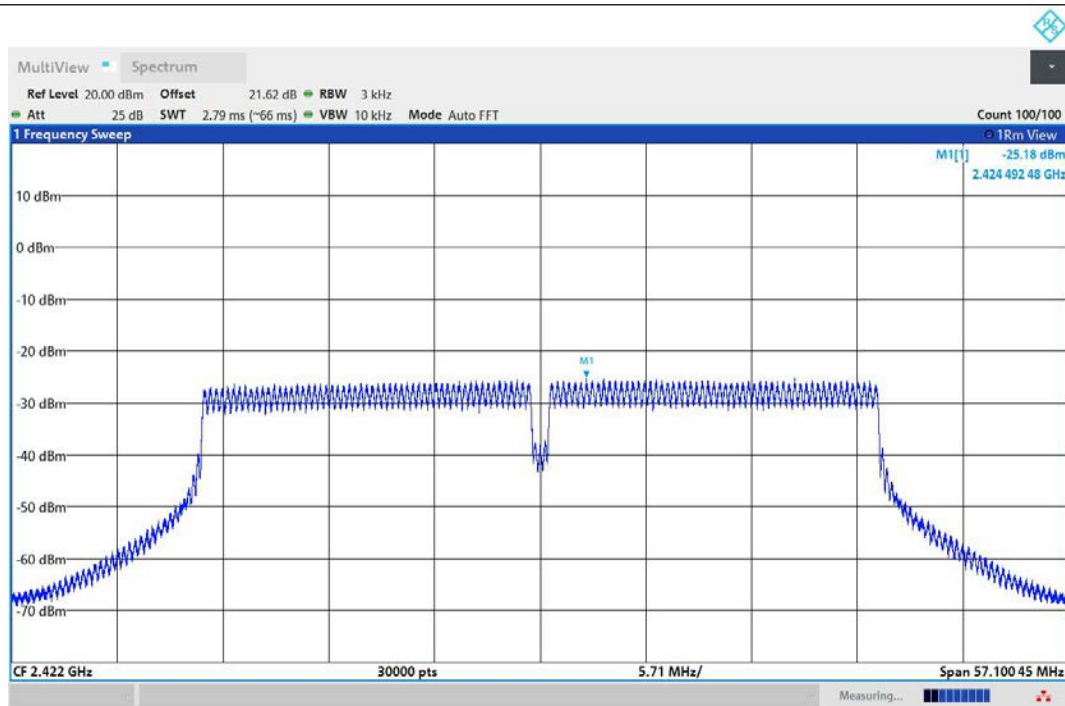
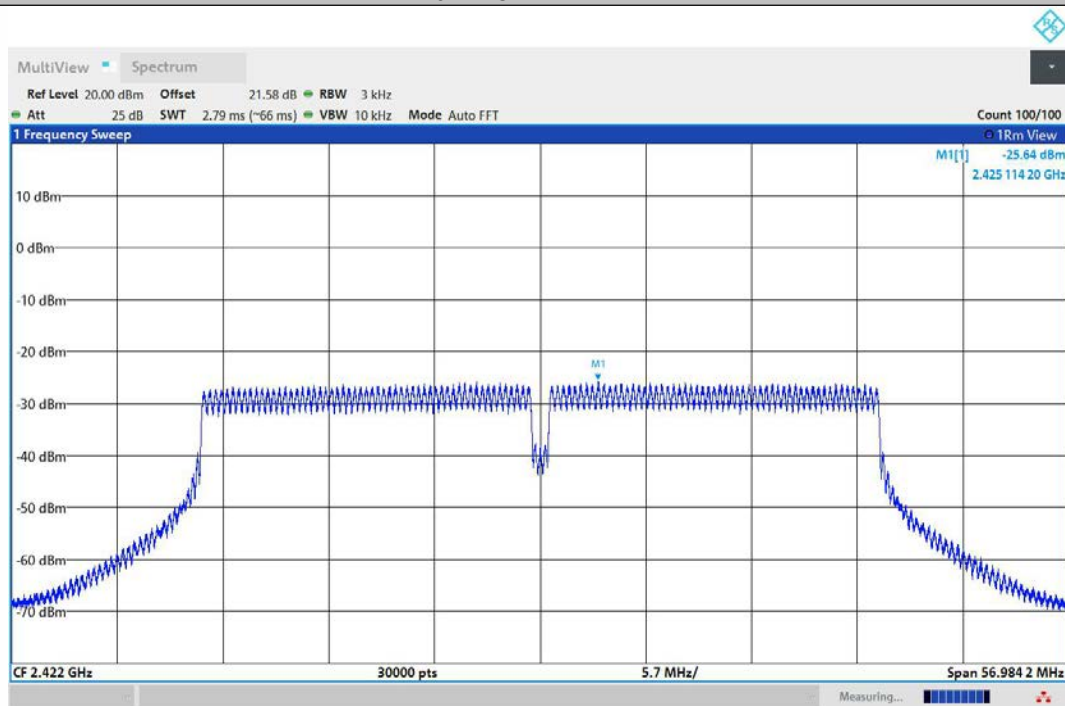
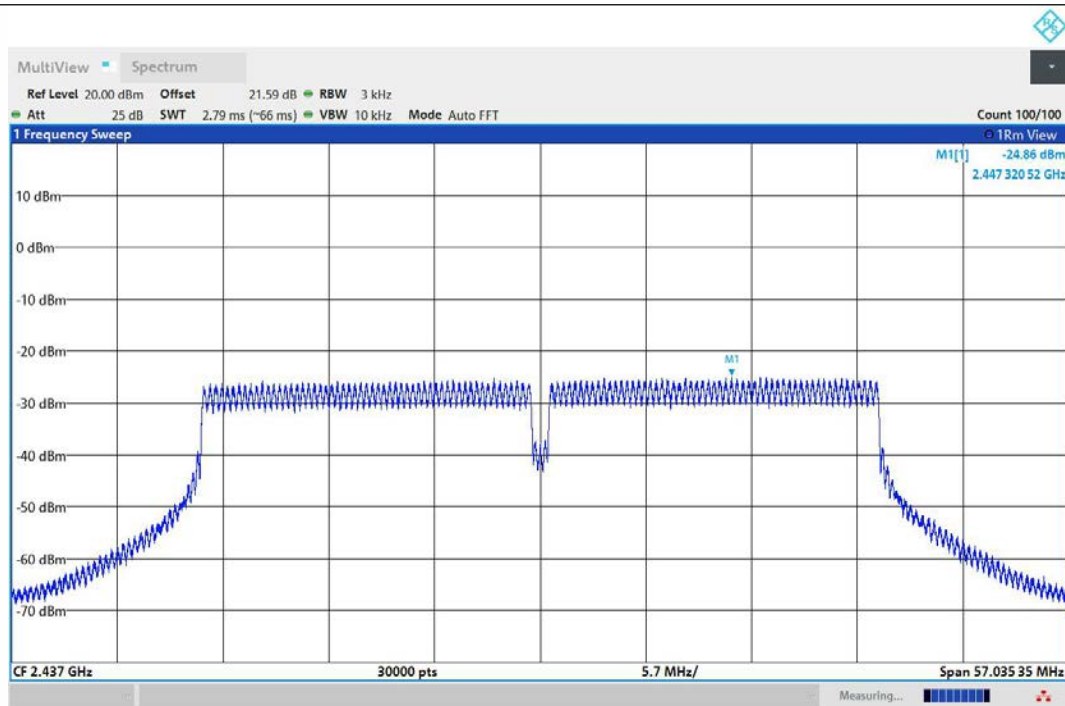




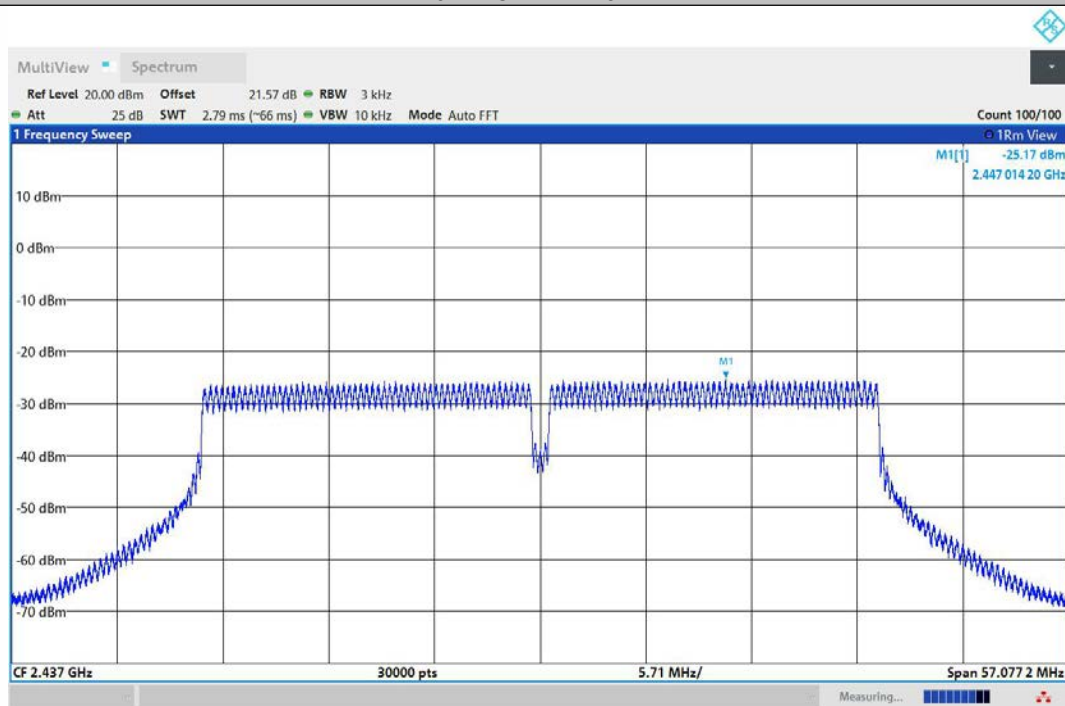
11N40MIMO-Ant1-2422-PASS



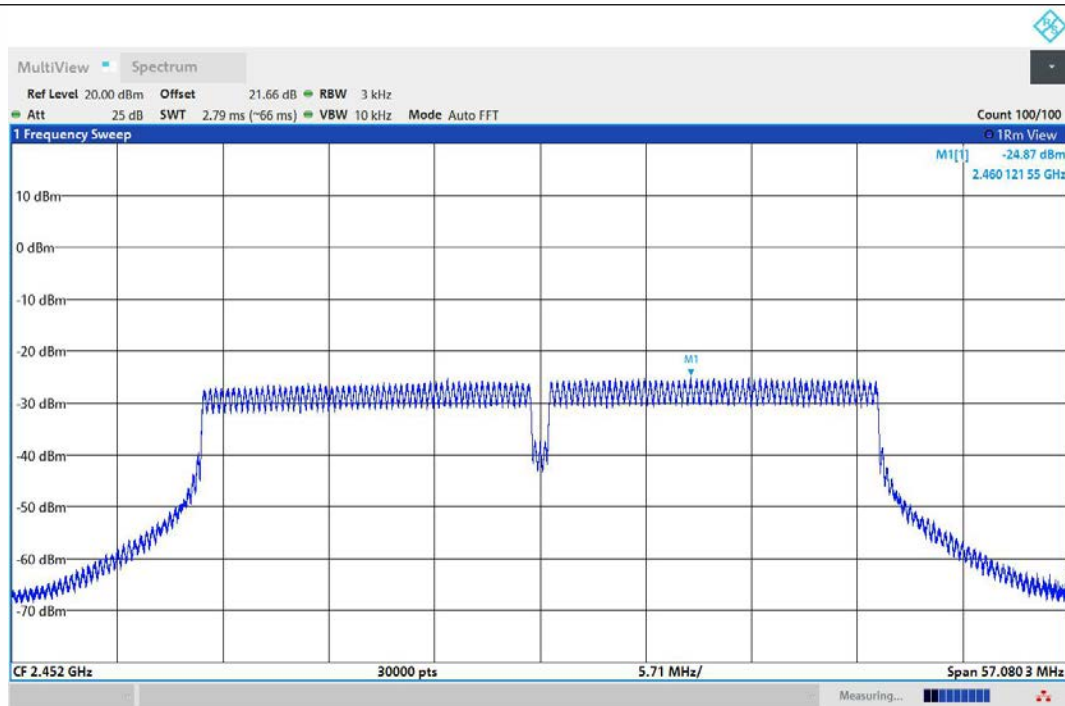
11N40MIMO-Ant2-2422-PASS



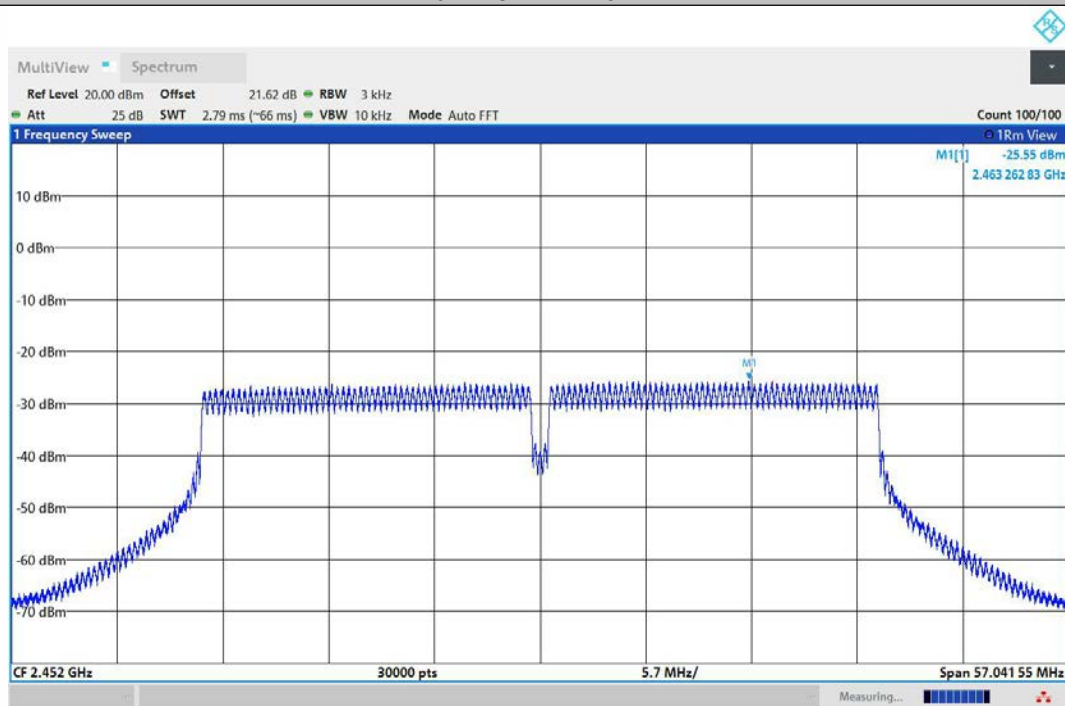
11N40MIMO-Ant1-2437-PASS



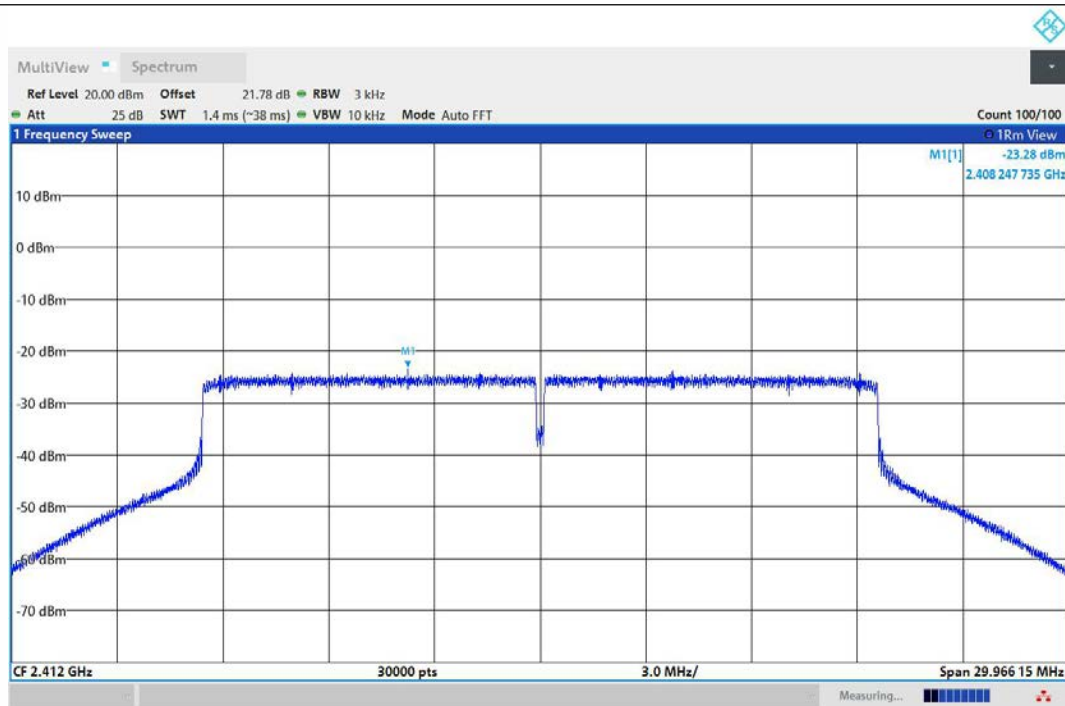
11N40MIMO-Ant2-2437-PASS



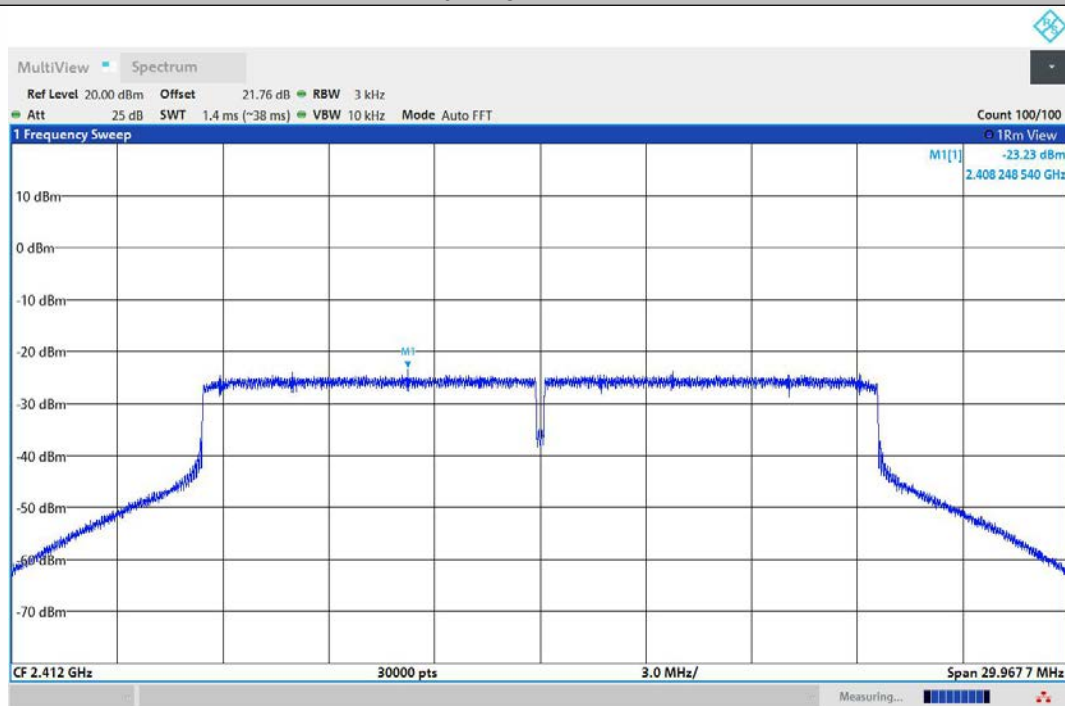
11N40MIMO-Ant1-2452-PASS



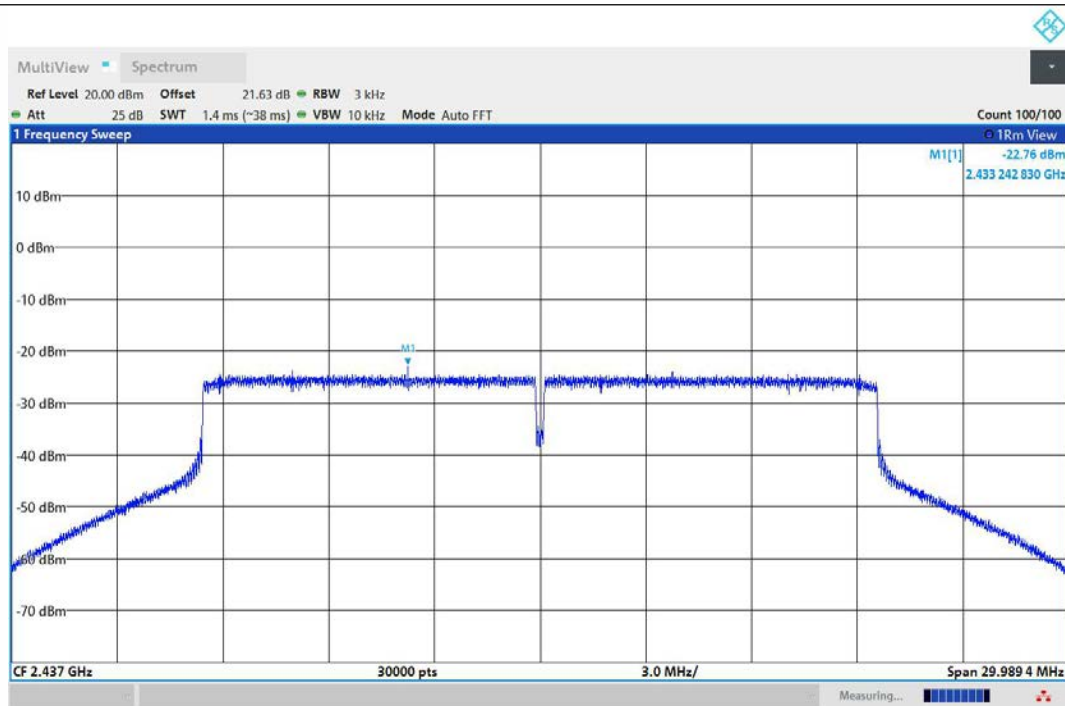
11N40MIMO-Ant2-2452-PASS



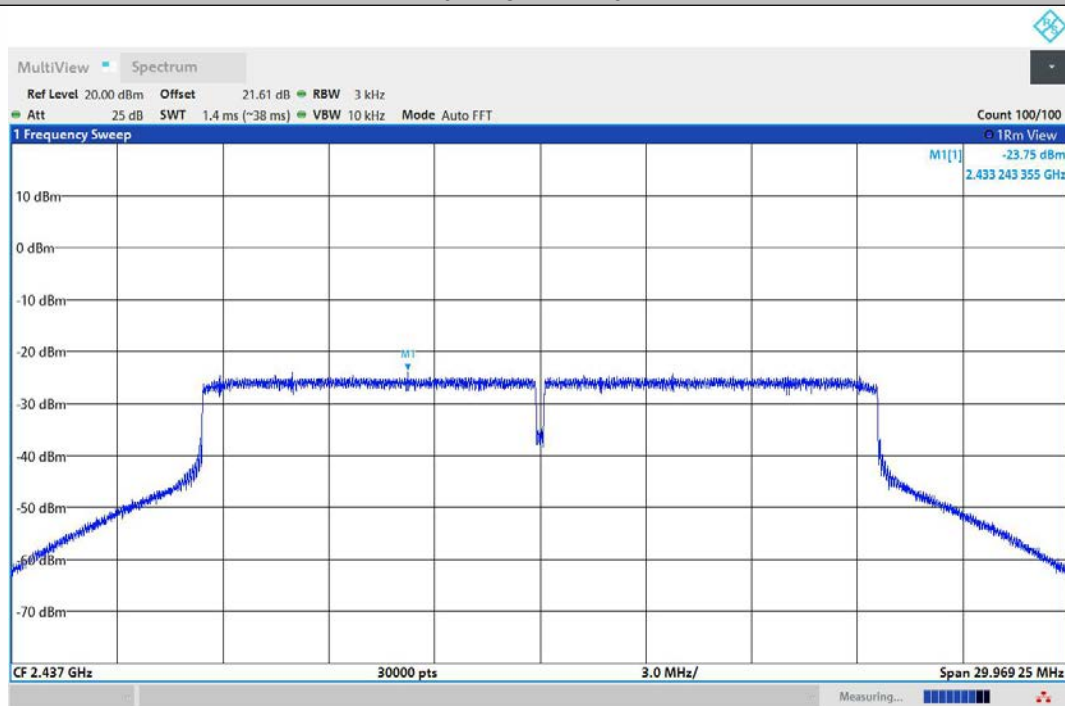
11AX20MIMO-Ant1-2412-PASS



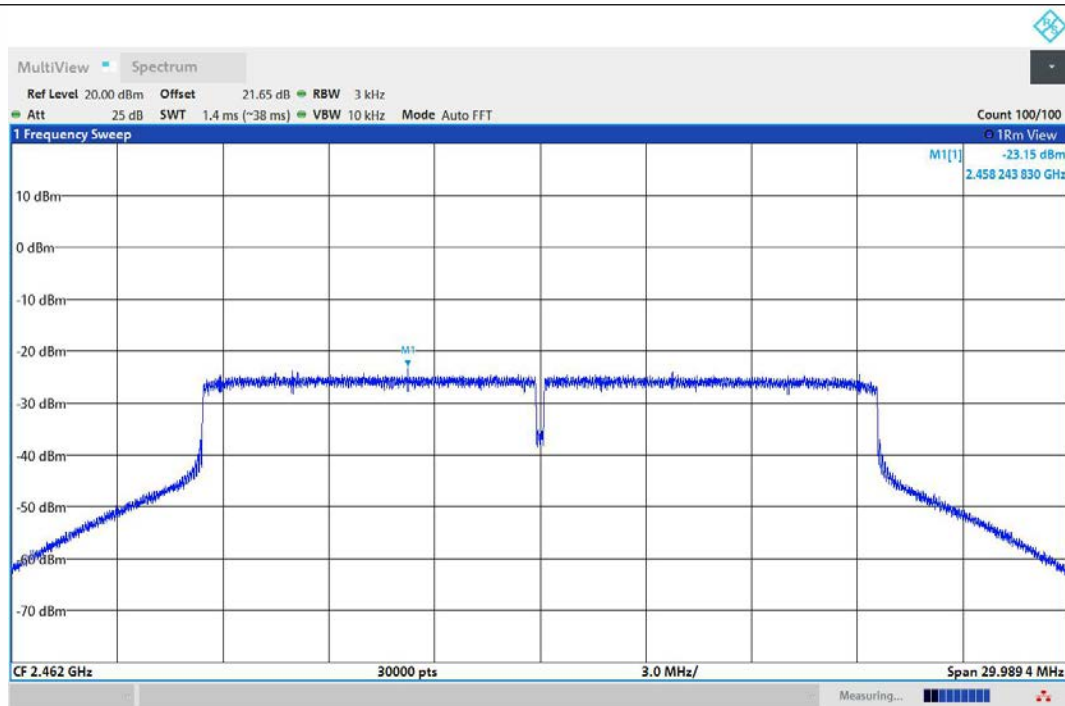
11AX20MIMO-Ant2-2412-PASS



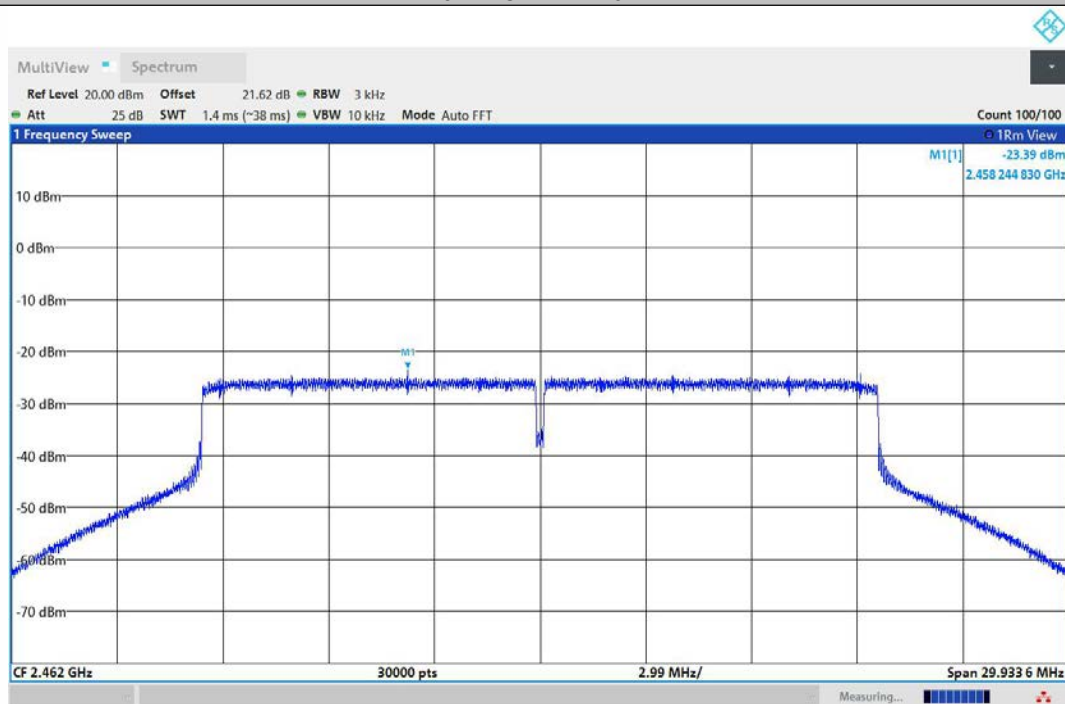
11AX20MIMO-Ant1-2437-PASS



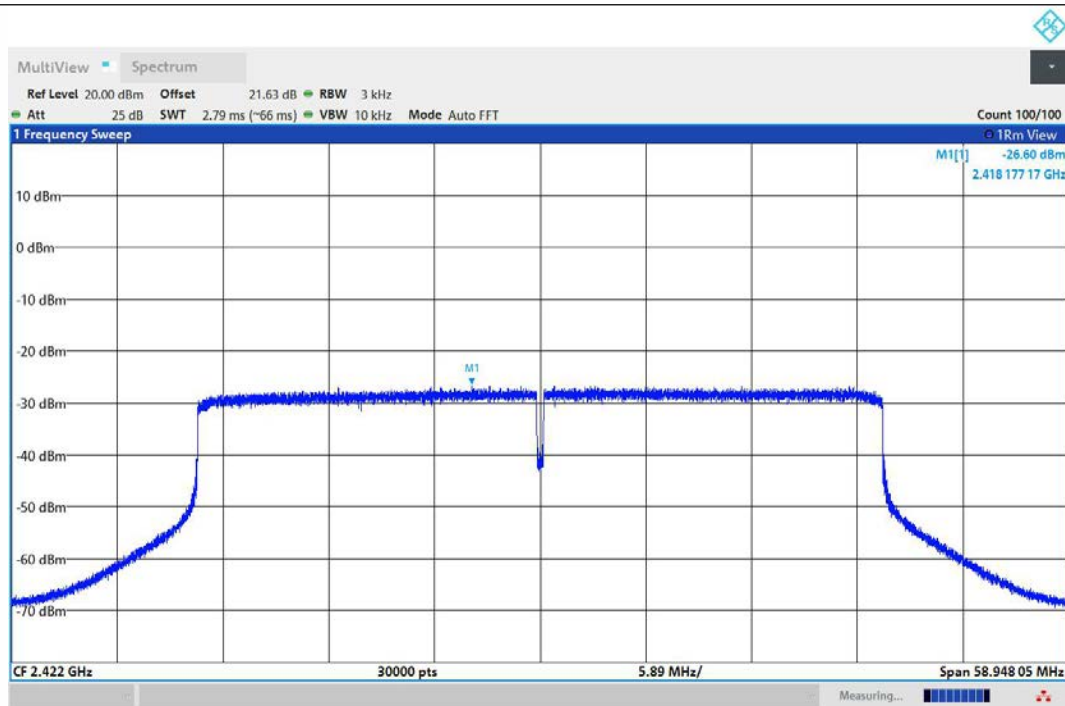
11AX20MIMO-Ant2-2437-PASS



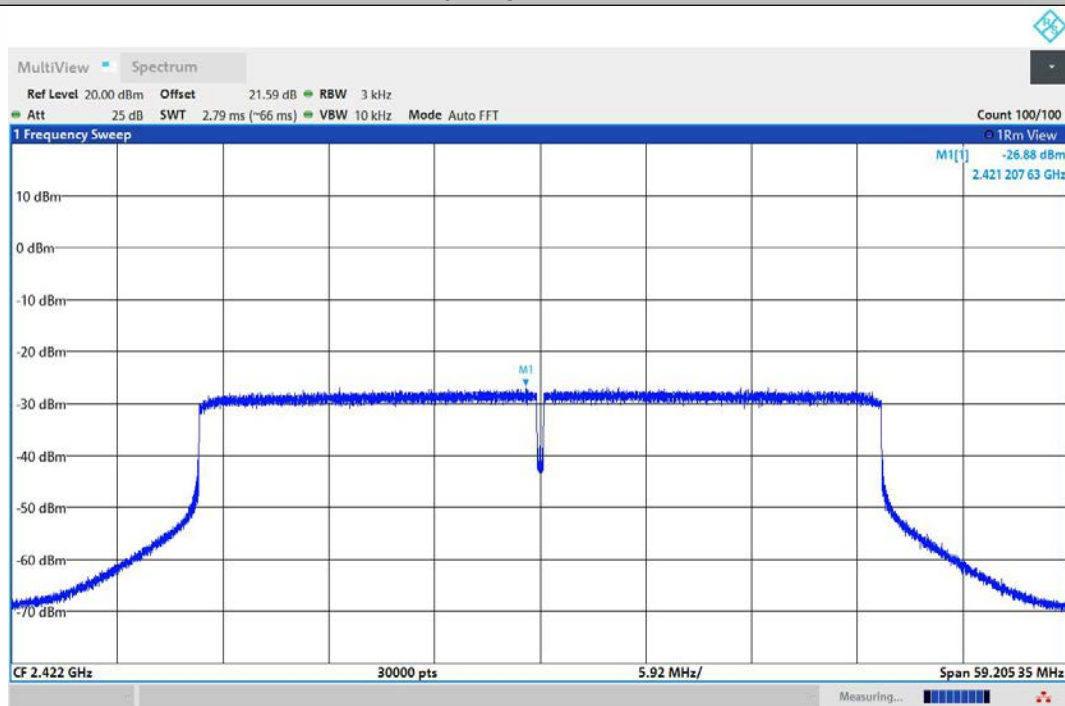
11AX20MIMO-Ant1-2462-PASS



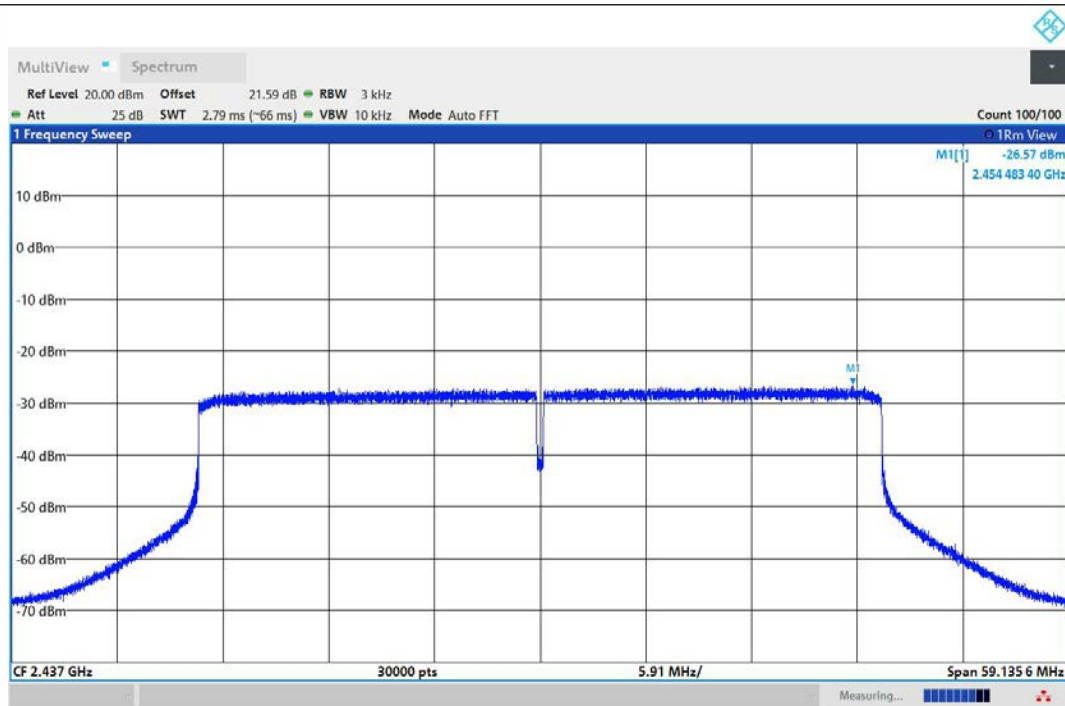
11AX20MIMO-Ant2-2462-PASS



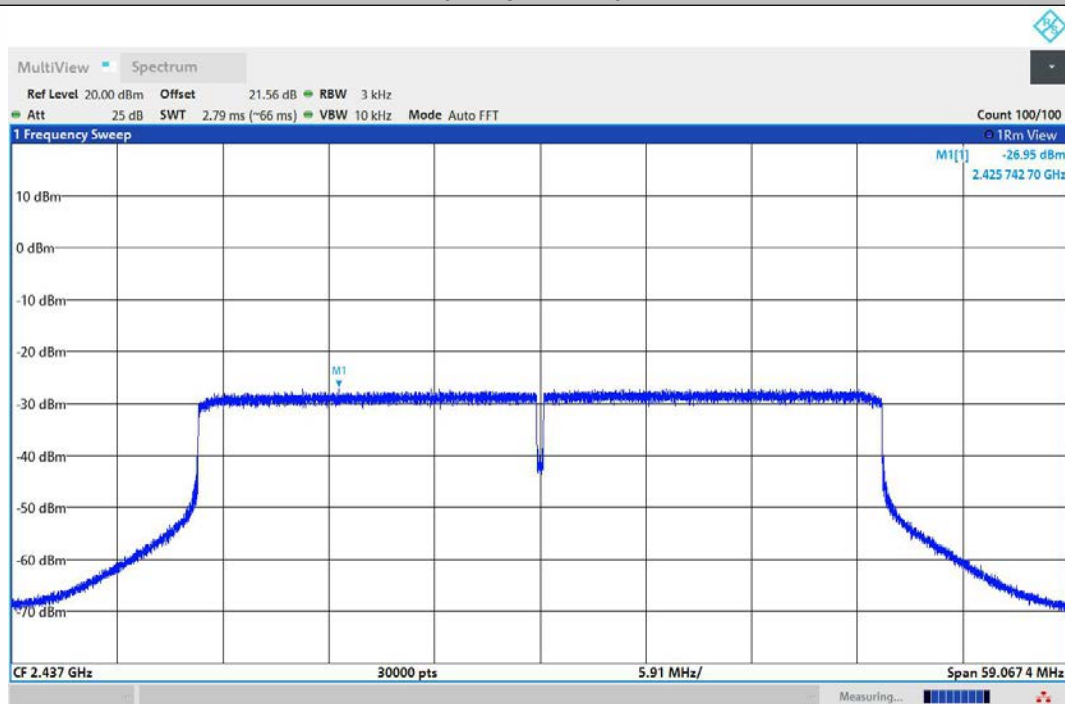
11AX40MIMO-Ant1-2422-PASS



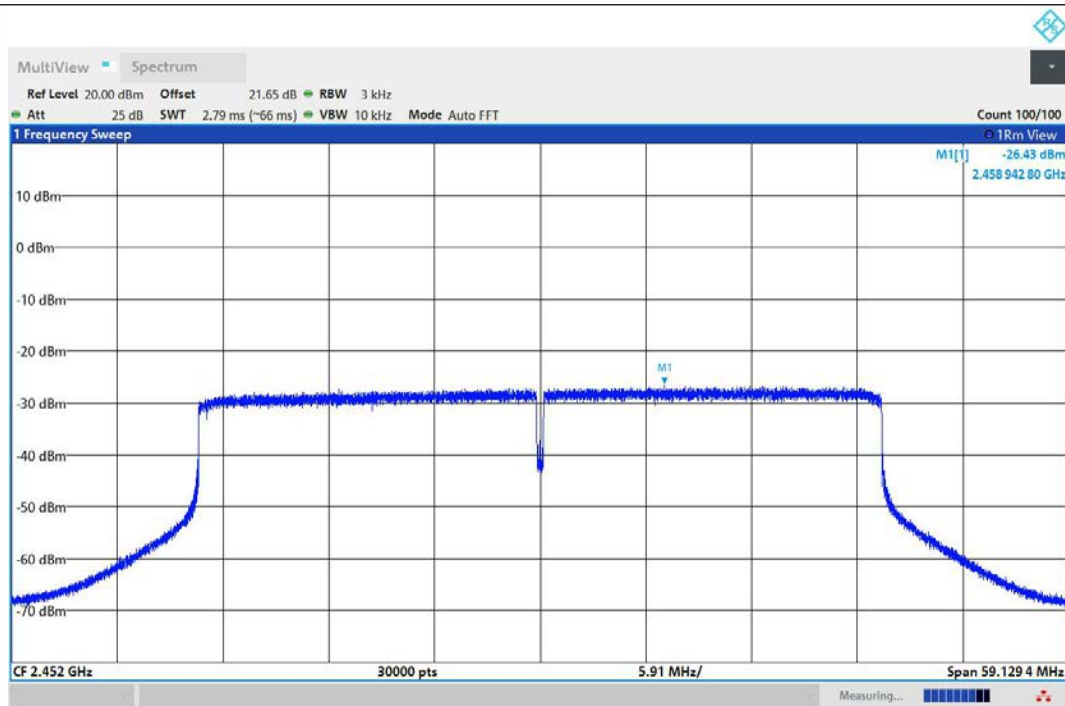
11AX40MIMO-Ant2-2422-PASS



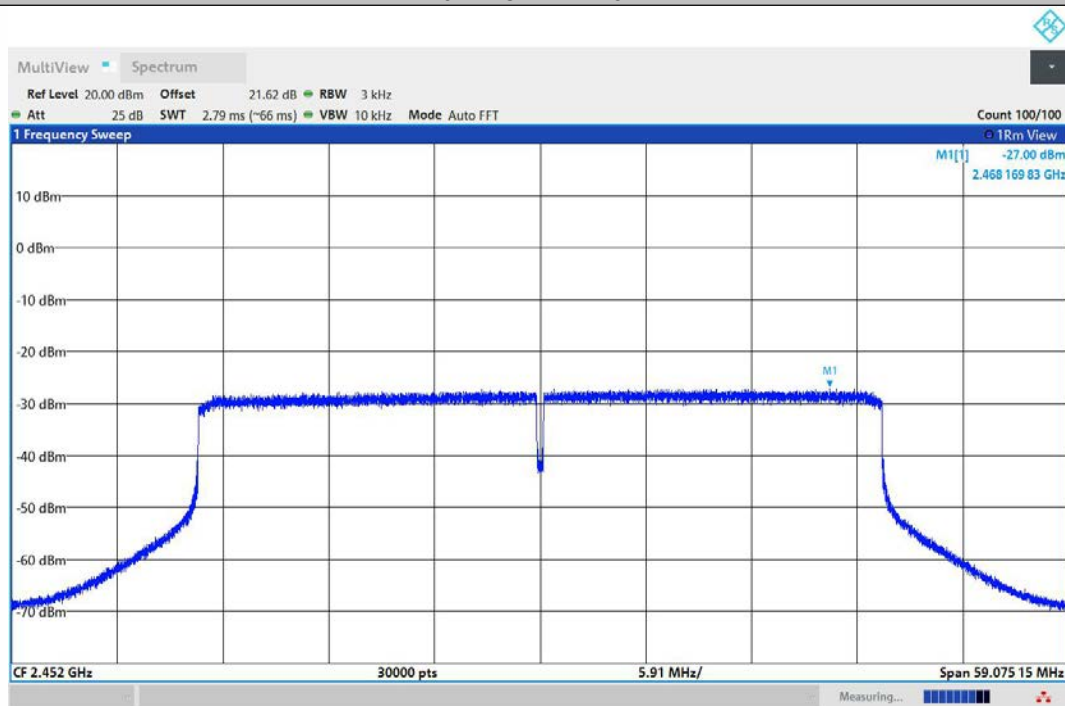
11AX40MIMO-Ant1-2437-PASS



11AX40MIMO-Ant2-2437-PASS



11AX40MIMO-Ant1-2452-PASS



11AX40MIMO-Ant2-2452-PASS

7.4 UNWANTED SPURIOUS EMISSIONS

7.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02.

7.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

7.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1.

7.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer.

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

7.4.5 Test Results

Temperature : 25 °C

Humidity : 45 %

ATM Pressure:

1011 mbar

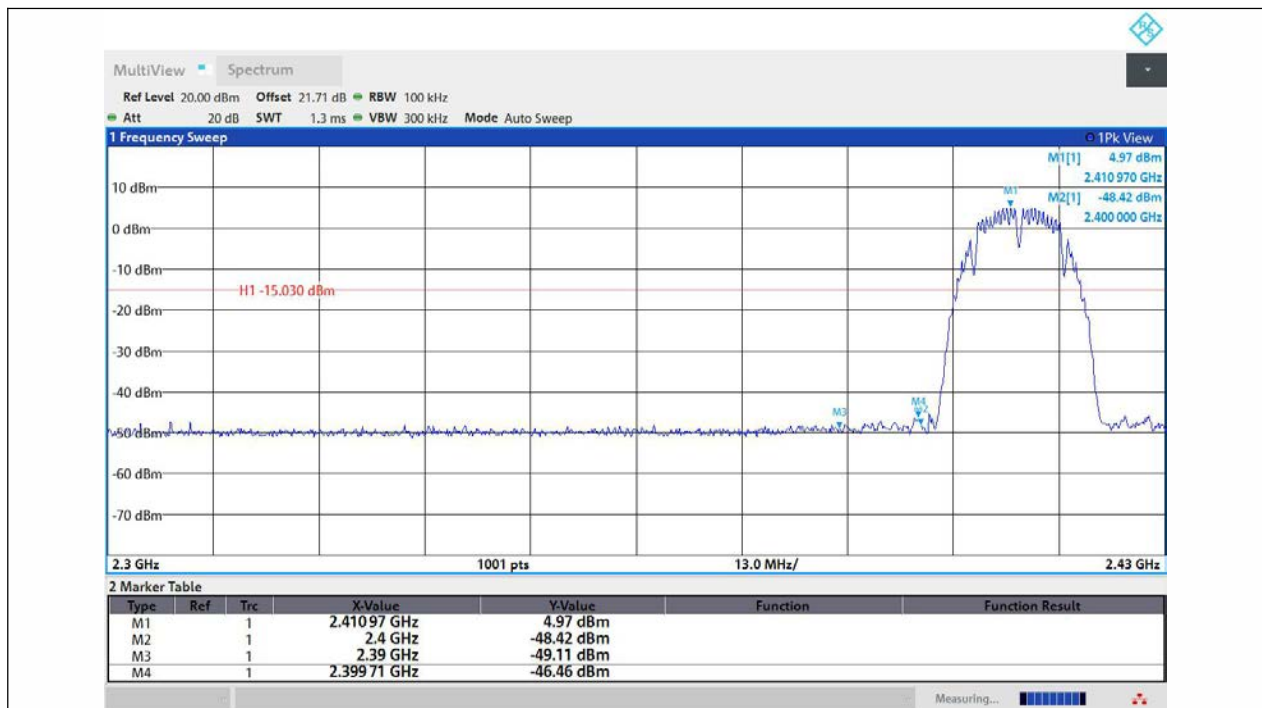
Test Engineer:

GJ

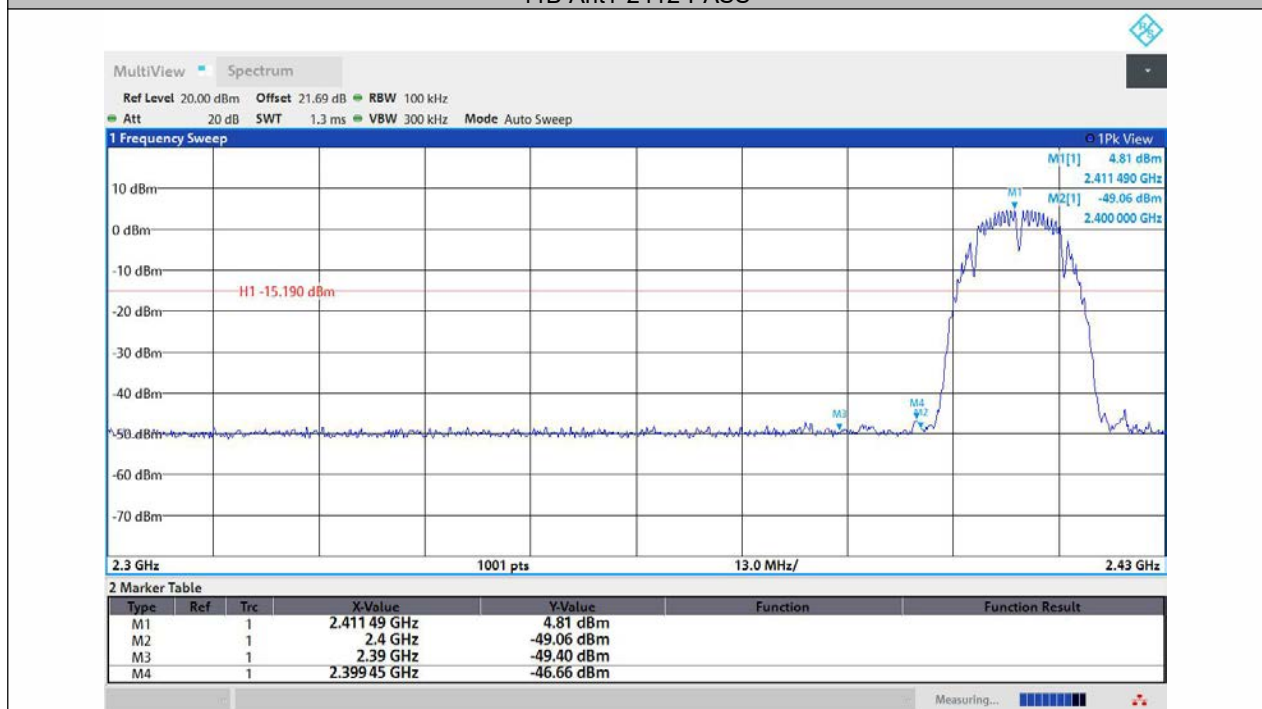
All modulation modes were tested, and the worst data is shown in the table below:

Band edge measurements

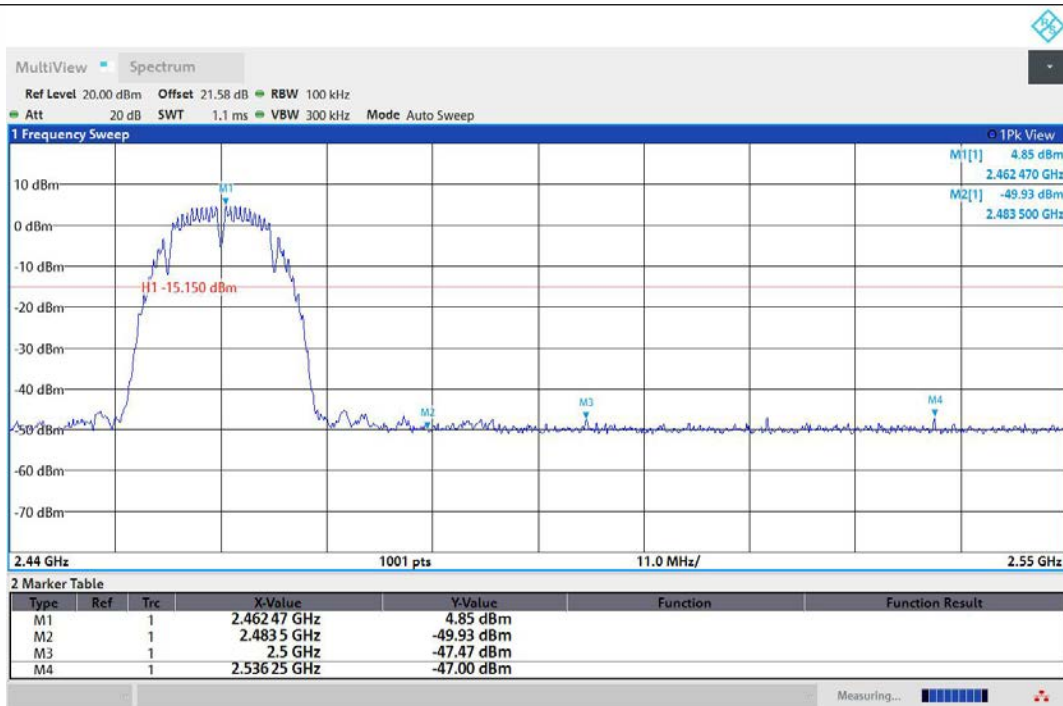
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.97	-46.46	≤-15.03	PASS
11B	Ant2	Low	2412	4.81	-46.66	≤-15.19	PASS
11B	Ant1	High	2462	4.85	-47	≤-15.15	PASS
11B	Ant2	High	2462	4.35	-47.75	≤-15.65	PASS
11G	Ant1	Low	2412	3.52	-22.99	≤-16.48	PASS
11G	Ant2	Low	2412	3.20	-24.64	≤-16.8	PASS
11G	Ant1	High	2462	3.35	-47.49	≤-16.65	PASS
11G	Ant2	High	2462	2.85	-48.21	≤-17.15	PASS
11N20MIMO	Ant1	Low	2412	0.92	-26.53	≤-19.08	PASS
11N20MIMO	Ant2	Low	2412	0.98	-26.82	≤-19.02	PASS
11N20MIMO	Ant1	High	2462	1.12	-47.08	≤-18.88	PASS
11N20MIMO	Ant2	High	2462	0.69	-47.56	≤-19.31	PASS
11N40MIMO	Ant1	Low	2422	-2.09	-32.76	≤-22.09	PASS
11N40MIMO	Ant2	Low	2422	-1.96	-33.83	≤-21.96	PASS
11N40MIMO	Ant1	High	2452	-1.29	-42.52	≤-21.29	PASS
11N40MIMO	Ant2	High	2452	-1.88	-46.66	≤-21.88	PASS
11AX20MIMO	Ant1	Low	2412	1.39	-24.97	≤-18.61	PASS
11AX20MIMO	Ant2	Low	2412	1.29	-24.9	≤-18.71	PASS
11AX20MIMO	Ant1	High	2462	1.34	-47.17	≤-18.66	PASS
11AX20MIMO	Ant2	High	2462	0.83	-47.64	≤-19.17	PASS
11AX40MIMO	Ant1	Low	2422	-2.01	-31.34	≤-22.01	PASS
11AX40MIMO	Ant2	Low	2422	-2.25	-32.1	≤-22.25	PASS
11AX40MIMO	Ant1	High	2452	-1.87	-45.5	≤-21.87	PASS
11AX40MIMO	Ant2	High	2452	-2.27	-47.2	≤-22.27	PASS



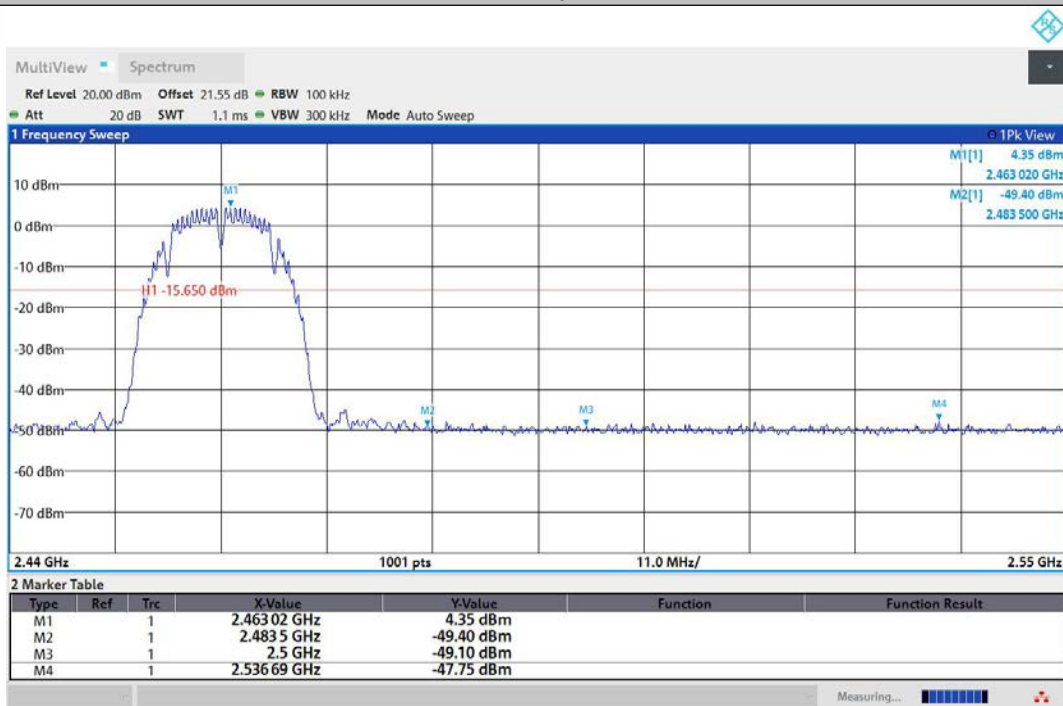
11B-Ant1-2412-PASS



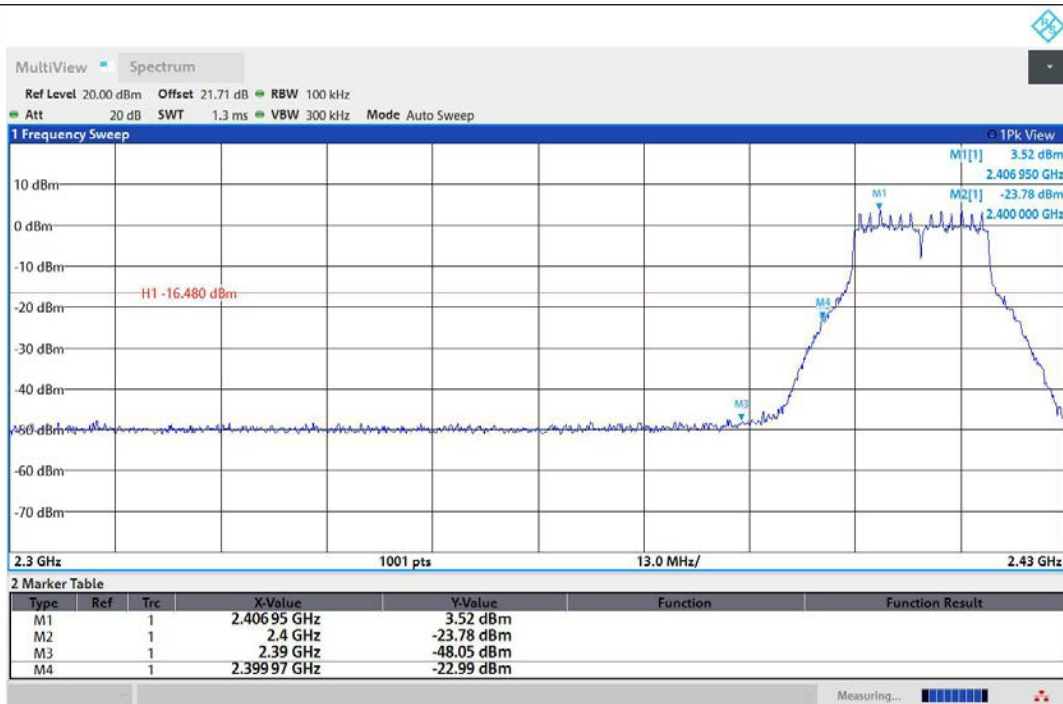
11B-Ant2-2412-PASS



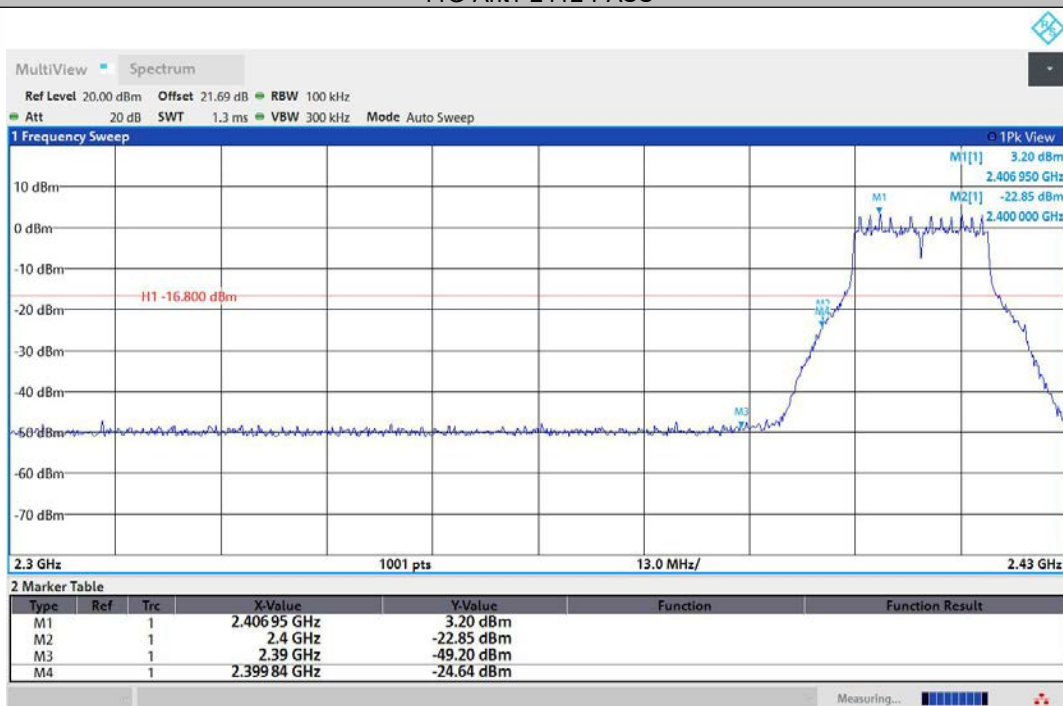
11B-Ant1-2462-PASS



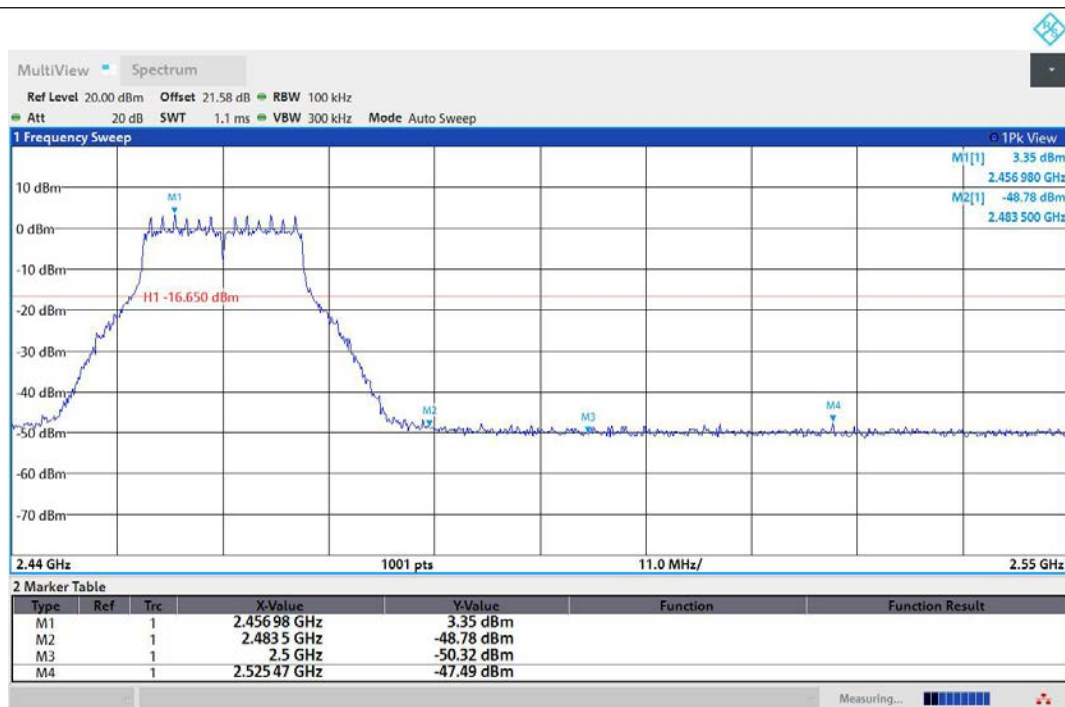
11B-Ant2-2462-PASS



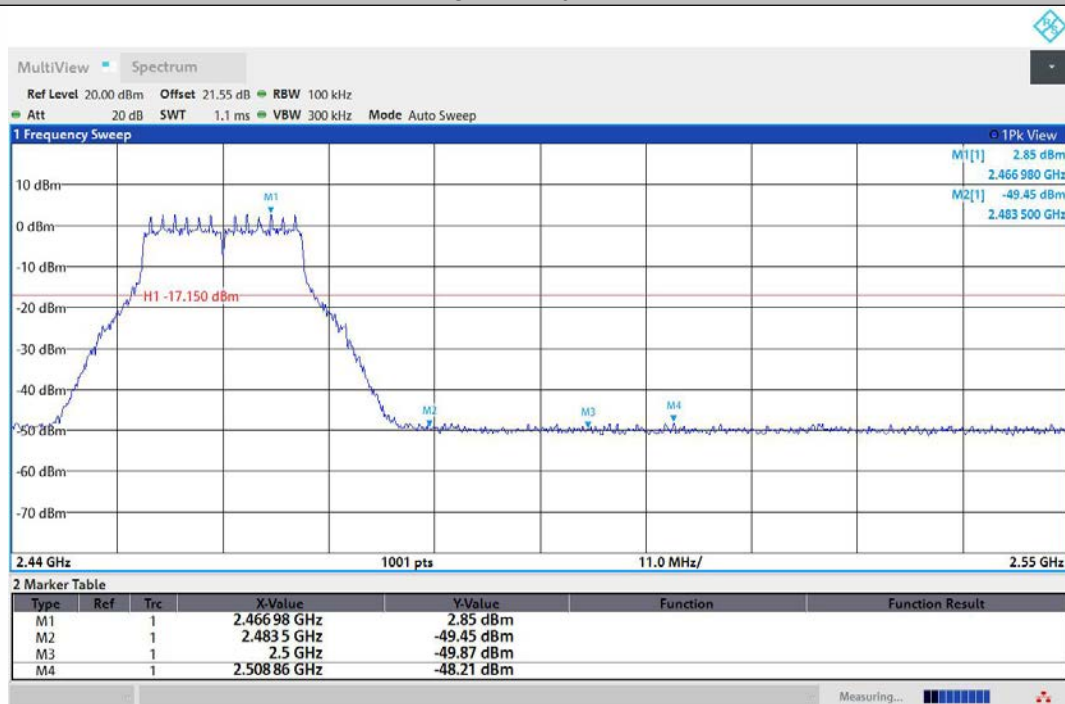
11G-Ant1-2412-PASS



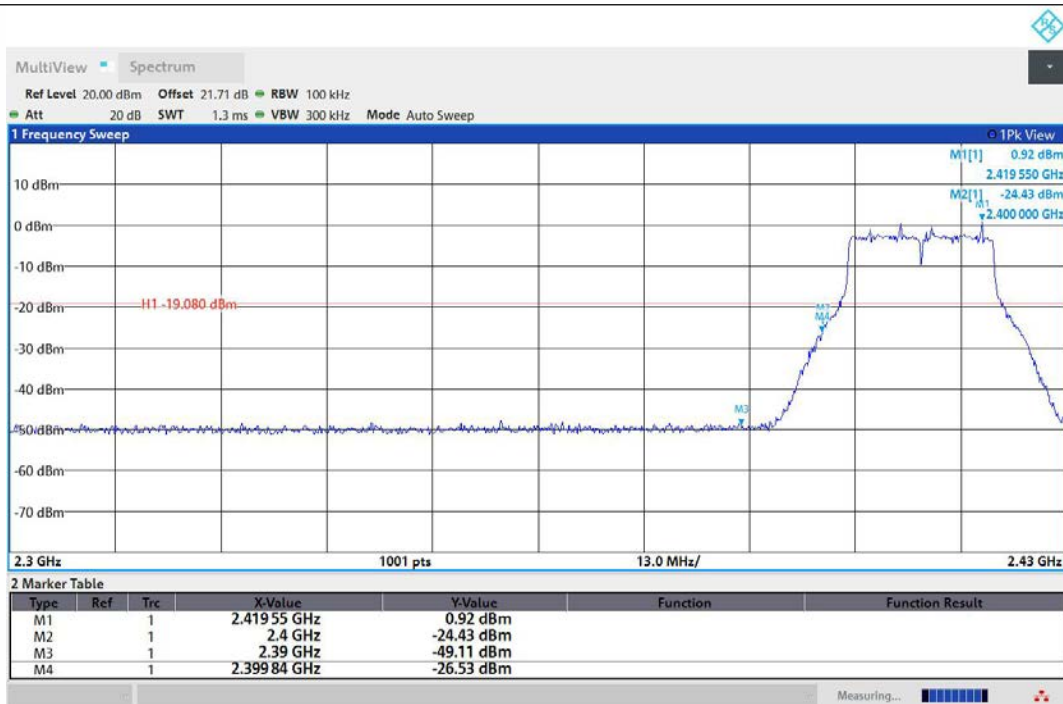
11G-Ant2-2412-PASS



11G-Ant1-2462-PASS



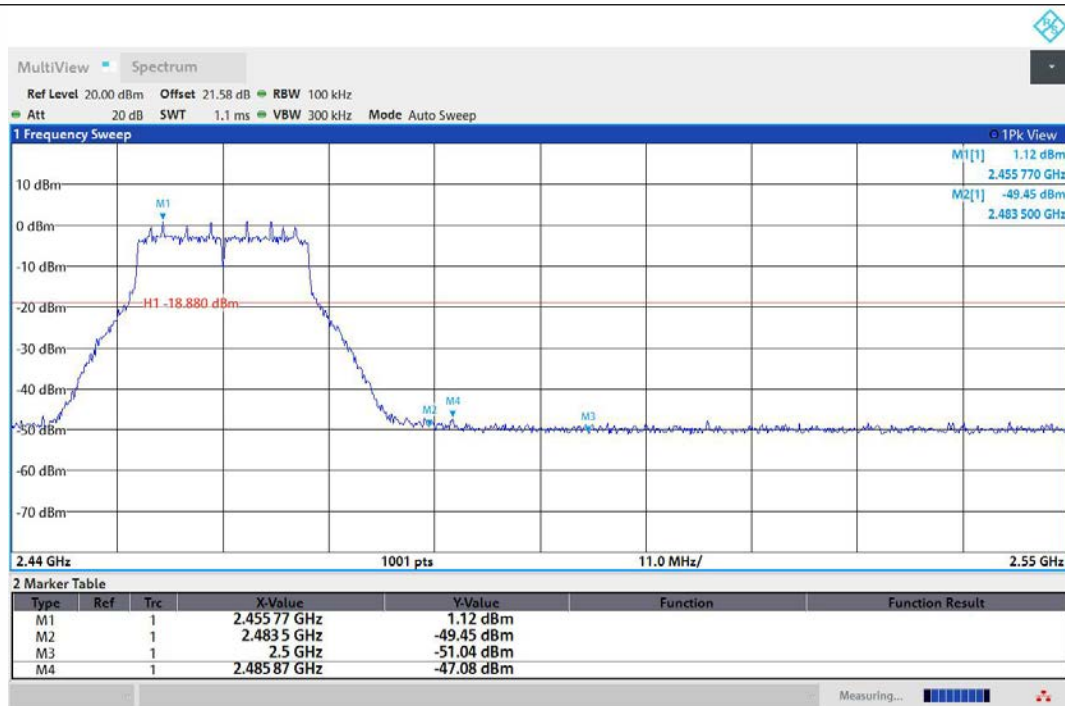
11G-Ant2-2462-PASS



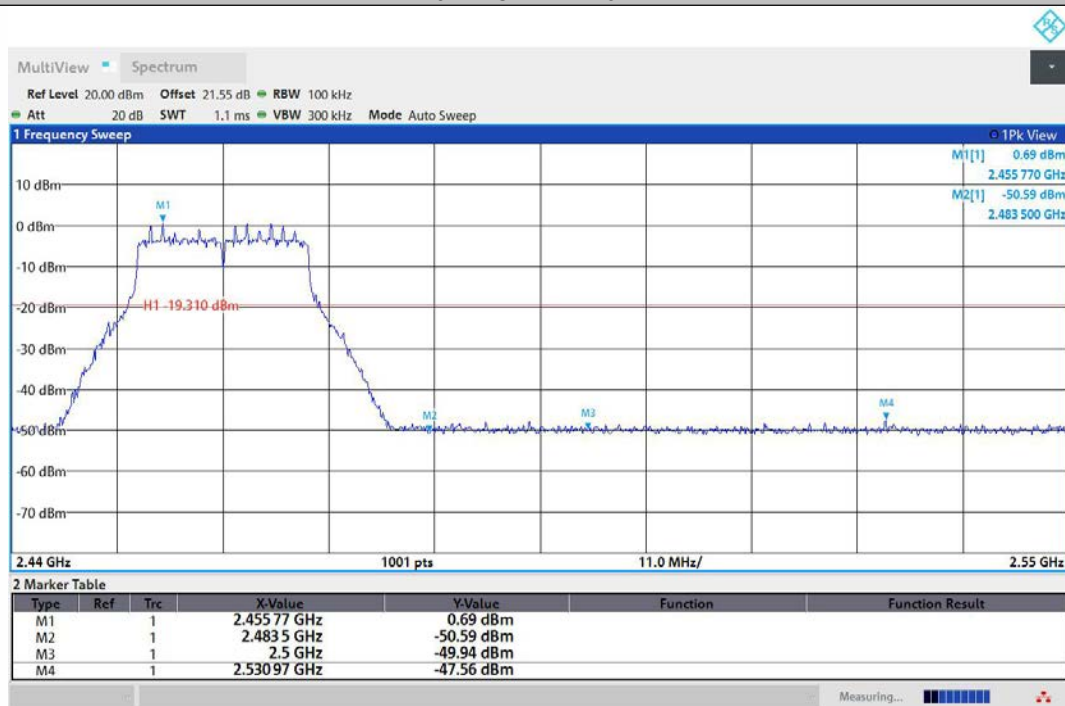
11N20MIMO-Ant1-2412-PASS



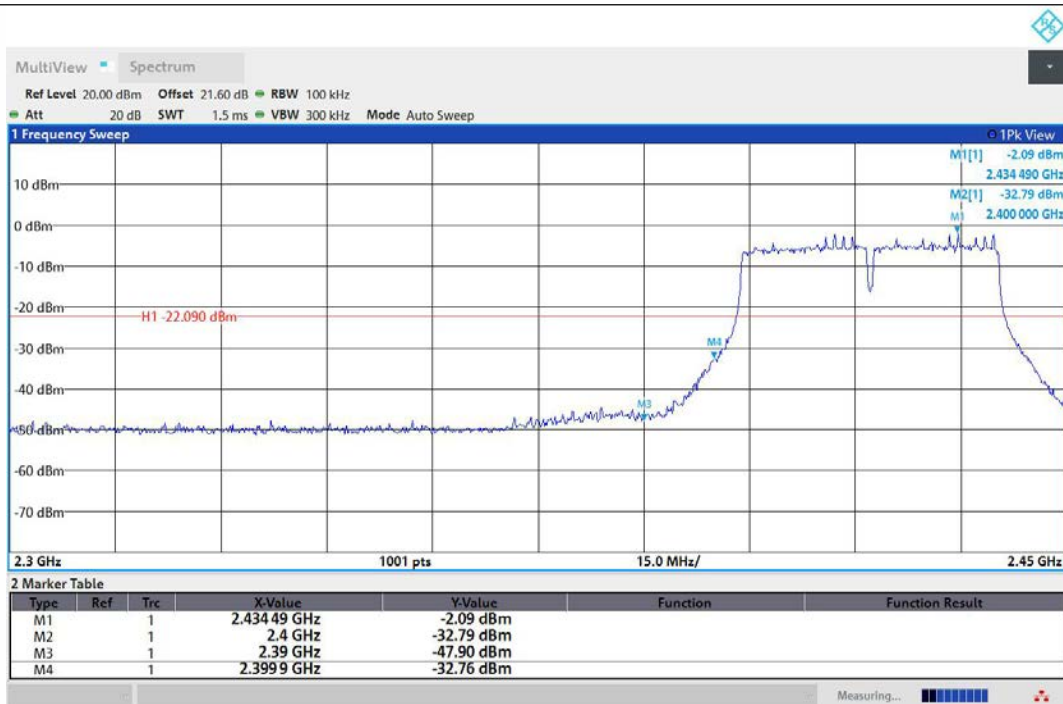
11N20MIMO-Ant2-2412-PASS



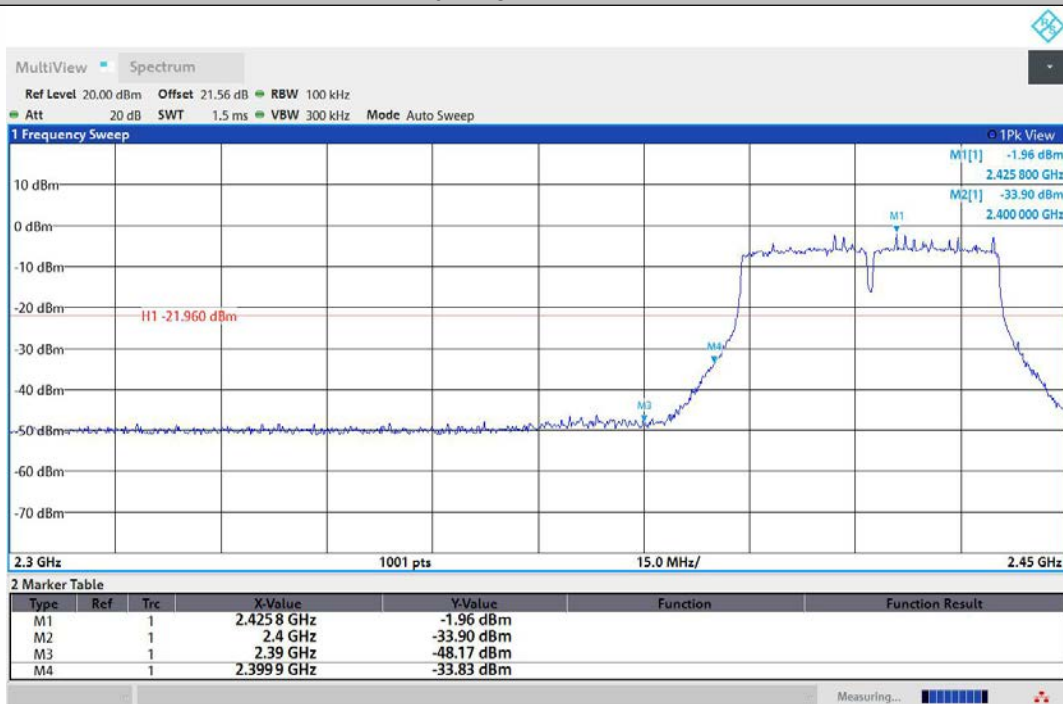
11N20MIMO-Ant1-2462-PASS



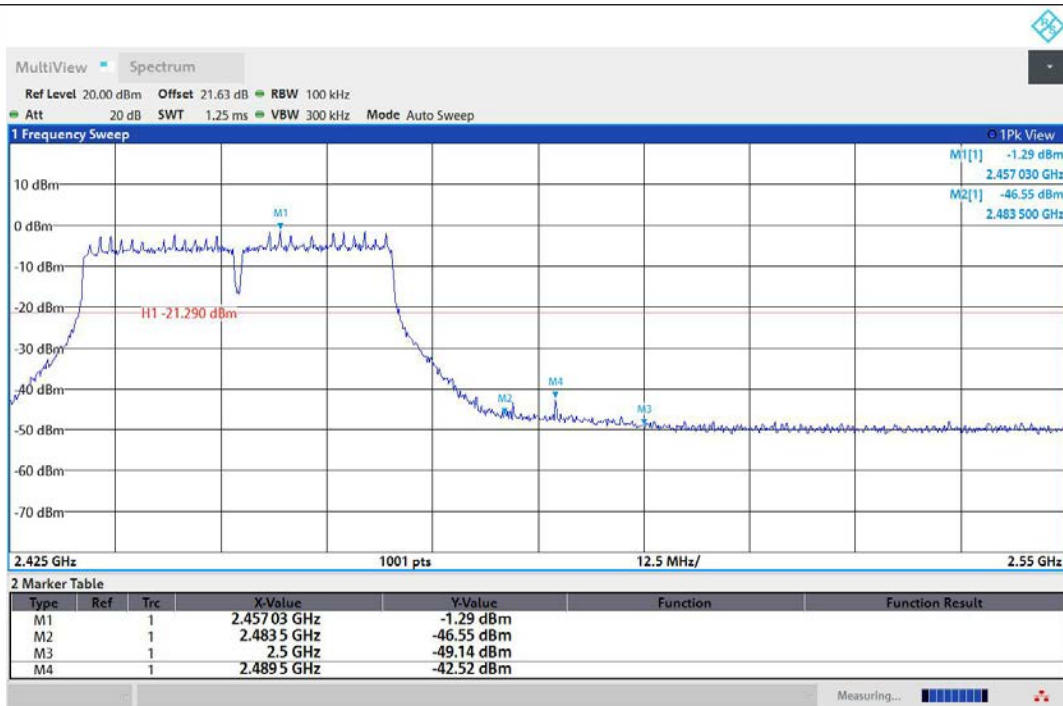
11N20MIMO-Ant2-2462-PASS



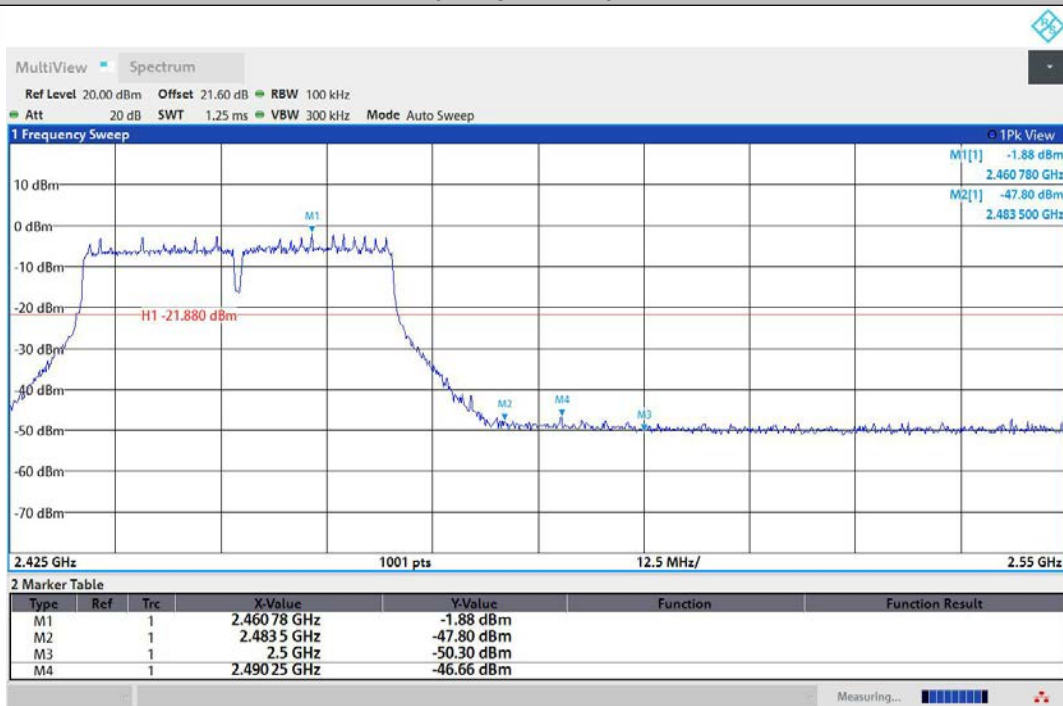
11N40MIMO-Ant1-2422-PASS



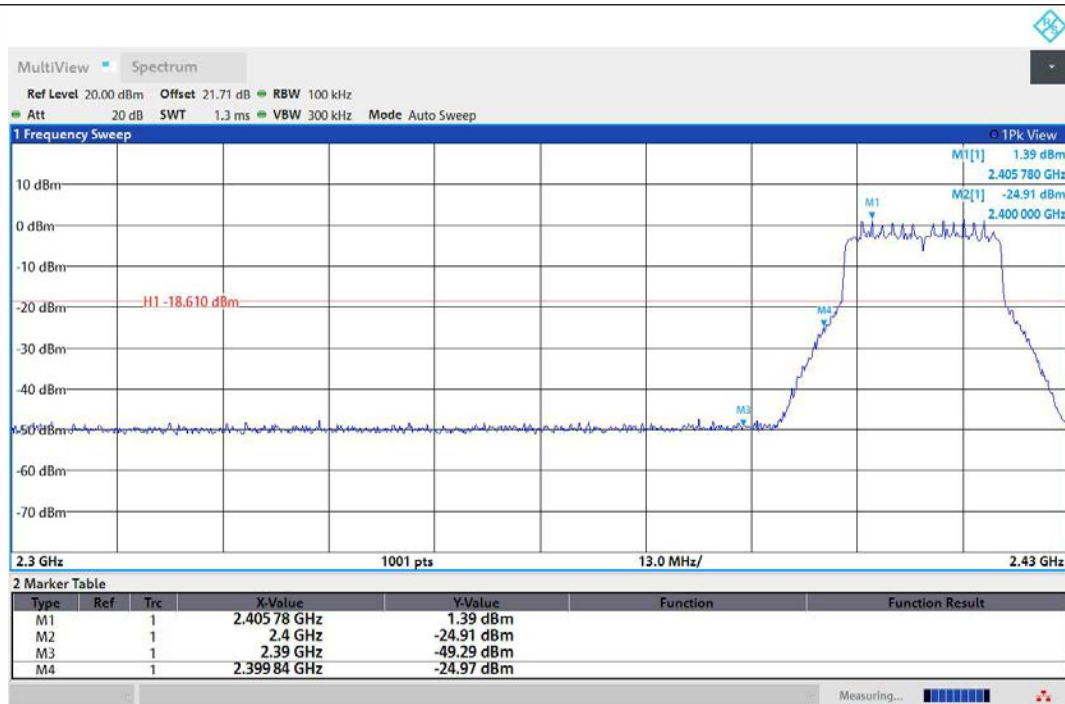
11N40MIMO-Ant2-2422-PASS



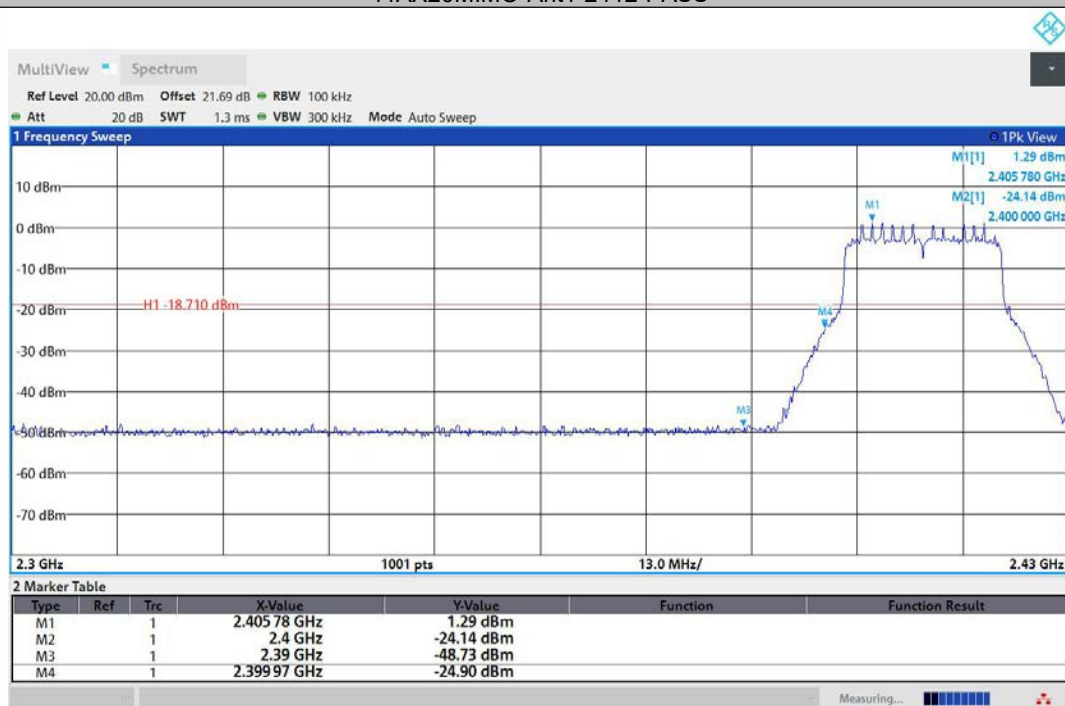
11N40MIMO-Ant1-2452-PASS



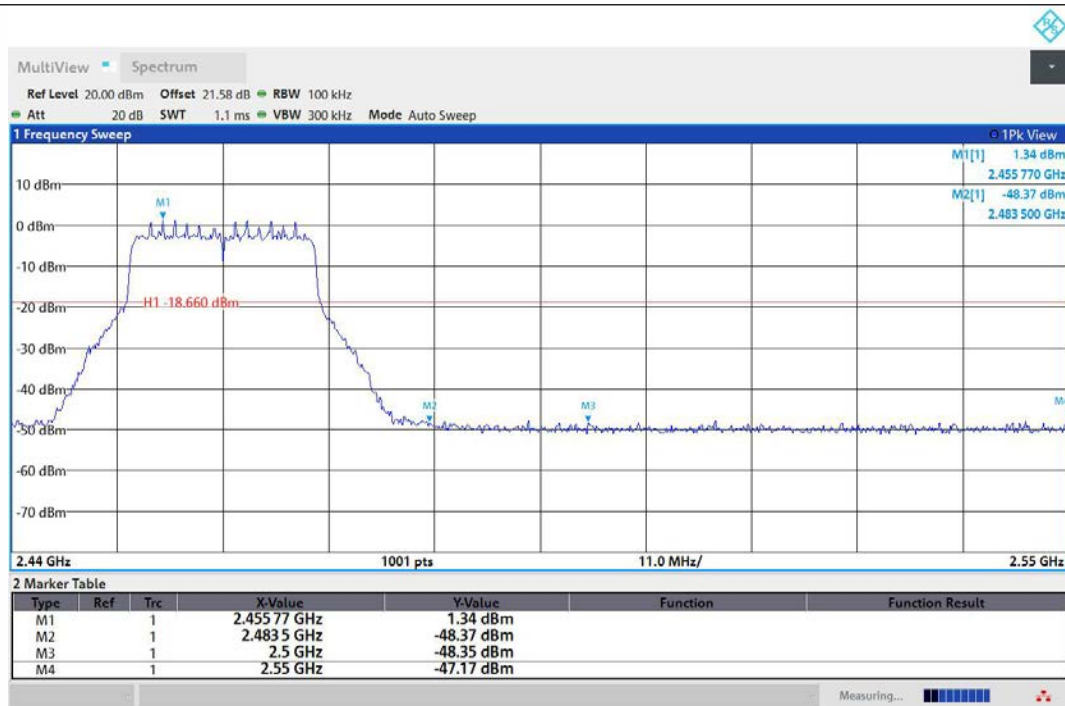
11N40MIMO-Ant2-2452-PASS



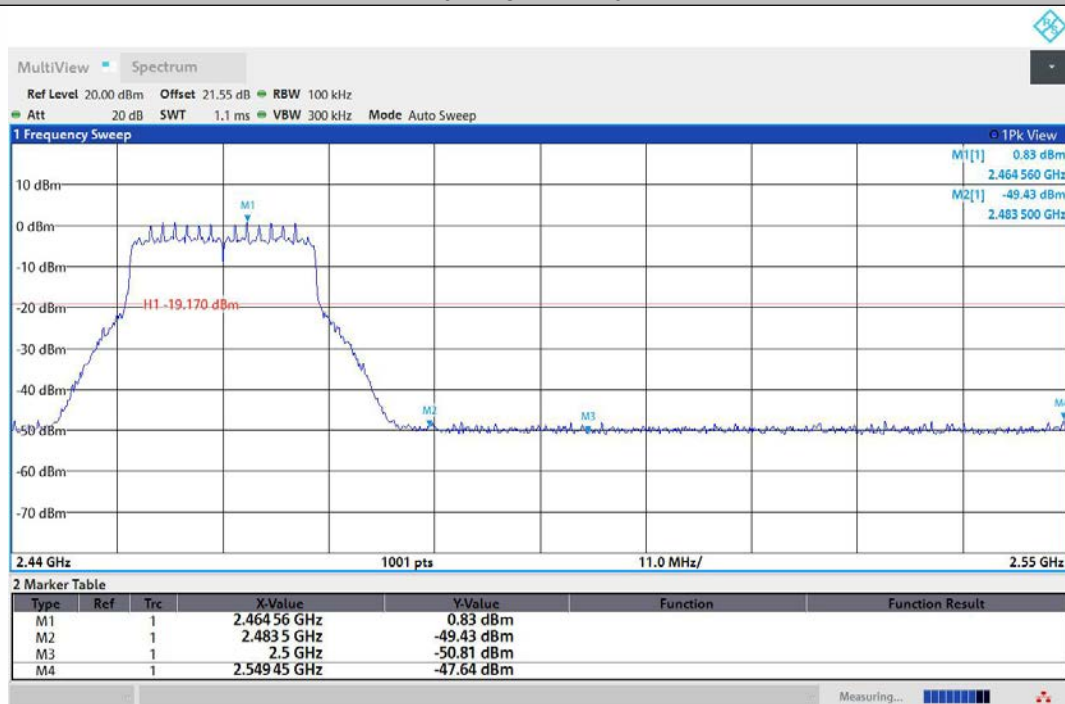
11AX20MIMO-Ant1-2412-PASS



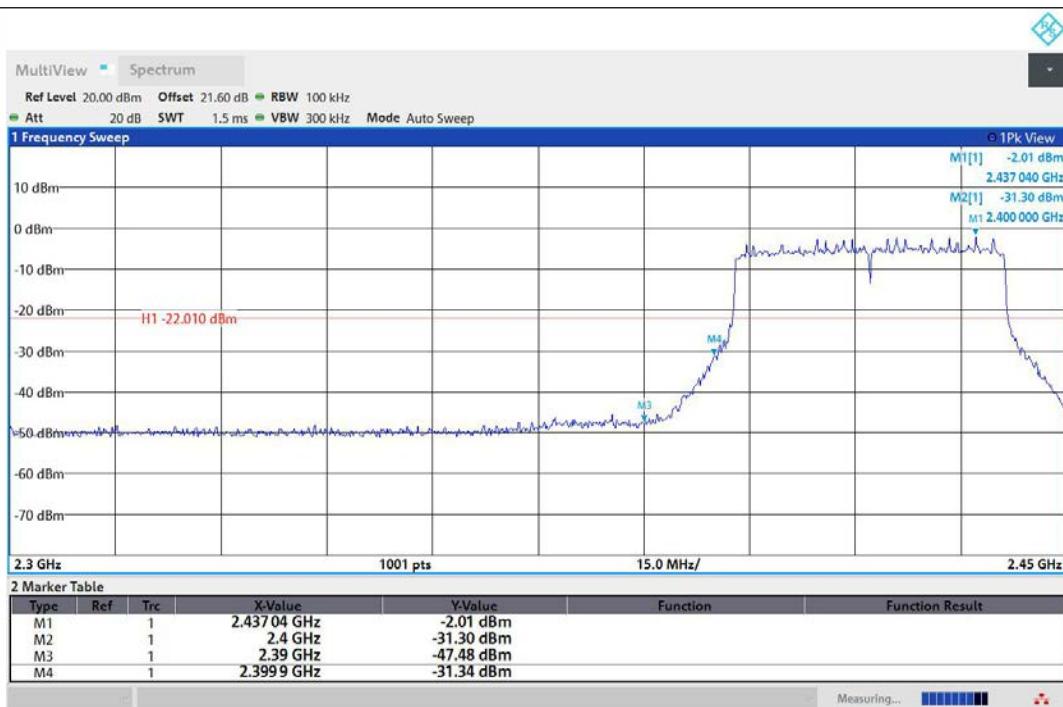
11AX20MIMO-Ant2-2412-PASS



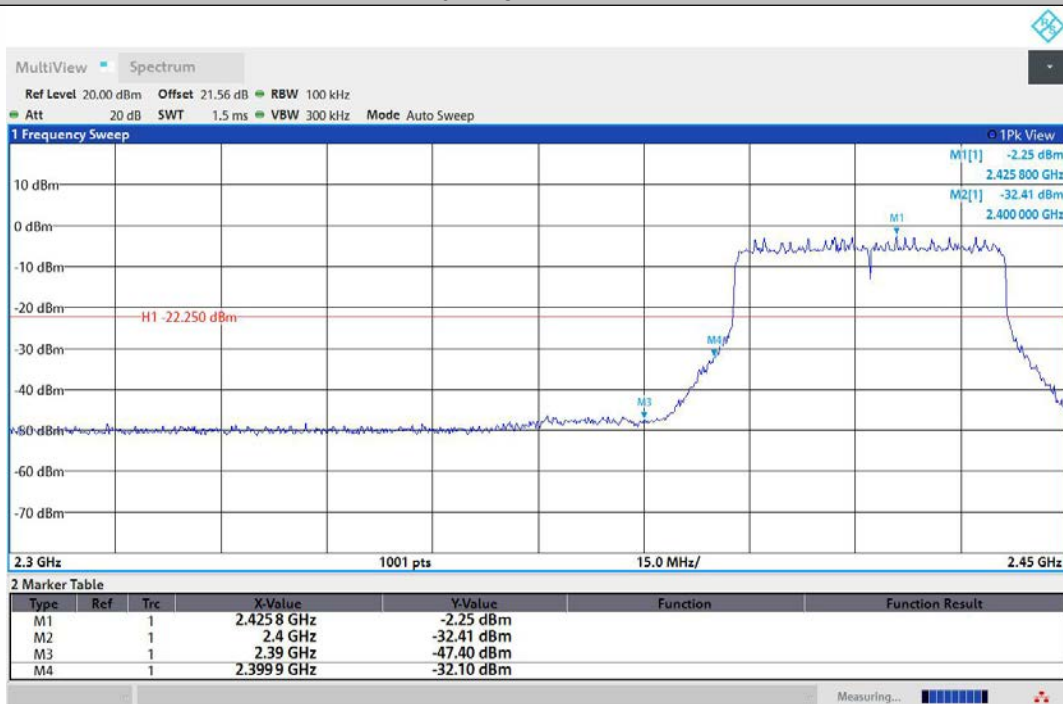
11AX20MIMO-Ant1-2462-PASS



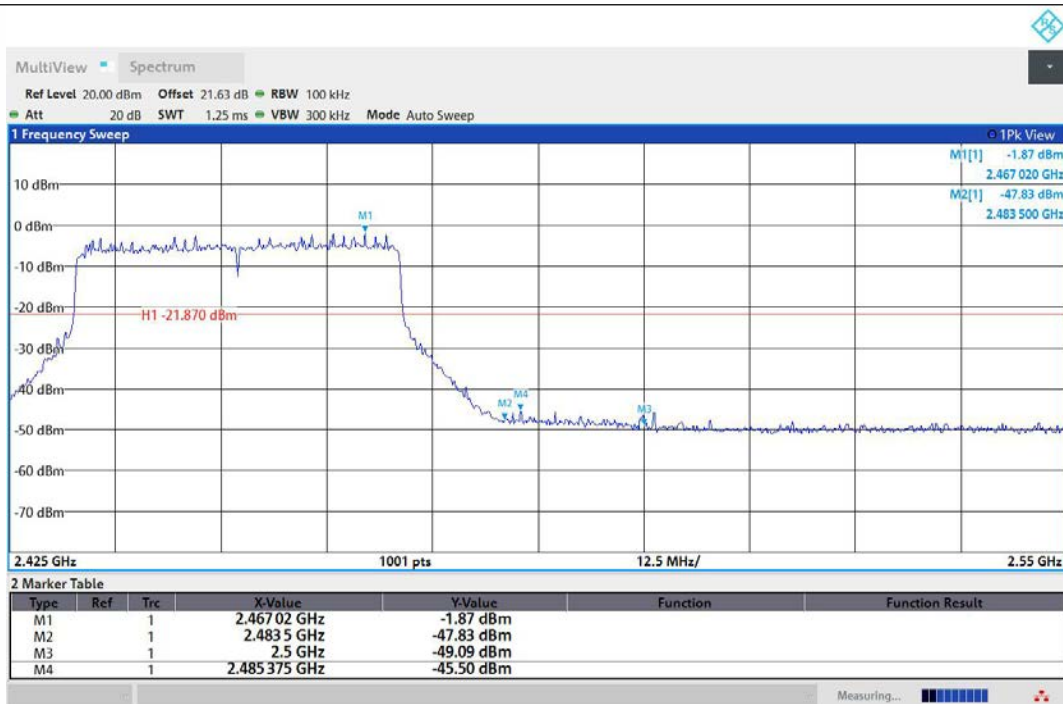
11AX20MIMO-Ant2-2462-PASS



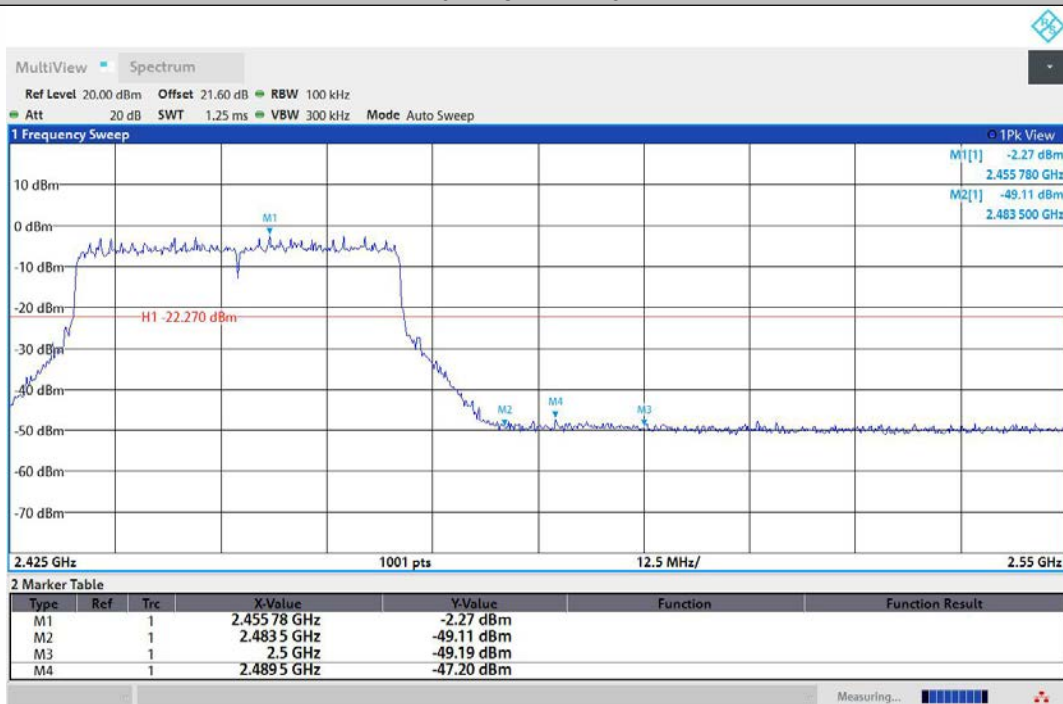
11AX40MIMO-Ant1-2422-PASS



11AX40MIMO-Ant2-2422-PASS



11AX40MIMO-Ant1-2452-PASS

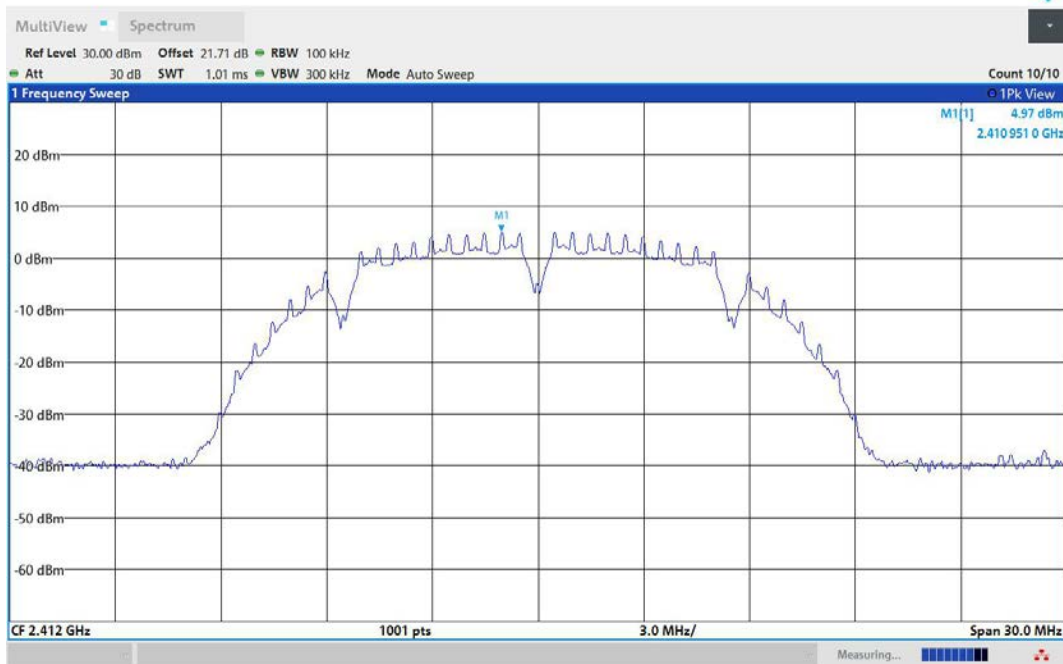


11AX40MIMO-Ant2-2452-PASS

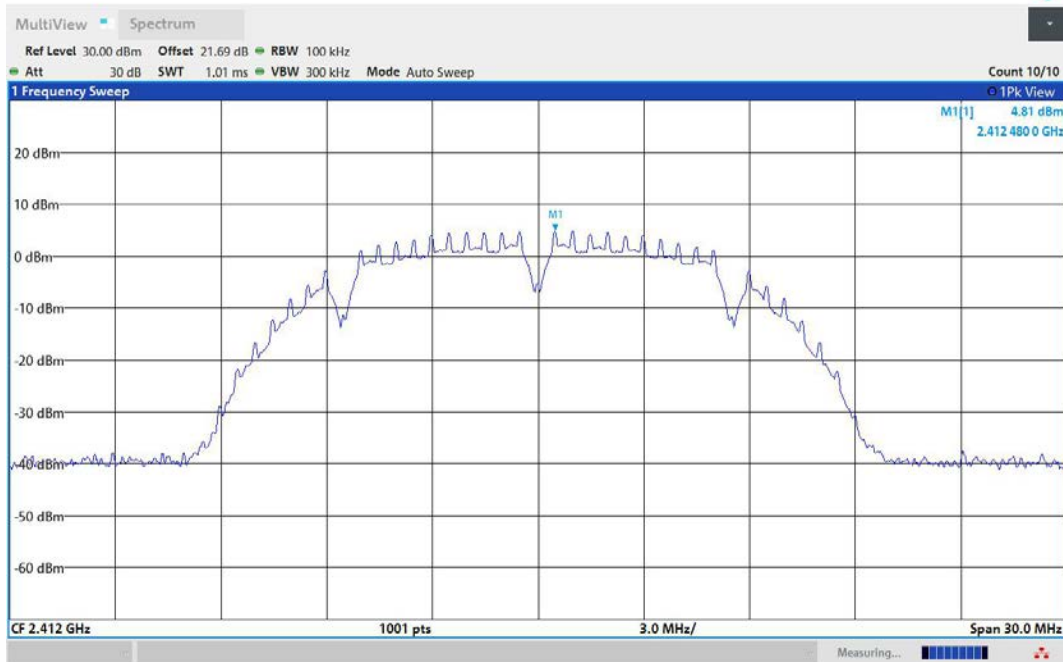
Emission level measurement

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.97	4.97	---	PASS
11B	Ant2	2412	0~Reference	4.81	4.81	---	PASS
11B	Ant1	2412	30~1000	4.97	-54.77	≤-25.03	PASS
11B	Ant2	2412	30~1000	4.81	-54.69	≤-25.19	PASS
11B	Ant1	2412	1000~26500	4.97	-50.51	≤-25.03	PASS
11B	Ant2	2412	1000~26500	4.81	-45.4	≤-25.19	PASS
11B	Ant1	2437	0~Reference	4.98	4.98	---	PASS
11B	Ant2	2437	0~Reference	4.68	4.68	---	PASS
11B	Ant1	2437	30~1000	4.98	-53.81	≤-25.02	PASS
11B	Ant2	2437	30~1000	4.68	-54.93	≤-25.32	PASS
11B	Ant1	2437	1000~26500	4.98	-49.76	≤-25.02	PASS
11B	Ant2	2437	1000~26500	4.68	-49.11	≤-25.32	PASS
11B	Ant1	2462	0~Reference	4.87	4.87	---	PASS
11B	Ant2	2462	0~Reference	4.43	4.43	---	PASS
11B	Ant1	2462	30~1000	4.87	-54.97	≤-25.13	PASS
11B	Ant2	2462	30~1000	4.43	-54.92	≤-25.57	PASS
11B	Ant1	2462	1000~26500	4.87	-50.26	≤-25.13	PASS
11B	Ant2	2462	1000~26500	4.43	-49.91	≤-25.57	PASS
11G	Ant1	2412	0~Reference	3.50	3.50	---	PASS
11G	Ant2	2412	0~Reference	3.30	3.30	---	PASS
11G	Ant1	2412	30~1000	3.50	-54.7	≤-26.5	PASS
11G	Ant2	2412	30~1000	3.30	-54.95	≤-26.7	PASS
11G	Ant1	2412	1000~26500	3.50	-49.92	≤-26.5	PASS
11G	Ant2	2412	1000~26500	3.30	-49.86	≤-26.7	PASS
11G	Ant1	2437	0~Reference	3.56	3.56	---	PASS
11G	Ant2	2437	0~Reference	3.22	3.22	---	PASS
11G	Ant1	2437	30~1000	3.56	-54.3	≤-26.44	PASS
11G	Ant2	2437	30~1000	3.22	-55.51	≤-26.78	PASS
11G	Ant1	2437	1000~26500	3.56	-49.1	≤-26.44	PASS
11G	Ant2	2437	1000~26500	3.22	-49.97	≤-26.78	PASS
11G	Ant1	2462	0~Reference	3.27	3.27	---	PASS
11G	Ant2	2462	0~Reference	2.84	2.84	---	PASS
11G	Ant1	2462	30~1000	3.27	-55.15	≤-26.73	PASS
11G	Ant2	2462	30~1000	2.84	-55.01	≤-27.16	PASS
11G	Ant1	2462	1000~26500	3.27	-50.55	≤-26.73	PASS
11G	Ant2	2462	1000~26500	2.84	-49.37	≤-27.16	PASS
11N20MIMO	Ant1	2412	0~Reference	0.99	0.99	---	PASS
11N20MIMO	Ant2	2412	0~Reference	1.06	1.06	---	PASS
11N20MIMO	Ant1	2412	30~1000	0.99	-54.39	≤-29.01	PASS
11N20MIMO	Ant2	2412	30~1000	1.06	-54.91	≤-28.94	PASS
11N20MIMO	Ant1	2412	1000~26500	0.99	-49.78	≤-29.01	PASS
11N20MIMO	Ant2	2412	1000~26500	1.06	-50.3	≤-28.94	PASS
11N20MIMO	Ant1	2437	0~Reference	0.42	0.42	---	PASS
11N20MIMO	Ant2	2437	0~Reference	0.78	0.78	---	PASS
11N20MIMO	Ant1	2437	30~1000	0.42	-55.63	≤-29.58	PASS
11N20MIMO	Ant2	2437	30~1000	0.78	-54.28	≤-29.22	PASS
11N20MIMO	Ant1	2437	1000~26500	0.42	-50.06	≤-29.58	PASS
11N20MIMO	Ant2	2437	1000~26500	0.78	-49.46	≤-29.22	PASS
11N20MIMO	Ant1	2462	0~Reference	1.12	1.12	---	PASS
11N20MIMO	Ant2	2462	0~Reference	0.73	0.73	---	PASS
11N20MIMO	Ant1	2462	30~1000	1.12	-54.64	≤-28.88	PASS
11N20MIMO	Ant2	2462	30~1000	0.73	-55.71	≤-29.27	PASS
11N20MIMO	Ant1	2462	1000~26500	1.12	-49.45	≤-28.88	PASS
11N20MIMO	Ant2	2462	1000~26500	0.73	-50.18	≤-29.27	PASS
11N40MIMO	Ant1	2422	0~Reference	-1.89	-1.89	---	PASS
11N40MIMO	Ant2	2422	0~Reference	-2.55	-2.55	---	PASS
11N40MIMO	Ant1	2422	30~1000	-1.89	-54.28	≤-31.89	PASS
11N40MIMO	Ant2	2422	30~1000	-2.55	-54.82	≤-32.55	PASS
11N40MIMO	Ant1	2422	1000~26500	-1.89	-50.17	≤-31.89	PASS

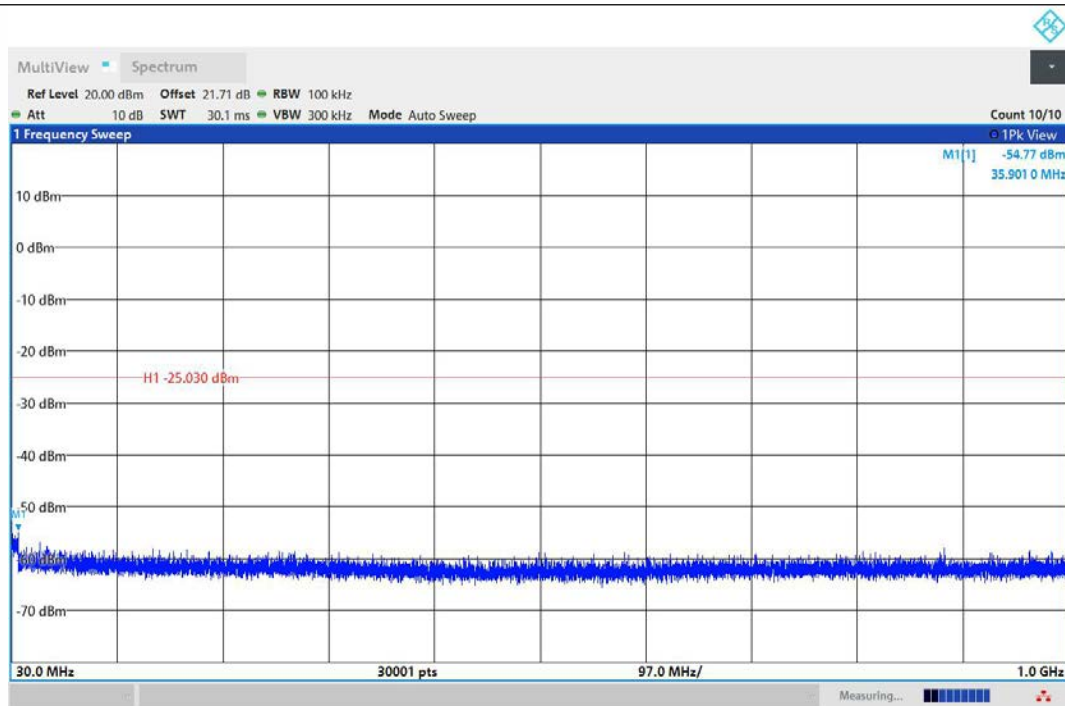
11N40MIMO	Ant2	2422	1000~26500	-2.55	-50.2	≤-32.55	PASS
11N40MIMO	Ant1	2437	0~Reference	-1.45	-1.45	---	PASS
11N40MIMO	Ant2	2437	0~Reference	-1.62	-1.62	---	PASS
11N40MIMO	Ant1	2437	30~1000	-1.45	-53.62	≤-31.45	PASS
11N40MIMO	Ant2	2437	30~1000	-1.62	-54.88	≤-31.62	PASS
11N40MIMO	Ant1	2437	1000~26500	-1.45	-50.34	≤-31.45	PASS
11N40MIMO	Ant2	2437	1000~26500	-1.62	-50.48	≤-31.62	PASS
11N40MIMO	Ant1	2452	0~Reference	-1.25	-1.25	---	PASS
11N40MIMO	Ant2	2452	0~Reference	-1.85	-1.85	---	PASS
11N40MIMO	Ant1	2452	30~1000	-1.25	-55.52	≤-31.25	PASS
11N40MIMO	Ant2	2452	30~1000	-1.85	-54.88	≤-31.85	PASS
11N40MIMO	Ant1	2452	1000~26500	-1.25	-50.18	≤-31.25	PASS
11N40MIMO	Ant2	2452	1000~26500	-1.85	-49.71	≤-31.85	PASS
11AX20MIMO	Ant1	2412	0~Reference	1.33	1.33	---	PASS
11AX20MIMO	Ant2	2412	0~Reference	1.37	1.37	---	PASS
11AX20MIMO	Ant1	2412	30~1000	1.33	-54.94	≤-28.67	PASS
11AX20MIMO	Ant2	2412	30~1000	1.37	-53.92	≤-28.63	PASS
11AX20MIMO	Ant1	2412	1000~26500	1.33	-49.67	≤-28.67	PASS
11AX20MIMO	Ant2	2412	1000~26500	1.37	-49.97	≤-28.63	PASS
11AX20MIMO	Ant1	2437	0~Reference	1.43	1.43	---	PASS
11AX20MIMO	Ant2	2437	0~Reference	1.06	1.06	---	PASS
11AX20MIMO	Ant1	2437	30~1000	1.43	-54.86	≤-28.57	PASS
11AX20MIMO	Ant2	2437	30~1000	1.06	-54.28	≤-28.94	PASS
11AX20MIMO	Ant1	2437	1000~26500	1.43	-49.79	≤-28.57	PASS
11AX20MIMO	Ant2	2437	1000~26500	1.06	-50.31	≤-28.94	PASS
11AX20MIMO	Ant1	2462	0~Reference	1.37	1.37	---	PASS
11AX20MIMO	Ant2	2462	0~Reference	1.07	1.07	---	PASS
11AX20MIMO	Ant1	2462	30~1000	1.37	-54.55	≤-28.63	PASS
11AX20MIMO	Ant2	2462	30~1000	1.07	-55.36	≤-28.93	PASS
11AX20MIMO	Ant1	2462	1000~26500	1.37	-49.93	≤-28.63	PASS
11AX20MIMO	Ant2	2462	1000~26500	1.07	-50.51	≤-28.93	PASS
11AX40MIMO	Ant1	2422	0~Reference	-2.03	-2.03	---	PASS
11AX40MIMO	Ant2	2422	0~Reference	-2.11	-2.11	---	PASS
11AX40MIMO	Ant1	2422	30~1000	-2.03	-55.33	≤-32.03	PASS
11AX40MIMO	Ant2	2422	30~1000	-2.11	-54.62	≤-32.11	PASS
11AX40MIMO	Ant1	2422	1000~26500	-2.03	-49.78	≤-32.03	PASS
11AX40MIMO	Ant2	2422	1000~26500	-2.11	-49.83	≤-32.11	PASS
11AX40MIMO	Ant1	2437	0~Reference	-1.87	-1.87	---	PASS
11AX40MIMO	Ant2	2437	0~Reference	-2.32	-2.32	---	PASS
11AX40MIMO	Ant1	2437	30~1000	-1.87	-54.16	≤-31.87	PASS
11AX40MIMO	Ant2	2437	30~1000	-2.32	-54.59	≤-32.32	PASS
11AX40MIMO	Ant1	2437	1000~26500	-1.87	-49.76	≤-31.87	PASS
11AX40MIMO	Ant2	2437	1000~26500	-2.32	-50.01	≤-32.32	PASS
11AX40MIMO	Ant1	2452	0~Reference	-2.07	-2.07	---	PASS
11AX40MIMO	Ant2	2452	0~Reference	-2.31	-2.31	---	PASS
11AX40MIMO	Ant1	2452	30~1000	-2.07	-54.74	≤-32.07	PASS
11AX40MIMO	Ant2	2452	30~1000	-2.31	-54.78	≤-32.31	PASS
11AX40MIMO	Ant1	2452	1000~26500	-2.07	-50.05	≤-32.07	PASS
11AX40MIMO	Ant2	2452	1000~26500	-2.31	-50.23	≤-32.31	PASS



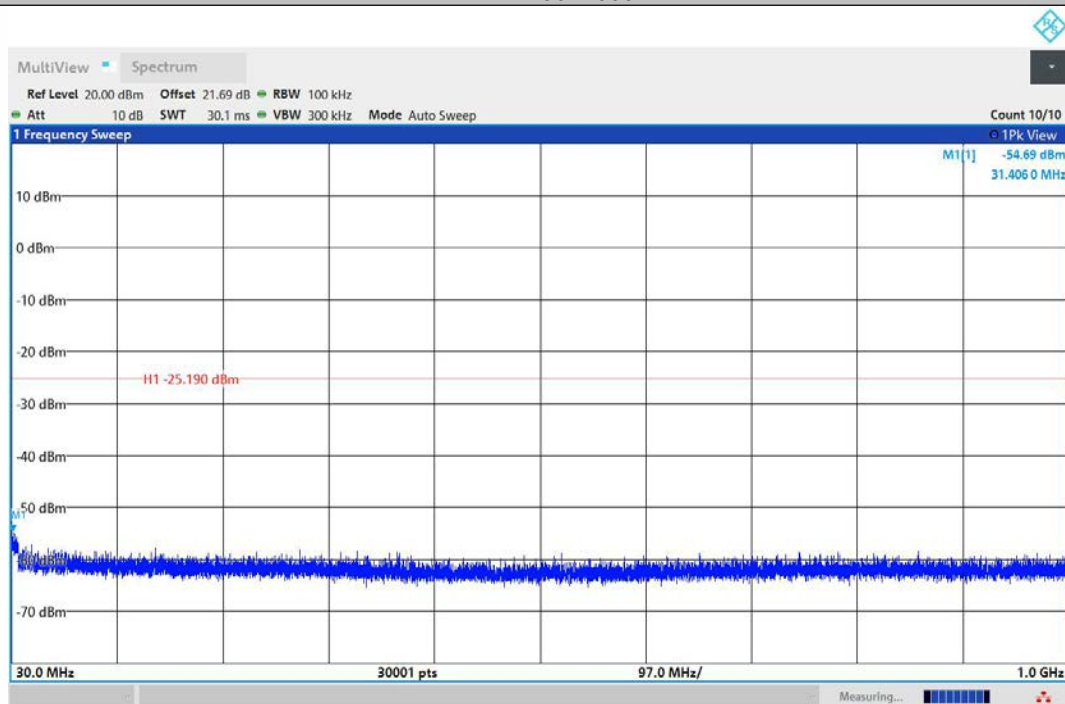
11B-Ant1-2412-0~Reference-PASS



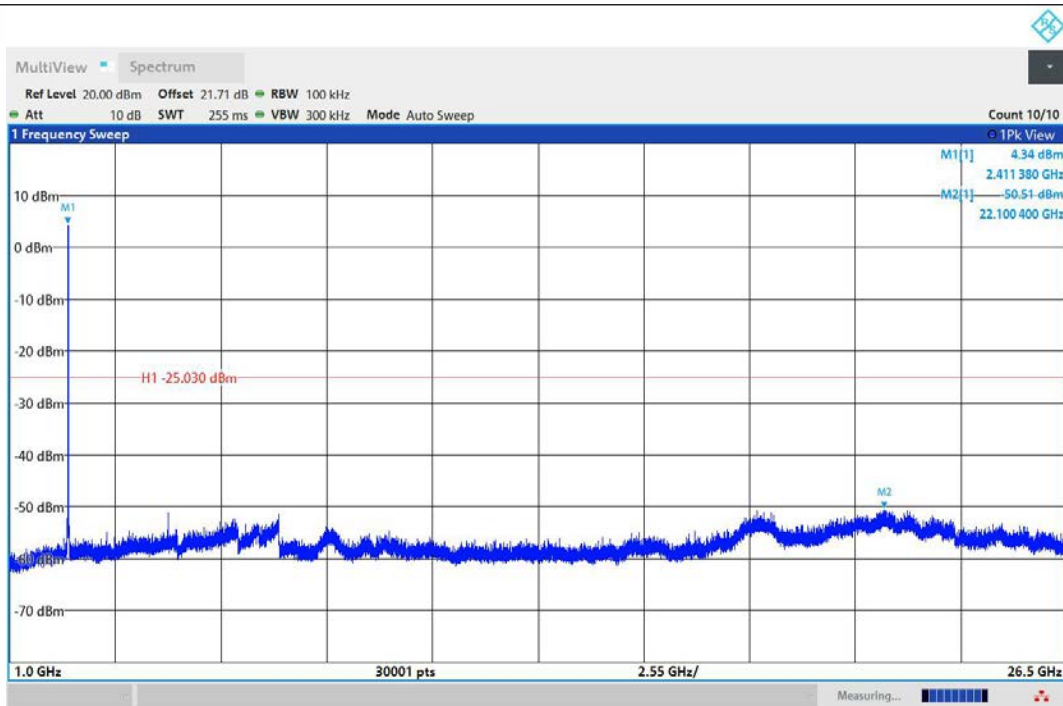
11B-Ant2-2412-0~Reference-PASS



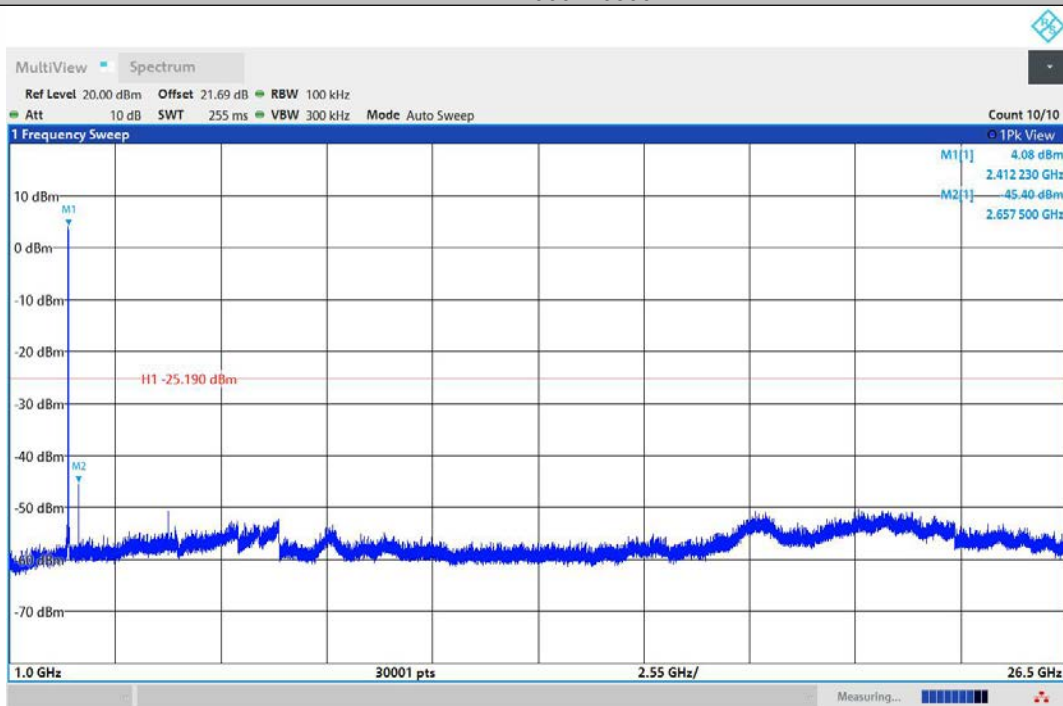
11B-Ant1-2412-30~1000-PASS



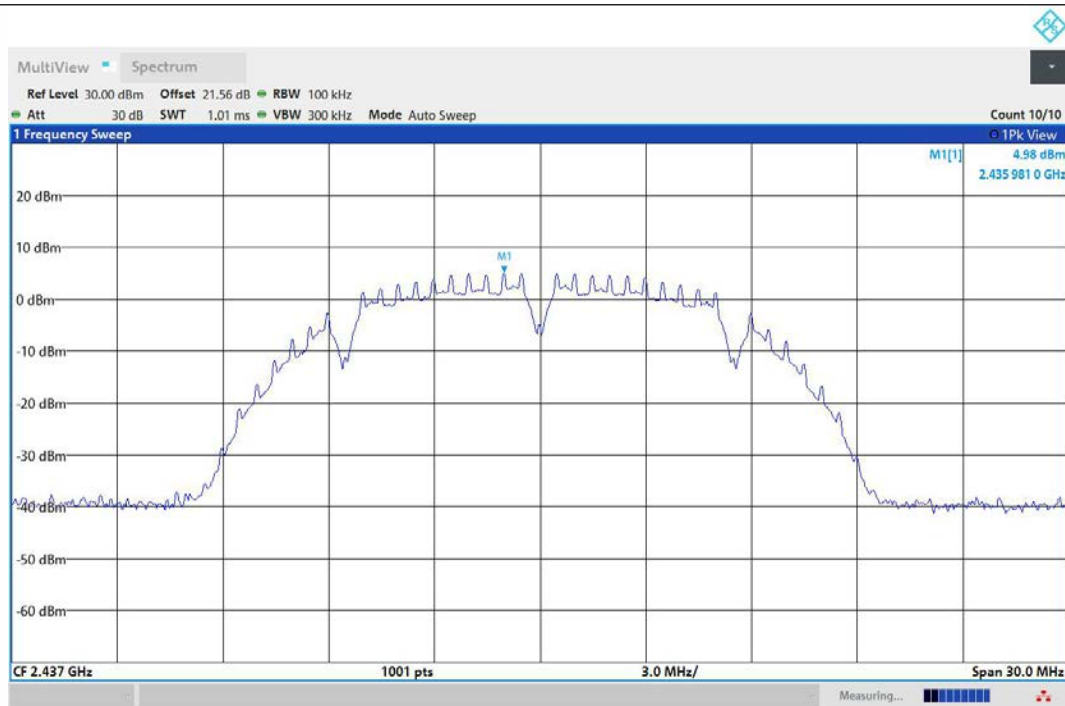
11B-Ant2-2412-30~1000-PASS



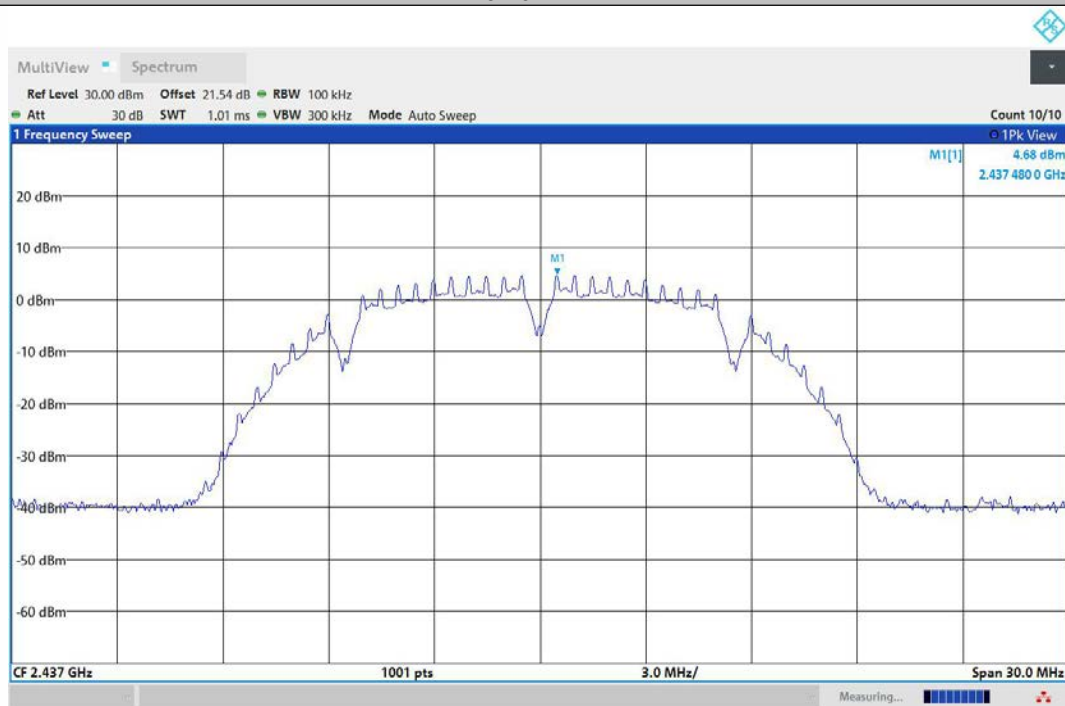
11B-Ant1-2412-1000~26500-PASS



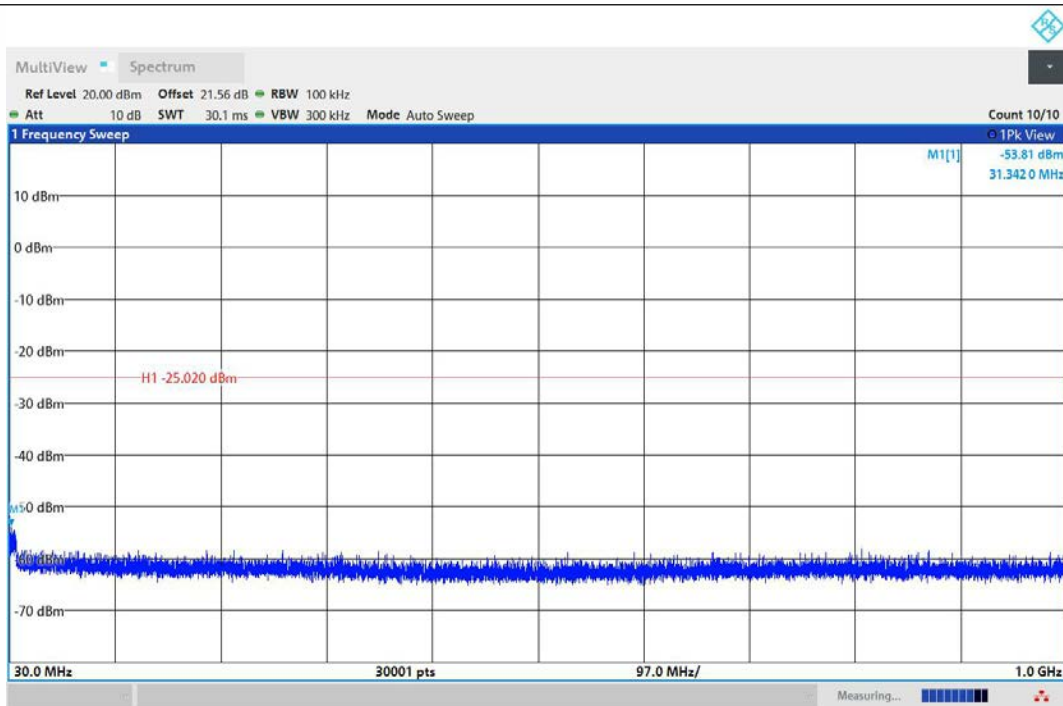
11B-Ant2-2412-1000~26500-PASS



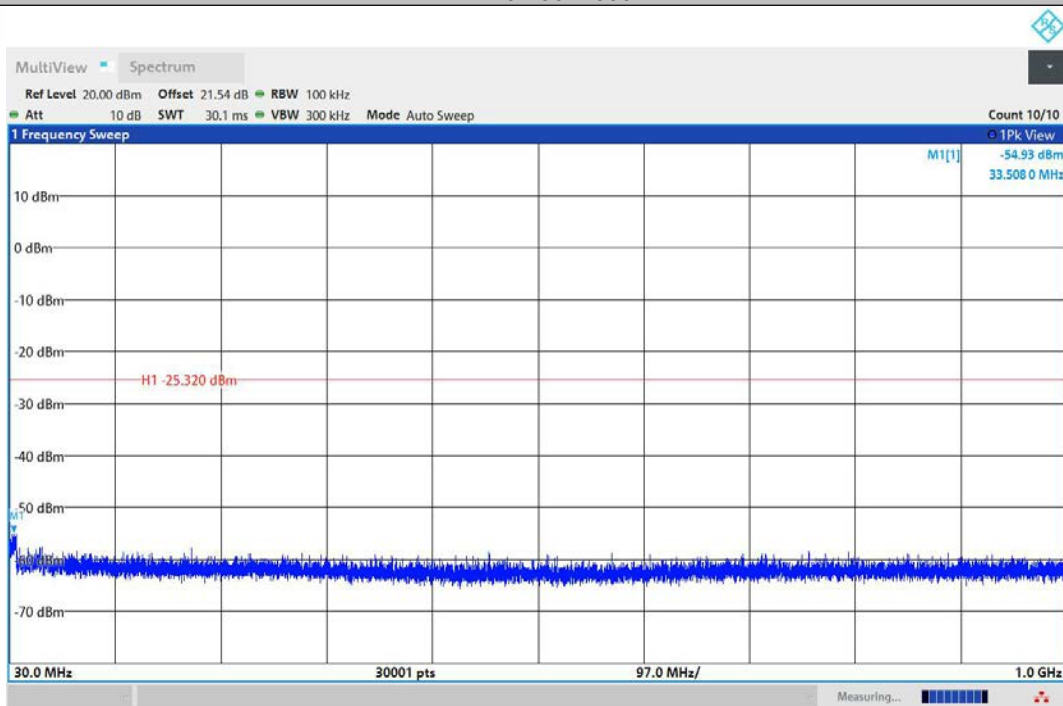
11B-Ant1-2437-0~Reference-PASS



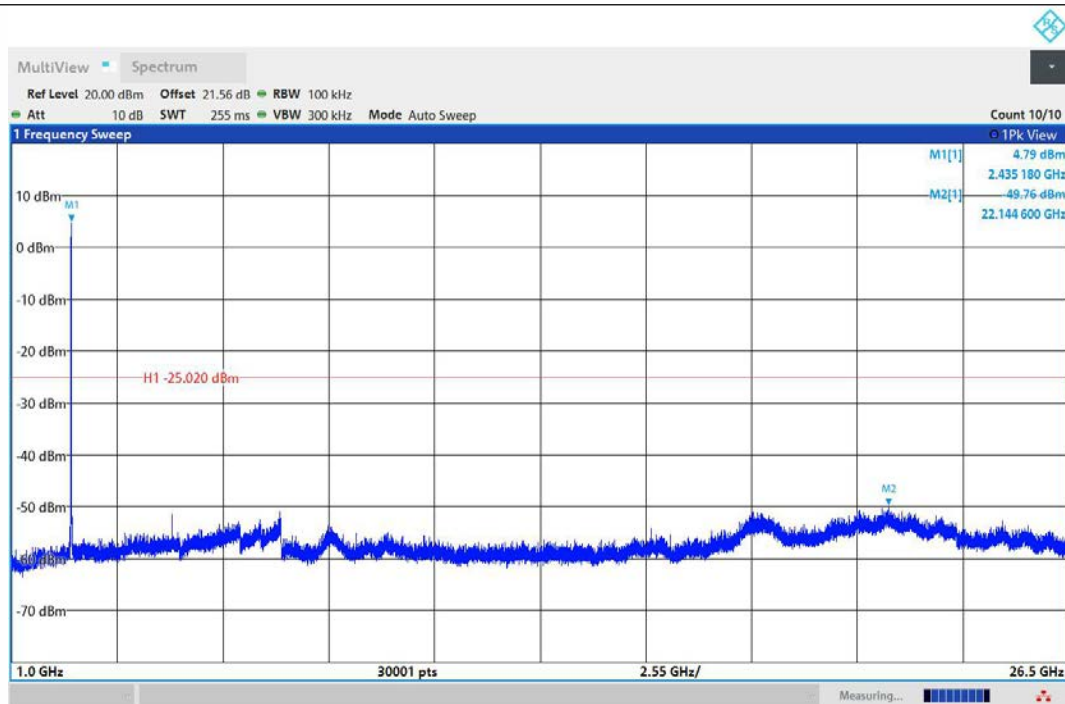
11B-Ant2-2437-0~Reference-PASS



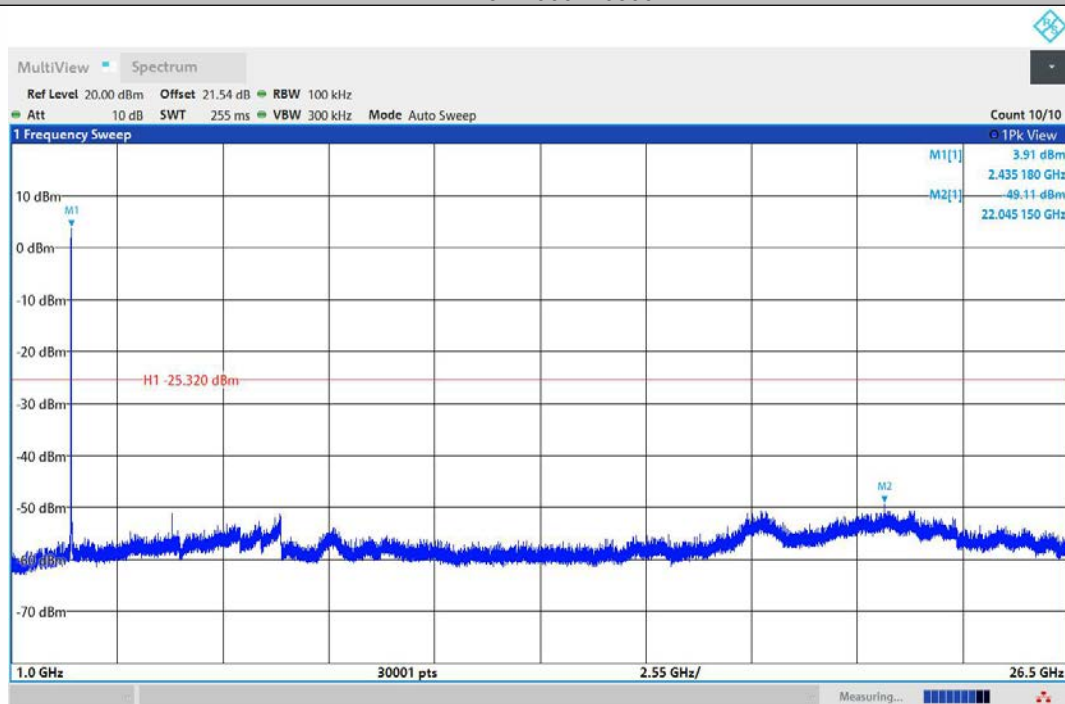
11B-Ant1-2437-30~1000-PASS



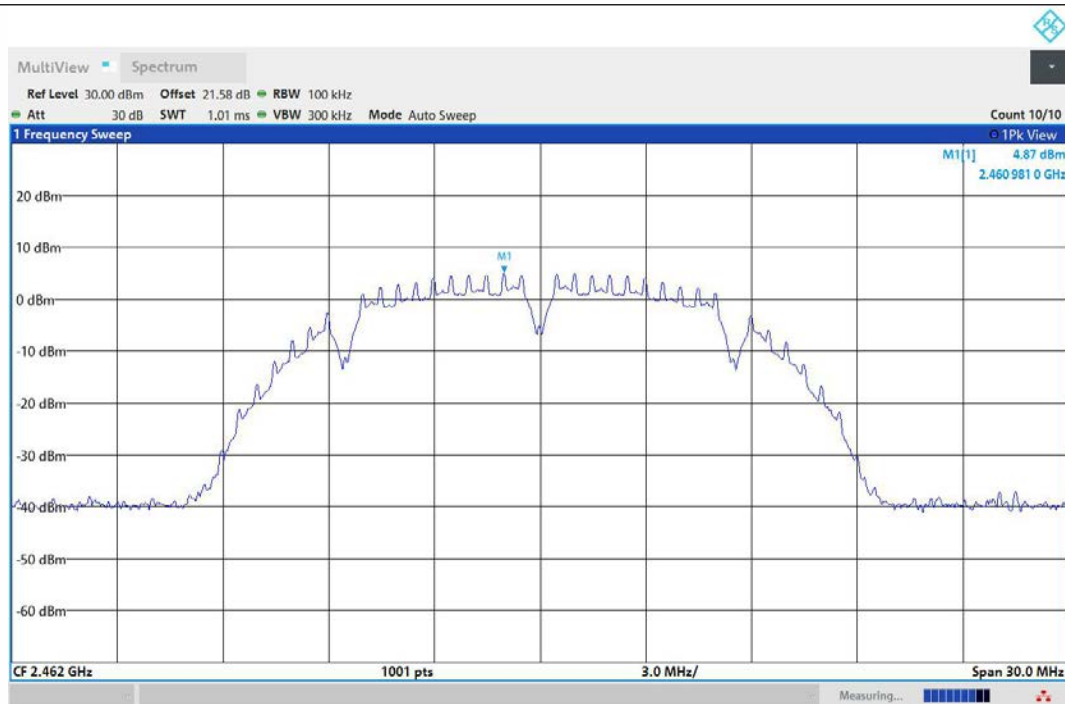
11B-Ant2-2437-30~1000-PASS



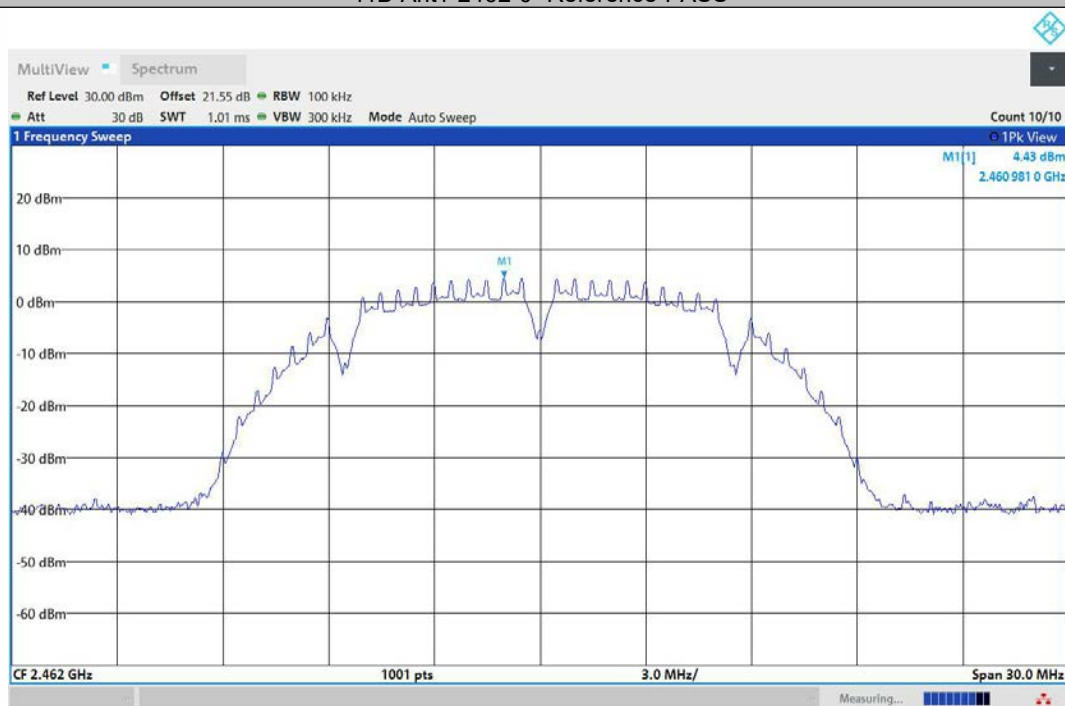
11B-Ant1-2437-1000~26500-PASS



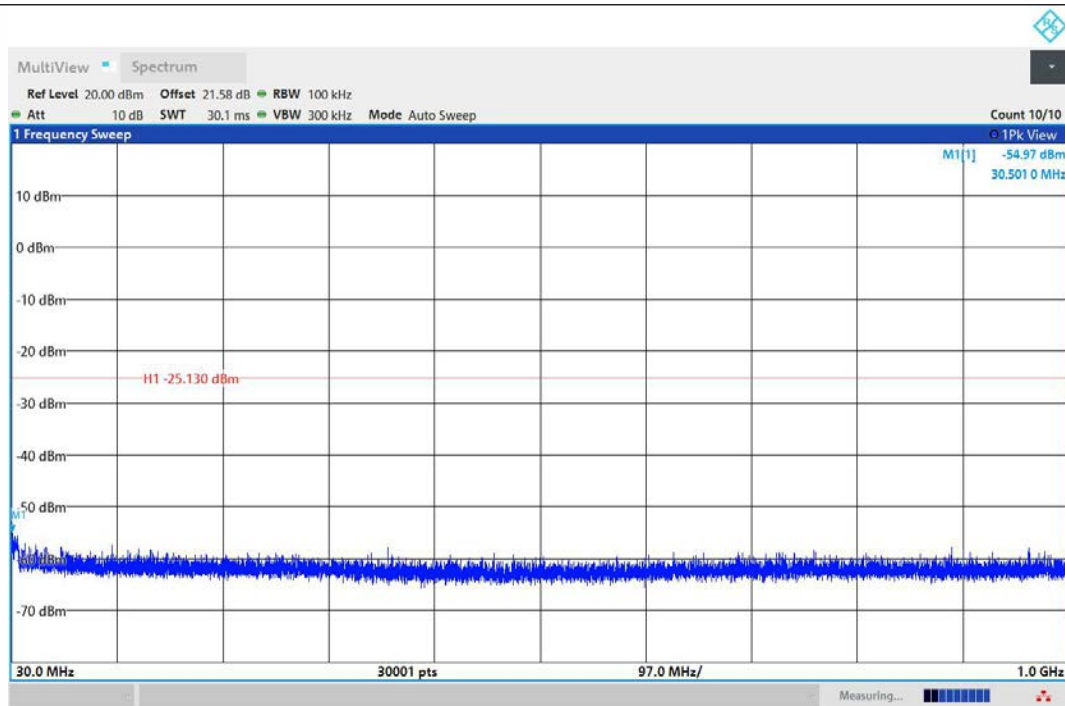
11B-Ant2-2437-1000~26500-PASS



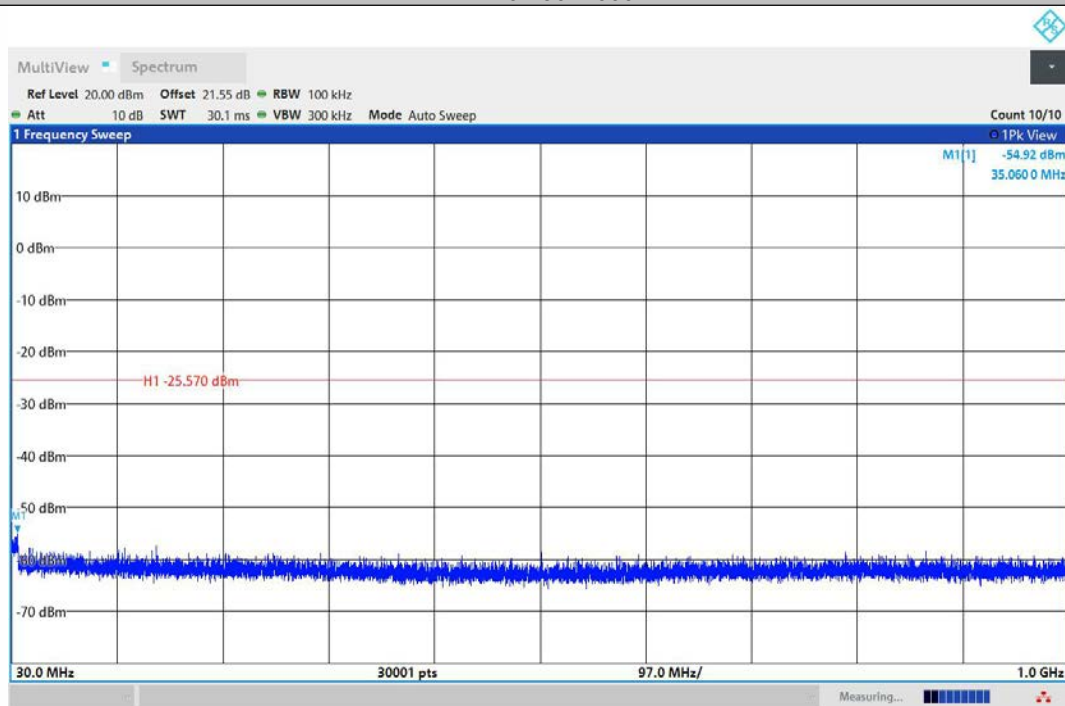
11B-Ant1-2462-0~Reference-PASS



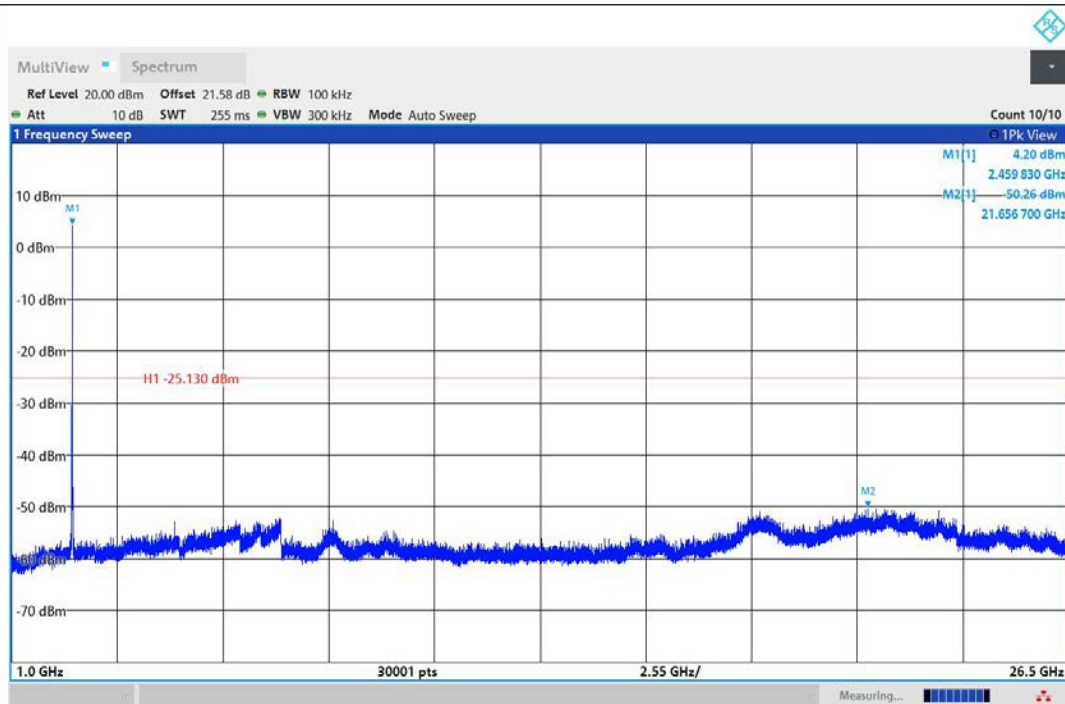
11B-Ant2-2462-0~Reference-PASS



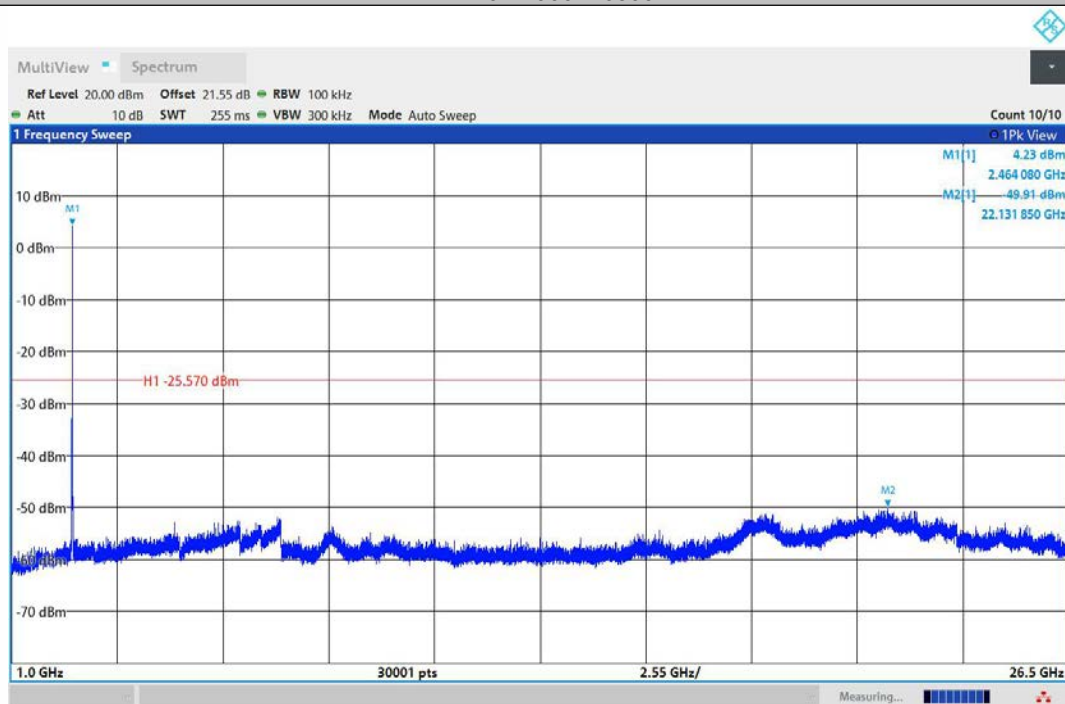
11B-Ant1-2462-30~1000-PASS



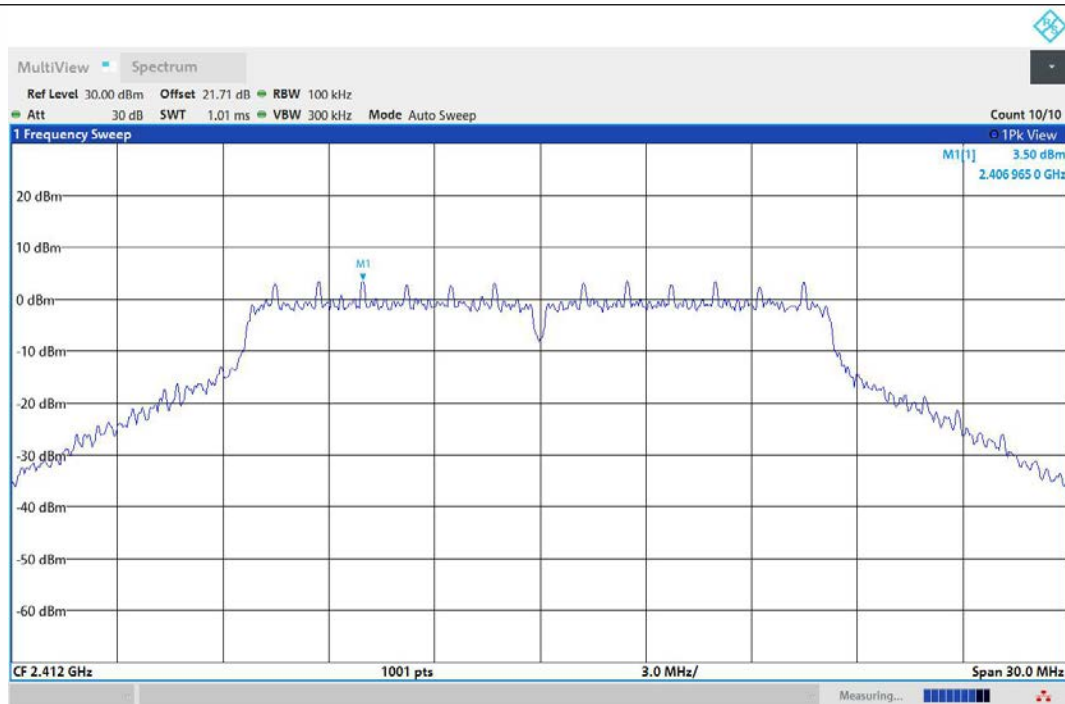
11B-Ant2-2462-30~1000-PASS



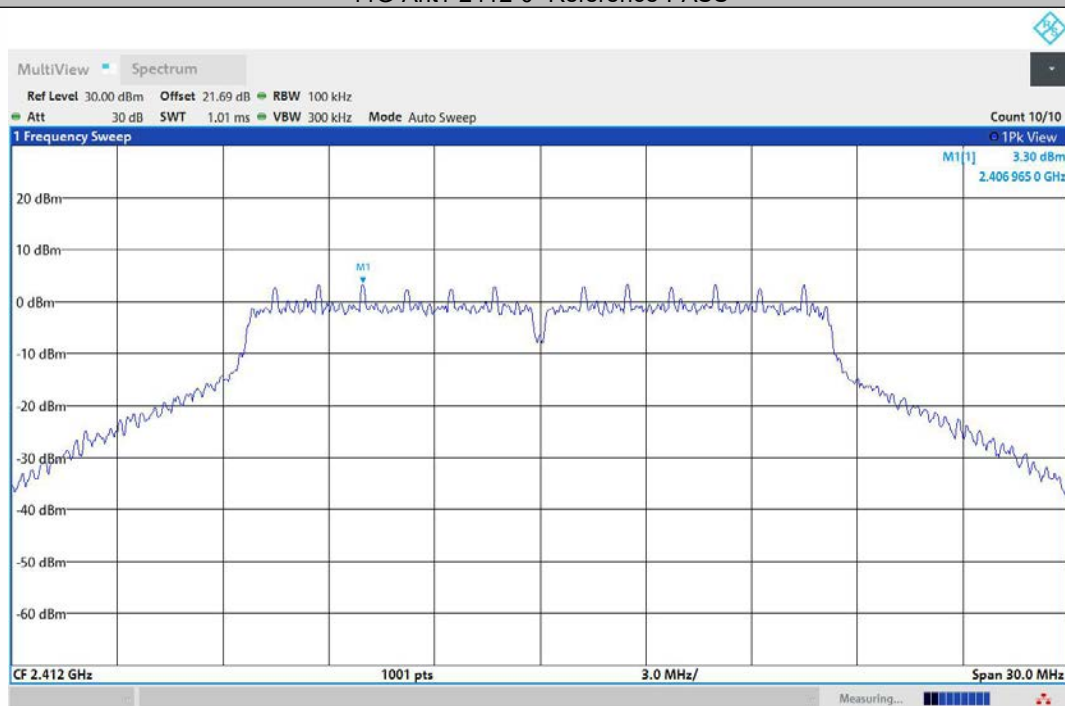
11B-Ant1-2462-1000~26500-PASS



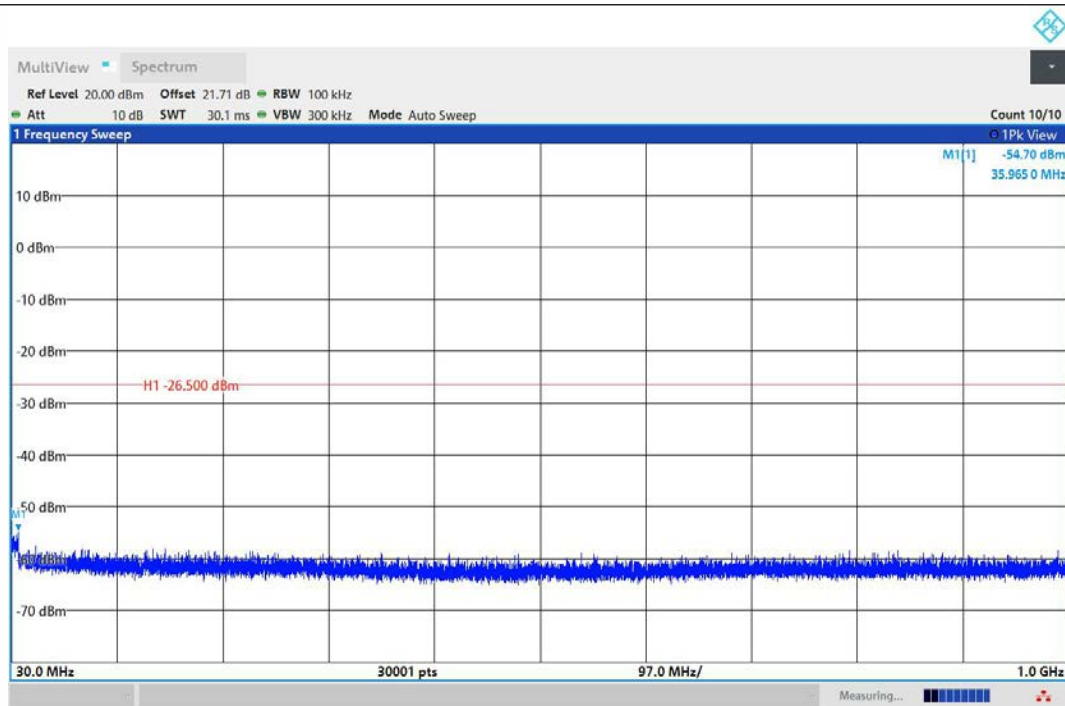
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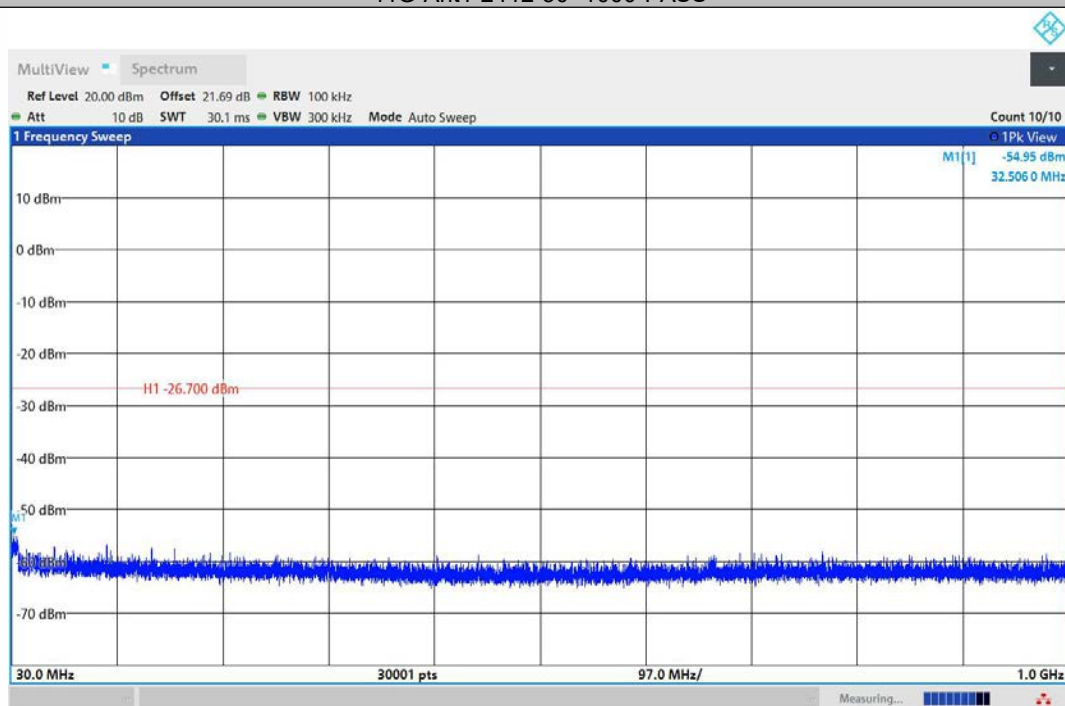
11G-Ant1-2412-0~Reference-PASS



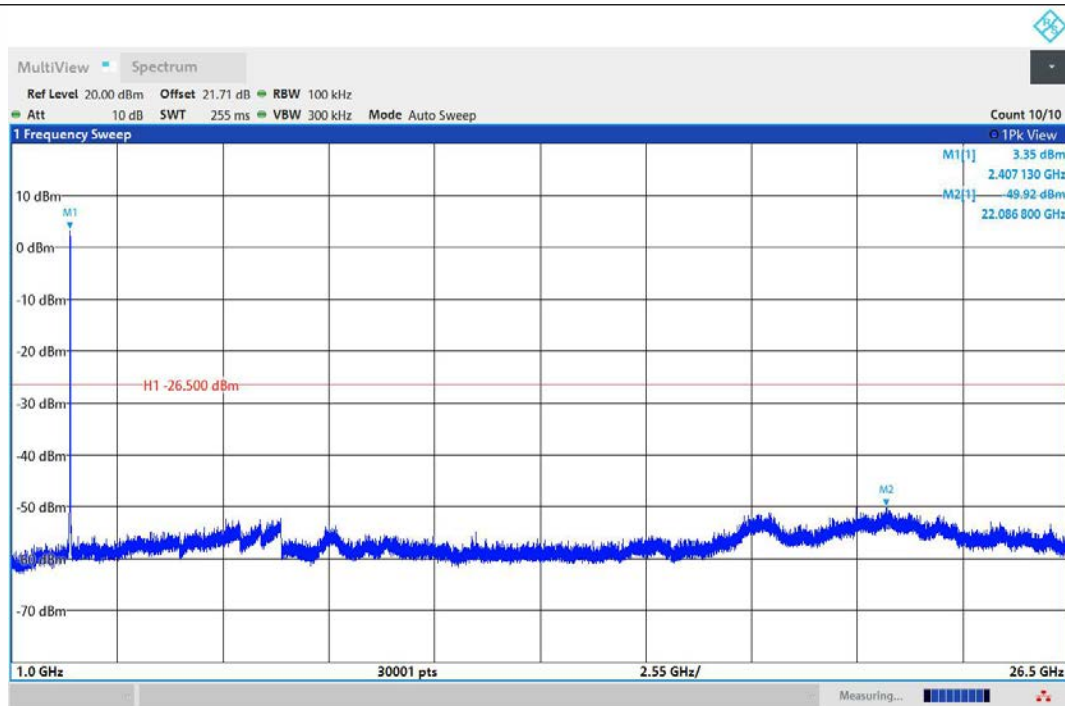
11G-Ant2-2412-0~Reference-PASS



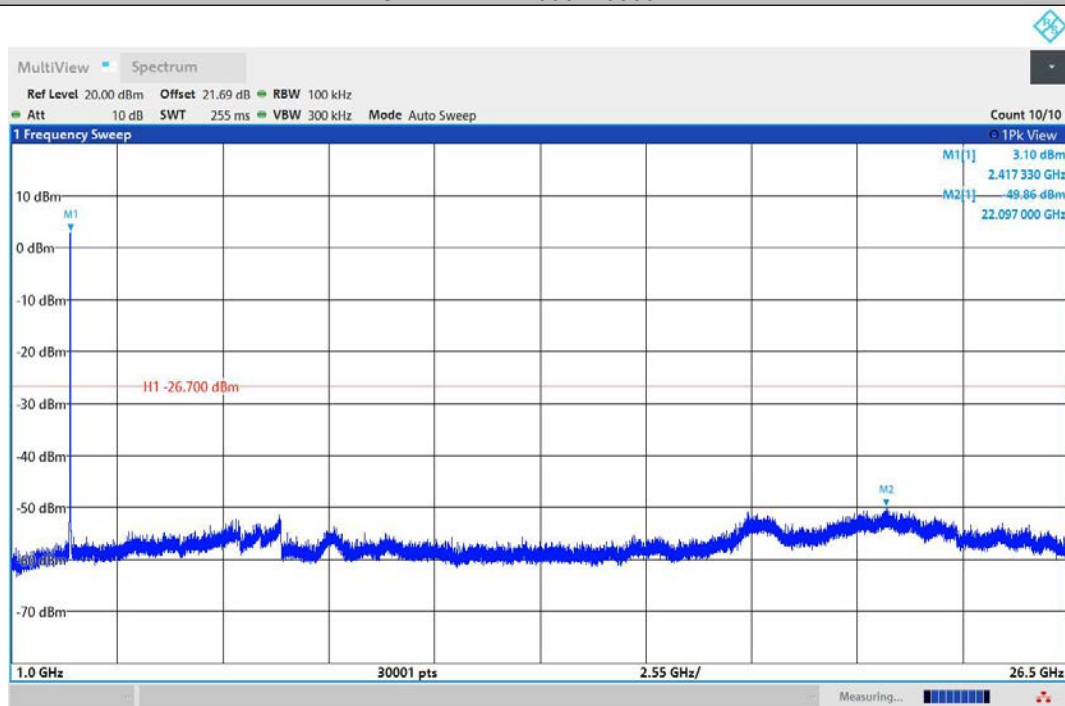
11G-Ant1-2412-30~1000-PASS



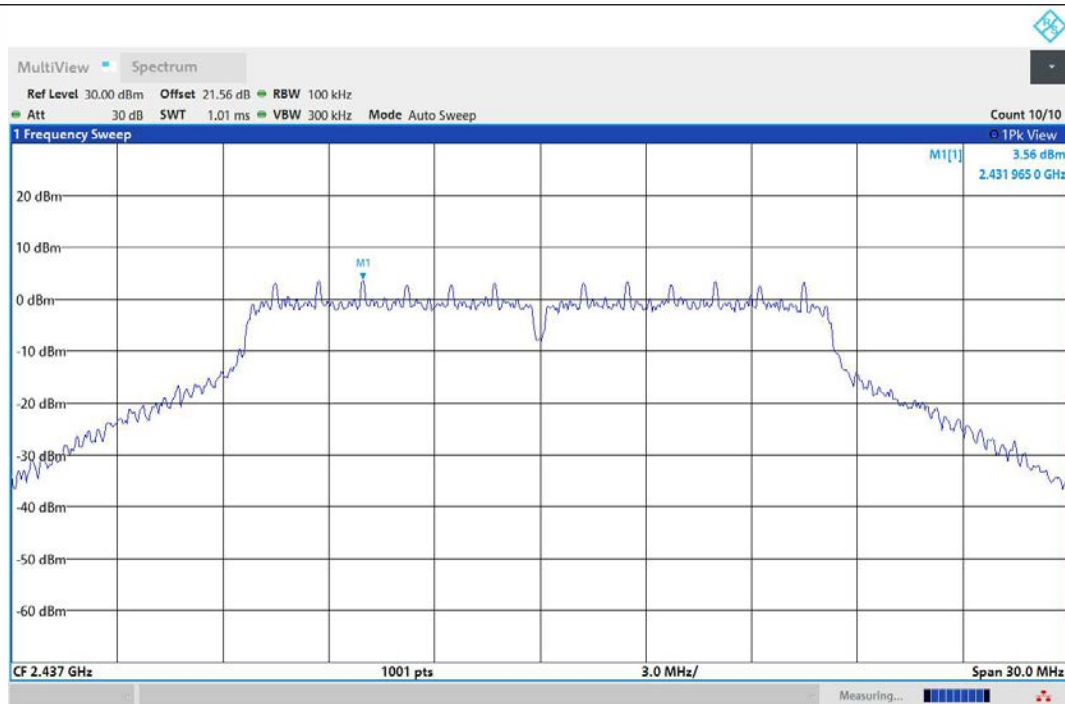
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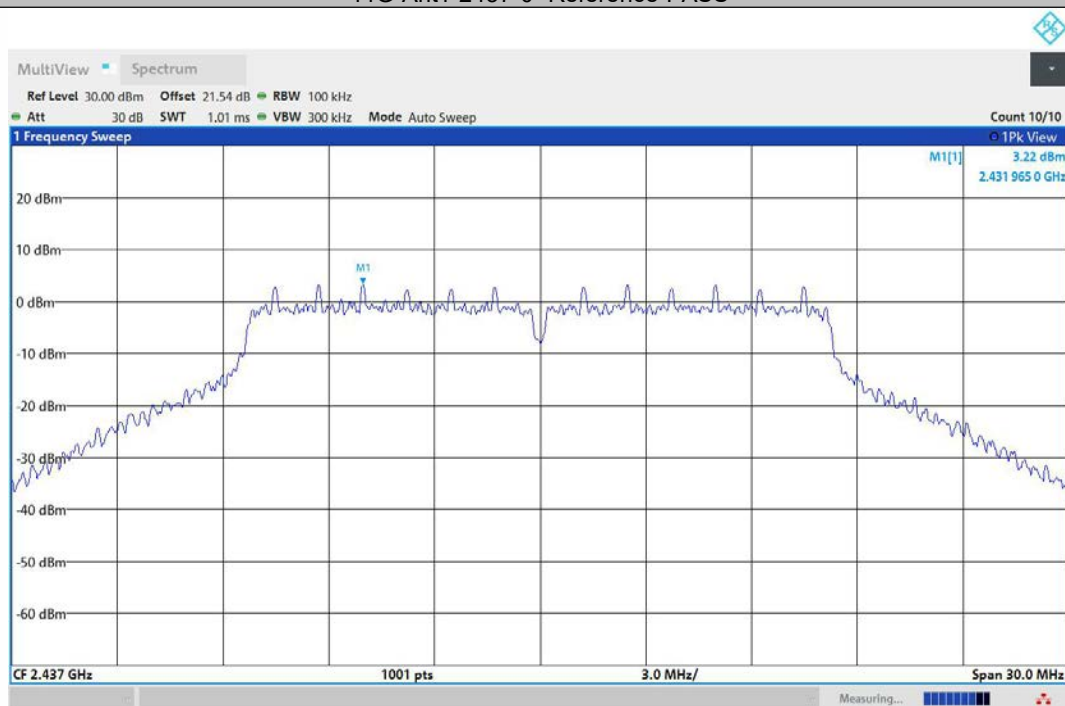
11G-Ant1-2412-1000~26500-PASS



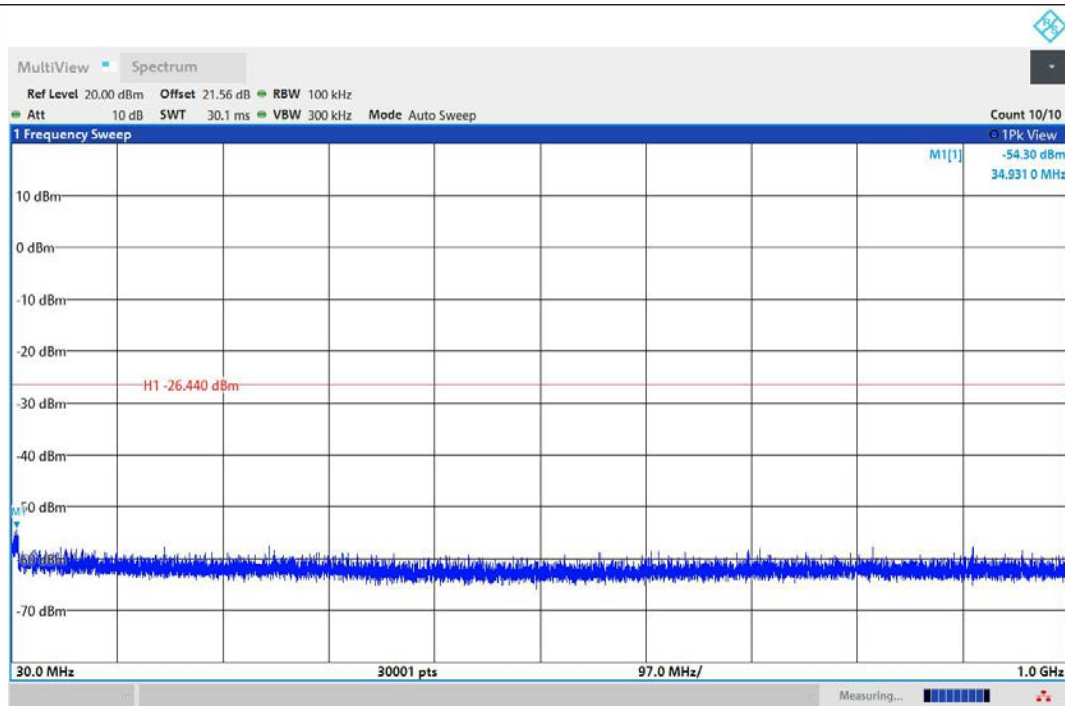
11G-Ant2-2412-1000~26500-PASS



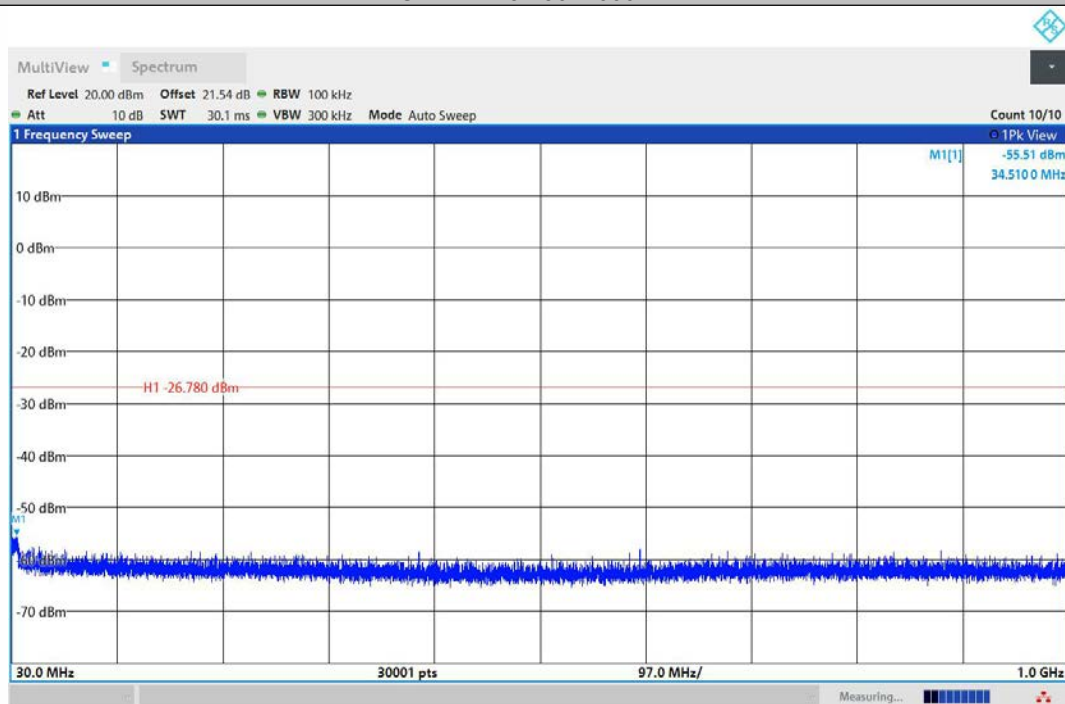
11G-Ant1-2437-0~Reference-PASS



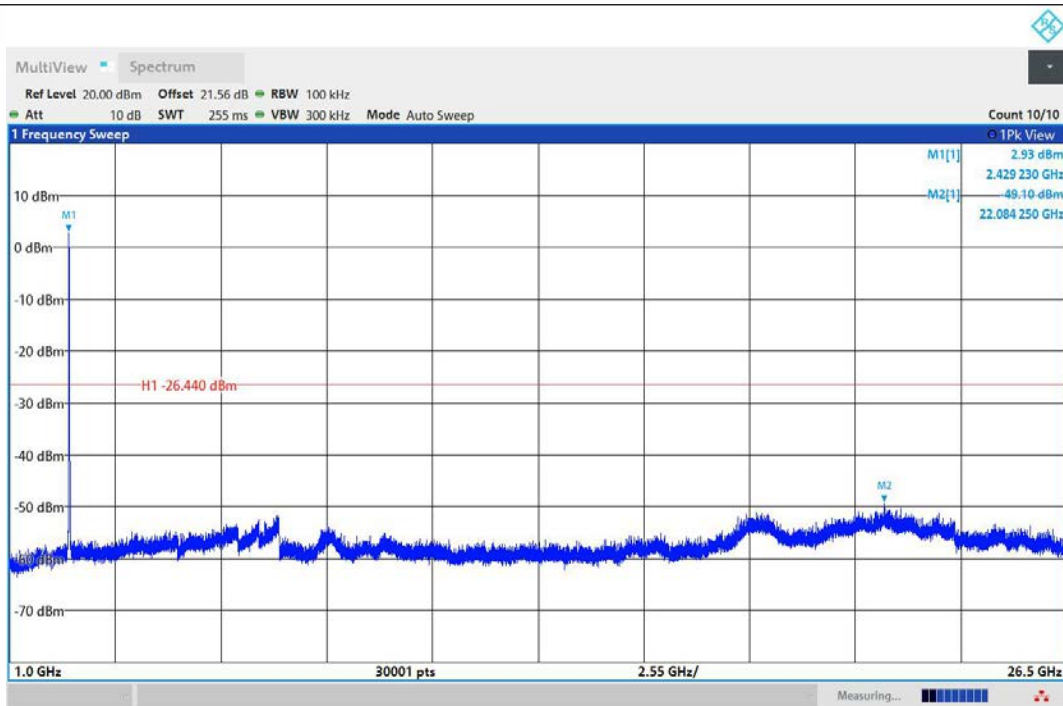
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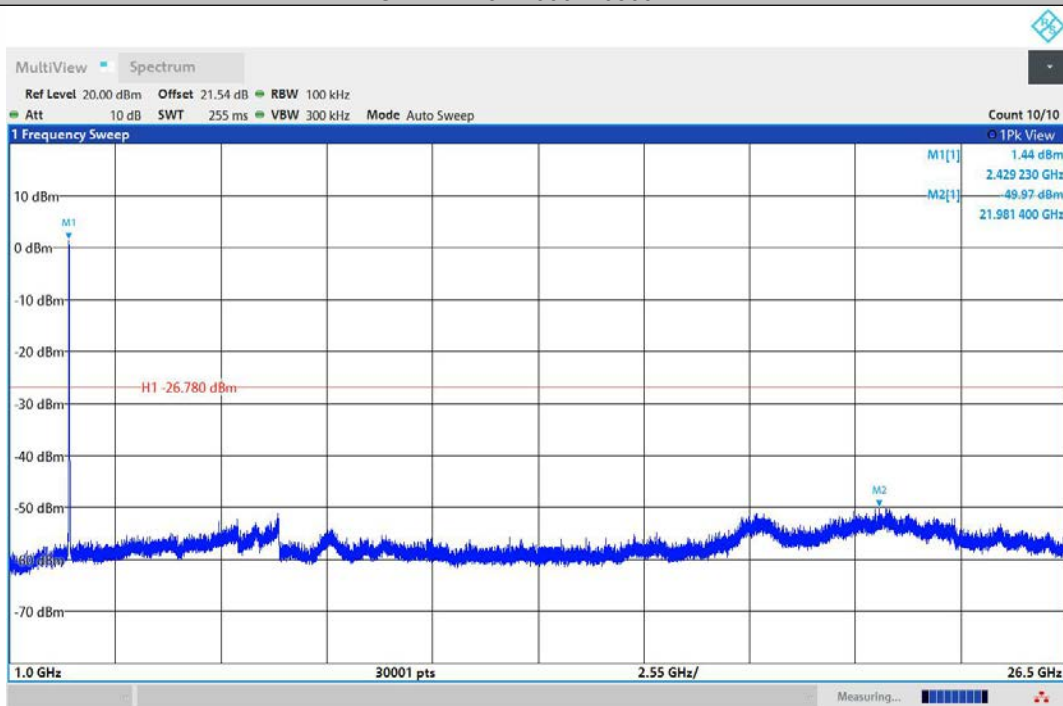
11G-Ant1-2437-30~1000-PASS



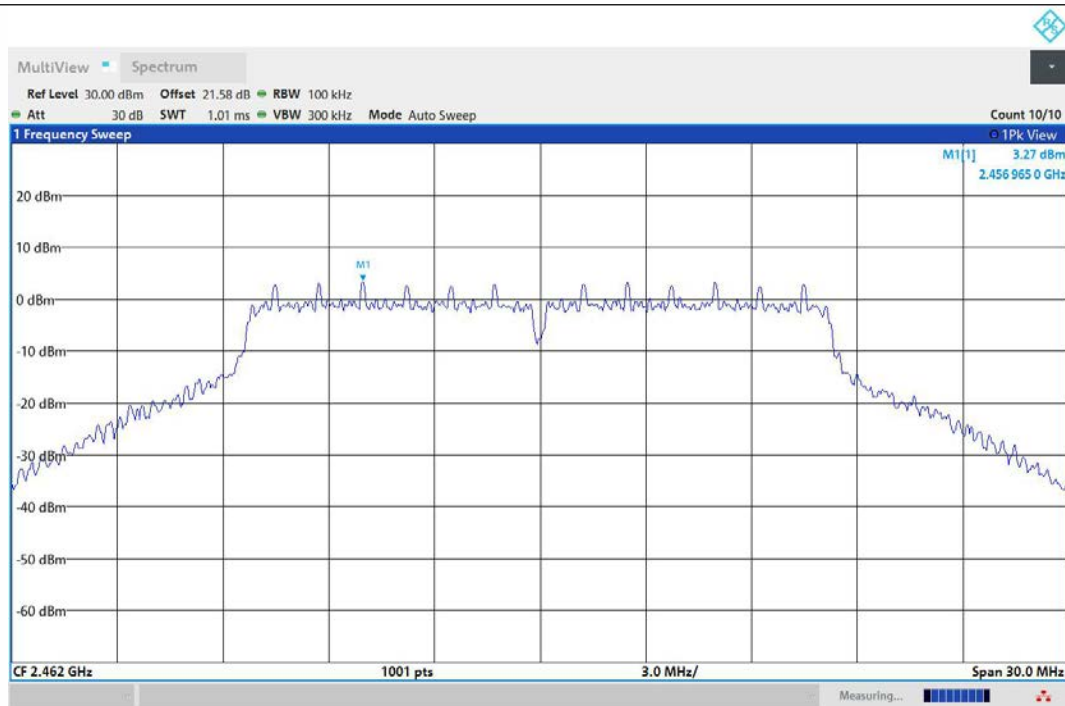
11G-Ant2-2437-30~1000-PASS



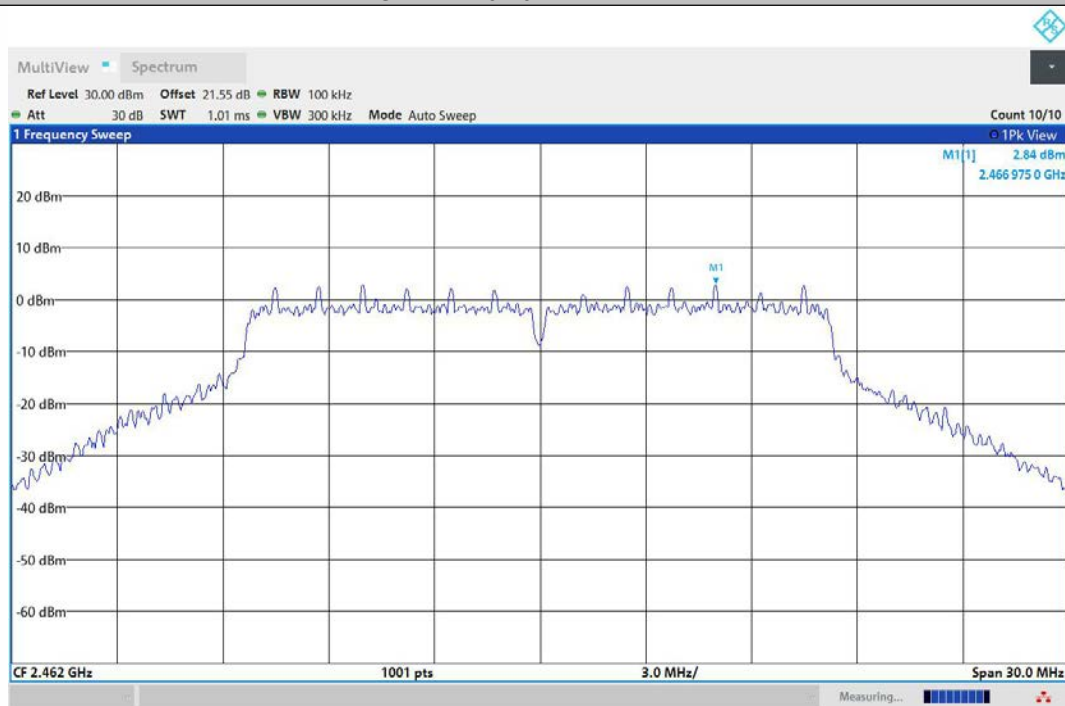
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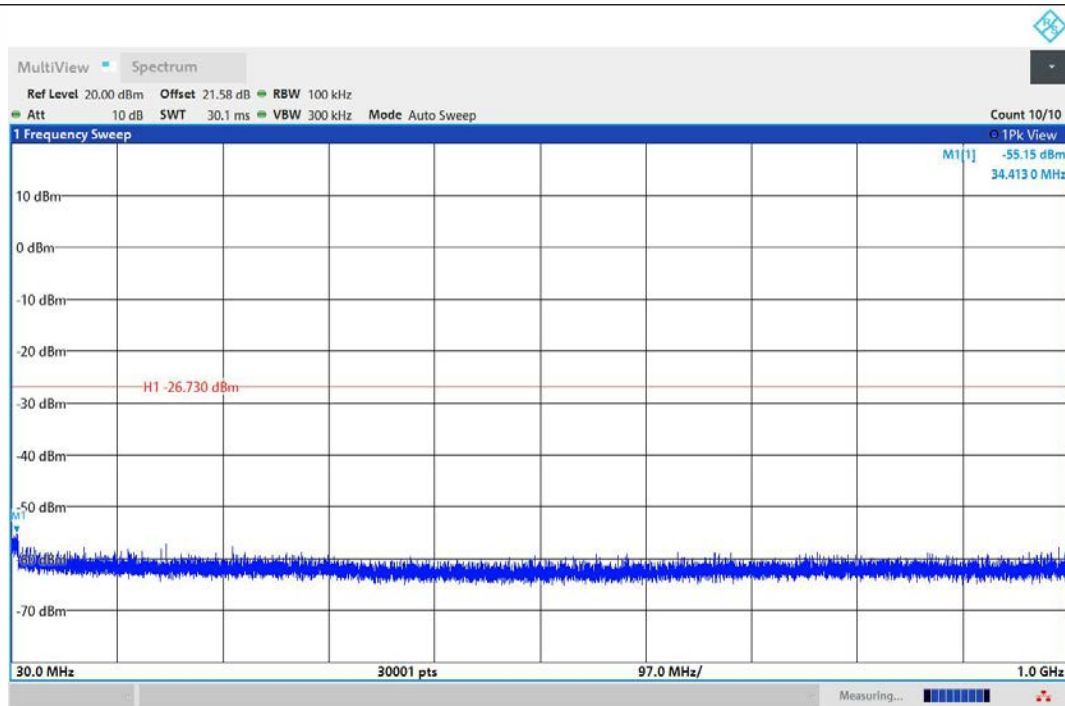
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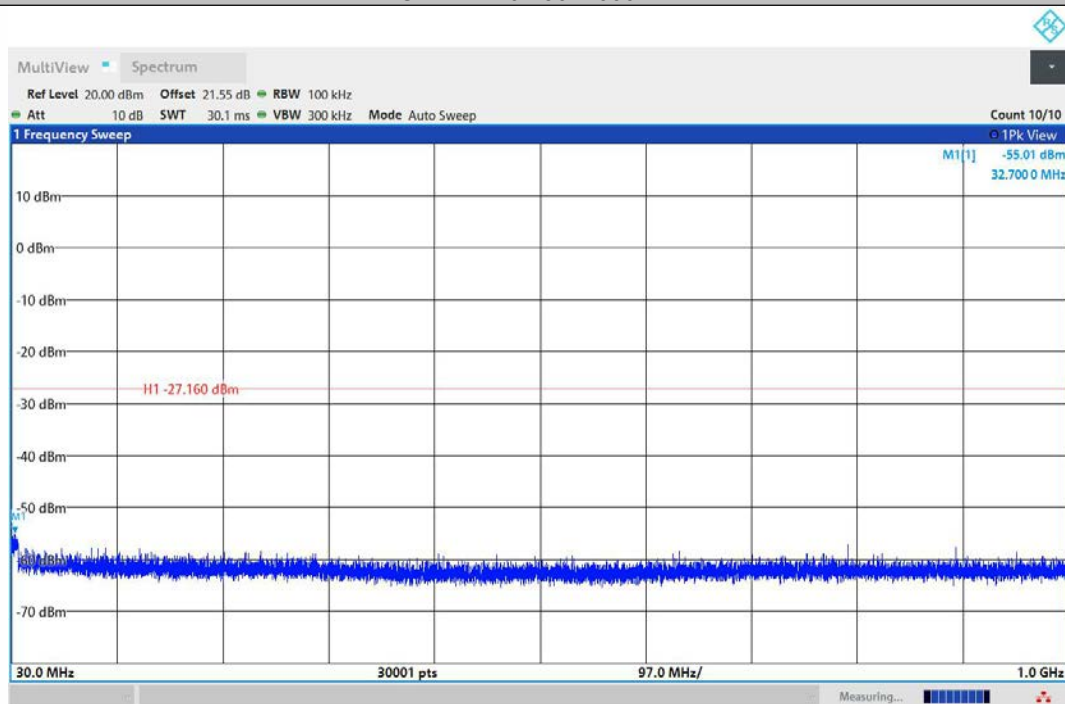
11G-Ant1-2462-0~Reference-PASS



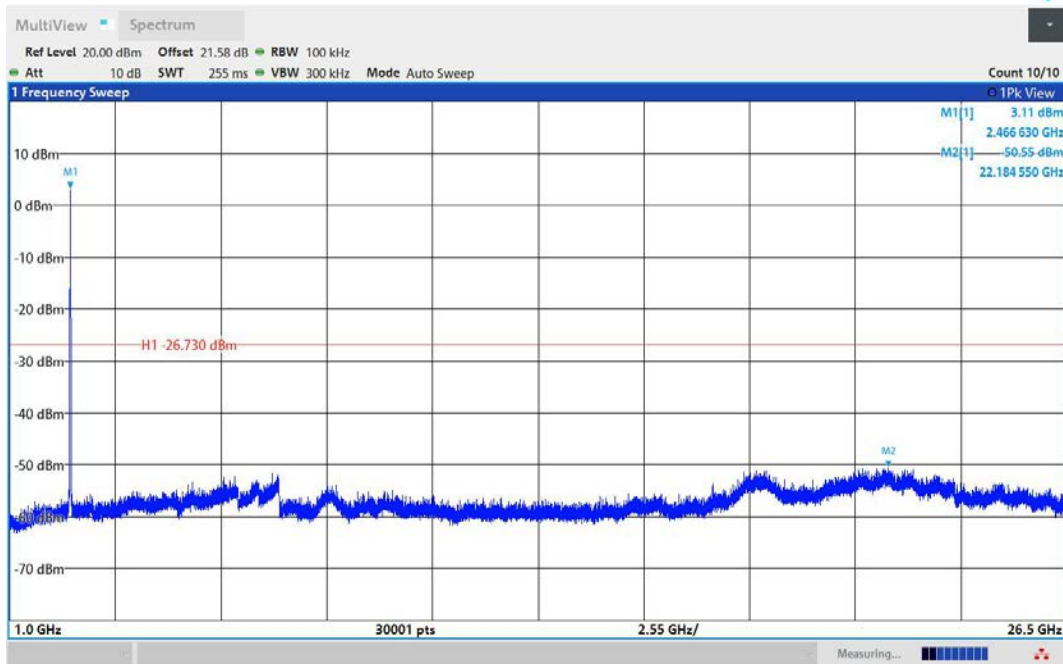
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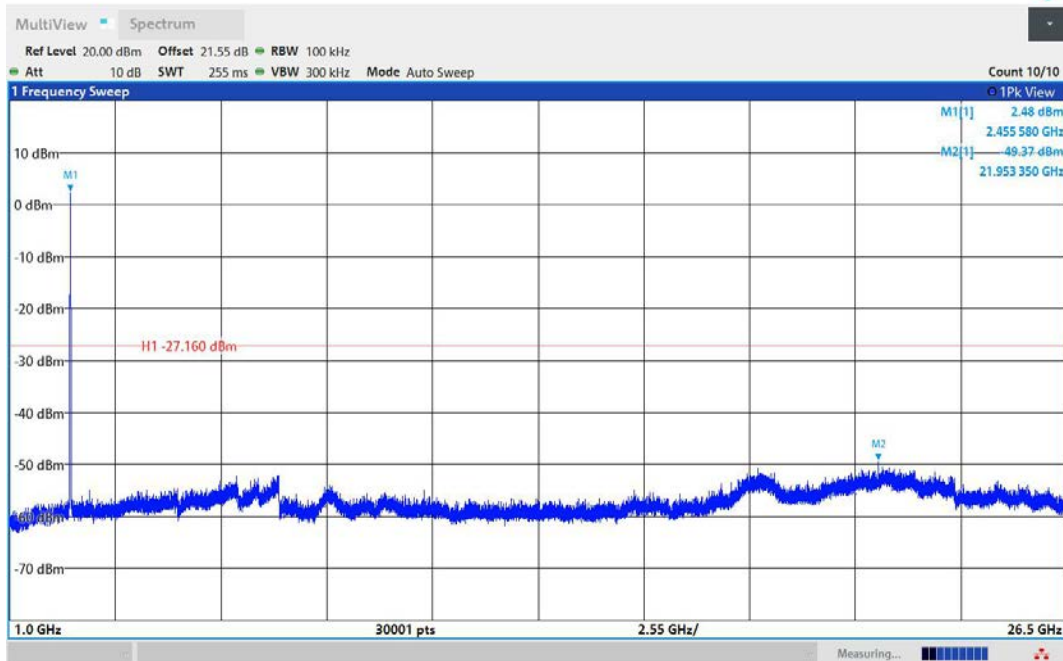
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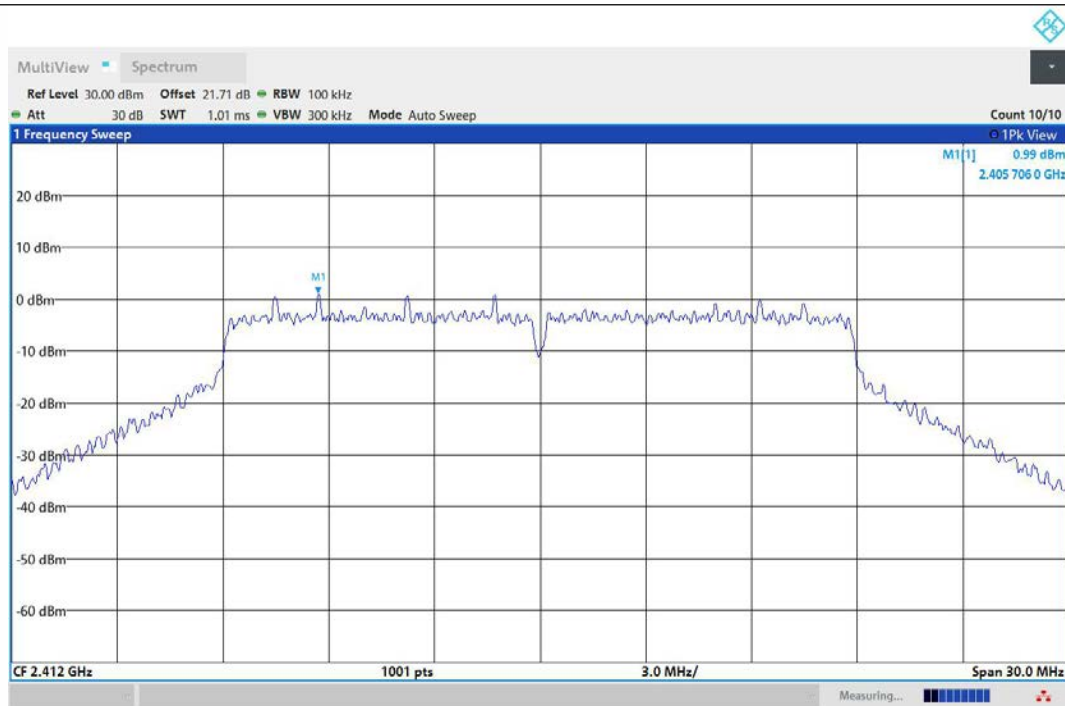
11G-Ant2-2462-30~1000-PASS



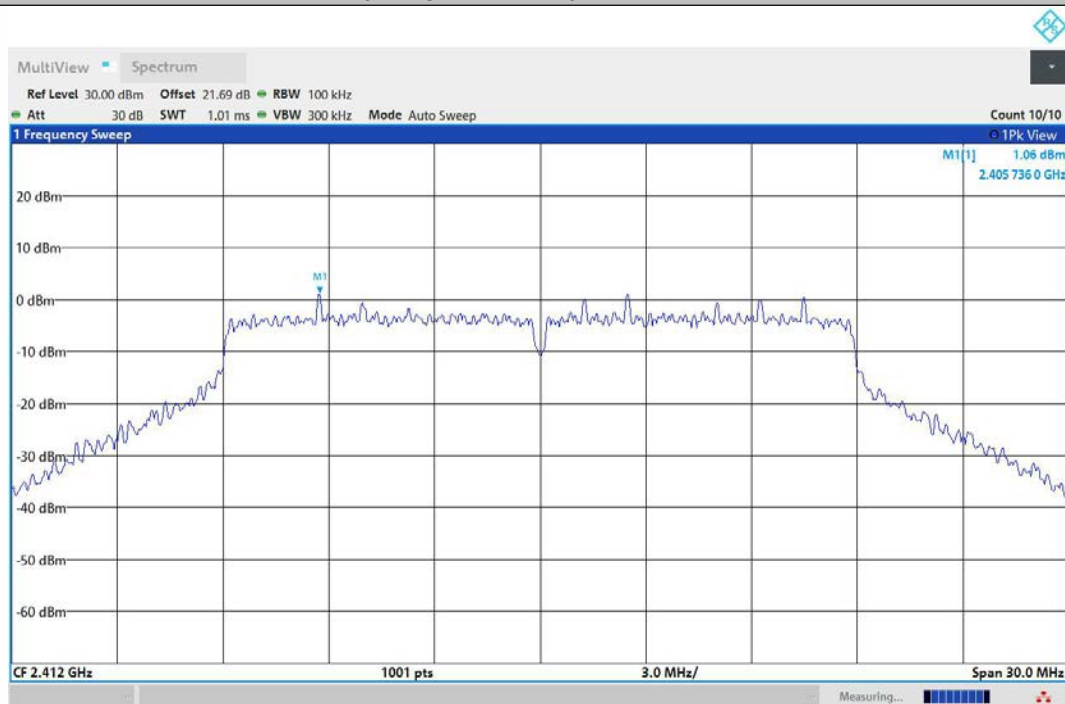
11G-Ant1-2462-1000~26500-PASS



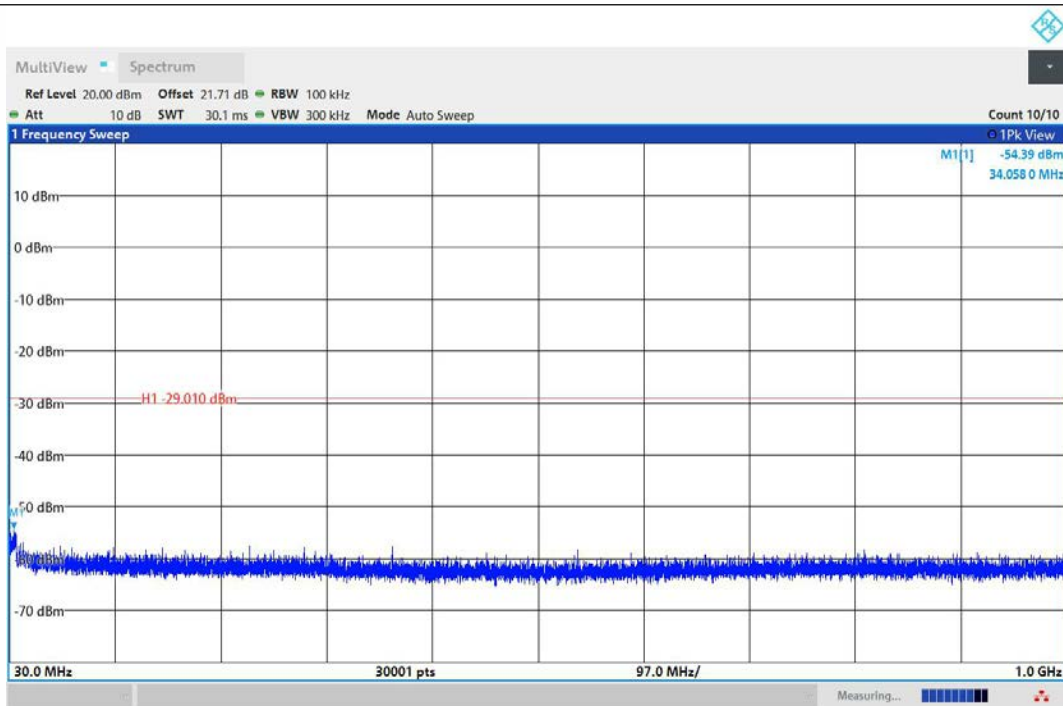
11G-Ant2-2462-1000~26500-PASS



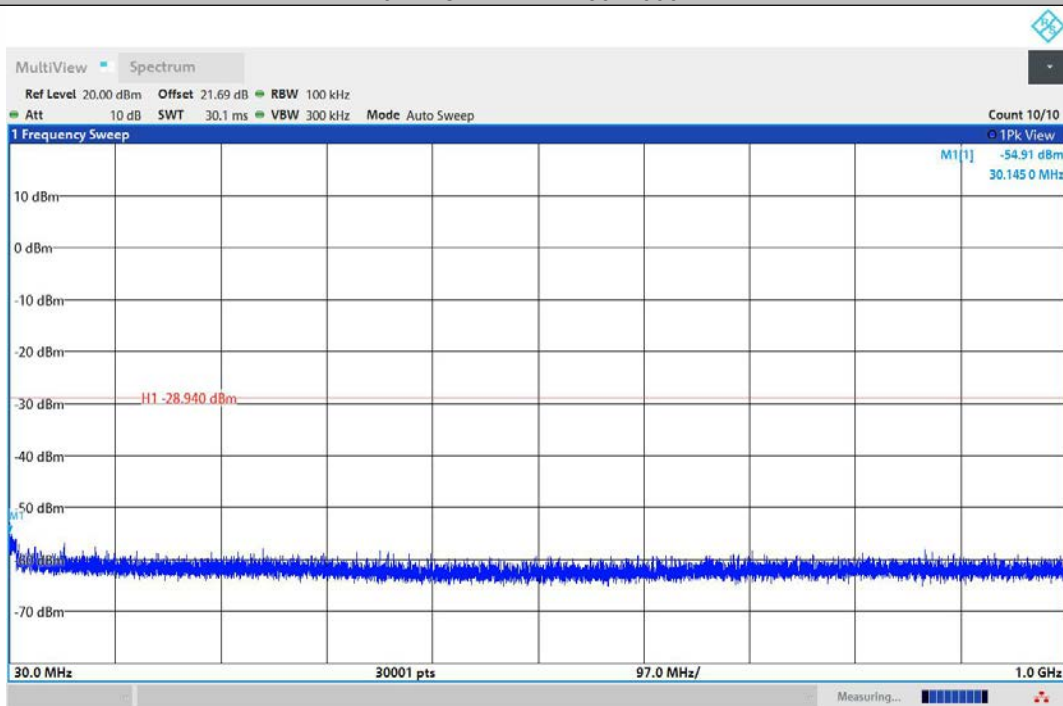
11N20MIMO-Ant1-2412-0~Reference-PASS



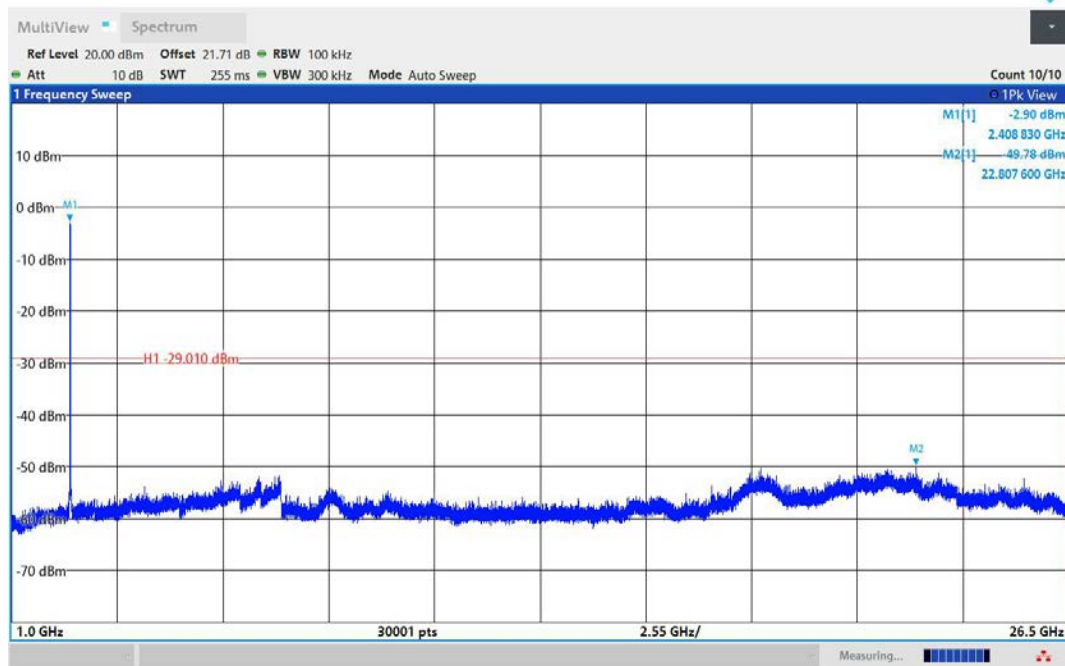
11N20MIMO-Ant2-2412-0~Reference-PASS



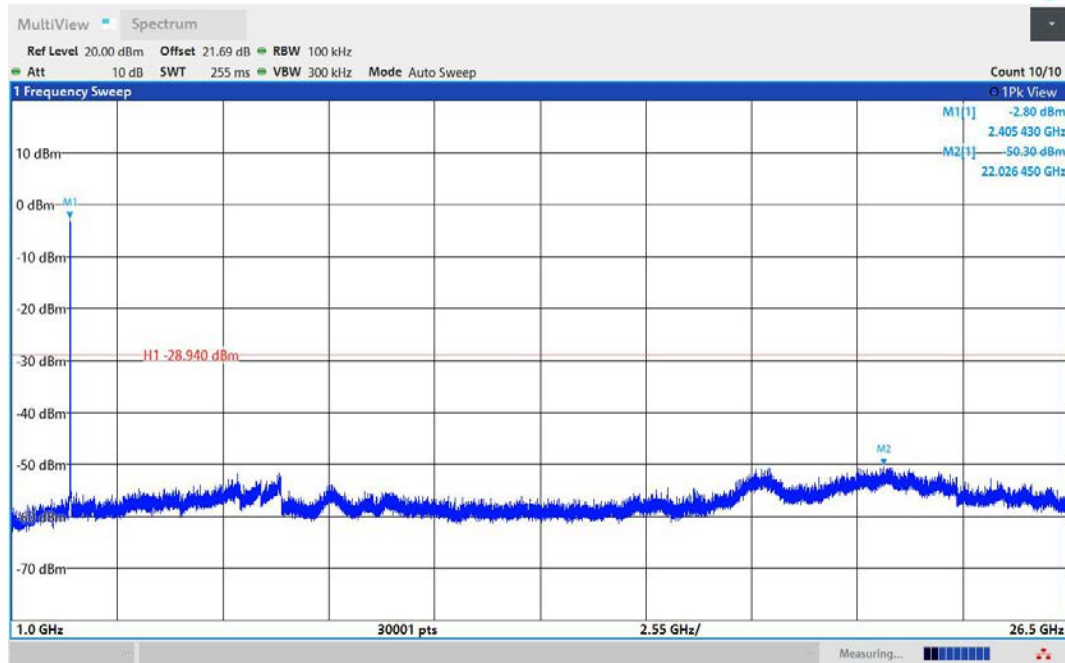
11N20MIMO-Ant1-2412-30~1000-PASS



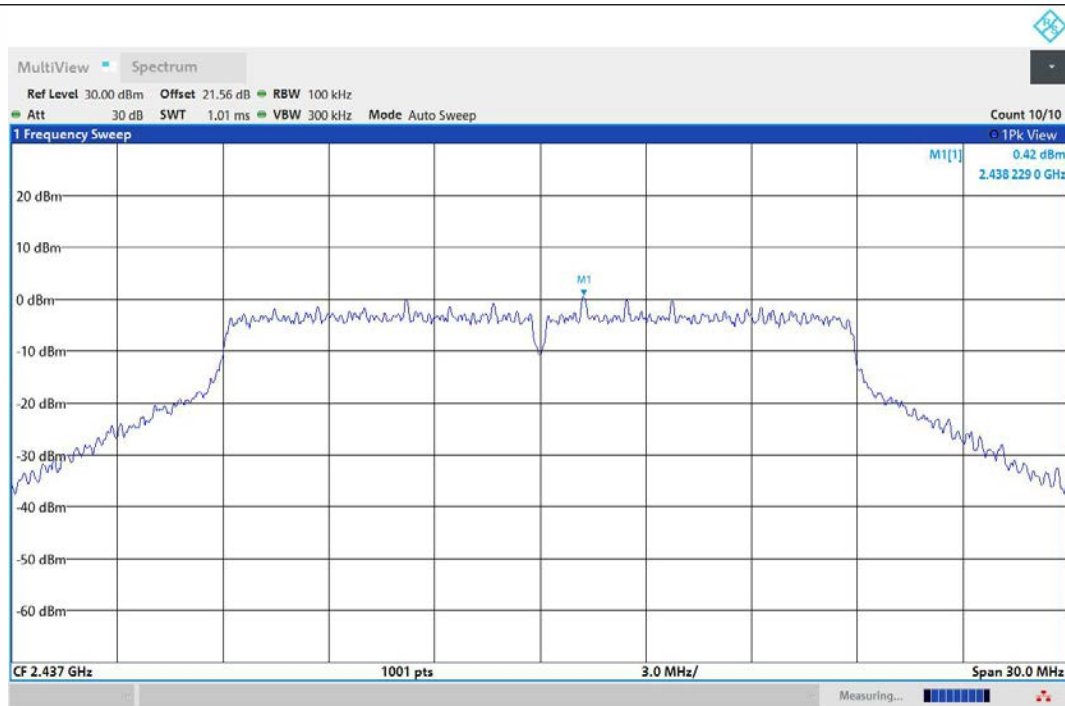
11N20MIMO-Ant2-2412-30~1000-PASS



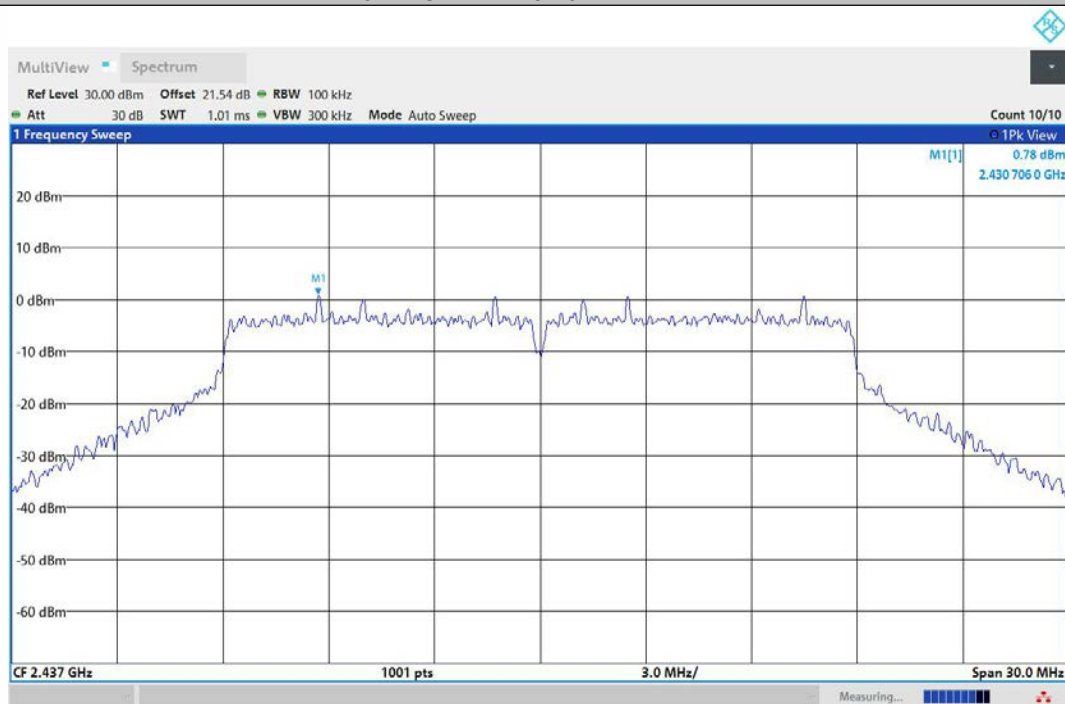
11N20MIMO-Ant1-2412-1000~26500-PASS



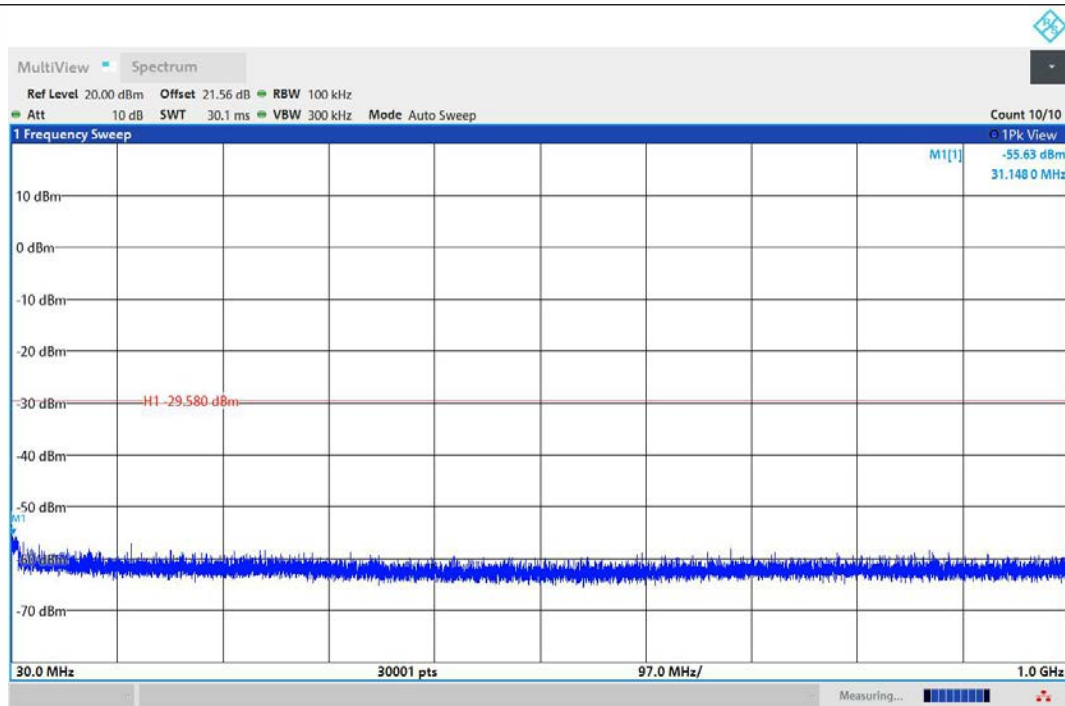
11N20MIMO-Ant2-2412-1000~26500-PASS



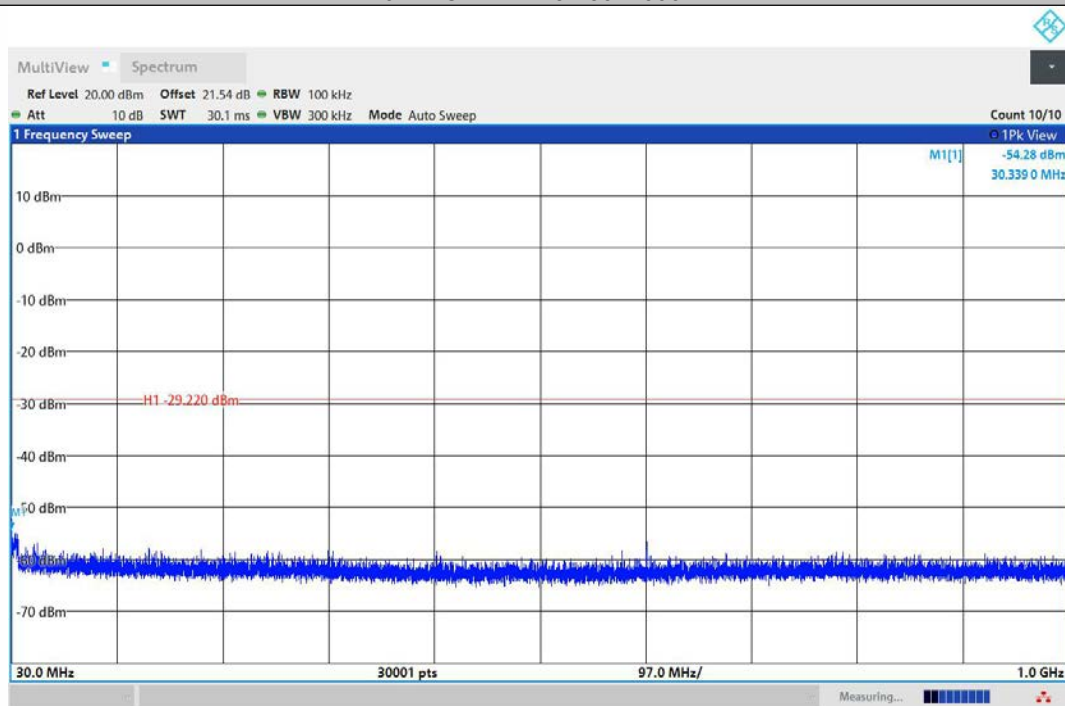
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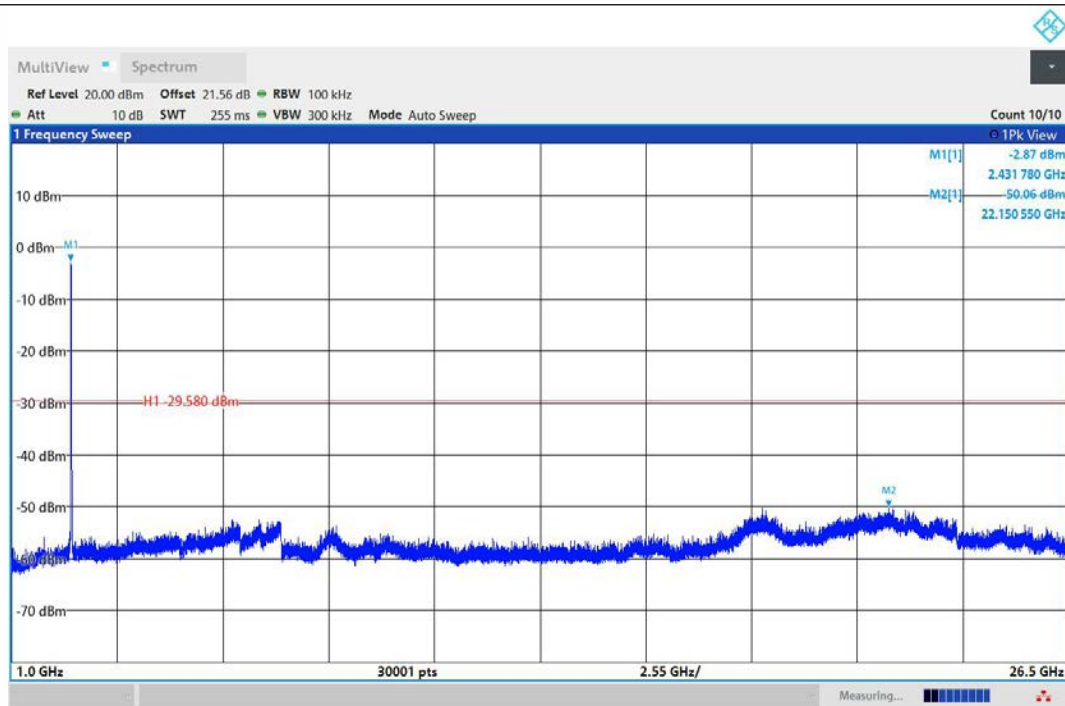
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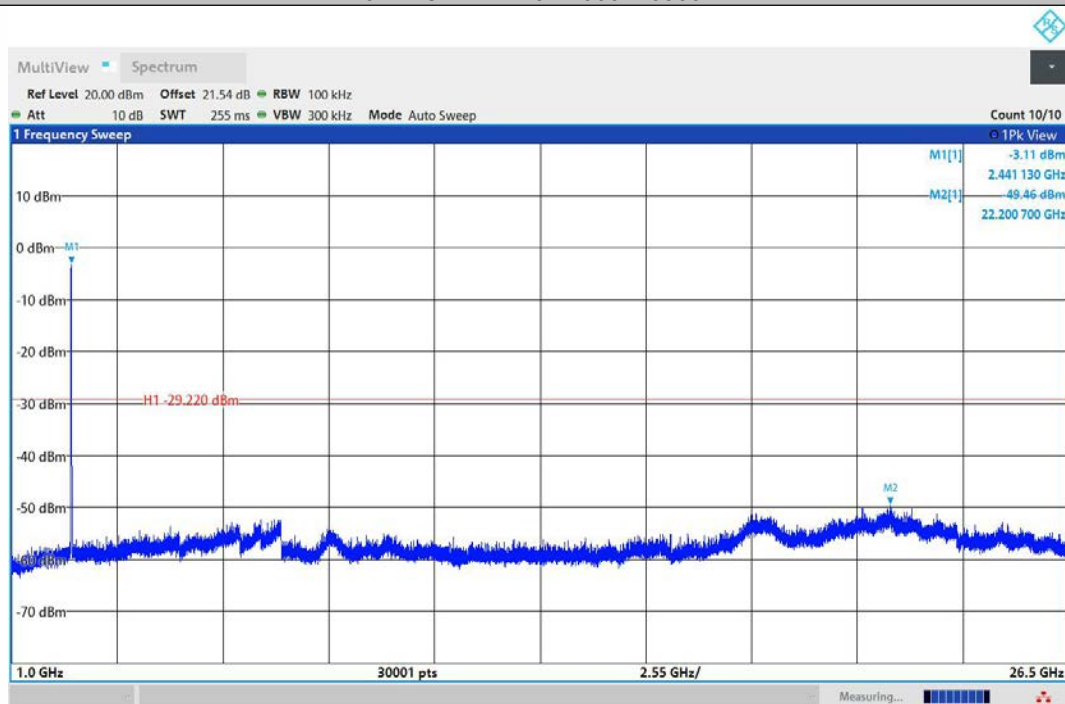
11N20MIMO-Ant1-2437-30~1000-PASS



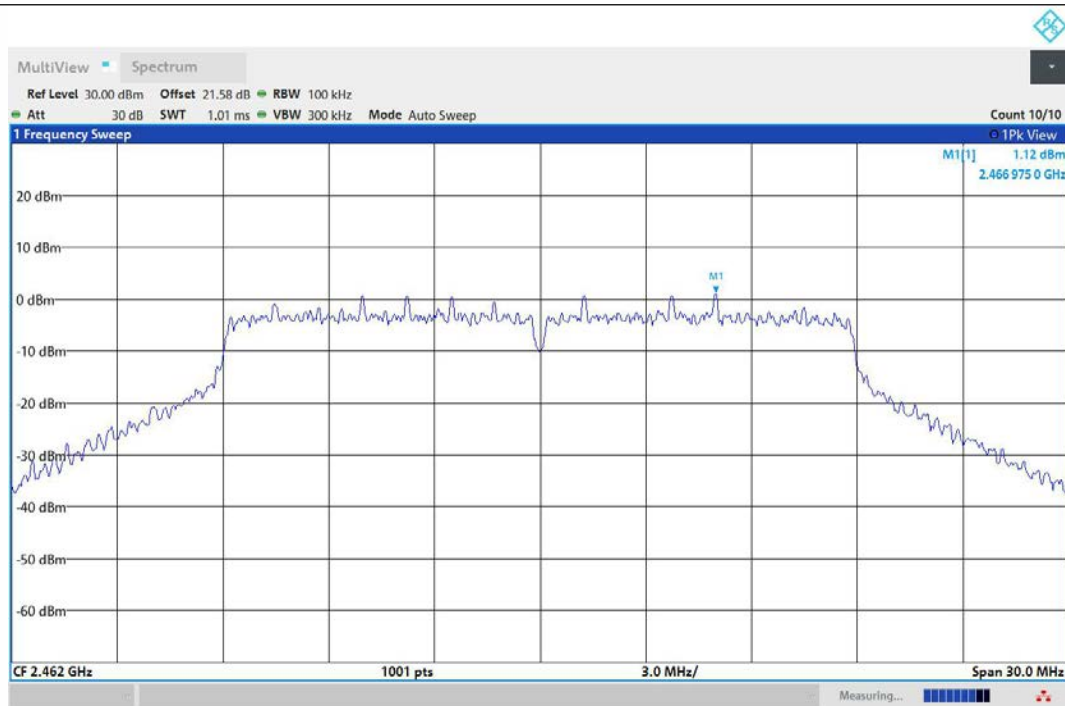
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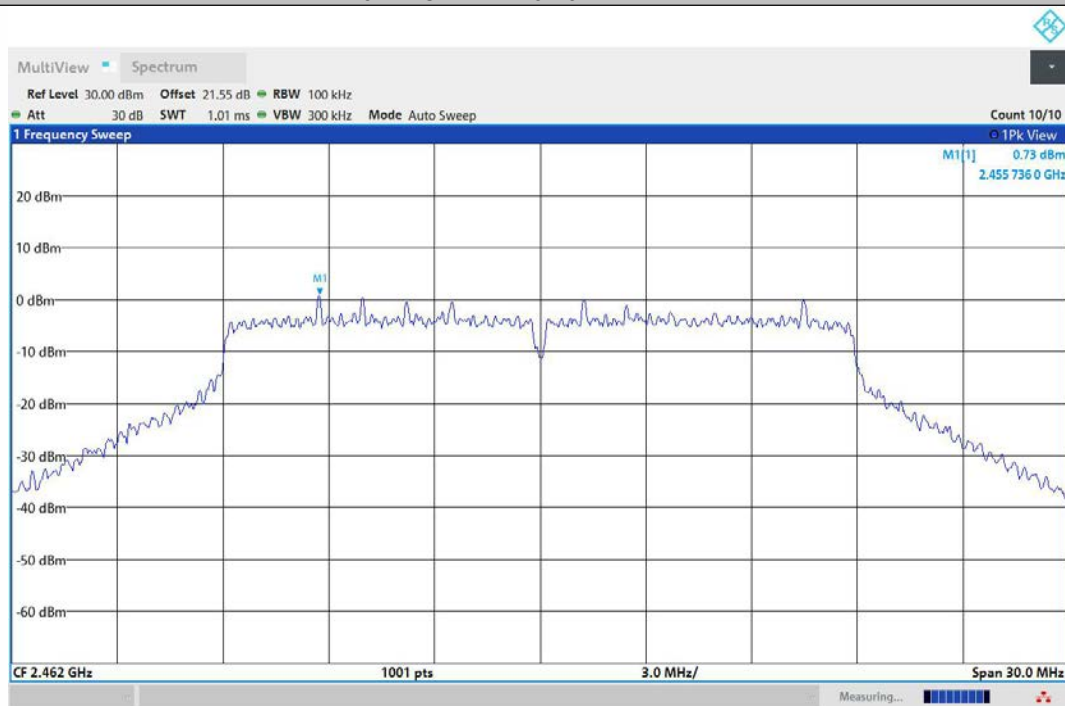
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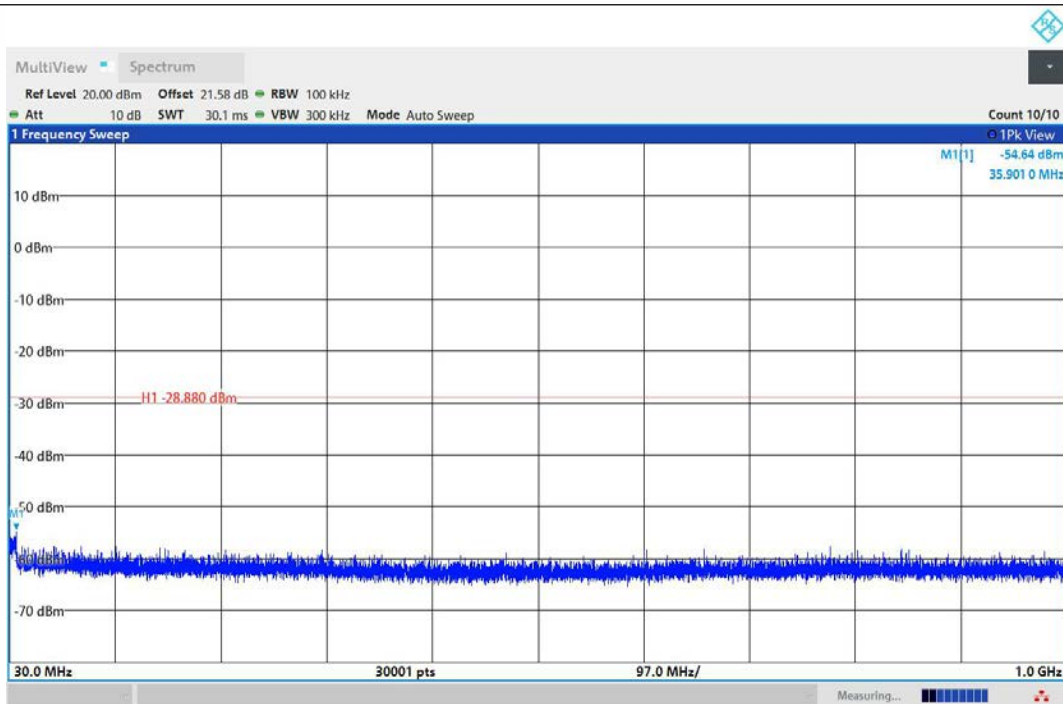
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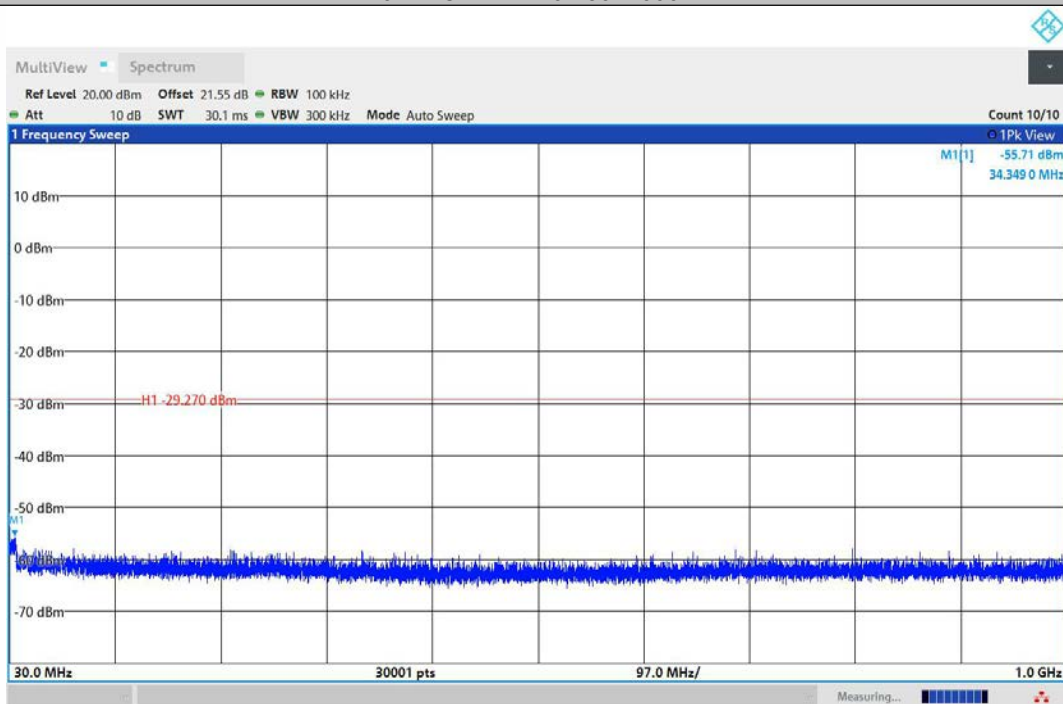
11N20MIMO-Ant1-2462-0~Reference-PASS



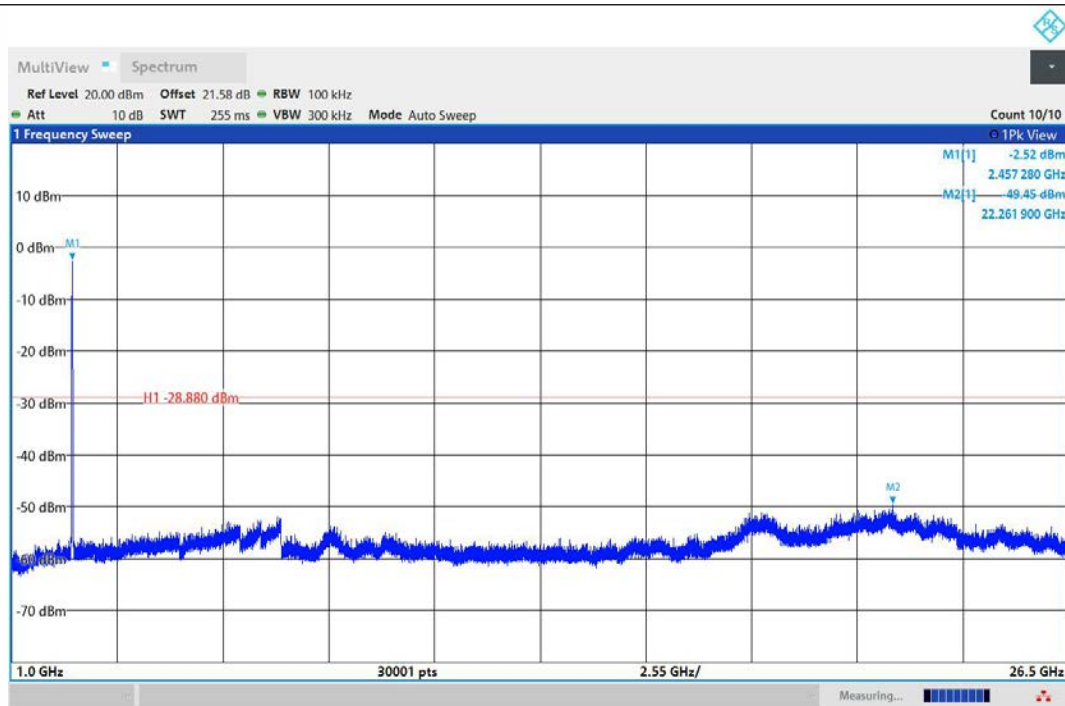
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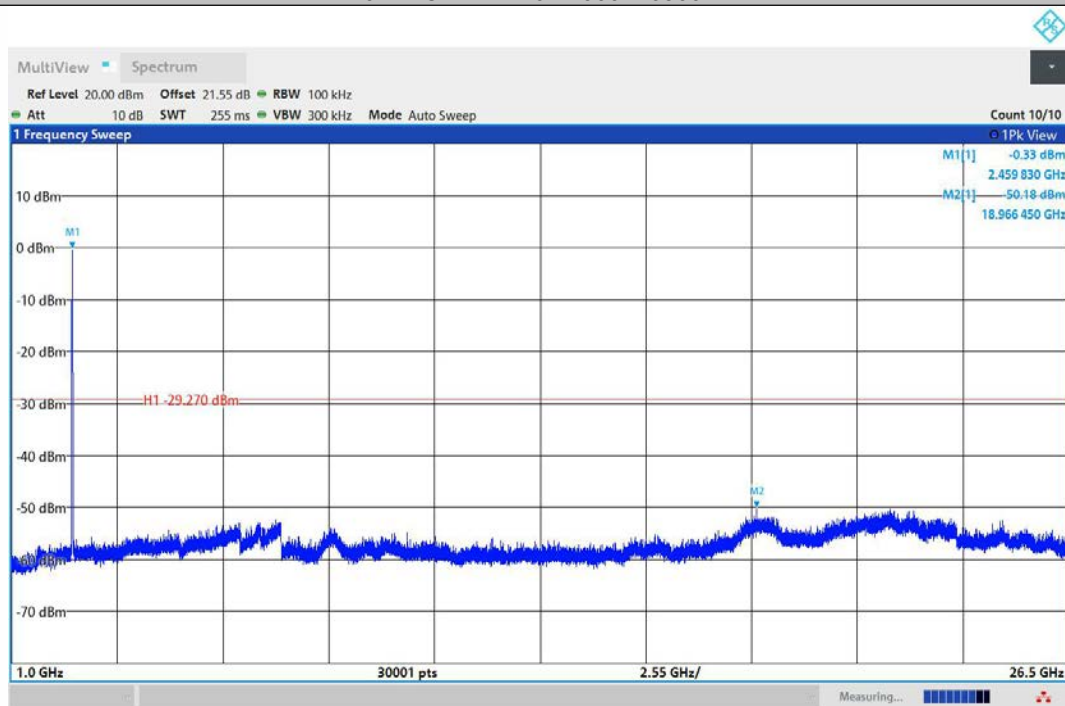
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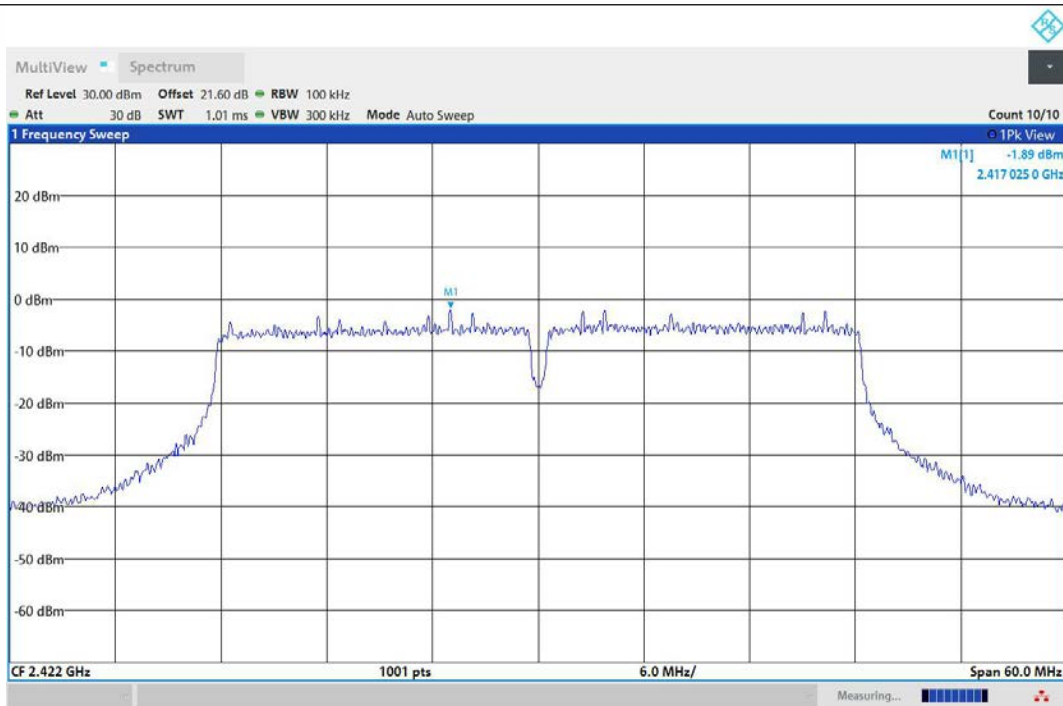
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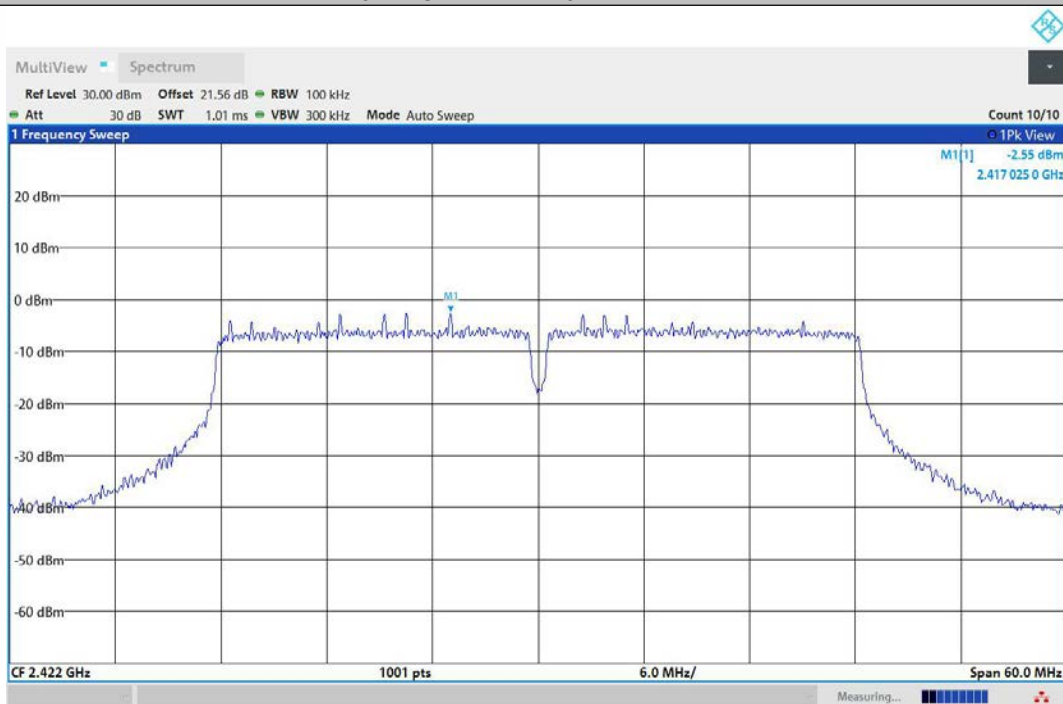
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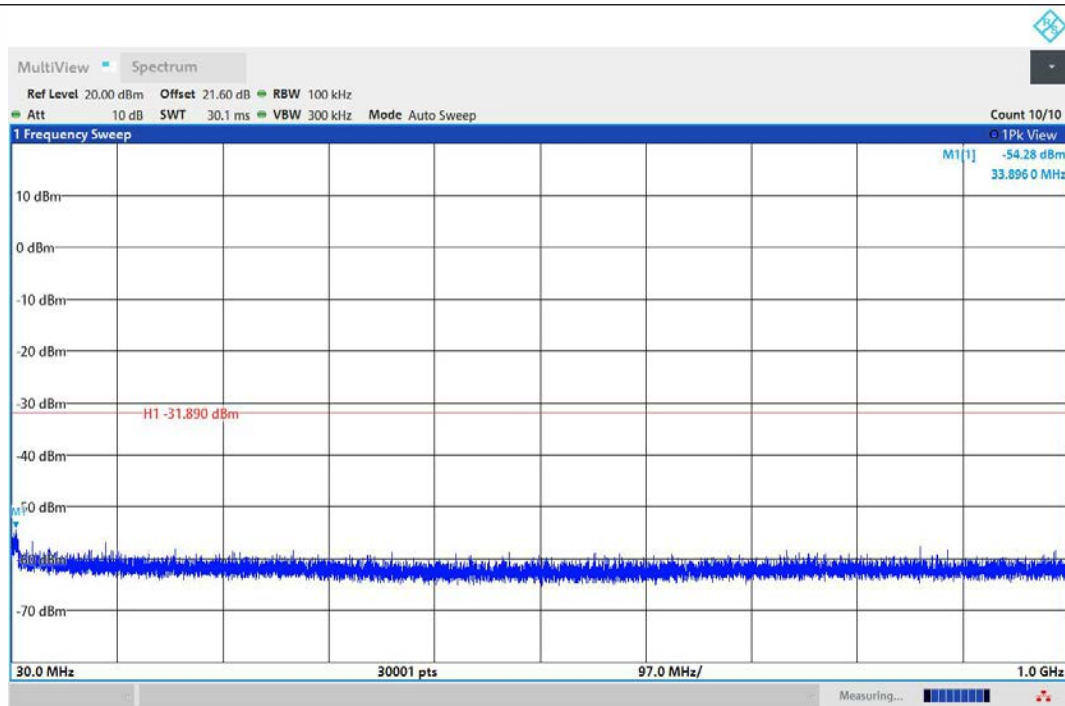
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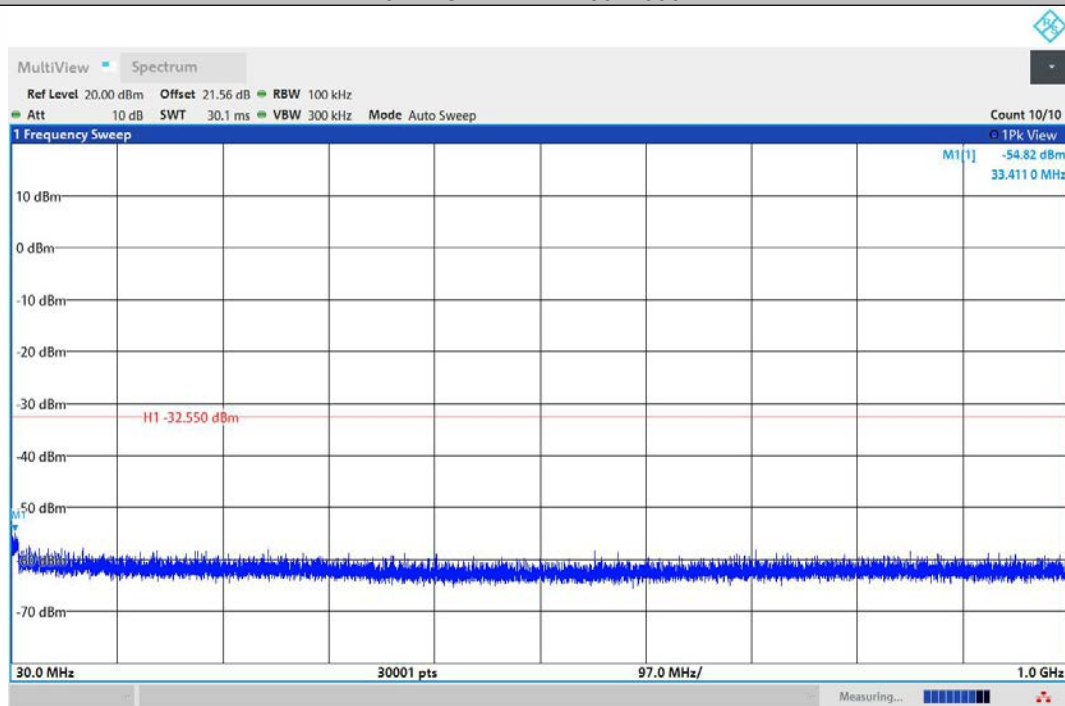
11N40MIMO-Ant1-2422-0~Reference-PASS



11N40MIMO-Ant2-2422-0~Reference-PASS



11N40MIMO-Ant1-2422-30~1000-PASS



11N40MIMO-Ant2-2422-30~1000-PASS