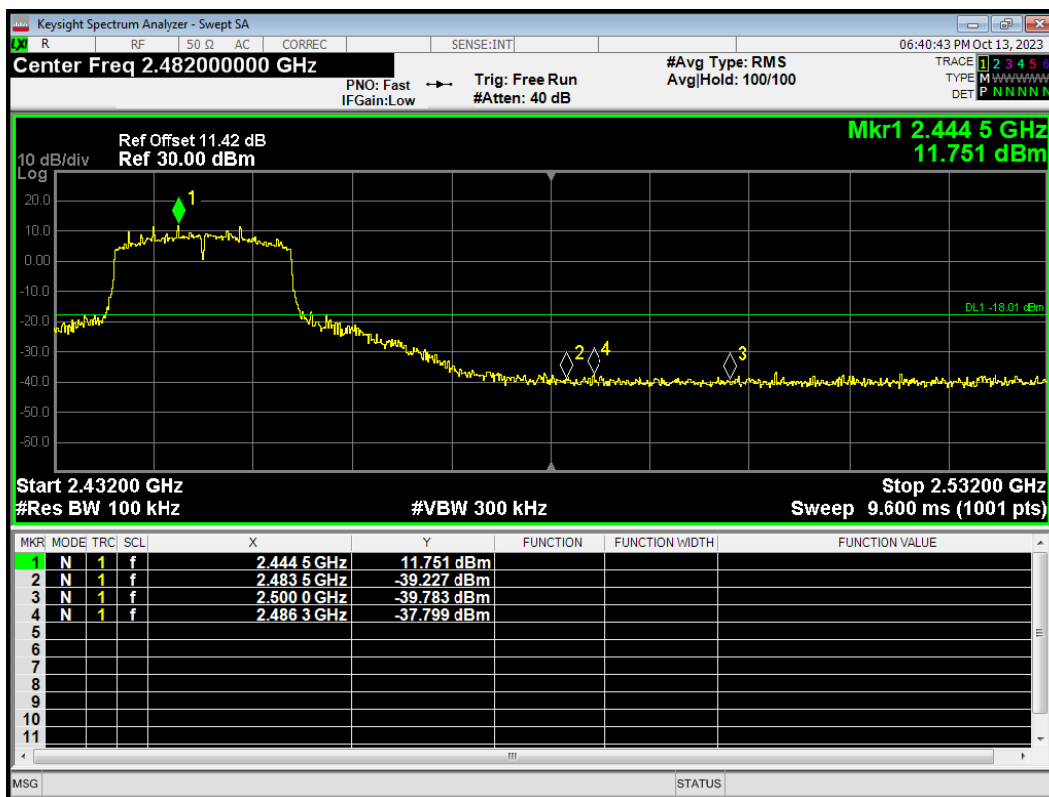
Band Edge 802.11n(HT20) 2442MHz Emission



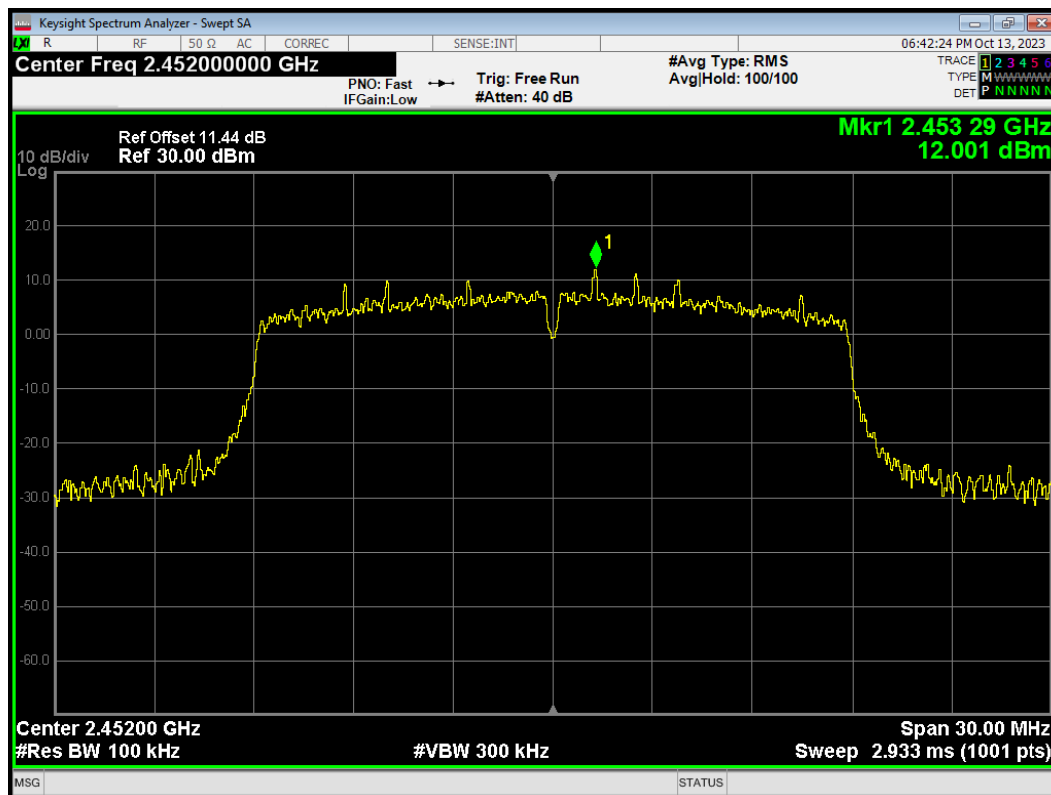
Band Edge 802.11n(HT20) 2447MHz Ref



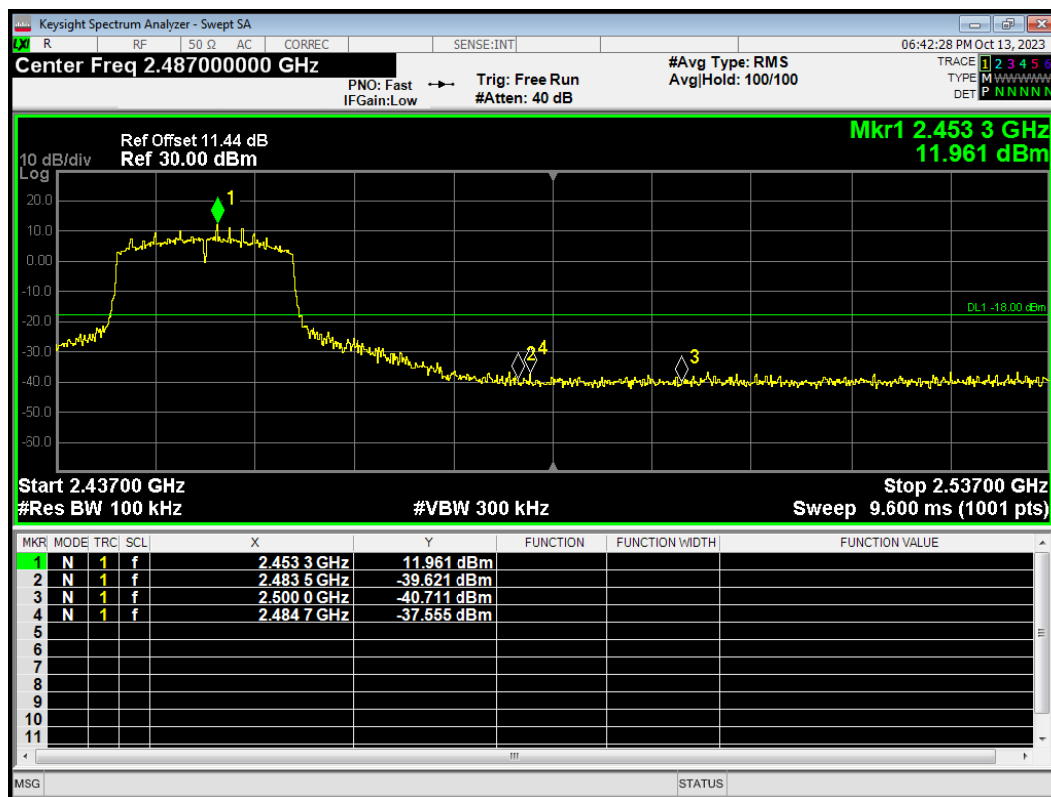
Band Edge 802.11n(HT20) 2447MHz Emission



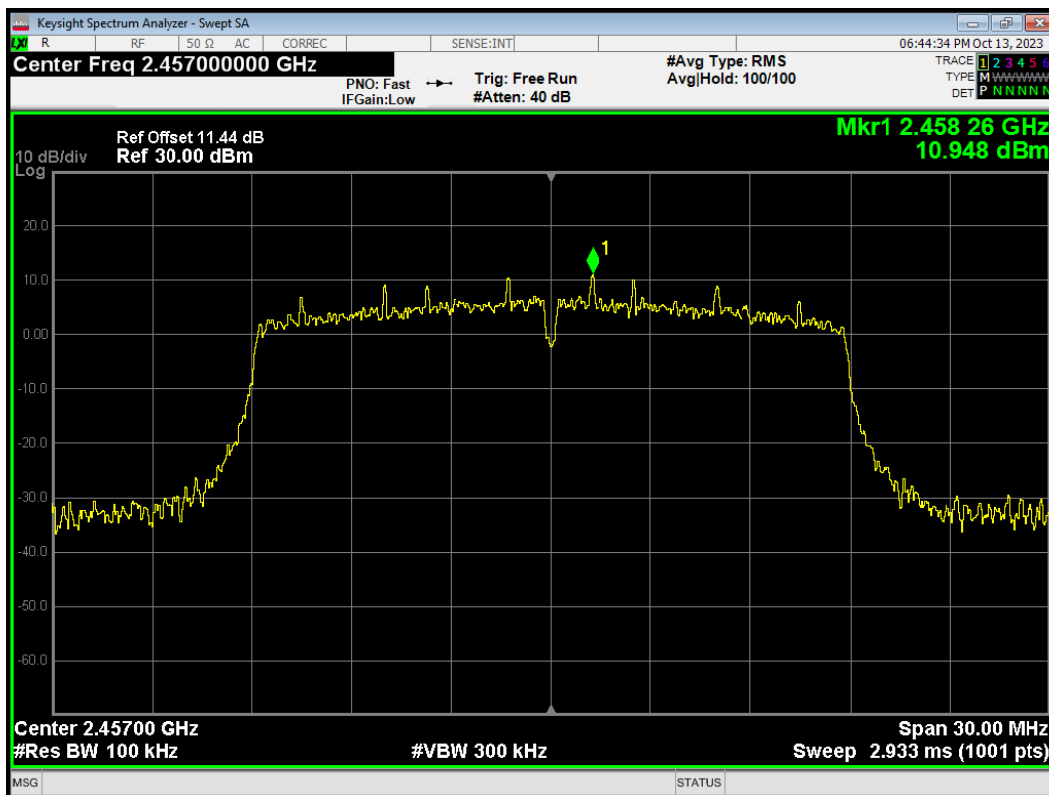
Band Edge 802.11n(HT20) 2452MHz Ref



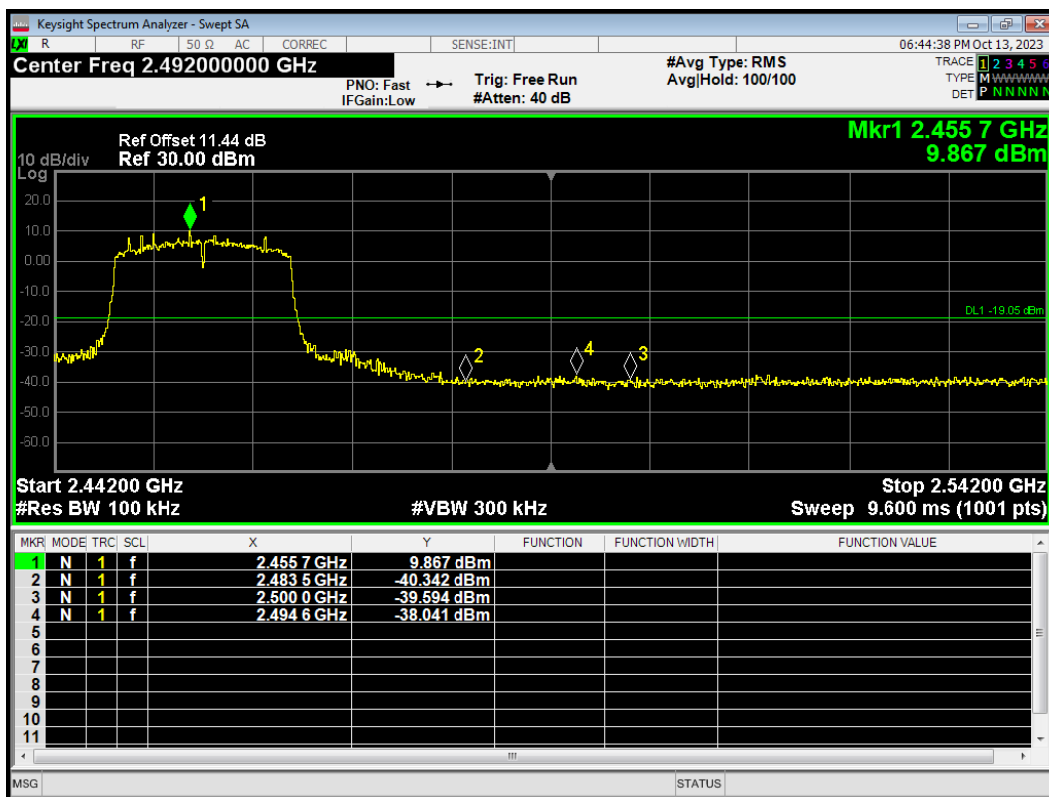
Band Edge 802.11n(HT20) 2452MHz Emission



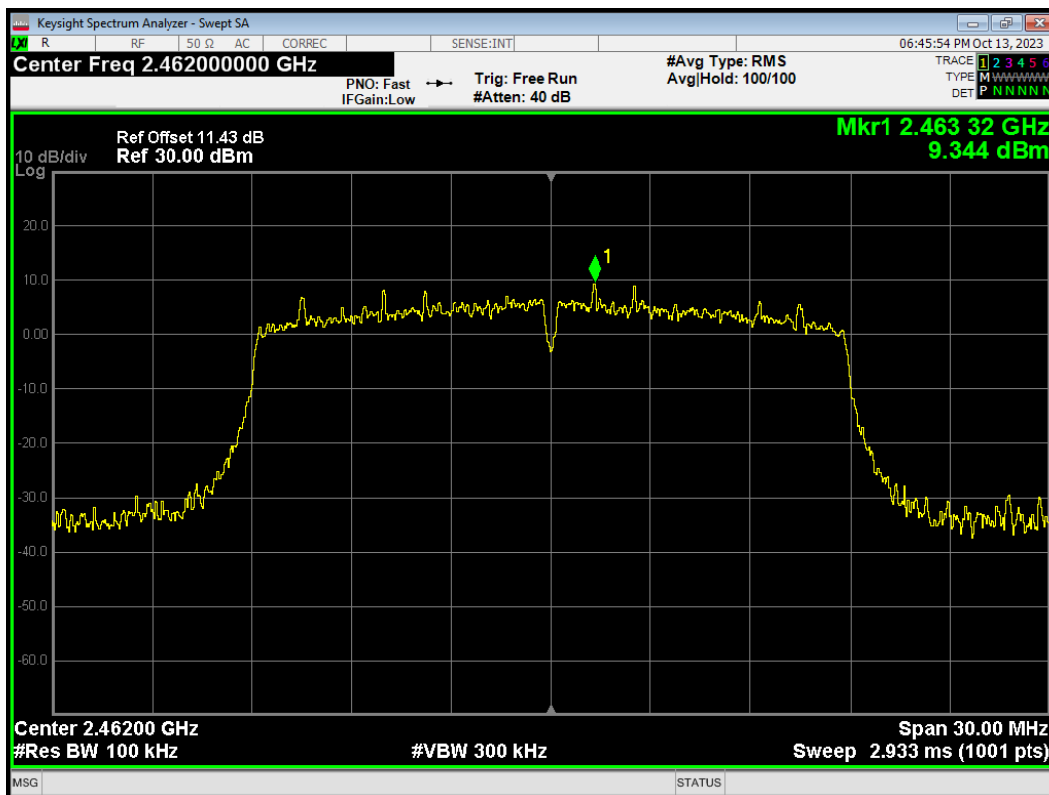
Band Edge 802.11n(HT20) 2457MHz Ref



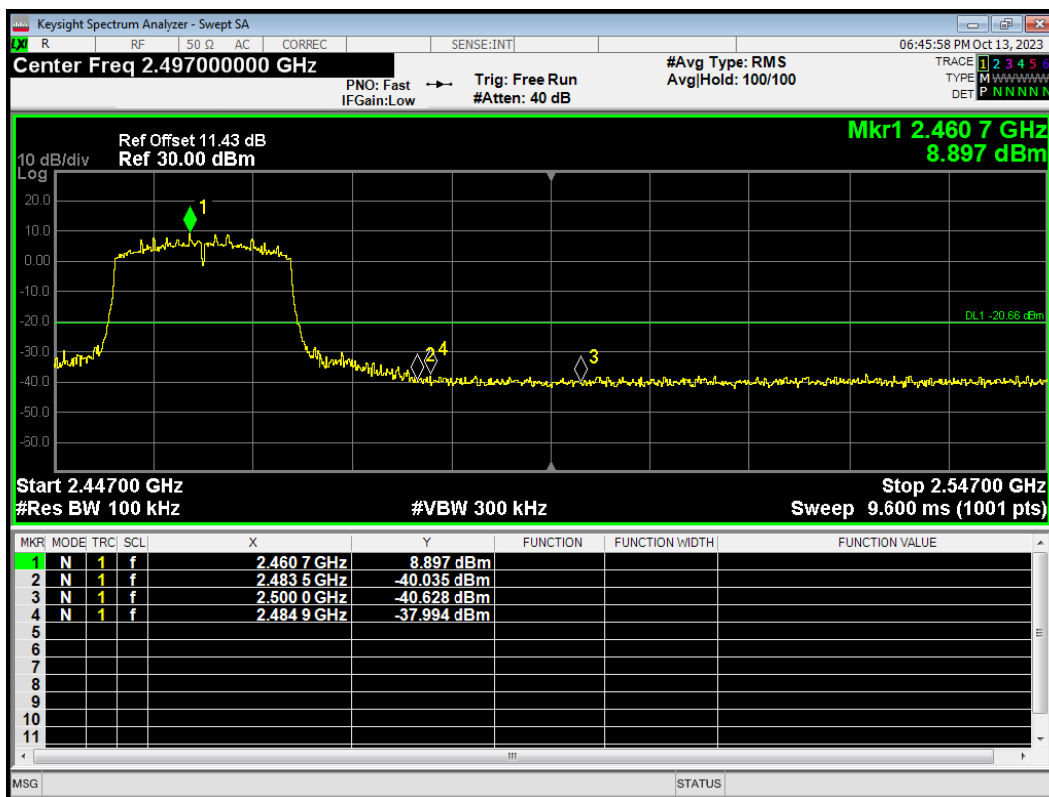
Band Edge 802.11n(HT20) 2457MHz Emission



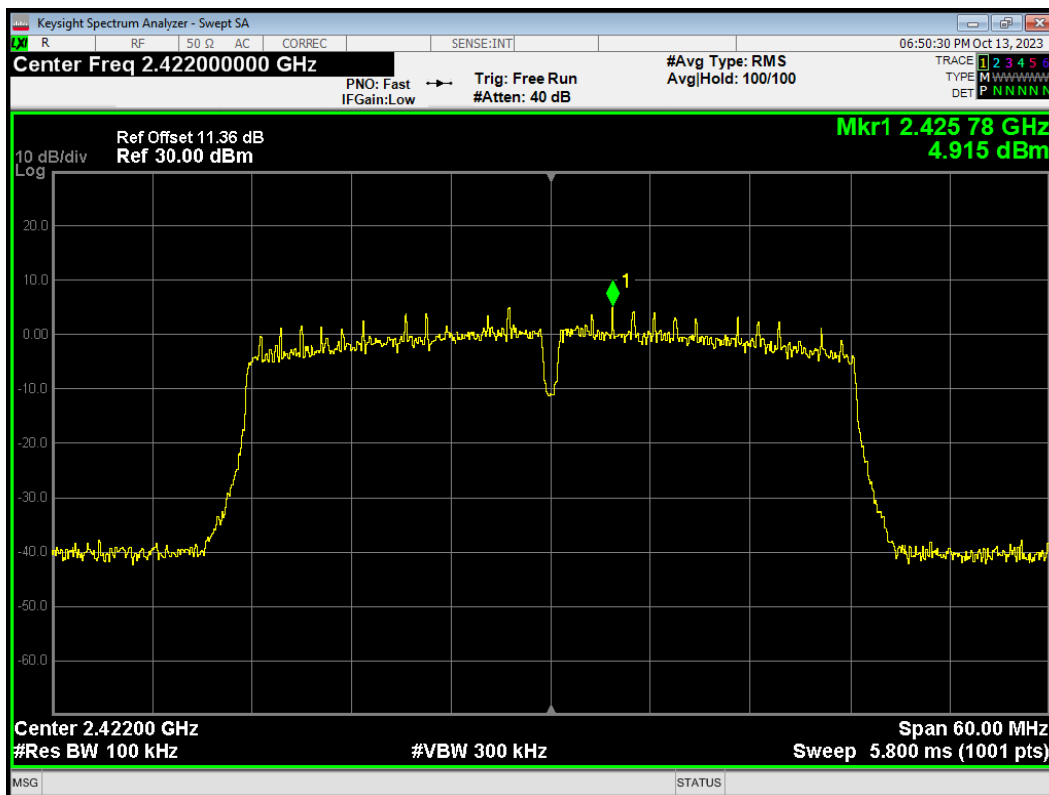
Band Edge 802.11n(HT20) 2462MHz Ref



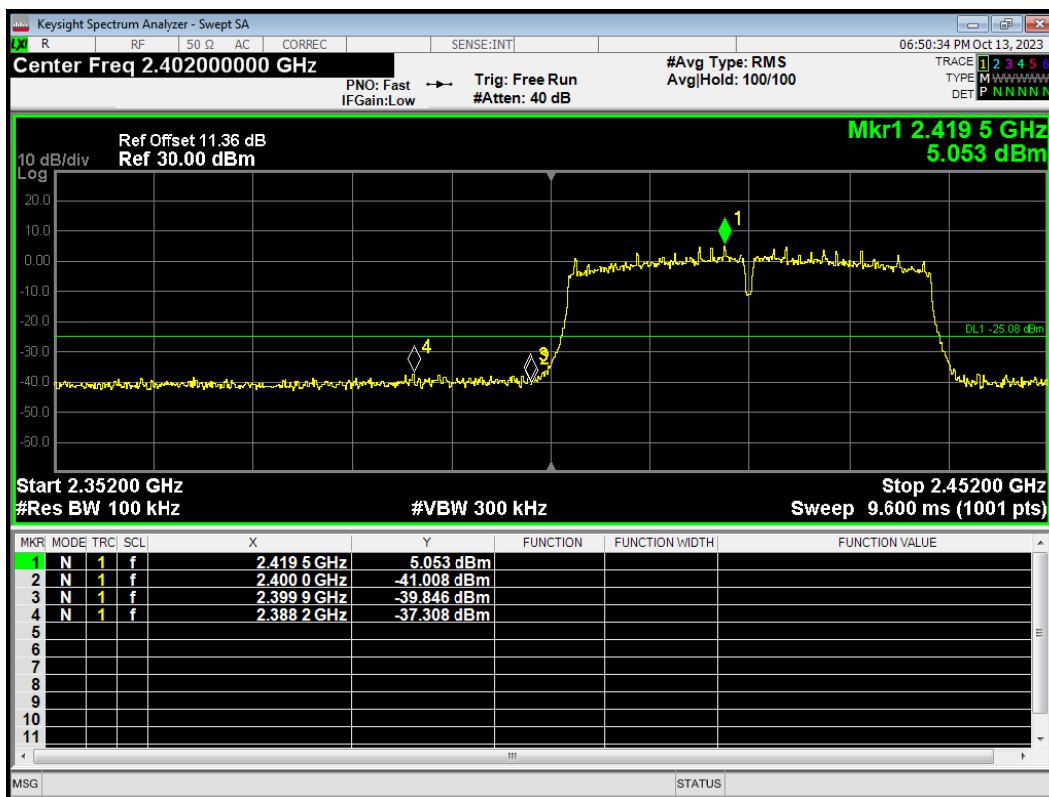
Band Edge 802.11n(HT20) 2462MHz Emission



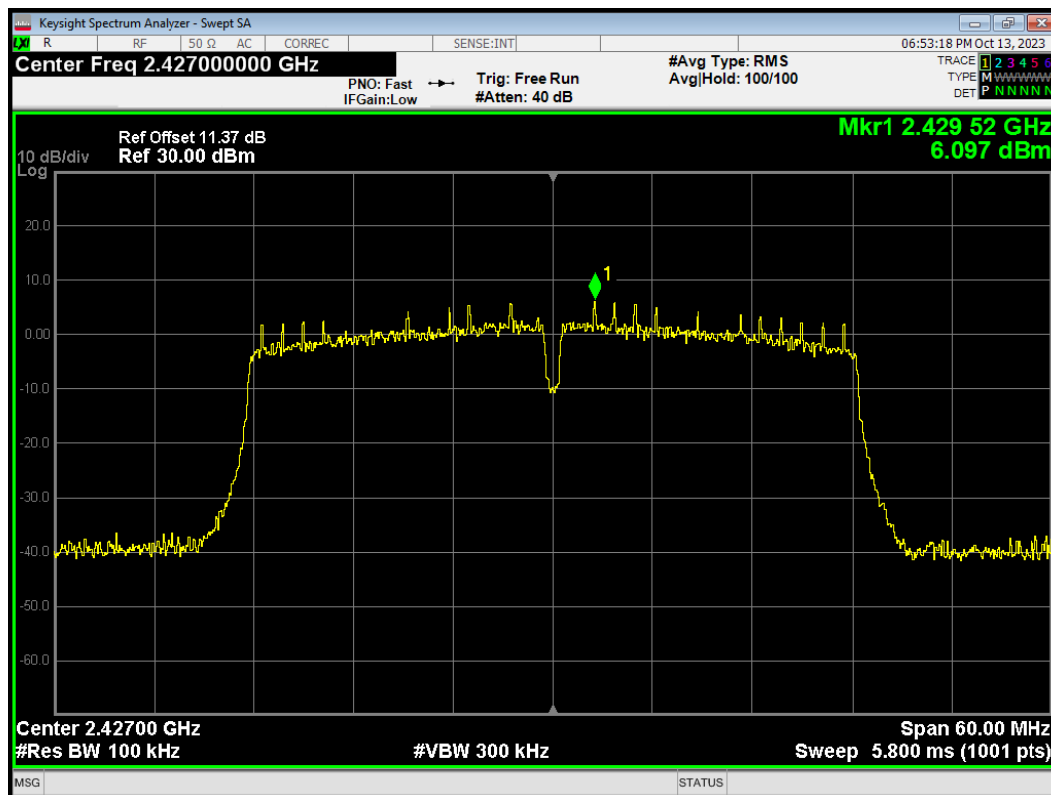
Band Edge 802.11n(HT40) 2422MHz Ref



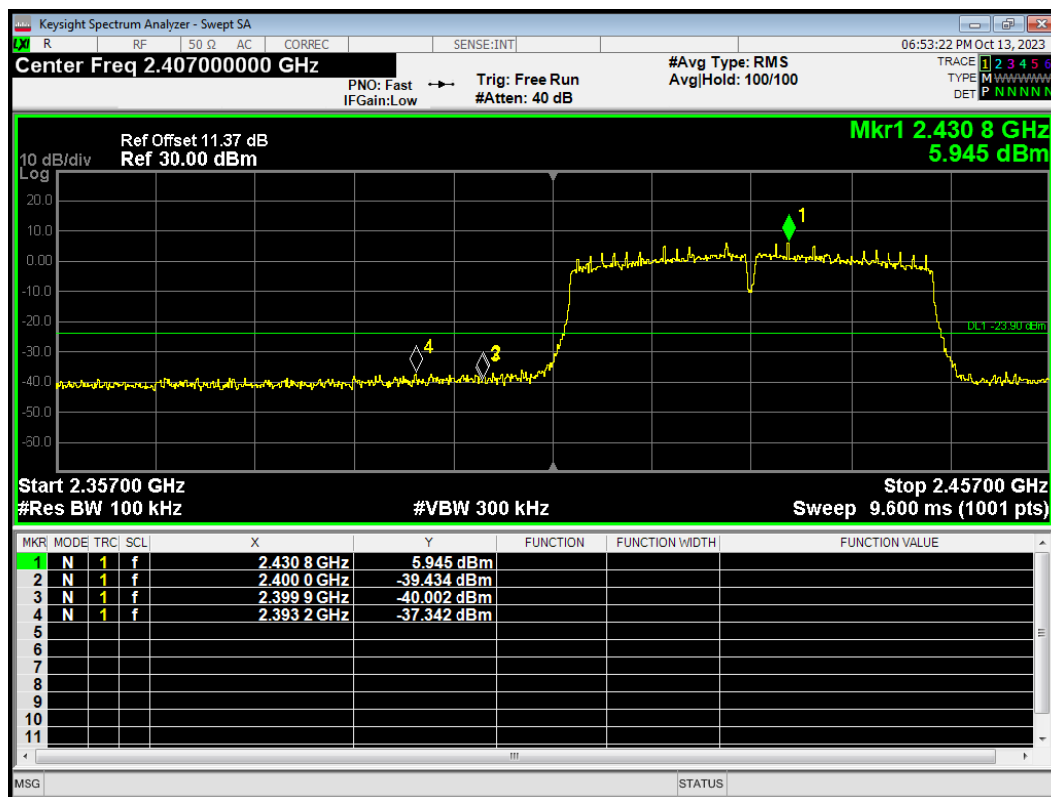
Band Edge 802.11n(HT40) 2422MHz Emission



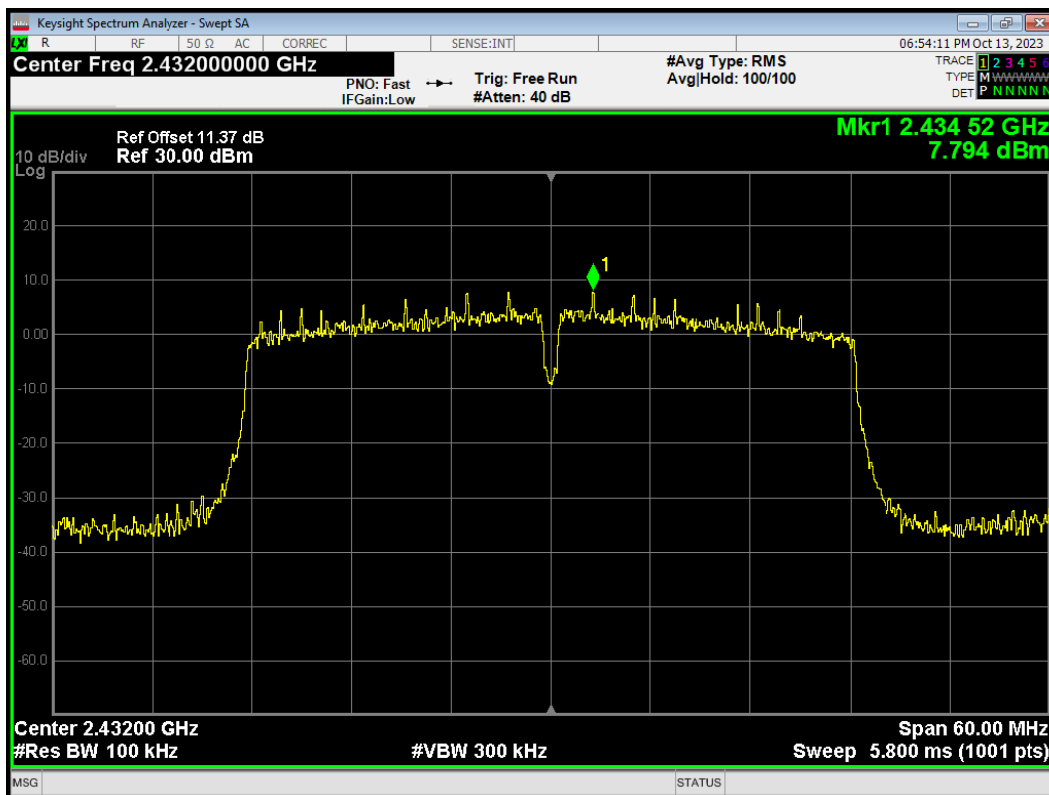
Band Edge 802.11n(HT40) 2427MHz Ref



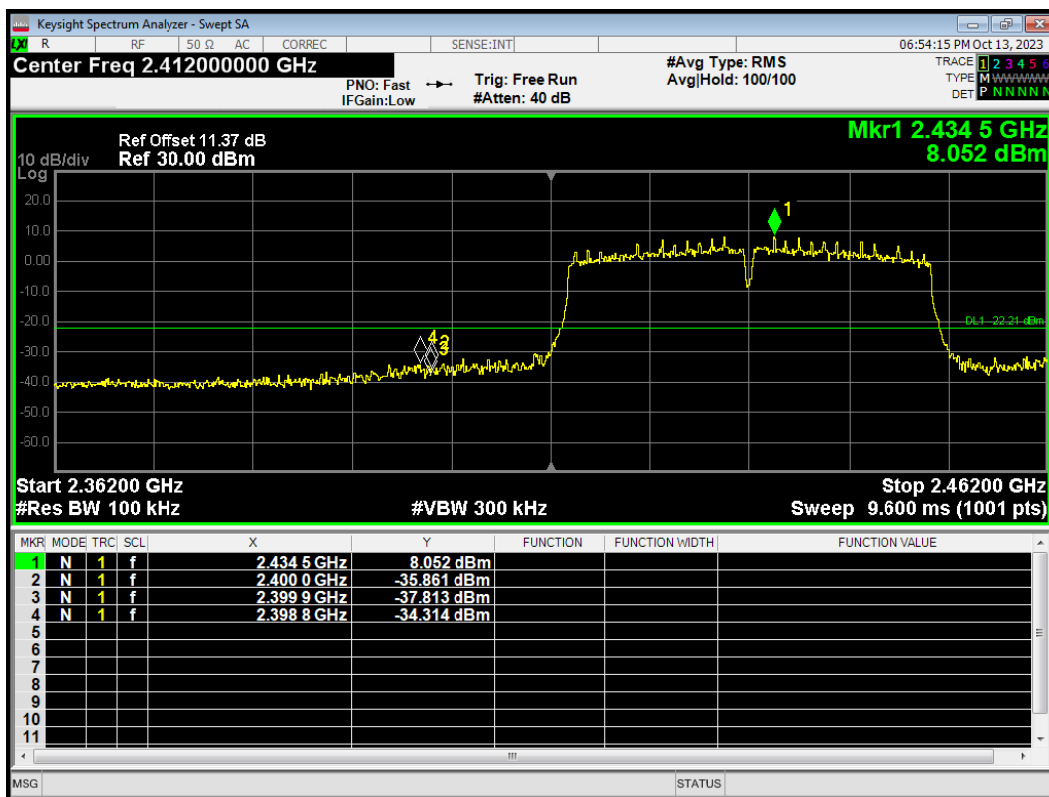
Band Edge 802.11n(HT40) 2427MHz Emission



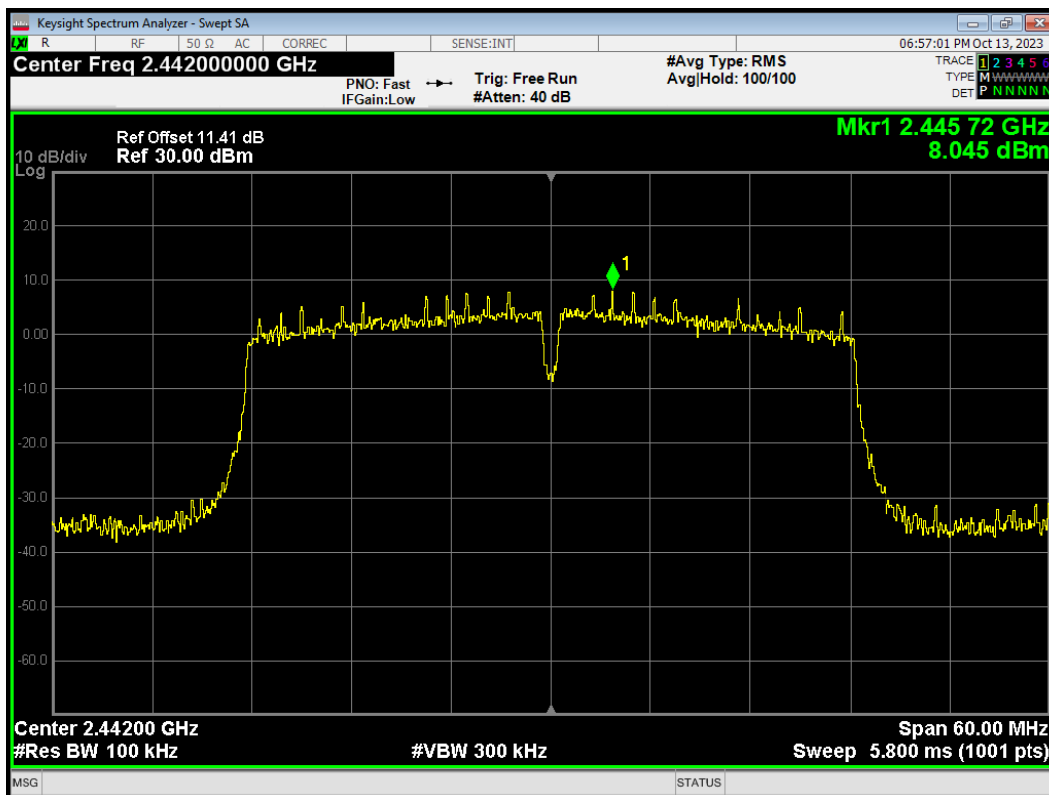
Band Edge 802.11n(HT40) 2432MHz Ref



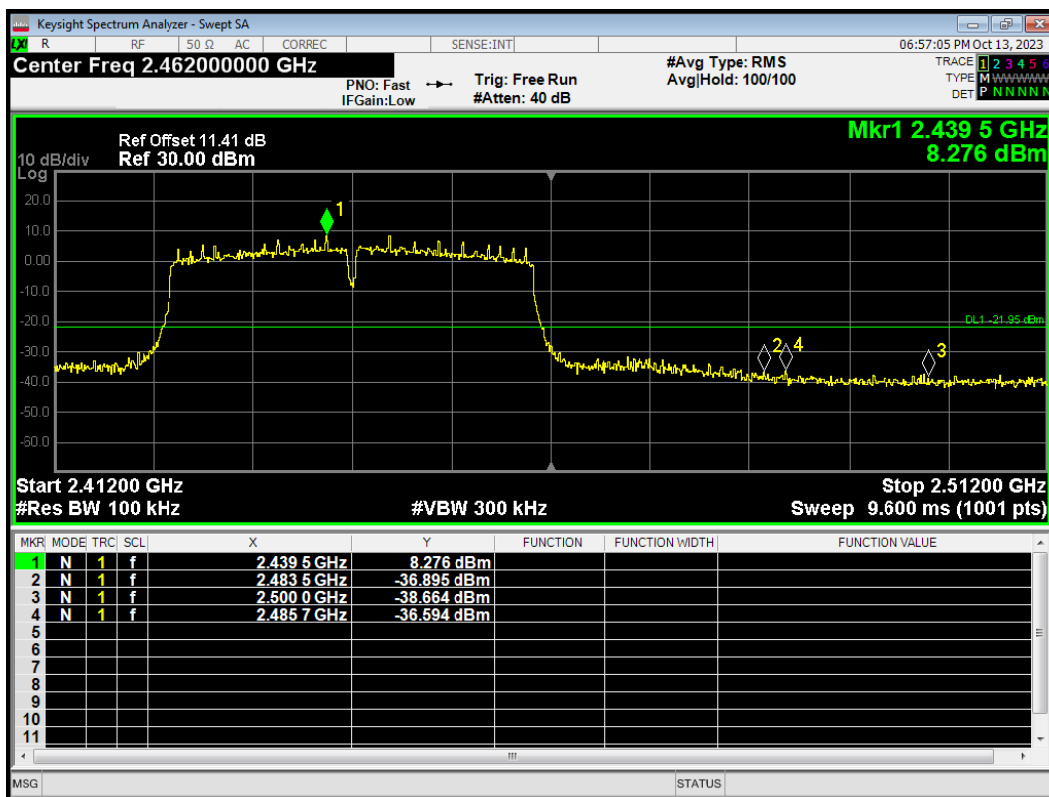
Band Edge 802.11n(HT40) 2432MHz Emission



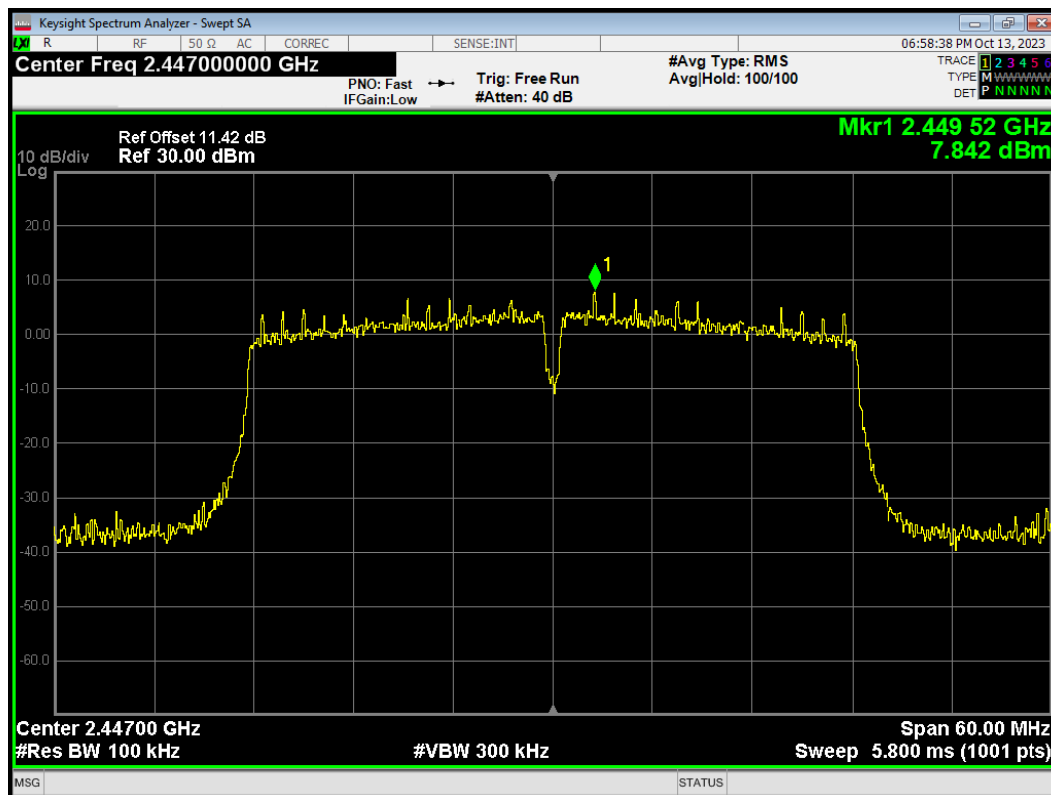
Band Edge 802.11n(HT40) 2442MHz Ref



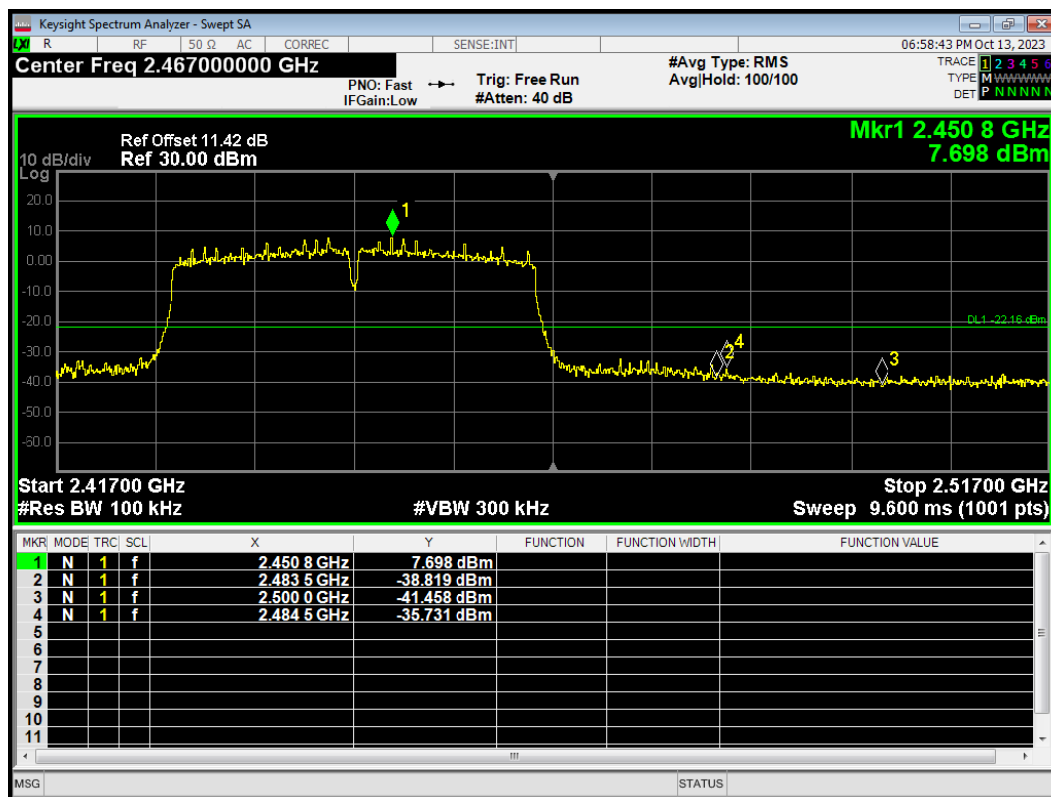
Band Edge 802.11n(HT40) 2442MHz Emission



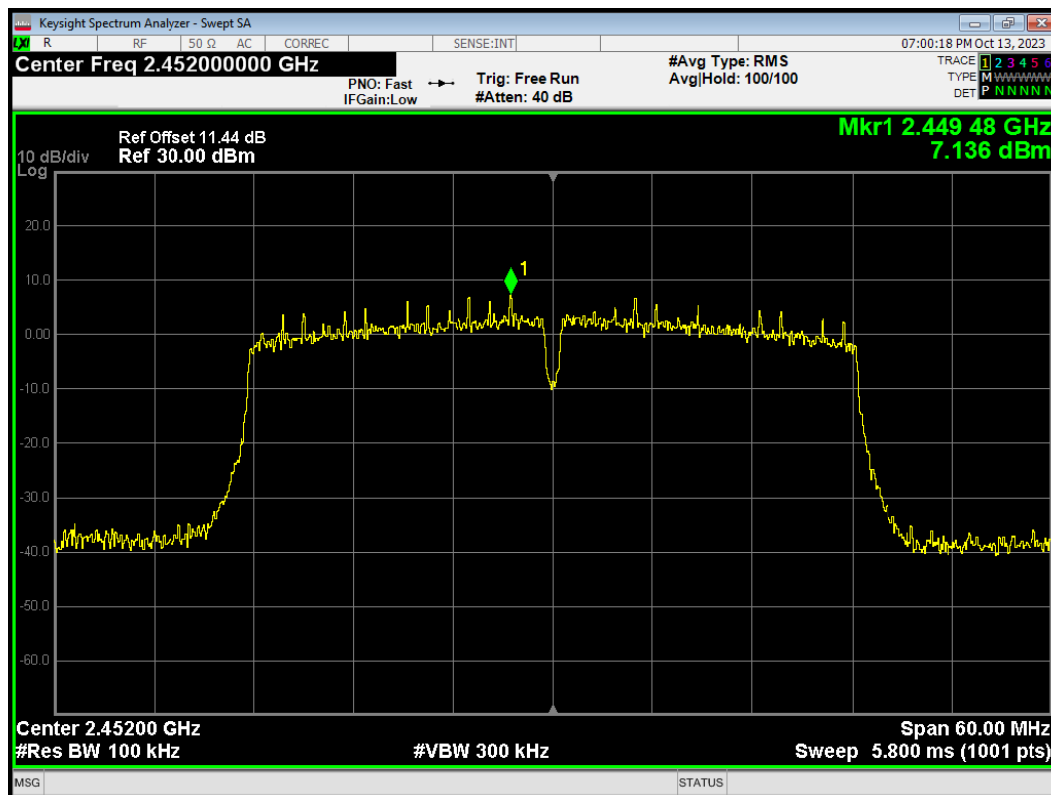
Band Edge 802.11n(HT40) 2447MHz Ref



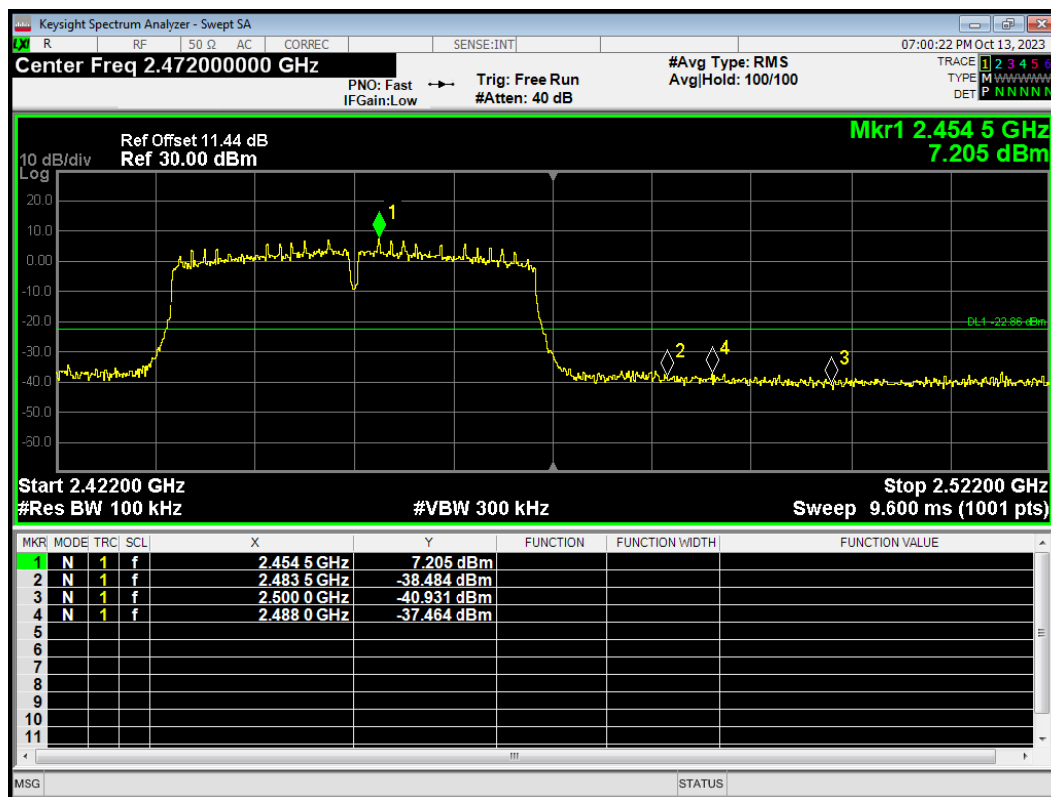
Band Edge 802.11n(HT40) 2447MHz Emission



Band Edge 802.11n(HT40) 2452MHz Ref



Band Edge 802.11n(HT40) 2452MHz Emission



5.4. Power Spectral Density

Ambient Condition

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

Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation.

Method AVGPS-1 was used for this test.

- Set instrument center frequency to DTS channel center frequency
- Set span to at least 1.5 times the OBW
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$
- Set VBW $\geq [3 \times \text{RBW}]$
- Detector=power averaging (rms) or sample detector (when rms not available)
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span}/\text{RBW}]$
- Sweep time auto couple
- Employ trace averaging (rms) mode over a minimum of 100 traces
- Use the peak marker function to determine the maximum amplitude level.
- If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

Method AVGPS-2 was used for this test.

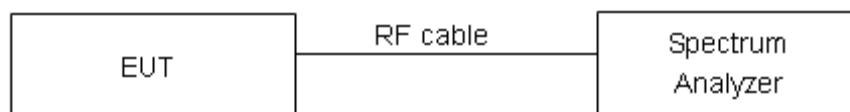
- Measure the duty cycle (D) of the transmitter output signal as described in 11.6
- Set instrument center frequency to DTS channel center frequency
- Set span to at least 1.5 times the OBW
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$
- Set VBW $\geq [3 \times \text{RBW}]$
- Detector= power averaging (rms) or sample detector (when rms not available)
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span}/\text{RBW}]$
- Sweep time =auto couple
- Do not use sweep triggering; allow sweep to "free run"
- Employ trace averaging (rms) mode over a minimum of 100 traces
- Use the peak marker function to determine the maximum amplitude level

l) Add $[10 \log(1/D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time

m) If measured value exceeds requirement specified by regulatory agency then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test setup



Limits

Rule Part 15.247(e) specifies that " For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. "

Limits	$\leq 8 \text{ dBm} / 3\text{kHz}$
--------	------------------------------------

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

Test Results:
AOT
MIMO
Antenna 1A + Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion
		Antenna 1A		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	0.27	-9.73	0.29	-9.71	-6.71	8	PASS
	2417/CH 2	0.25	-9.75	0.53	-9.47	-6.60	8	PASS
	2422/CH 3	0.34	-9.66	1.39	-8.61	-6.09	8	PASS
	2437/CH 6	1.16	-8.84	0.60	-9.40	-6.10	8	PASS
	2442/CH 7	2.18	-7.82	0.45	-9.55	-5.59	8	PASS
	2452/CH 9	1.31	-8.69	1.76	-8.24	-5.45	8	PASS
	2457/CH 10	0.86	-9.14	1.05	-8.95	-6.03	8	PASS
	2462/CH 11	0.11	-9.89	0.52	-9.48	-6.67	8	PASS
802.11g	2412/CH 1	-3.76	-13.45	-3.40	-13.09	-10.26	8	PASS
	2417/CH 2	-2.48	-12.17	-1.97	-11.66	-8.90	8	PASS
	2422/CH 3	-1.91	-11.60	-1.13	-10.82	-8.18	8	PASS
	2427/CH 4	-0.48	-10.17	-0.33	-10.02	-7.08	8	PASS
	2432/CH 5	0.23	-9.46	0.38	-9.31	-6.37	8	PASS
	2437/CH 6	1.01	-8.68	0.36	-9.33	-5.98	8	PASS
	2442/CH 7	-0.68	-10.37	-0.13	-9.82	-7.08	8	PASS
	2447/CH 8	-0.84	-10.53	-0.73	-10.42	-7.46	8	PASS
	2452/CH 9	-2.30	-11.99	-1.63	-11.32	-8.63	8	PASS
	2457/CH 10	-3.24	-12.93	-3.01	-12.70	-9.80	8	PASS
	2462/CH 11	-4.22	-13.91	-3.76	-13.45	-10.66	8	PASS
802.11n HT20	2412/CH 1	-4.72	-14.38	-3.57	-13.23	-10.76	8	PASS
	2417/CH 2	-3.20	-12.86	-2.32	-11.98	-9.39	8	PASS
	2422/CH 3	-2.32	-11.98	-1.20	-10.86	-8.37	8	PASS
	2427/CH 4	-1.84	-11.50	-0.05	-9.71	-7.50	8	PASS
	2432/CH 5	-0.61	-10.27	0.46	-9.20	-6.69	8	PASS
	2437/CH 6	-0.51	-10.17	0.88	-8.78	-6.41	8	PASS
	2442/CH 7	-0.77	-10.43	0.21	-9.45	-6.90	8	PASS
	2447/CH 8	-2.21	-11.87	-0.10	-9.76	-7.68	8	PASS
	2452/CH 9	-2.48	-12.14	-0.69	-10.35	-8.14	8	PASS
	2457/CH 10	-3.80	-13.46	-2.31	-11.97	-9.64	8	PASS
	2462/CH 11	-4.98	-14.64	-4.17	-13.83	-11.21	8	PASS
802.11n HT40	2422/CH 3	-8.85	-18.20	-6.70	-16.05	-13.98	8	PASS
	2427/CH 4	-7.37	-16.72	-6.60	-15.95	-13.31	8	PASS
	2432/CH 5	-6.78	-16.13	-5.25	-14.60	-12.29	8	PASS
	2437/CH 6	-6.09	-15.44	-5.47	-14.82	-12.11	8	PASS

	2442/CH 7	-7.45	-16.80	-6.43	-15.78	-13.25	8	PASS
	2447/CH 8	-7.71	-17.06	-6.52	-15.87	-13.41	8	PASS
	2452/CH 9	-9.04	-18.39	-8.59	-17.94	-15.15	8	PASS
802.11ax HE20	2412/CH 1	-4.73	-13.97	-4.51	-13.75	-10.85	8	PASS
	2417/CH 2	-4.17	-13.41	-3.35	-12.59	-9.97	8	PASS
	2422/CH 3	-2.60	-11.84	-1.02	-10.26	-7.97	8	PASS
	2427/CH 4	-2.19	-11.43	-1.26	-10.50	-7.93	8	PASS
	2432/CH 5	-0.96	-10.20	-0.01	-9.25	-6.69	8	PASS
	2437/CH 6	-1.32	-10.56	-0.55	-9.79	-7.15	8	PASS
	2442/CH 7	-1.07	-10.31	-0.39	-9.63	-6.95	8	PASS
	2447/CH 8	-1.04	-10.28	-0.79	-10.03	-7.14	8	PASS
	2452/CH 9	-2.44	-11.68	-2.39	-11.63	-8.64	8	PASS
	2457/CH 10	-2.82	-12.06	-2.62	-11.86	-8.95	8	PASS
	2462/CH 11	-5.16	-14.40	-4.62	-13.86	-11.11	8	PASS
802.11ax HE40	2422/CH 3	-9.51	-18.22	-8.92	-17.63	-14.90	8	PASS
	2427/CH 4	-8.75	-17.46	-6.72	-15.43	-13.32	8	PASS
	2432/CH 5	-8.10	-16.81	-6.04	-14.75	-12.65	8	PASS
	2437/CH 6	-6.82	-15.53	-5.74	-14.45	-11.95	8	PASS
	2442/CH 7	-8.07	-16.78	-7.86	-16.57	-13.66	8	PASS
	2447/CH 8	-8.67	-17.38	-8.07	-16.78	-14.06	8	PASS
	2452/CH 9	-10.38	-19.09	-8.99	-17.70	-15.33	8	PASS

Note: 1.Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*LOG10(3 / 30)

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),
the power spectral density= $10\log(10^{(\text{PSD antenna 1A in dBm/10})}+10^{(\text{PSD antenna 2 in dBm/10})})$

3. The manufacturer declared that the directional gain = 4 <6dBi. So the PSD limit is 8 dBm.

Antenna 1B + Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion
		Antenna 1B		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	0.86	-9.14	0.85	-9.15	-6.13	8	PASS
	2417/CH 2	1.09	-8.91	0.72	-9.28	-6.08	8	PASS
	2422/CH 3	-0.08	-10.08	0.75	-9.25	-6.63	8	PASS
	2437/CH 6	1.12	-8.88	0.99	-9.01	-5.93	8	PASS
	2442/CH 7	1.47	-8.53	1.18	-8.82	-5.66	8	PASS
	2452/CH 9	2.14	-7.86	1.88	-8.12	-4.98	8	PASS
	2457/CH 10	1.66	-8.34	1.52	-8.48	-5.40	8	PASS
	2462/CH 11	1.28	-8.72	0.42	-9.58	-6.12	8	PASS
802.11g	2412/CH 1	-3.01	-12.70	-3.72	-13.41	-10.03	8	PASS
	2417/CH 2	-2.01	-11.70	-2.29	-11.98	-8.83	8	PASS
	2422/CH 3	-0.85	-10.54	-1.29	-10.98	-7.74	8	PASS
	2427/CH 4	-0.21	-9.90	-0.10	-9.79	-6.83	8	PASS
	2432/CH 5	0.23	-9.46	0.50	-9.19	-6.31	8	PASS
	2437/CH 6	0.32	-9.37	0.56	-9.13	-6.24	8	PASS
	2442/CH 7	0.45	-9.24	-0.13	-9.82	-6.51	8	PASS
	2447/CH 8	-0.13	-9.82	-0.01	-9.70	-6.75	8	PASS
	2452/CH 9	-1.38	-11.07	-1.72	-11.41	-8.23	8	PASS
	2457/CH 10	-1.94	-11.63	-2.77	-12.46	-9.01	8	PASS
	2462/CH 11	-3.52	-13.21	-3.44	-13.13	-10.16	8	PASS
802.11n HT20	2412/CH 1	-3.66	-13.32	-3.45	-13.11	-10.20	8	PASS
	2417/CH 2	-1.90	-11.56	-1.99	-11.65	-8.59	8	PASS
	2422/CH 3	-1.30	-10.96	-0.66	-10.32	-7.62	8	PASS
	2427/CH 4	-0.93	-10.59	-0.42	-10.08	-7.32	8	PASS
	2432/CH 5	-0.03	-9.69	0.84	-8.82	-6.22	8	PASS
	2437/CH 6	0.73	-8.93	0.74	-8.92	-5.91	8	PASS
	2442/CH 7	-0.05	-9.71	0.36	-9.30	-6.49	8	PASS
	2447/CH 8	-1.26	-10.92	-1.00	-10.66	-7.78	8	PASS
	2452/CH 9	-1.67	-11.33	-0.70	-10.36	-7.81	8	PASS
	2457/CH 10	-2.66	-12.32	-2.90	-12.56	-9.43	8	PASS
	2462/CH 11	-4.20	-13.86	-3.90	-13.56	-10.70	8	PASS
802.11n HT40	2422/CH 3	-7.26	-16.61	-8.37	-17.72	-14.12	8	PASS
	2427/CH 4	-6.31	-15.66	-6.09	-15.44	-12.54	8	PASS
	2432/CH 5	-6.20	-15.55	-5.84	-15.19	-12.36	8	PASS
	2437/CH 6	-5.17	-14.52	-4.46	-13.81	-11.14	8	PASS
	2442/CH 7	-6.26	-15.61	-6.84	-16.19	-12.88	8	PASS
	2447/CH 8	-6.51	-15.86	-6.86	-16.21	-13.02	8	PASS
	2452/CH 9	-7.61	-16.96	-7.98	-17.33	-14.13	8	PASS

802.11ax HE20	2412/CH 1	-3.23	-12.47	-4.09	-13.33	-9.87	8	PASS
	2417/CH 2	-2.98	-12.22	-3.02	-12.26	-9.23	8	PASS
	2422/CH 3	-2.10	-11.34	-1.86	-11.10	-8.21	8	PASS
	2427/CH 4	-0.31	-9.55	-0.35	-9.59	-6.56	8	PASS
	2432/CH 5	0.56	-8.68	-0.19	-9.43	-6.03	8	PASS
	2437/CH 6	-0.17	-9.41	0.12	-9.12	-6.25	8	PASS
	2442/CH 7	-0.46	-9.70	-0.36	-9.60	-6.64	8	PASS
	2447/CH 8	-0.76	-10.00	-0.32	-9.56	-6.76	8	PASS
	2452/CH 9	-2.02	-11.26	-1.95	-11.19	-8.21	8	PASS
	2457/CH 10	-1.99	-11.23	-2.32	-11.56	-8.38	8	PASS
	2462/CH 11	-4.66	-13.90	-4.80	-14.04	-10.96	8	PASS
802.11ax HE40	2422/CH 3	-8.93	-17.64	-7.92	-16.63	-14.10	8	PASS
	2427/CH 4	-8.05	-16.76	-7.72	-16.43	-13.58	8	PASS
	2432/CH 5	-6.36	-15.07	-6.48	-15.19	-12.12	8	PASS
	2437/CH 6	-5.72	-14.43	-5.36	-14.07	-11.24	8	PASS
	2442/CH 7	-7.50	-16.21	-6.80	-15.51	-12.84	8	PASS
	2447/CH 8	-7.24	-15.95	-8.12	-16.83	-13.36	8	PASS
	2452/CH 9	-9.80	-18.51	-9.45	-18.16	-15.32	8	PASS

Note: 1.Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*LOG10(3 / 30)

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD antenna 1B in dBm}/10)}+10^{(\text{PSD antenna 2 in dBm}/10)})$

3. The manufacturer declared that the directional gain = 4 <6dBi. So the PSD limit is 8 dBm.

Beamforming

Antenna 1A + Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion
		Antenna 1A		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	-0.22	-10.22	0.09	-9.91	-7.05	8	PASS
	2417/CH 2	-0.17	-10.17	0.07	-9.93	-7.04	8	PASS
	2422/CH 3	0.81	-9.19	0.82	-9.18	-6.17	8	PASS
	2437/CH 6	1.16	-8.84	1.00	-9.00	-5.91	8	PASS
	2442/CH 7	1.45	-8.55	0.66	-9.34	-5.92	8	PASS
	2452/CH 9	1.07	-8.93	1.66	-8.34	-5.61	8	PASS
	2457/CH 10	0.44	-9.56	1.20	-8.80	-6.15	8	PASS
	2462/CH 11	-0.24	-10.24	0.37	-9.63	-6.91	8	PASS
802.11g	2412/CH 1	-4.29	-13.98	-3.63	-13.32	-10.63	8	PASS
	2417/CH 2	-3.11	-12.80	-2.36	-12.05	-9.40	8	PASS
	2422/CH 3	-2.07	-11.76	-1.56	-11.25	-8.49	8	PASS
	2427/CH 4	-1.12	-10.81	-0.47	-10.16	-7.46	8	PASS
	2432/CH 5	-0.18	-9.87	0.43	-9.26	-6.54	8	PASS
	2437/CH 6	0.08	-9.61	0.04	-9.65	-6.62	8	PASS
	2442/CH 7	-0.54	-10.23	0.37	-9.32	-6.74	8	PASS
	2447/CH 8	-1.17	-10.86	-0.35	-10.04	-7.42	8	PASS
	2452/CH 9	-2.11	-11.80	-2.15	-11.84	-8.81	8	PASS
	2457/CH 10	-3.64	-13.33	-2.99	-12.68	-9.98	8	PASS
	2462/CH 11	-4.24	-13.93	-3.41	-13.10	-10.48	8	PASS
802.11n HT20	2412/CH 1	-5.25	-14.91	-3.71	-13.37	-11.06	8	PASS
	2417/CH 2	-3.79	-13.45	-2.42	-12.08	-9.70	8	PASS
	2422/CH 3	-2.31	-11.97	-1.23	-10.89	-8.39	8	PASS
	2427/CH 4	-2.14	-11.80	-0.63	-10.29	-7.97	8	PASS
	2432/CH 5	-0.83	-10.49	0.35	-9.31	-6.85	8	PASS
	2437/CH 6	-1.04	-10.70	0.45	-9.21	-6.88	8	PASS
	2442/CH 7	-1.67	-11.33	0.47	-9.19	-7.12	8	PASS
	2447/CH 8	-2.10	-11.76	-1.00	-10.66	-8.16	8	PASS
	2452/CH 9	-2.75	-12.41	-1.51	-11.17	-8.74	8	PASS
	2457/CH 10	-4.07	-13.73	-2.34	-12.00	-9.77	8	PASS
	2462/CH 11	-5.28	-14.94	-4.44	-14.10	-11.49	8	PASS
802.11n HT40	2422/CH 3	-8.90	-18.25	-8.56	-17.91	-15.07	8	PASS
	2427/CH 4	-7.84	-17.19	-7.49	-16.84	-14.00	8	PASS
	2432/CH 5	-6.63	-15.98	-6.29	-15.64	-12.80	8	PASS
	2437/CH 6	-6.09	-15.44	-5.41	-14.76	-12.08	8	PASS
	2442/CH 7	-7.51	-16.86	-6.67	-16.02	-13.41	8	PASS
	2447/CH 8	-8.08	-17.43	-7.25	-16.60	-13.98	8	PASS

	2452/CH 9	-9.21	-18.56	-8.05	-17.40	-14.93	8	PASS
802.11ax HE20	2412/CH 1	-5.40	-14.64	-4.88	-14.12	-11.36	8	PASS
	2417/CH 2	-4.47	-13.71	-2.81	-12.05	-9.79	8	PASS
	2422/CH 3	-2.67	-11.91	-2.27	-11.51	-8.70	8	PASS
	2427/CH 4	-2.15	-11.39	-1.11	-10.35	-7.83	8	PASS
	2432/CH 5	-0.66	-9.90	0.22	-9.02	-6.43	8	PASS
	2437/CH 6	-1.78	-11.02	-0.08	-9.32	-7.08	8	PASS
	2442/CH 7	-2.00	-11.24	-1.31	-10.55	-7.87	8	PASS
	2447/CH 8	-1.63	-10.87	-0.54	-9.78	-7.28	8	PASS
	2452/CH 9	-3.06	-12.30	-2.18	-11.42	-8.83	8	PASS
	2457/CH 10	-3.77	-13.01	-3.09	-12.33	-9.65	8	PASS
	2462/CH 11	-5.78	-15.02	-4.72	-13.96	-11.45	8	PASS
802.11ax HE40	2422/CH 3	-9.62	-18.33	-8.32	-17.03	-14.62	8	PASS
	2427/CH 4	-8.40	-17.11	-7.99	-16.70	-13.89	8	PASS
	2432/CH 5	-8.15	-16.86	-7.09	-15.80	-13.29	8	PASS
	2437/CH 6	-6.96	-15.67	-6.08	-14.79	-12.20	8	PASS
	2442/CH 7	-8.32	-17.03	-7.59	-16.30	-13.64	8	PASS
	2447/CH 8	-8.85	-17.56	-8.38	-17.09	-14.31	8	PASS
	2452/CH 9	-10.27	-18.98	-9.23	-17.94	-15.42	8	PASS

Note: 1. Power Spectral Density (dBm/3kHz) = Read Value + Duty cycle correction factor + $10 \cdot \log_{10}(3 / 30)$

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),
the power spectral density = $10 \log(10^{(\text{PSD antenna 1A in dBm/10})} + 10^{(\text{PSD antenna 2 in dBm/10})})$

3. The manufacturer declared that the directional gain = 4 < 6dBi. So the PSD limit is 8 dBm.

Antenna 1B + Antenna 2

Test Mode	Carrier frequency (MHz) \/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion
		Antenna 1B		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	0.64	-9.36	0.25	-9.75	-6.54	8	PASS
	2417/CH 2	0.69	-9.31	0.45	-9.55	-6.42	8	PASS
	2422/CH 3	-0.39	-10.39	0.92	-9.08	-6.68	8	PASS
	2437/CH 6	0.75	-9.25	0.87	-9.13	-6.18	8	PASS
	2442/CH 7	1.07	-8.93	0.56	-9.44	-6.17	8	PASS
	2452/CH 9	2.17	-7.83	1.79	-8.21	-5.01	8	PASS
	2457/CH 10	1.27	-8.73	1.17	-8.83	-5.77	8	PASS
	2462/CH 11	1.09	-8.91	0.58	-9.42	-6.15	8	PASS
802.11g	2412/CH 1	-3.25	-12.94	-3.74	-13.43	-10.17	8	PASS
	2417/CH 2	-2.17	-11.86	-2.79	-12.48	-9.15	8	PASS
	2422/CH 3	-1.30	-10.99	-1.28	-10.97	-7.97	8	PASS
	2427/CH 4	-0.48	-10.17	-0.30	-9.99	-7.07	8	PASS
	2432/CH 5	-0.26	-9.95	0.21	-9.48	-6.70	8	PASS
	2437/CH 6	0.25	-9.44	-0.08	-9.77	-6.59	8	PASS
	2442/CH 7	0.52	-9.17	-0.33	-10.02	-6.56	8	PASS
	2447/CH 8	-0.45	-10.14	-1.04	-10.73	-7.41	8	PASS
	2452/CH 9	-1.40	-11.09	-1.95	-11.64	-8.35	8	PASS
	2457/CH 10	-2.70	-12.39	-3.06	-12.75	-9.56	8	PASS
	2462/CH 11	-3.61	-13.30	-4.25	-13.94	-10.60	8	PASS
802.11n HT20	2412/CH 1	-4.03	-13.69	-3.30	-12.96	-10.30	8	PASS
	2417/CH 2	-2.03	-11.69	-2.14	-11.80	-8.73	8	PASS
	2422/CH 3	-1.65	-11.31	-0.90	-10.56	-7.91	8	PASS
	2427/CH 4	-0.80	-10.46	-0.59	-10.25	-7.34	8	PASS
	2432/CH 5	0.04	-9.62	0.15	-9.51	-6.55	8	PASS
	2437/CH 6	-0.02	-9.68	0.32	-9.34	-6.50	8	PASS
	2442/CH 7	-0.65	-10.31	0.09	-9.57	-6.91	8	PASS
	2447/CH 8	-1.48	-11.14	-0.70	-10.36	-7.72	8	PASS
	2452/CH 9	-1.79	-11.45	-0.99	-10.65	-8.02	8	PASS
	2457/CH 10	-2.65	-12.31	-2.49	-12.15	-9.22	8	PASS
	2462/CH 11	-4.14	-13.80	-4.09	-13.75	-10.76	8	PASS
802.11n HT40	2422/CH 3	-8.27	-17.62	-7.61	-16.96	-14.27	8	PASS
	2427/CH 4	-7.12	-16.47	-7.23	-16.58	-13.51	8	PASS
	2432/CH 5	-5.40	-14.75	-5.99	-15.34	-12.02	8	PASS
	2437/CH 6	-5.44	-14.79	-5.16	-14.51	-11.64	8	PASS
	2442/CH 7	-6.53	-15.88	-6.65	-16.00	-12.93	8	PASS
	2447/CH 8	-6.63	-15.98	-6.50	-15.85	-12.90	8	PASS
	2452/CH 9	-8.16	-17.51	-8.69	-18.04	-14.76	8	PASS

802.11ax HE20	2412/CH 1	-4.66	-13.90	-4.62	-13.86	-10.87	8	PASS
	2417/CH 2	-3.37	-12.61	-3.08	-12.32	-9.45	8	PASS
	2422/CH 3	-1.30	-10.54	-2.15	-11.39	-7.93	8	PASS
	2427/CH 4	-0.94	-10.18	-1.06	-10.30	-7.23	8	PASS
	2432/CH 5	-0.04	-9.28	-0.68	-9.92	-6.58	8	PASS
	2437/CH 6	-0.29	-9.53	-0.50	-9.74	-6.62	8	PASS
	2442/CH 7	-0.79	-10.03	-1.27	-10.51	-7.25	8	PASS
	2447/CH 8	-1.22	-10.46	-0.43	-9.67	-7.04	8	PASS
	2452/CH 9	-1.94	-11.18	-2.05	-11.29	-8.22	8	PASS
	2457/CH 10	-2.59	-11.83	-3.20	-12.44	-9.11	8	PASS
	2462/CH 11	-4.63	-13.87	-5.41	-14.65	-11.23	8	PASS
802.11ax HE40	2422/CH 3	-8.35	-17.06	-8.69	-17.40	-14.22	8	PASS
	2427/CH 4	-8.52	-17.23	-7.97	-16.68	-13.94	8	PASS
	2432/CH 5	-6.74	-15.45	-6.59	-15.30	-12.36	8	PASS
	2437/CH 6	-6.08	-14.79	-6.77	-15.48	-12.11	8	PASS
	2442/CH 7	-7.33	-16.04	-7.13	-15.84	-12.93	8	PASS
	2447/CH 8	-7.98	-16.69	-7.88	-16.59	-13.63	8	PASS
	2452/CH 9	-9.38	-18.09	-9.06	-17.77	-14.92	8	PASS

Note: 1.Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*LOG10(3 / 30)

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD antenna 1B in dBm/10})}+10^{(\text{PSD antenna 2 in dBm/10})})$

3. The manufacturer declared that the directional gain = 4 <6dBi. So the PSD limit is 8 dBm.

DZZ
MIMO
Antenna 1A + Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion	
		Antenna 1A		Antenna 2					
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)			
802.11b	2412/CH 1	0.12	-9.88	1.19	-8.81	-6.30	8	PASS	
	2437/CH 6	0.80	-9.20	0.86	-9.14	-6.16	8	PASS	
	2462/CH 11	2.50	-7.50	0.84	-9.16	-5.24	8	PASS	
802.11g	2412/CH 1	-2.25	-11.94	-2.67	-12.36	-9.13	8	PASS	
	2417/CH 2	-2.33	-12.02	-1.46	-11.15	-8.55	8	PASS	
	2422/CH 3	-0.74	-10.43	-0.89	-10.58	-7.49	8	PASS	
	2427/CH 4	-0.18	-9.87	0.14	-9.55	-6.70	8	PASS	
	2437/CH 6	-0.13	-9.82	0.55	-9.14	-6.46	8	PASS	
	2442/CH 7	-0.40	-10.09	0.10	-9.59	-6.82	8	PASS	
	2447/CH 8	-1.57	-11.26	-0.72	-10.41	-7.80	8	PASS	
	2452/CH 9	-2.30	-11.99	-1.65	-11.34	-8.64	8	PASS	
	2457/CH 10	-2.63	-12.32	-1.40	-11.09	-8.65	8	PASS	
	2462/CH 11	-3.60	-13.29	-2.75	-12.44	-9.83	8	PASS	
	802.11n HT20	2412/CH 1	-3.67	-13.33	-2.16	-11.82	-9.50	8	PASS
		2417/CH 2	-2.96	-12.62	-1.68	-11.34	-8.92	8	PASS
2422/CH 3		-1.64	-11.30	-0.18	-9.84	-7.50	8	PASS	
2427/CH 4		-0.41	-10.07	0.34	-9.32	-6.67	8	PASS	
2437/CH 6		0.16	-9.50	0.02	-9.64	-6.56	8	PASS	
2442/CH 7		0.08	-9.58	0.66	-9.00	-6.27	8	PASS	
2447/CH 8		-1.63	-11.29	-0.34	-10.00	-7.59	8	PASS	
2452/CH 9		-3.11	-12.77	-1.38	-11.04	-8.81	8	PASS	
2457/CH 10		-3.55	-13.21	-2.39	-12.05	-9.58	8	PASS	
2462/CH 11		-3.84	-13.50	-3.34	-13.00	-10.23	8	PASS	
802.11n HT40	2422/CH 3	-8.88	-18.23	-8.59	-17.94	-15.07	8	PASS	
	2427/CH 4	-8.35	-17.70	-5.83	-15.18	-13.25	8	PASS	
	2432/CH 5	-5.50	-14.85	-4.44	-13.79	-11.28	8	PASS	
	2437/CH 6	-5.01	-14.36	-4.41	-13.76	-11.04	8	PASS	
	2442/CH 7	-5.60	-14.95	-4.89	-14.24	-11.57	8	PASS	
	2447/CH 8	-5.50	-14.85	-5.23	-14.58	-11.70	8	PASS	
	2452/CH 9	-6.63	-15.98	-5.45	-14.80	-12.34	8	PASS	
802.11ax HE20	2412/CH 1	-4.61	-13.85	-4.03	-13.27	-10.54	8	PASS	
	2417/CH 2	-3.09	-12.33	-2.68	-11.92	-9.11	8	PASS	
	2422/CH 3	-1.60	-10.84	-1.86	-11.10	-7.96	8	PASS	
	2427/CH 4	-0.63	-9.87	-0.03	-9.27	-6.55	8	PASS	
	2432/CH 5	-0.19	-9.43	0.45	-8.79	-6.09	8	PASS	

	2437/CH 6	-0.36	-9.60	-0.58	-9.82	-6.70	8	PASS
	2442/CH 7	-0.26	-9.50	-1.00	-10.24	-6.84	8	PASS
	2447/CH 8	-1.10	-10.34	-0.63	-9.87	-7.09	8	PASS
	2452/CH 9	-2.10	-11.34	-1.16	-10.40	-7.83	8	PASS
	2457/CH 10	-4.17	-13.41	-3.54	-12.78	-10.07	8	PASS
	2462/CH 11	-4.84	-14.08	-4.53	-13.77	-10.91	8	PASS
802.11ax HE40	2422/CH 3	-9.01	-17.72	-8.97	-17.68	-14.69	8	PASS
	2427/CH 4	-8.50	-17.21	-7.57	-16.28	-13.71	8	PASS
	2432/CH 5	-6.65	-15.36	-5.88	-14.59	-11.95	8	PASS
	2437/CH 6	-5.88	-14.59	-5.01	-13.72	-11.12	8	PASS
	2442/CH 7	-6.54	-15.25	-6.33	-15.04	-12.13	8	PASS
	2447/CH 8	-5.72	-14.43	-4.66	-13.37	-10.86	8	PASS
	2452/CH 9	-8.10	-16.81	-7.32	-16.03	-13.39	8	PASS

Note: 1. Power Spectral Density (dBm/3kHz) = Read Value + Duty cycle correction factor + $10 \cdot \log_{10}(3 / 30)$

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density = $10 \log(10^{(\text{PSD antenna 1A in dBm/10})} + 10^{(\text{PSD antenna 2 in dBm/10})})$

3. The manufacturer declared that the directional gain = 4.06 < 6dBi. So the PSD limit is 8 dBm.

Antenna 1B + Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion
		Antenna 1B		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	-0.75	-10.75	0.53	-9.47	-7.05	8	PASS
	2437/CH 6	1.11	-8.89	1.01	-8.99	-5.93	8	PASS
	2462/CH 11	2.19	-7.81	0.85	-9.15	-5.42	8	PASS
802.11g	2412/CH 1	-1.71	-11.40	-2.09	-11.78	-8.58	8	PASS
	2417/CH 2	-1.24	-10.93	-2.11	-11.80	-8.33	8	PASS
	2422/CH 3	-0.37	-10.06	-1.00	-10.69	-7.35	8	PASS
	2427/CH 4	-0.02	-9.71	-0.01	-9.70	-6.69	8	PASS
	2437/CH 6	-0.20	-9.89	-0.23	-9.92	-6.89	8	PASS
	2442/CH 7	0.30	-9.39	-0.31	-10.00	-6.67	8	PASS
	2447/CH 8	-0.98	-10.67	-0.76	-10.45	-7.55	8	PASS
	2452/CH 9	-1.11	-10.80	-1.43	-11.12	-7.95	8	PASS
	2457/CH 10	-1.18	-10.87	-2.25	-11.94	-8.36	8	PASS
	2462/CH 11	-2.90	-12.59	-3.55	-13.24	-9.89	8	PASS
802.11n HT20	2412/CH 1	-2.27	-11.93	-2.42	-12.08	-8.99	8	PASS
	2417/CH 2	-2.14	-11.80	-1.68	-11.34	-8.55	8	PASS
	2422/CH 3	-1.06	-10.72	-0.78	-10.44	-7.57	8	PASS
	2427/CH 4	-0.38	-10.04	0.35	-9.31	-6.65	8	PASS
	2437/CH 6	-0.04	-9.70	0.25	-9.41	-6.54	8	PASS
	2442/CH 7	-0.44	-10.10	0.54	-9.12	-6.57	8	PASS
	2447/CH 8	-0.04	-9.70	-0.01	-9.67	-6.67	8	PASS
	2452/CH 9	-1.89	-11.55	-1.23	-10.89	-8.20	8	PASS
	2457/CH 10	-2.78	-12.44	-2.47	-12.13	-9.27	8	PASS
	2462/CH 11	-3.12	-12.78	-2.94	-12.60	-9.68	8	PASS
802.11n HT40	2422/CH 3	-8.19	-17.54	-7.81	-17.16	-14.34	8	PASS
	2427/CH 4	-6.97	-16.32	-7.13	-16.48	-13.39	8	PASS
	2432/CH 5	-5.37	-14.72	-5.12	-14.47	-11.58	8	PASS
	2437/CH 6	-4.34	-13.69	-3.42	-12.77	-10.20	8	PASS
	2442/CH 7	-4.73	-14.08	-5.48	-14.83	-11.43	8	PASS
	2447/CH 8	-5.40	-14.75	-5.55	-14.90	-11.81	8	PASS
	2452/CH 9	-5.80	-15.15	-5.13	-14.48	-11.79	8	PASS
802.11ax HE20	2412/CH 1	-3.66	-12.90	-4.41	-13.65	-10.25	8	PASS
	2417/CH 2	-2.61	-11.85	-2.84	-12.08	-8.95	8	PASS
	2422/CH 3	-1.25	-10.49	-1.04	-10.28	-7.37	8	PASS
	2427/CH 4	-0.96	-10.20	-0.61	-9.85	-7.01	8	PASS
	2432/CH 5	-0.95	-10.19	0.21	-9.03	-6.56	8	PASS
	2437/CH 6	-0.85	-10.09	-0.05	-9.29	-6.66	8	PASS
	2442/CH 7	-0.33	-9.57	-0.22	-9.46	-6.50	8	PASS

	2447/CH 8	-0.49	-9.73	-0.05	-9.29	-6.49	8	PASS
	2452/CH 9	-1.77	-11.01	-2.13	-11.37	-8.18	8	PASS
	2457/CH 10	-3.01	-12.25	-3.18	-12.42	-9.32	8	PASS
	2462/CH 11	-3.47	-12.71	-3.84	-13.08	-9.88	8	PASS
802.11ax HE40	2422/CH 3	-8.97	-17.68	-8.63	-17.34	-14.50	8	PASS
	2427/CH 4	-7.89	-16.60	-6.90	-15.61	-13.07	8	PASS
	2432/CH 5	-5.53	-14.24	-5.62	-14.33	-11.27	8	PASS
	2437/CH 6	-4.86	-13.57	-4.64	-13.35	-10.45	8	PASS
	2442/CH 7	-5.68	-14.39	-5.14	-13.85	-11.10	8	PASS
	2447/CH 8	-5.44	-14.15	-6.09	-14.80	-11.45	8	PASS
	2452/CH 9	-6.74	-15.45	-7.16	-15.87	-12.64	8	PASS

Note: 1.Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*LOG10(3 / 30)

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD antenna 1B in dBm/10})}+10^{(\text{PSD antenna 2 in dBm/10})})$

3. The manufacturer declared that the directional gain = 4.06 <6dBi. So the PSD limit is 8 dBm.

Beamforming

Antenna 1A + Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion
		Antenna 1A		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	-0.55	-10.55	0.84	-9.16	-6.79	8	PASS
	2437/CH 6	1.10	-8.90	0.73	-9.27	-6.07	8	PASS
	2462/CH 11	2.10	-7.90	0.87	-9.13	-5.46	8	PASS
802.11g	2412/CH 1	-3.03	-12.72	-2.77	-12.46	-9.58	8	PASS
	2417/CH 2	-2.75	-12.44	-1.94	-11.63	-9.01	8	PASS
	2422/CH 3	-1.64	-11.33	-0.90	-10.59	-7.93	8	PASS
	2427/CH 4	-0.25	-9.94	0.25	-9.44	-6.67	8	PASS
	2437/CH 6	-0.21	-9.90	0.84	-8.85	-6.33	8	PASS
	2442/CH 7	-1.15	-10.84	-0.16	-9.85	-7.31	8	PASS
	2447/CH 8	-1.92	-11.61	-1.15	-10.84	-8.20	8	PASS
	2452/CH 9	-2.63	-12.32	-1.89	-11.58	-8.92	8	PASS
	2457/CH 10	-2.43	-12.12	-2.82	-12.51	-9.30	8	PASS
	2462/CH 11	-4.12	-13.81	-3.36	-13.05	-10.40	8	PASS
802.11n HT20	2412/CH 1	-3.56	-13.22	-3.23	-12.89	-10.04	8	PASS
	2417/CH 2	-2.80	-12.46	-2.30	-11.96	-9.19	8	PASS
	2422/CH 3	-1.49	-11.15	-1.37	-11.03	-8.08	8	PASS
	2427/CH 4	-0.24	-9.90	0.28	-9.38	-6.62	8	PASS
	2437/CH 6	0.06	-9.60	-0.37	-10.03	-6.80	8	PASS
	2442/CH 7	0.06	-9.60	-0.29	-9.95	-6.76	8	PASS
	2447/CH 8	-1.56	-11.22	-0.45	-10.11	-7.62	8	PASS
	2452/CH 9	-2.42	-12.08	-2.07	-11.73	-8.89	8	PASS
	2457/CH 10	-3.90	-13.56	-3.31	-12.97	-10.24	8	PASS
	2462/CH 11	-3.82	-13.48	-2.65	-12.31	-9.85	8	PASS
802.11n HT40	2422/CH 3	-9.30	-18.65	-8.08	-17.43	-14.99	8	PASS
	2427/CH 4	-8.57	-17.92	-6.93	-16.28	-14.01	8	PASS
	2432/CH 5	-5.48	-14.83	-4.20	-13.55	-11.13	8	PASS
	2437/CH 6	-5.66	-15.01	-5.06	-14.41	-11.69	8	PASS
	2442/CH 7	-5.37	-14.72	-5.14	-14.49	-11.59	8	PASS
	2447/CH 8	-6.65	-16.00	-5.32	-14.67	-12.27	8	PASS
	2452/CH 9	-7.17	-16.52	-5.69	-15.04	-12.71	8	PASS
802.11ax HE20	2412/CH 1	-4.08	-13.32	-4.12	-13.36	-10.33	8	PASS
	2417/CH 2	-3.53	-12.77	-3.23	-12.47	-9.61	8	PASS
	2422/CH 3	-2.61	-11.85	-1.47	-10.71	-8.23	8	PASS
	2427/CH 4	-1.66	-10.90	-0.66	-9.90	-7.36	8	PASS
	2432/CH 5	-0.45	-9.69	-0.28	-9.52	-6.59	8	PASS
	2437/CH 6	-0.70	-9.94	-0.30	-9.54	-6.73	8	PASS

	2442/CH 7	0.43	-8.81	-0.97	-10.21	-6.44	8	PASS
	2447/CH 8	-1.11	-10.35	-1.06	-10.30	-7.31	8	PASS
	2452/CH 9	-2.89	-12.13	-2.08	-11.32	-8.70	8	PASS
	2457/CH 10	-3.96	-13.20	-2.75	-11.99	-9.54	8	PASS
	2462/CH 11	-4.44	-13.68	-4.79	-14.03	-10.84	8	PASS
802.11ax HE40	2422/CH 3	-9.48	-18.19	-9.20	-17.91	-15.04	8	PASS
	2427/CH 4	-9.27	-17.98	-7.54	-16.25	-14.02	8	PASS
	2432/CH 5	-7.10	-15.81	-5.79	-14.50	-12.10	8	PASS
	2437/CH 6	-5.68	-14.39	-5.49	-14.20	-11.28	8	PASS
	2442/CH 7	-6.83	-15.54	-5.92	-14.63	-12.05	8	PASS
	2447/CH 8	-6.53	-15.24	-5.60	-14.31	-11.74	8	PASS
	2452/CH 9	-8.51	-17.22	-7.51	-16.22	-13.68	8	PASS

Note: 1.Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*LOG10(3 / 30)

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD antenna 1A in dBm/10})} + 10^{(\text{PSD antenna 2 in dBm/10})})$

3. The manufacturer declared that the directional gain = 4.06 <6dBi. So the PSD limit is 8 dBm.

Antenna 1B + Antenna 2

Test Mode	Carrier frequency (MHz))/ Channel	Power Spectral Density				Total PSD	Limit (dBm / 3kHz)	Conclu sion
		Antenna 1B		Antenna 2				
		Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	(dBm / 3kHz)		
802.11b	2412/CH 1	-0.77	-10.77	0.80	-9.20	-6.90	8	PASS
	2437/CH 6	0.28	-9.72	0.52	-9.48	-6.59	8	PASS
	2462/CH 11	2.07	-7.93	0.79	-9.21	-5.51	8	PASS
802.11g	2412/CH 1	-1.87	-11.56	-2.67	-12.36	-8.93	8	PASS
	2417/CH 2	-1.45	-11.14	-1.39	-11.08	-8.10	8	PASS
	2422/CH 3	-0.32	-10.01	-0.85	-10.54	-7.26	8	PASS
	2427/CH 4	-0.62	-10.31	0.16	-9.53	-6.89	8	PASS
	2437/CH 6	0.93	-8.76	0.51	-9.18	-5.95	8	PASS
	2442/CH 7	-0.10	-9.79	-0.62	-10.31	-7.03	8	PASS
	2447/CH 8	-1.05	-10.74	-1.16	-10.85	-7.78	8	PASS
	2452/CH 9	-1.30	-10.99	-2.01	-11.70	-8.32	8	PASS
	2457/CH 10	-2.14	-11.83	-2.40	-12.09	-8.95	8	PASS
	2462/CH 11	-3.32	-13.01	-3.86	-13.55	-10.26	8	PASS
802.11n HT20	2412/CH 1	-2.99	-12.65	-2.37	-12.03	-9.32	8	PASS
	2417/CH 2	-1.81	-11.47	-2.35	-12.01	-8.72	8	PASS
	2422/CH 3	-0.68	-10.34	-1.29	-10.95	-7.62	8	PASS
	2427/CH 4	-0.91	-10.57	0.21	-9.45	-6.96	8	PASS
	2437/CH 6	-0.28	-9.94	-0.11	-9.77	-6.84	8	PASS
	2442/CH 7	0.16	-9.50	0.07	-9.59	-6.53	8	PASS
	2447/CH 8	-0.83	-10.49	-0.44	-10.10	-7.28	8	PASS
	2452/CH 9	-1.18	-10.84	-2.09	-11.75	-8.26	8	PASS
	2457/CH 10	-2.58	-12.24	-2.48	-12.14	-9.18	8	PASS
	2462/CH 11	-3.53	-13.19	-3.53	-13.19	-10.18	8	PASS
802.11n HT40	2422/CH 3	-8.16	-17.51	-8.49	-17.84	-14.66	8	PASS
	2427/CH 4	-7.74	-17.09	-6.15	-15.50	-13.21	8	PASS
	2432/CH 5	-4.81	-14.16	-5.26	-14.61	-11.37	8	PASS
	2437/CH 6	-4.00	-13.35	-4.62	-13.97	-10.64	8	PASS
	2442/CH 7	-5.04	-14.39	-4.90	-14.25	-11.31	8	PASS
	2447/CH 8	-5.45	-14.80	-5.20	-14.55	-11.66	8	PASS
	2452/CH 9	-6.64	-15.99	-5.87	-15.22	-12.58	8	PASS
802.11ax HE20	2412/CH 1	-3.88	-13.12	-3.98	-13.22	-10.16	8	PASS
	2417/CH 2	-2.46	-11.70	-3.31	-12.55	-9.09	8	PASS
	2422/CH 3	-1.44	-10.68	-2.00	-11.24	-7.94	8	PASS
	2427/CH 4	-0.25	-9.49	-0.11	-9.35	-6.41	8	PASS
	2432/CH 5	-0.76	-10.00	-0.27	-9.51	-6.74	8	PASS
	2437/CH 6	-1.08	-10.32	-0.12	-9.36	-6.80	8	PASS
	2442/CH 7	-0.13	-9.37	-1.12	-10.36	-6.83	8	PASS

	2447/CH 8	-1.04	-10.28	-0.43	-9.67	-6.95	8	PASS
	2452/CH 9	-2.25	-11.49	-1.70	-10.94	-8.20	8	PASS
	2457/CH 10	-3.34	-12.58	-2.96	-12.20	-9.38	8	PASS
	2462/CH 11	-3.82	-13.06	-4.12	-13.36	-10.20	8	PASS
802.11ax HE40	2422/CH 3	-9.18	-17.89	-8.69	-17.40	-14.63	8	PASS
	2427/CH 4	-8.07	-16.78	-7.95	-16.66	-13.71	8	PASS
	2432/CH 5	-5.56	-14.27	-5.77	-14.48	-11.36	8	PASS
	2437/CH 6	-5.40	-14.11	-5.03	-13.74	-10.91	8	PASS
	2442/CH 7	-5.61	-14.32	-5.58	-14.29	-11.29	8	PASS
	2447/CH 8	-4.96	-13.67	-4.82	-13.53	-10.59	8	PASS
	2452/CH 9	-7.71	-16.42	-6.33	-15.04	-12.67	8	PASS

Note: 1. Power Spectral Density (dBm/3kHz) = Read Value + Duty cycle correction factor + $10 \cdot \log_{10}(3 / 30)$

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density = $10 \log(10^{(\text{PSD antenna 1B in dBm/10})} + 10^{(\text{PSD antenna 2 in dBm/10})})$

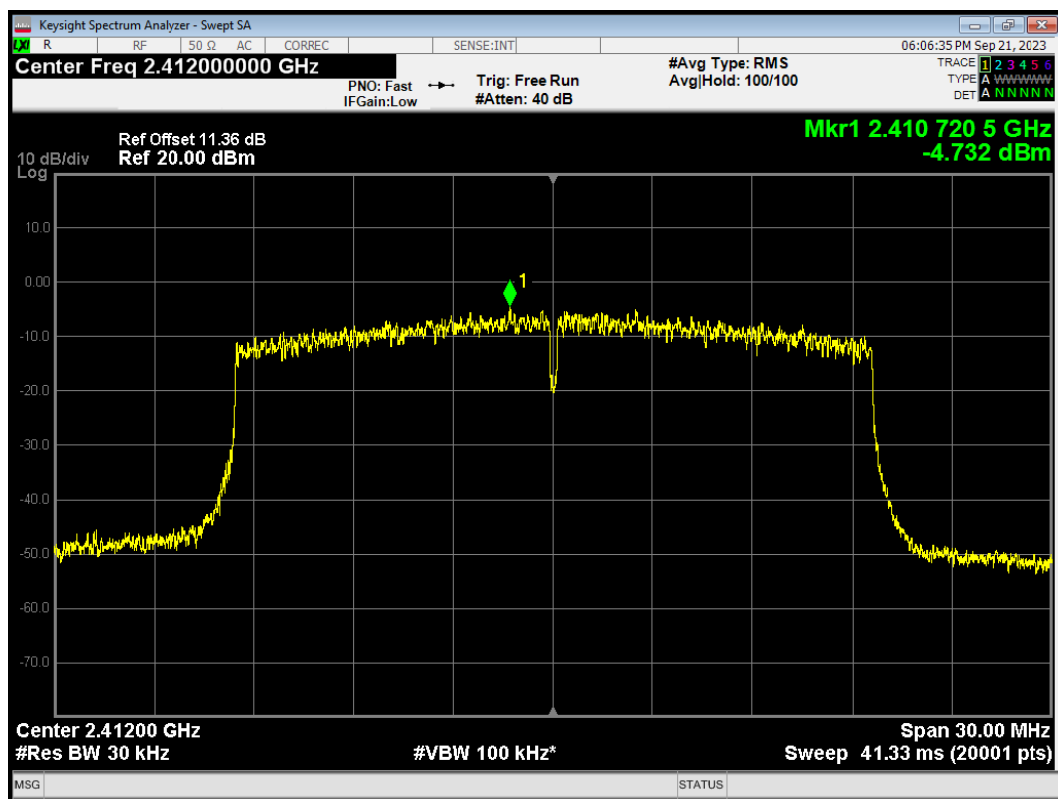
3. The manufacturer declared that the directional gain = 4.06 < 6dBi. So the PSD limit is 8 dBm.

AOT

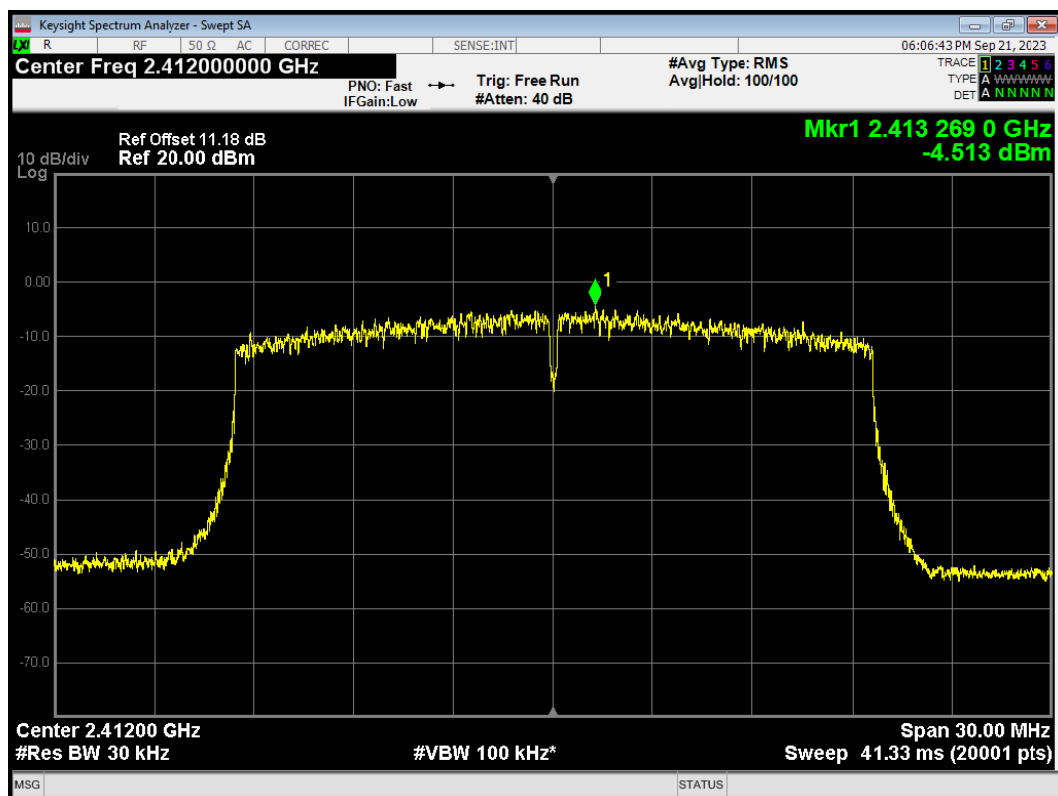
MIMO

Antenna 1A + Antenna 2

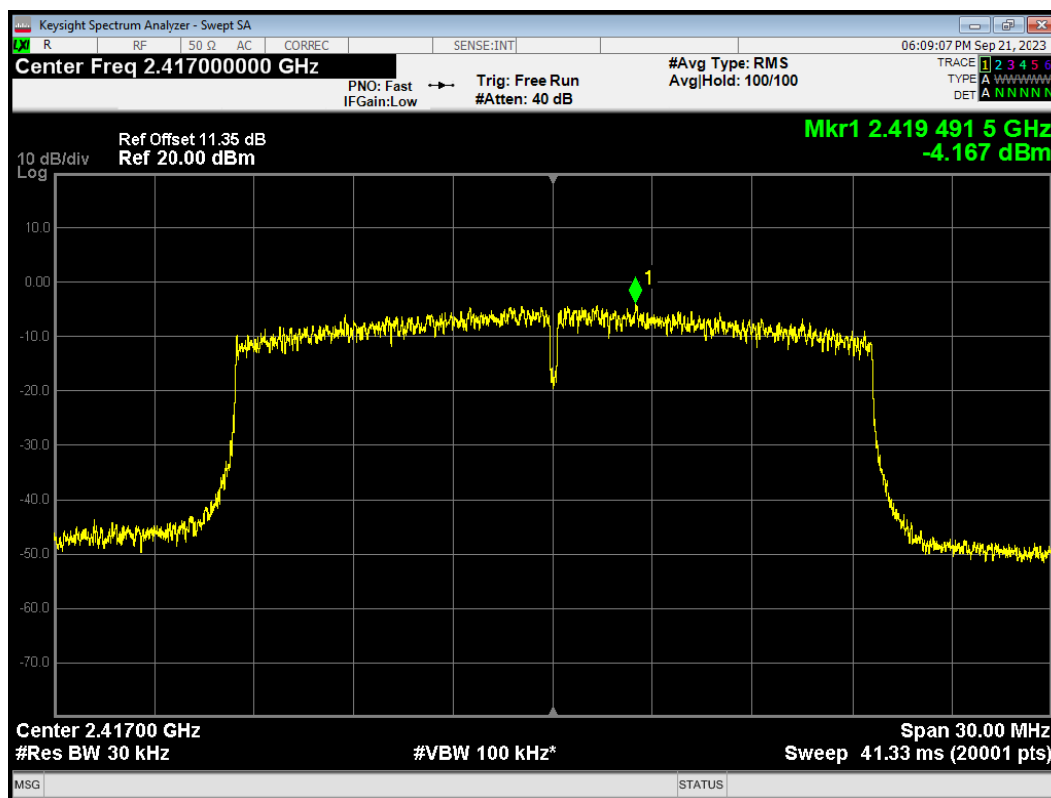
PSD 802.11ax(HE20) 2412MHz Ant1A



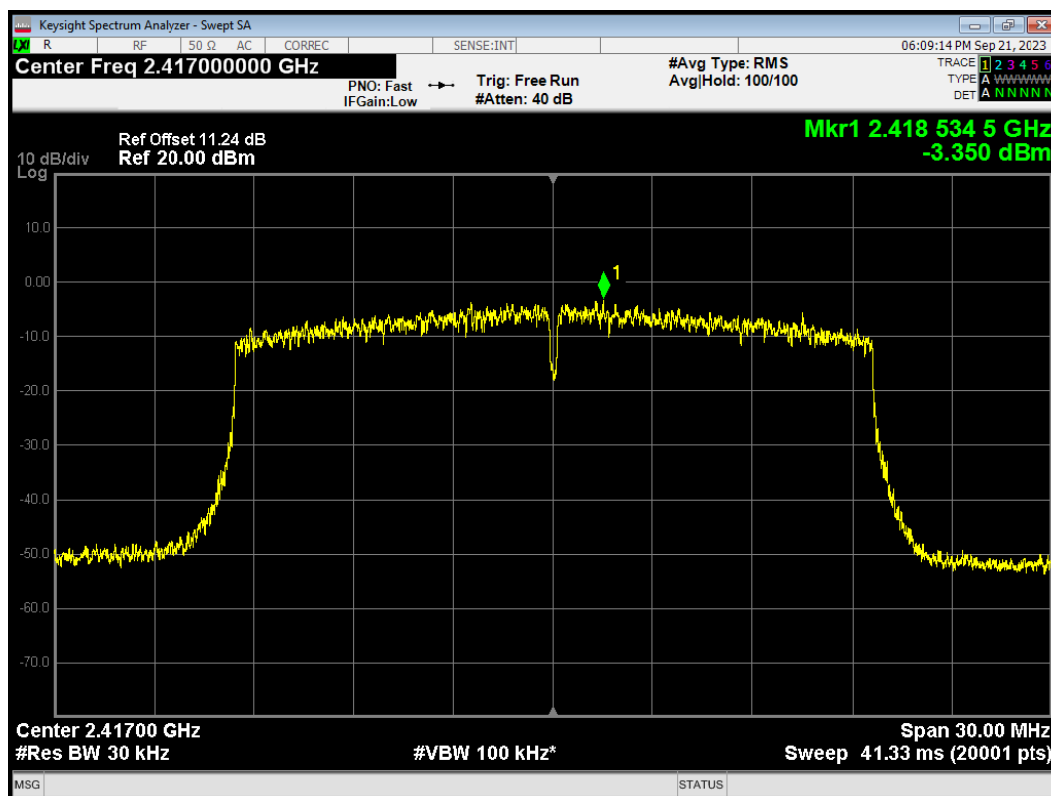
PSD 802.11ax(HE20) 2412MHz Ant2



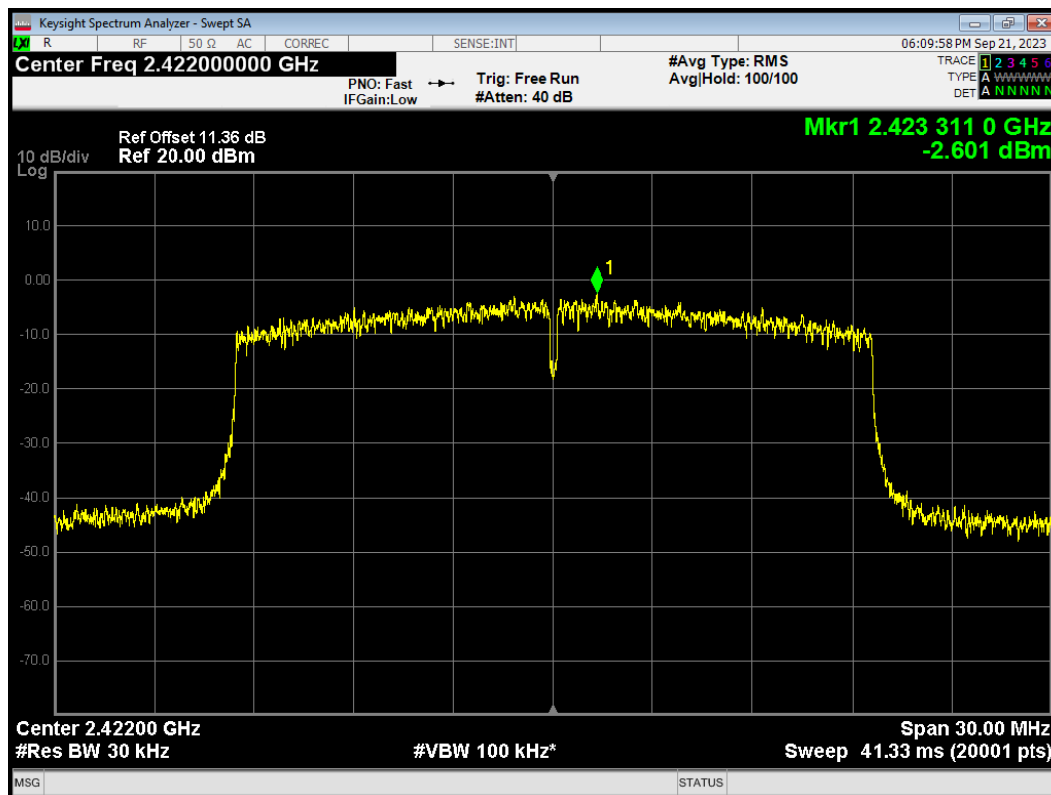
PSD 802.11ax(HE20) 2417MHz Ant1A



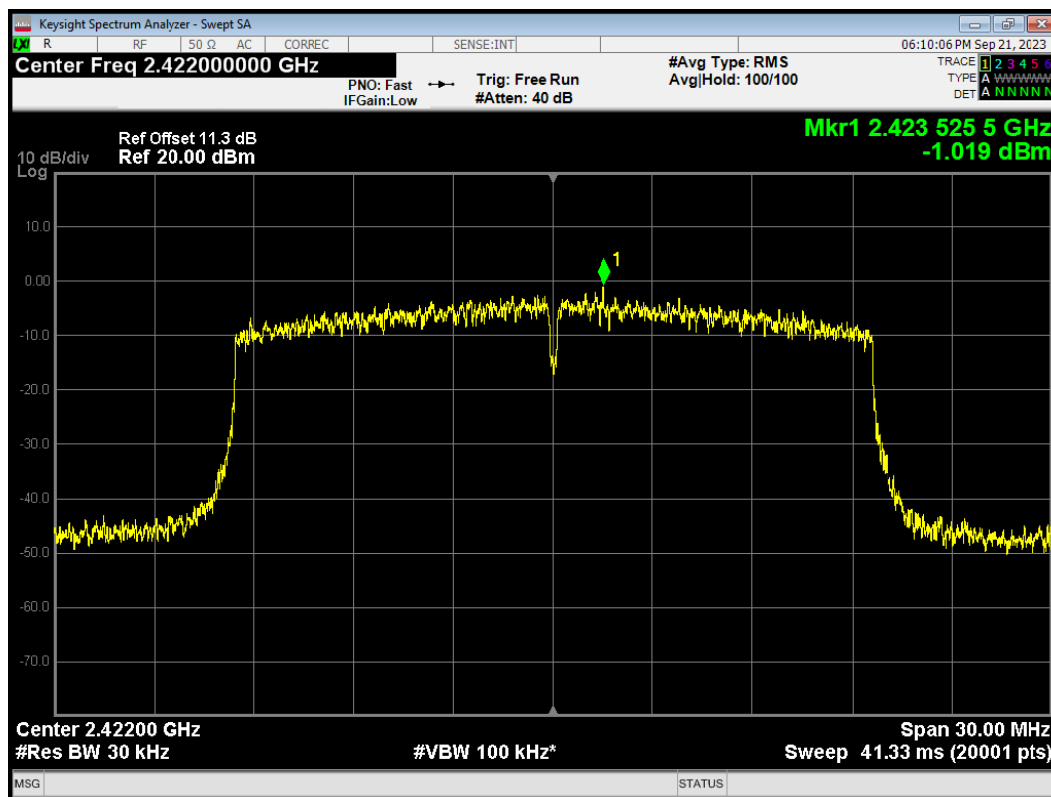
PSD 802.11ax(HE20) 2417MHz Ant2



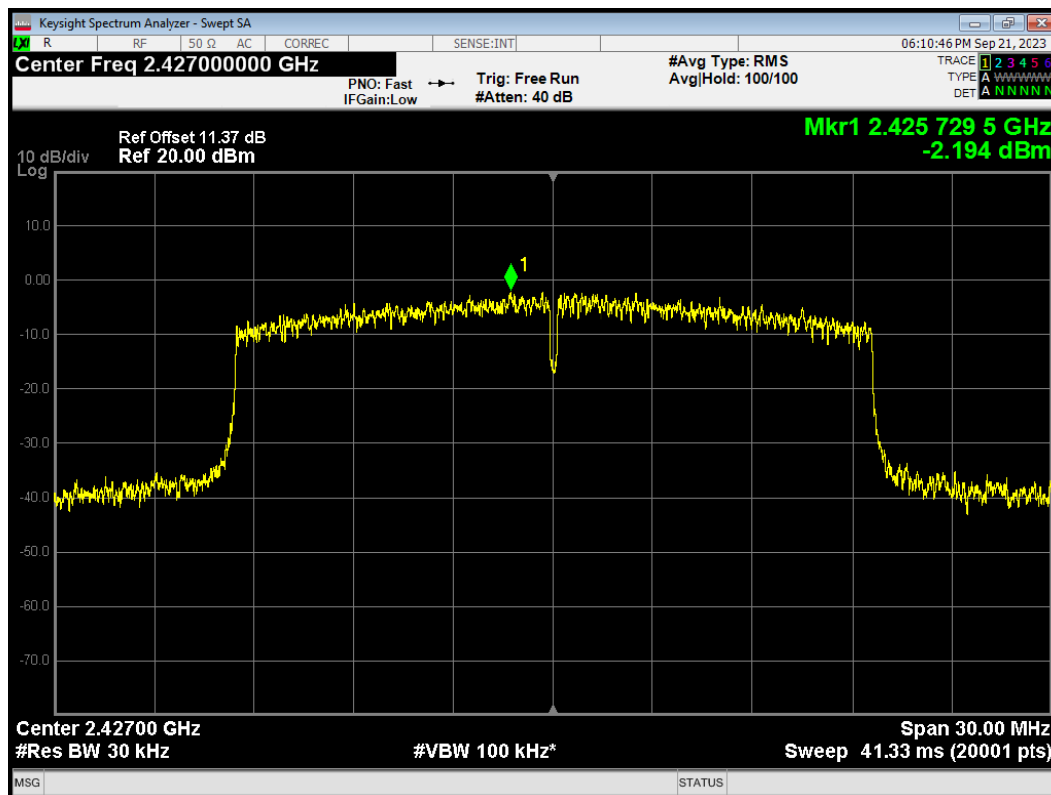
PSD 802.11ax(HE20) 2422MHz Ant1A



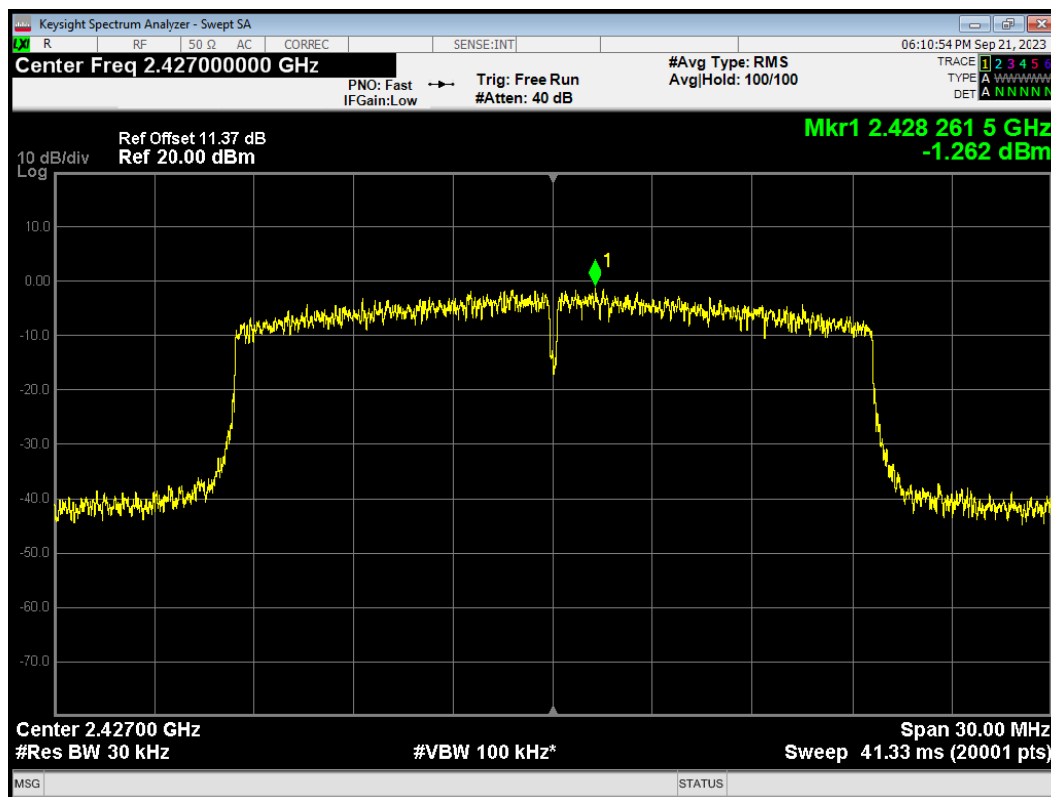
PSD 802.11ax(HE20) 2422MHz Ant2



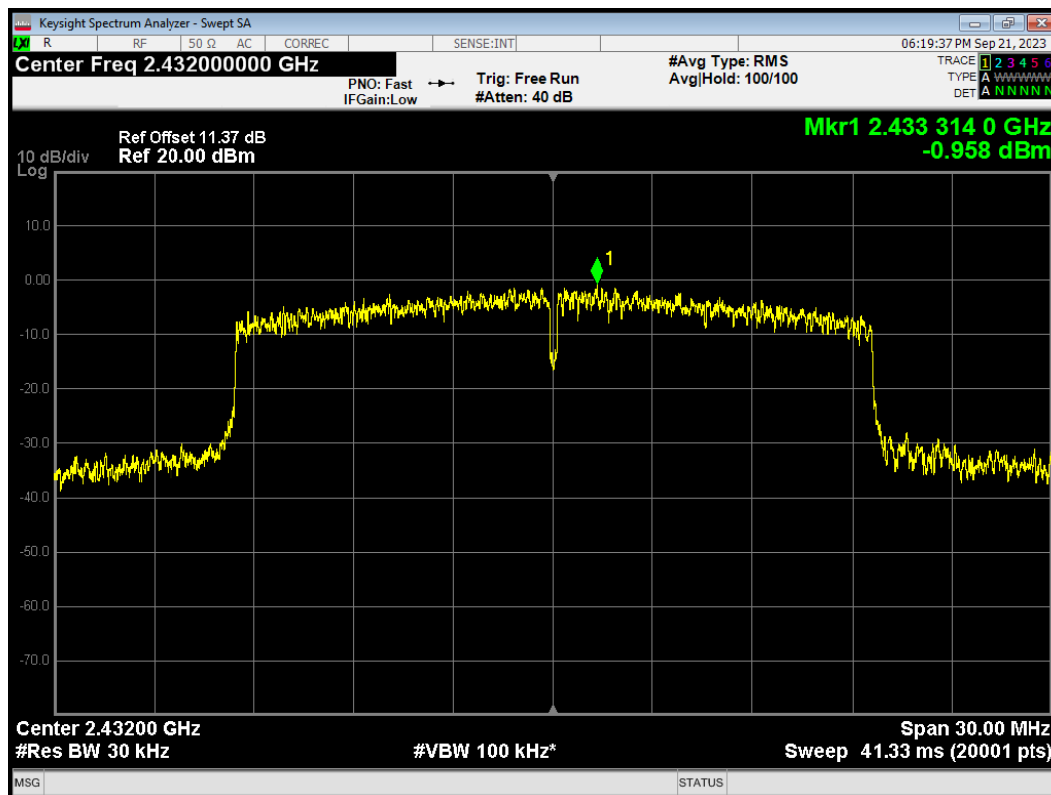
PSD 802.11ax(HE20) 2427MHz Ant1A



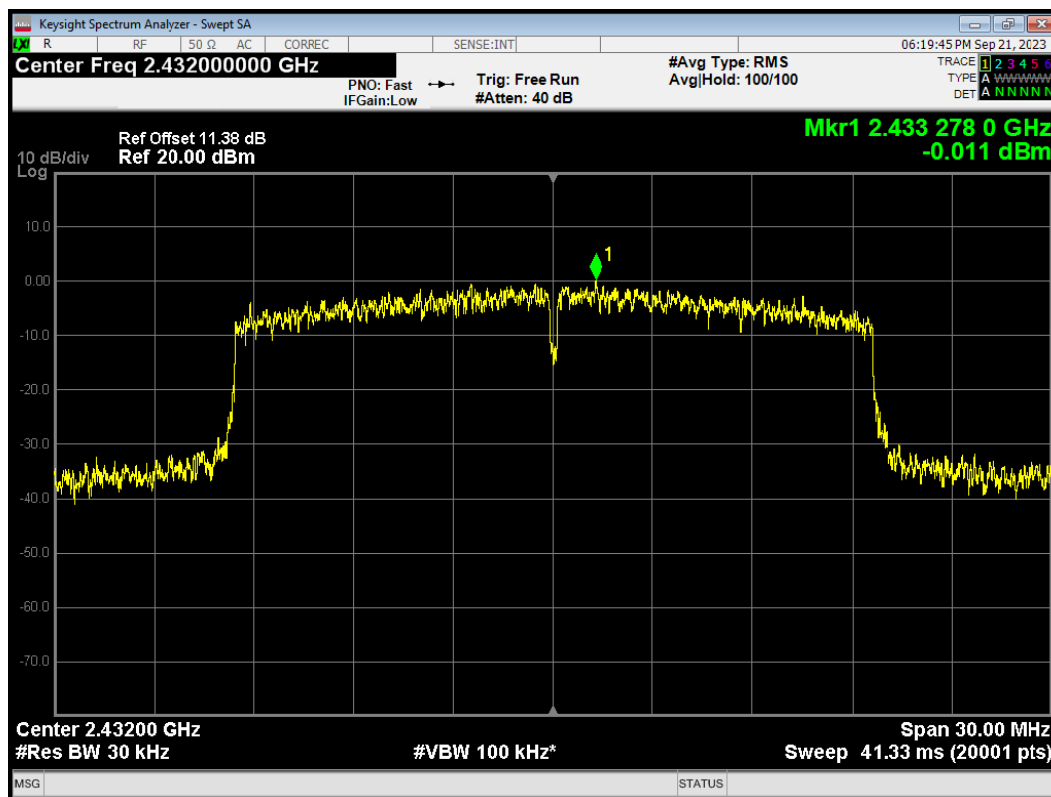
PSD 802.11ax(HE20) 2427MHz Ant2



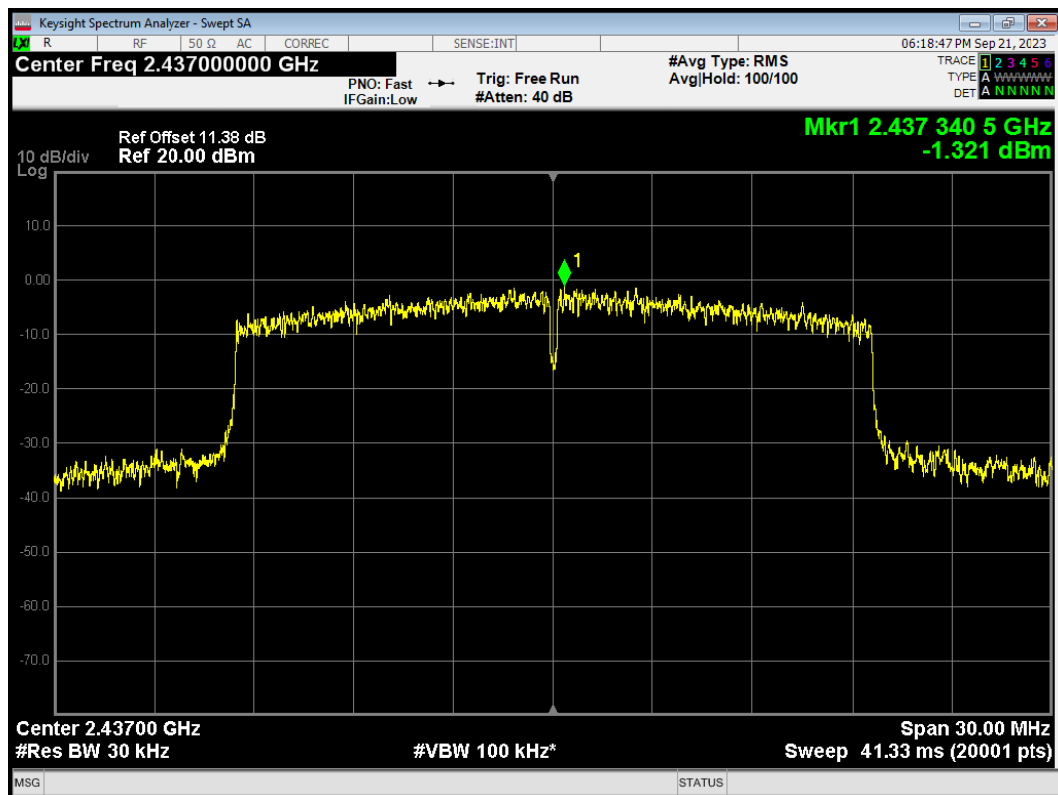
PSD 802.11ax(HE20) 2432MHz Ant1A



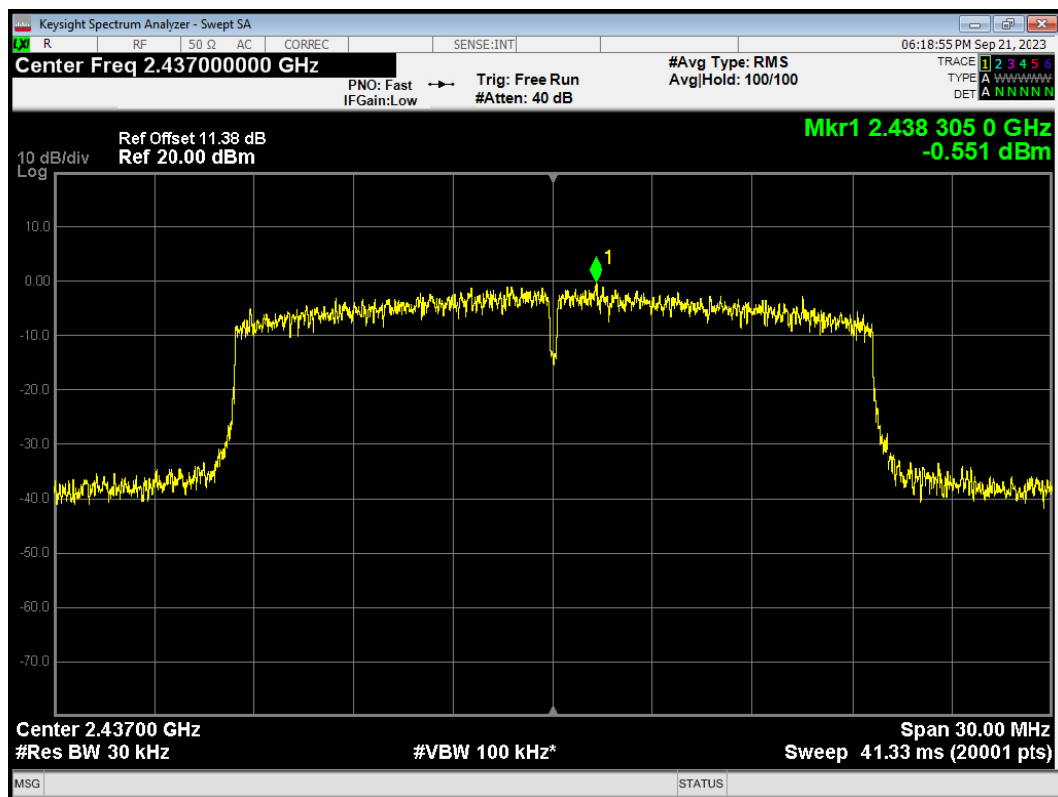
PSD 802.11ax(HE20) 2432MHz Ant2



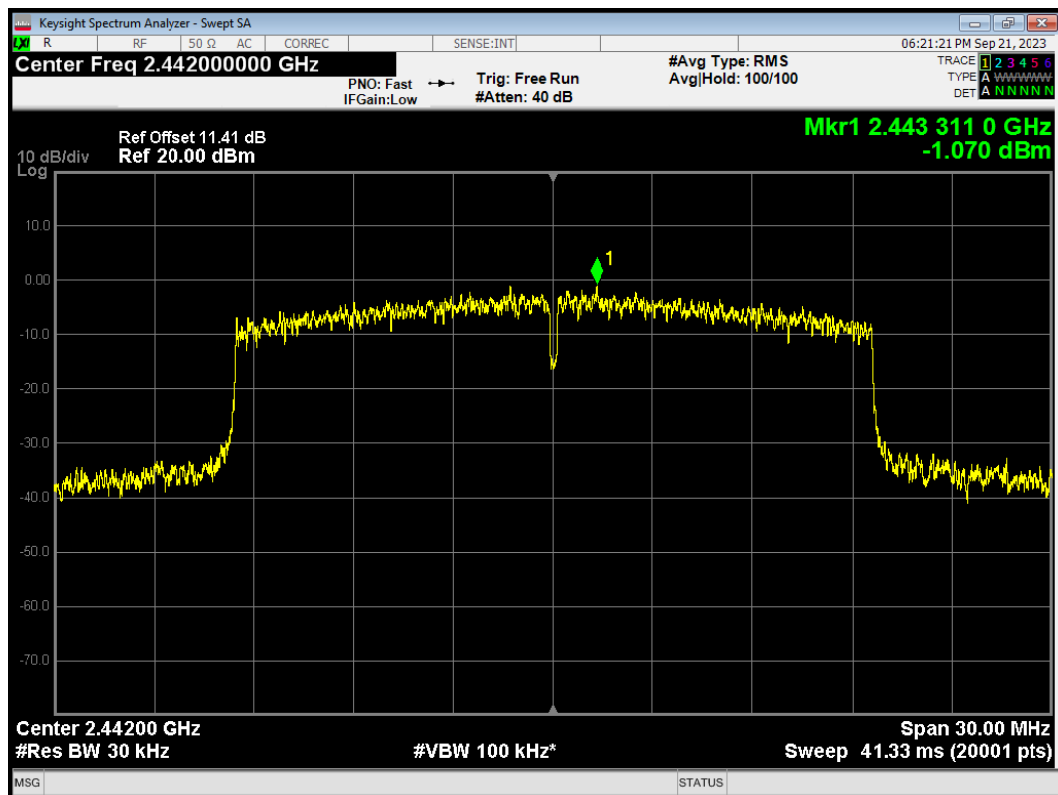
PSD 802.11ax(HE20) 2437MHz Ant1A



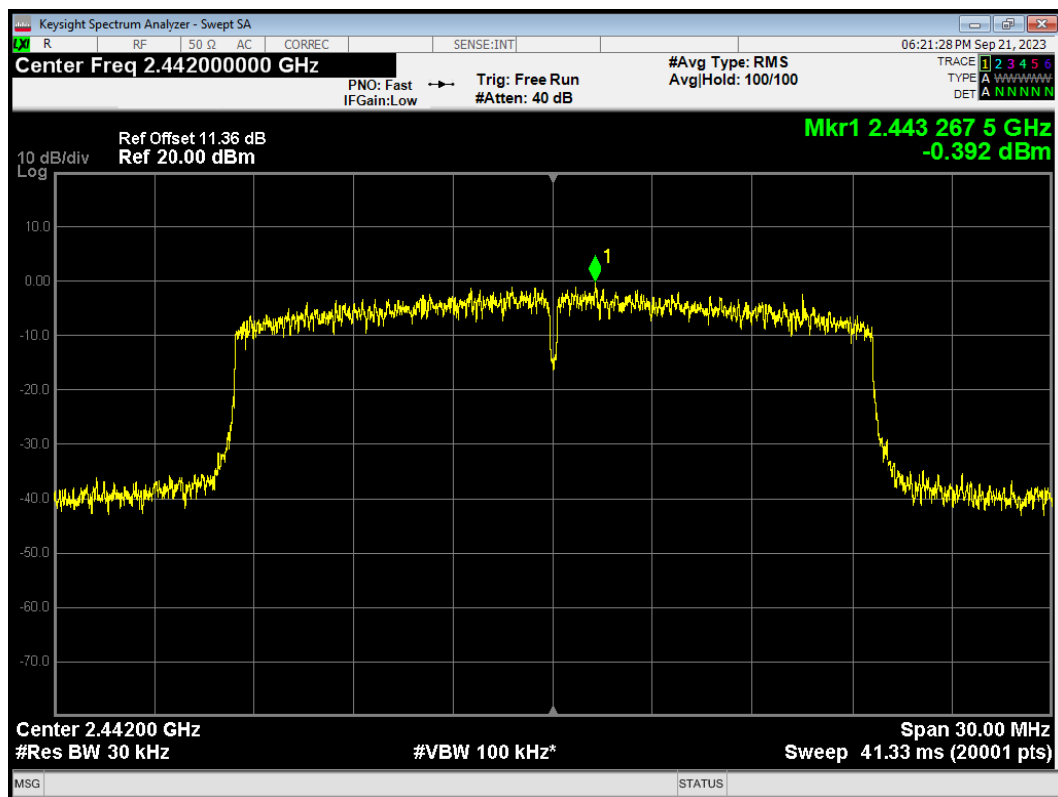
PSD 802.11ax(HE20) 2437MHz Ant2



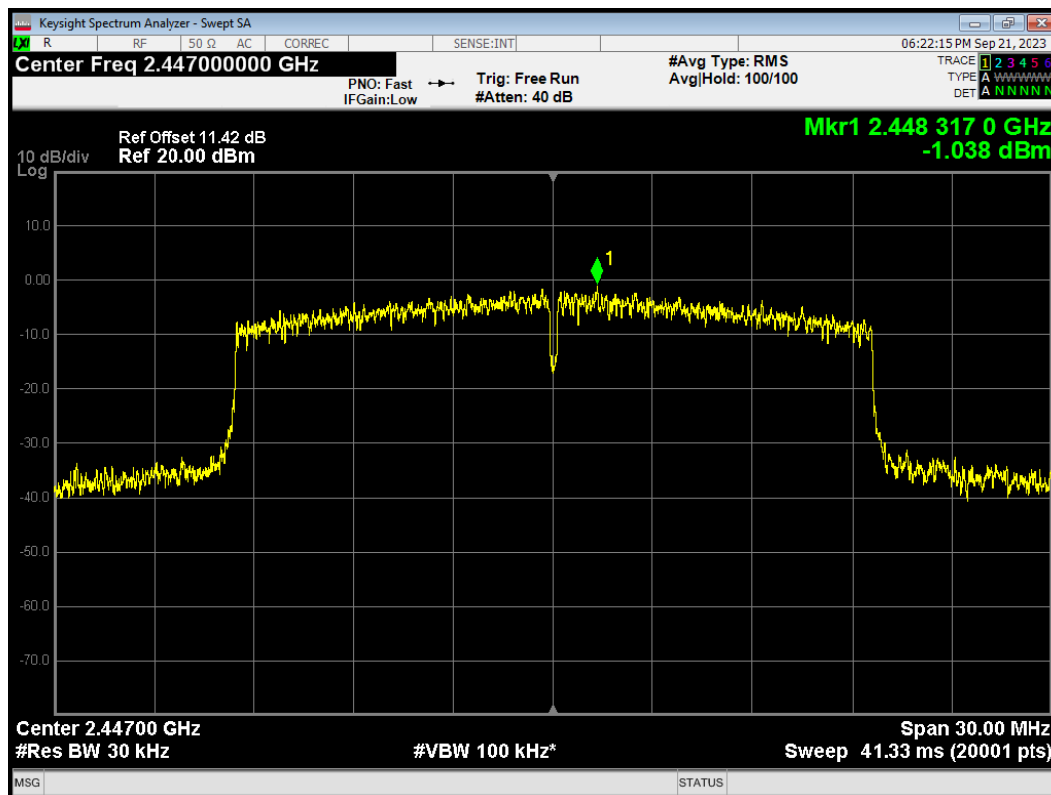
PSD 802.11ax(HE20) 2442MHz Ant1A



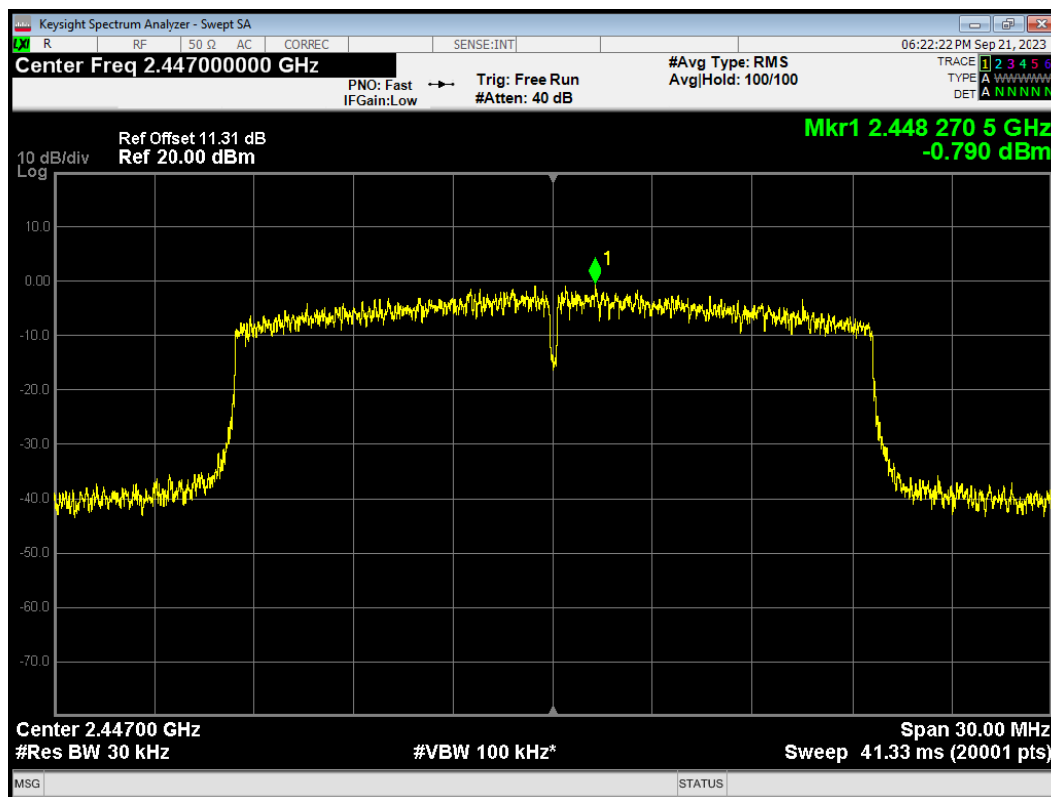
PSD 802.11ax(HE20) 2442MHz Ant2



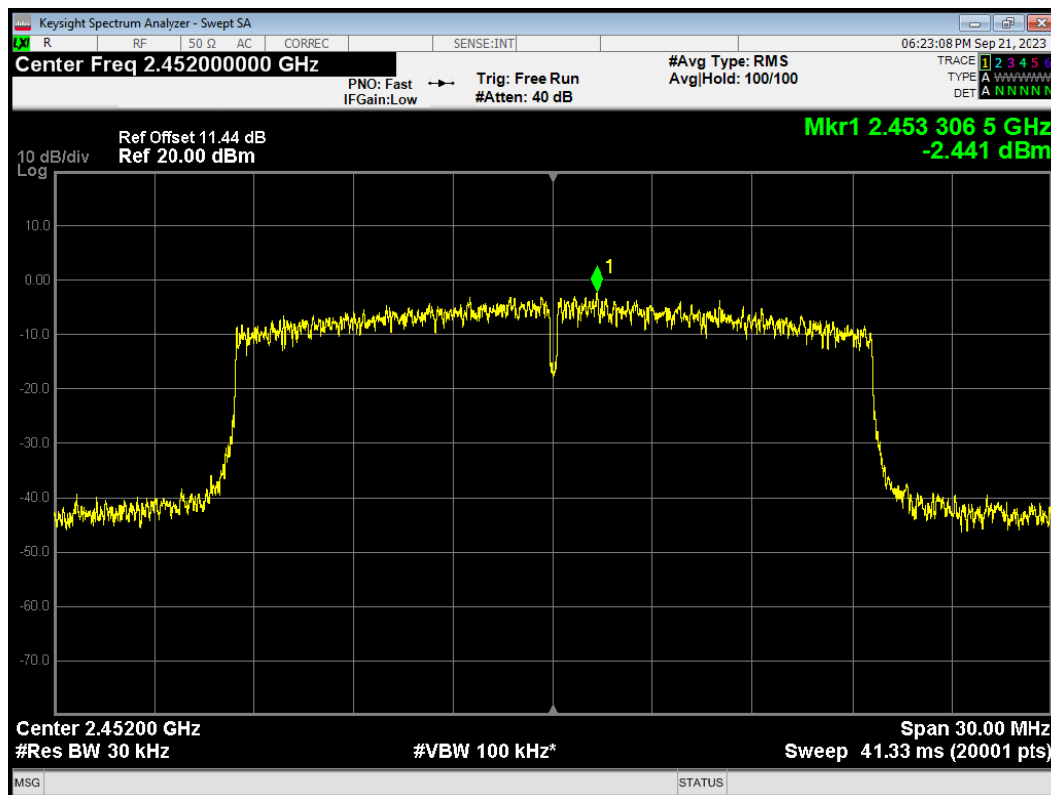
PSD 802.11ax(HE20) 2447MHz Ant1A



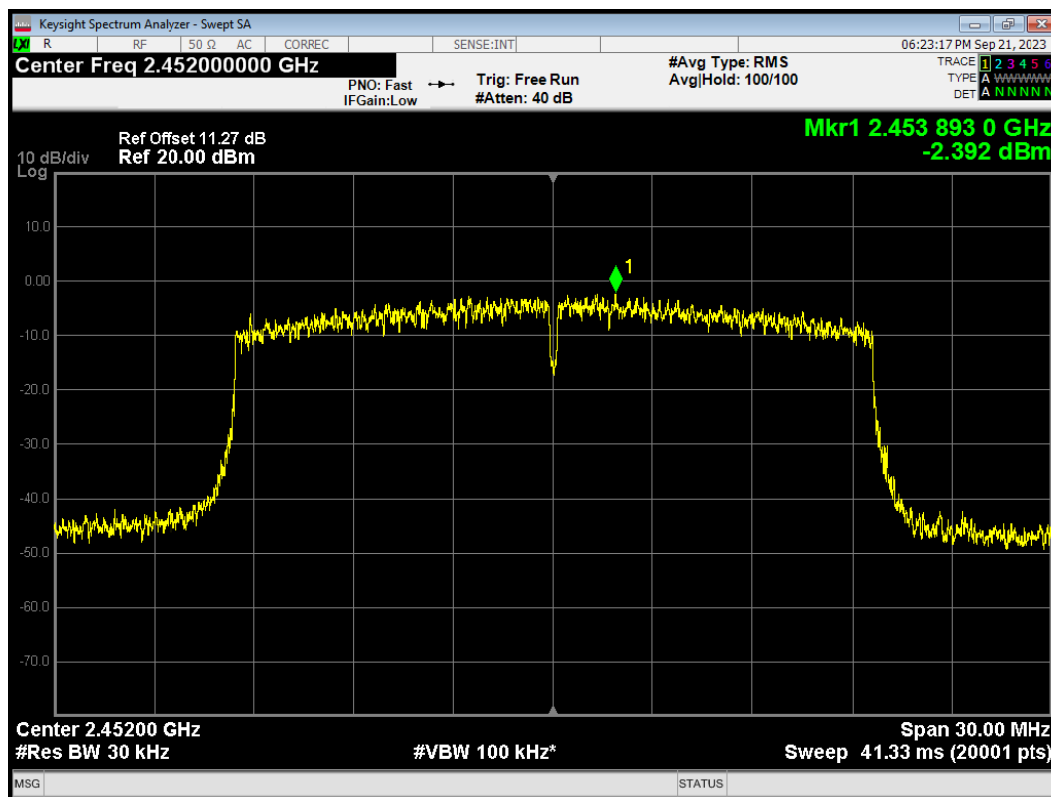
PSD 802.11ax(HE20) 2447MHz Ant2



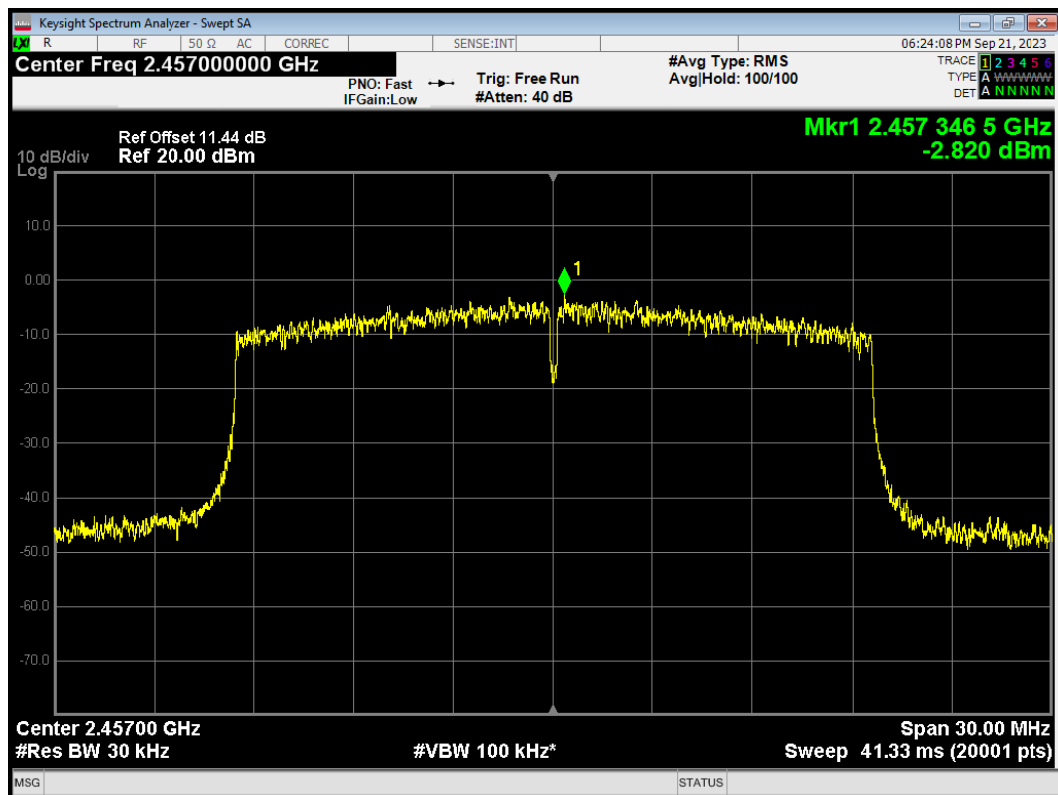
PSD 802.11ax(HE20) 2452MHz Ant1A



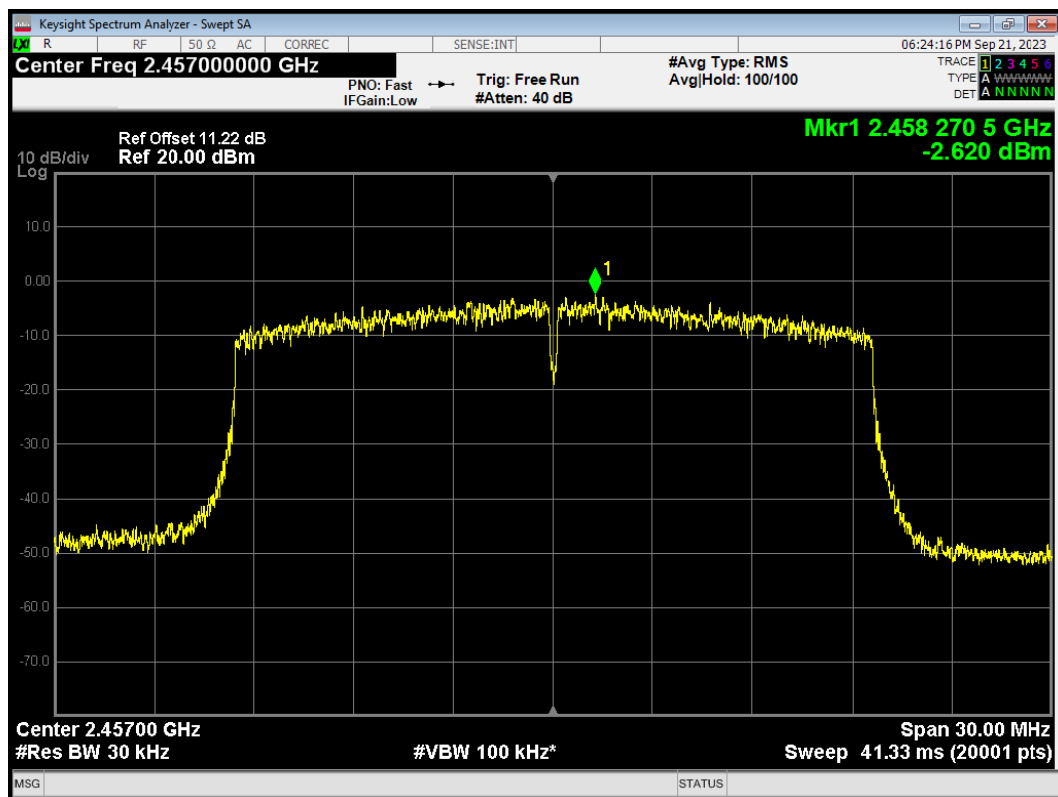
PSD 802.11ax(HE20) 2452MHz Ant2



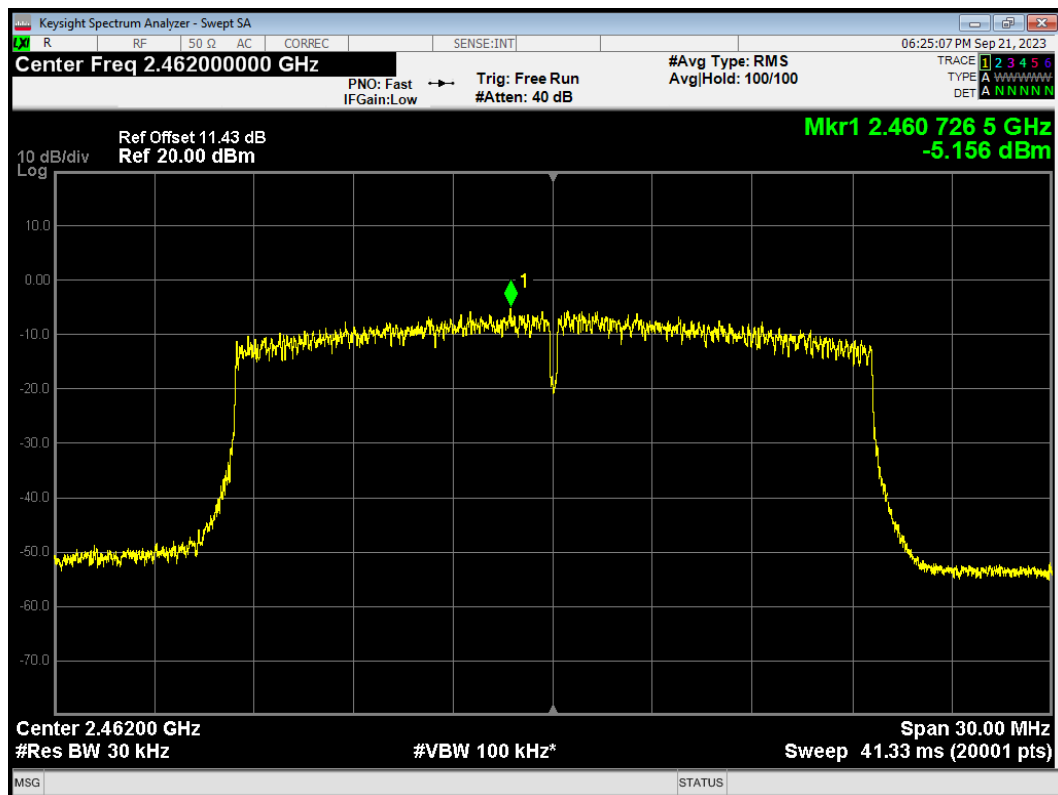
PSD 802.11ax(HE20) 2457MHz Ant1A



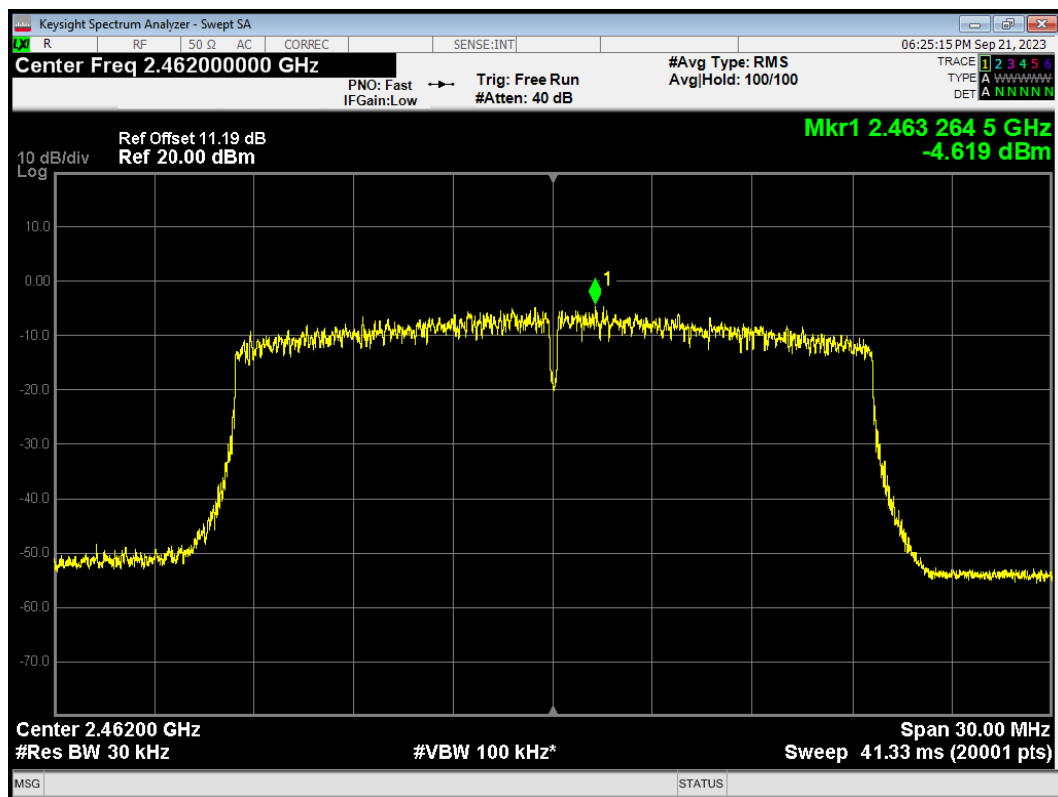
PSD 802.11ax(HE20) 2457MHz Ant2



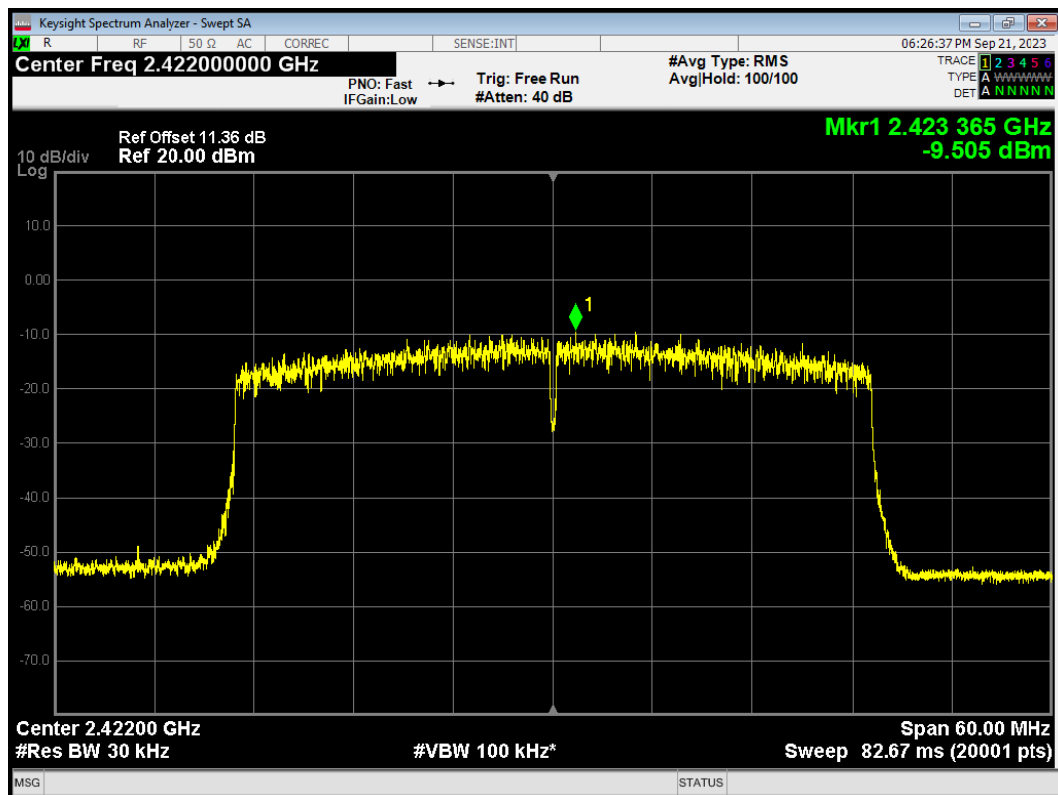
PSD 802.11ax(HE20) 2462MHz Ant1A



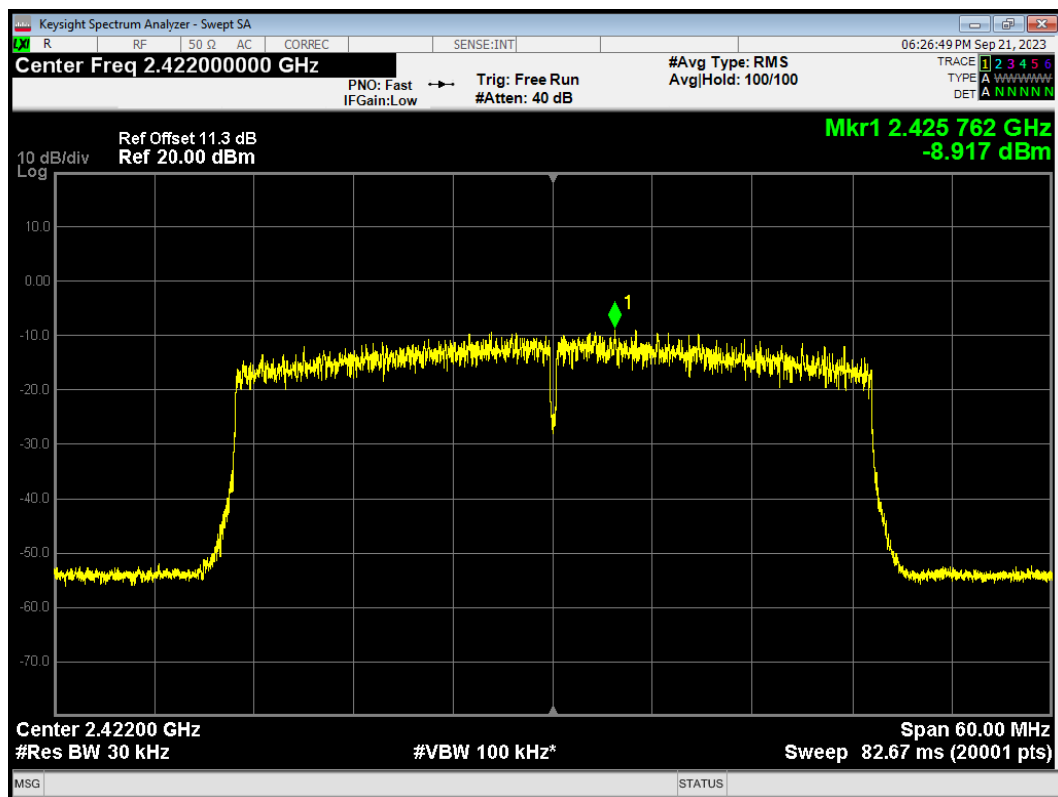
PSD 802.11ax(HE20) 2462MHz Ant2



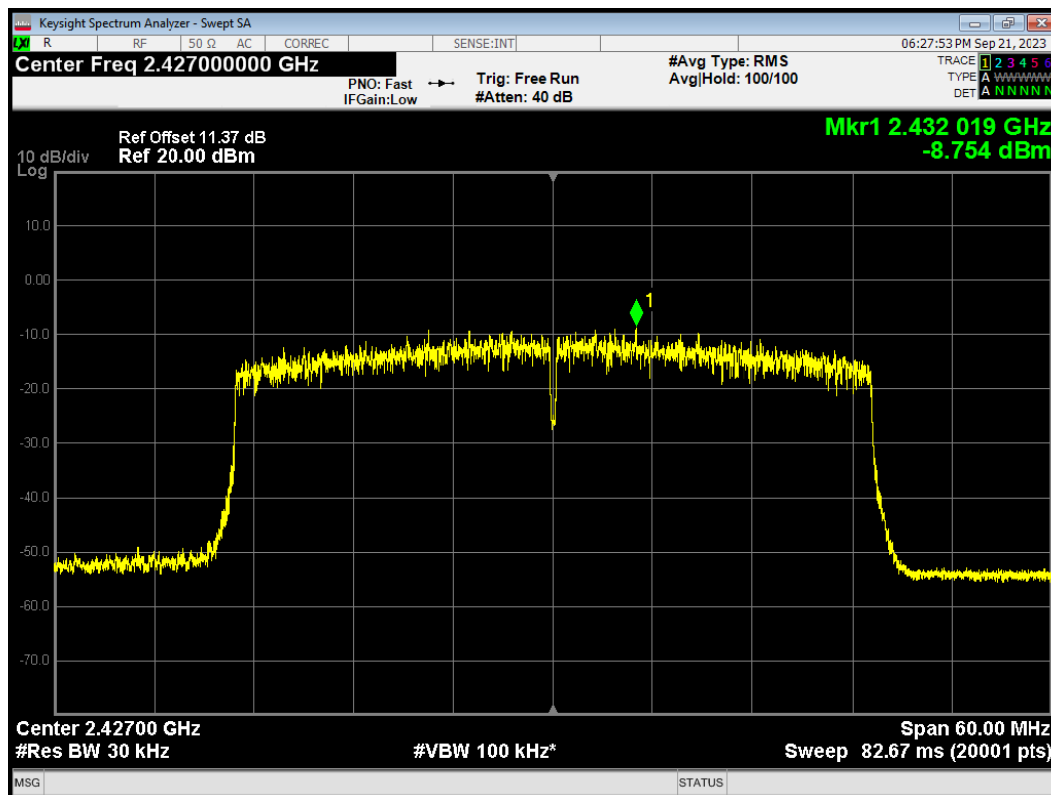
PSD 802.11ax(HE40) 2422MHz Ant1A



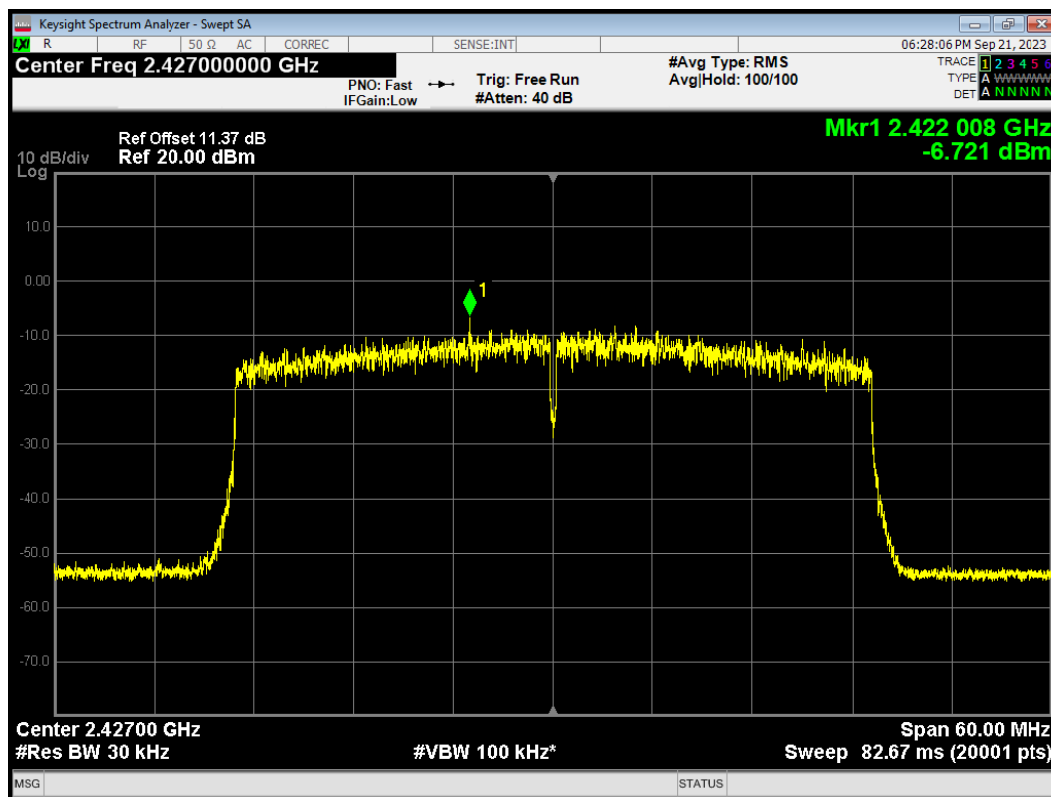
PSD 802.11ax(HE40) 2422MHz Ant2



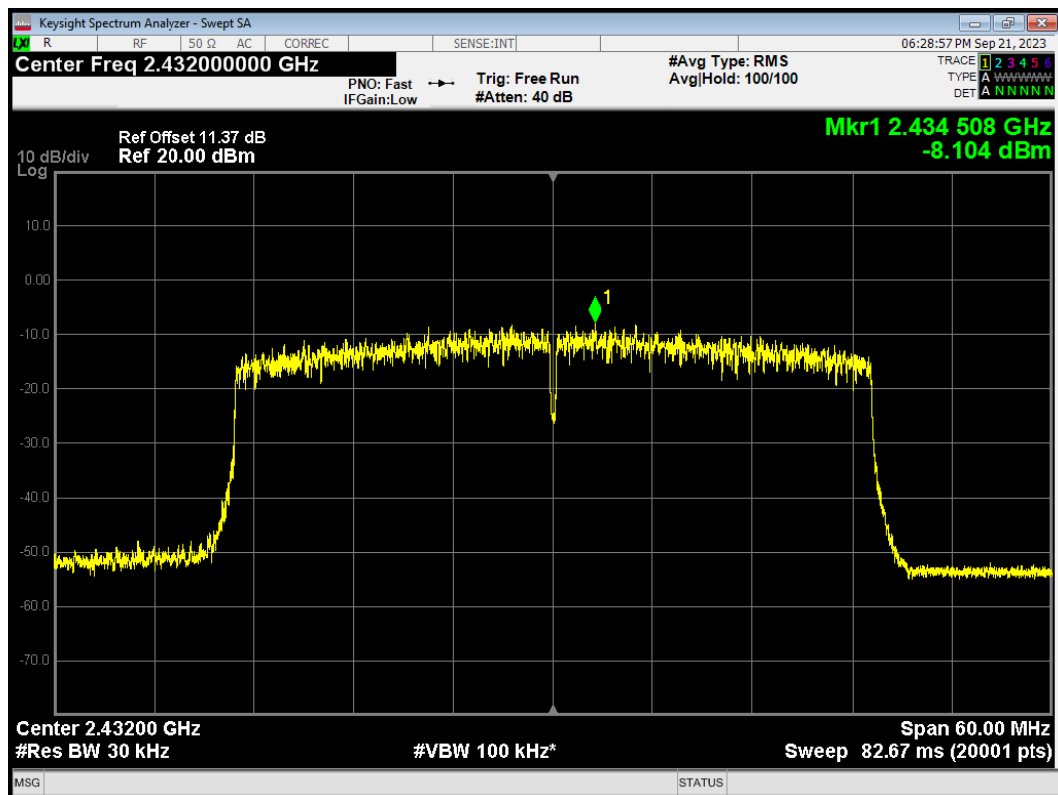
PSD 802.11ax(HE40) 2427MHz Ant1A



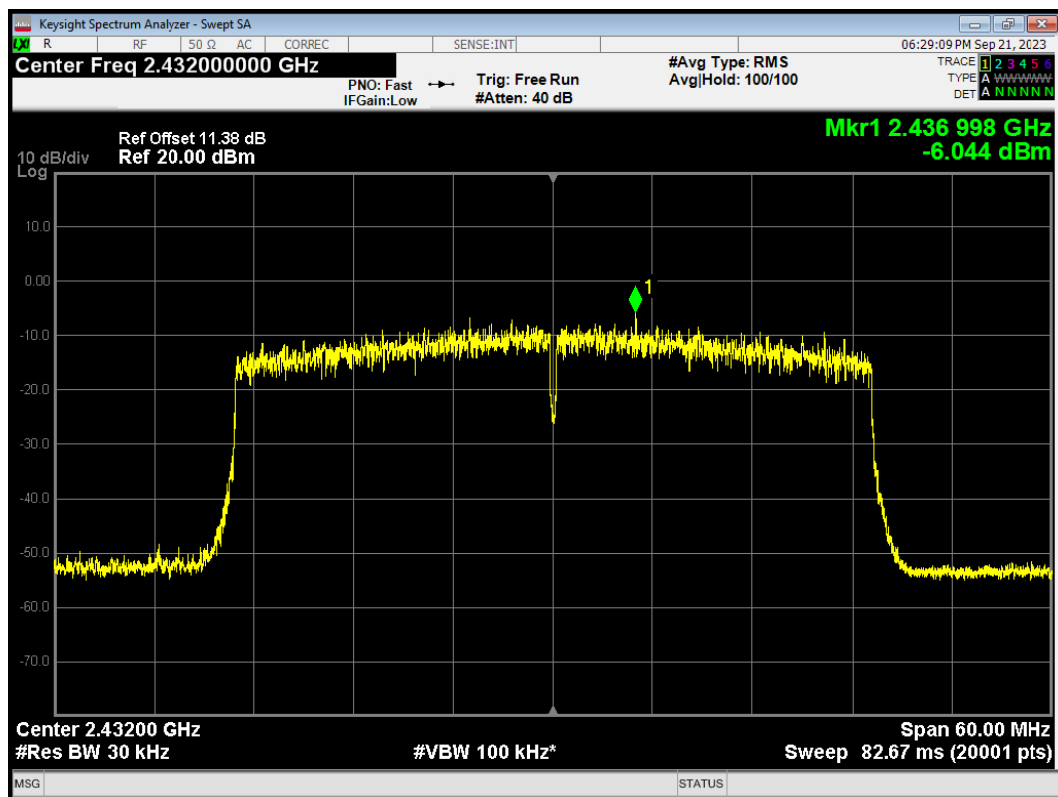
PSD 802.11ax(HE40) 2427MHz Ant2



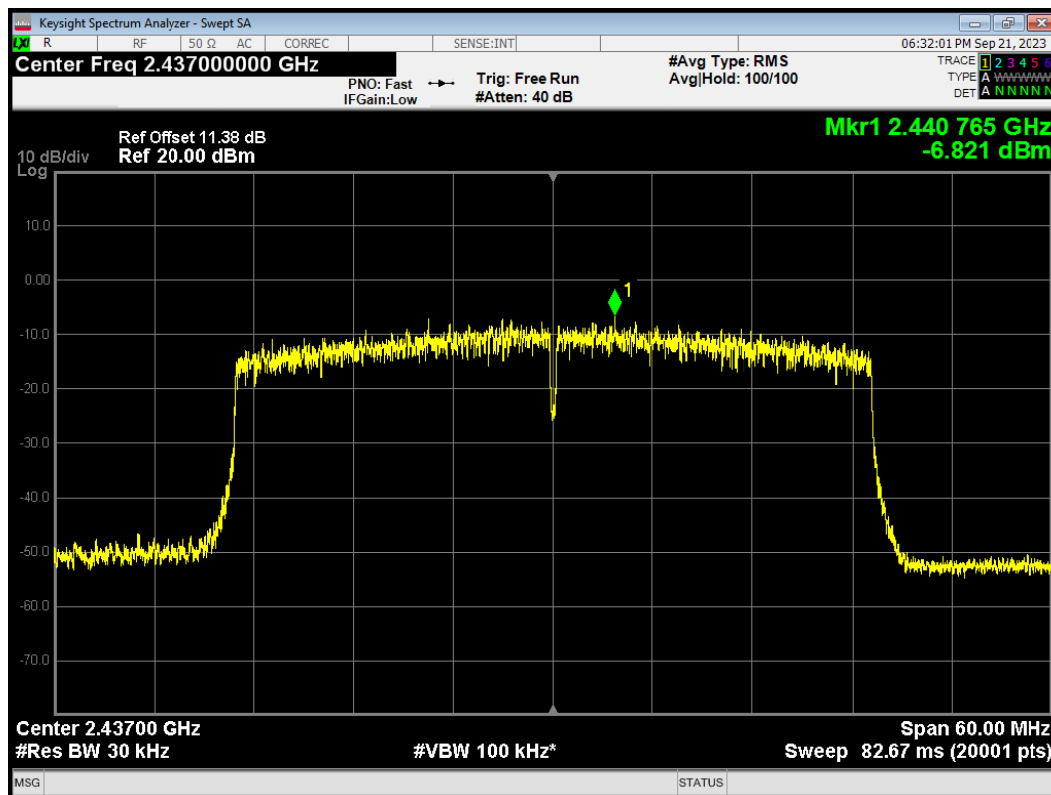
PSD 802.11ax(HE40) 2432MHz Ant1A



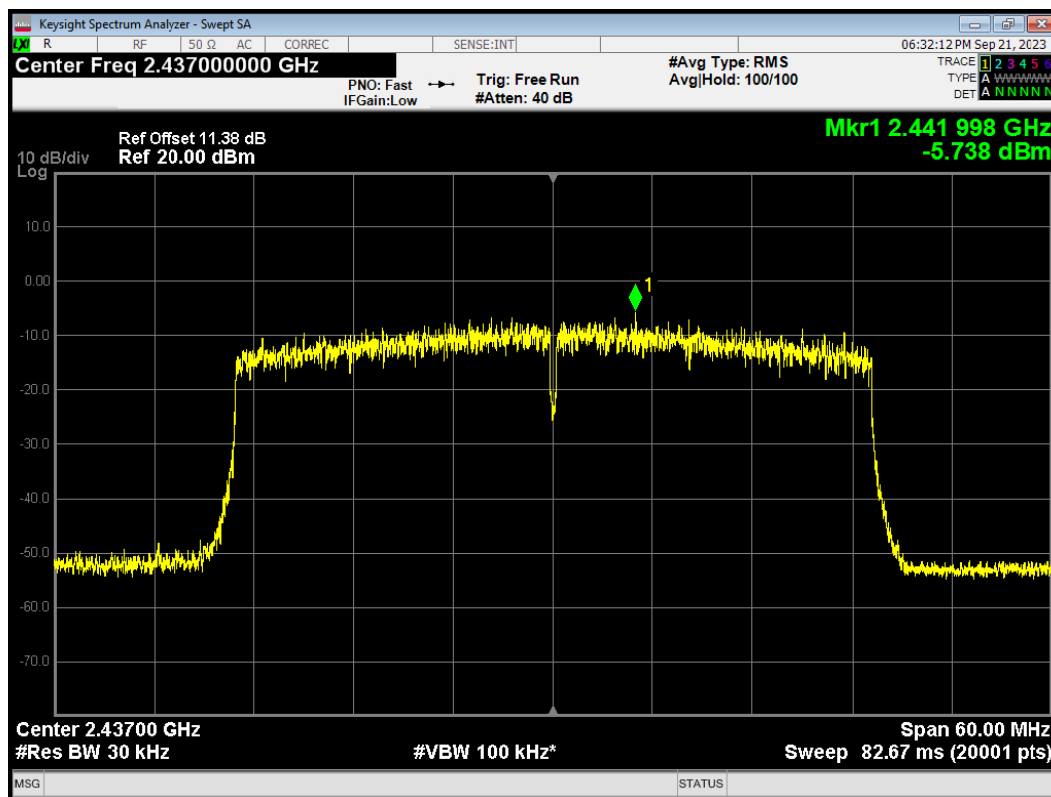
PSD 802.11ax(HE40) 2432MHz Ant2



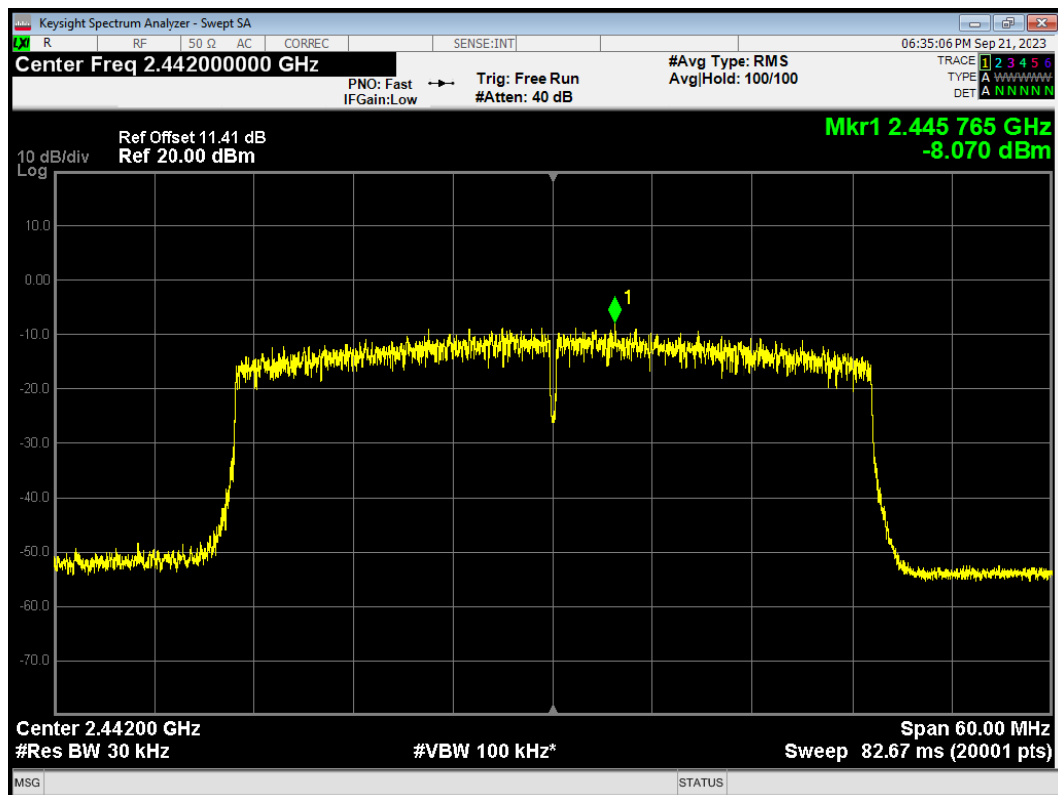
PSD 802.11ax(HE40) 2437MHz Ant1A



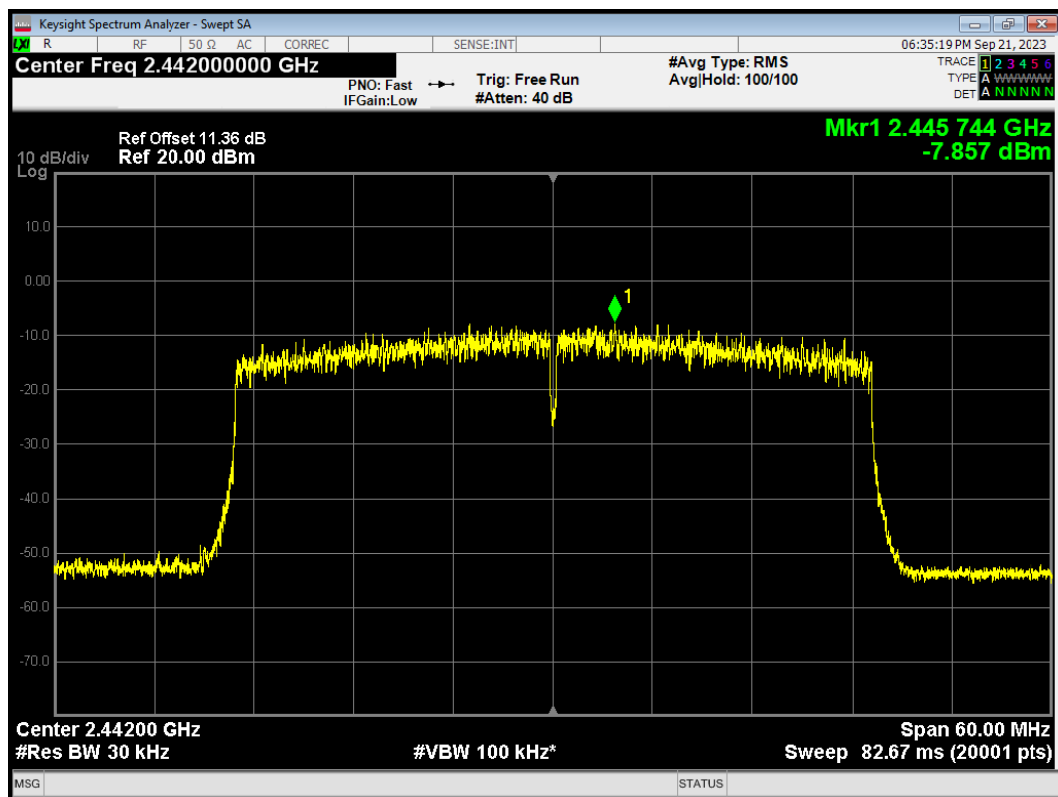
PSD 802.11ax(HE40) 2437MHz Ant2



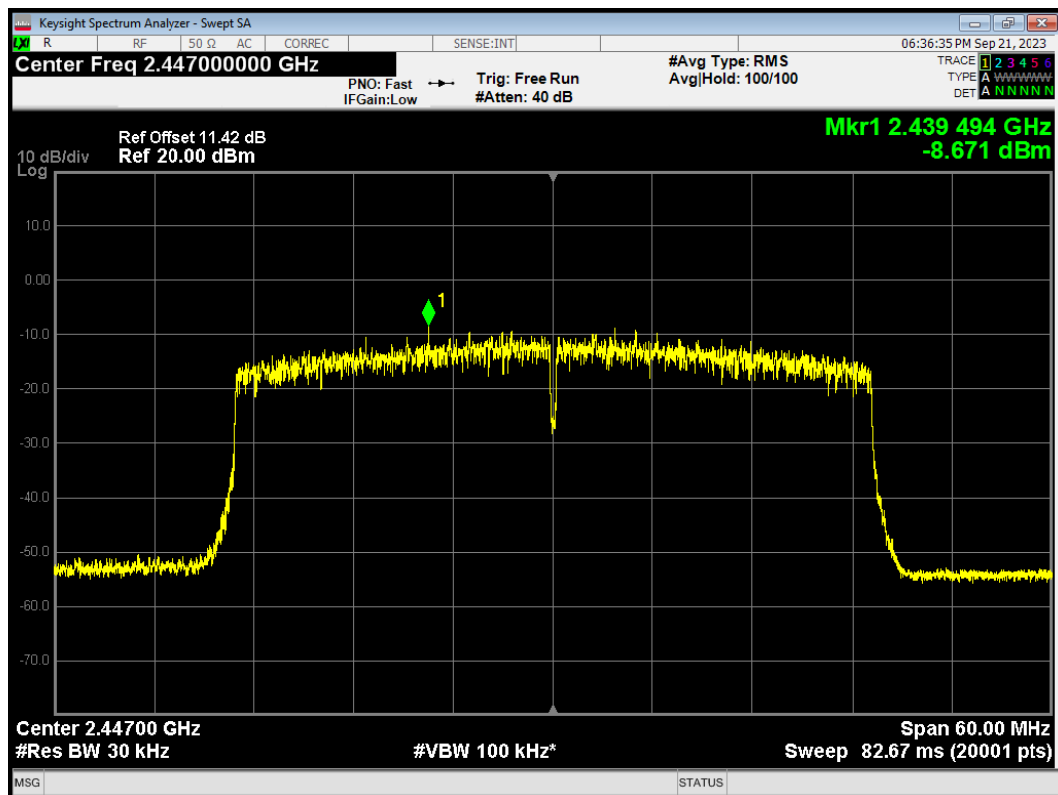
PSD 802.11ax(HE40) 2442MHz Ant1A



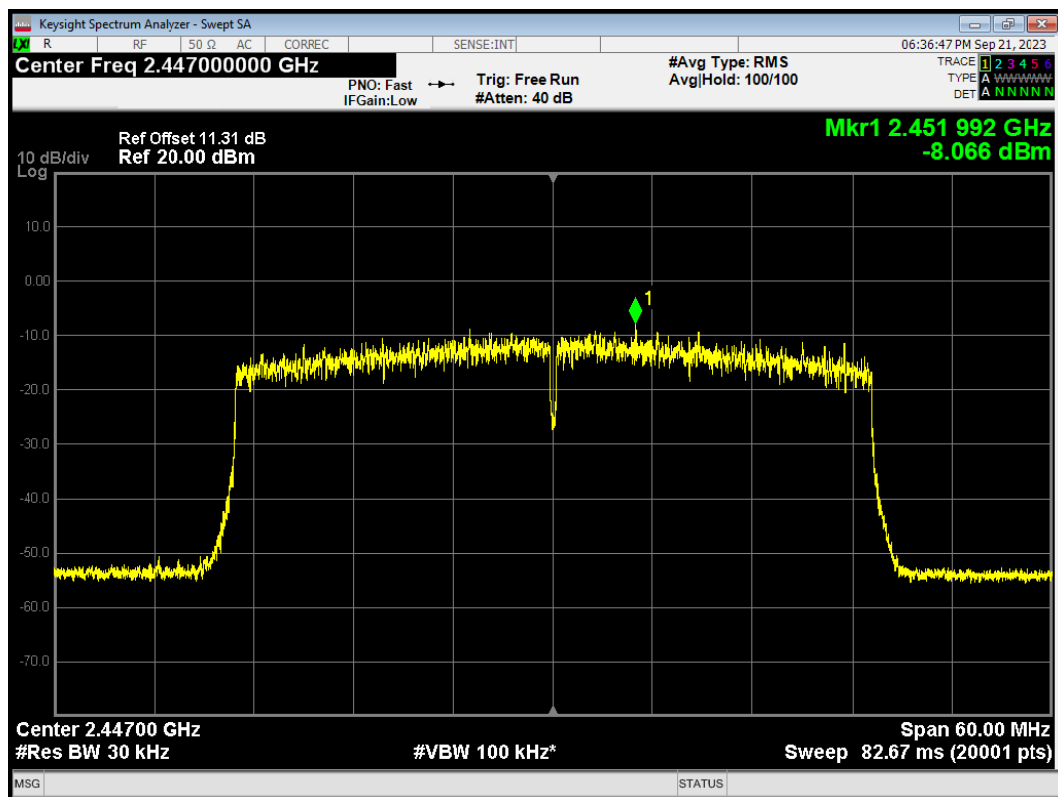
PSD 802.11ax(HE40) 2442MHz Ant2



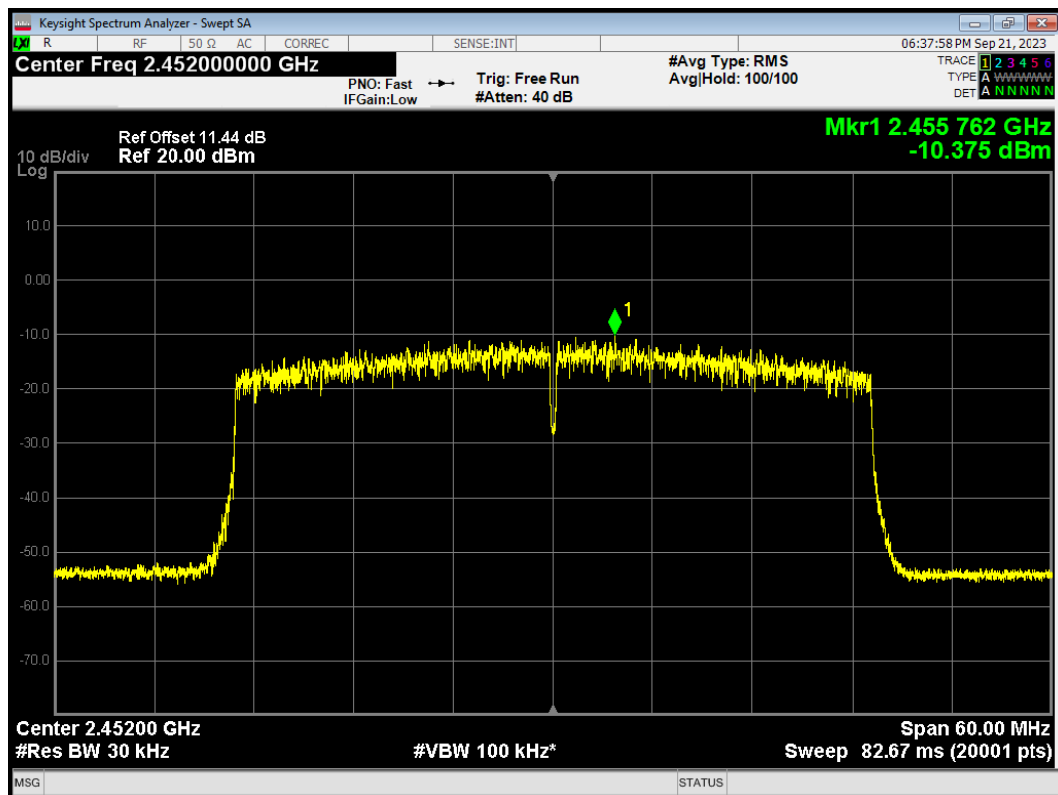
PSD 802.11ax(HE40) 2447MHz Ant1A



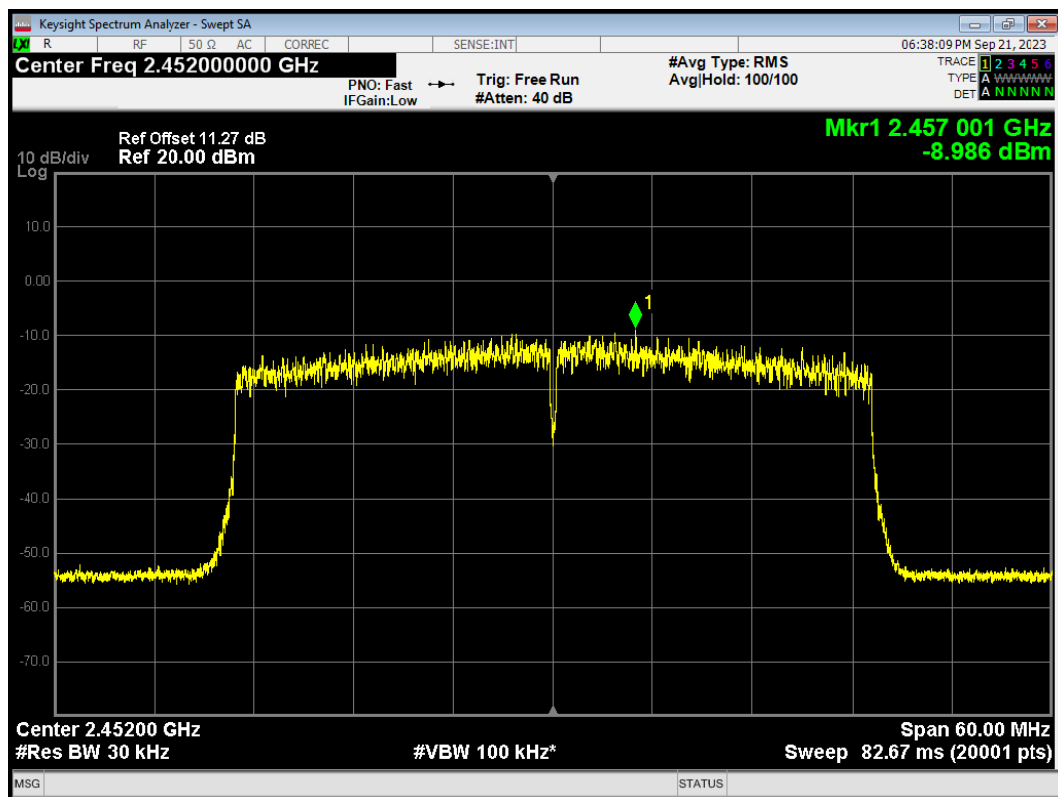
PSD 802.11ax(HE40) 2447MHz Ant2



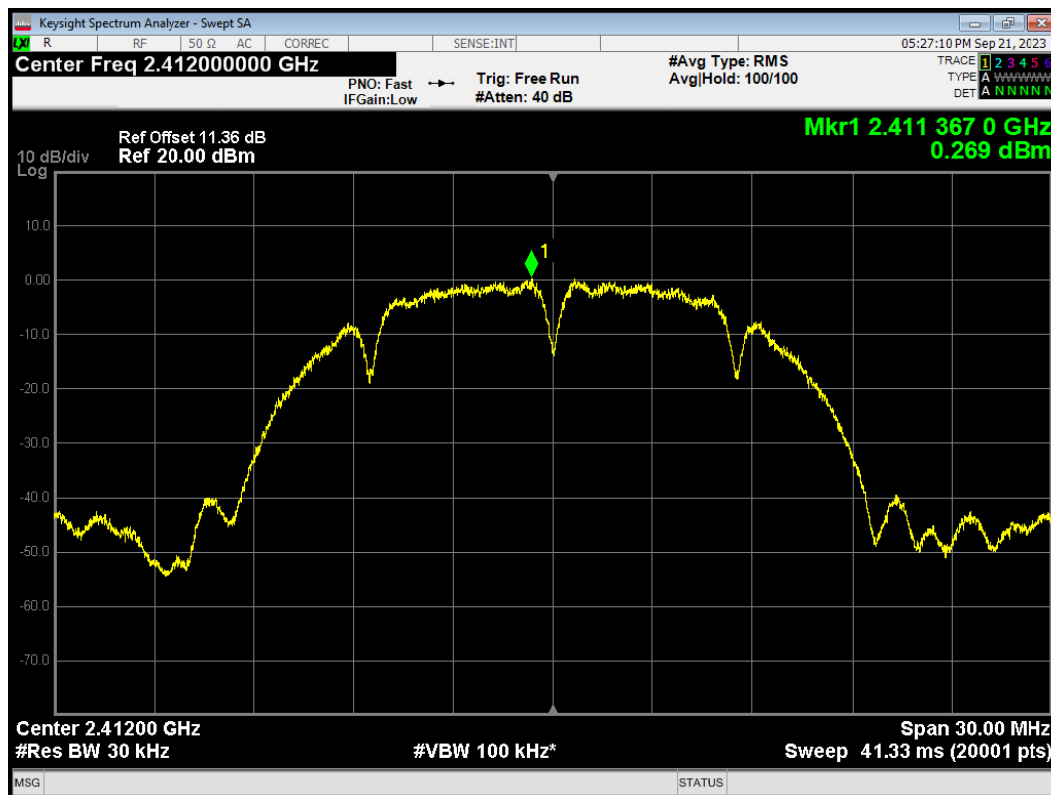
PSD 802.11ax(HE40) 2452MHz Ant1A



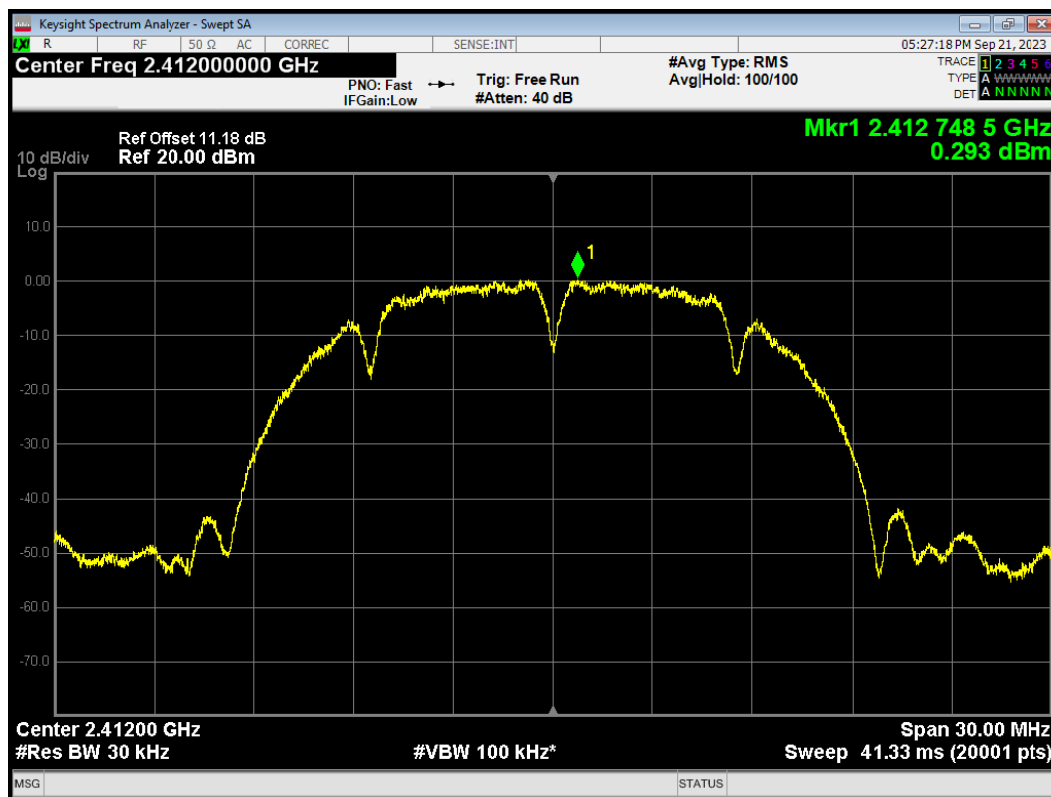
PSD 802.11ax(HE40) 2452MHz Ant2



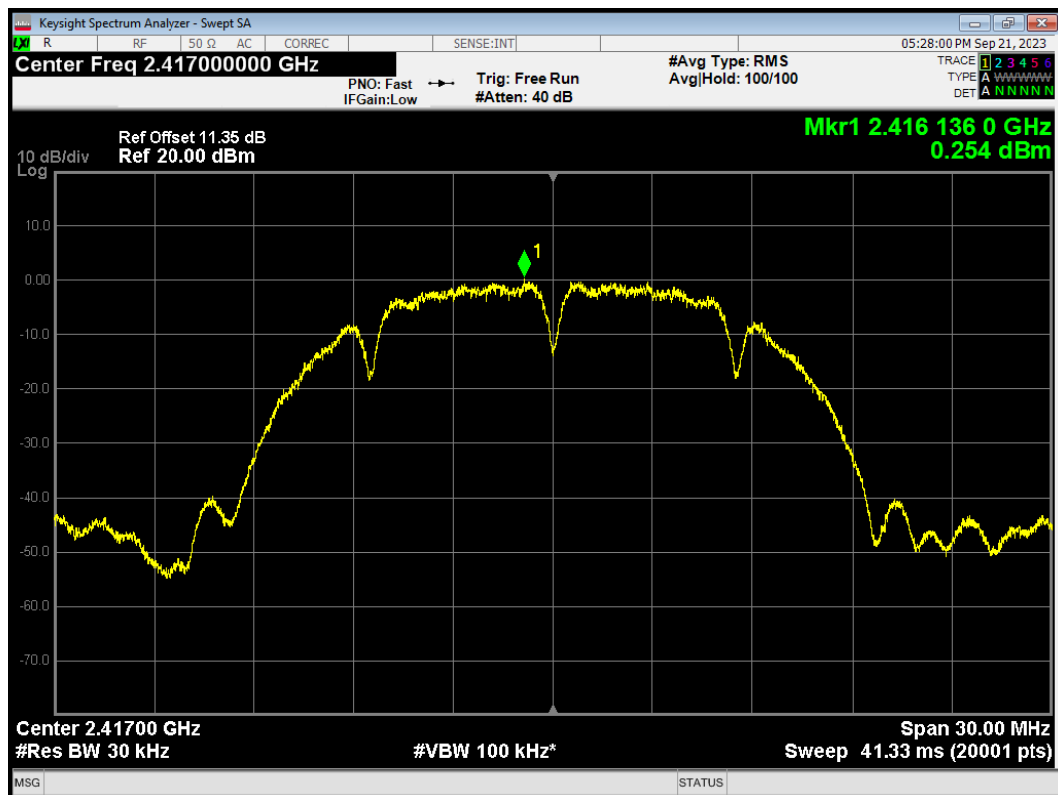
PSD 802.11b 2412MHz Ant1A



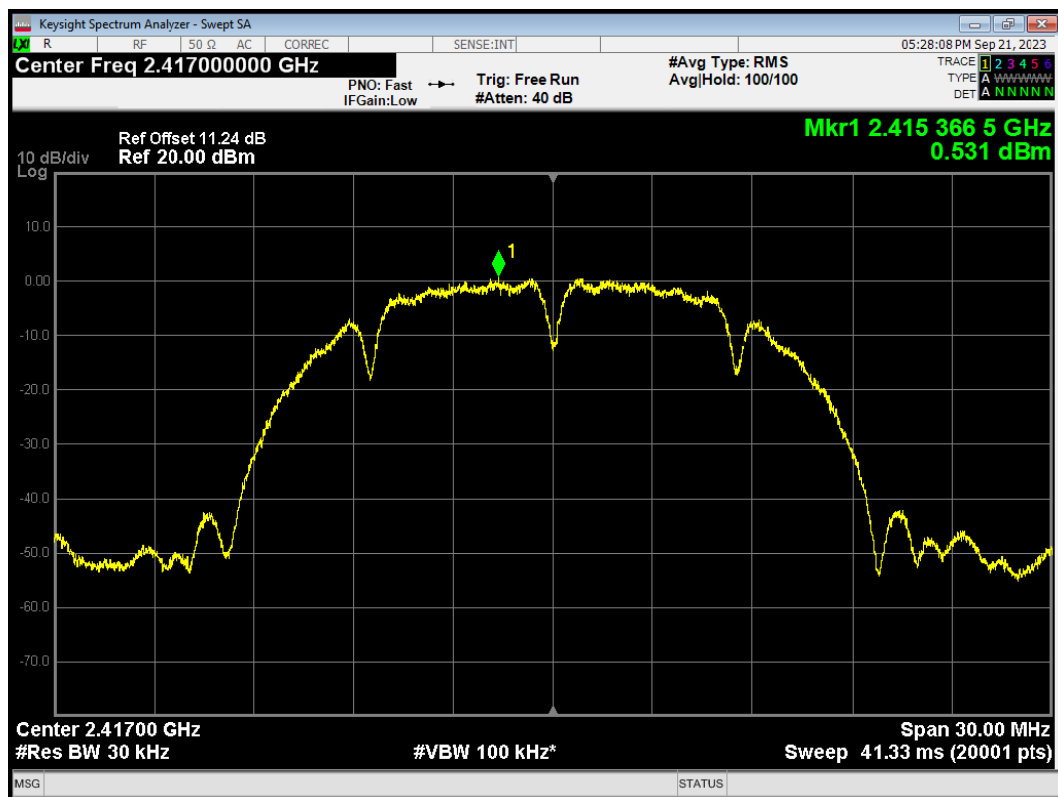
PSD 802.11b 2412MHz Ant2



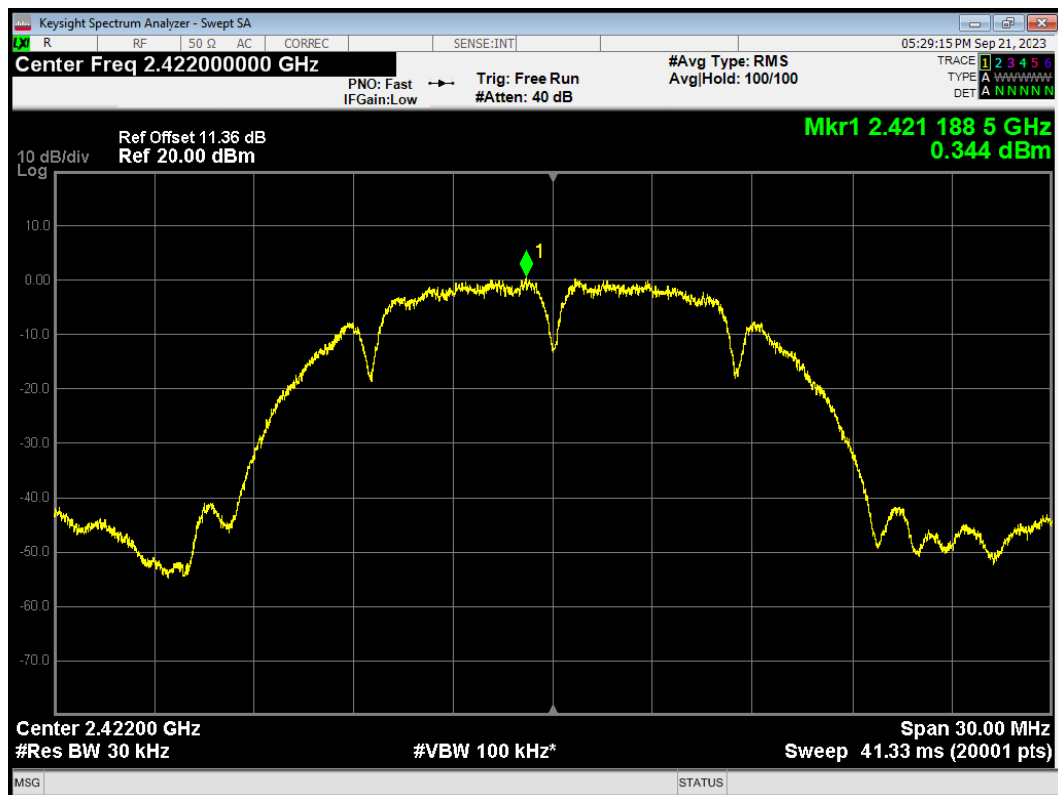
PSD 802.11b 2417MHz Ant1A



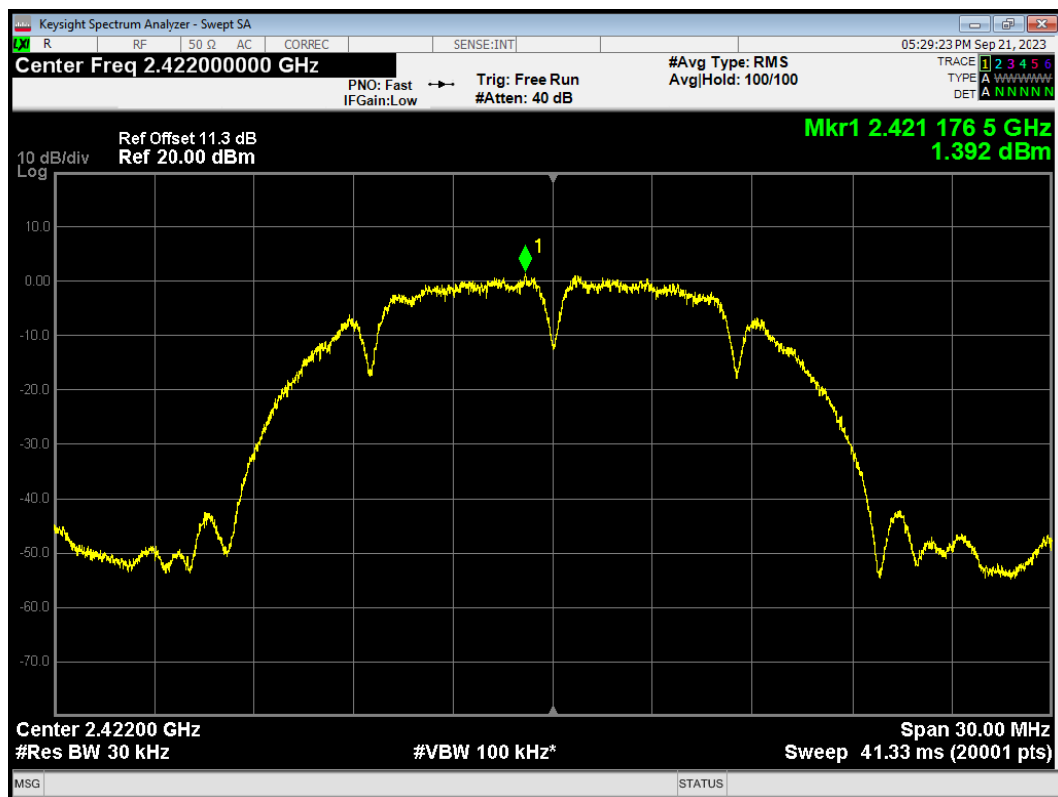
PSD 802.11b 2417MHz Ant2



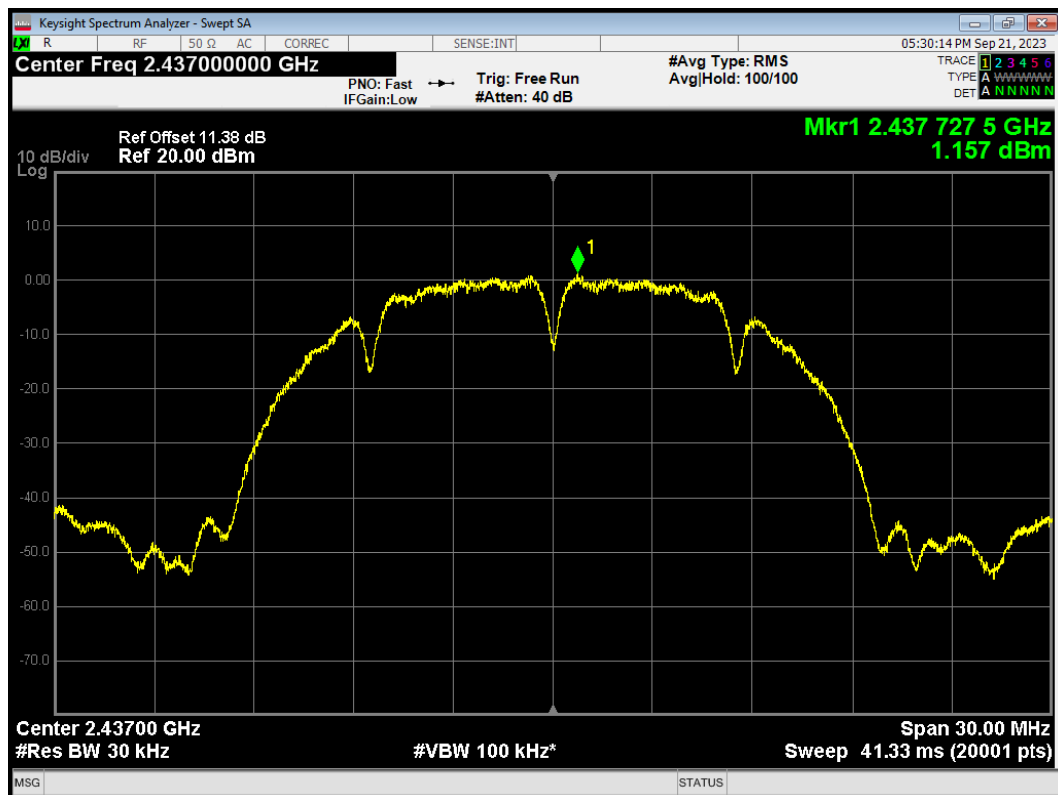
PSD 802.11b 2422MHz Ant1A



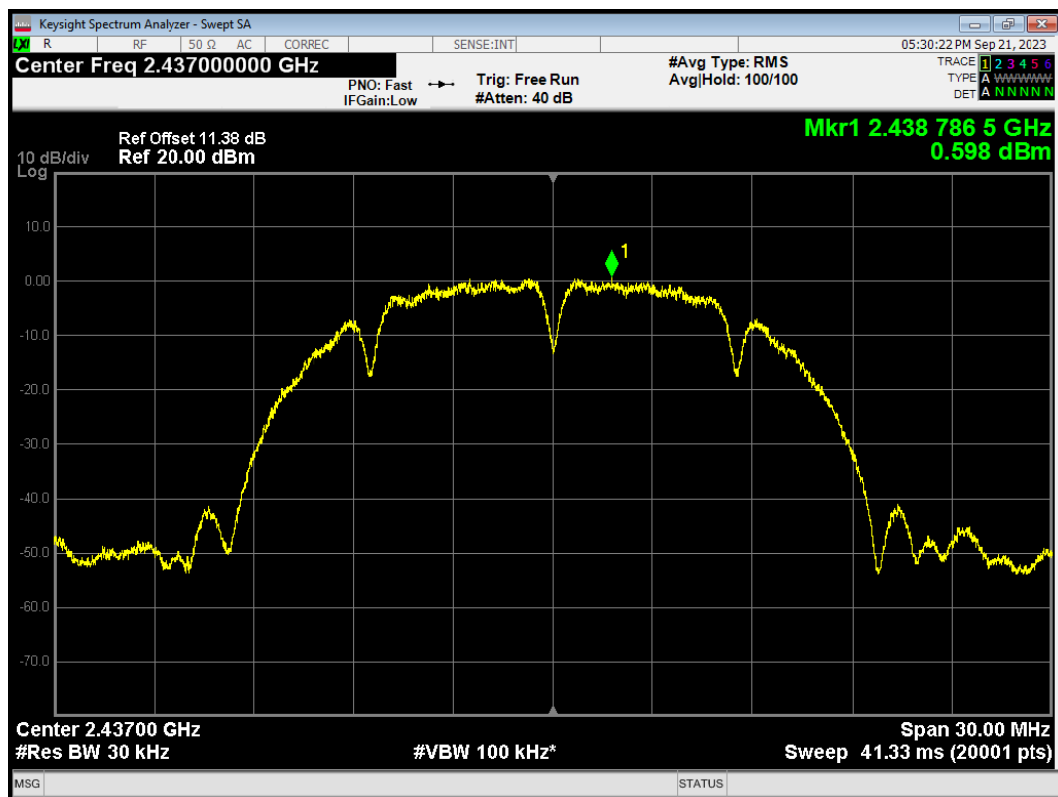
PSD 802.11b 2422MHz Ant2



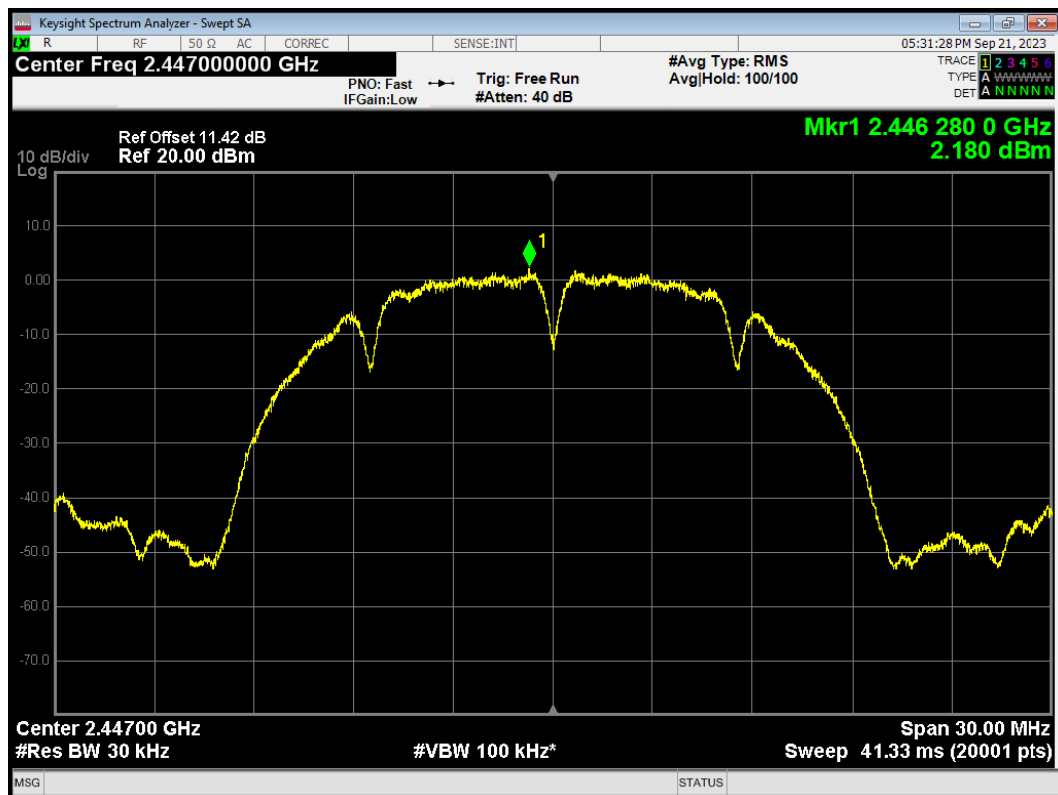
PSD 802.11b 2437MHz Ant1A



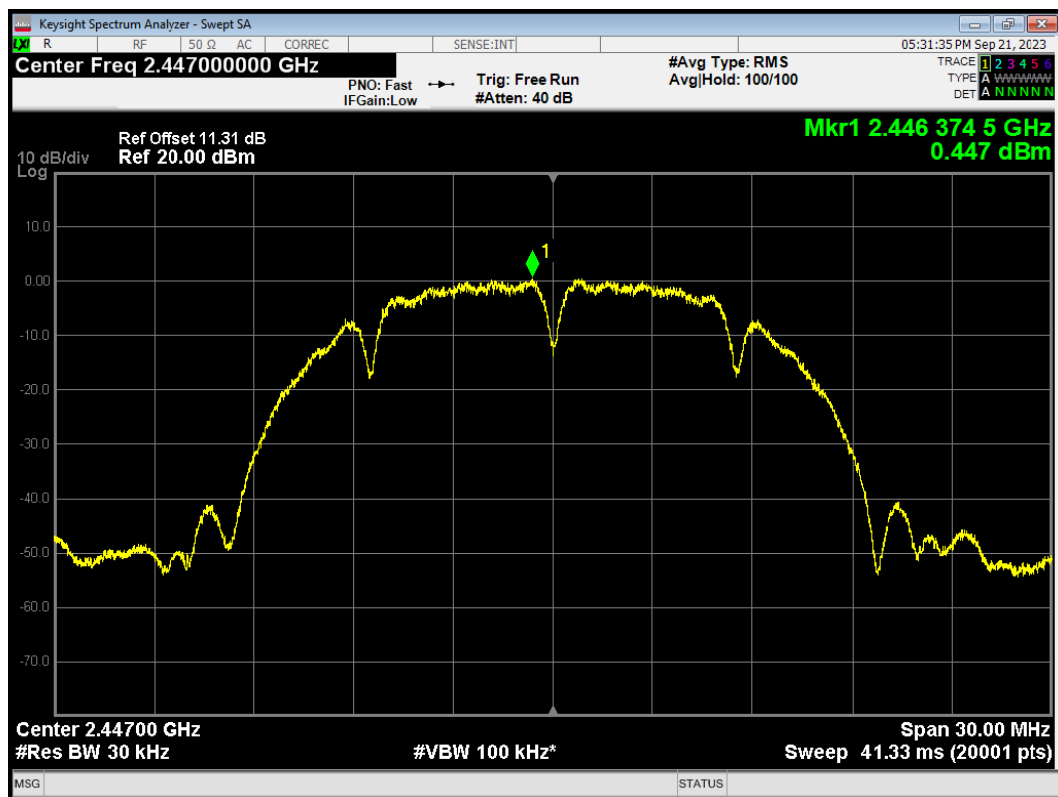
PSD 802.11b 2437MHz Ant2



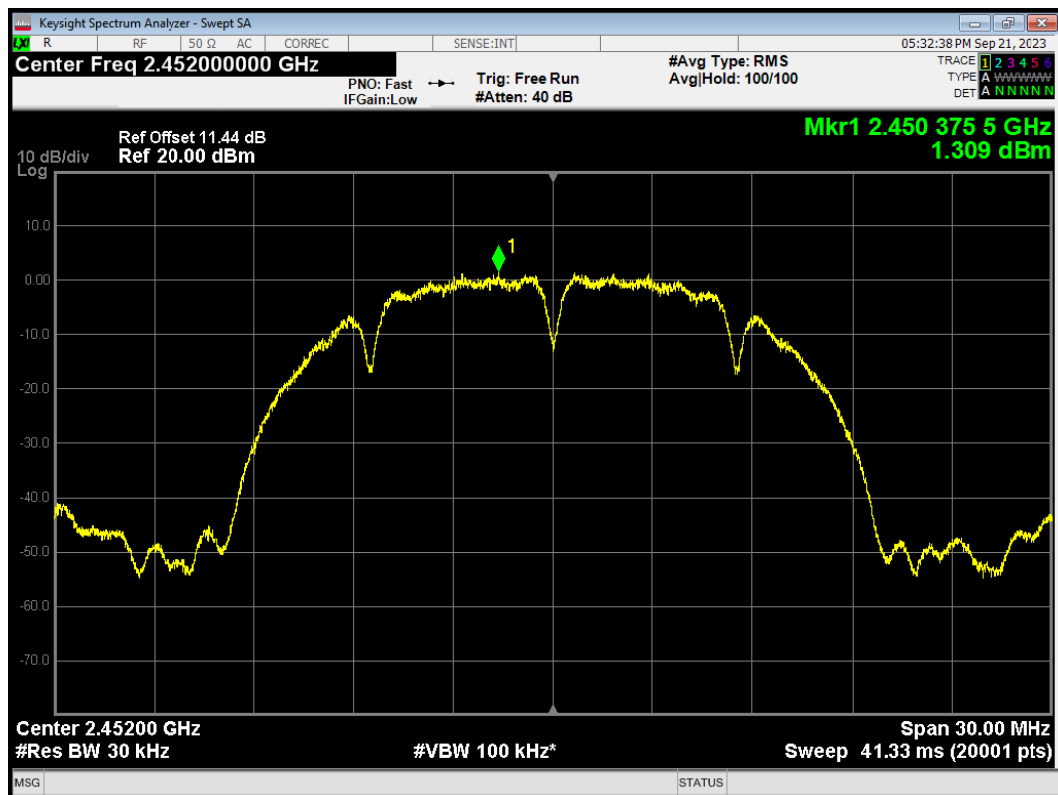
PSD 802.11b 2447MHz Ant1A



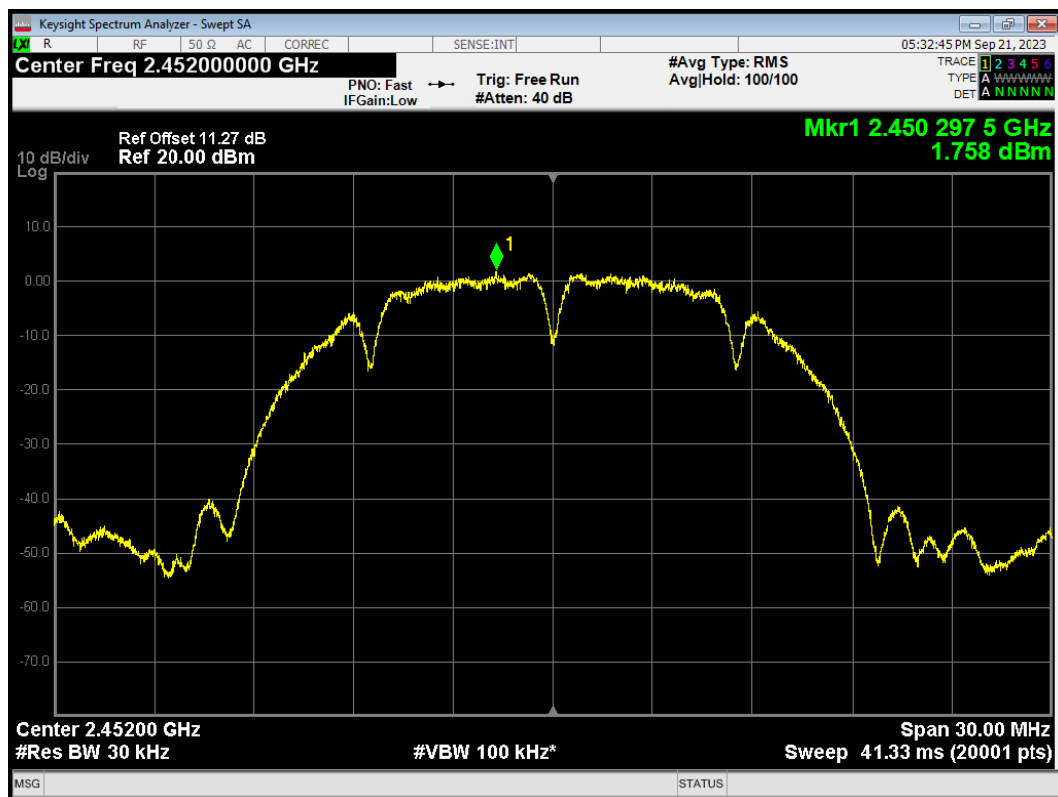
PSD 802.11b 2447MHz Ant2



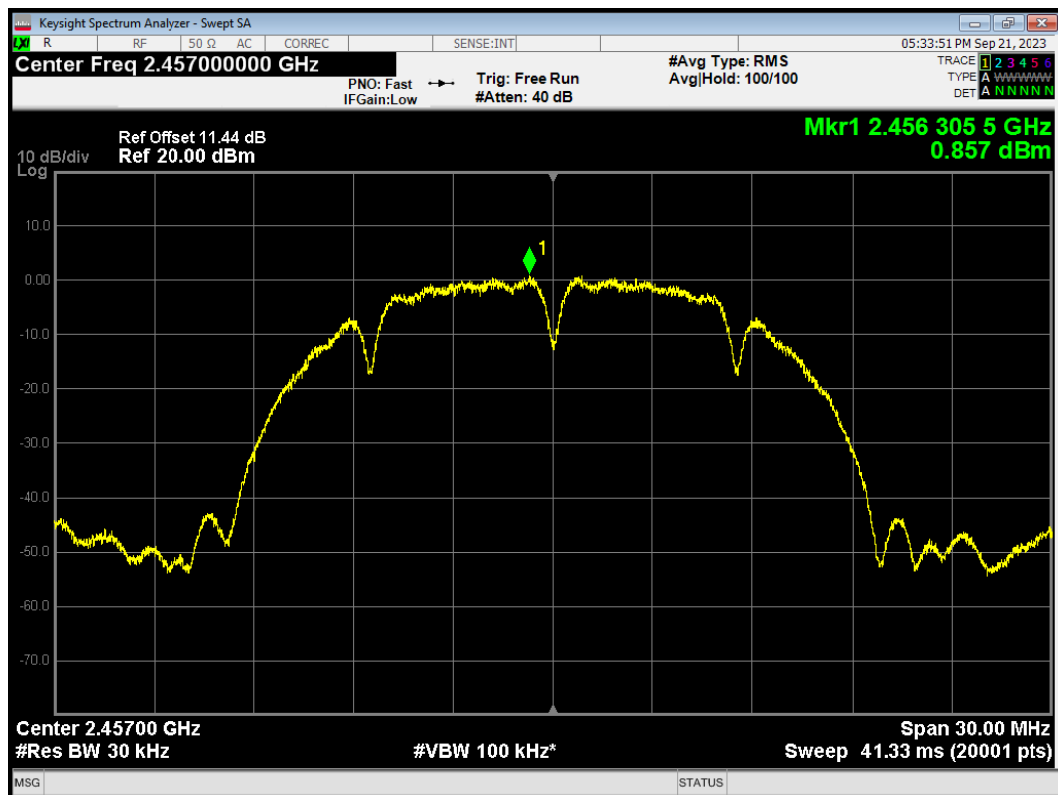
PSD 802.11b 2452MHz Ant1A



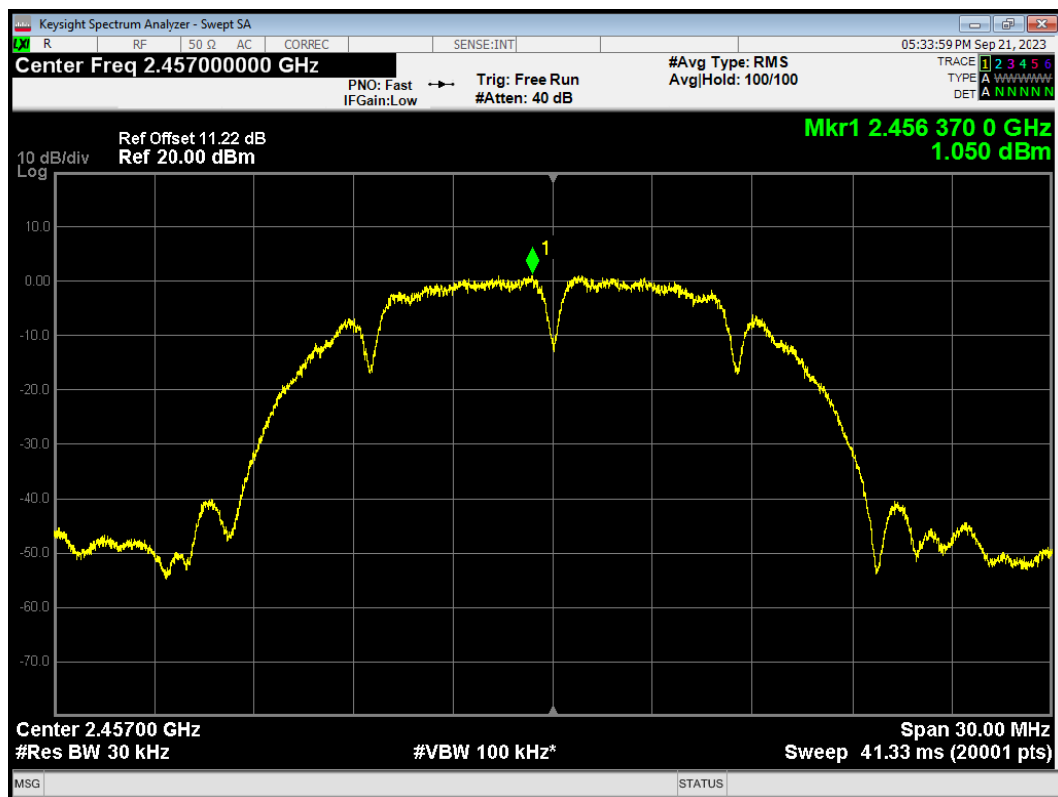
PSD 802.11b 2452MHz Ant2



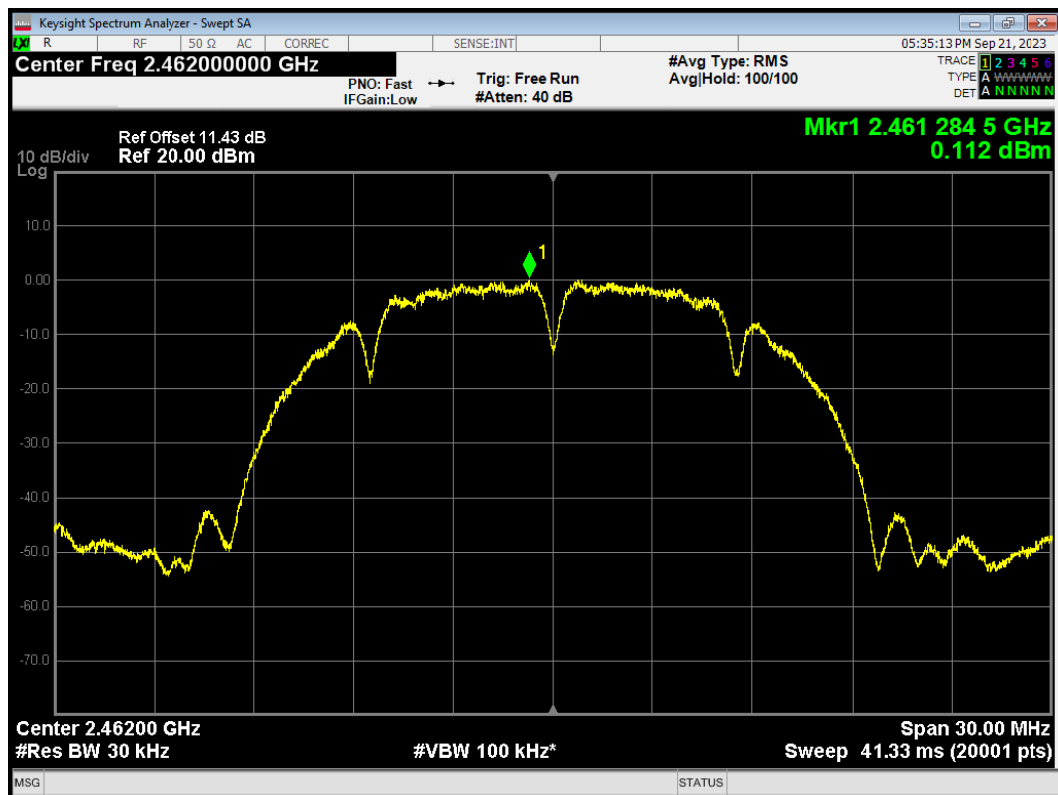
PSD 802.11b 2457MHz Ant1A



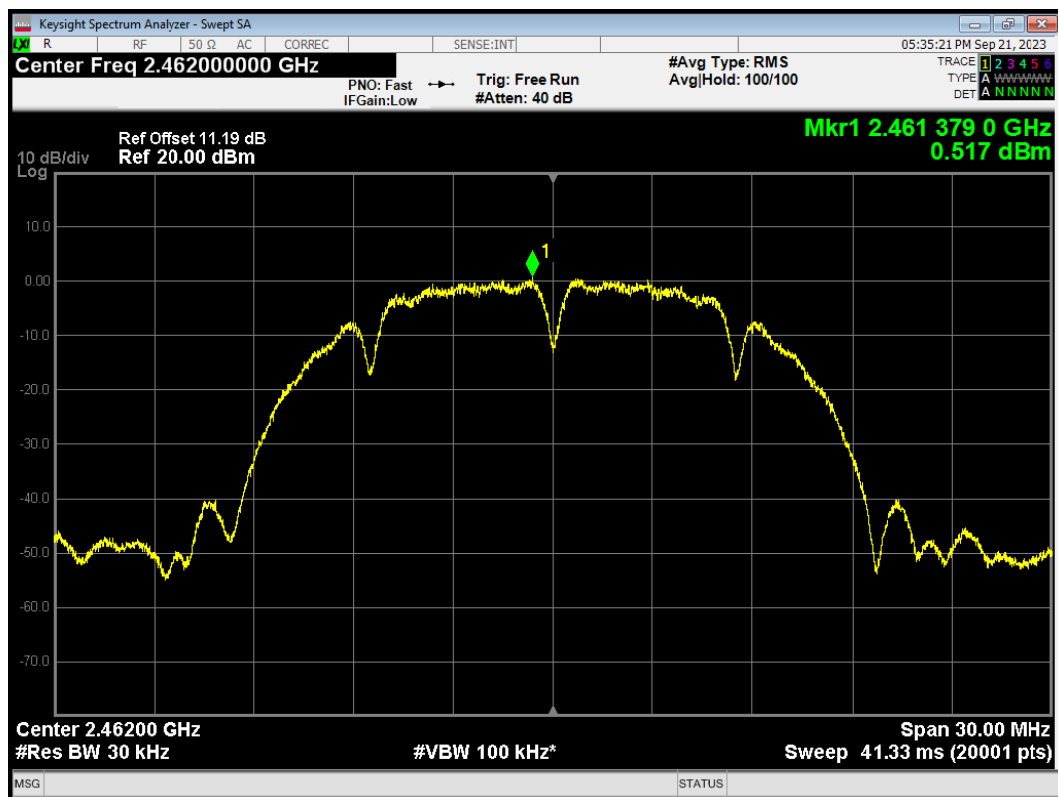
PSD 802.11b 2457MHz Ant2



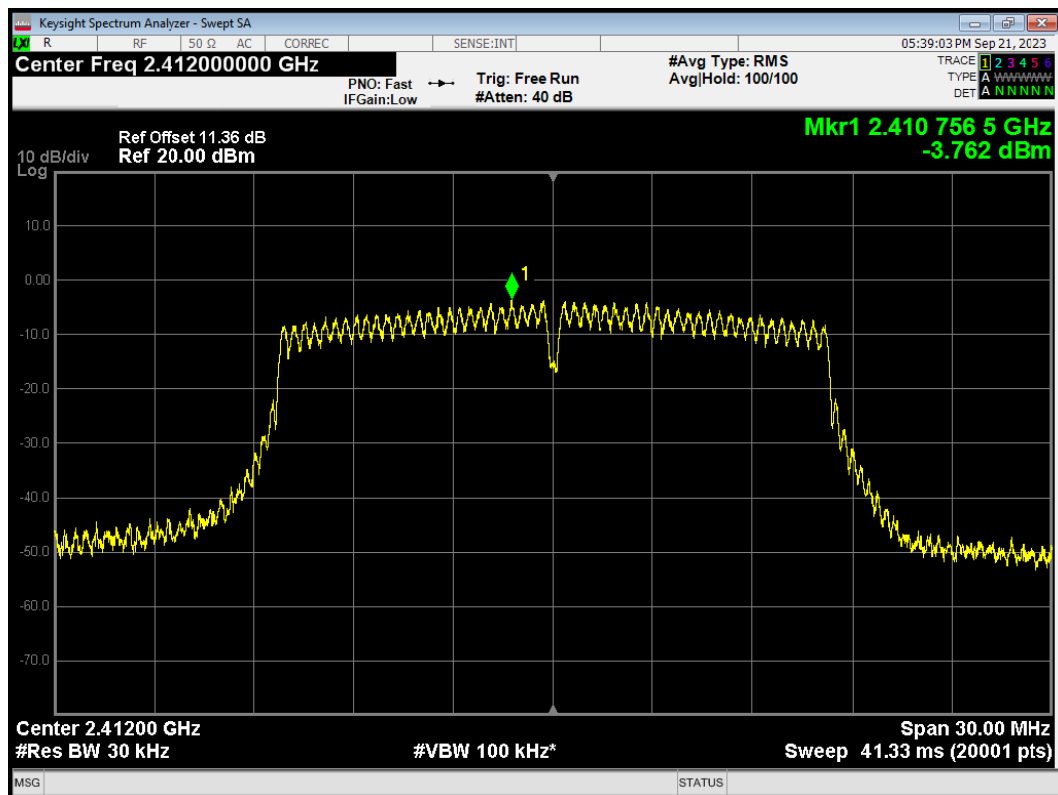
PSD 802.11b 2462MHz Ant1A



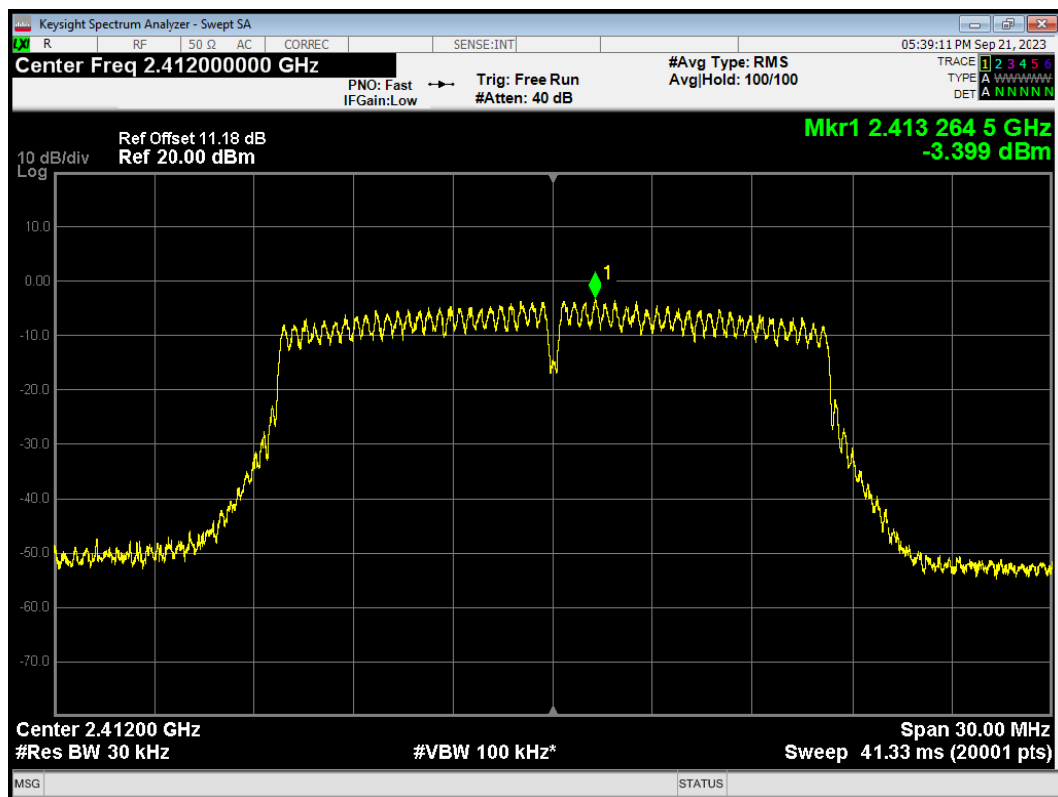
PSD 802.11b 2462MHz Ant2



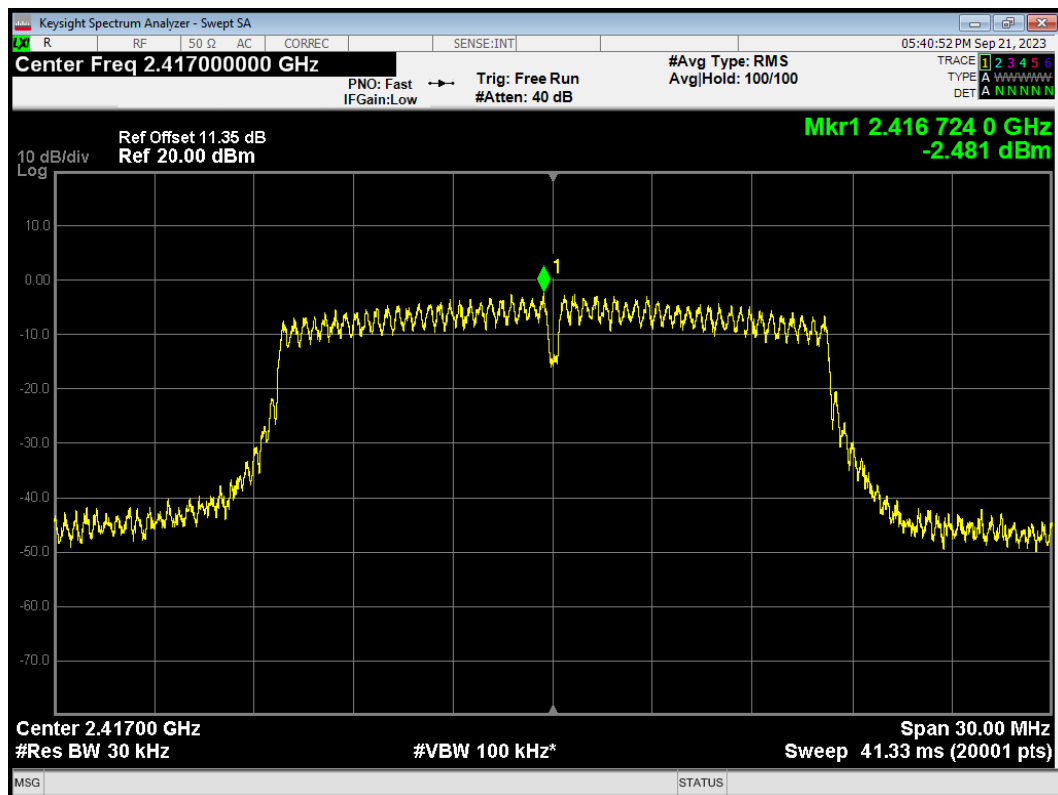
PSD 802.11g 2412MHz Ant1A



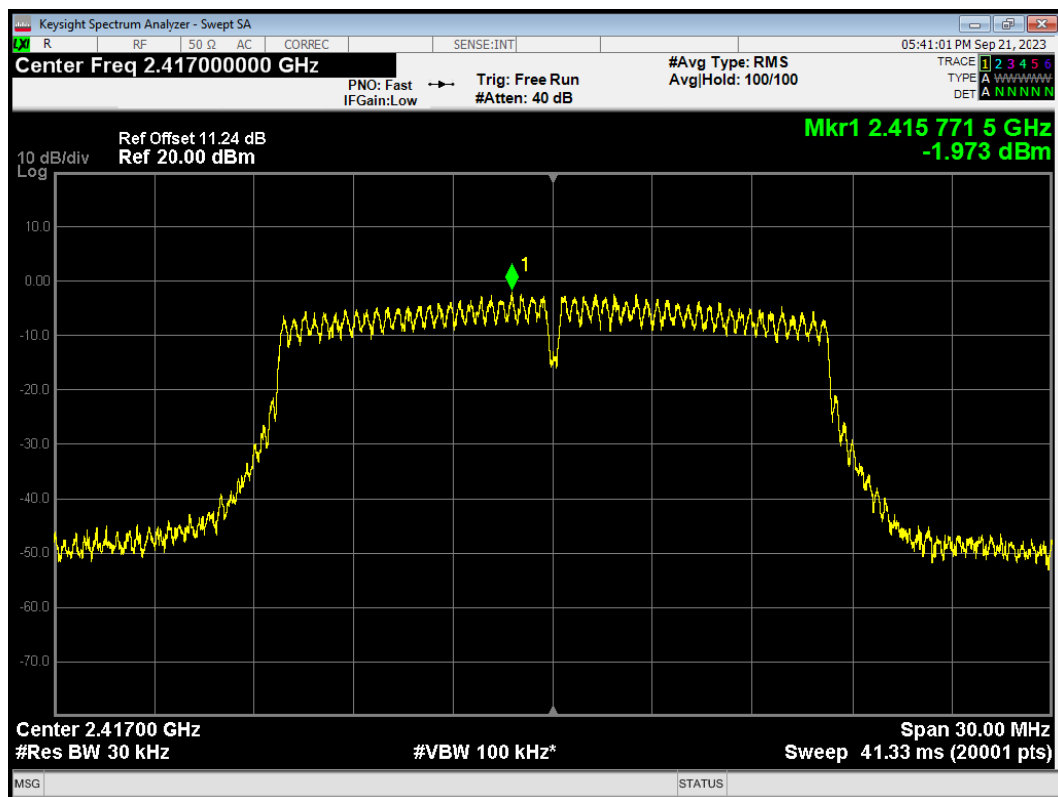
PSD 802.11g 2412MHz Ant2



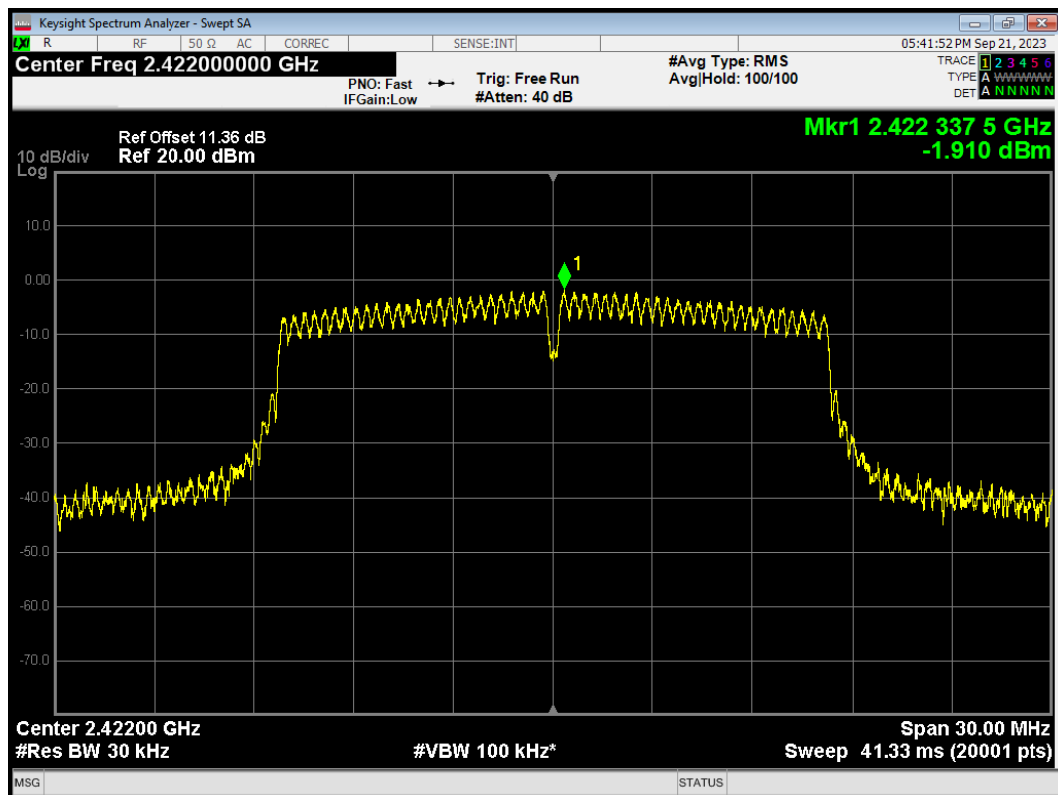
PSD 802.11g 2417MHz Ant1A



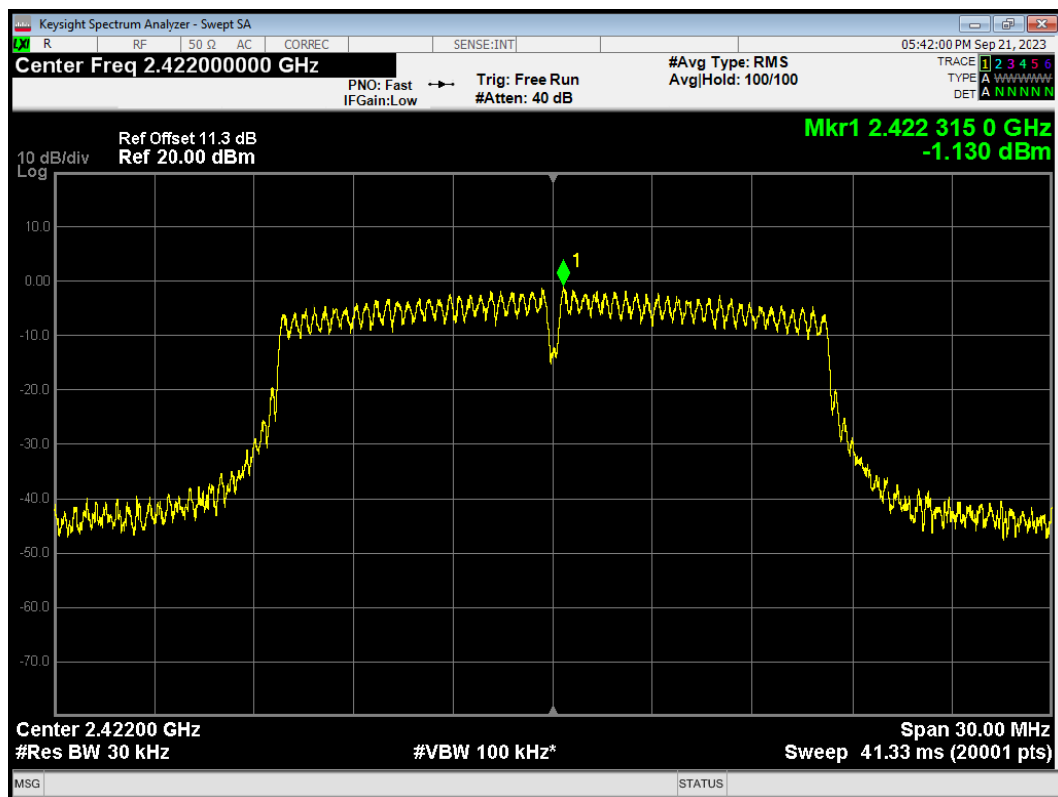
PSD 802.11g 2417MHz Ant2



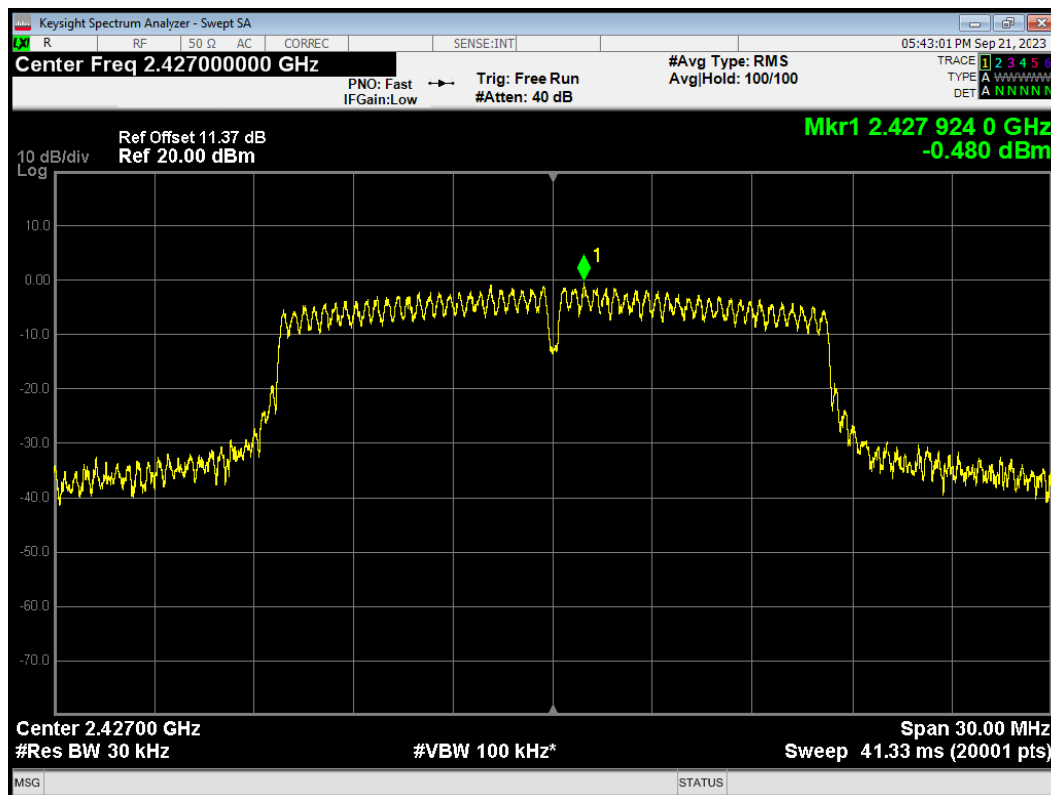
PSD 802.11g 2422MHz Ant1A



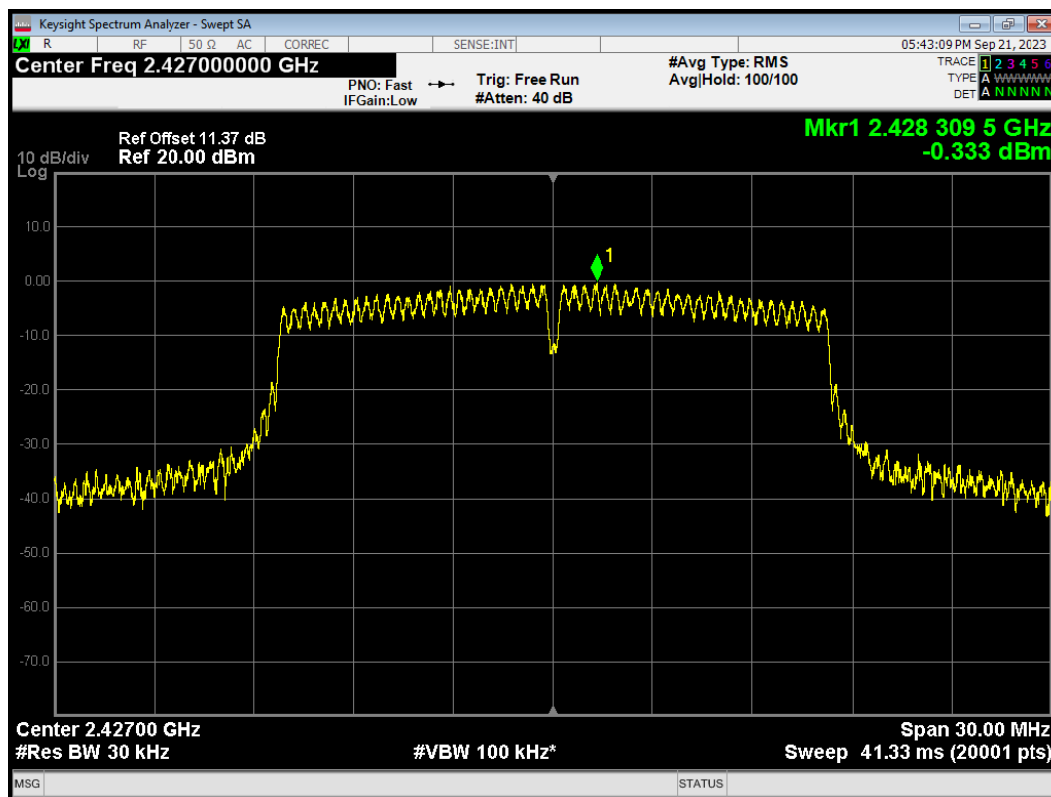
PSD 802.11g 2422MHz Ant2



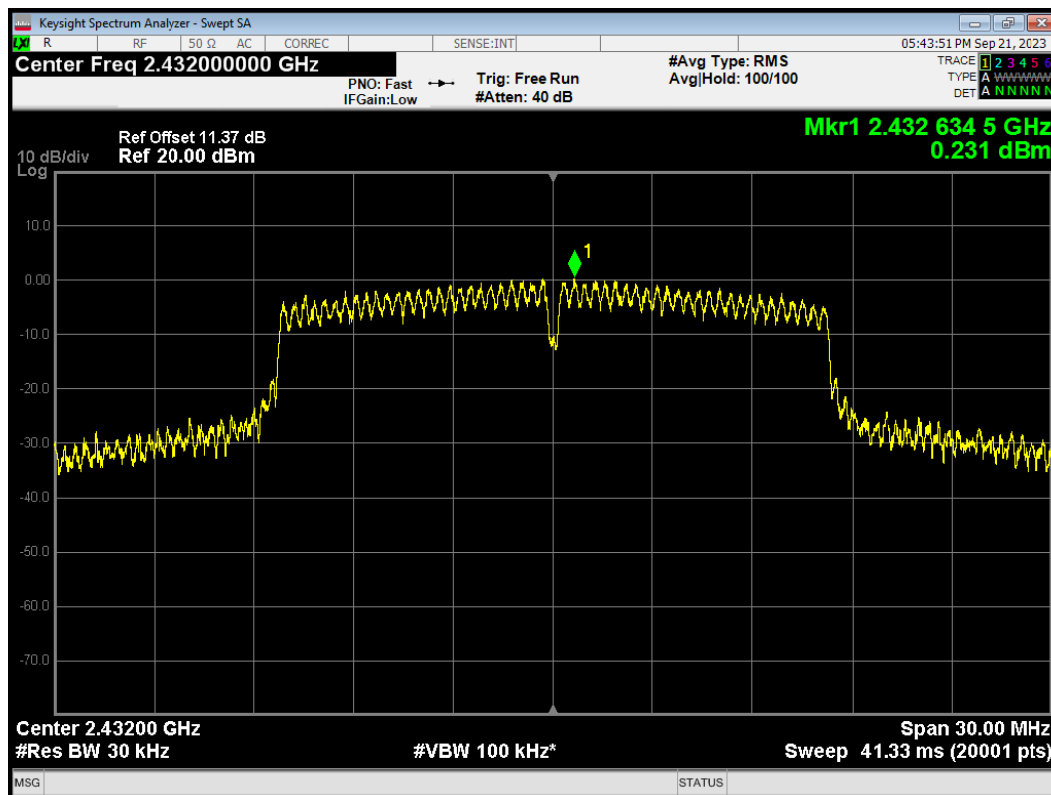
PSD 802.11g 2427MHz Ant1A



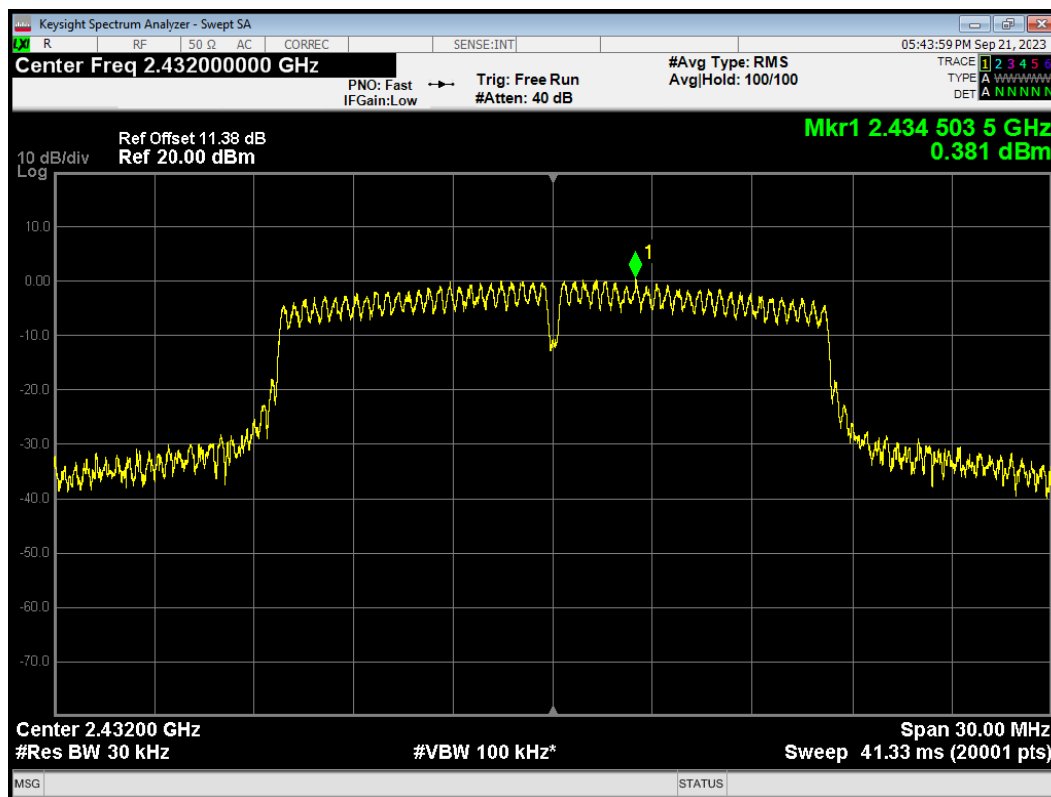
PSD 802.11g 2427MHz Ant2



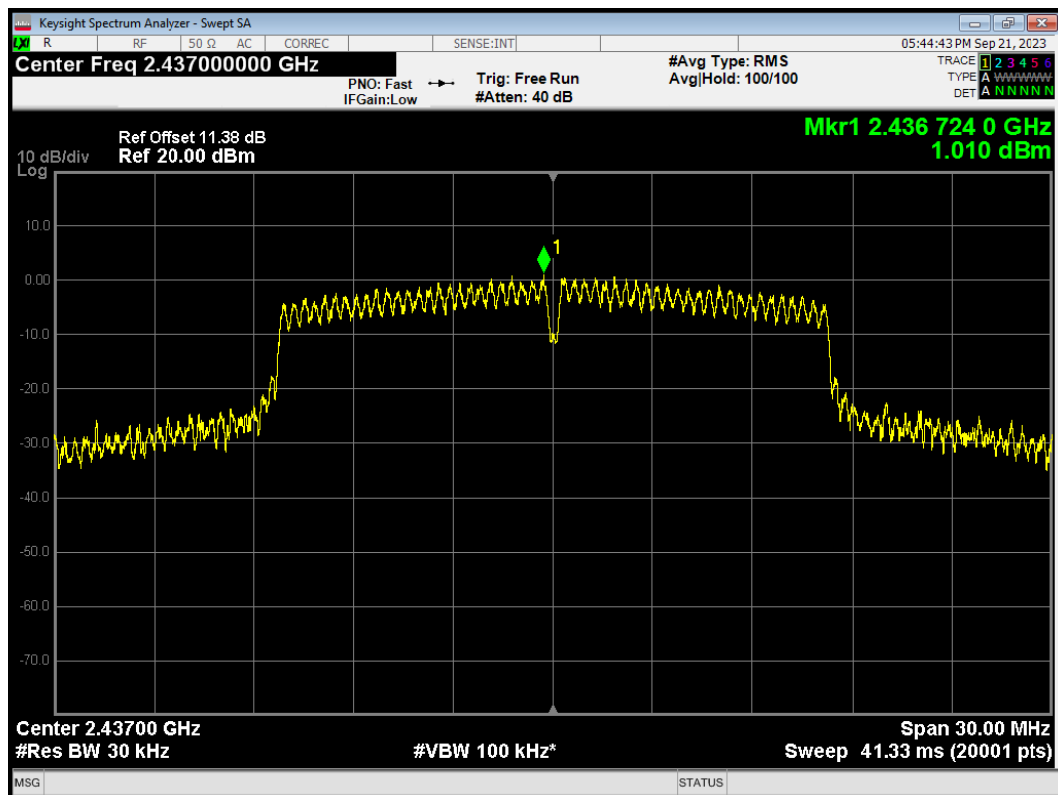
PSD 802.11g 2432MHz Ant1A



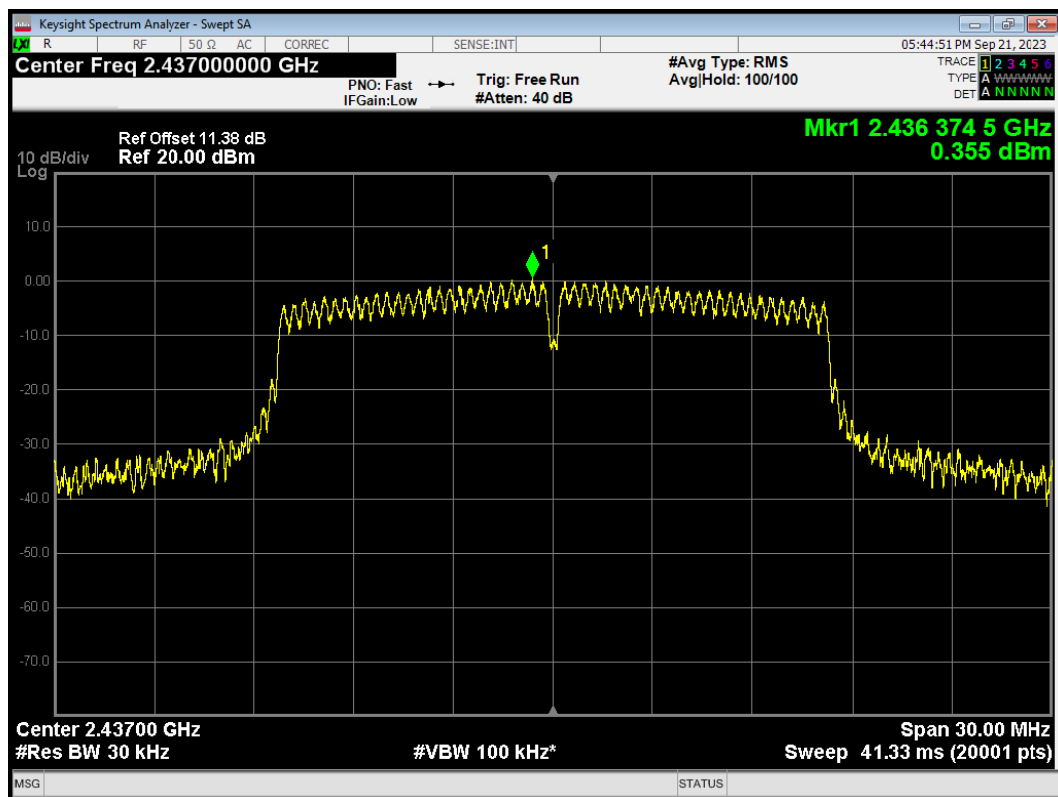
PSD 802.11g 2432MHz Ant2



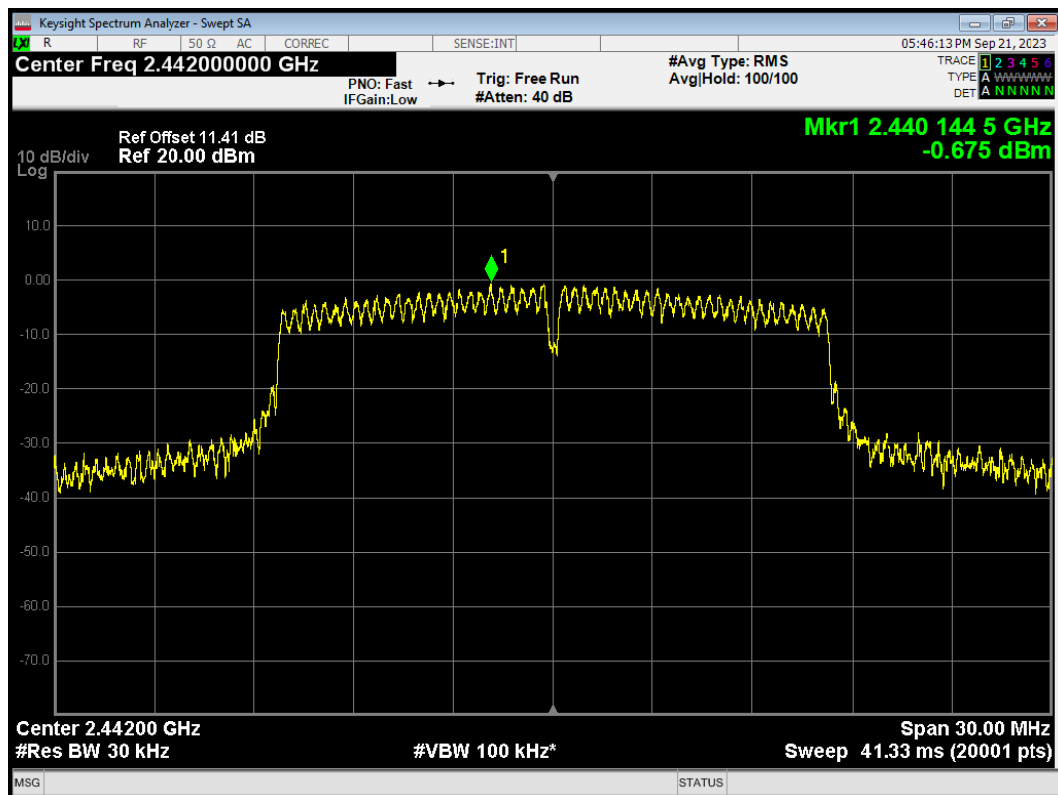
PSD 802.11g 2437MHz Ant1A



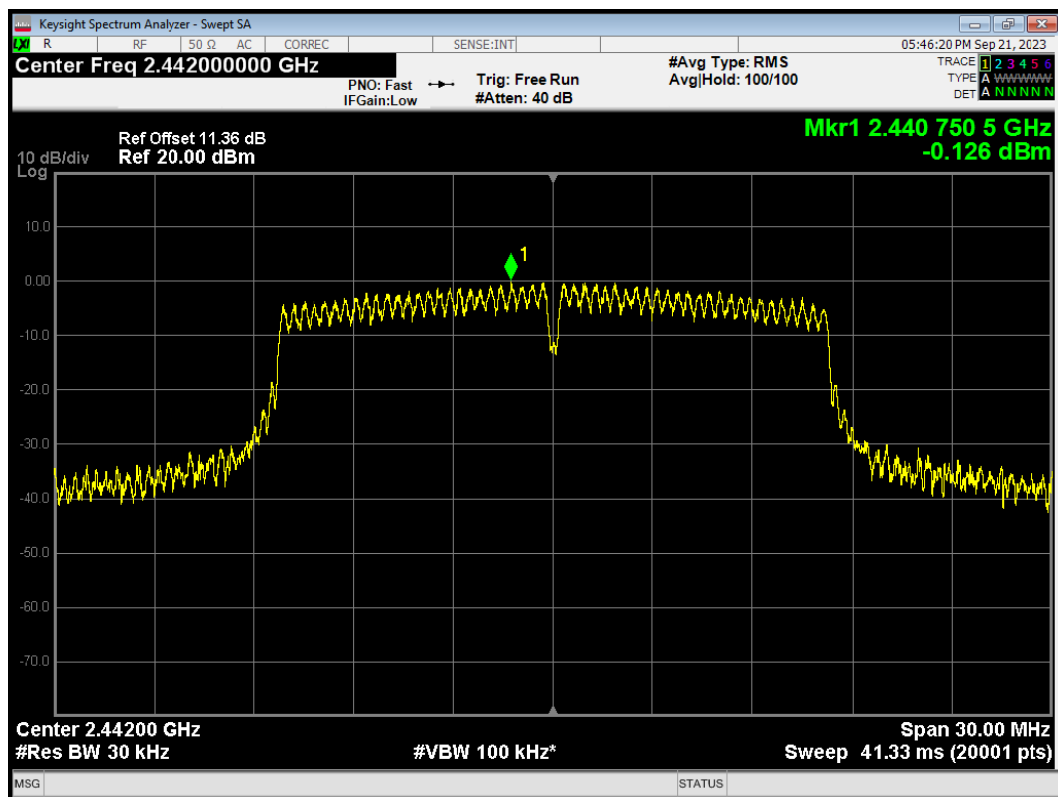
PSD 802.11g 2437MHz Ant2



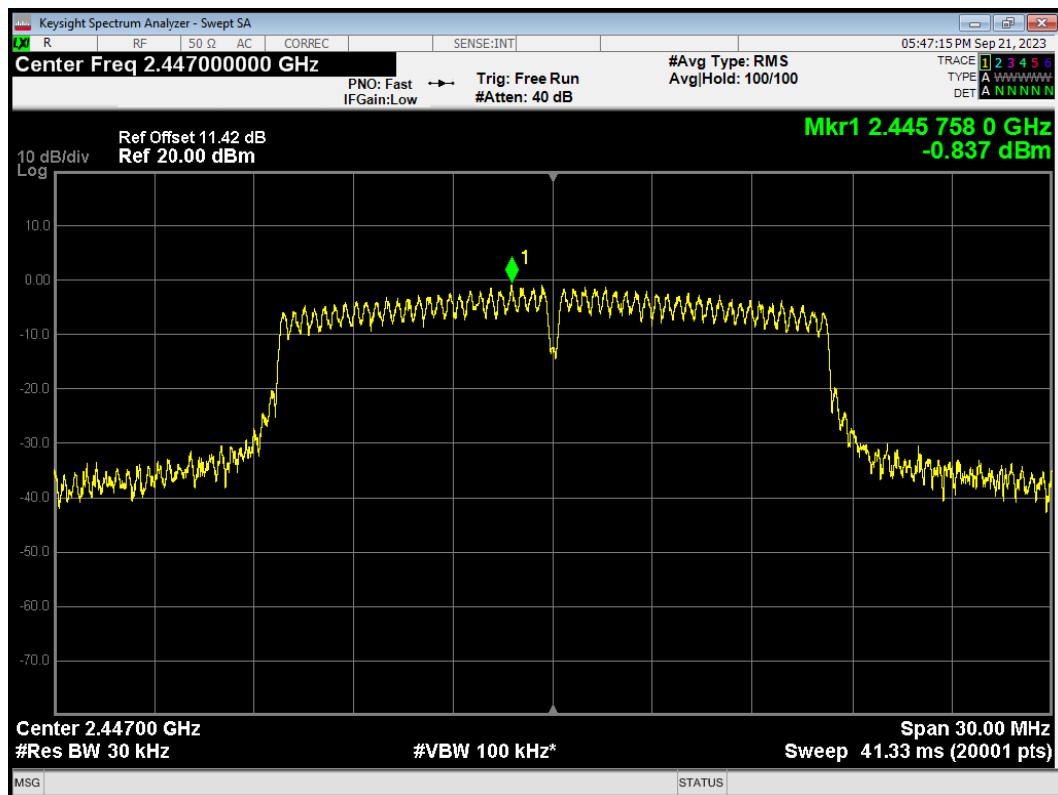
PSD 802.11g 2442MHz Ant1A



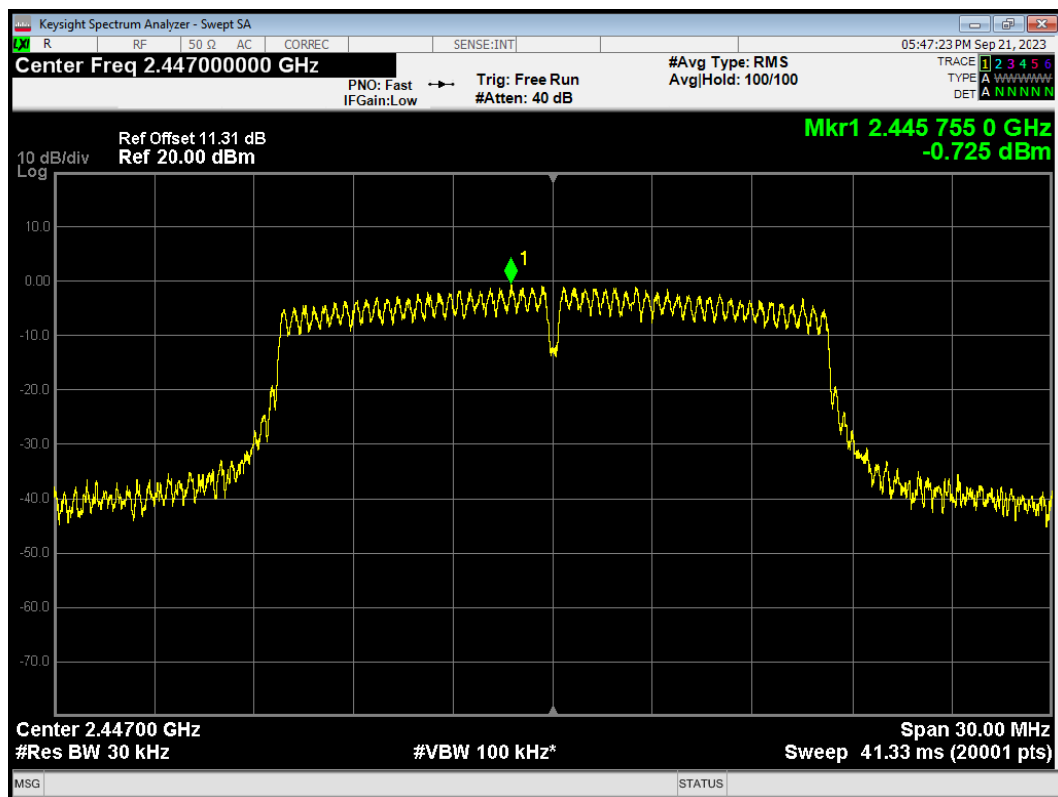
PSD 802.11g 2442MHz Ant2



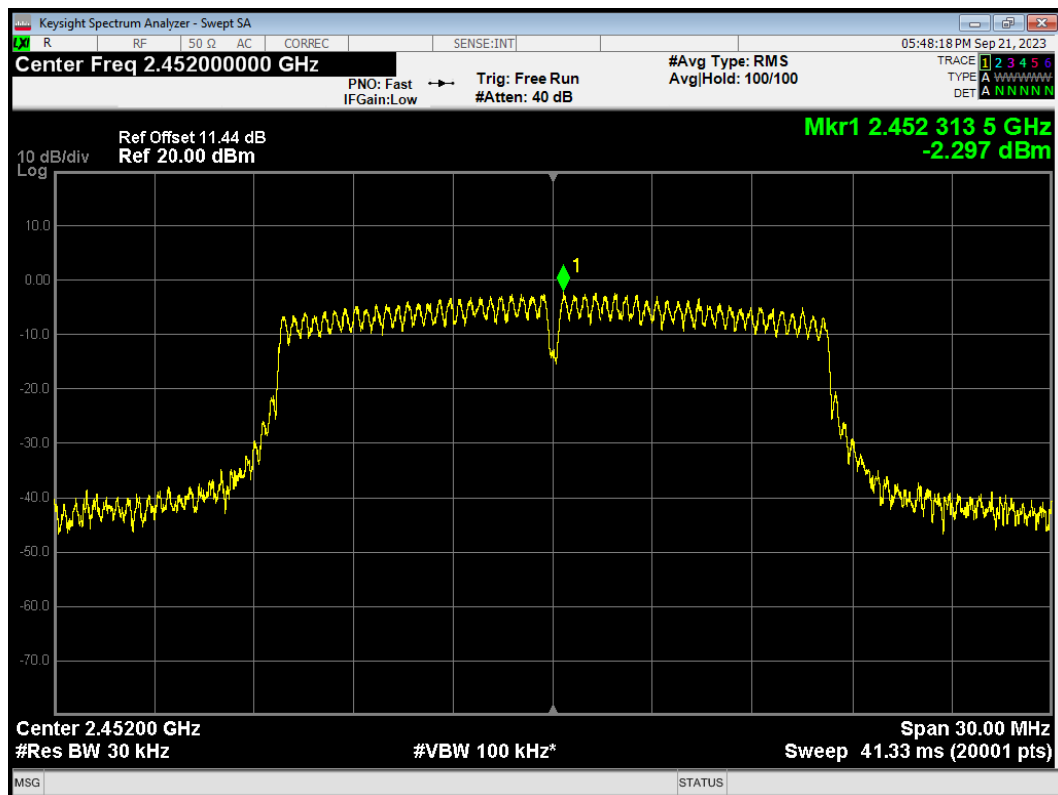
PSD 802.11g 2447MHz Ant1A



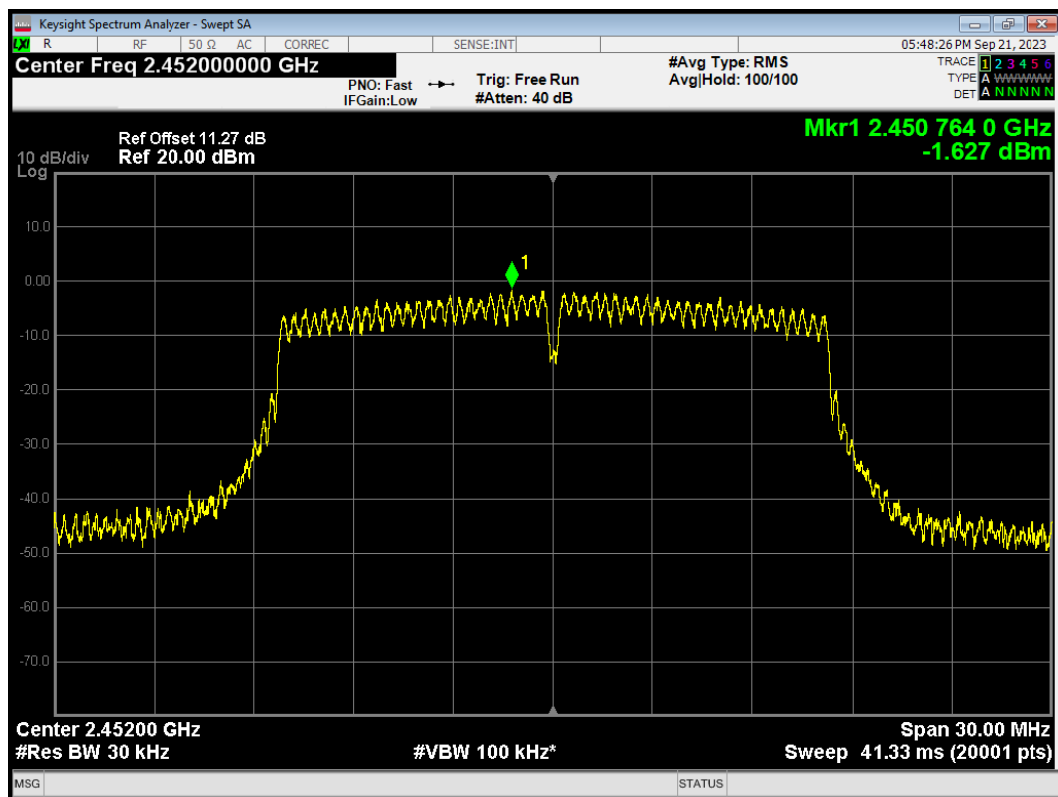
PSD 802.11g 2447MHz Ant2



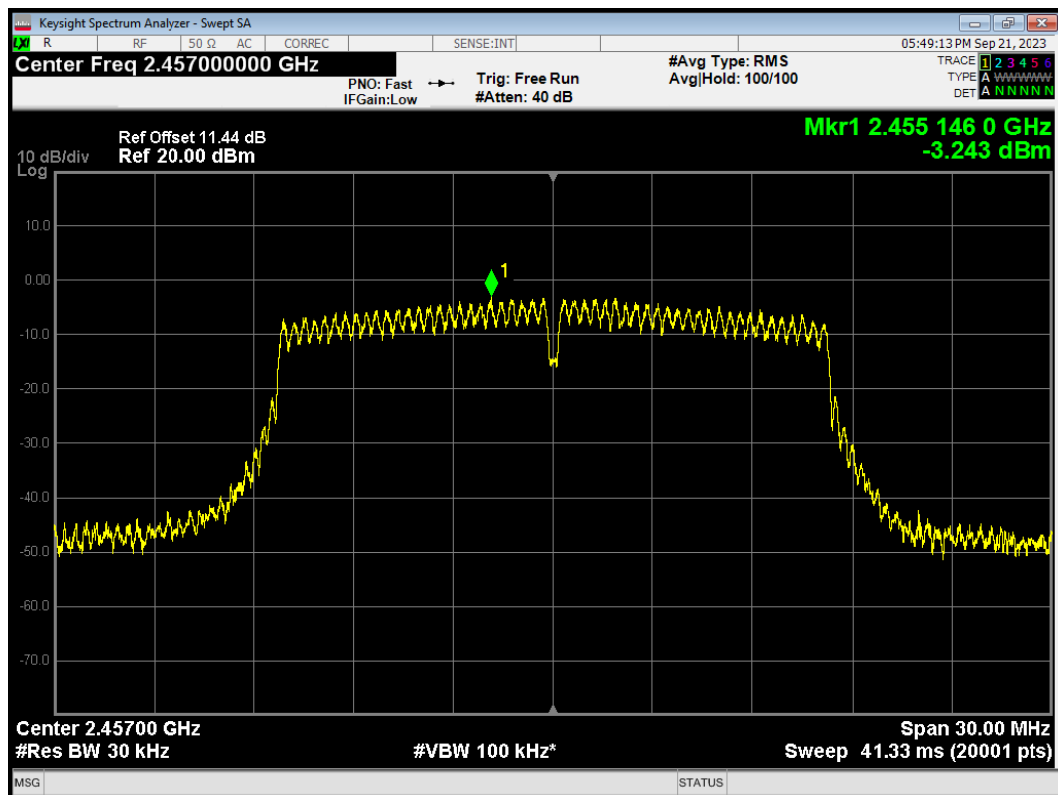
PSD 802.11g 2452MHz Ant1A



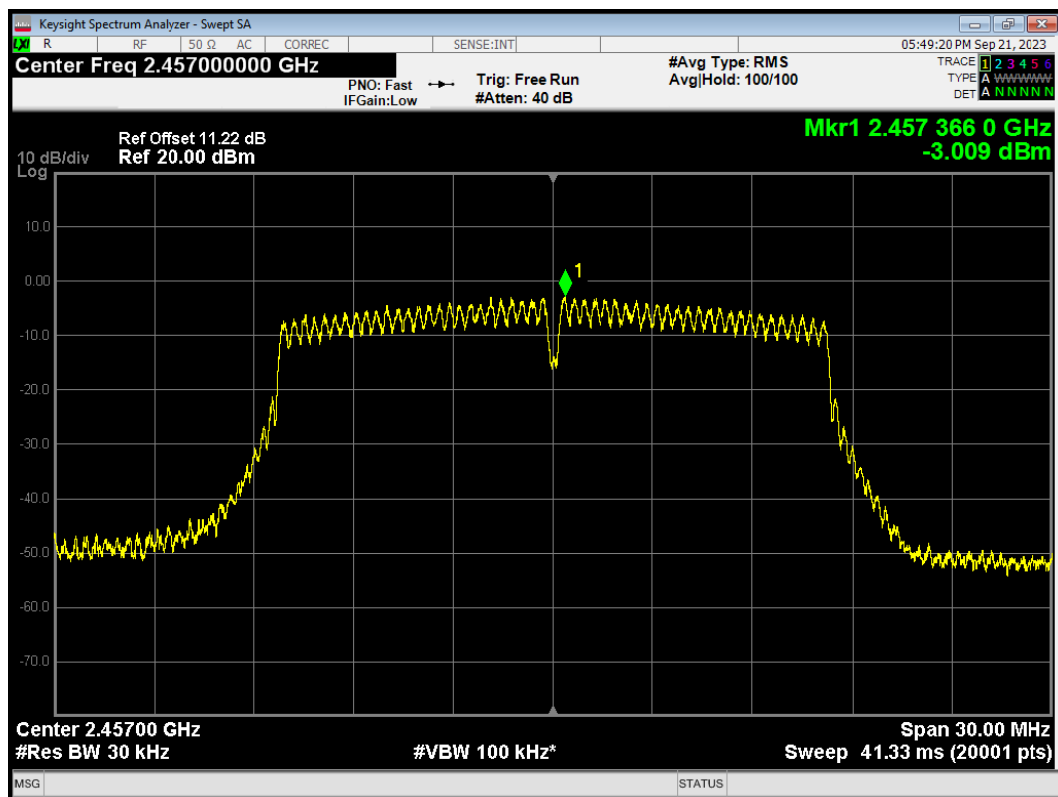
PSD 802.11g 2452MHz Ant2



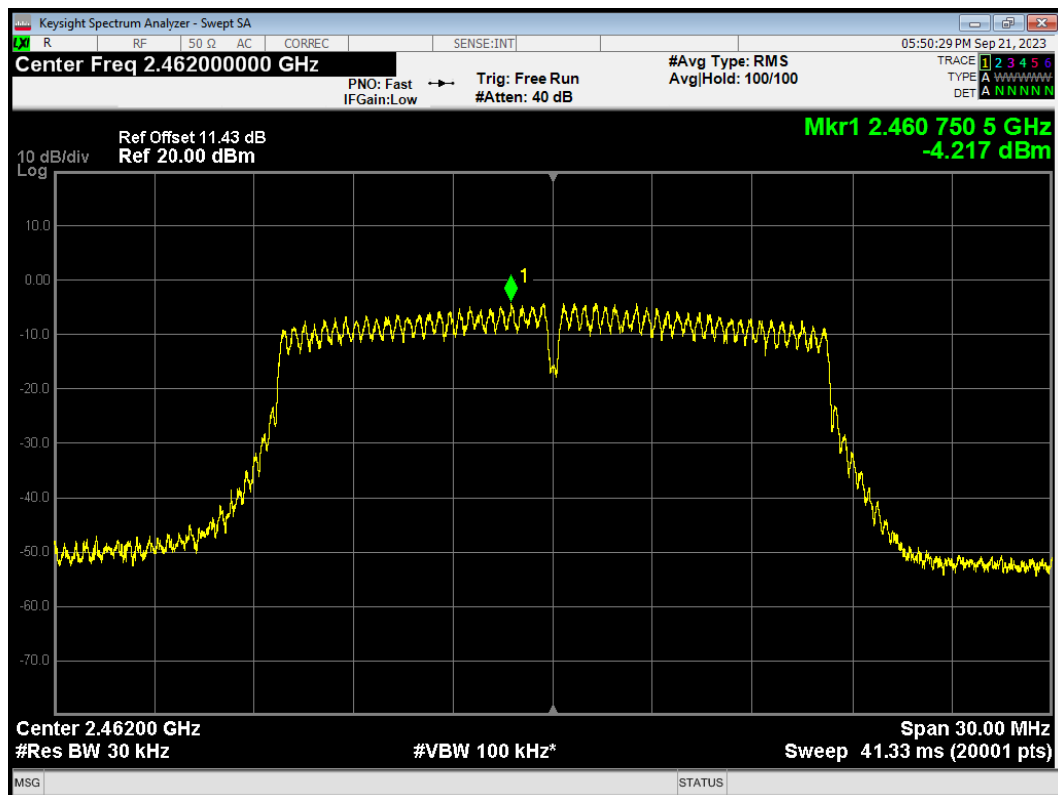
PSD 802.11g 2457MHz Ant1A



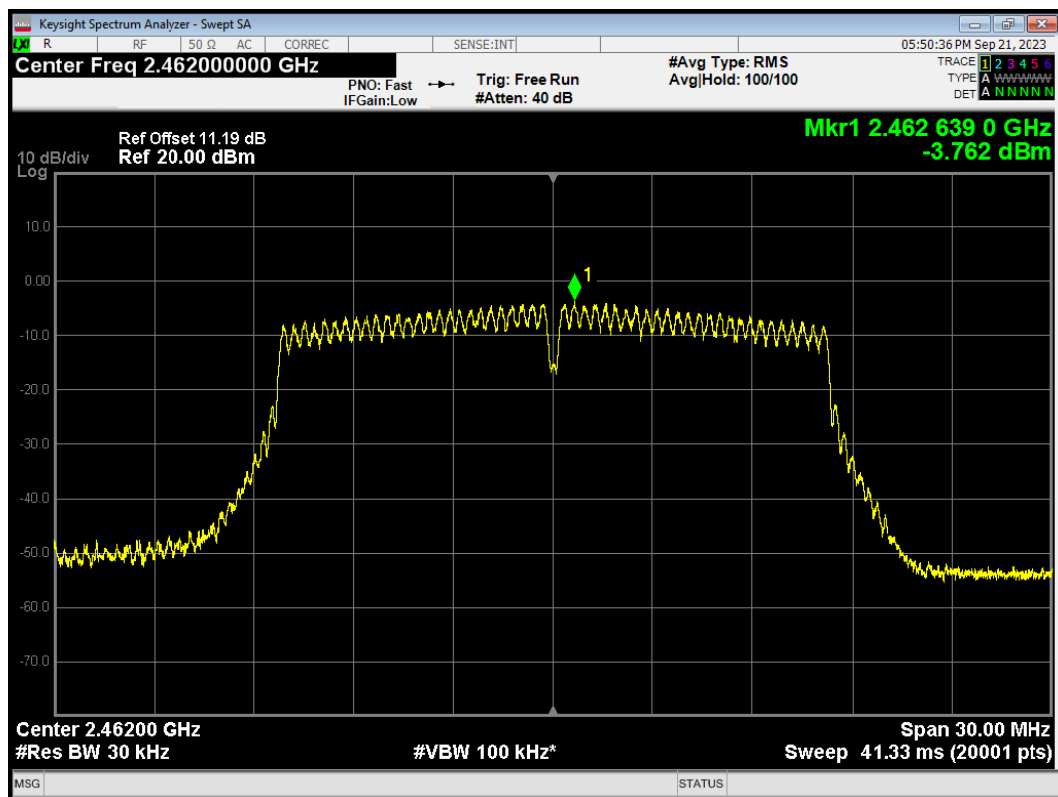
PSD 802.11g 2457MHz Ant2



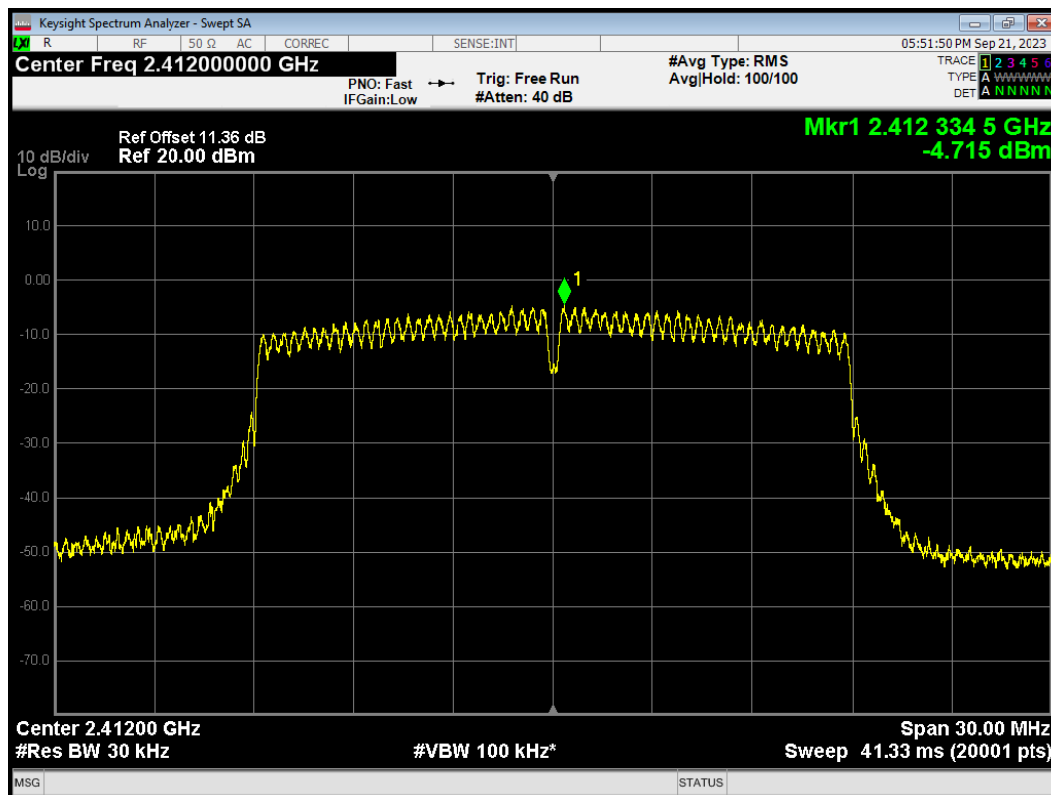
PSD 802.11g 2462MHz Ant1A



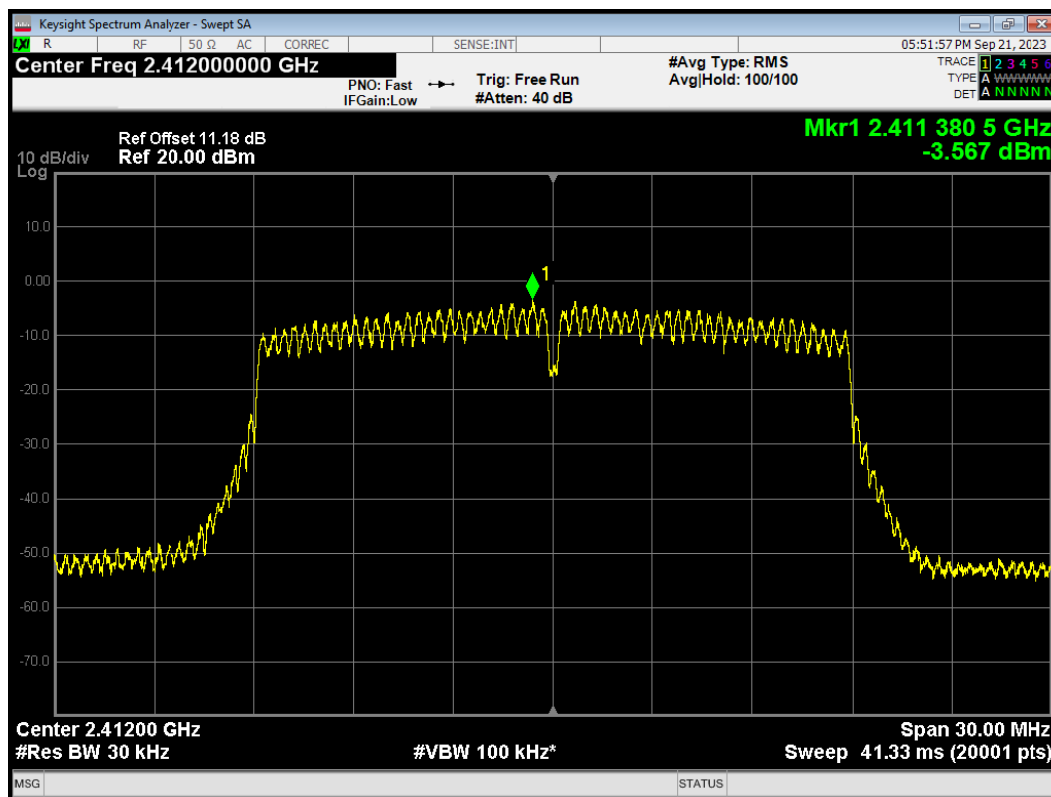
PSD 802.11g 2462MHz Ant2



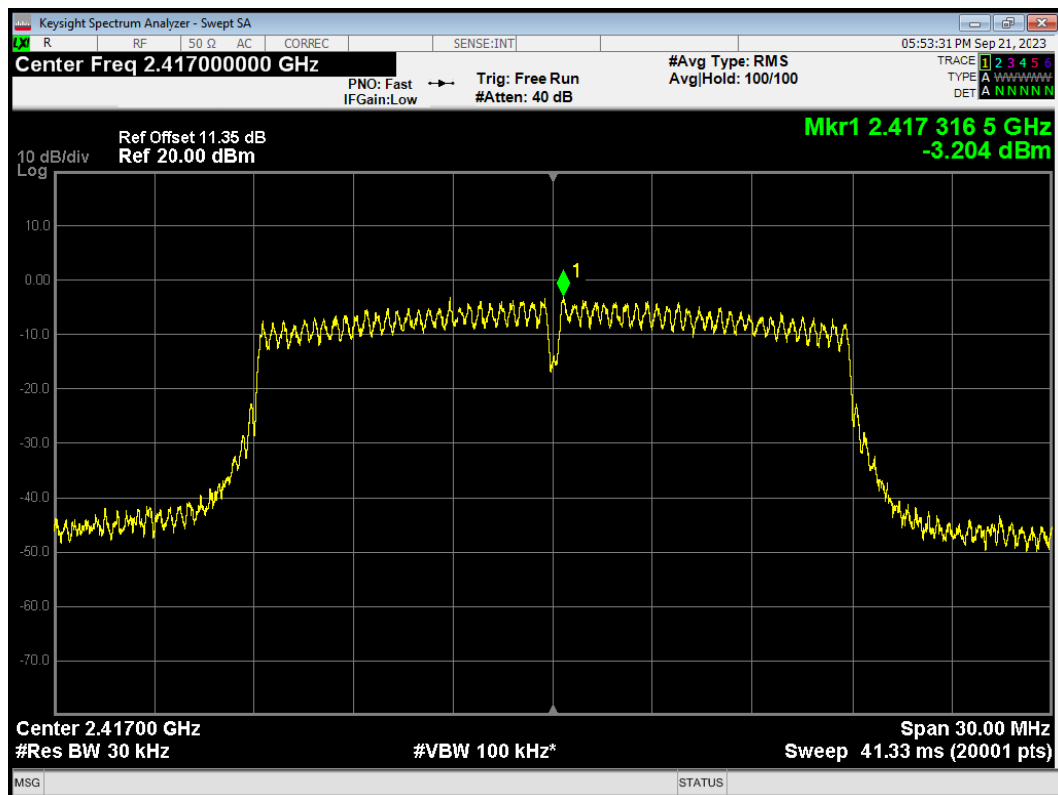
PSD 802.11n(HT20) 2412MHz Ant1A



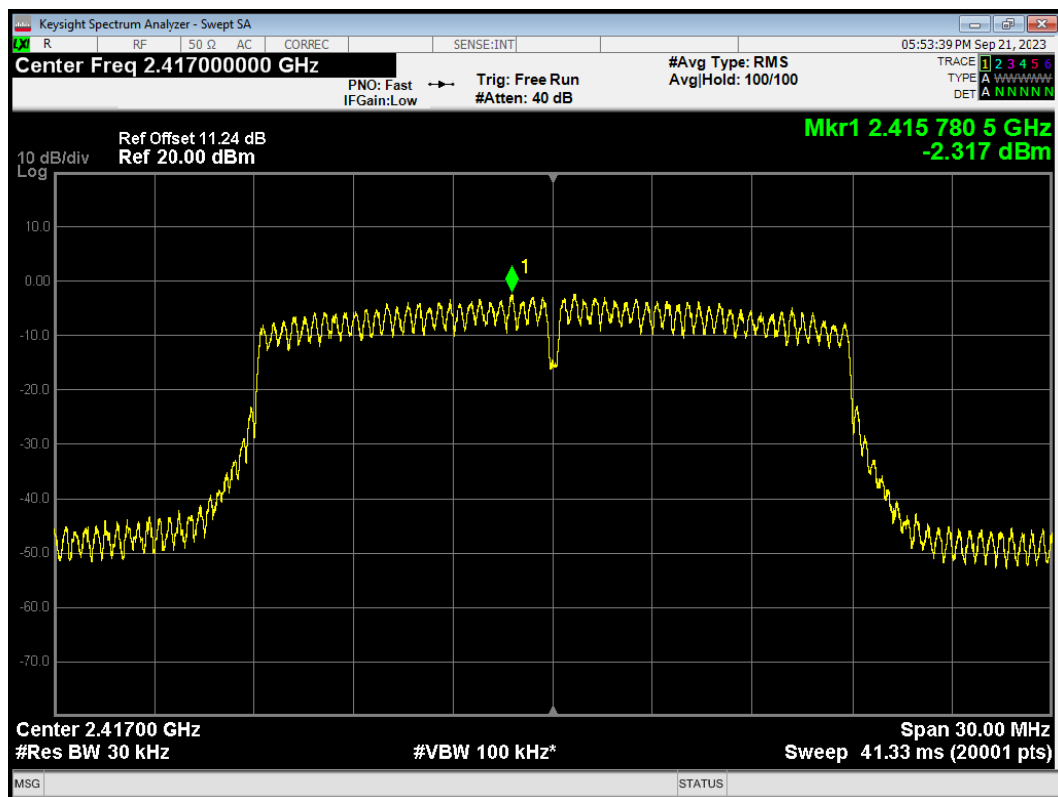
PSD 802.11n(HT20) 2412MHz Ant2



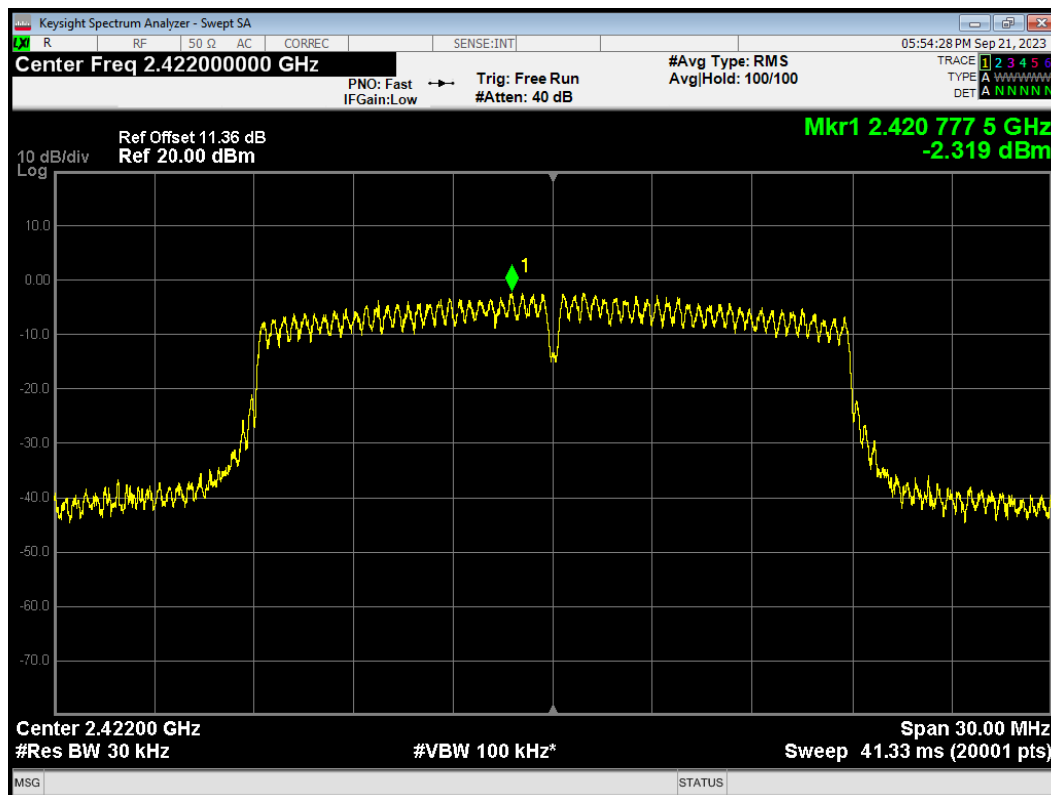
PSD 802.11n(HT20) 2417MHz Ant1A



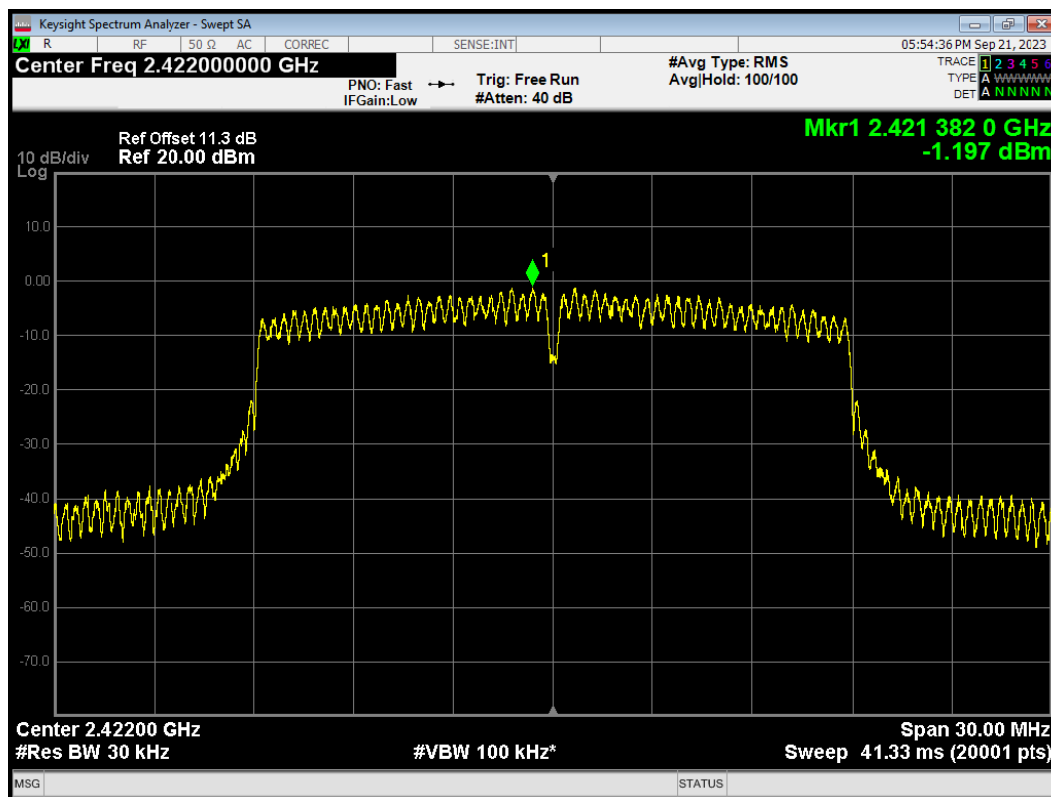
PSD 802.11n(HT20) 2417MHz Ant2



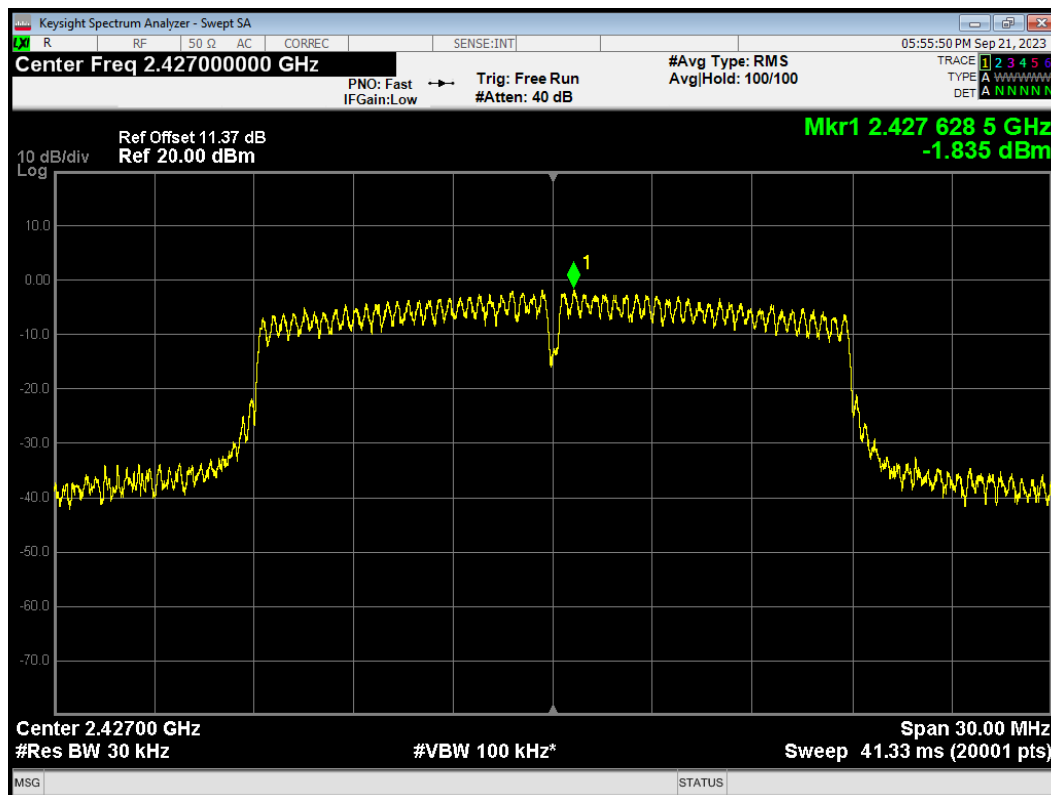
PSD 802.11n(HT20) 2422MHz Ant1A



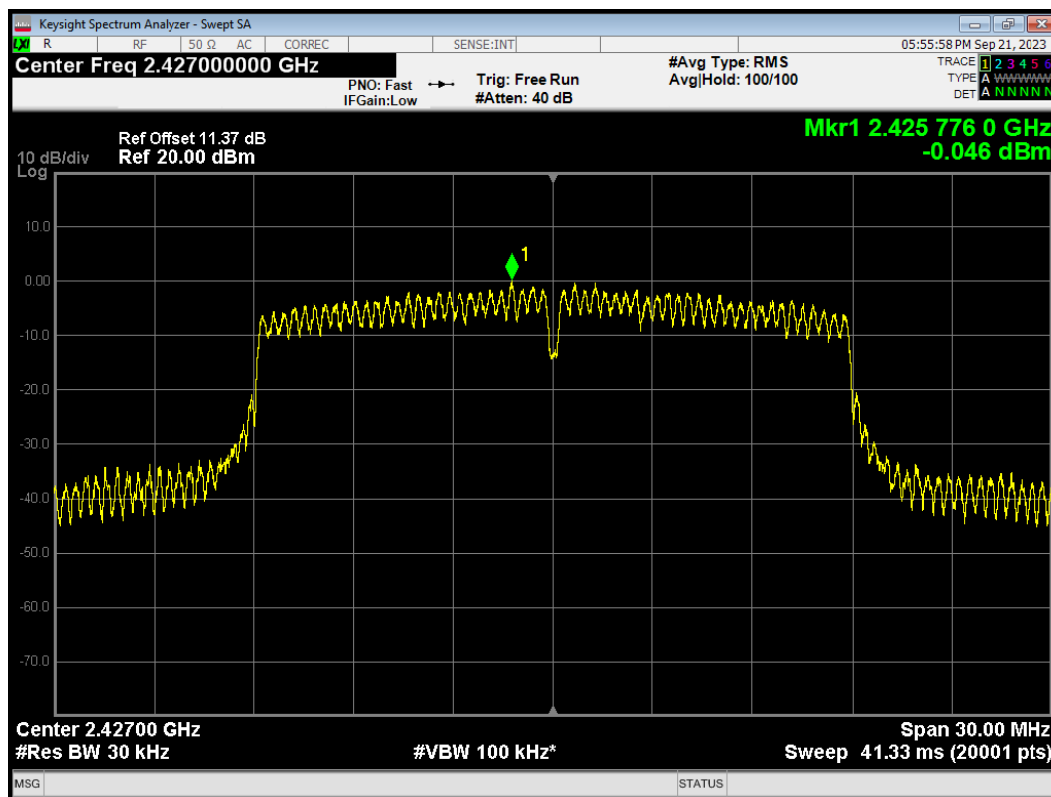
PSD 802.11n(HT20) 2422MHz Ant2



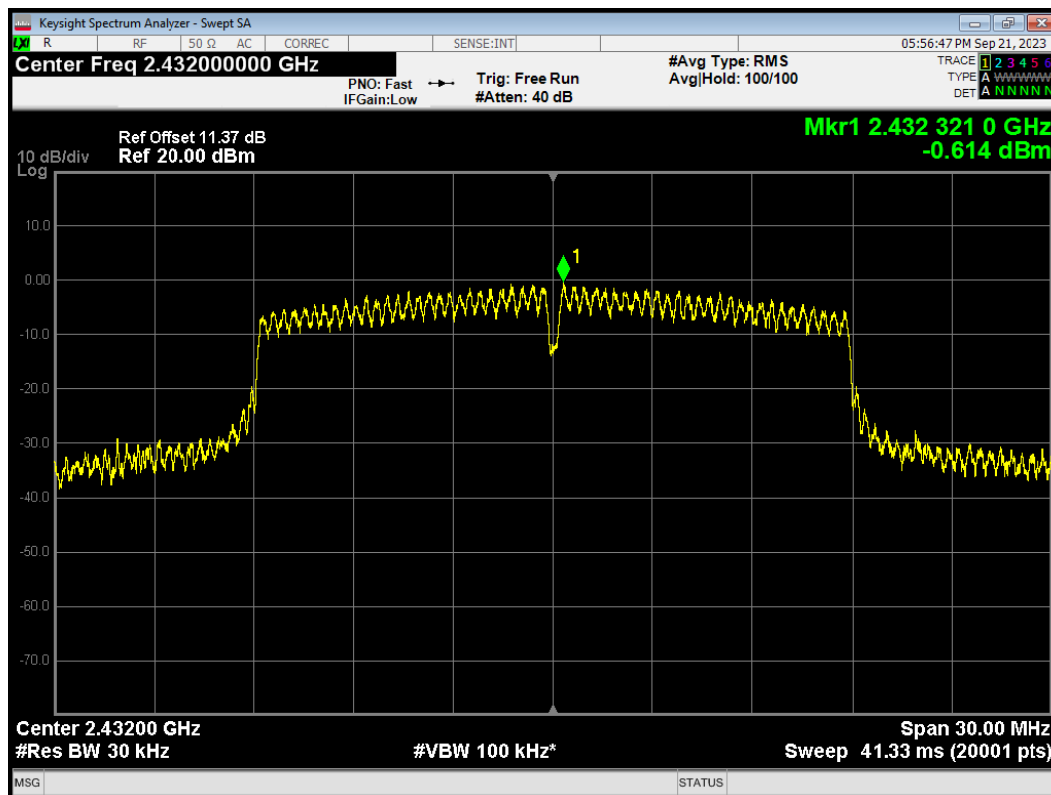
PSD 802.11n(HT20) 2427MHz Ant1A



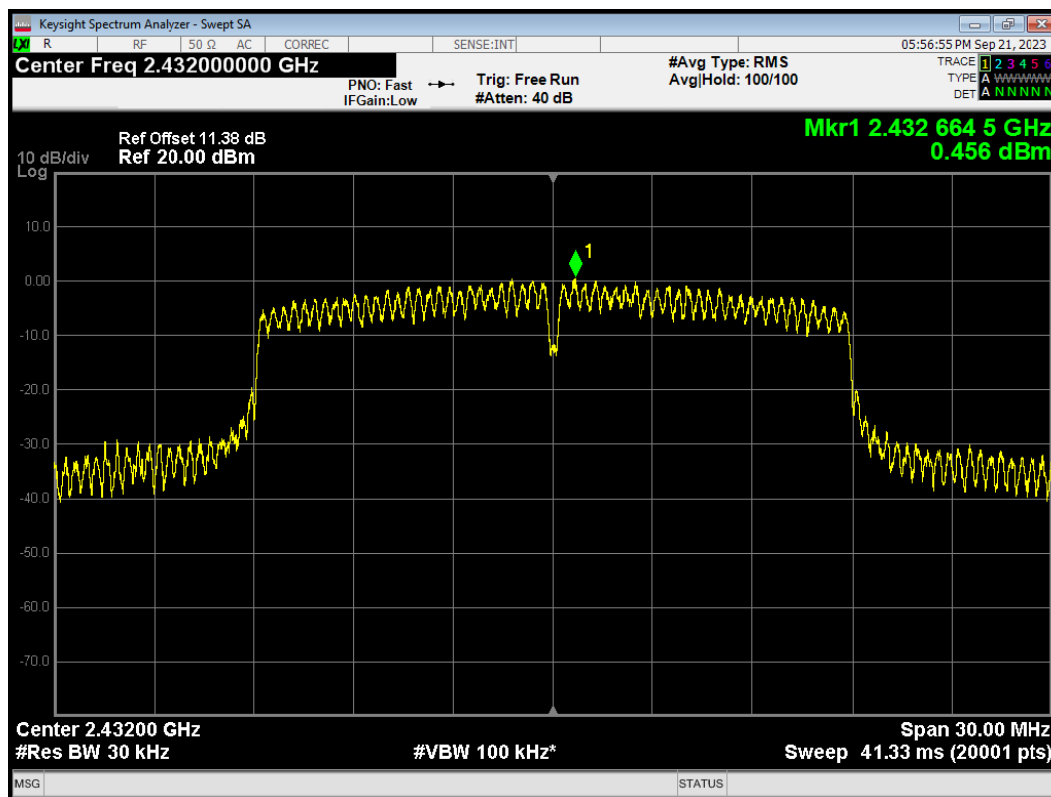
PSD 802.11n(HT20) 2427MHz Ant2



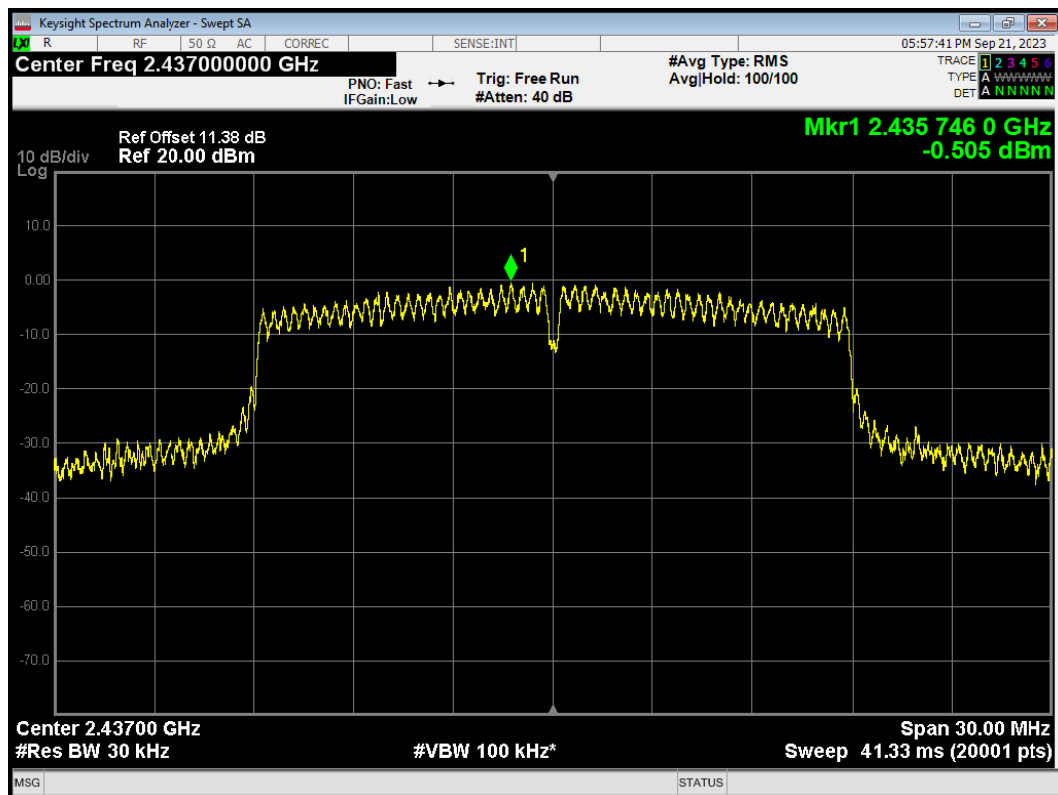
PSD 802.11n(HT20) 2432MHz Ant1A



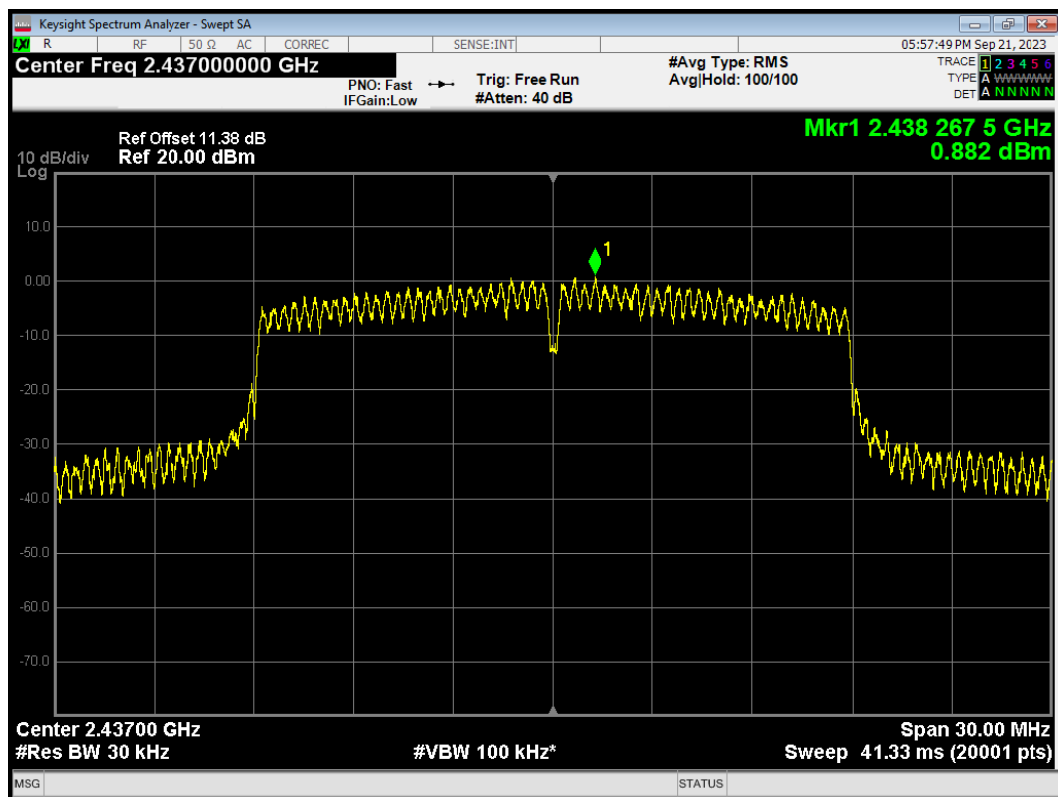
PSD 802.11n(HT20) 2432MHz Ant2



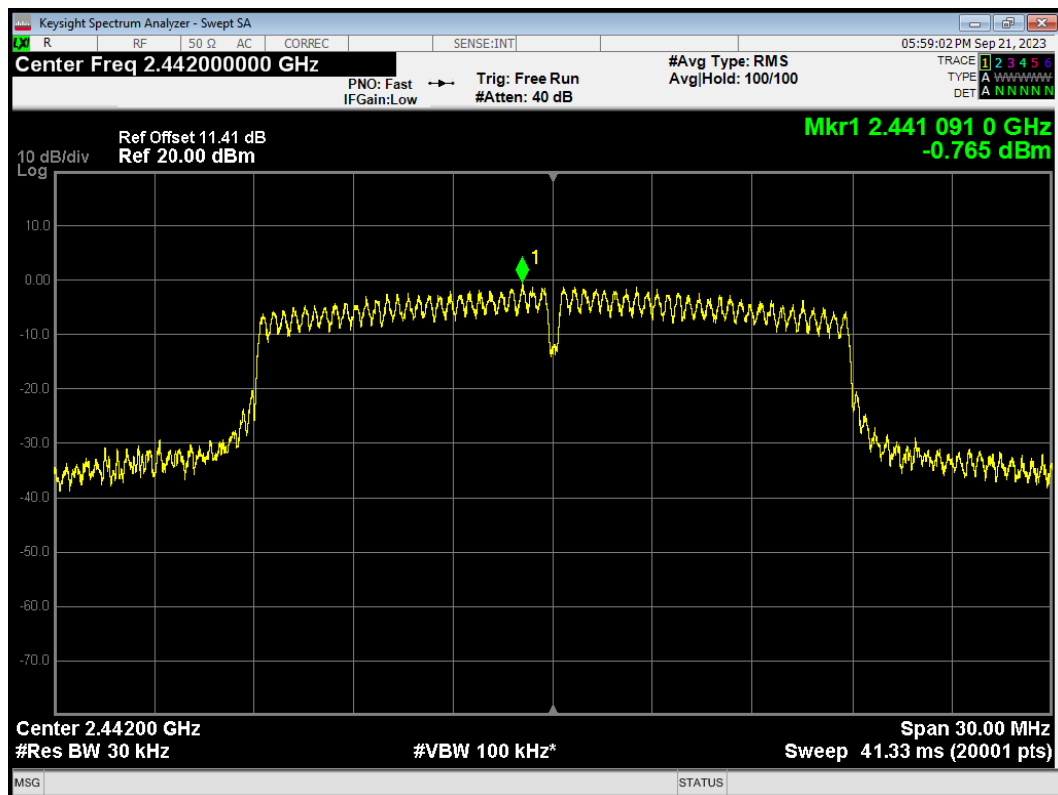
PSD 802.11n(HT20) 2437MHz Ant1A



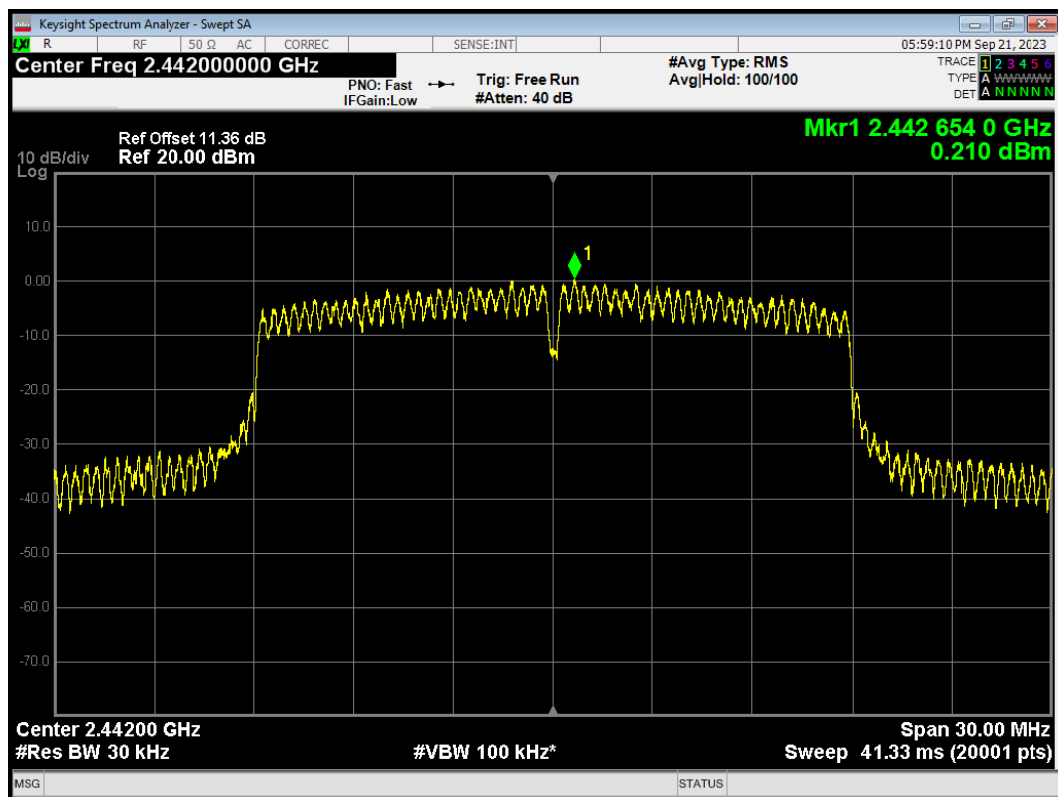
PSD 802.11n(HT20) 2437MHz Ant2



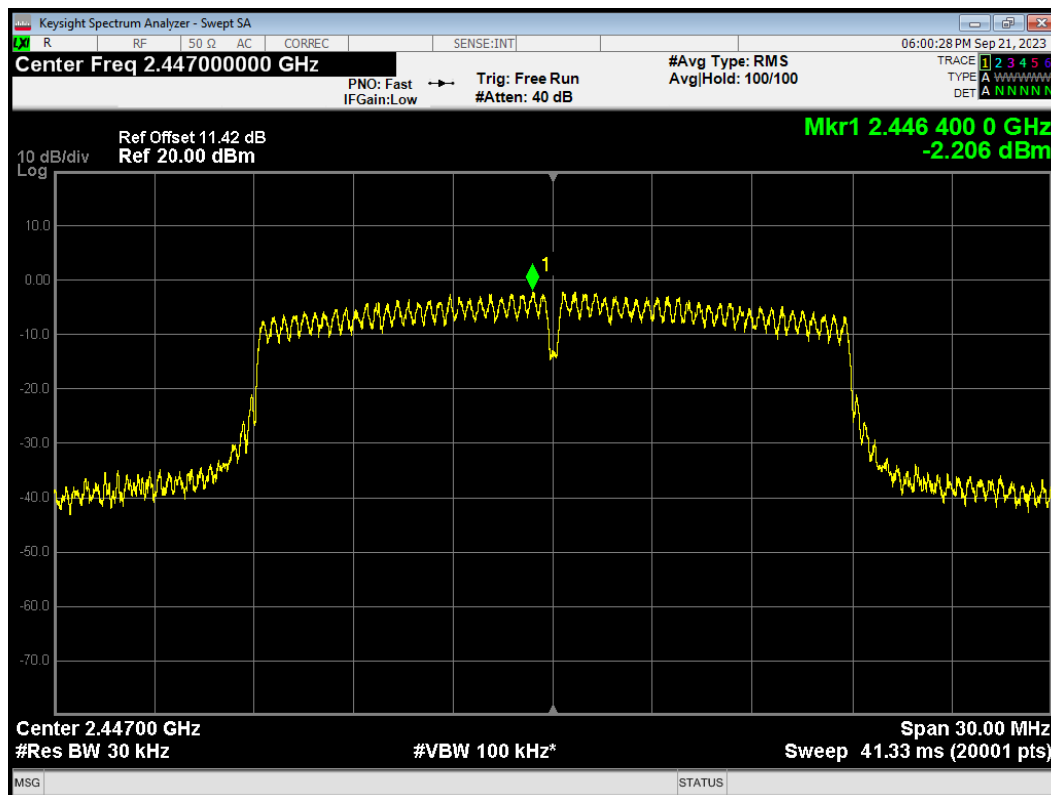
PSD 802.11n(HT20) 2442MHz Ant1A



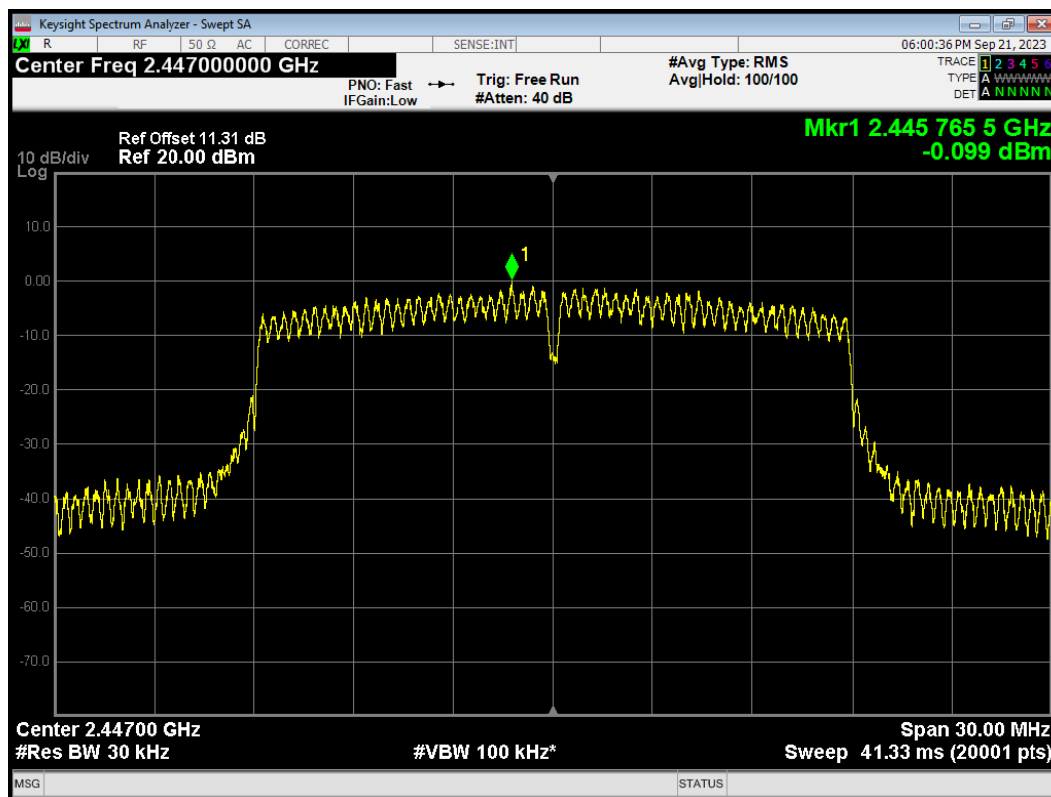
PSD 802.11n(HT20) 2442MHz Ant2



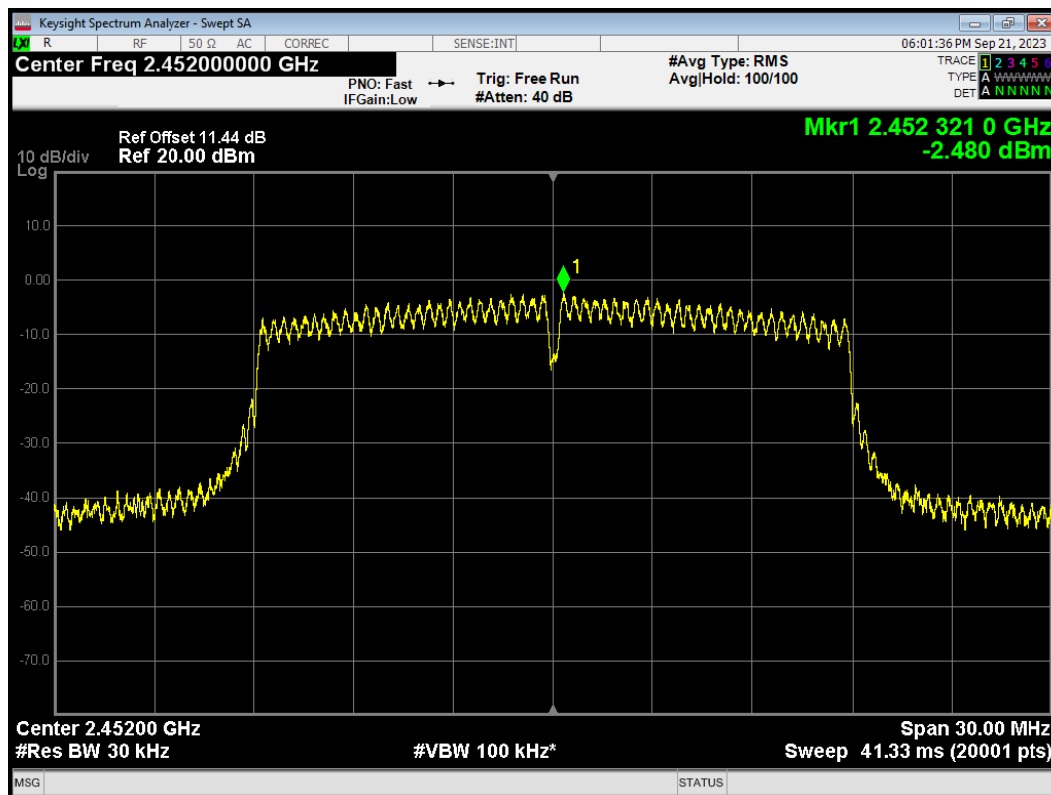
PSD 802.11n(HT20) 2447MHz Ant1A



PSD 802.11n(HT20) 2447MHz Ant2



PSD 802.11n(HT20) 2452MHz Ant1A



PSD 802.11n(HT20) 2452MHz Ant2

