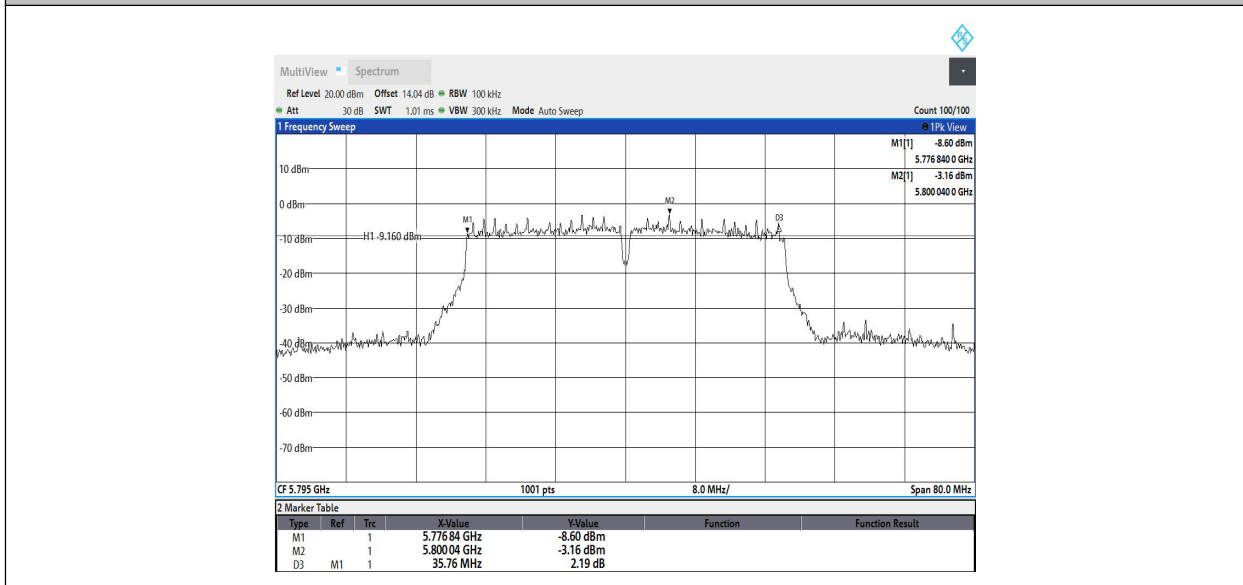


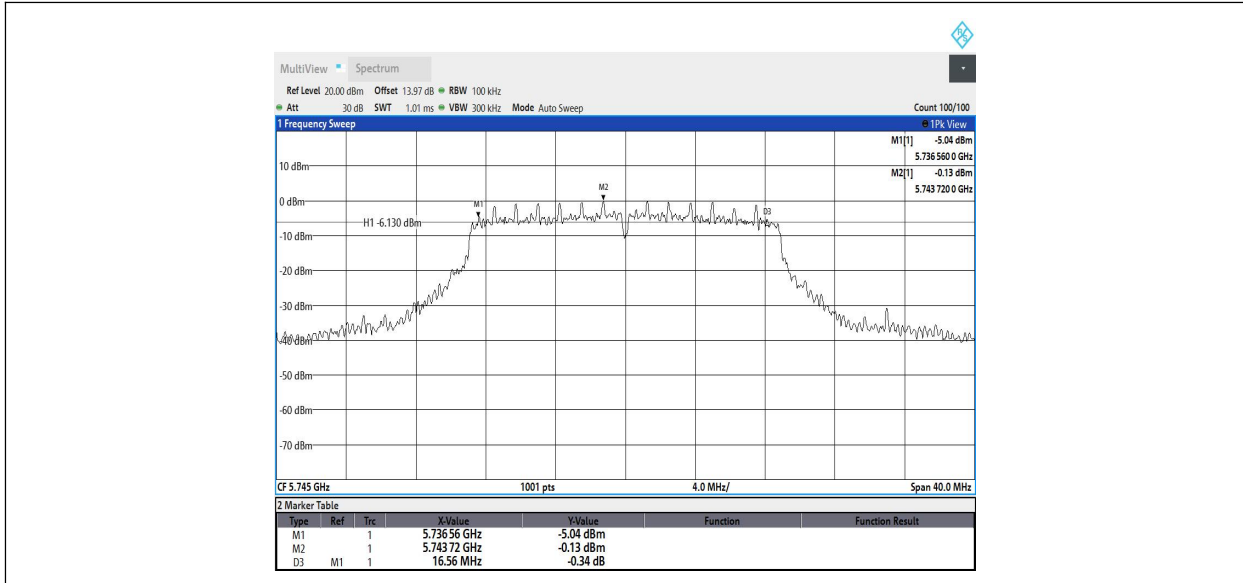
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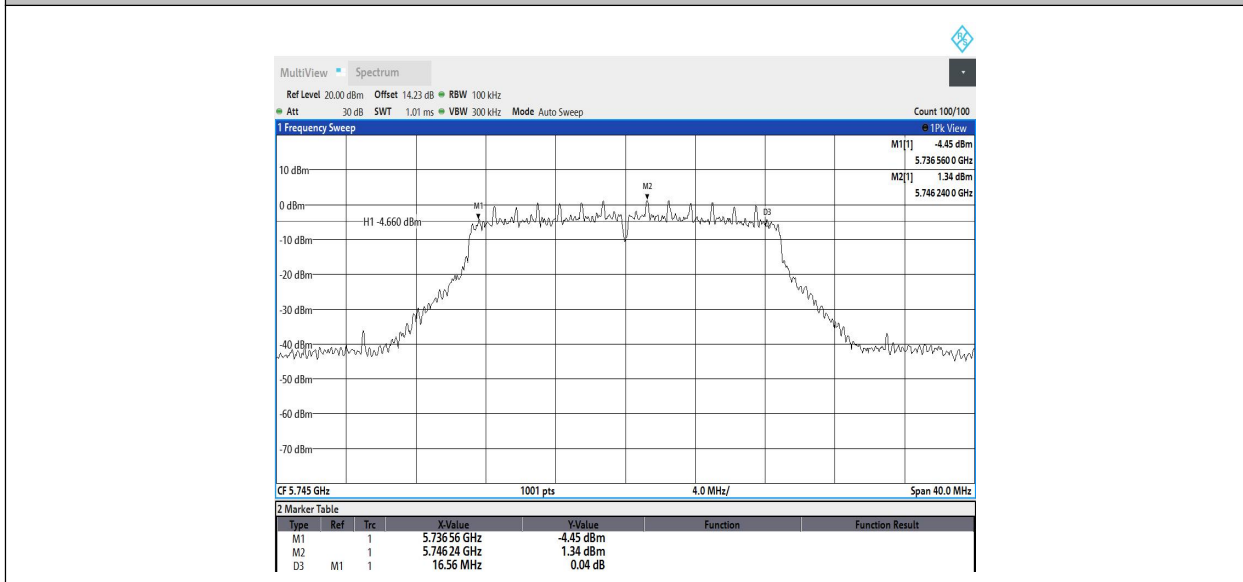
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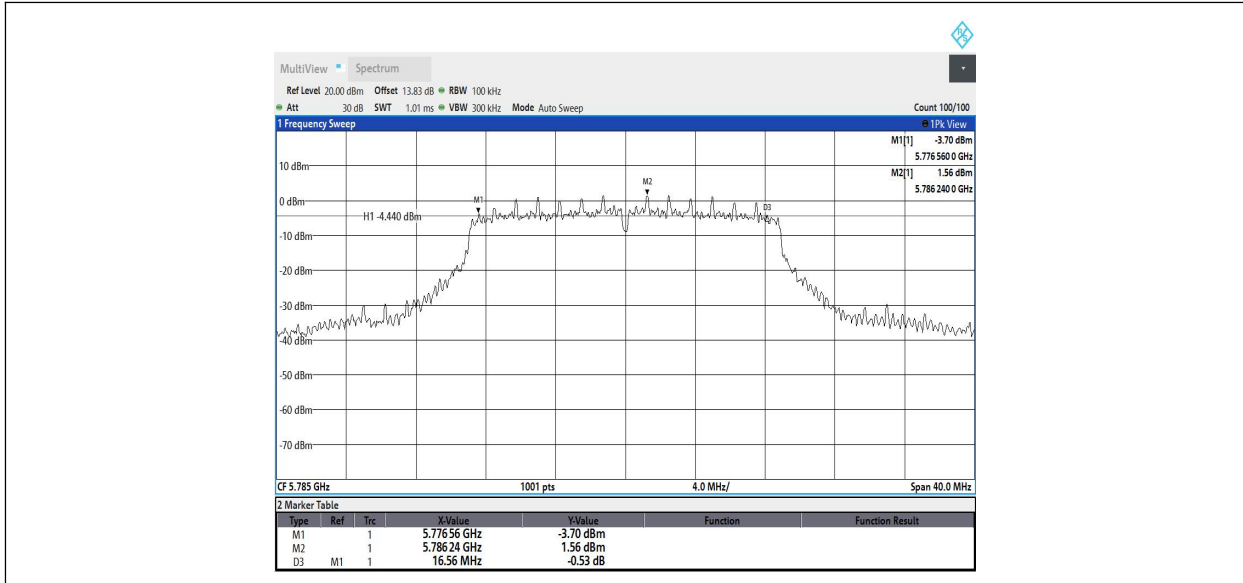
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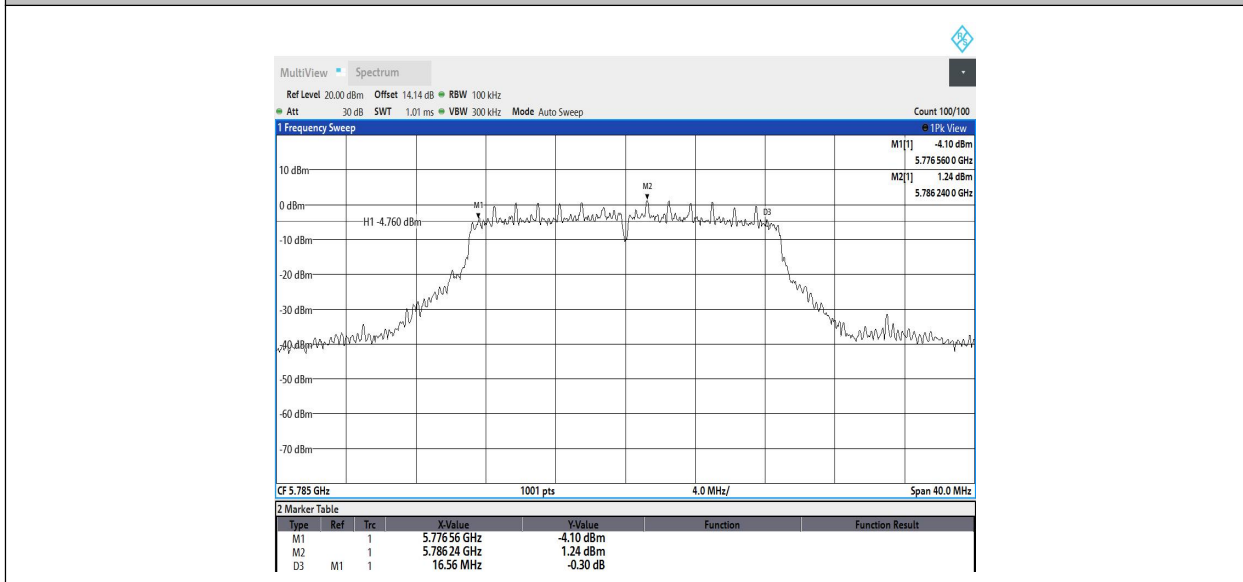
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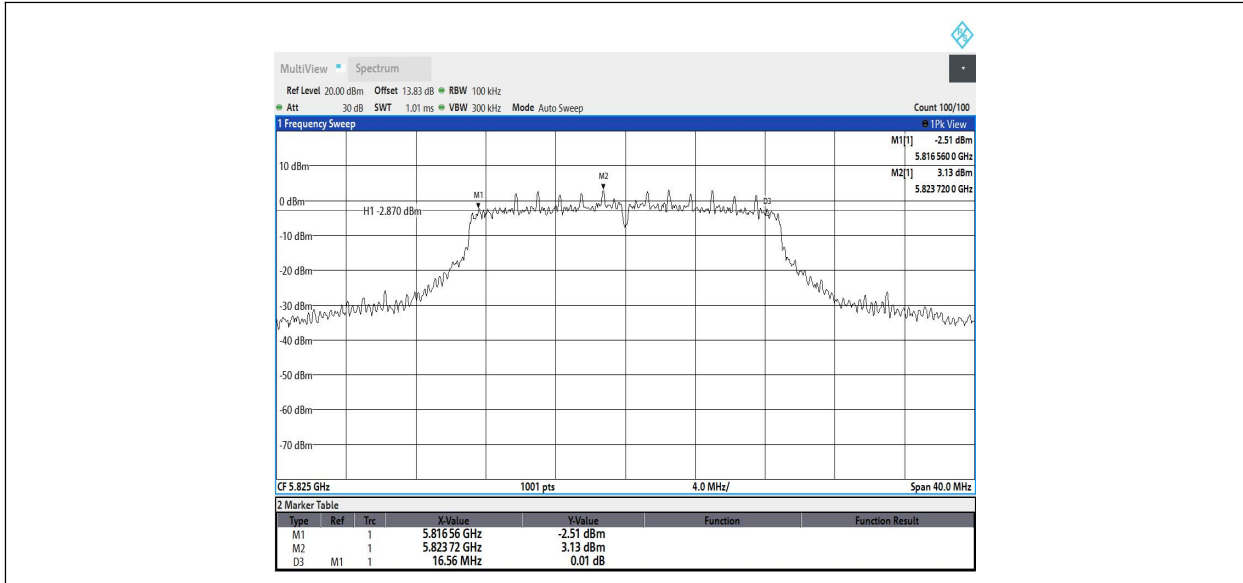
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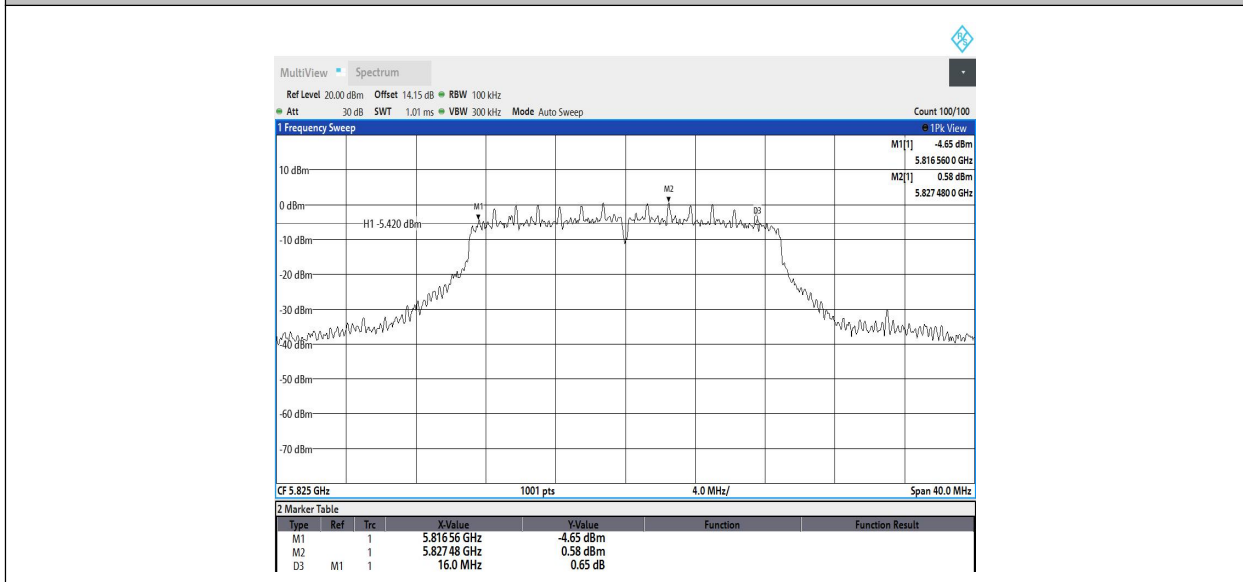
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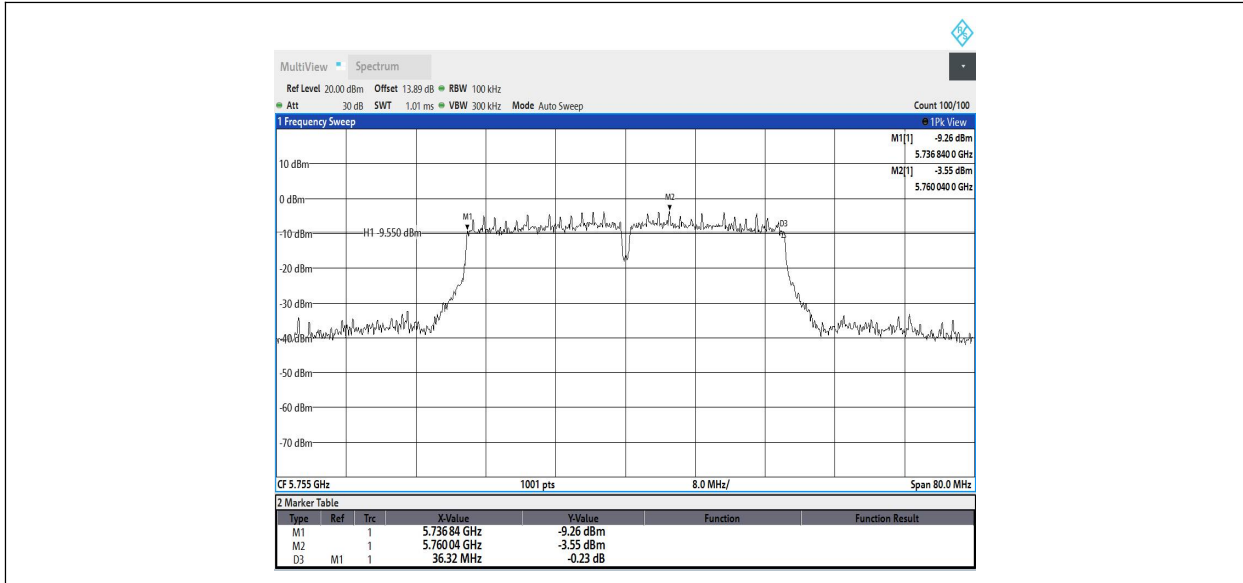
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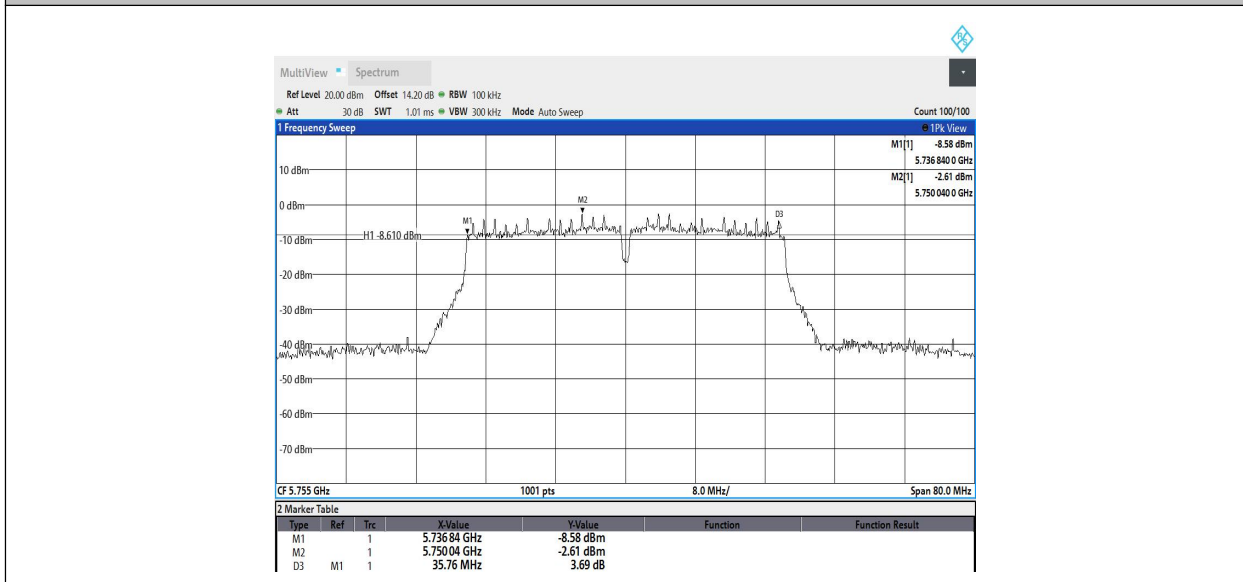
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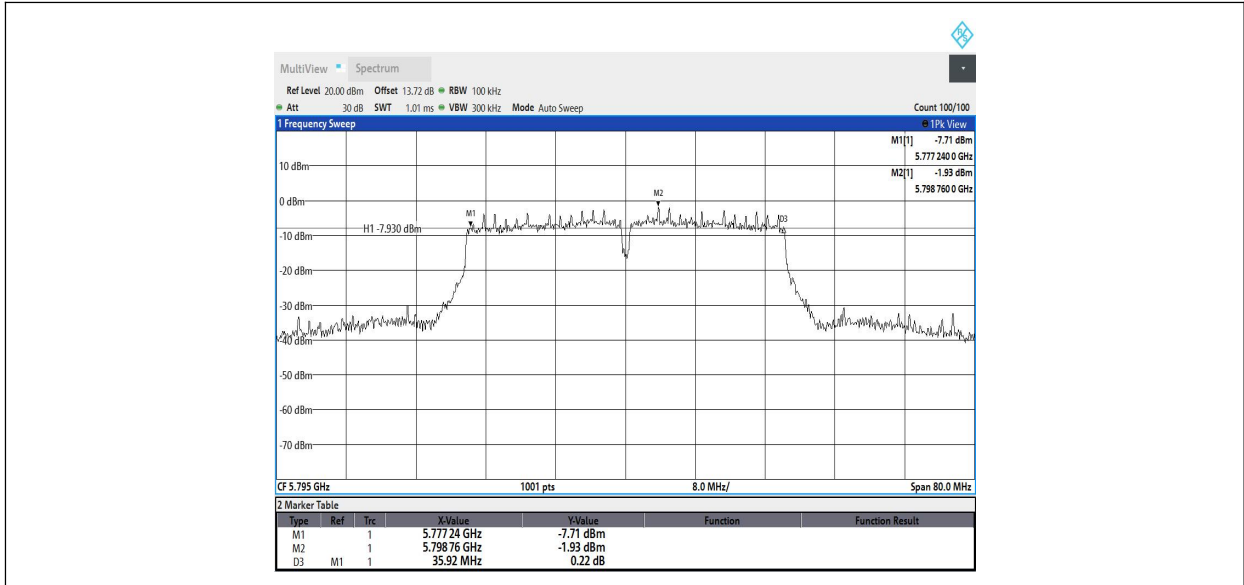
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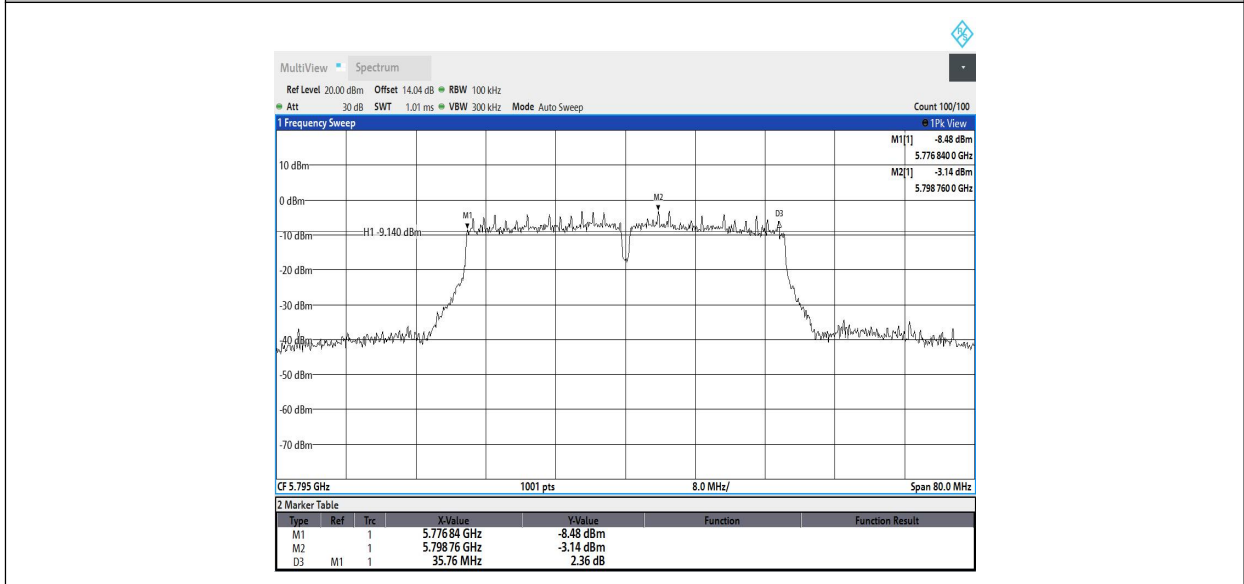
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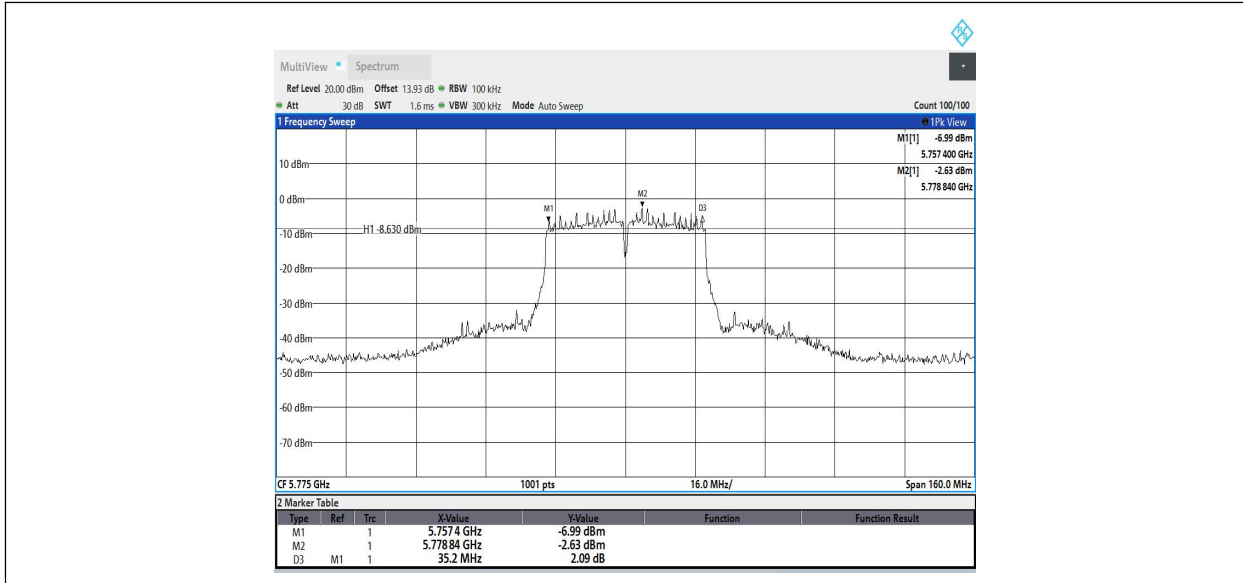
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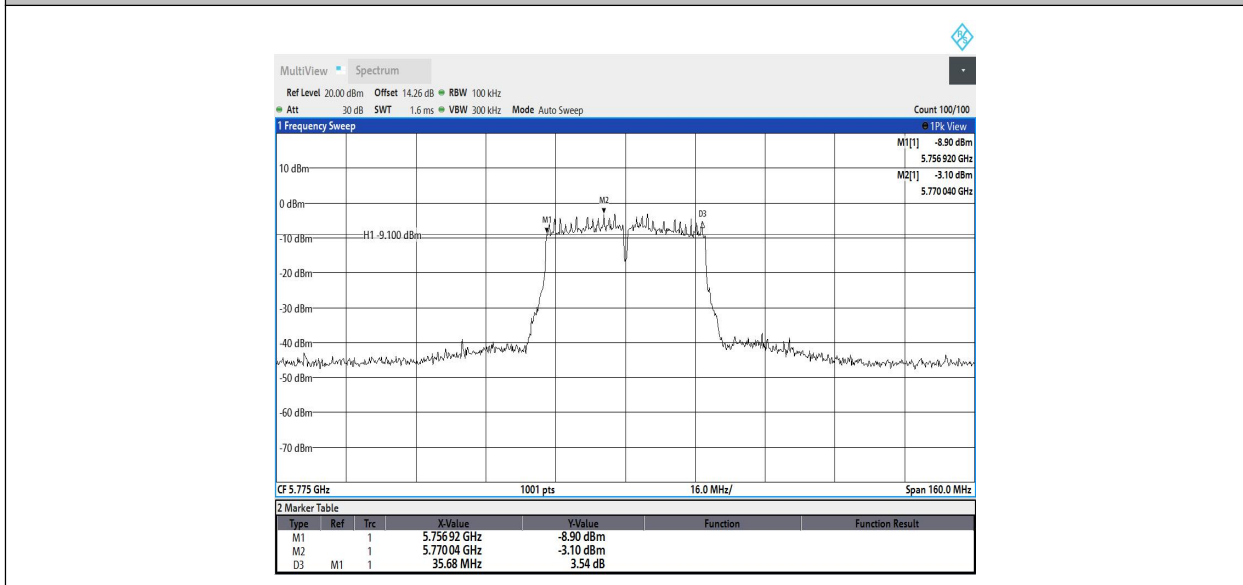
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11AC80SISO_Ant2_5775



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6.4 Maximum conducted output power

Specifications:	FCC CRF Part 15.407(a)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Limit and Method

Standard	Limit (dBm)
FCC CRF Part 15.407(a)	< 30

Measurement Uncertainty:

Measurement Uncertainty	±0.48dB
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The measurement method SA-2 is made according to KDB 789033 E

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. Measure the duty cycle, x, of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz. (iv) Set VBW ≥ 3 MHz.
4. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
5. Sweep time = auto.
6. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run.”
8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
9. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or,

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Report No.: I23W00008-WIFI 5.8G RF

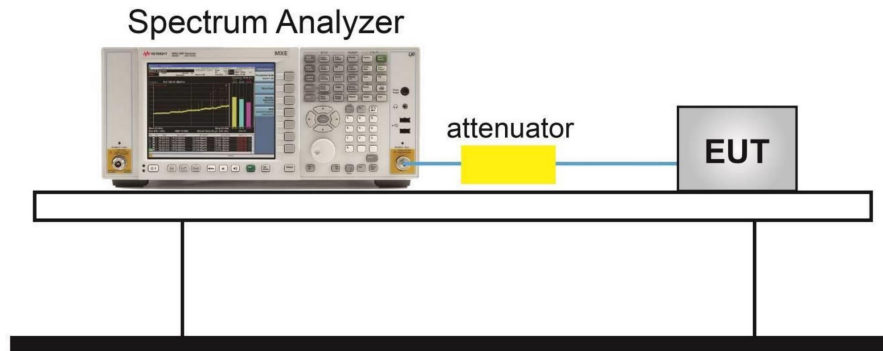
alternatively, the entire 99% occupied bandwidth) of the signal.

2. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6$ dB if the duty cycle is 25%

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Test setup



Antenna gain of EUT

No.	Item(s)	Data
1	Antenna 0 gain of EUT	3.07 dBi
2	Antenna 1 gain of EUT	3.07 dBi

Note: The data is provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

The directional gain results are calculated as follows:

Antenna Type	Frequency Band(MHz)	TX path	Max Antenna Gain(dBi)	CDD Directional Gain (dBi)	
				For Power	For PSD
External Antenna	5180 - 5240MHz 5745 - 5825MHz	2	3.07	3.07	6.08

Note:

The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated. For CDD transmissions, directional gain is calculated as follows, $NANT = 2, Nss = 1$.

If all antennas have the same gain, $GANT$, Directional gain = $GaNr + \text{Array Gain}$, where Array Gain is as follows.

a. For power spectral density (PSD) measurements on all devices,

$$\text{Array Gain} = 10 \log(NANT/ Nss) \text{ dB} = 3.01;$$

b. For power measurements on IEEE 802.11 devices,

$$\text{Array Gain} = 0 \text{ dB for } NANT \leq 4$$

Test Result Channel Power

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SISO

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]
11A	Ant1	5745	10.55	98.57	0.06	10.61	≤30.00	3.07	13.68
	Ant2	5745	11.16	98.57	0.06	11.22	≤30.00	3.07	14.29
	Ant1	5785	11.74	98.10	0.08	11.82	≤30.00	3.07	14.89
	Ant2	5785	11.15	98.10	0.08	11.23	≤30.00	3.07	14.30
	Ant1	5825	13.32	98.10	0.08	13.40	≤30.00	3.07	16.47
	Ant2	5825	10.54	98.57	0.06	10.60	≤30.00	3.07	13.67
11N20SISO	Ant1	5745	10.35	97.96	0.09	10.44	≤30.00	3.07	13.51
	Ant2	5745	11.17	98.47	0.07	11.24	≤30.00	3.07	14.31
	Ant1	5785	11.58	97.97	0.09	11.67	≤30.00	3.07	14.74
	Ant2	5785	11.16	98.47	0.07	11.23	≤30.00	3.07	14.30
	Ant1	5825	13.14	97.96	0.09	13.23	≤30.00	3.07	16.30
	Ant2	5825	10.46	97.96	0.09	10.55	≤30.00	3.07	13.62
11N40SISO	Ant1	5755	4.90	95.96	0.18	5.08	≤30.00	3.07	8.15
	Ant2	5755	4.88	95.92	0.18	5.06	≤30.00	3.07	8.13
	Ant1	5795	6.09	96.94	0.13	6.22	≤30.00	3.07	9.29
	Ant2	5795	4.74	95.92	0.18	4.92	≤30.00	3.07	7.99
11AC20SISO	Ant1	5745	10.30	98.48	0.07	10.37	≤30.00	3.07	13.44
	Ant2	5745	11.23	97.97	0.09	11.32	≤30.00	3.07	14.39
	Ant1	5785	11.42	97.97	0.09	11.51	≤30.00	3.07	14.58
	Ant2	5785	11.22	97.97	0.09	11.31	≤30.00	3.07	14.38
	Ant1	5825	13.07	97.97	0.09	13.16	≤30.00	3.07	16.23
	Ant2	5825	10.52	97.97	0.09	10.61	≤30.00	3.07	13.68
11AC40SISO	Ant1	5755	4.67	95.96	0.18	4.85	≤30.00	3.07	7.92
	Ant2	5755	4.86	96.94	0.13	4.99	≤30.00	3.07	8.06
	Ant1	5795	6.07	95.96	0.18	6.25	≤30.00	3.07	9.32
	Ant2	5795	4.72	95.96	0.18	4.90	≤30.00	3.07	7.97
11AC80SISO	Ant1	5775	5.64	95.96	0.18	5.82	≤30.00	3.07	8.89
	Ant2	5775	4.85	95.96	0.18	5.03	≤30.00	3.07	8.10

MIMO

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]
11A-CDD	Ant1	5745	10.54	98.10	0.08	10.62	≤30.00	3.07	13.69
	Ant2	5745	11.20	98.10	0.08	11.28	≤30.00	3.07	14.35
	total	5745	---	---	---	13.97	≤30.00	---	17.04
	Ant1	5785	11.68	98.10	0.08	11.76	≤30.00	3.07	14.83

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	Ant2	5785	11.16	98.10	0.08	11.24	≤30.00	3.07	14.31
	total	5785	---	---	---	14.52	≤30.00	---	17.59
	Ant1	5825	13.33	98.10	0.08	13.41	≤30.00	3.07	16.48
	Ant2	5825	10.48	98.57	0.06	10.54	≤30.00	3.07	13.61
	total	5825	---	---	---	15.22	≤30.00	---	18.29
11N20MIMO	Ant1	5745	10.51	98.10	0.08	10.59	≤30.00	3.07	13.66
	Ant2	5745	11.27	98.10	0.08	11.35	≤30.00	3.07	14.42
	total	5745	---	---	---	14.00	≤30.00	---	17.07
	Ant1	5785	11.73	98.10	0.08	11.81	≤30.00	3.07	14.88
	Ant2	5785	11.09	98.10	0.08	11.17	≤30.00	3.07	14.24
	total	5785	---	---	---	14.51	≤30.00	---	17.58
	total	5825	---	---	---	15.08	≤30.00	---	18.15
11N40MIMO	Ant1	5755	5.02	95.92	0.18	5.20	≤30.00	3.07	8.27
	Ant2	5755	4.67	96.94	0.13	4.80	≤30.00	3.07	7.87
	total	5755	---	---	---	8.01	≤30.00	---	11.08
	Ant1	5795	6.17	95.96	0.18	6.35	≤30.00	3.07	9.42
	total	5795	---	---	---	8.58	≤30.00	---	11.65
11AC20MIMO	Ant1	5745	10.35	96.12	0.17	10.52	≤30.00	3.07	13.59
	Ant2	5745	11.12	96.12	0.17	11.29	≤30.00	3.07	14.36
	total	5745	---	---	---	13.93	≤30.00	---	17.00
	Ant1	5785	11.58	96.12	0.17	11.75	≤30.00	3.07	14.82
	Ant2	5785	10.98	96.12	0.17	11.15	≤30.00	3.07	14.22
	total	5785	---	---	---	14.47	≤30.00	---	17.54
	total	5825	---	---	---	15.16	≤30.00	---	18.23
11AC40MIMO	Ant1	5755	4.91	92.59	0.33	5.24	≤30.00	3.07	8.31
	Ant2	5755	4.53	92.59	0.33	4.86	≤30.00	3.07	7.93
	total	5755	---	---	---	8.06	≤30.00	---	11.13
	Ant1	5795	6.12	92.59	0.33	6.45	≤30.00	3.07	9.52
	total	5795	---	---	---	8.70	≤30.00	---	11.77
11AC80MIMO	Ant1	5775	5.76	92.59	0.33	6.09	≤30.00	3.07	9.16
	Ant2	5775	4.54	92.59	0.33	4.87	≤30.00	3.07	7.94
	total	5775	---	---	---	8.53	≤30.00	---	11.6

Note: The Duty Cycle Factor is compensated in the graph.

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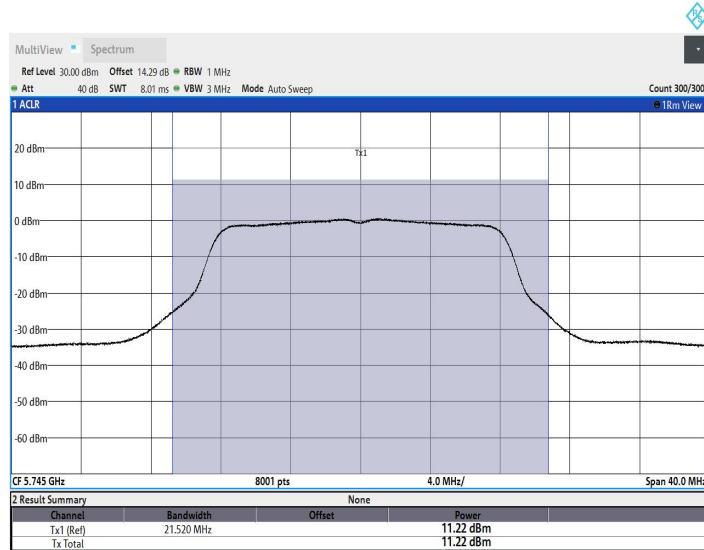


Test Graphs Channel Power

11A_Ant1_5745



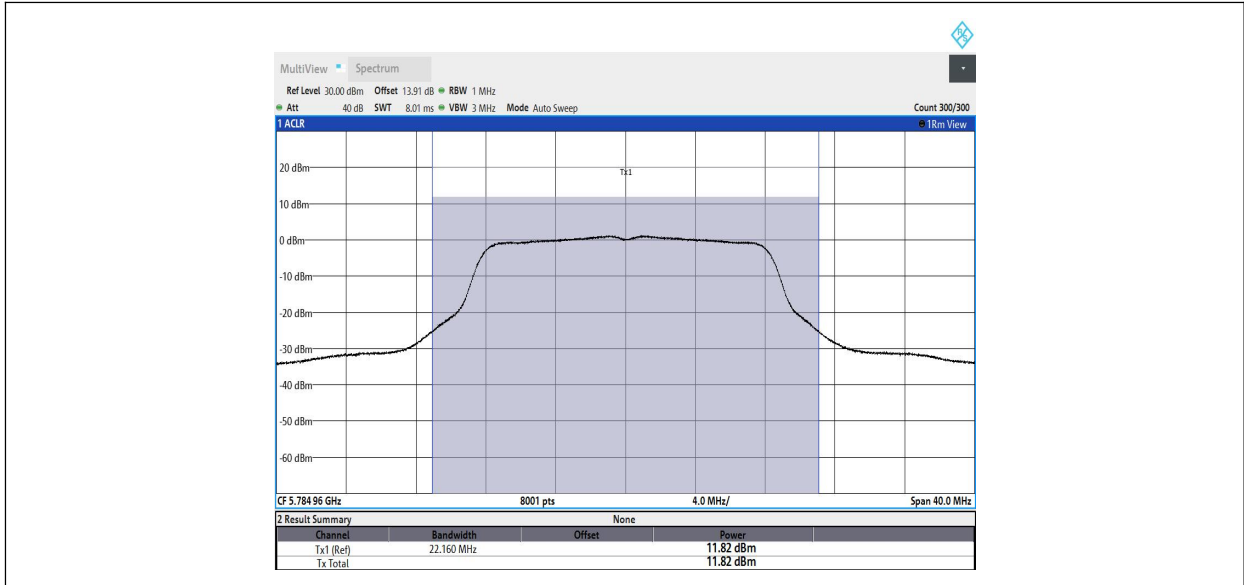
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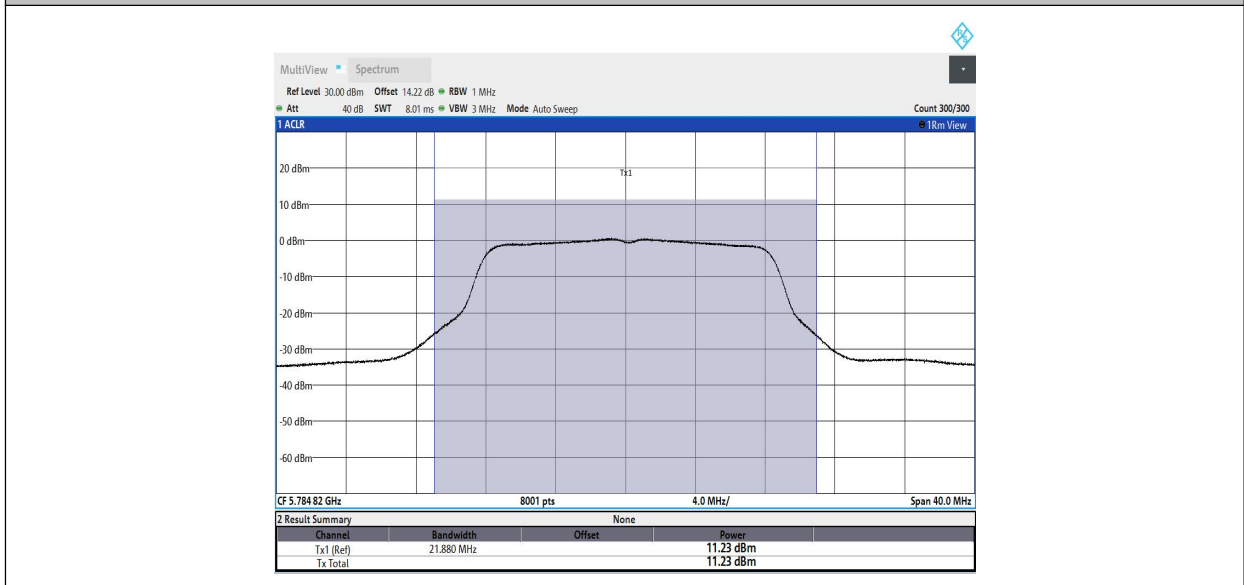
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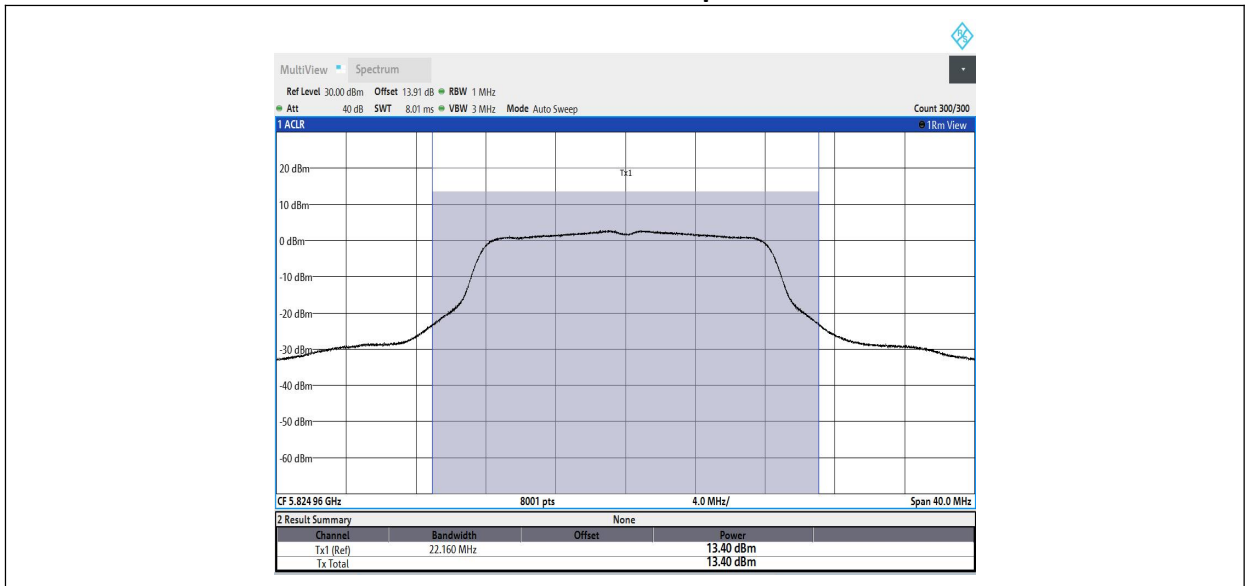
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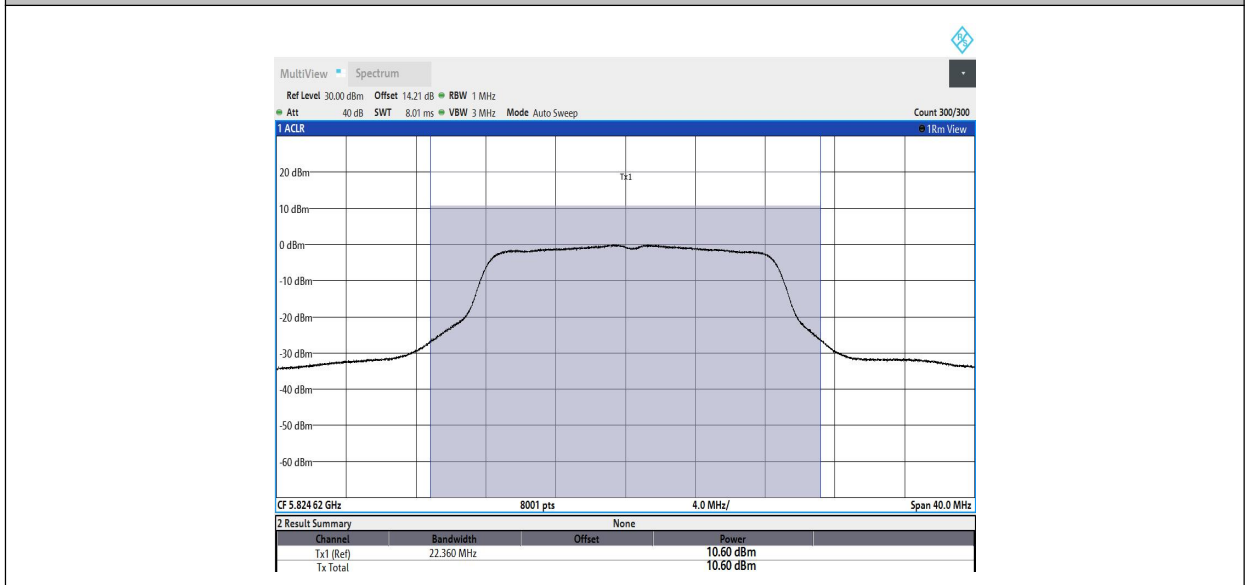
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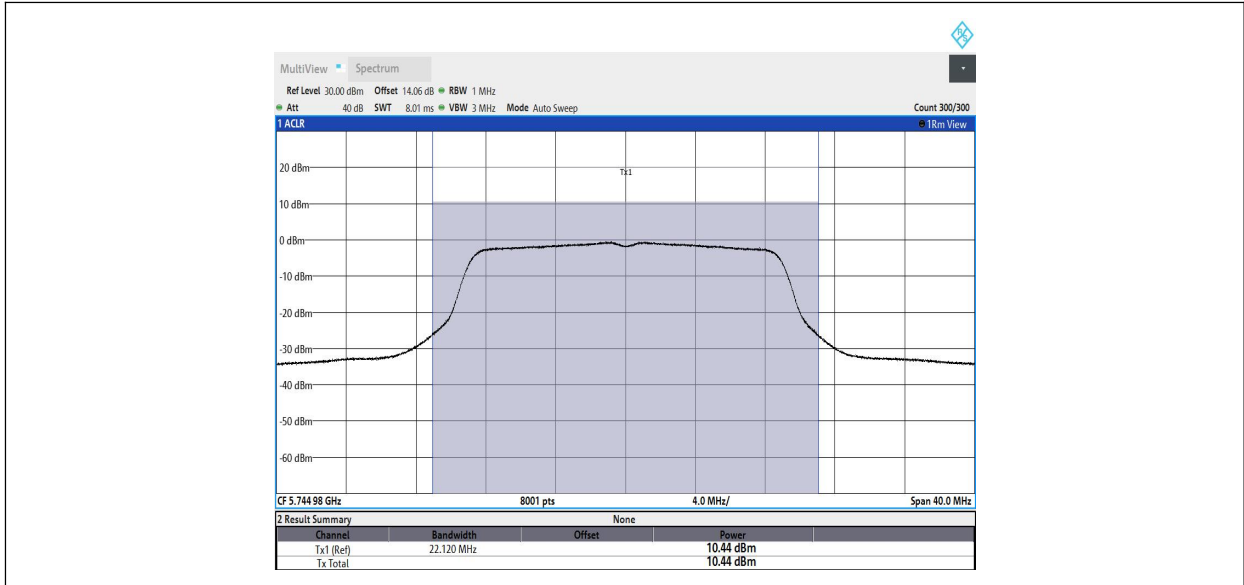
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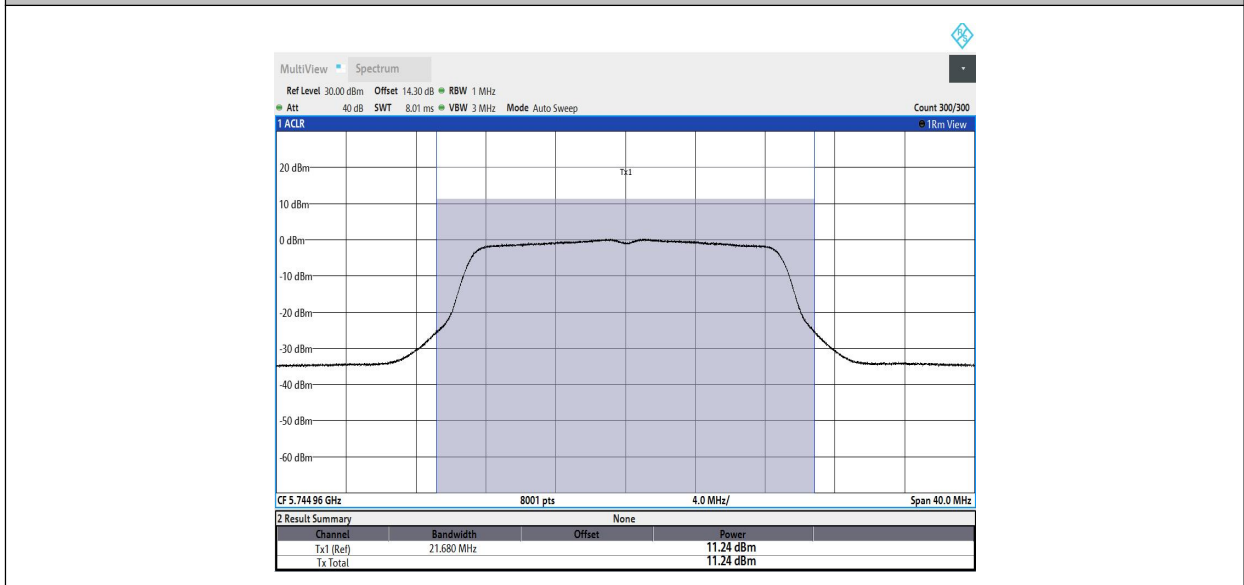
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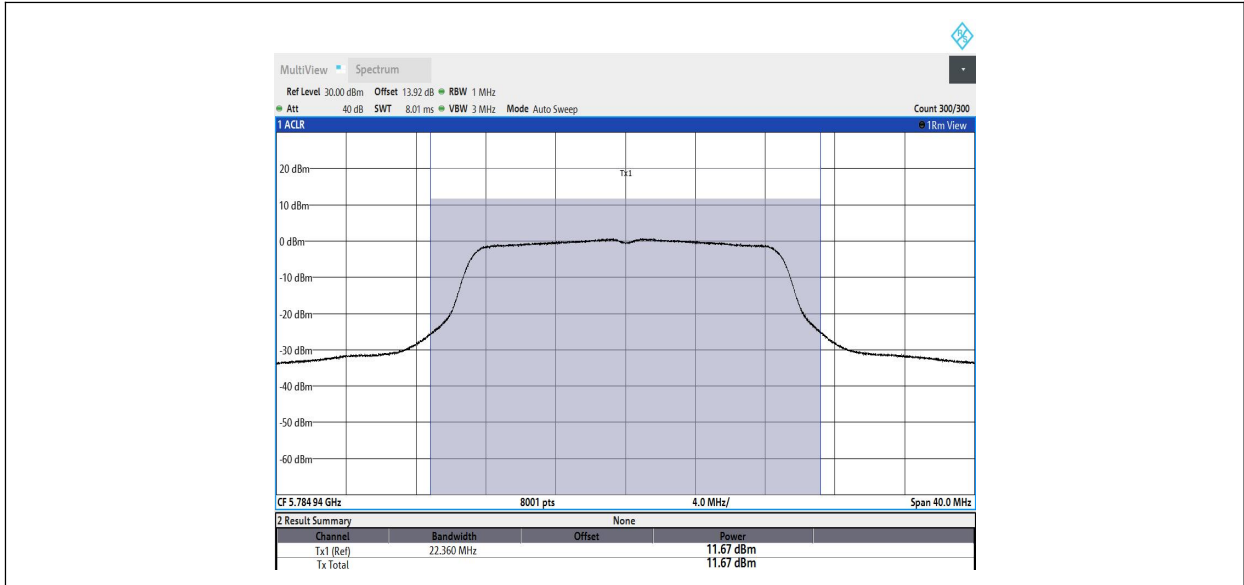
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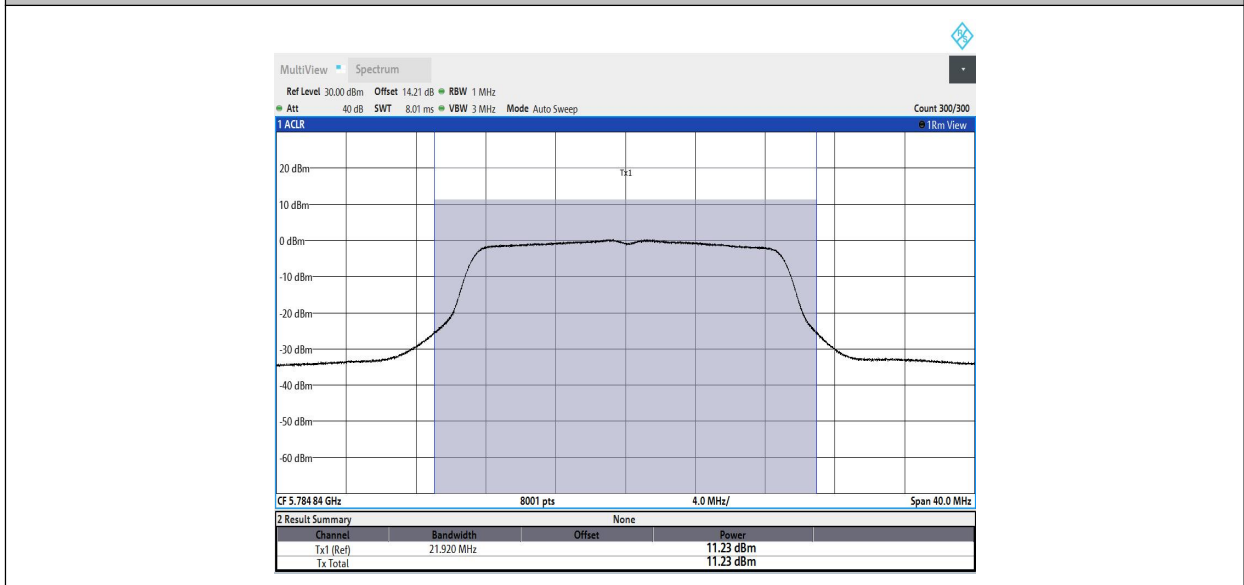
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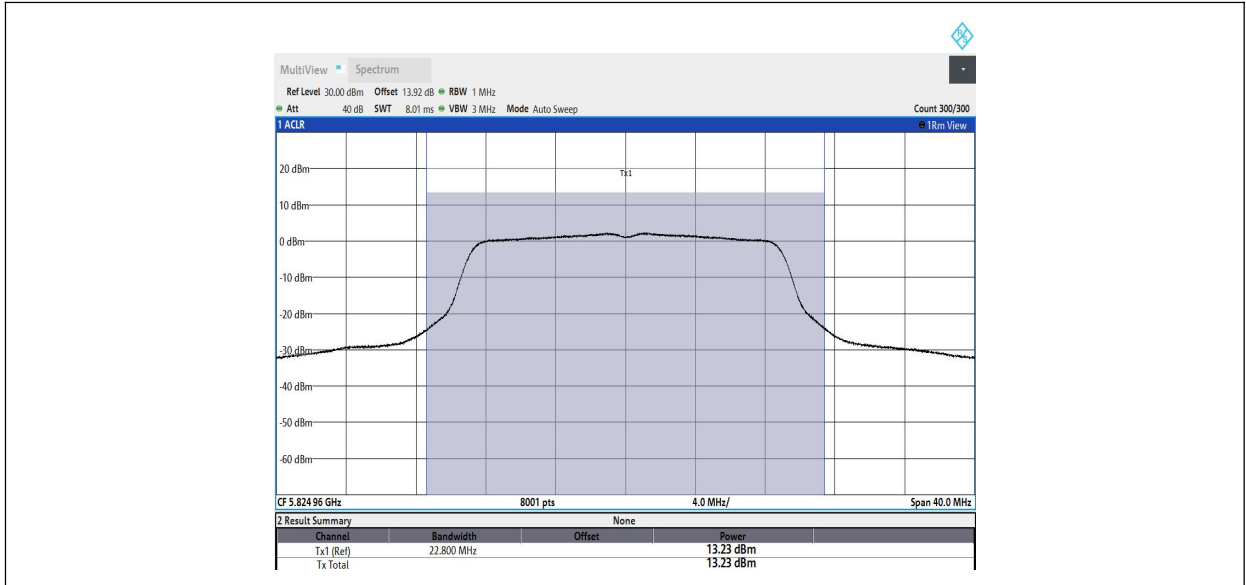
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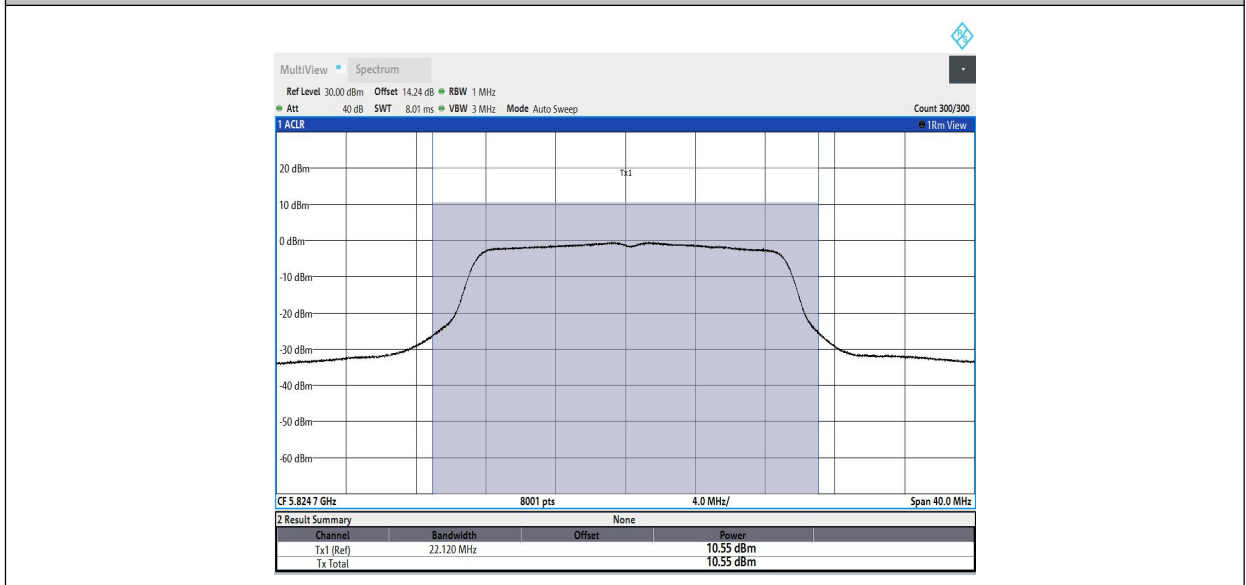
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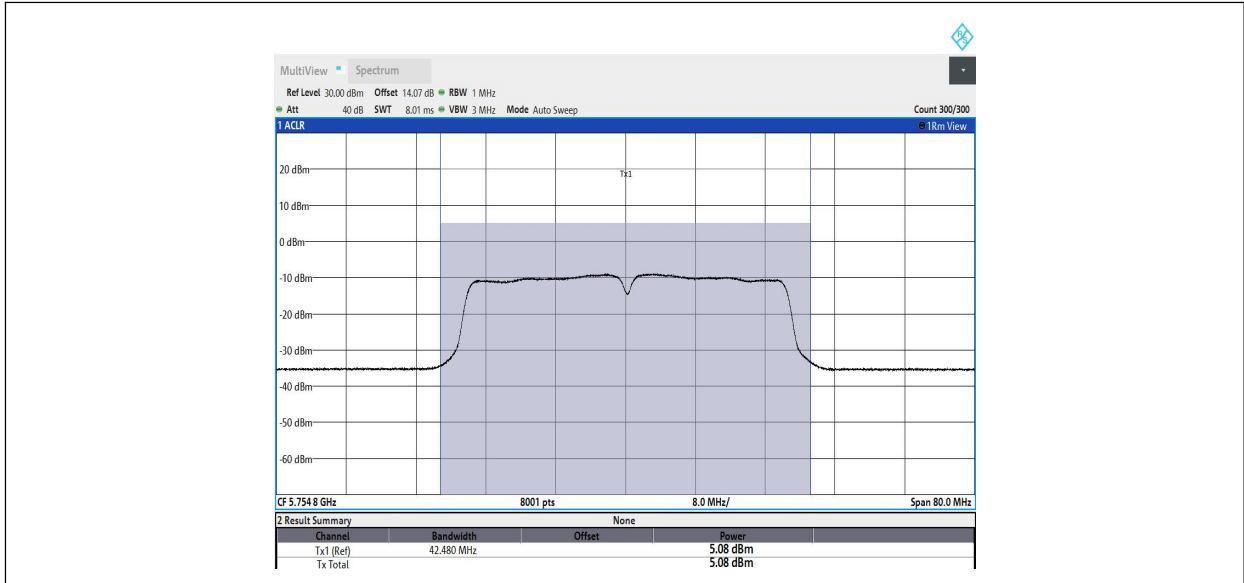
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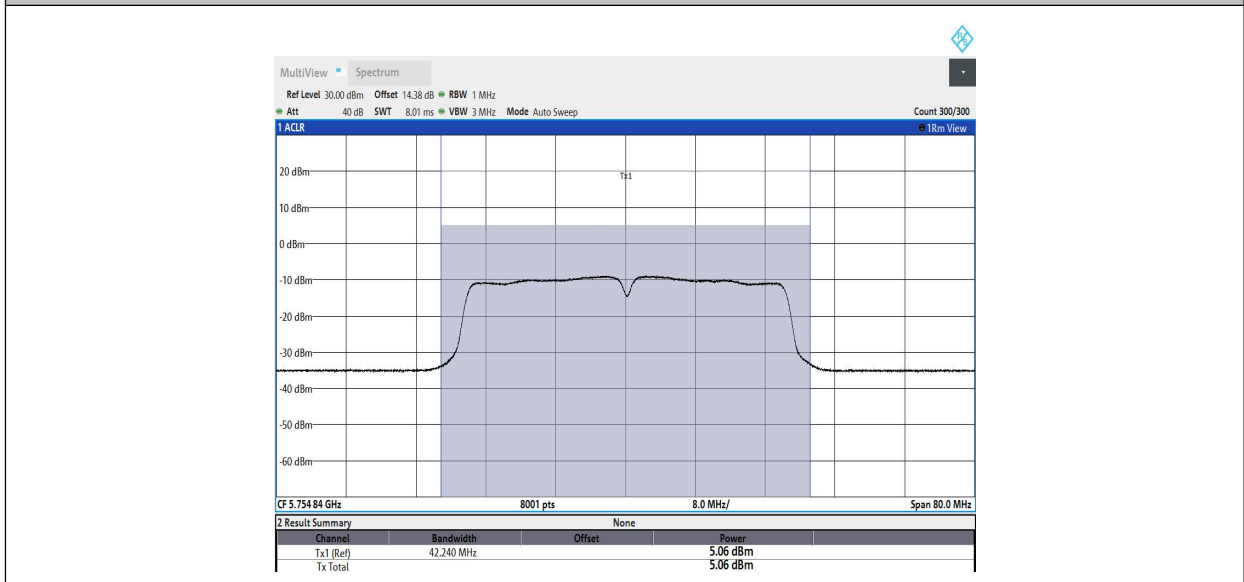
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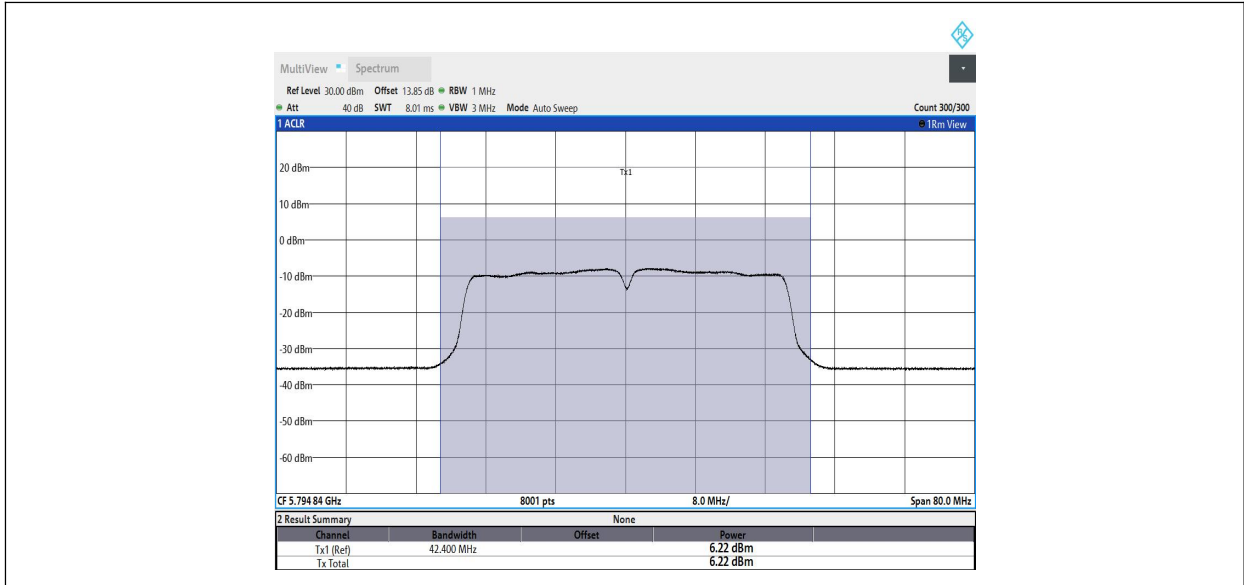
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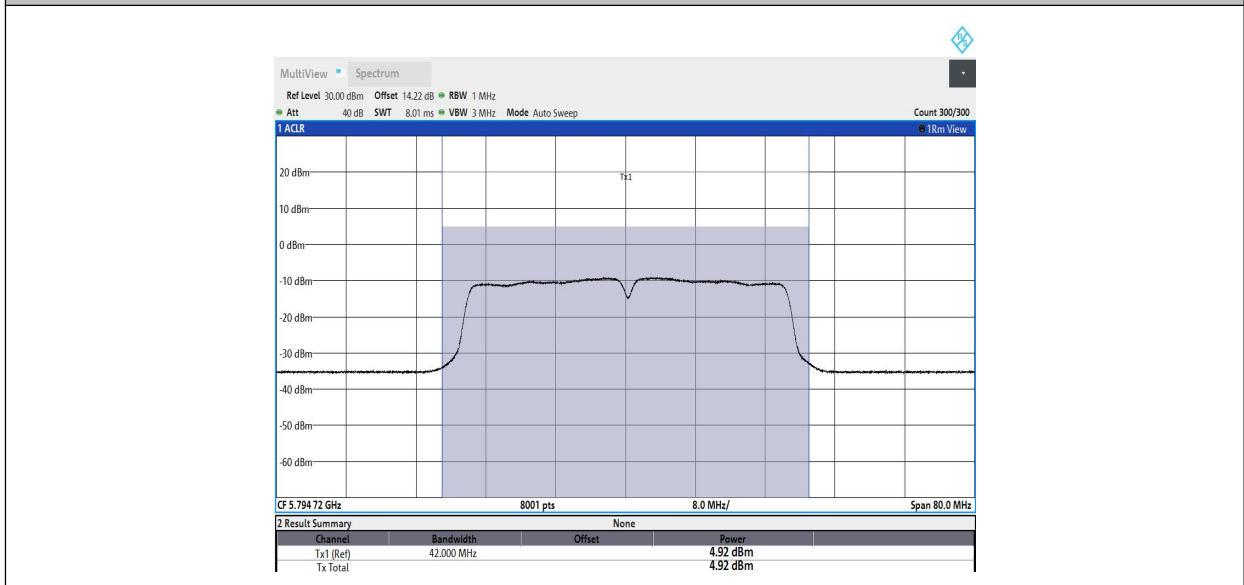
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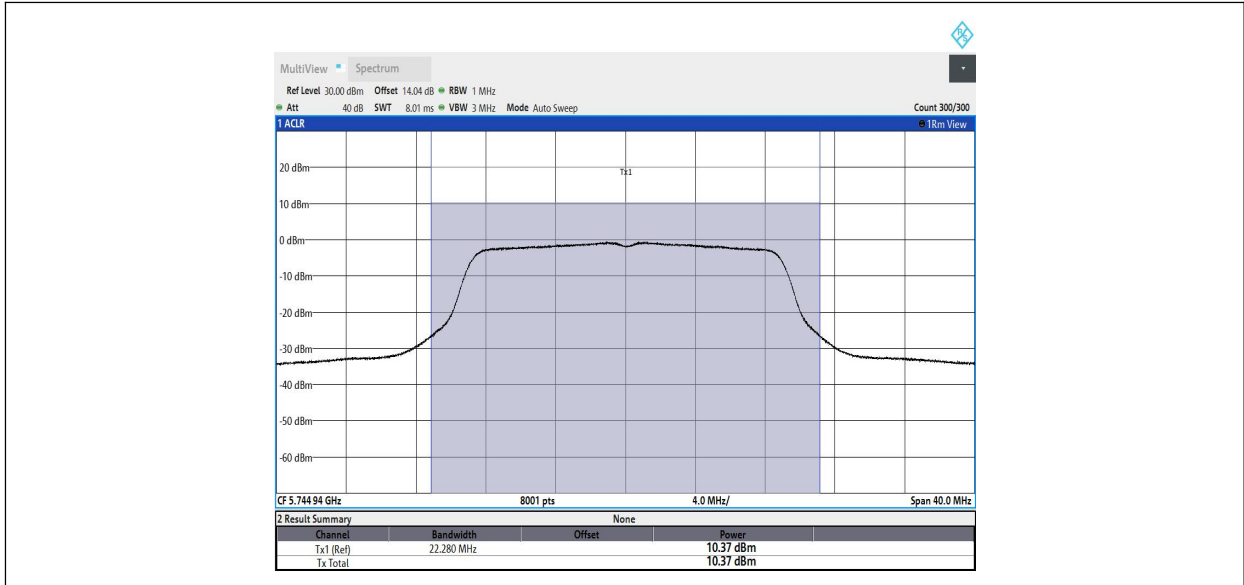
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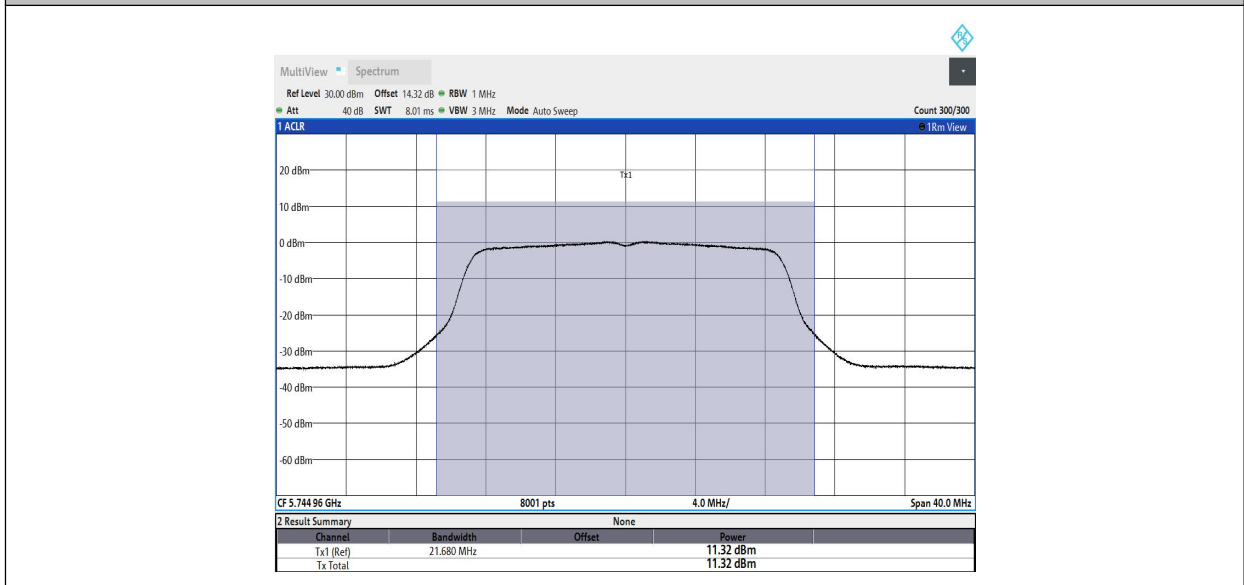
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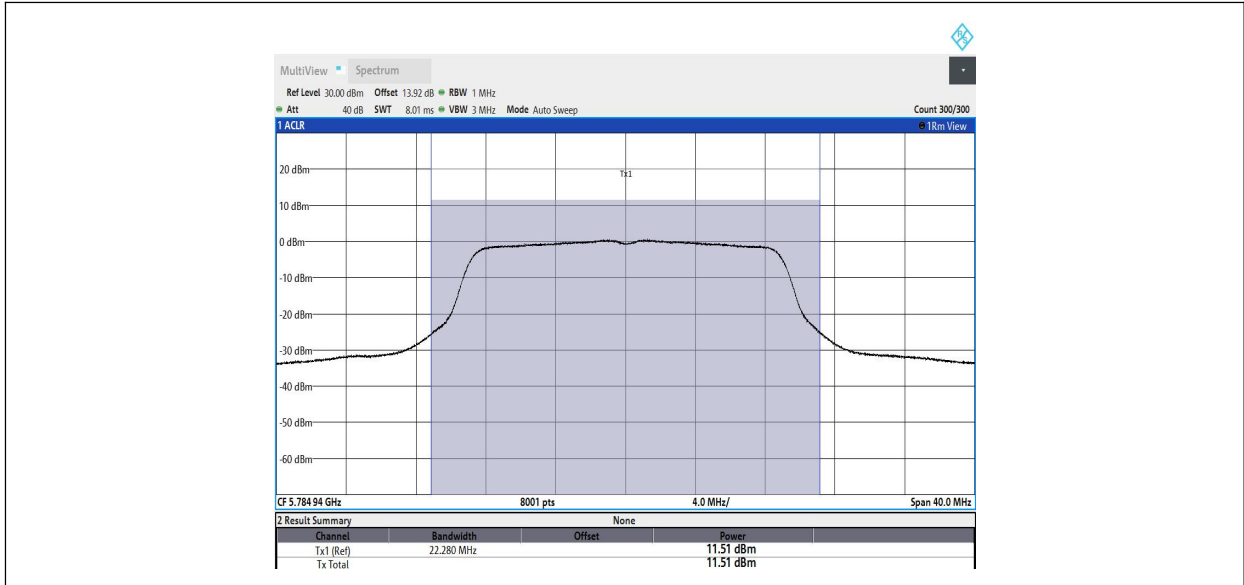
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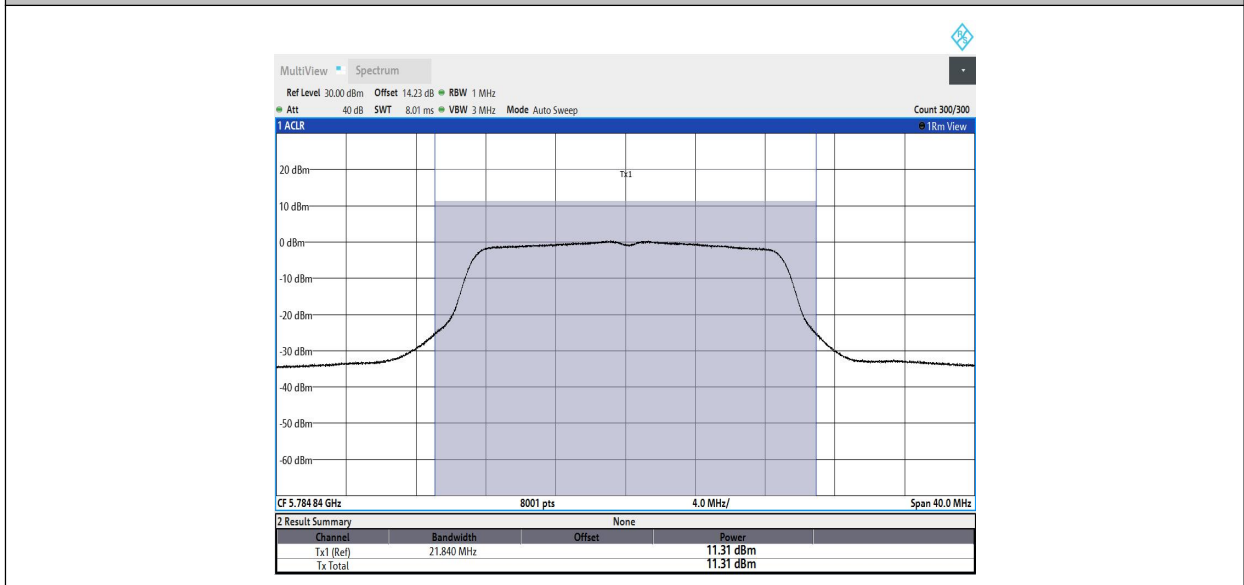
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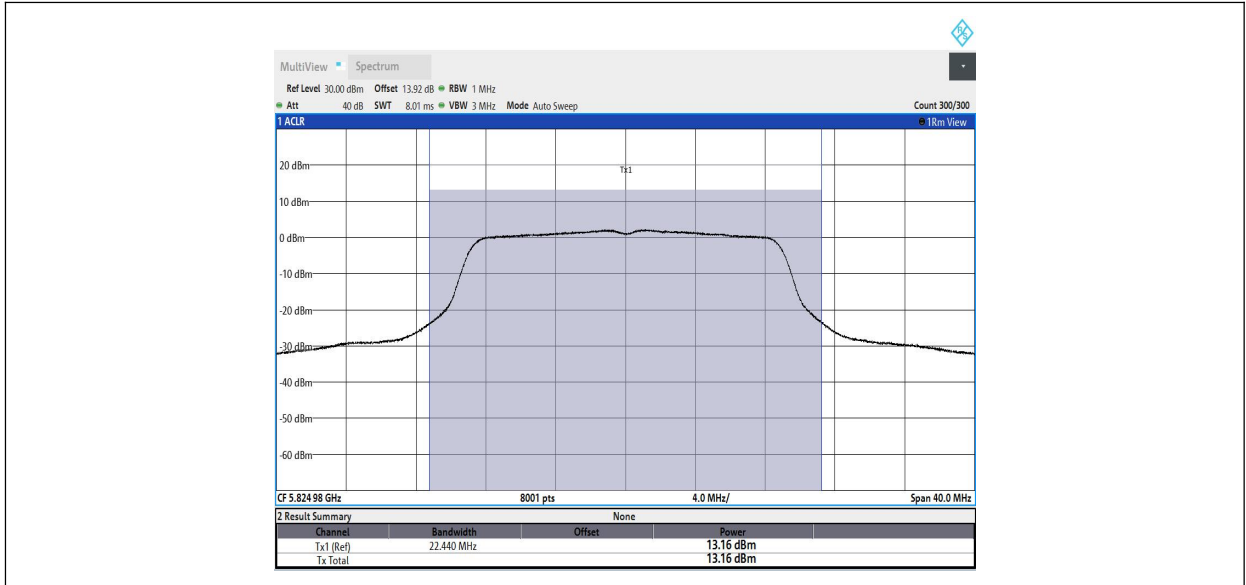
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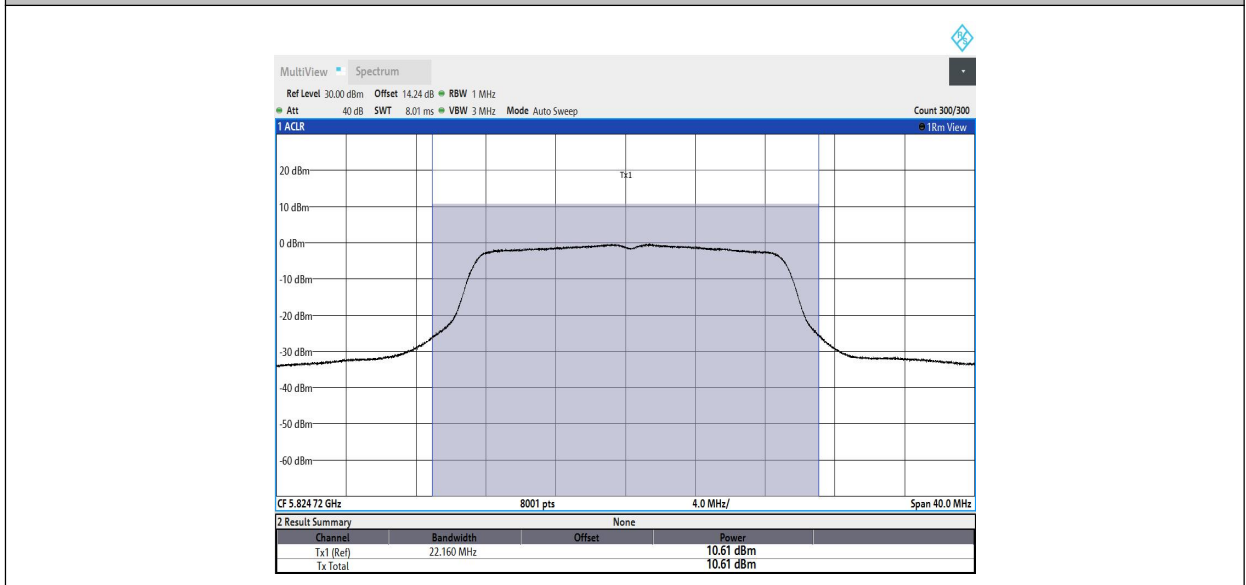
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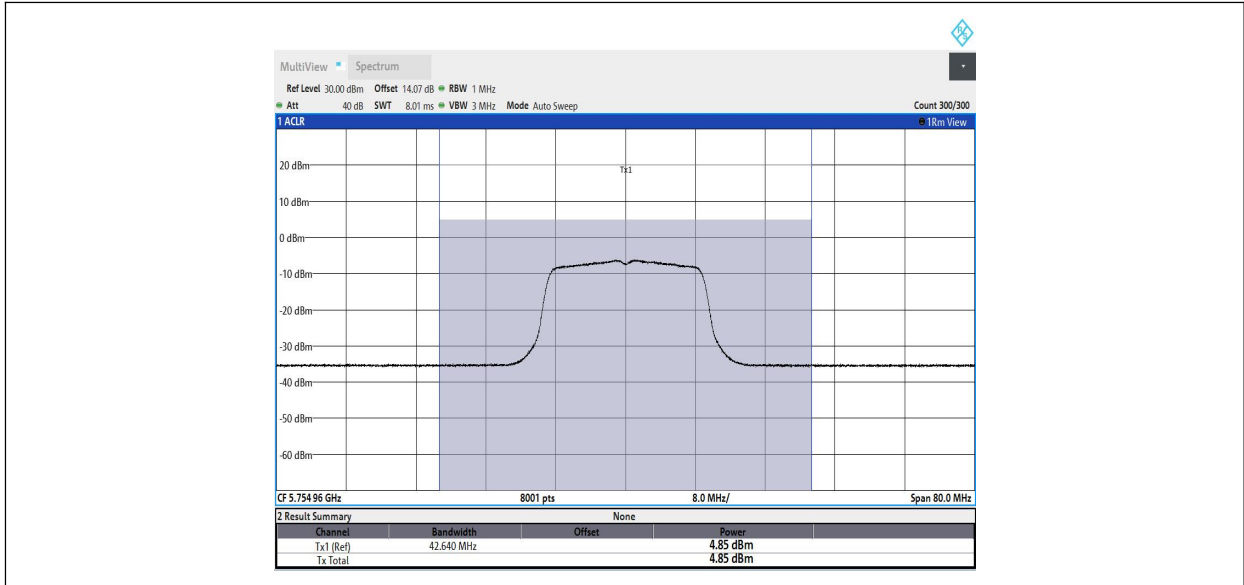
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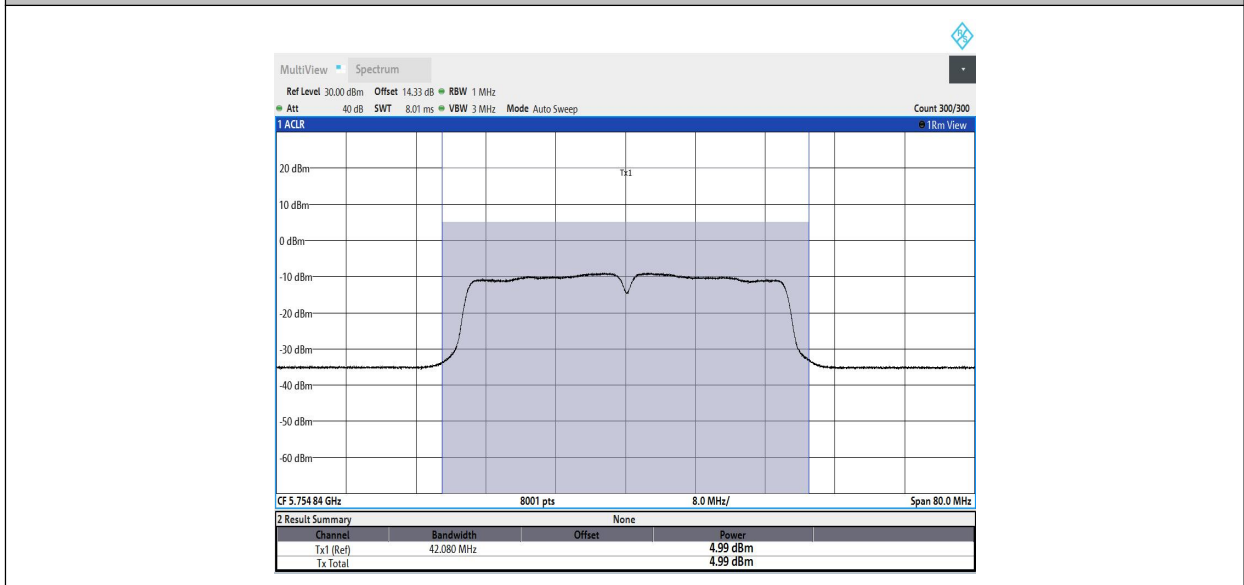
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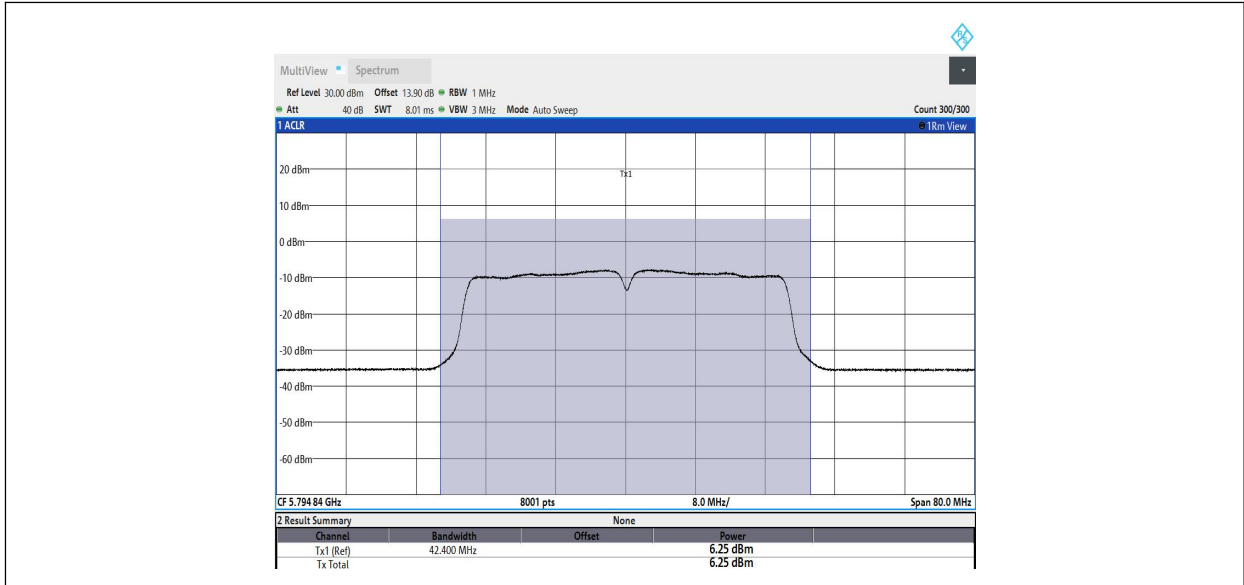
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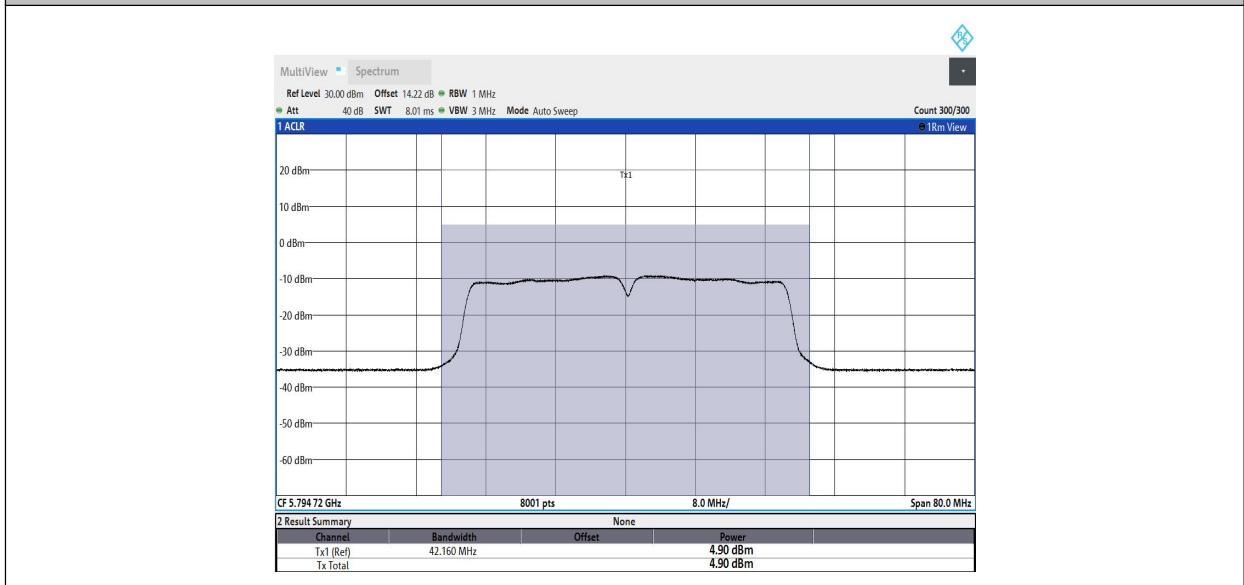
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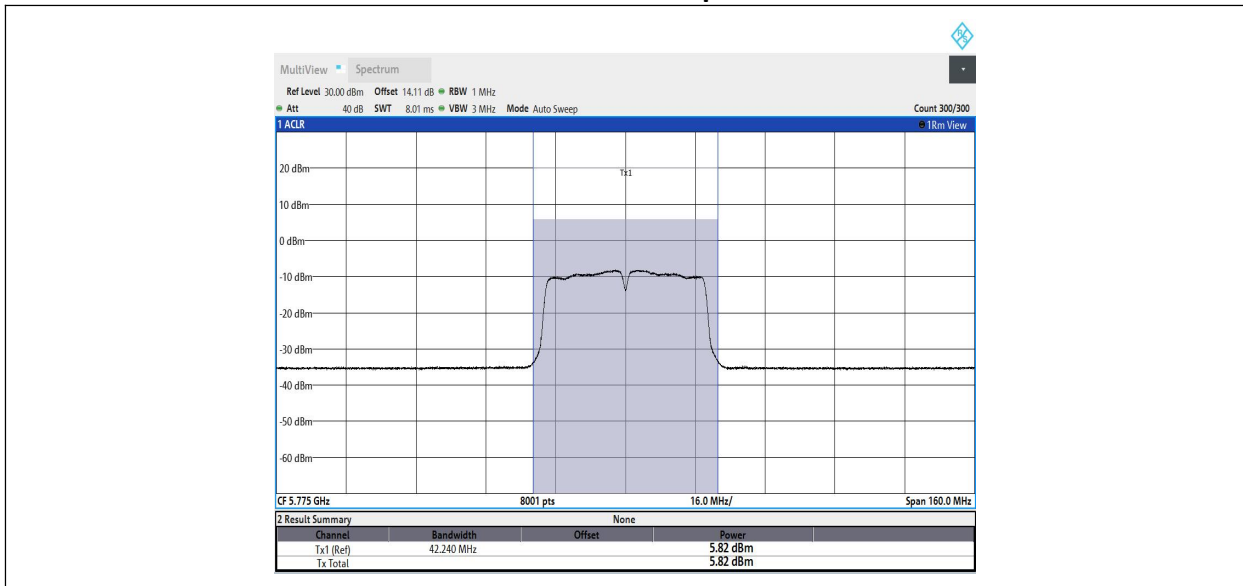
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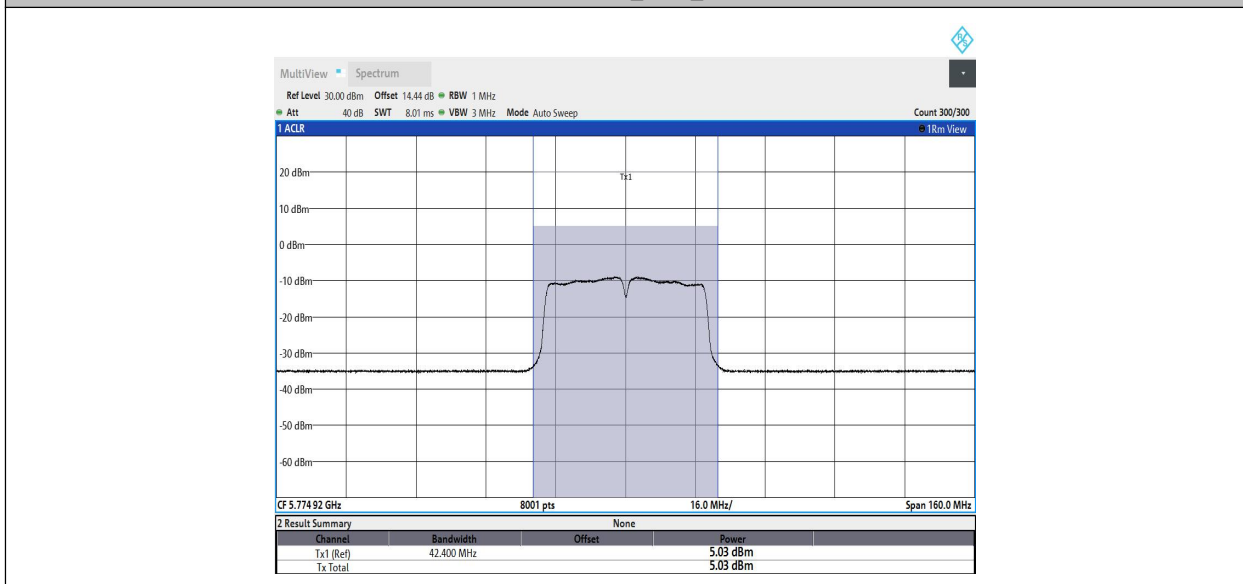
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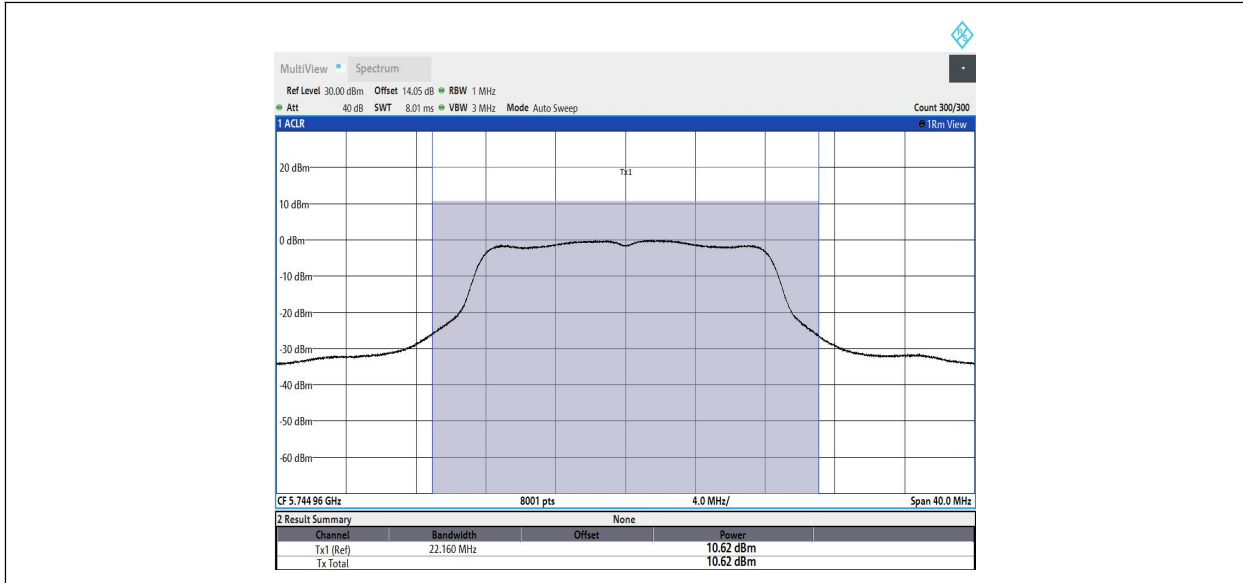
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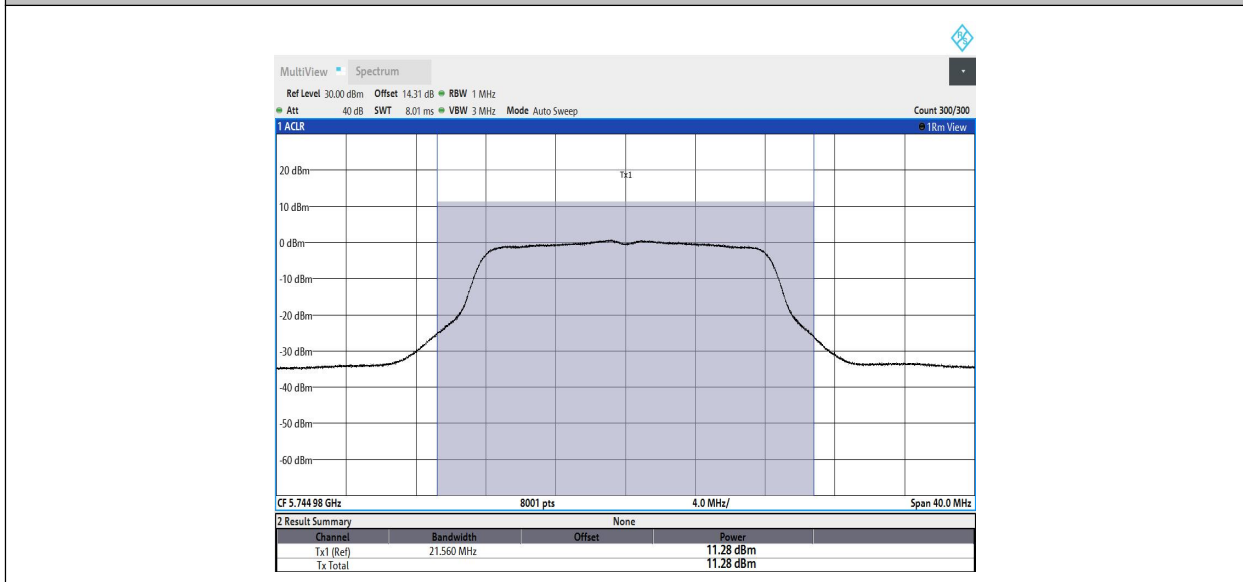
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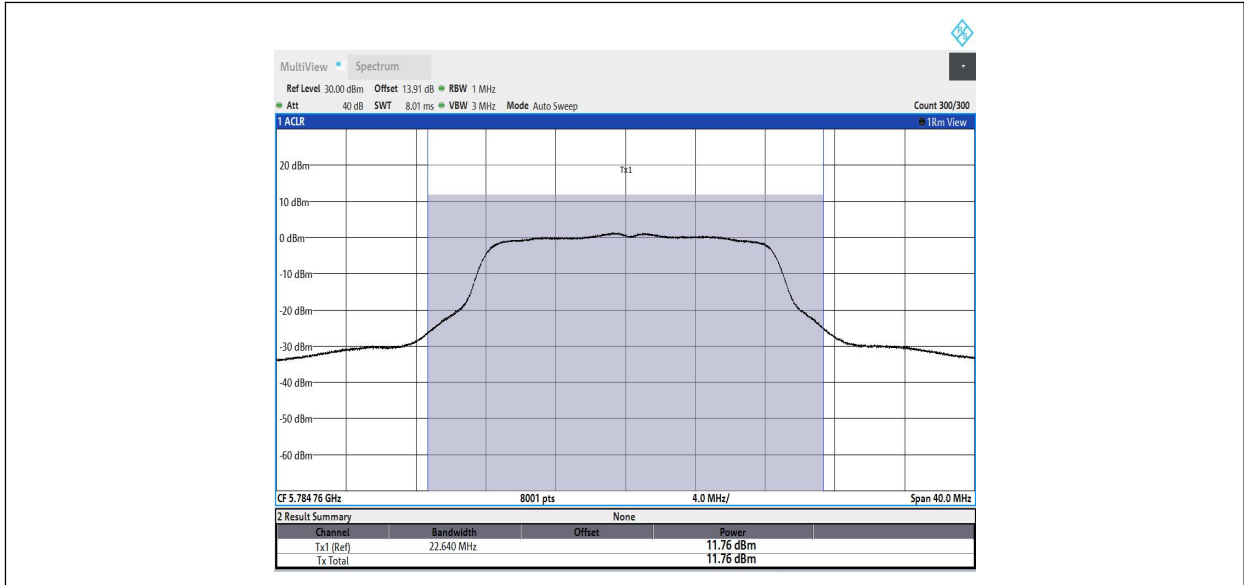
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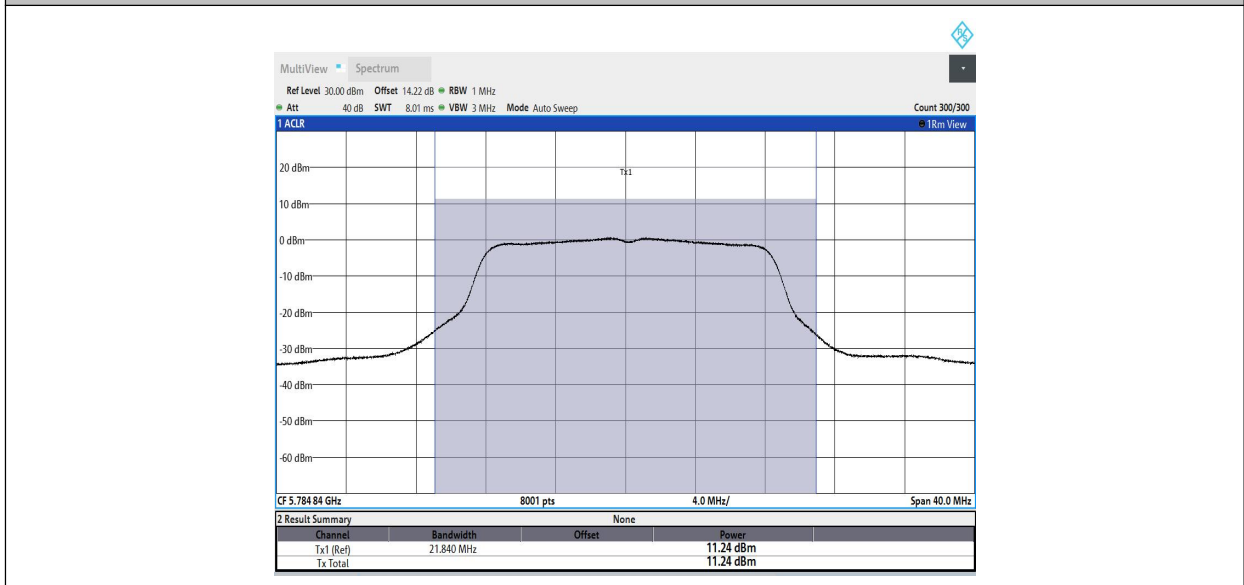
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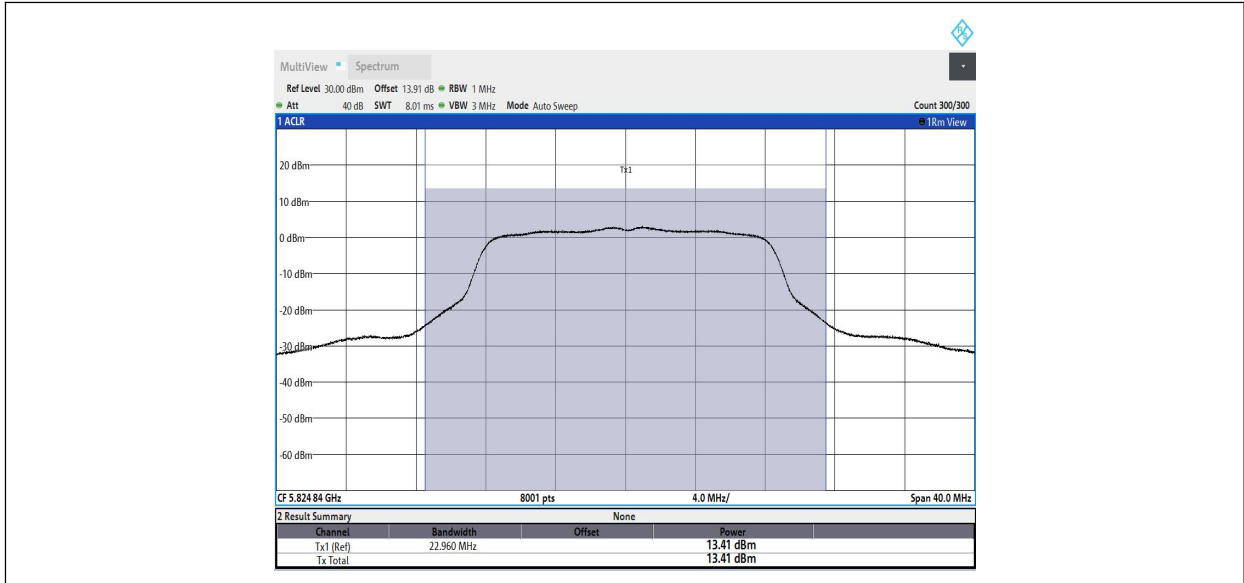
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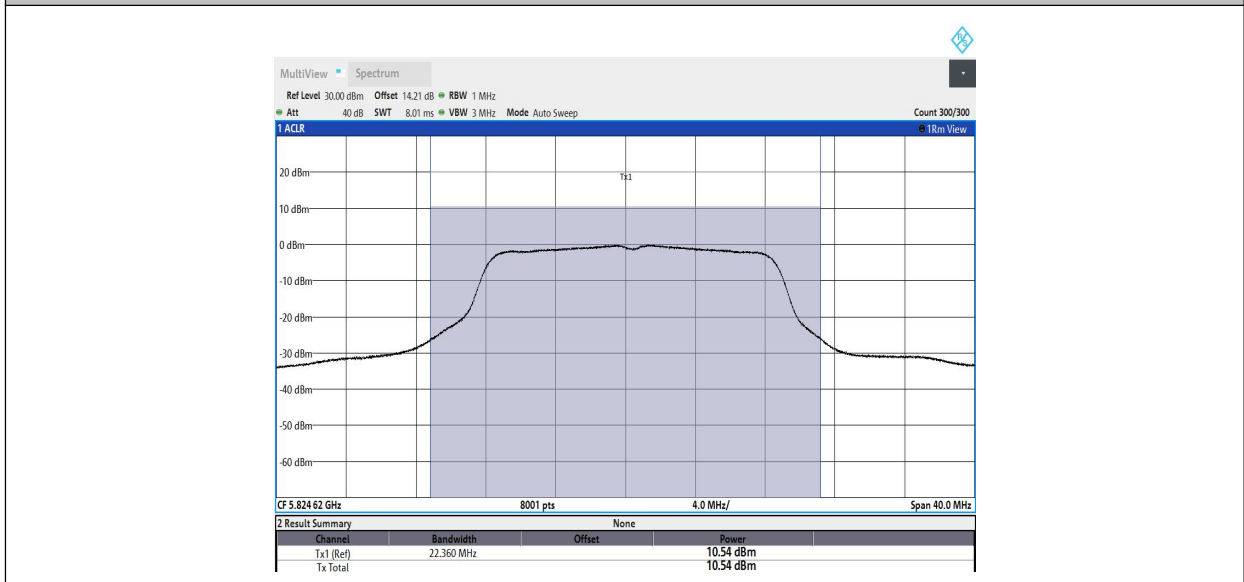
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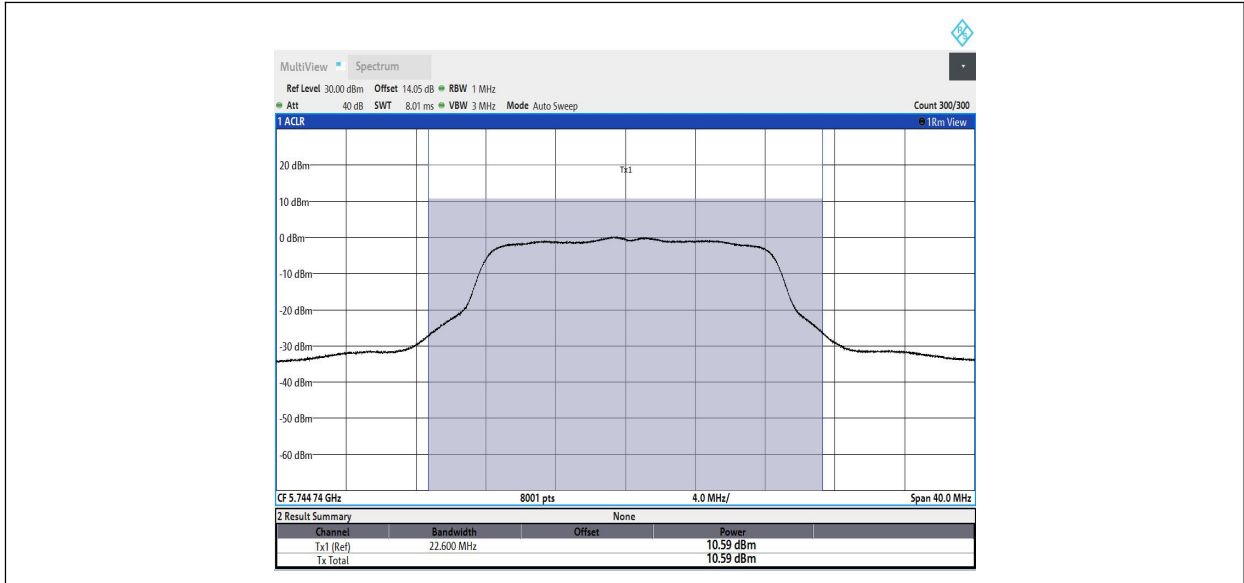
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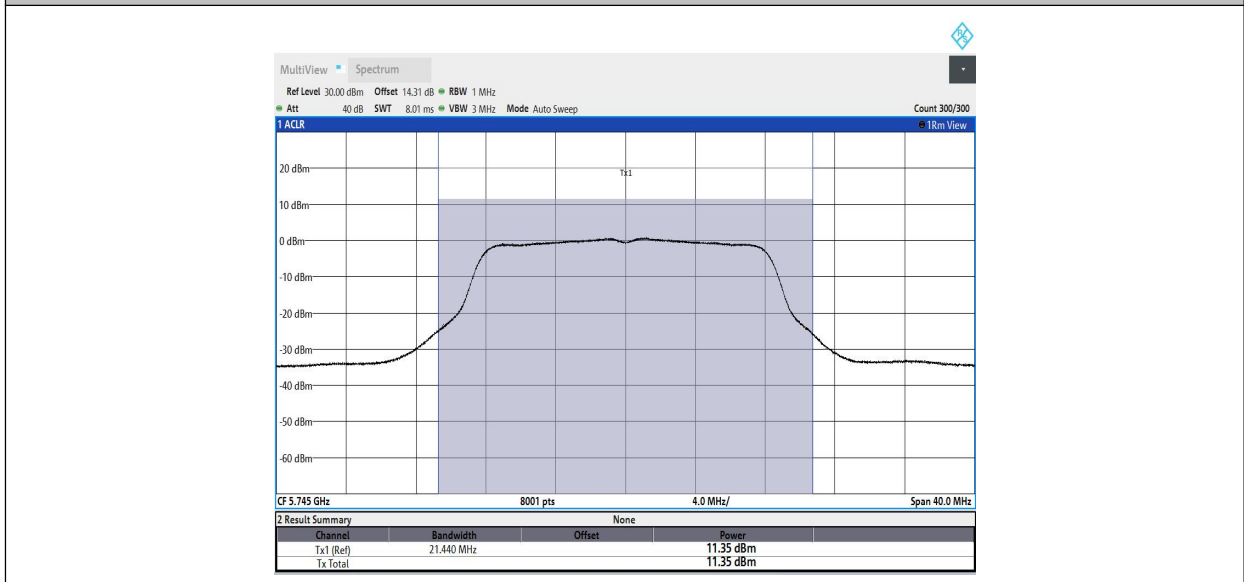
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