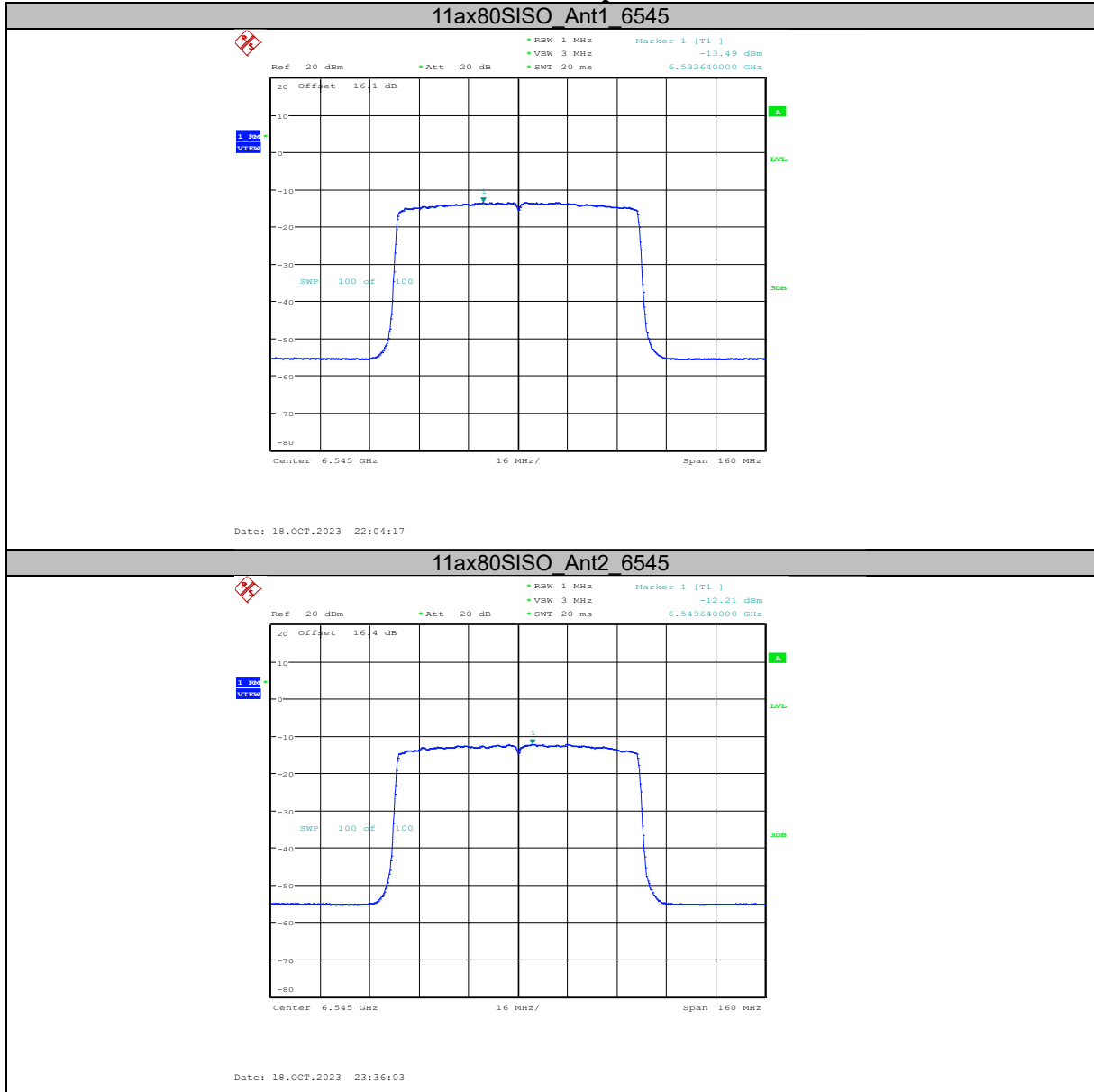


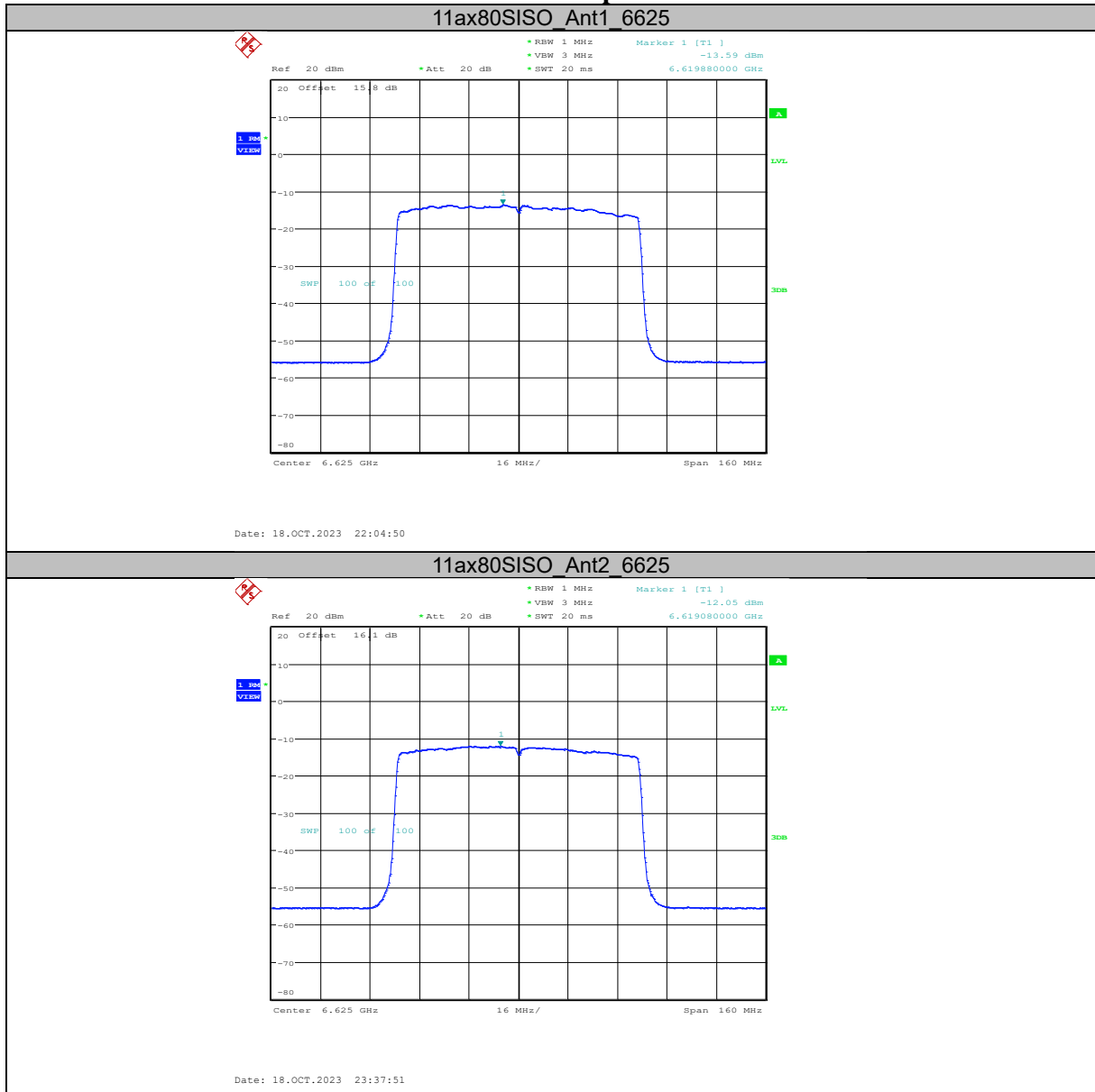
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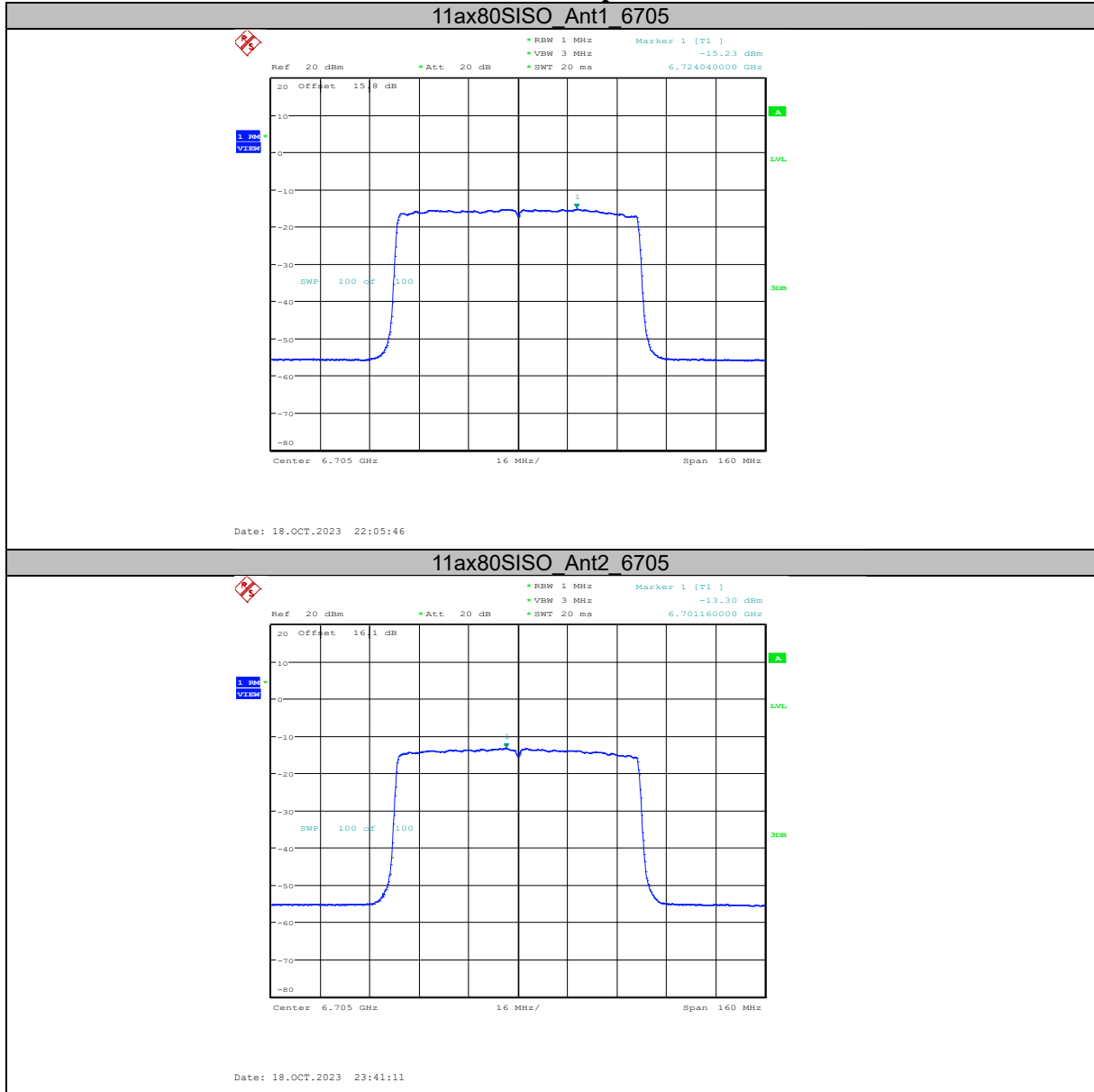
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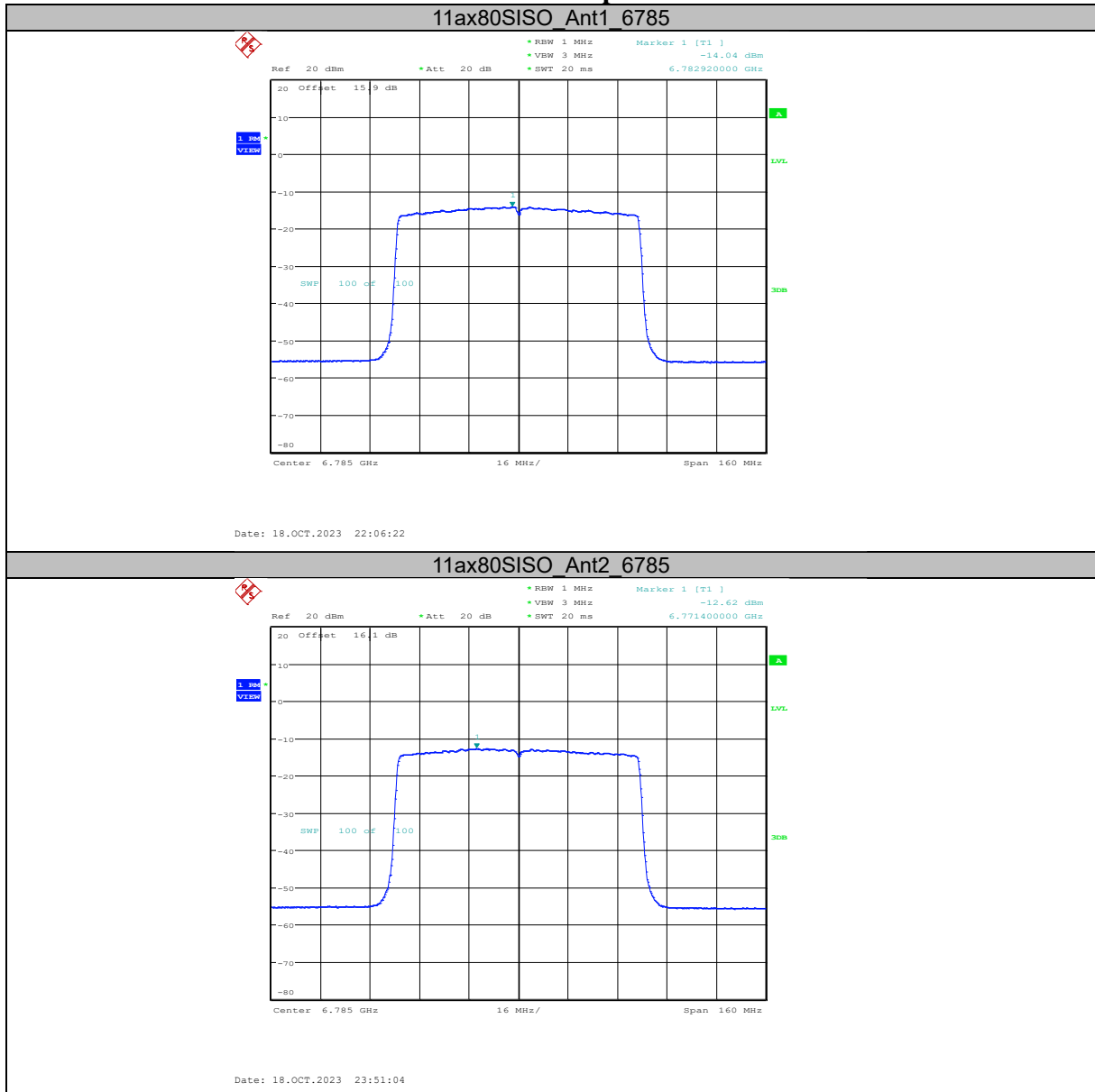
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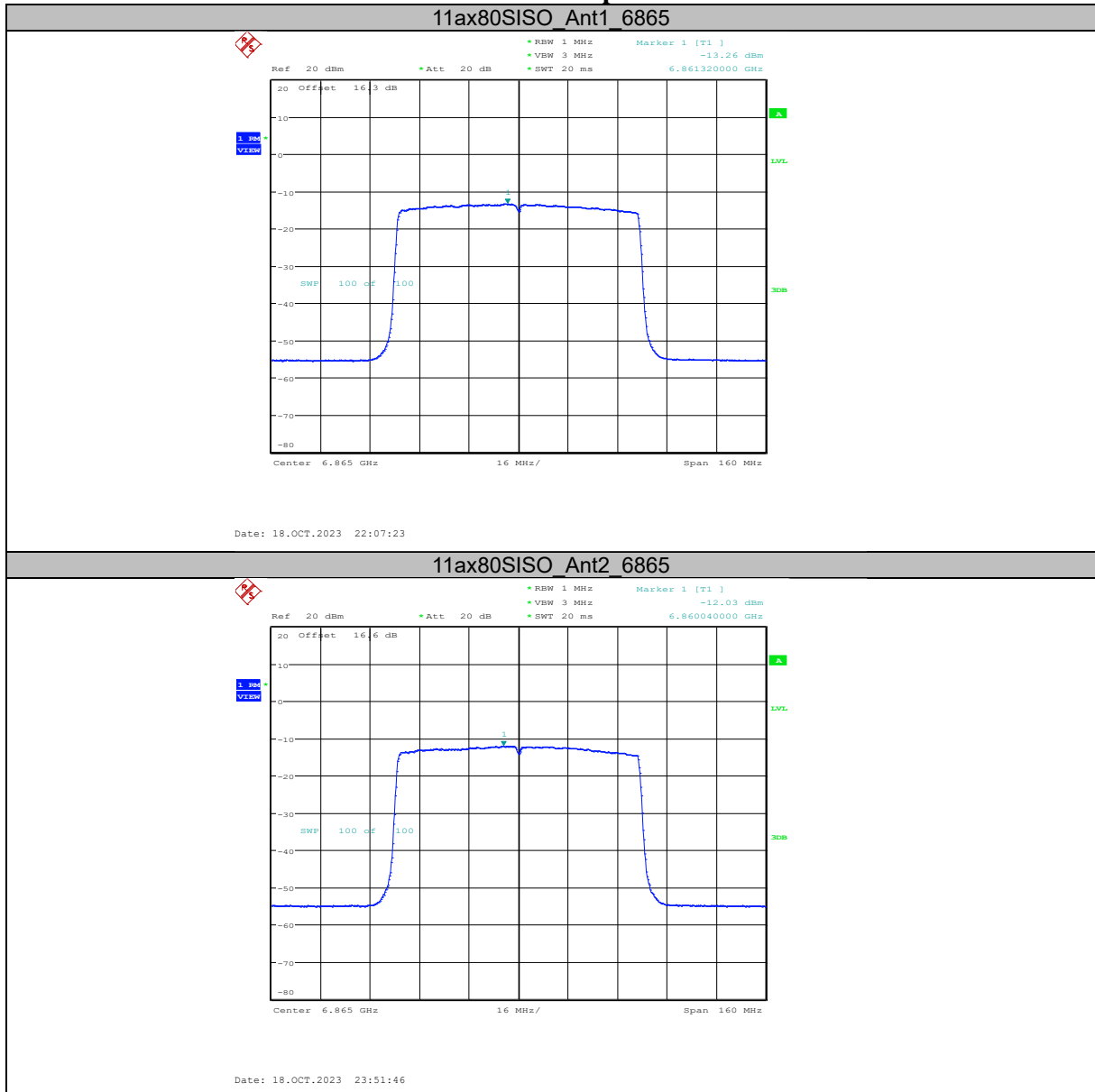
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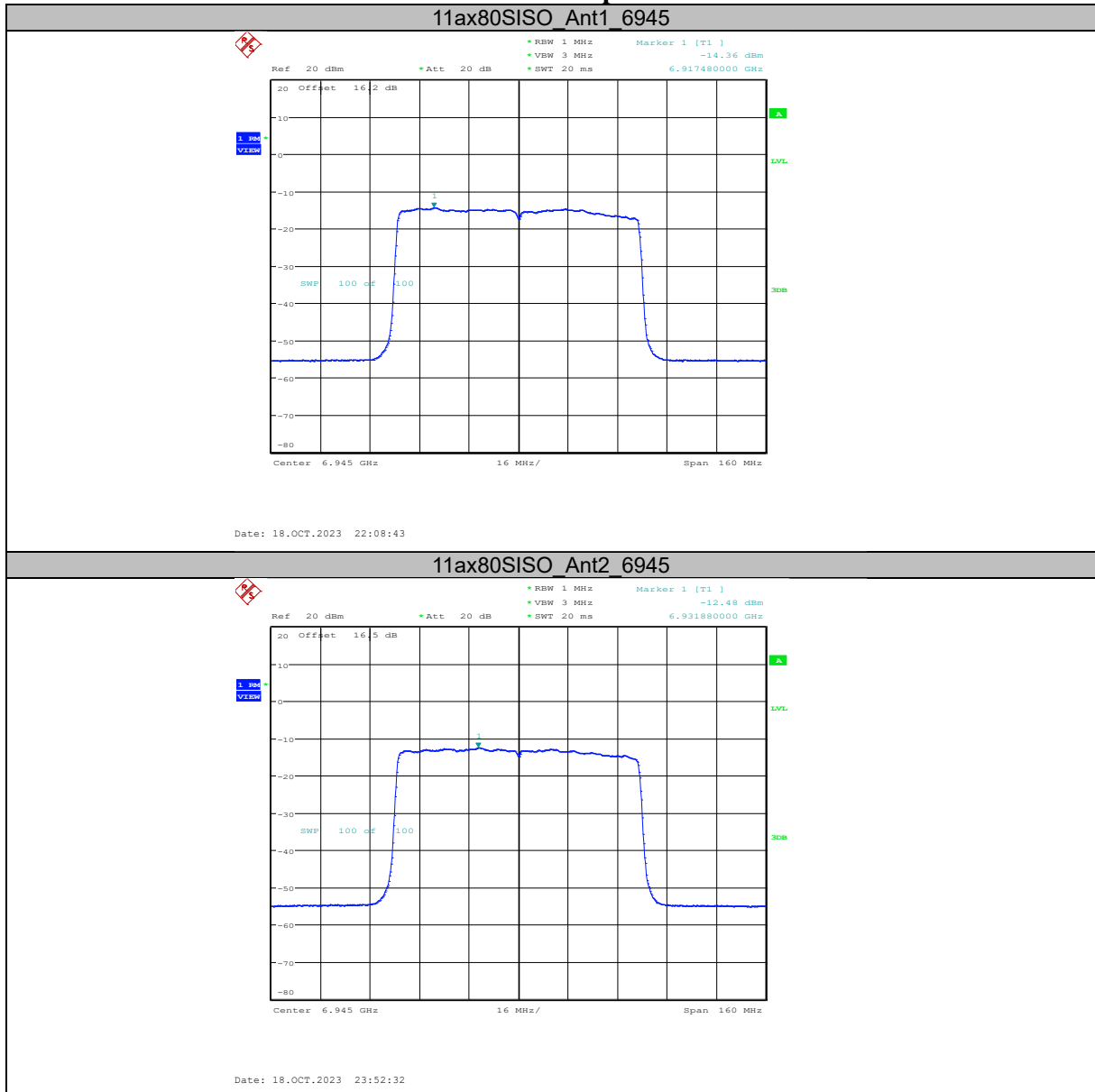
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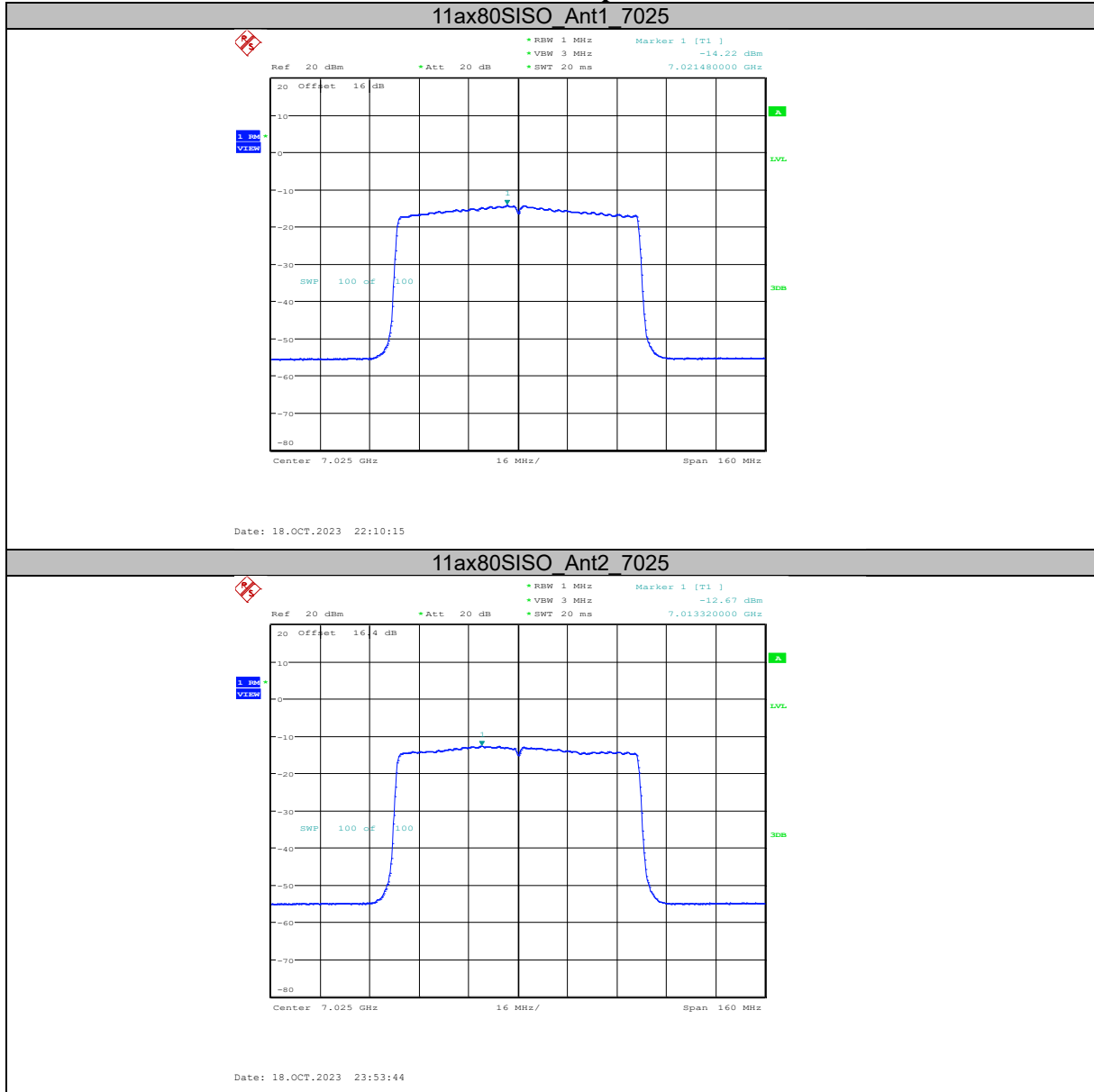
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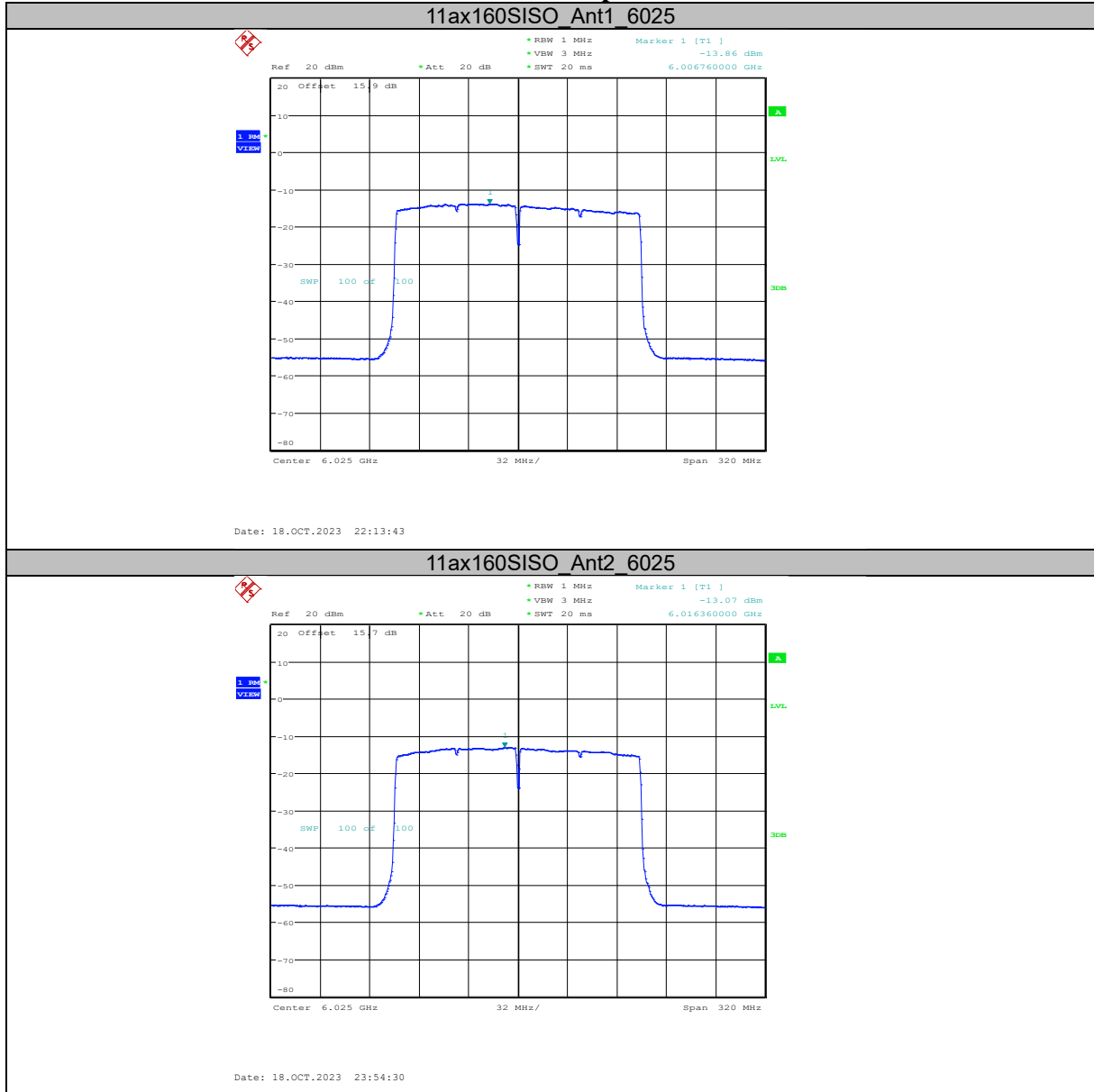
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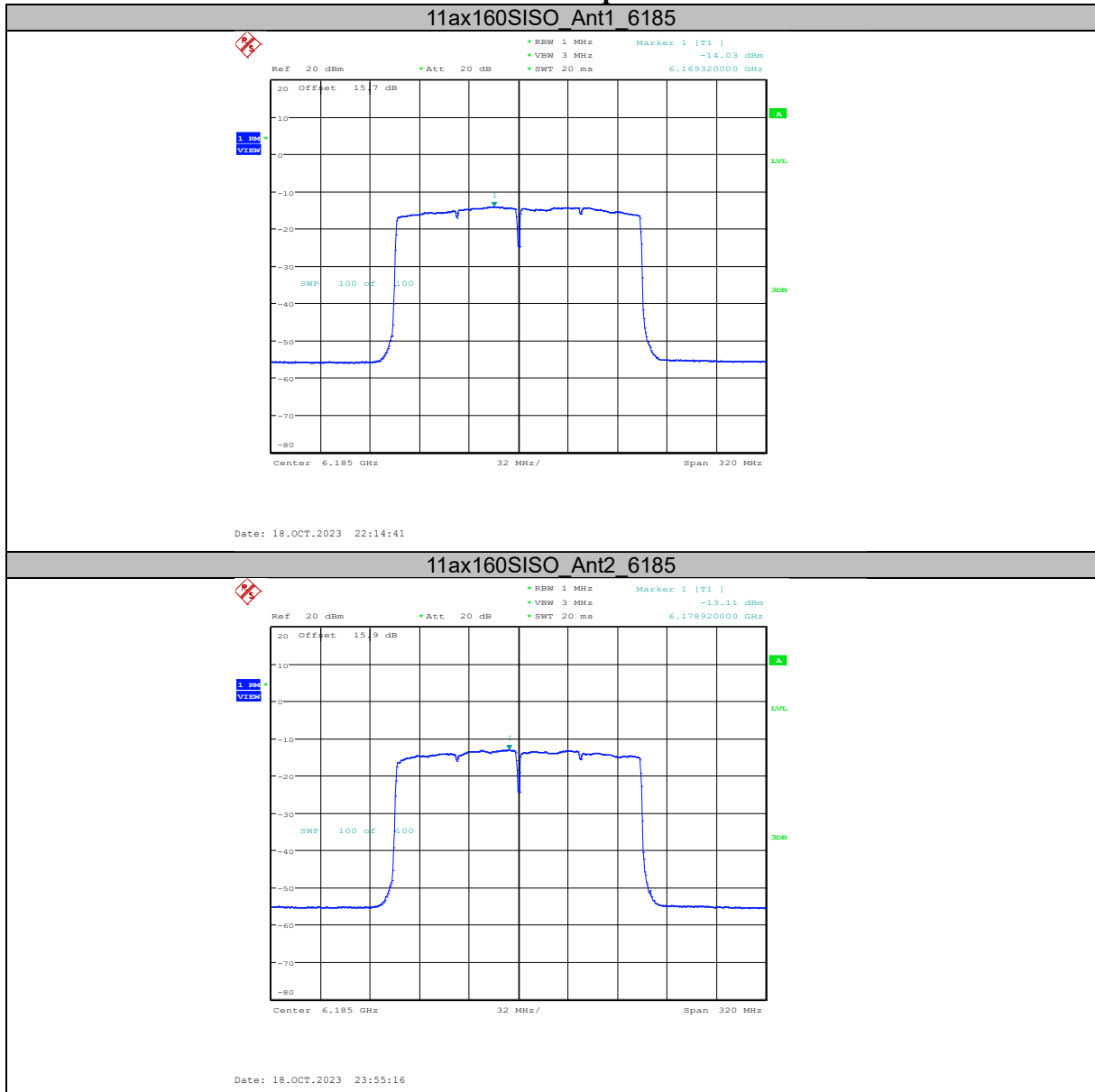
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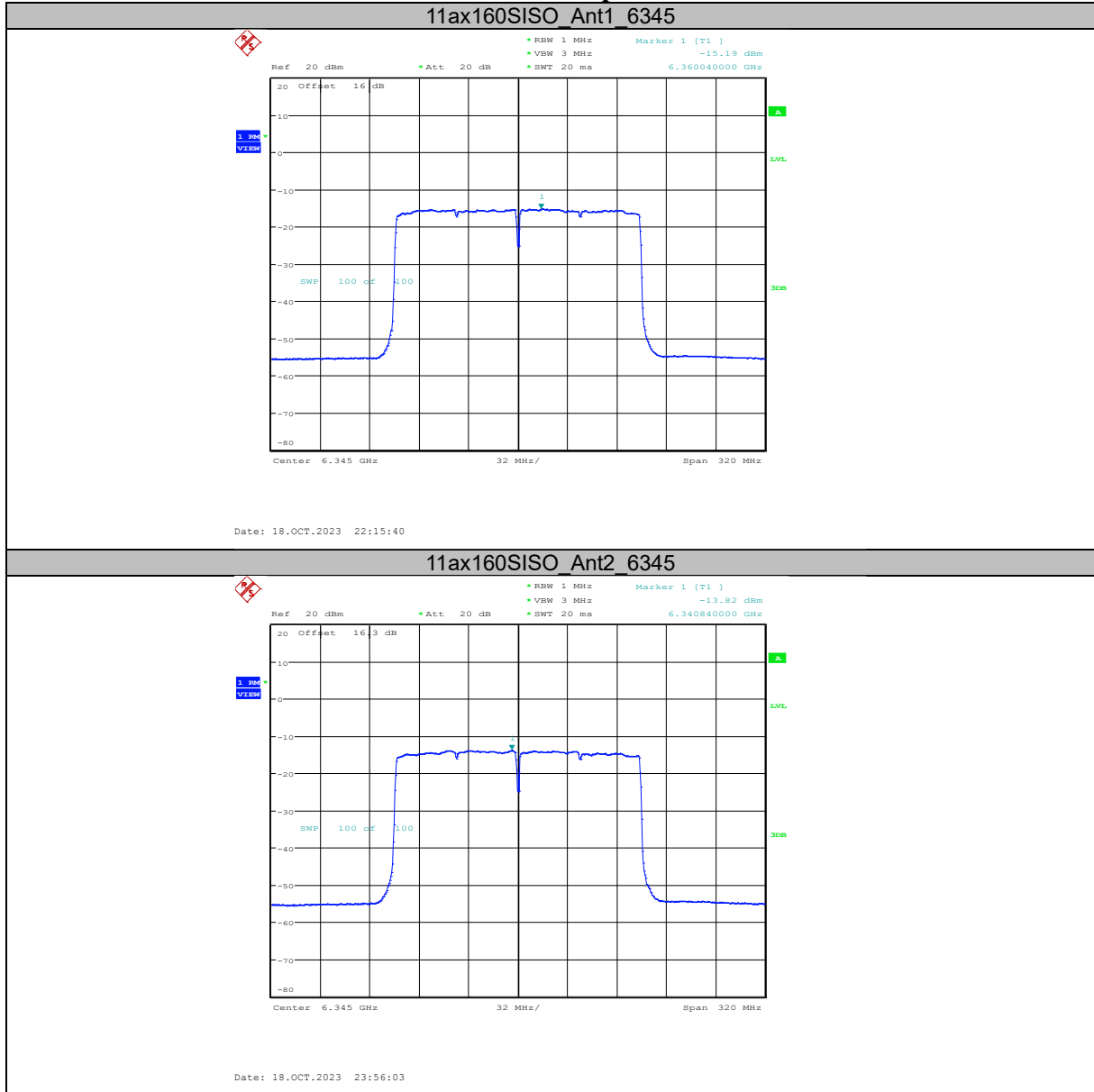
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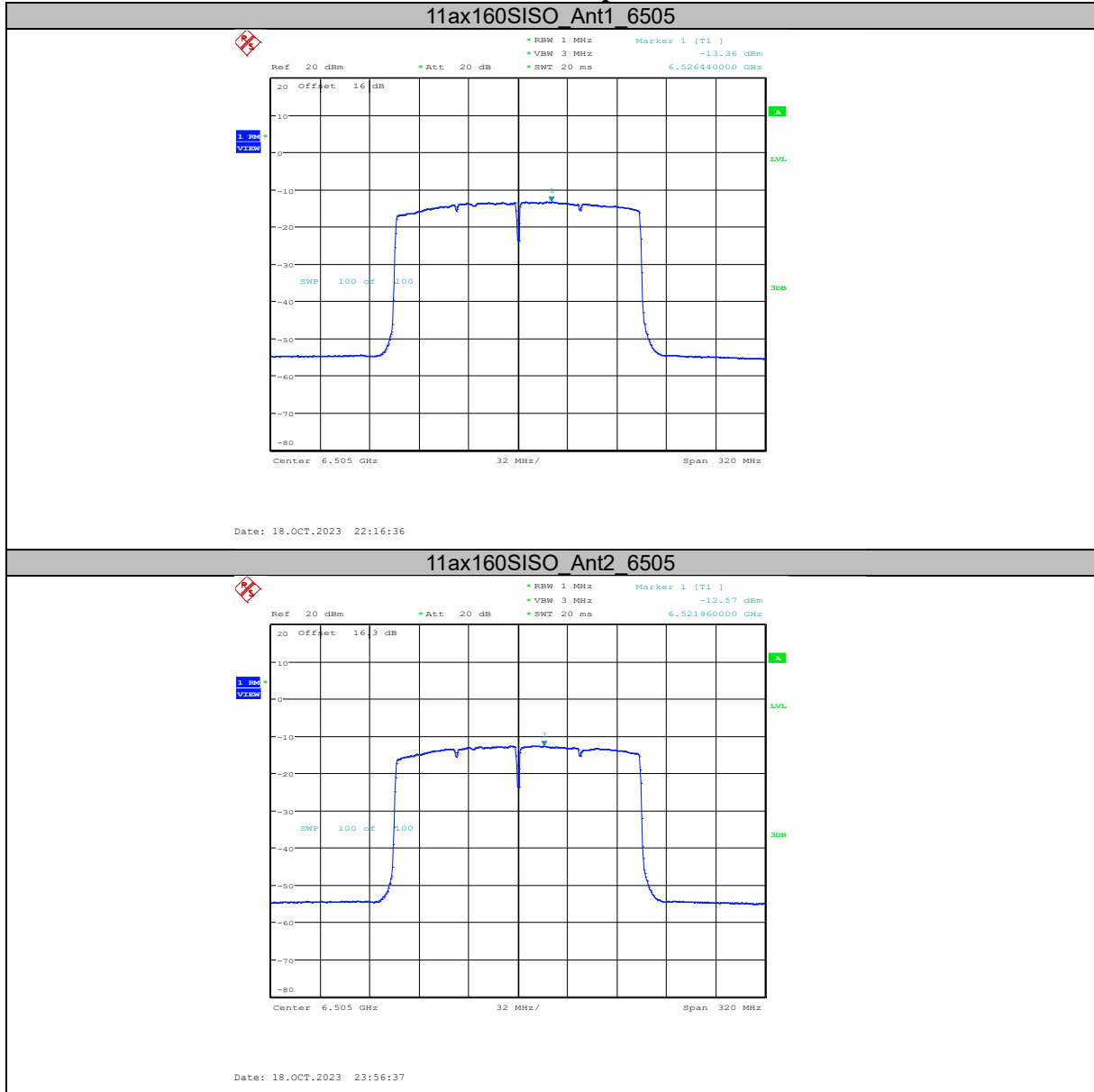
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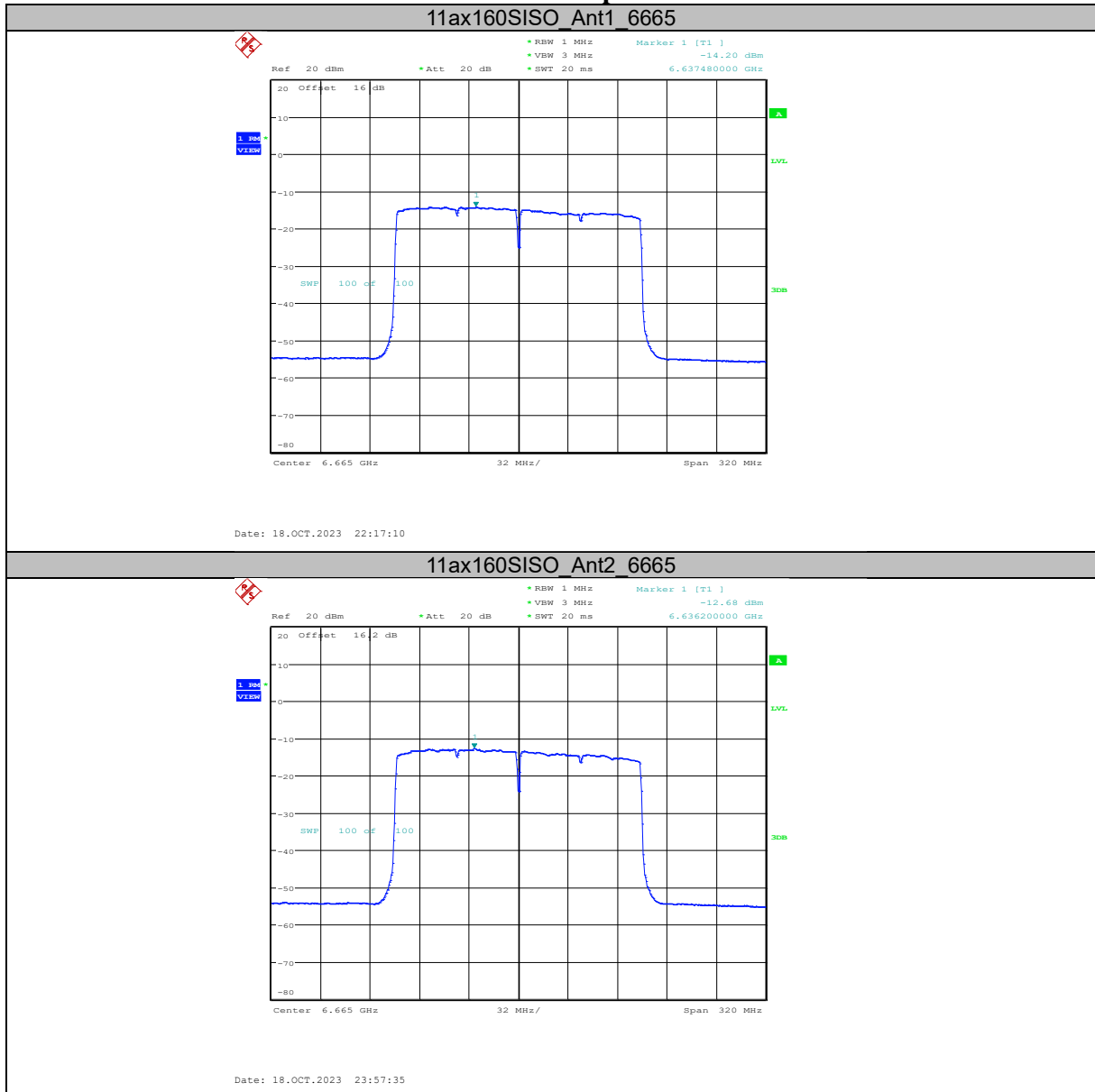
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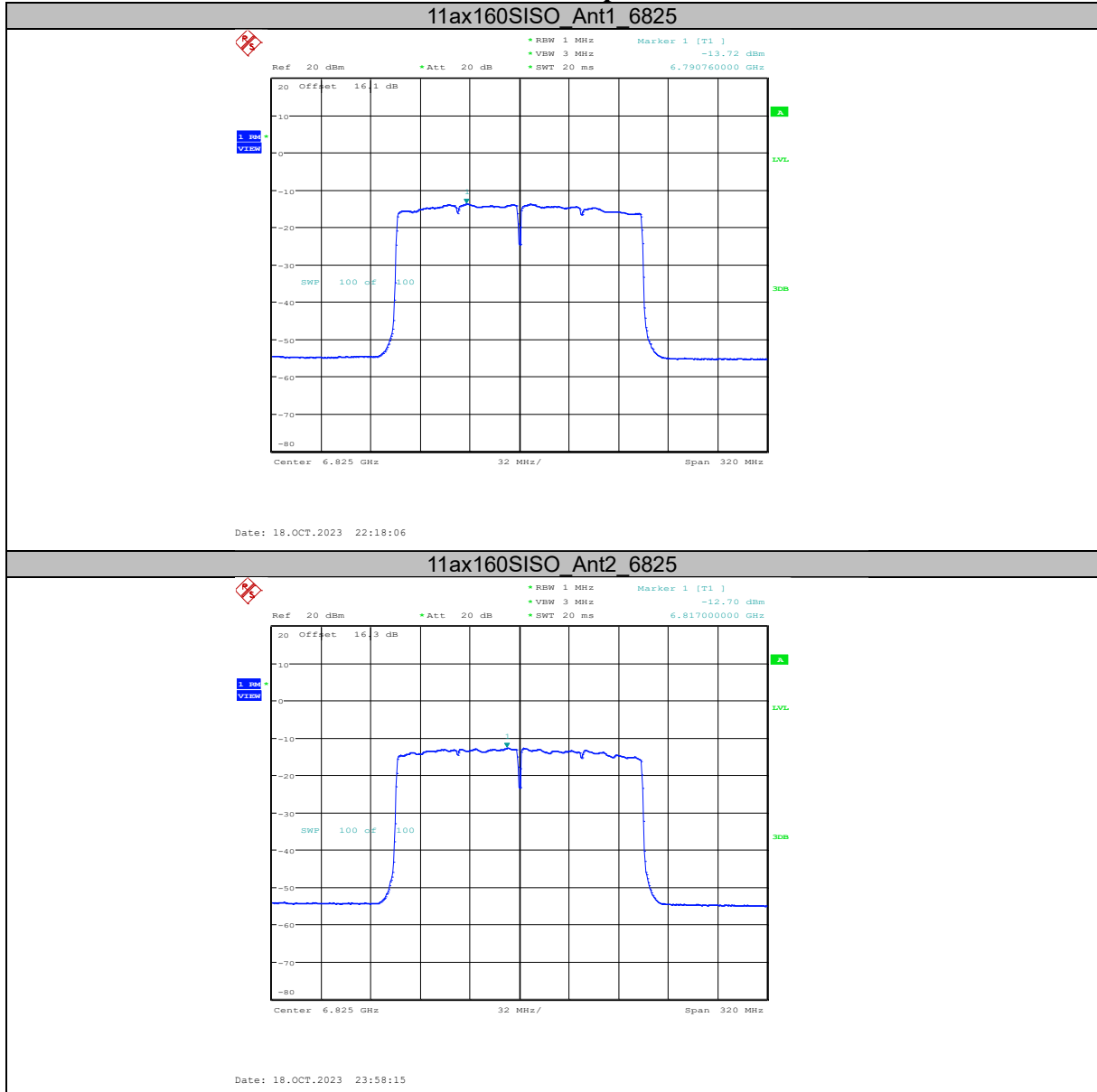
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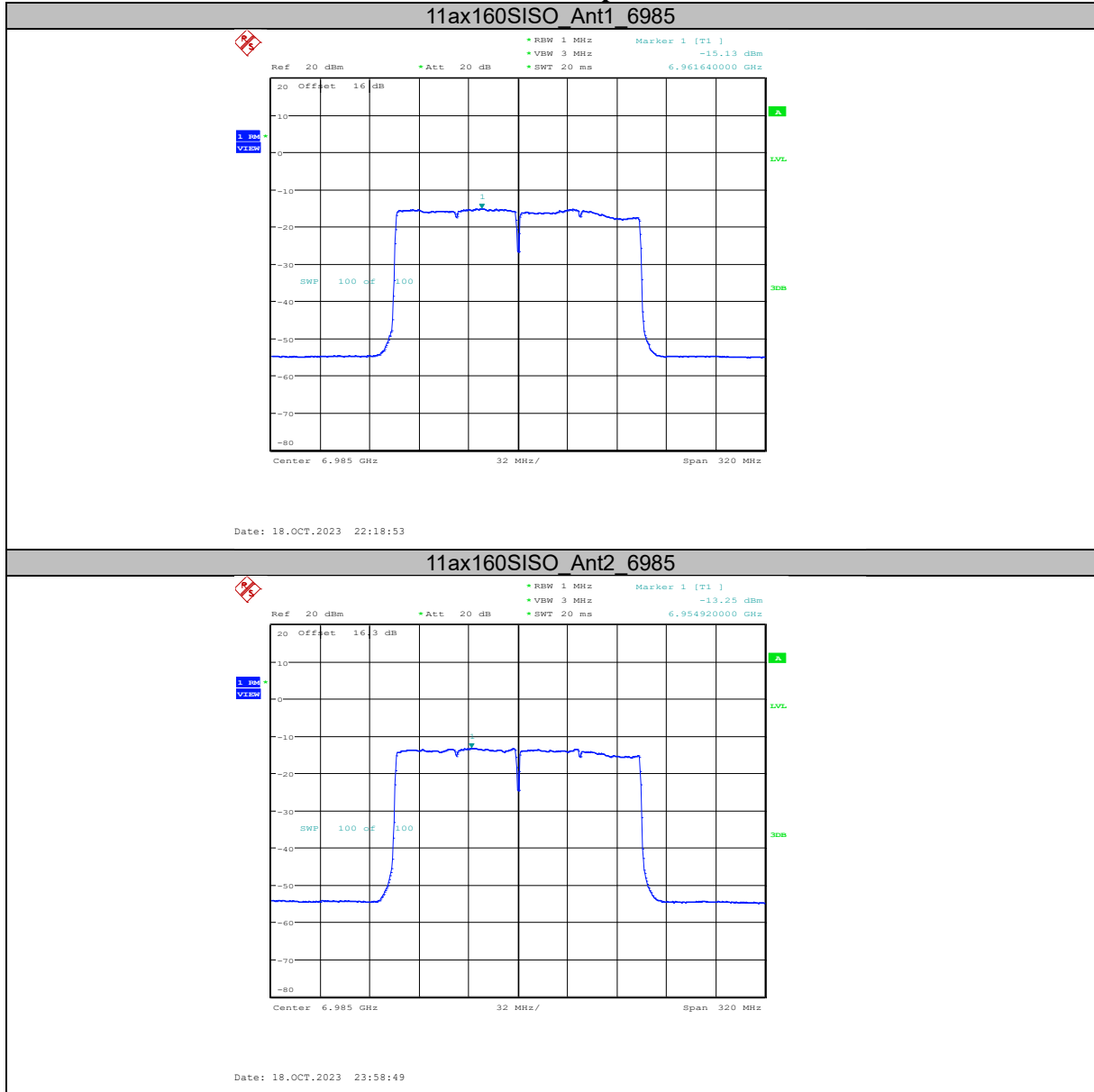
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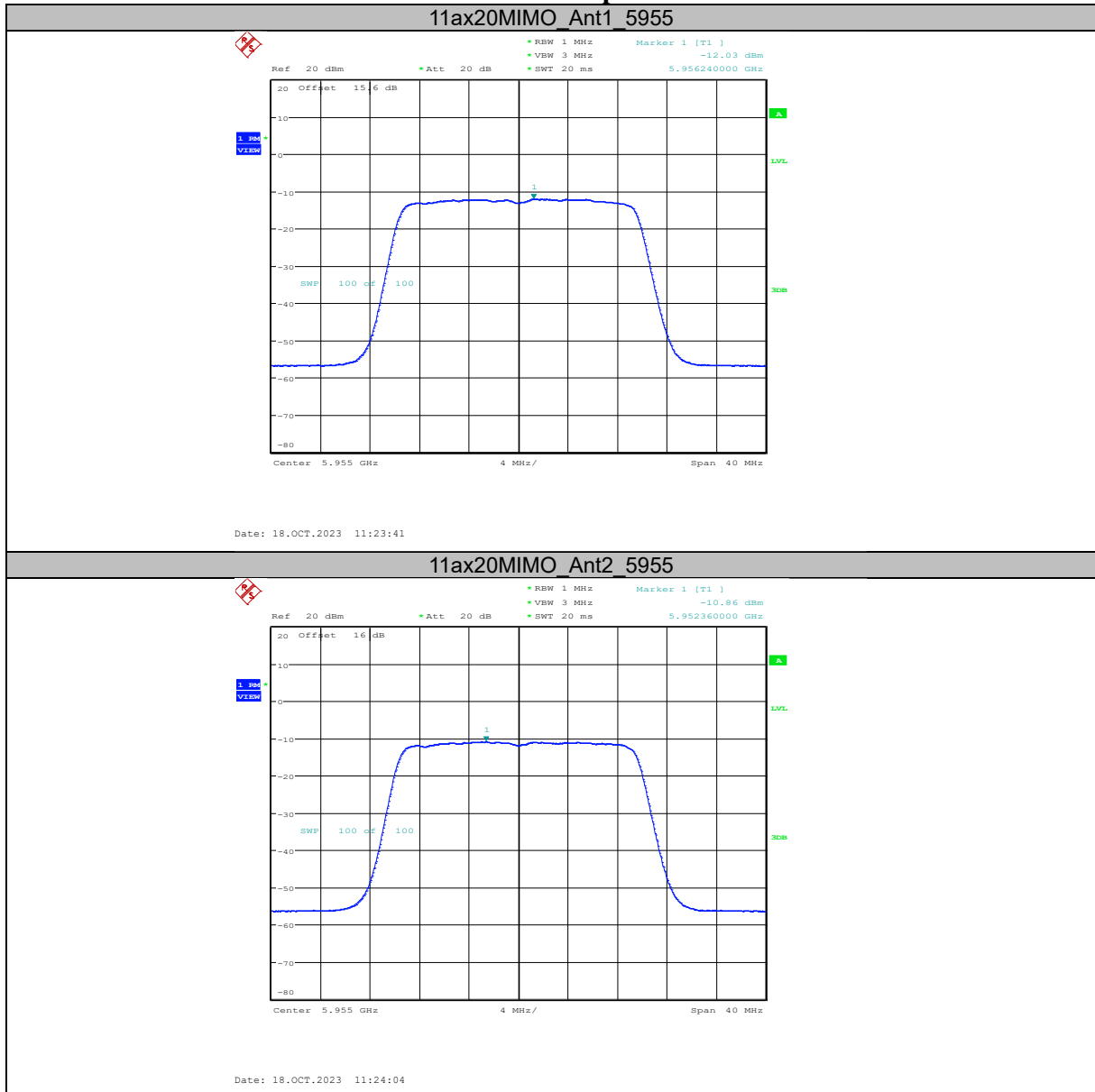
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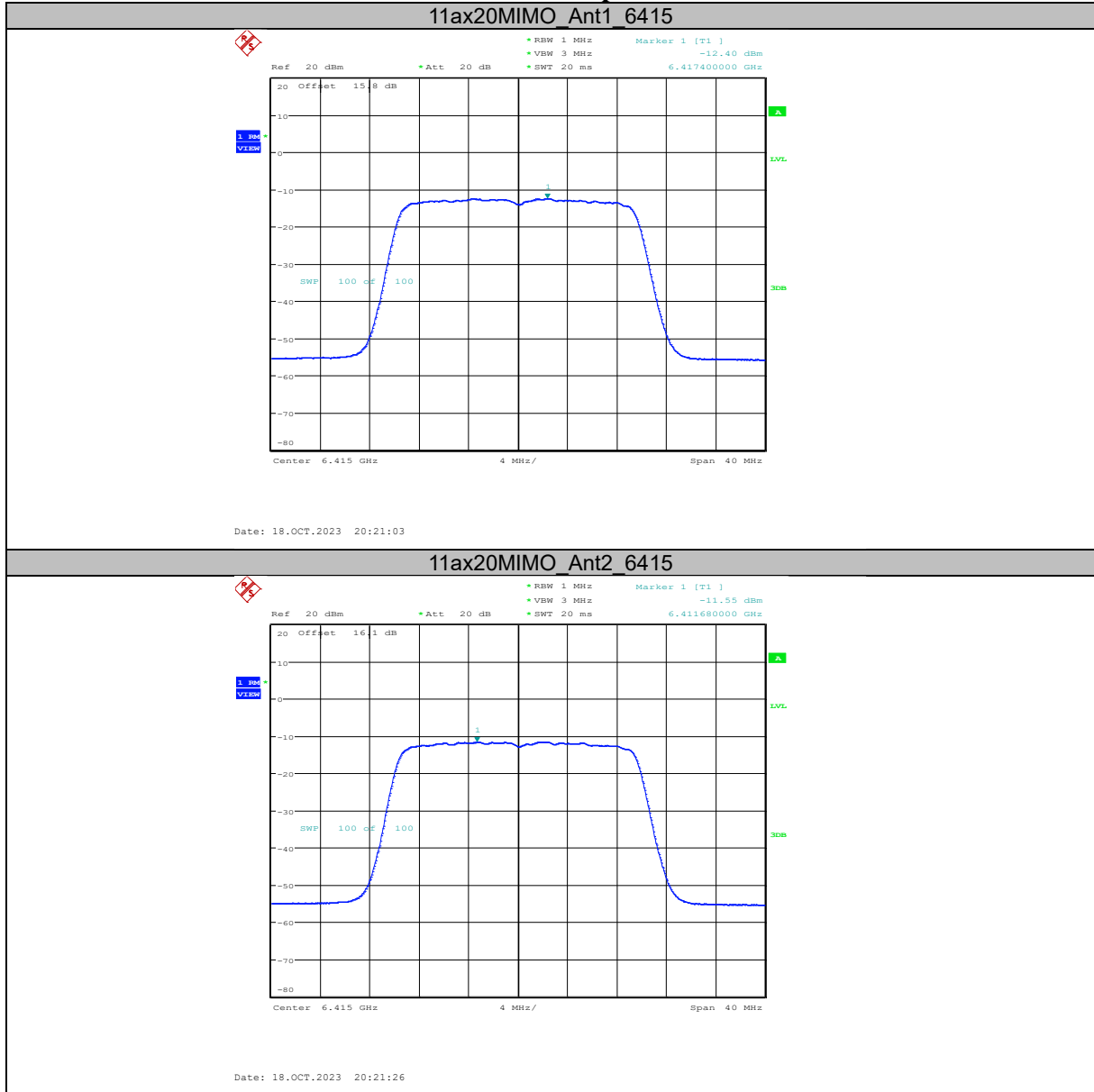
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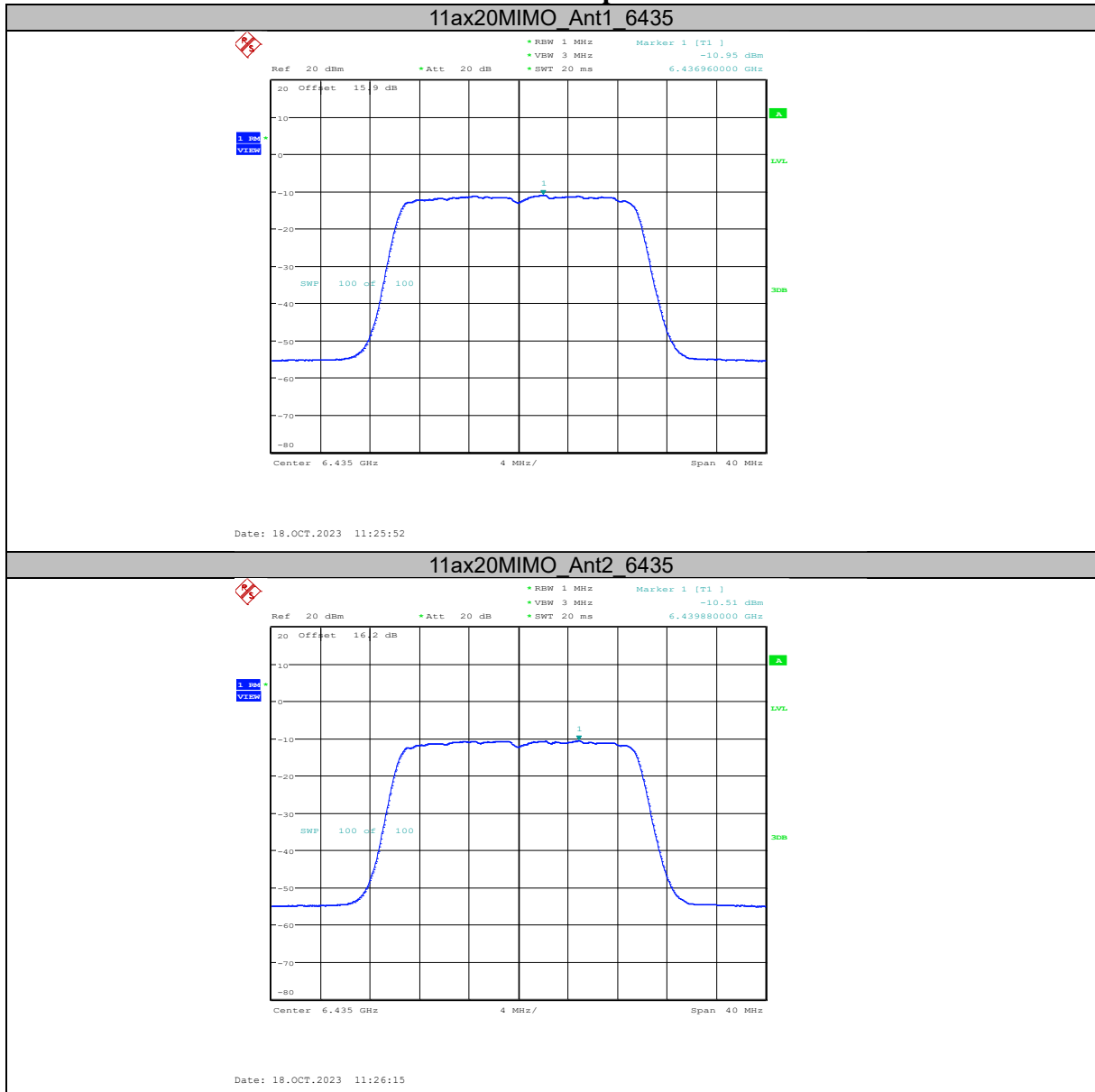
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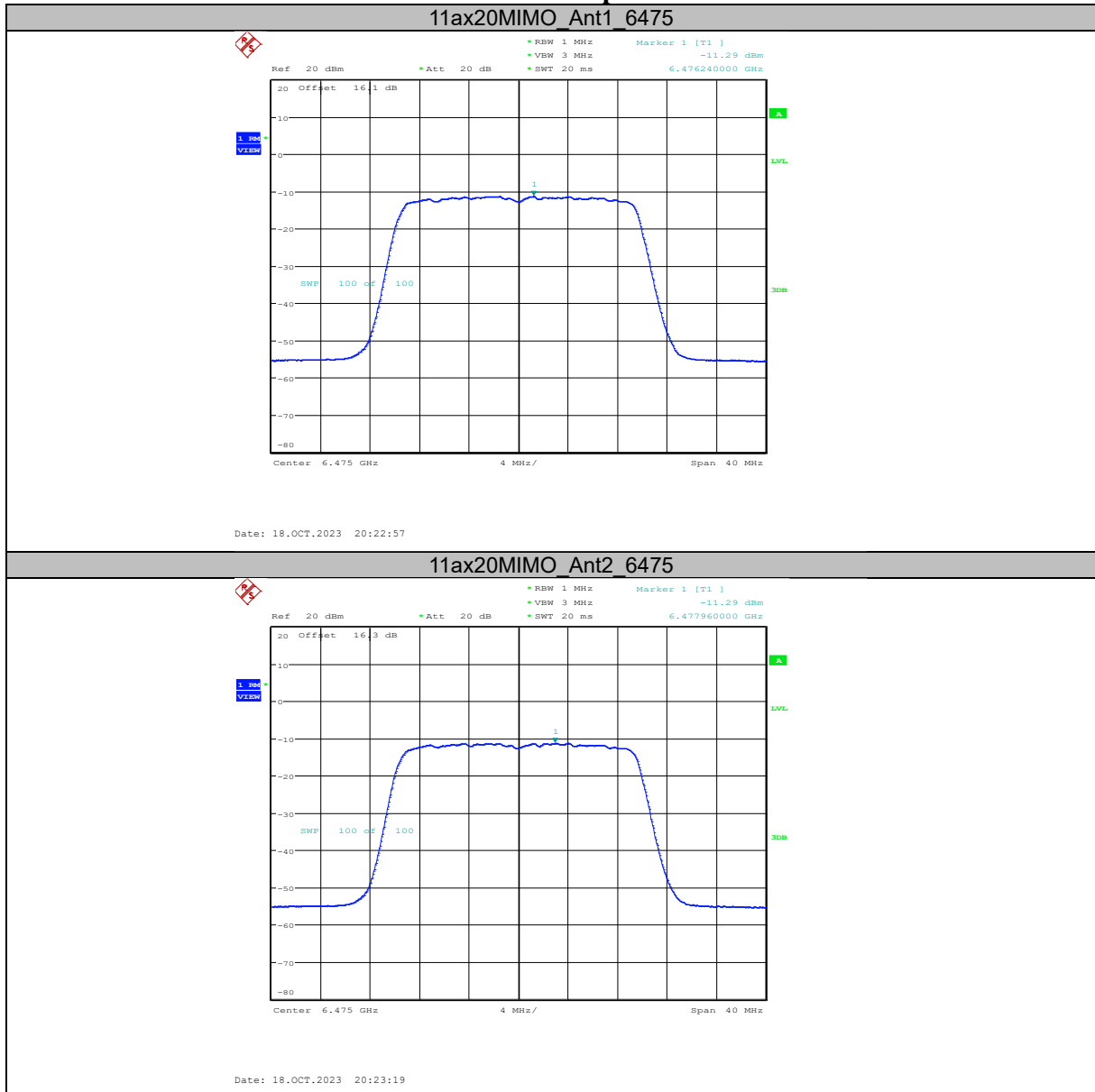
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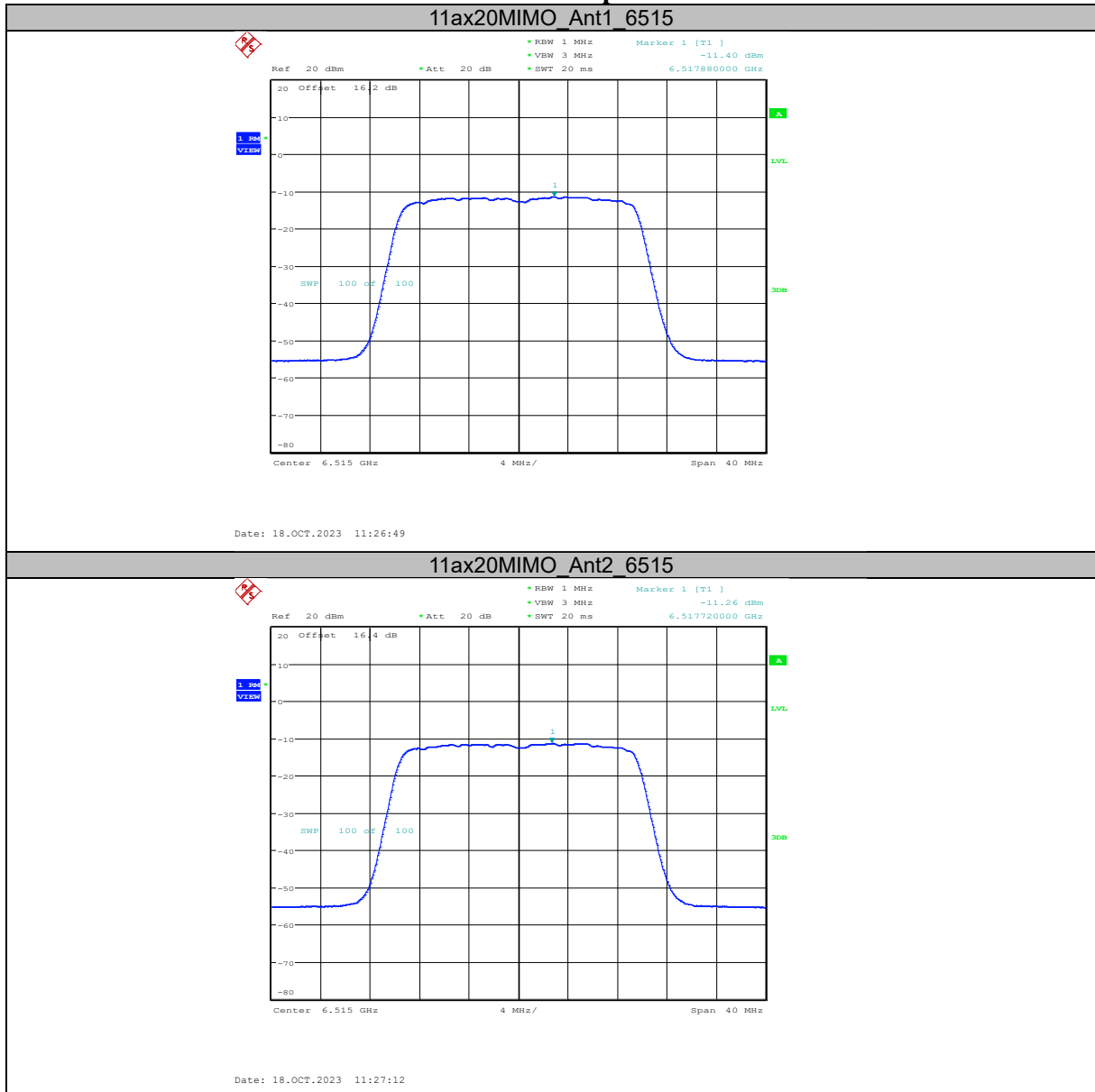
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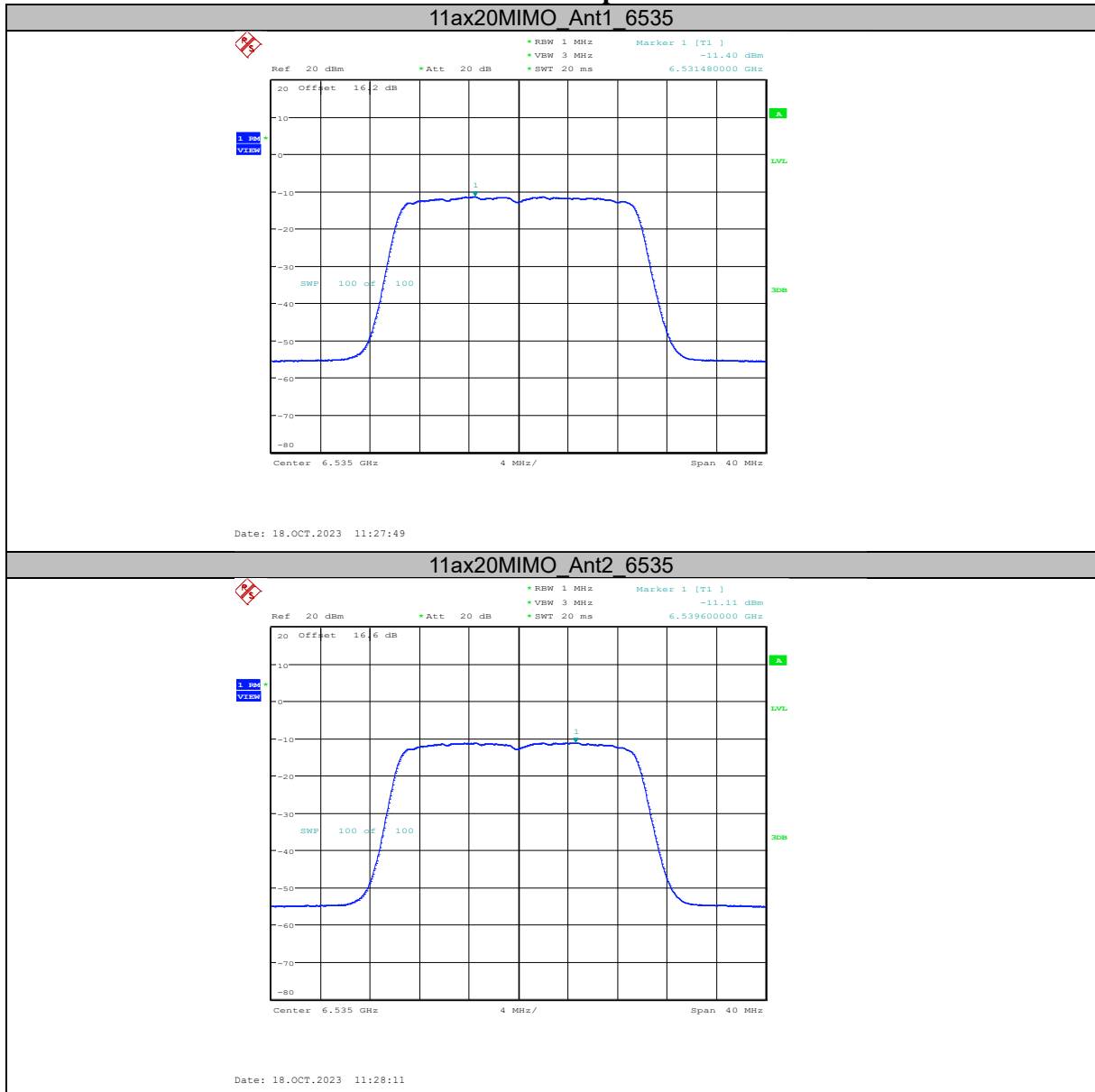
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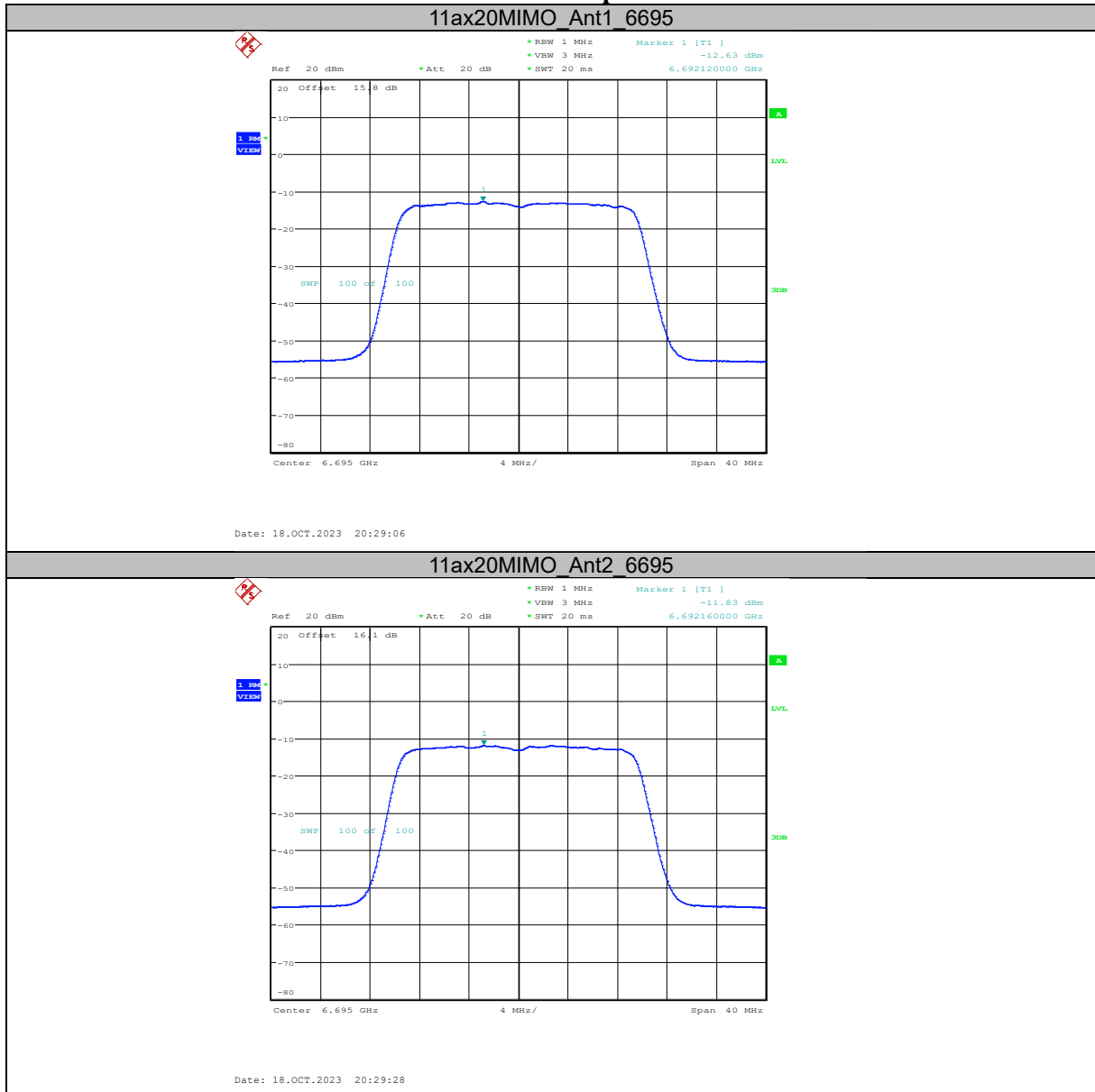
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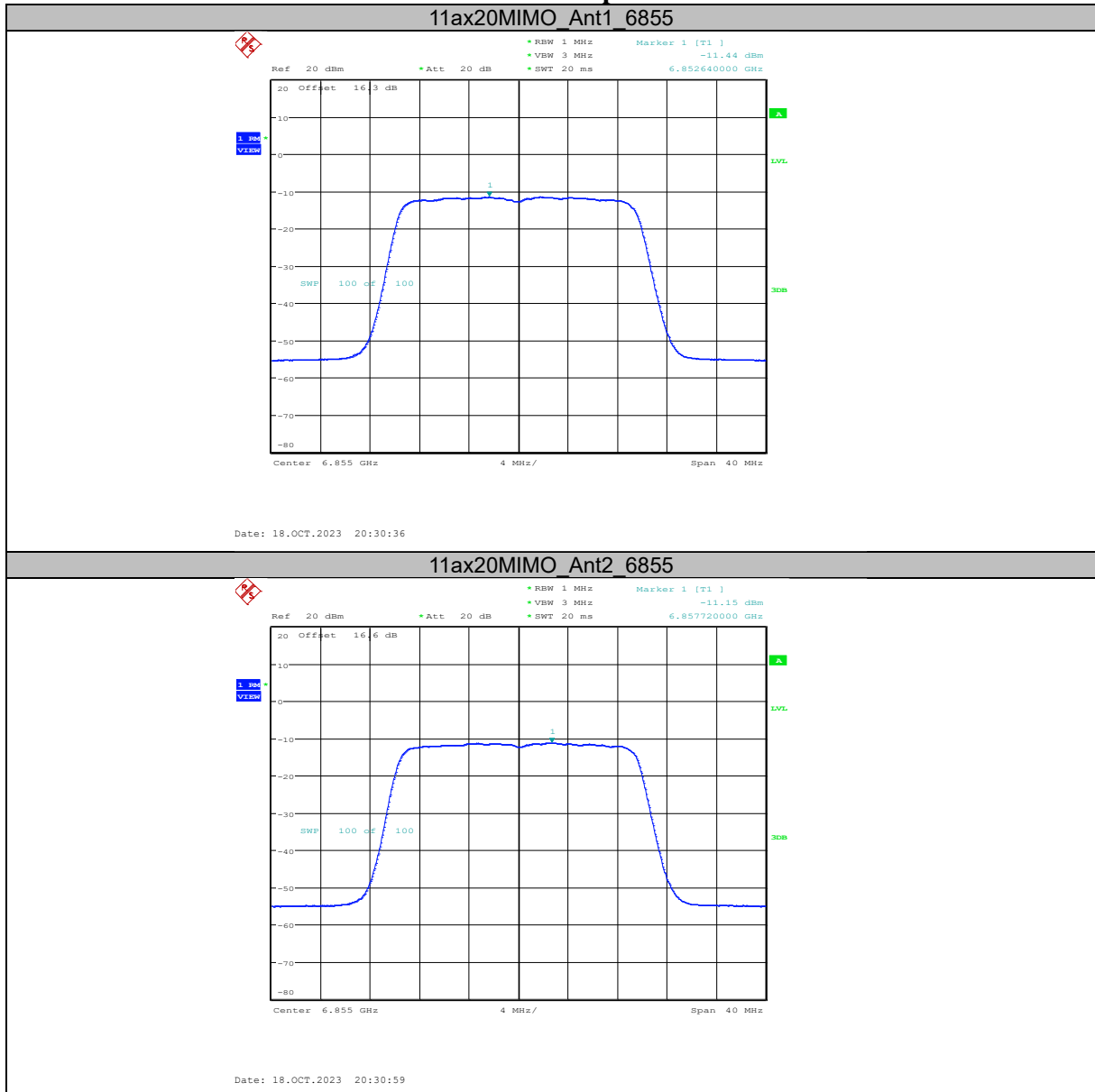
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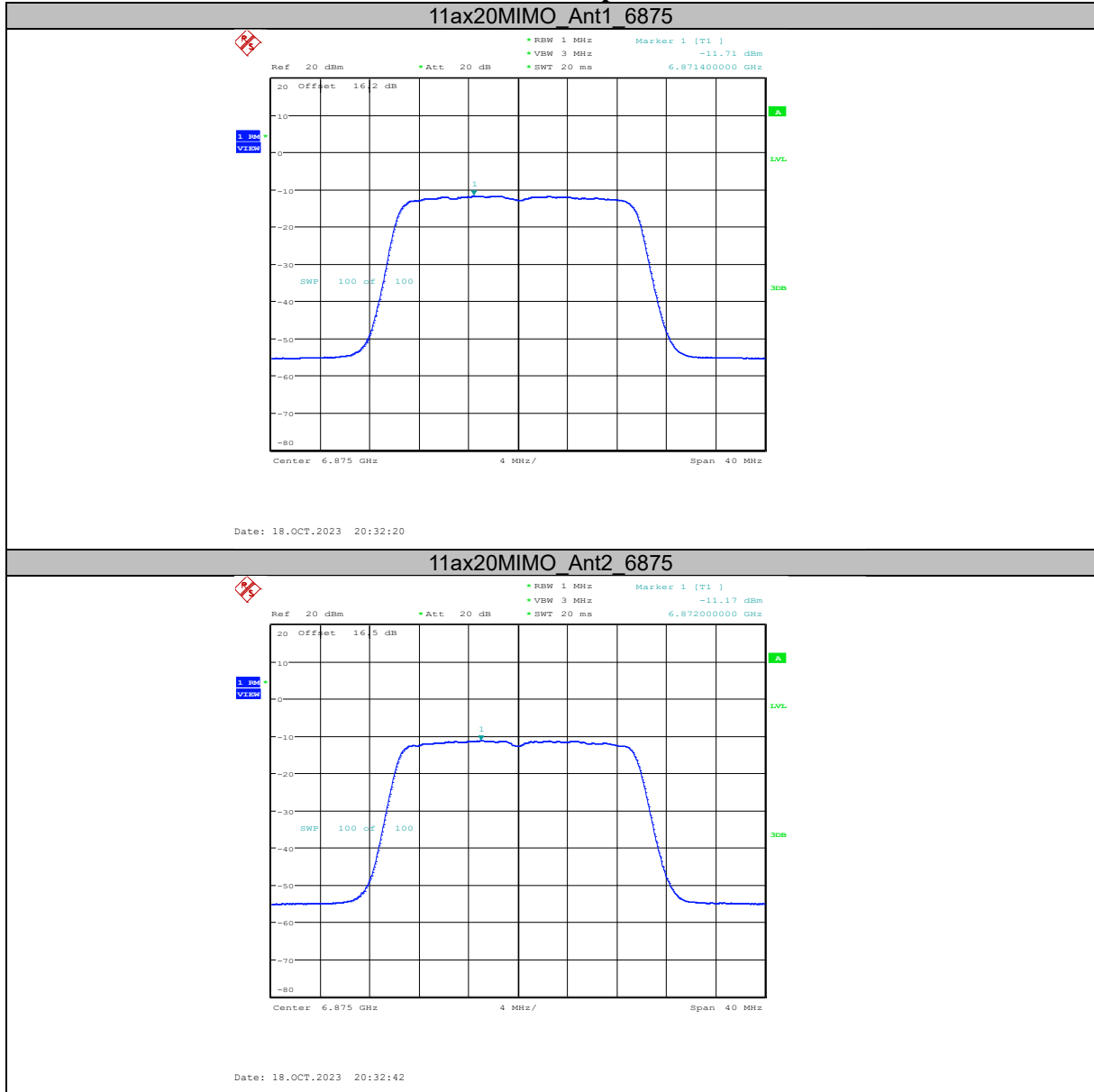
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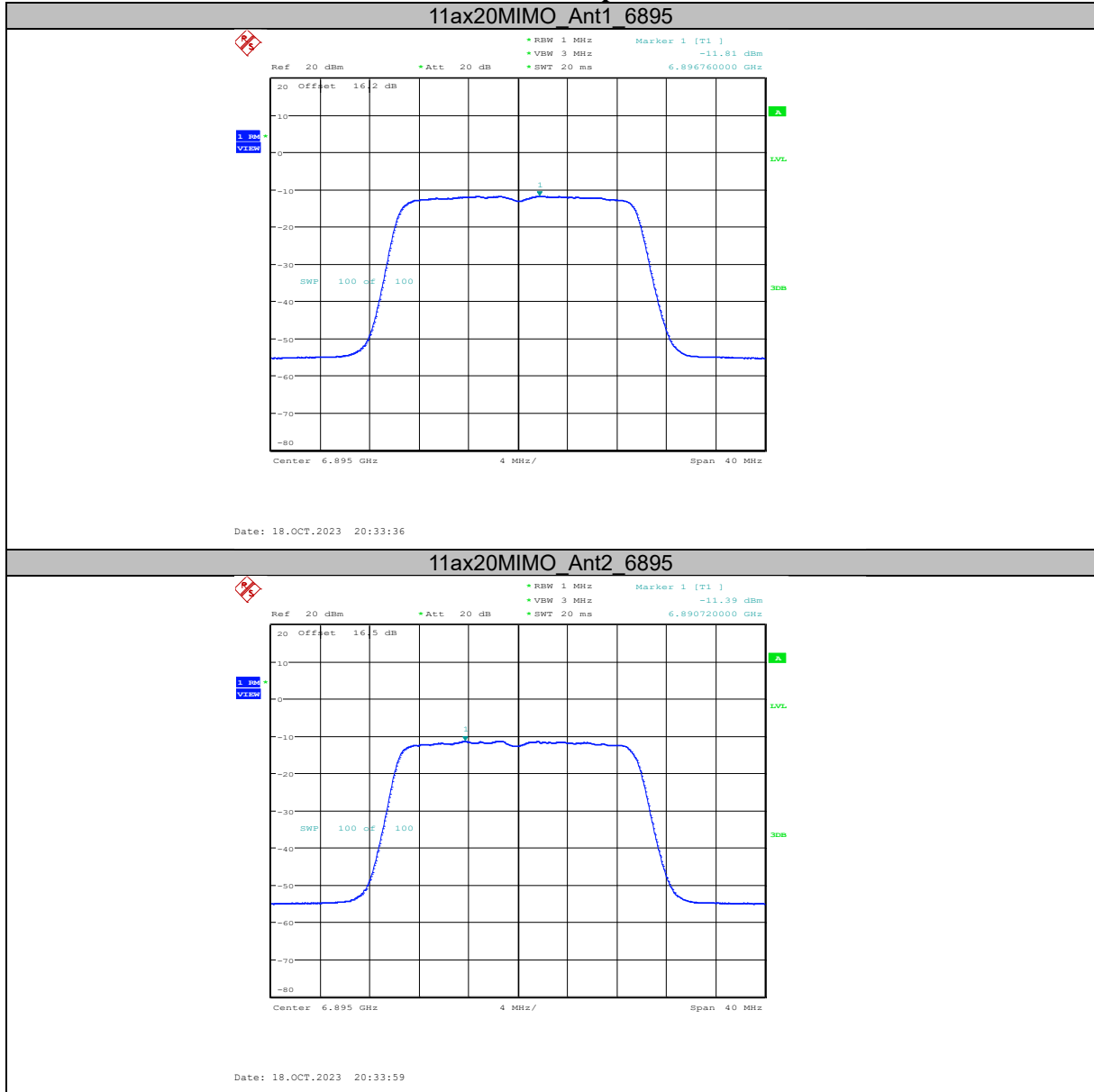
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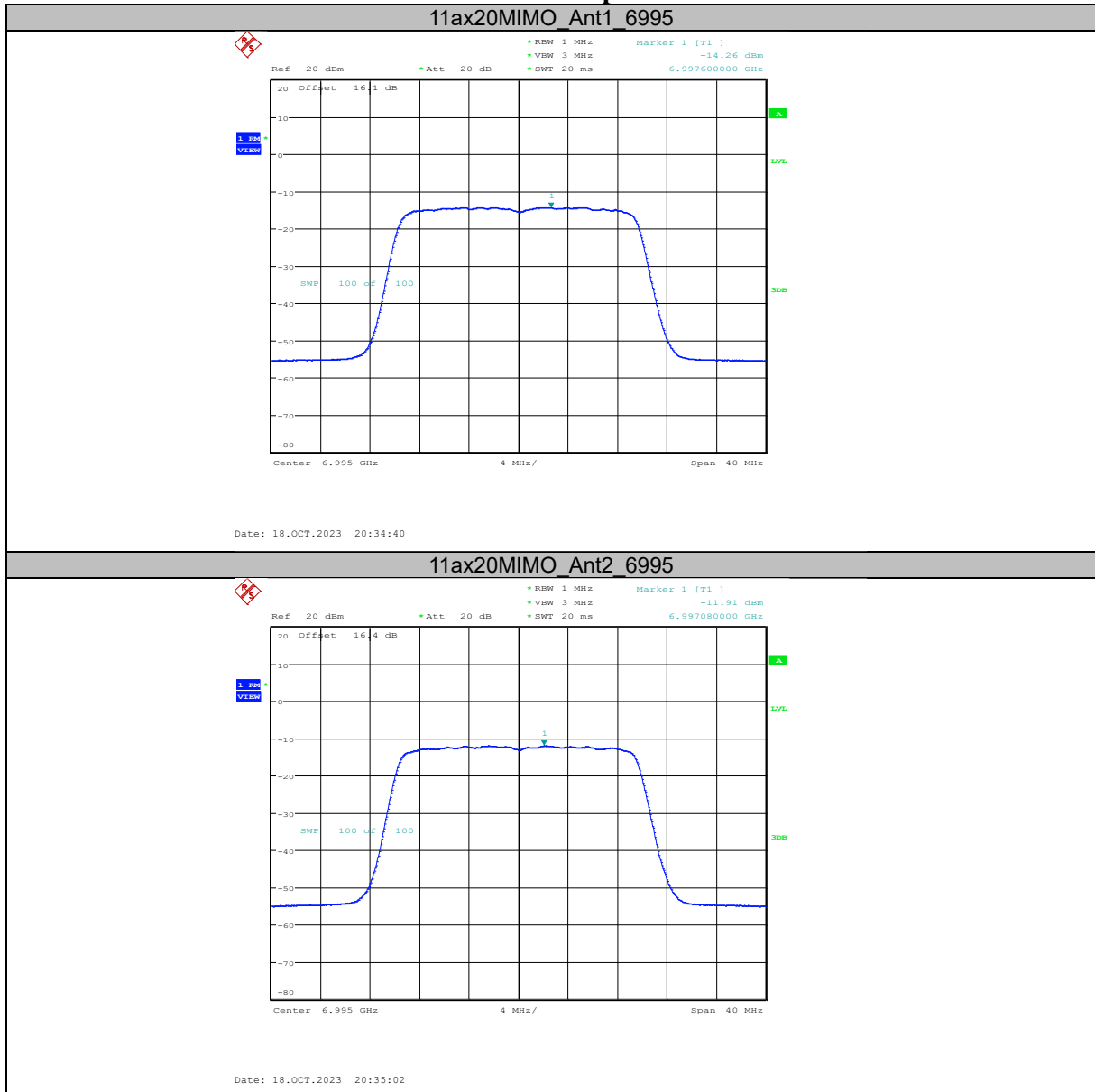
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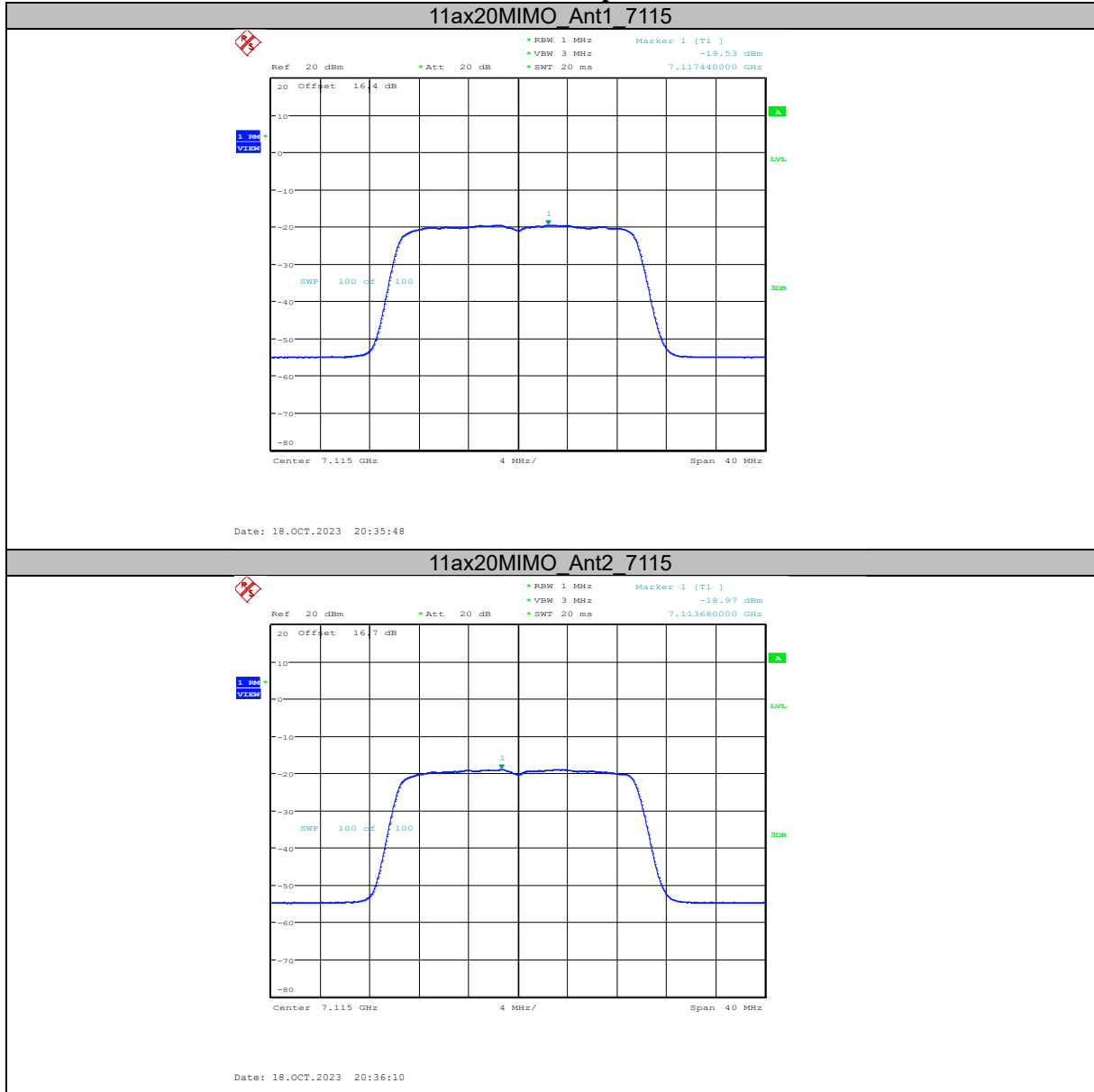
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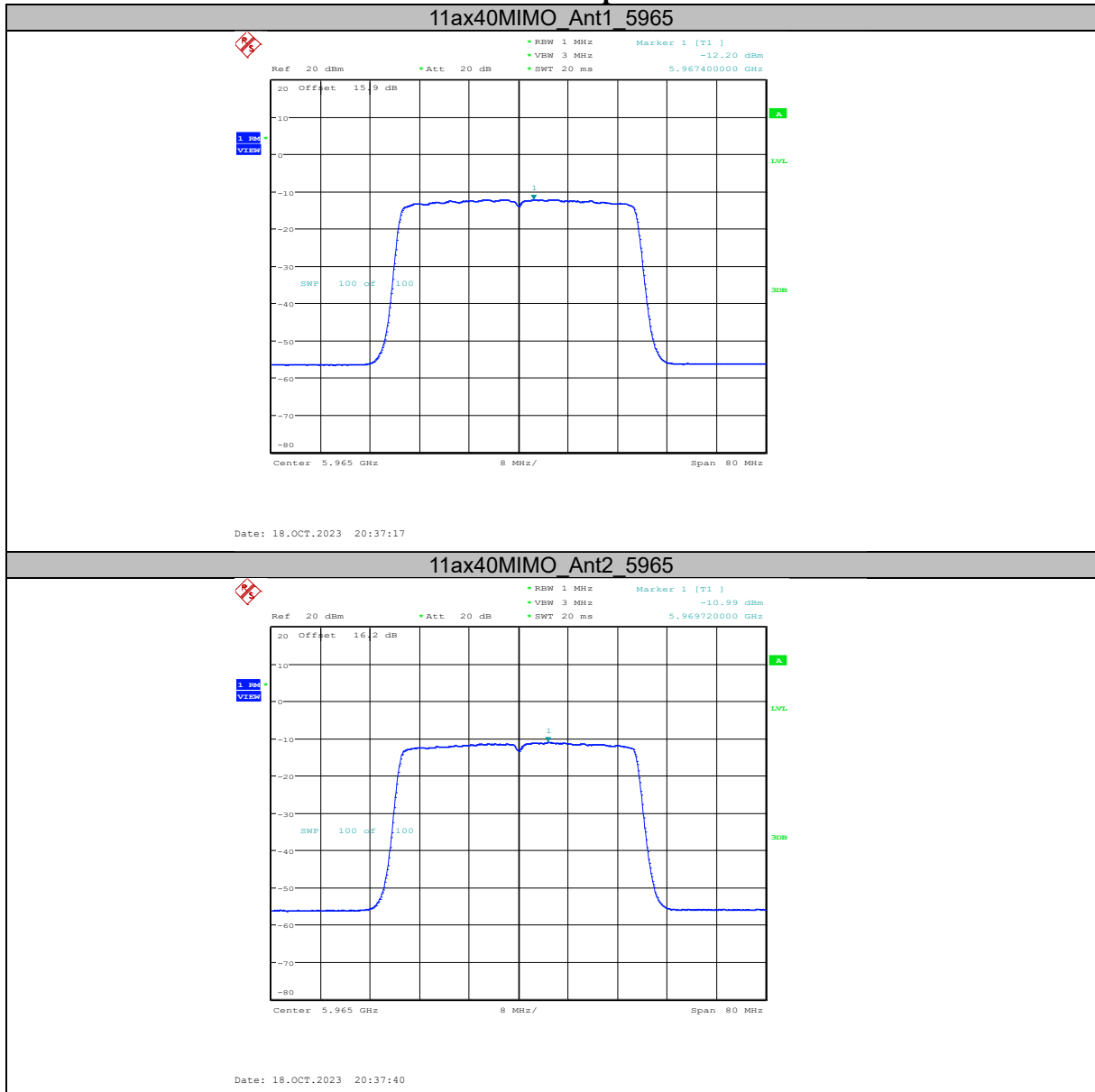
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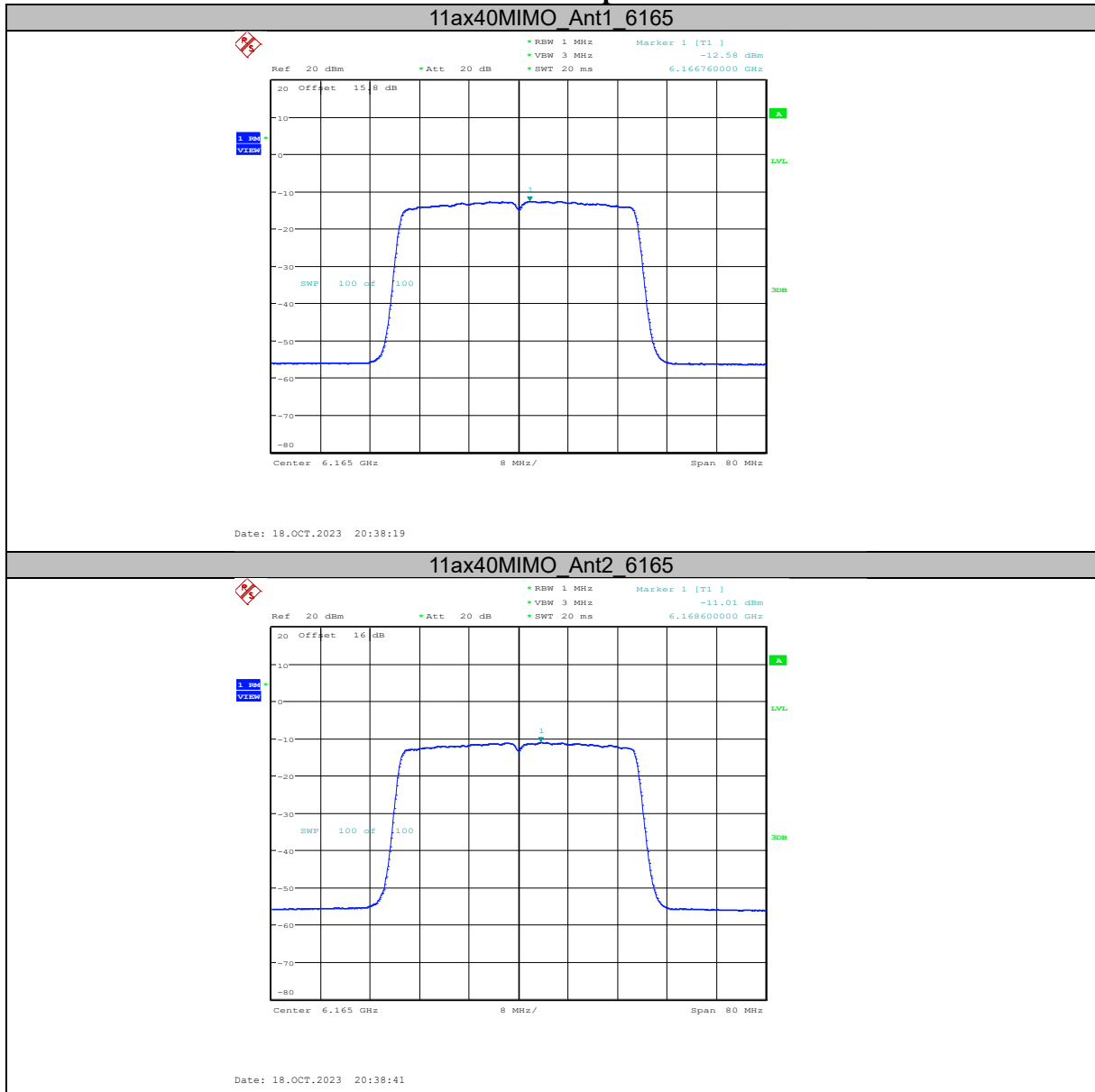
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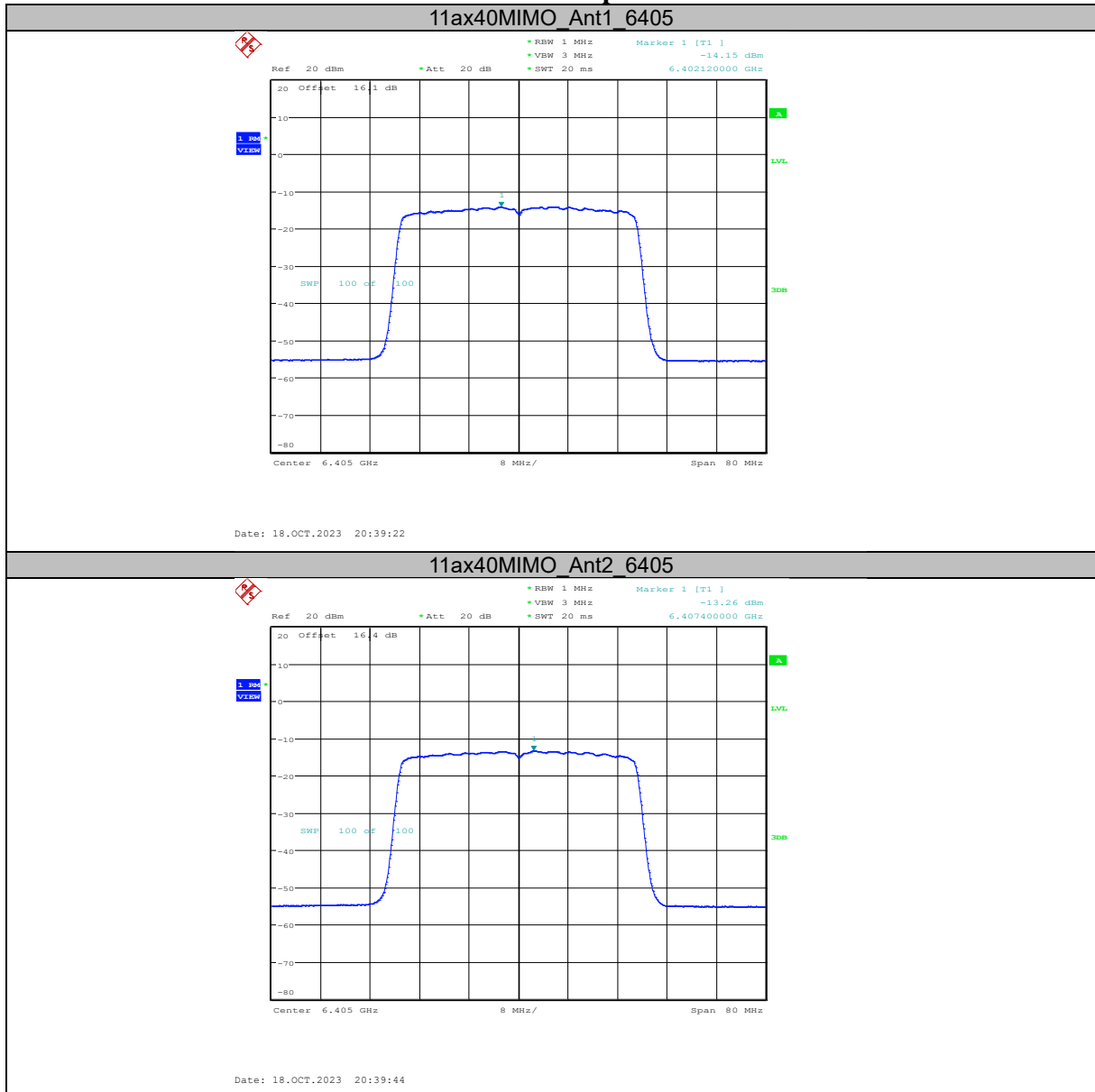
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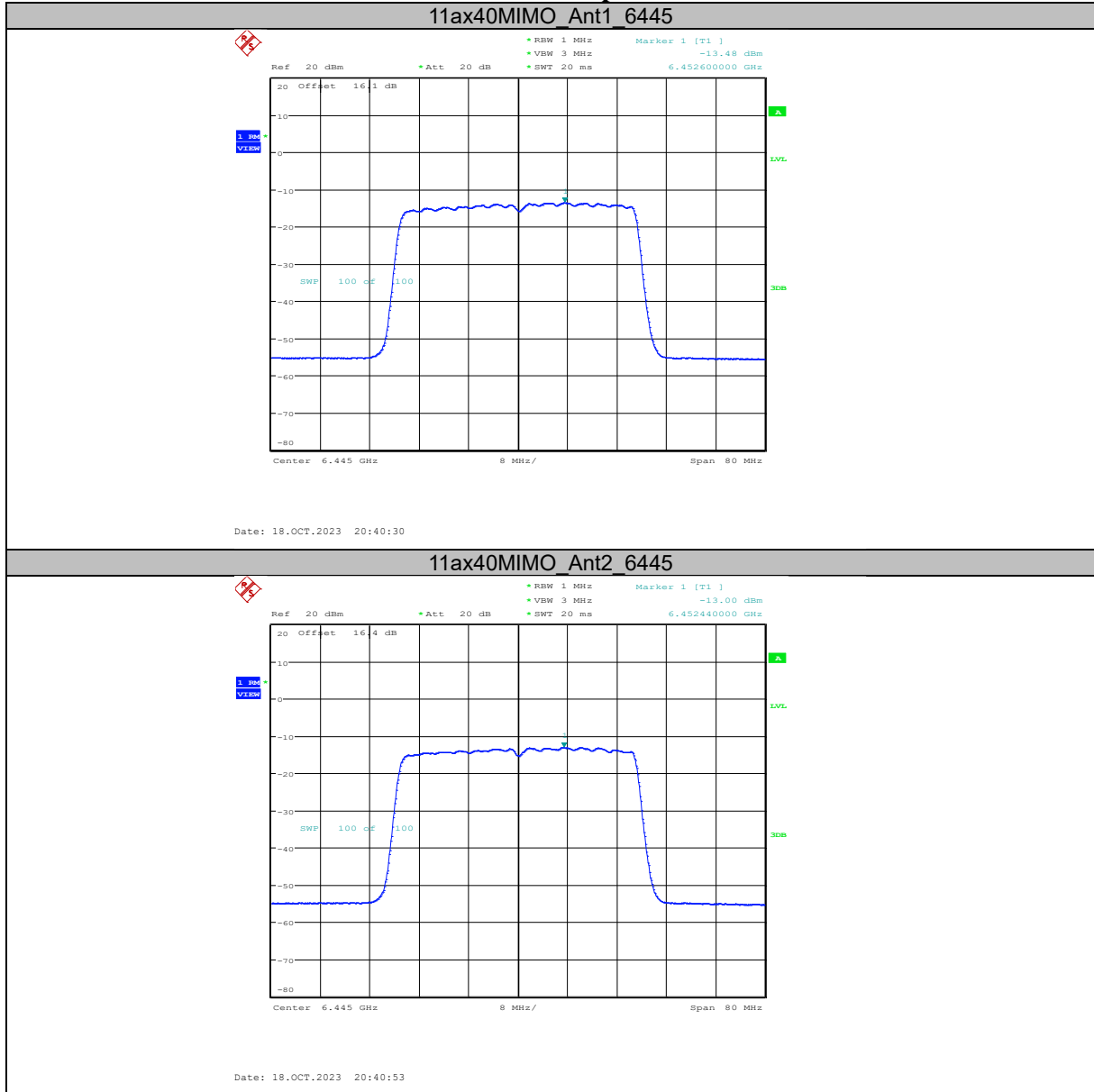
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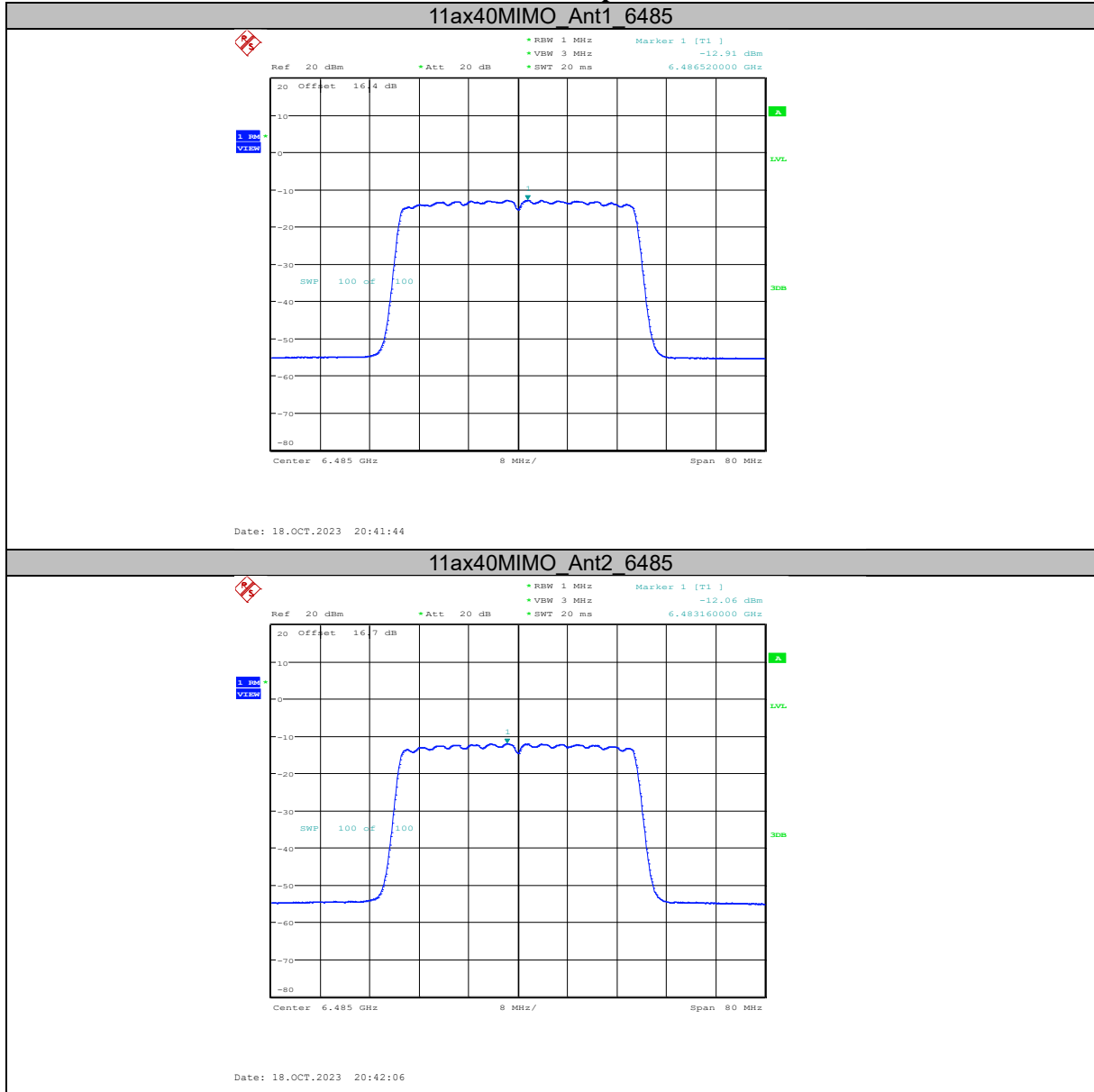
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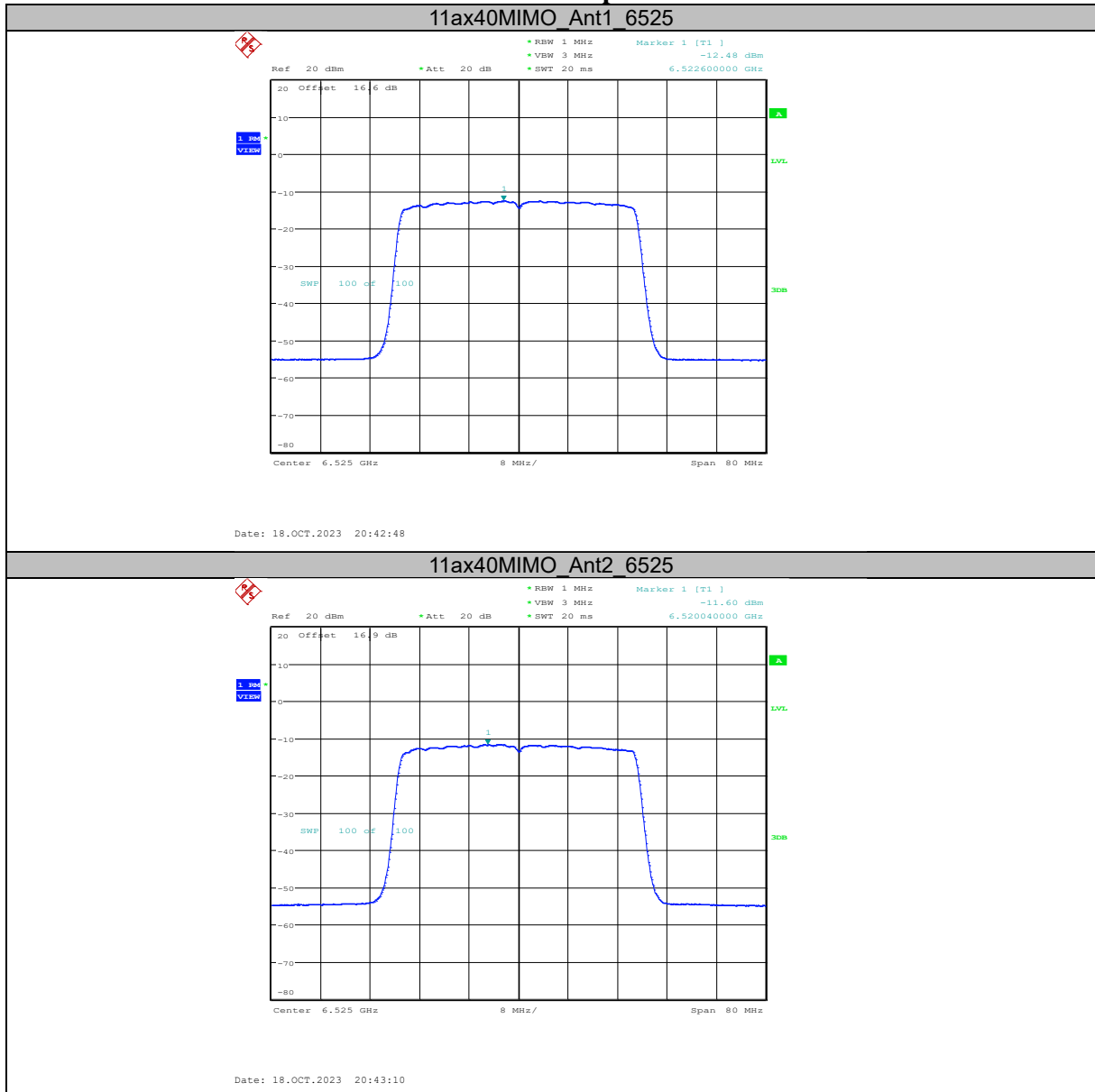
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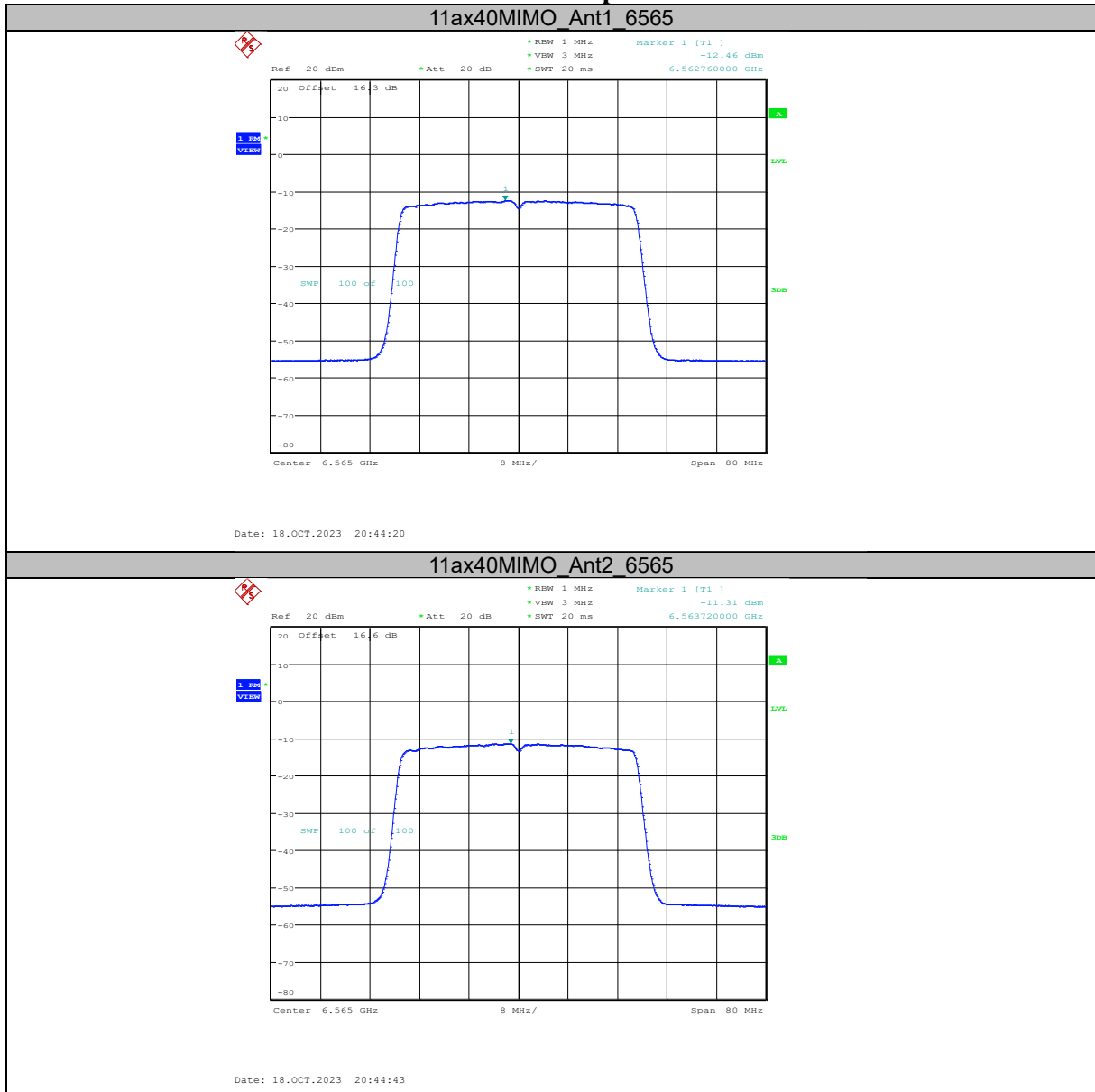
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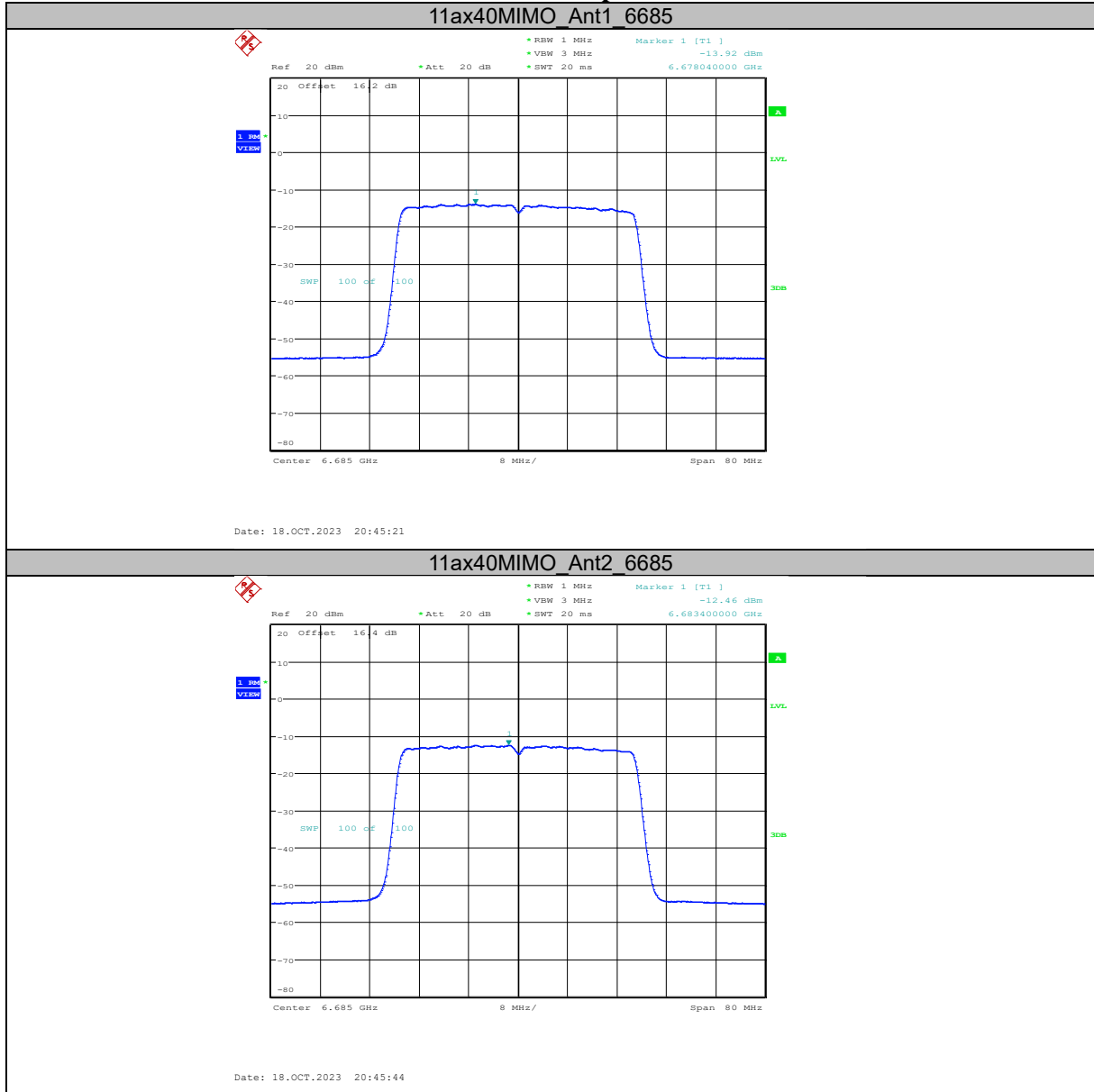
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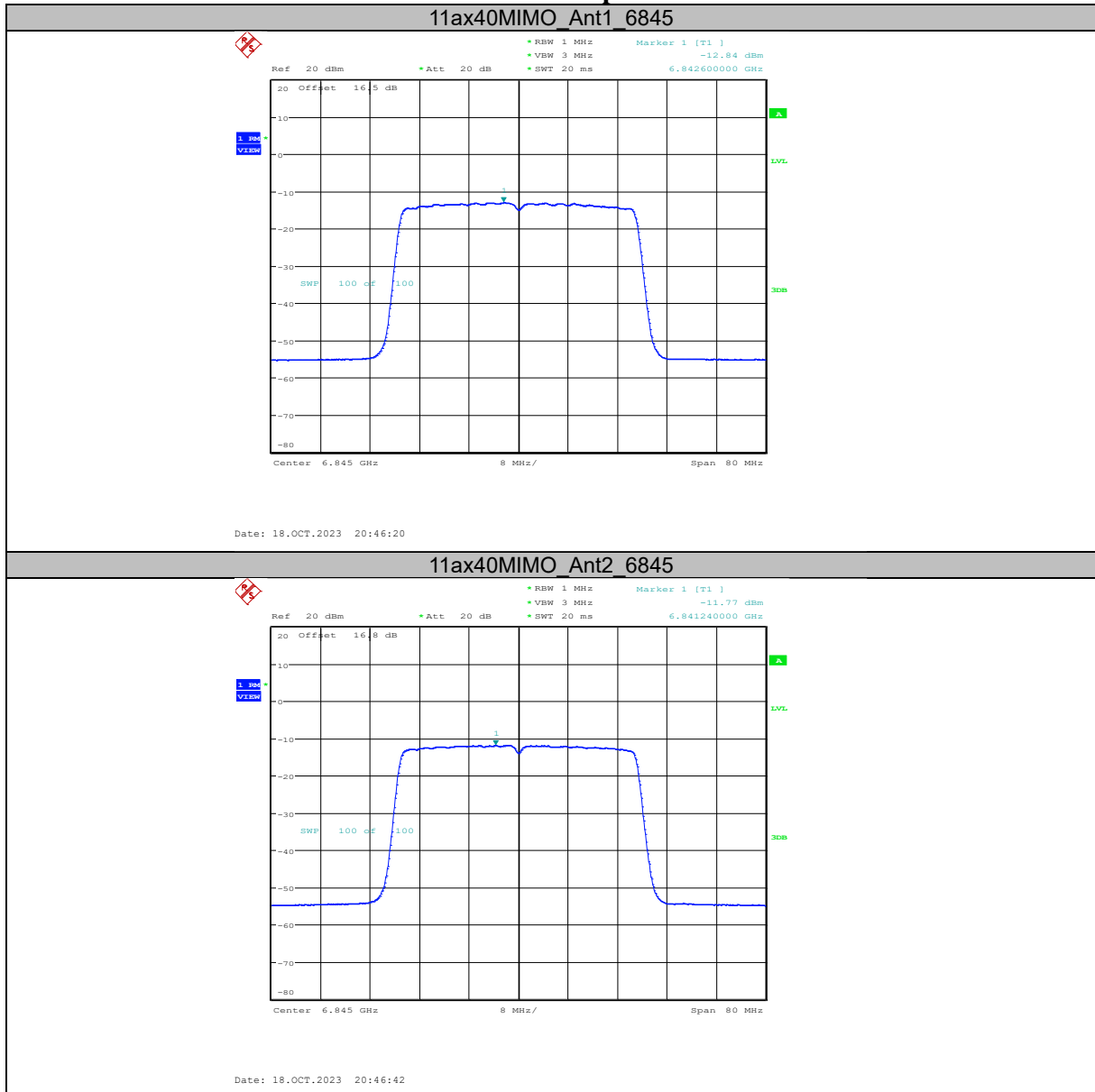
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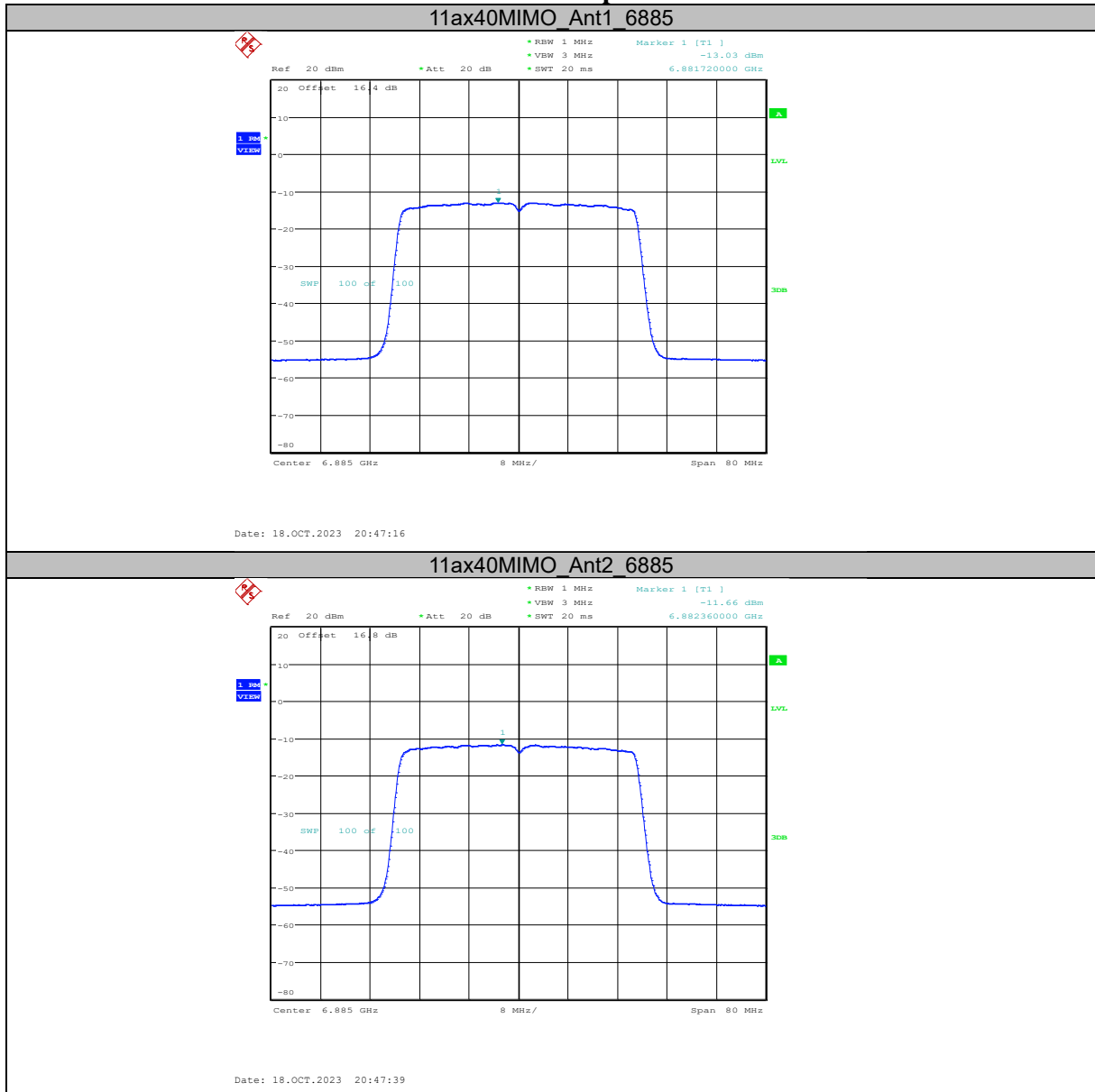
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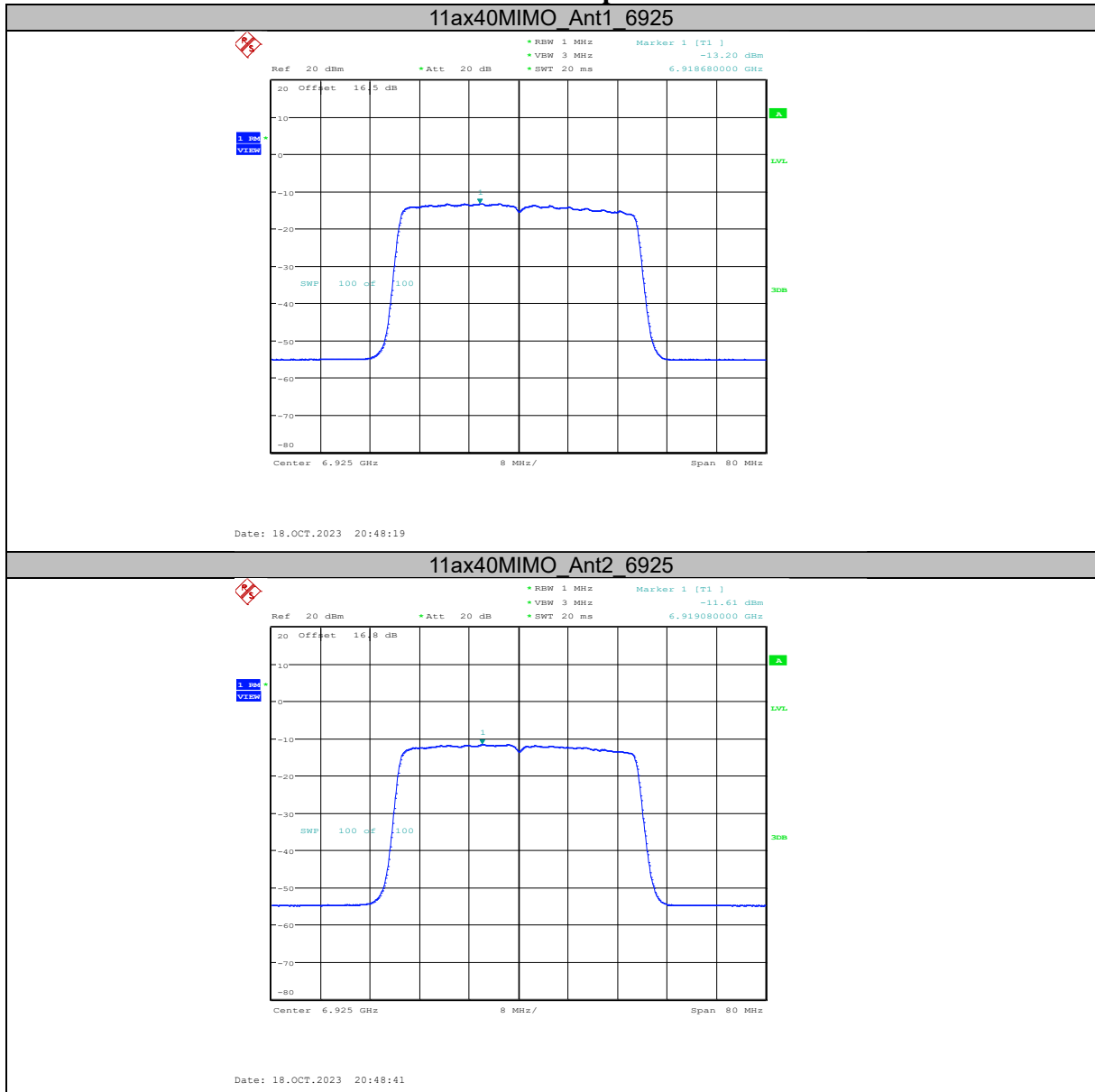
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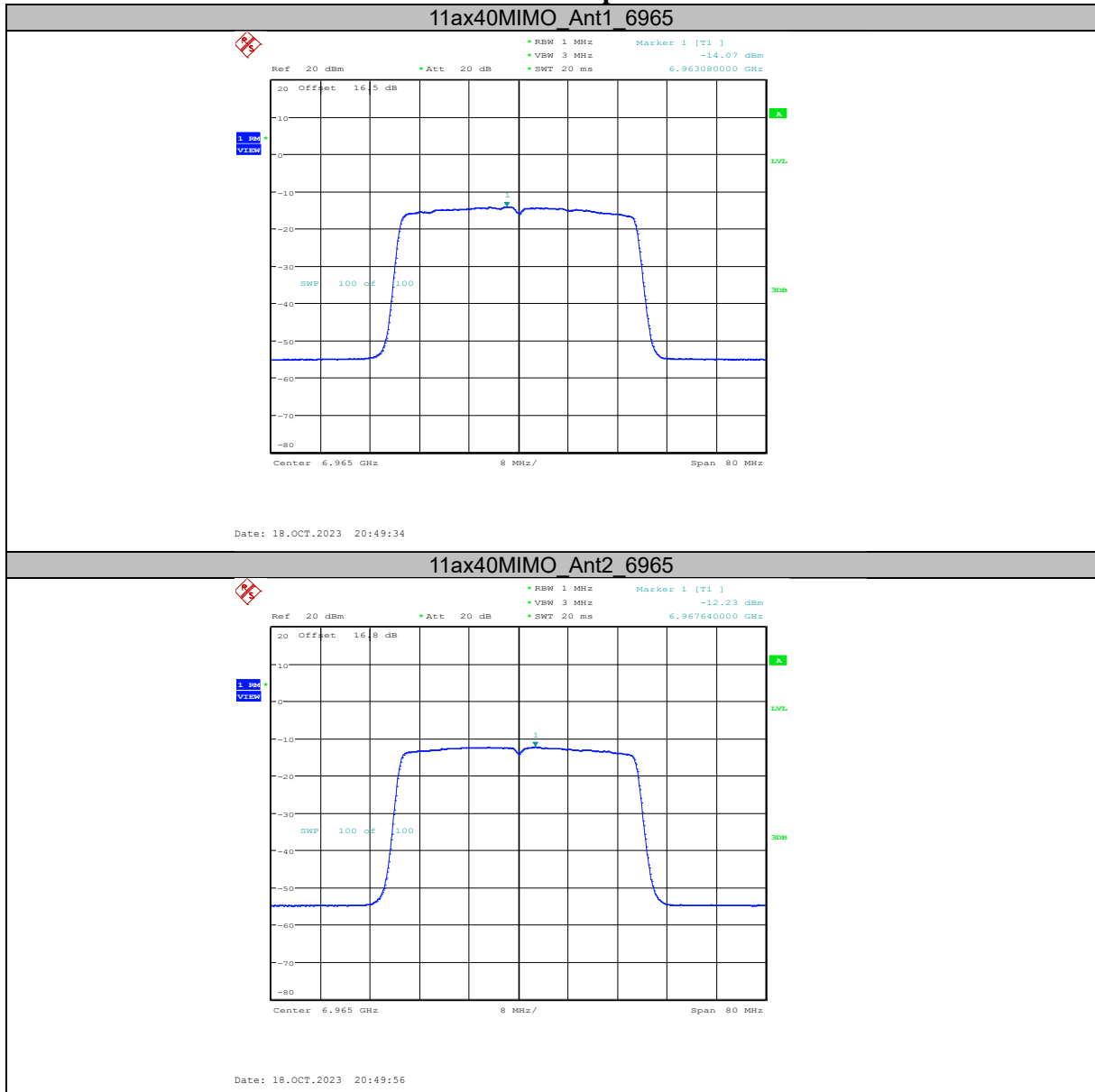
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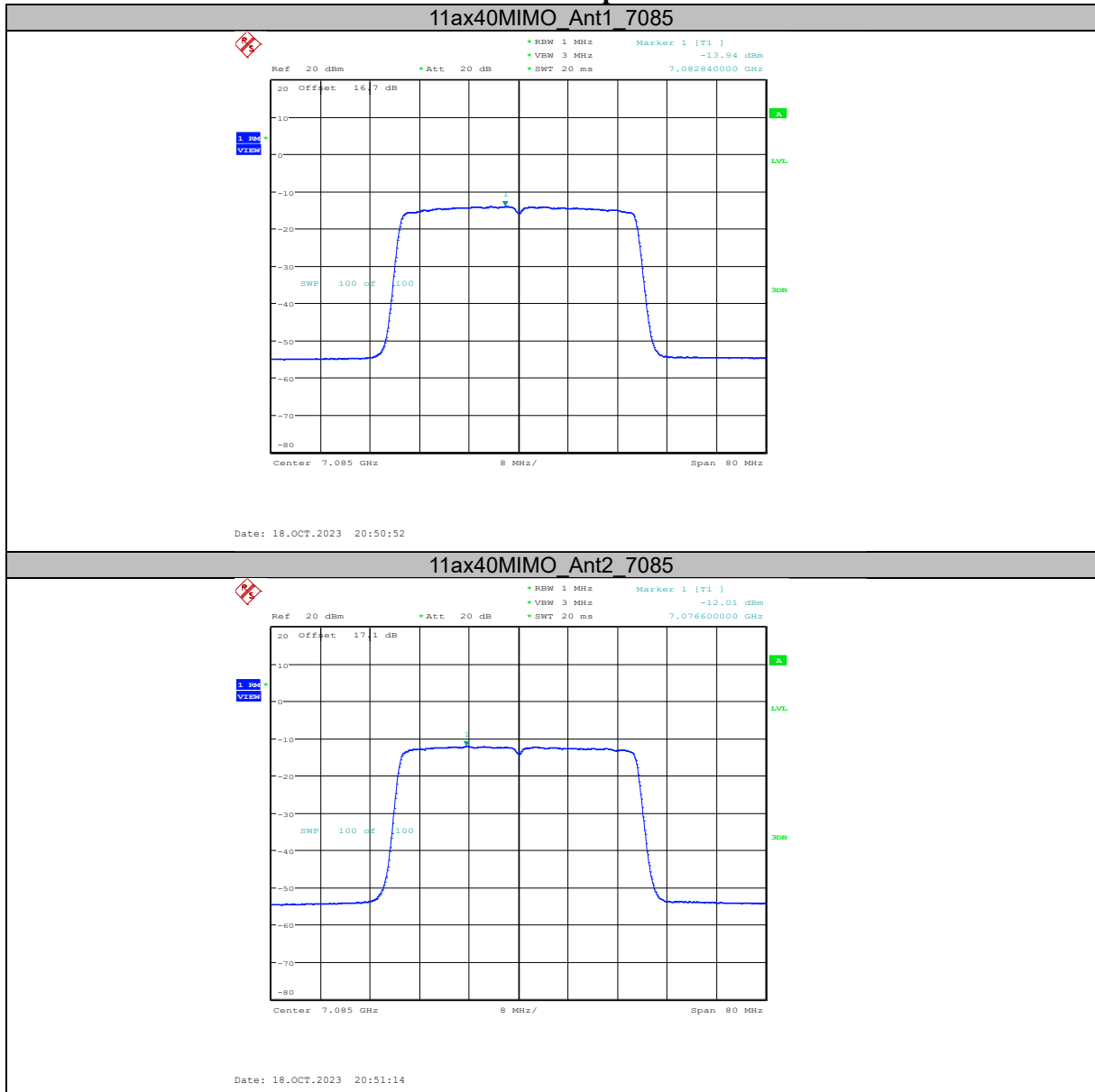
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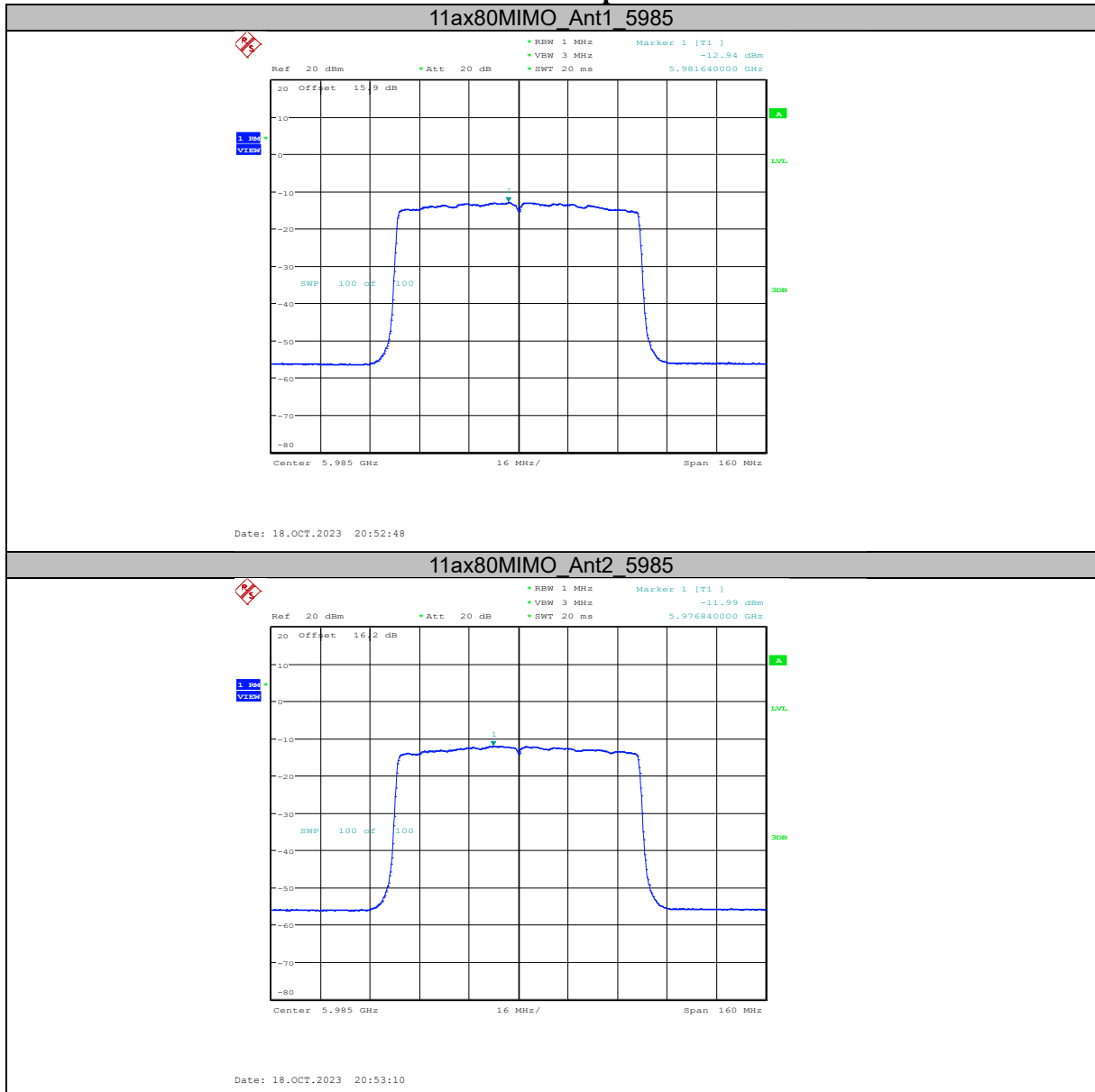
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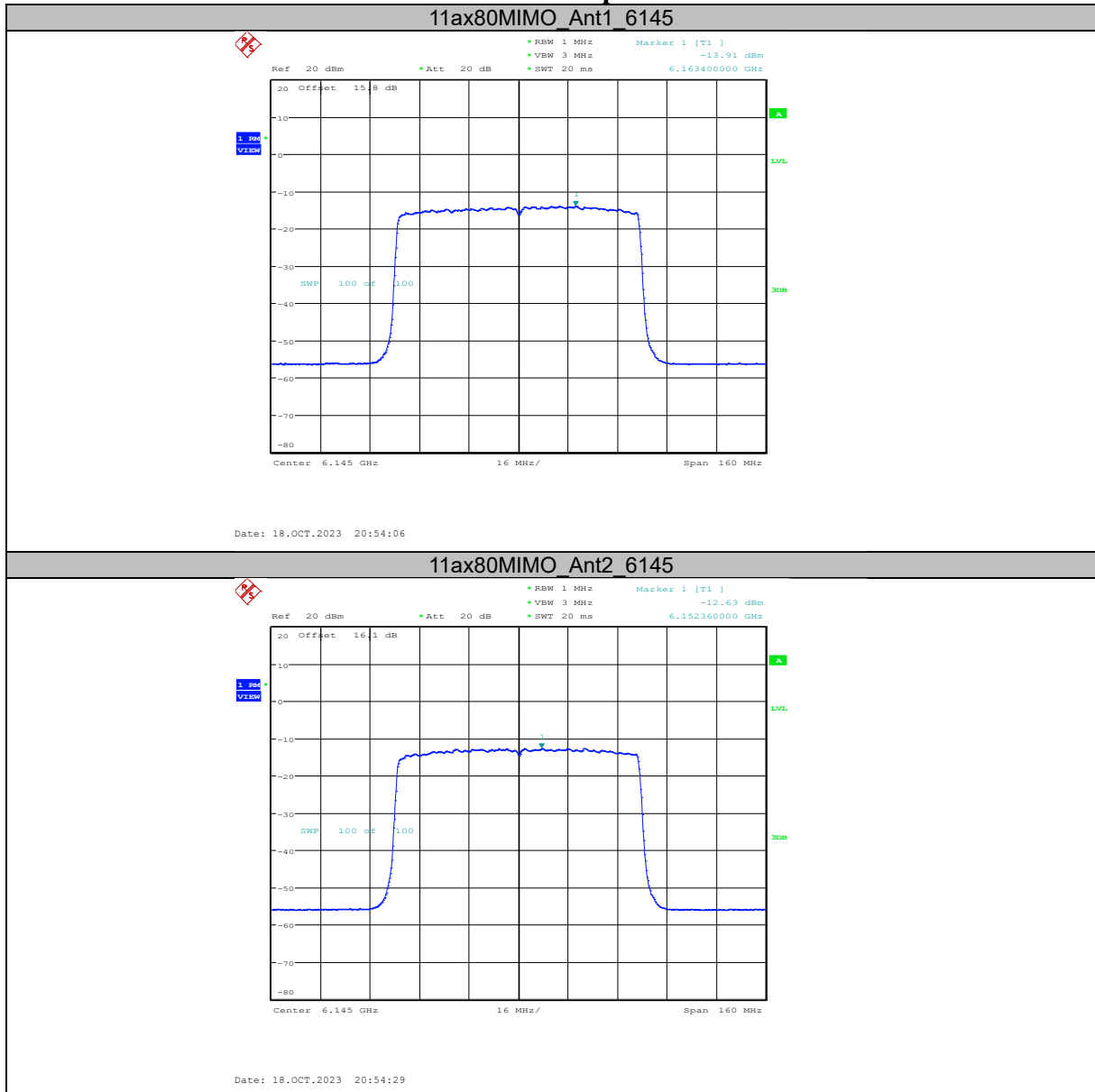
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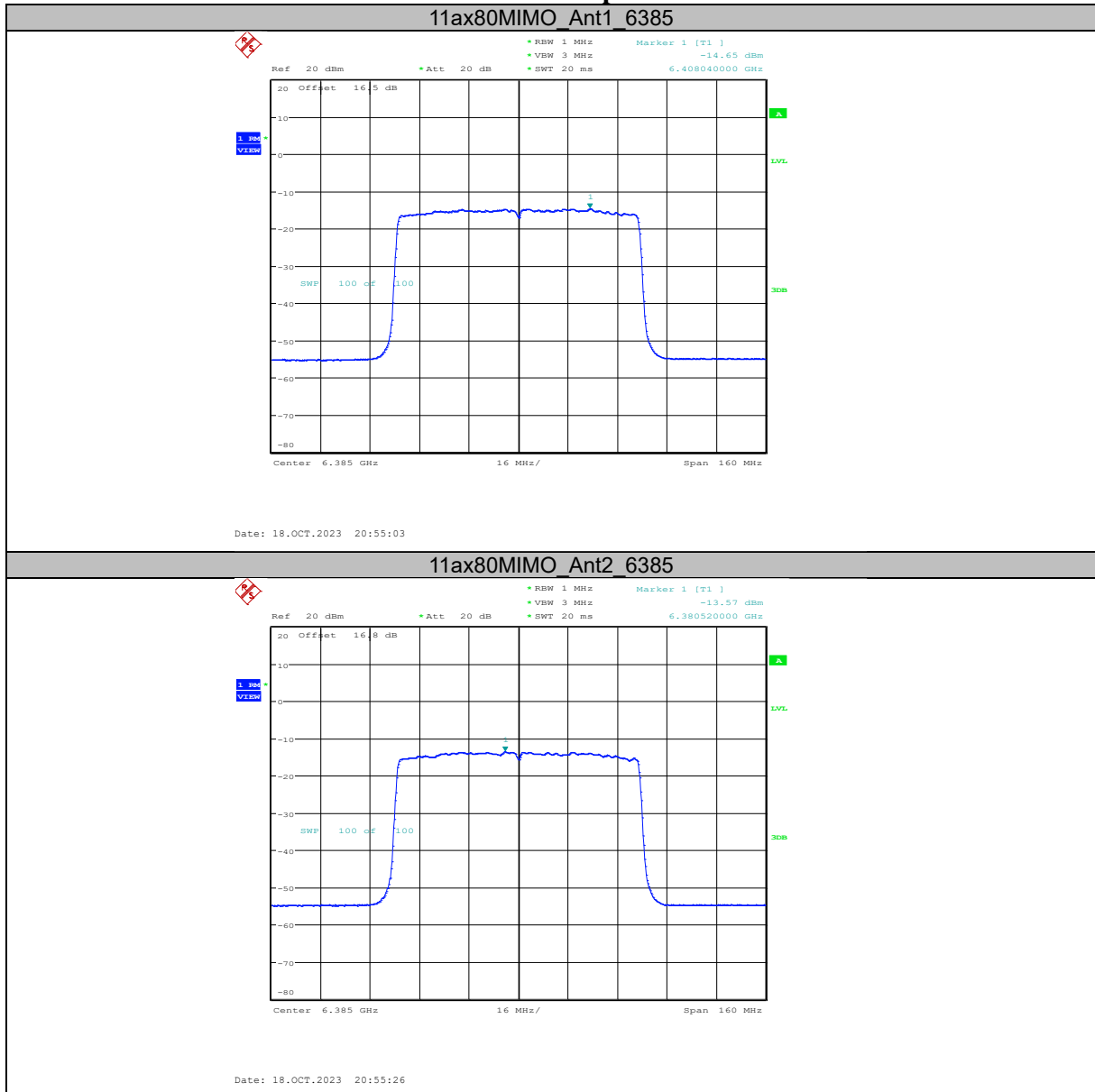
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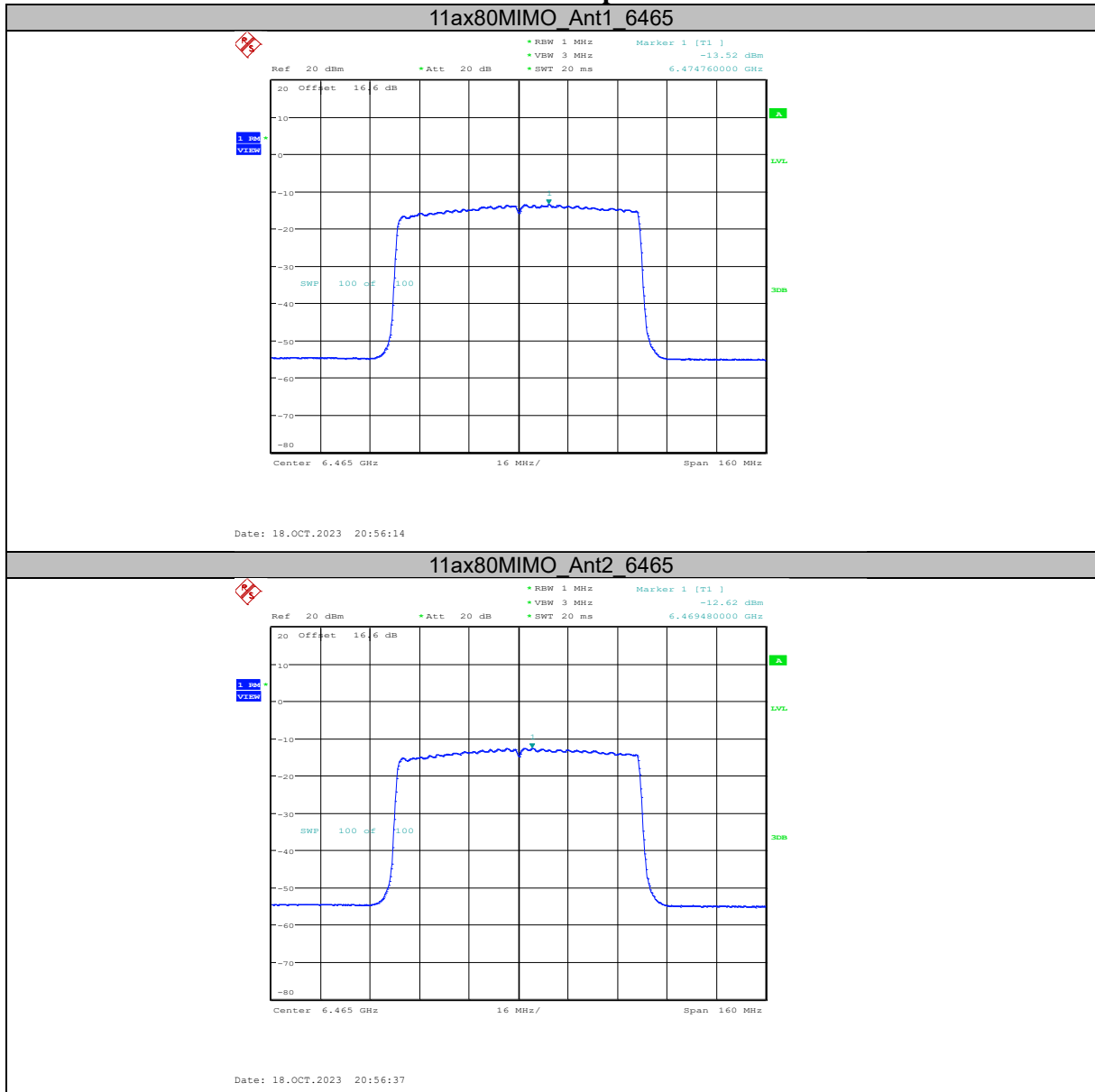
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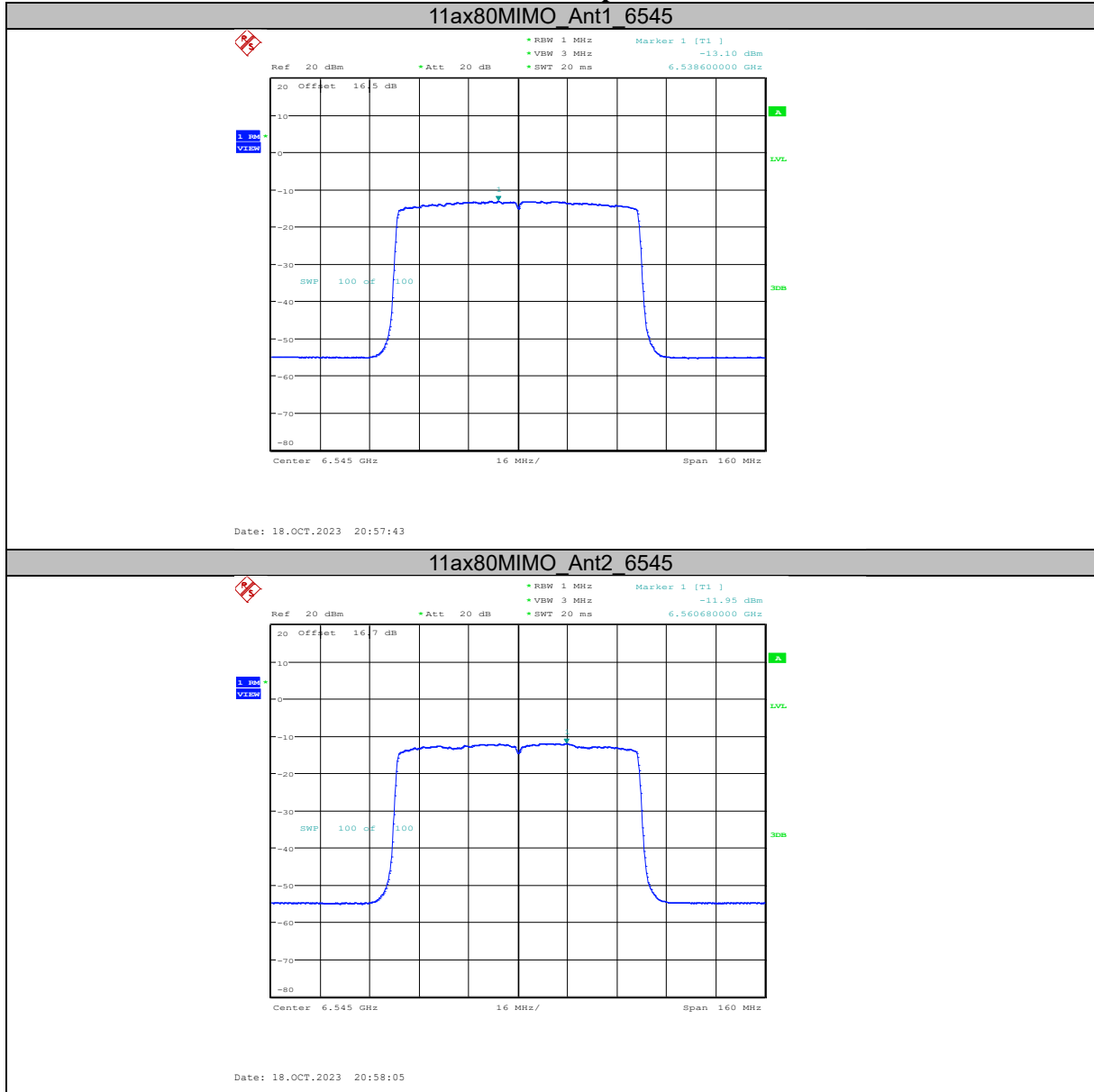
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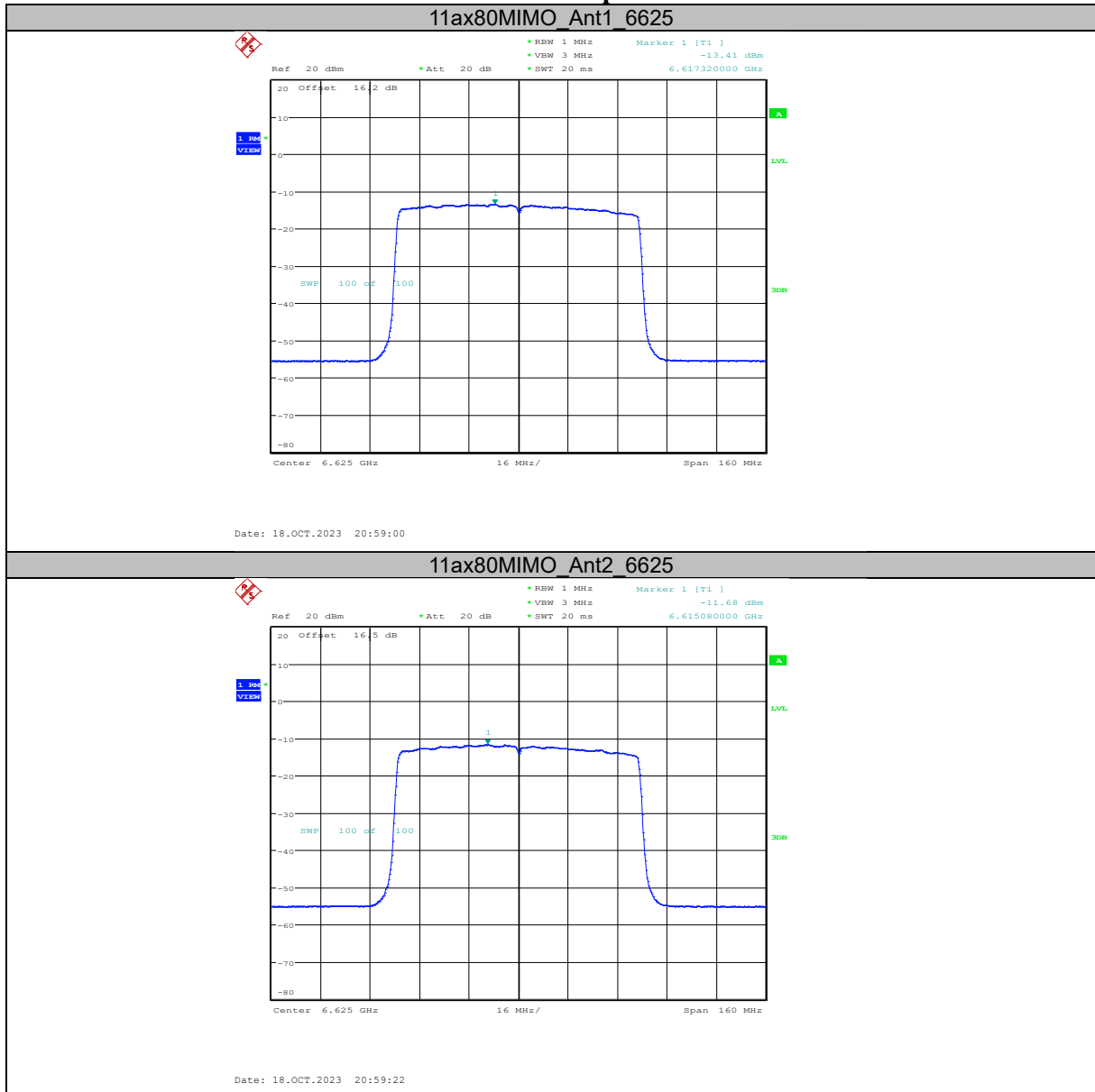
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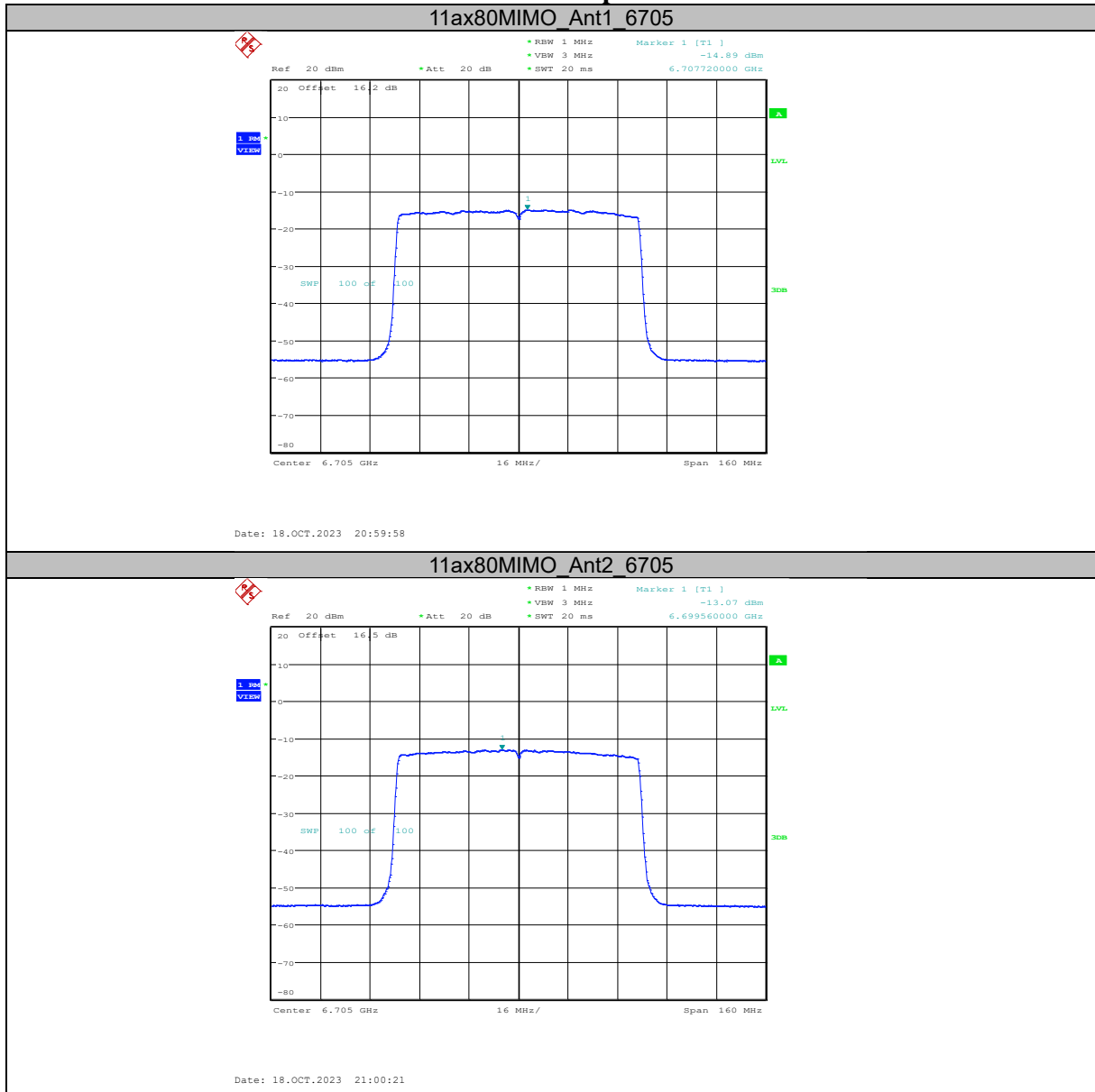
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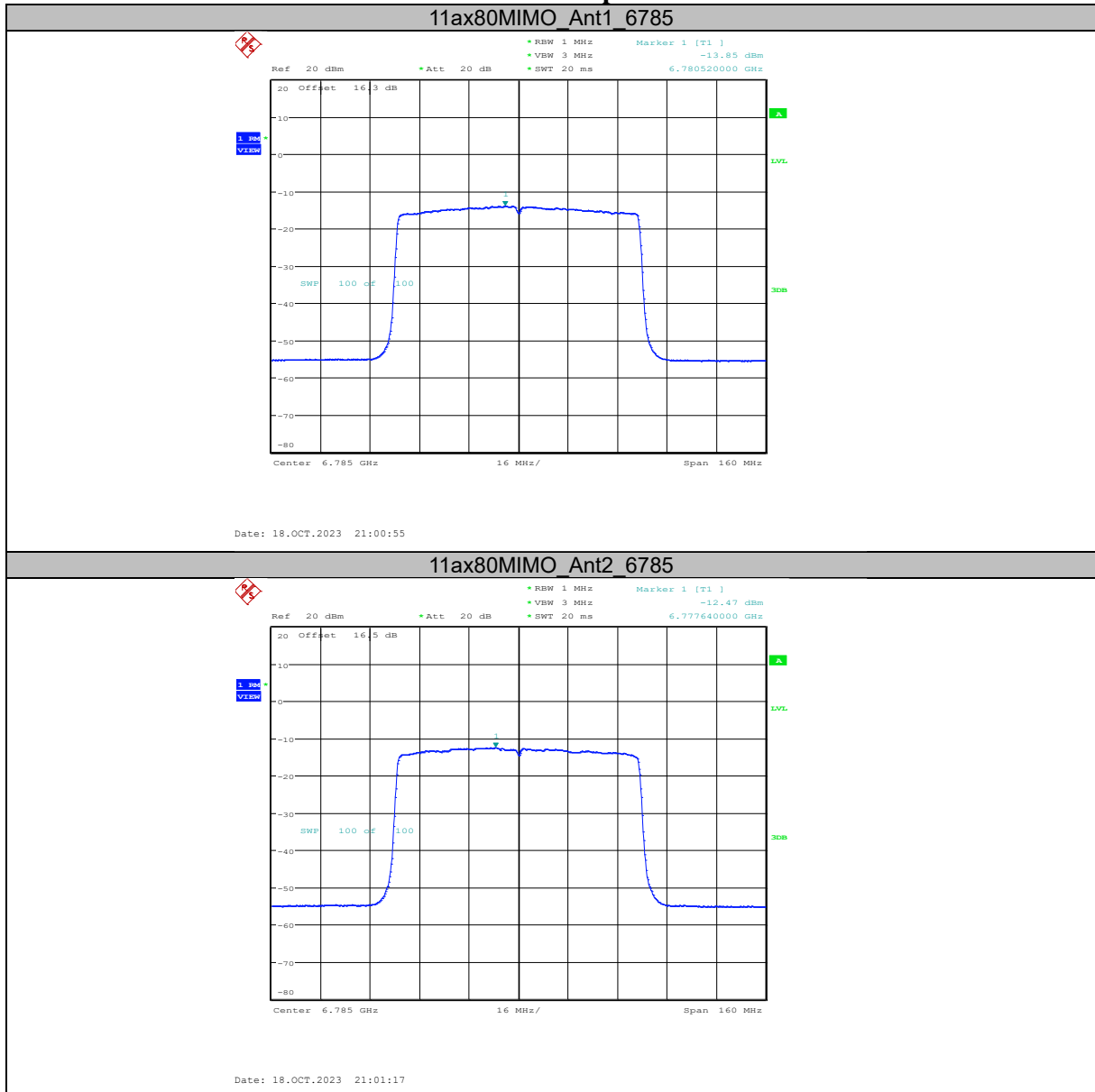
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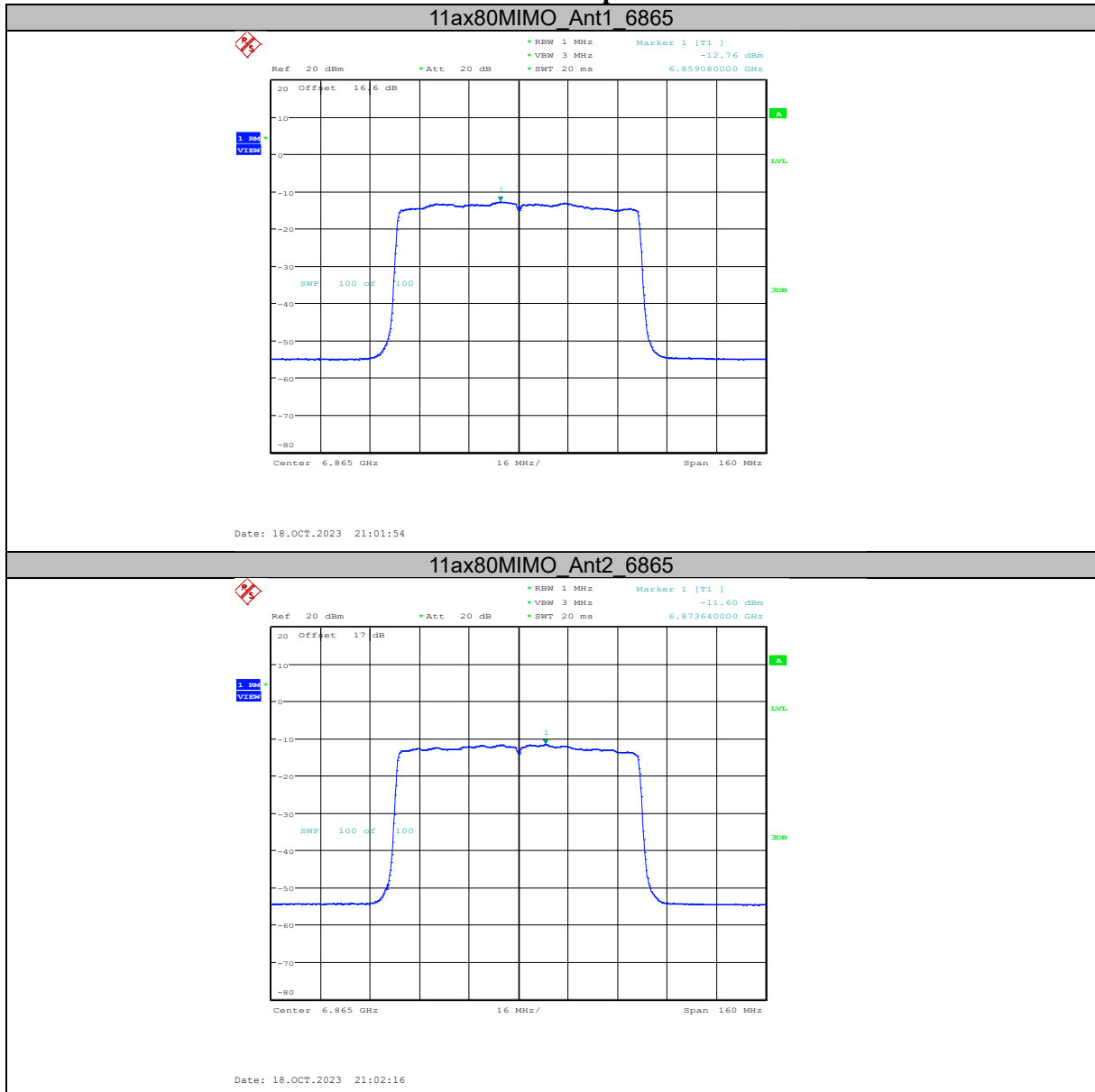
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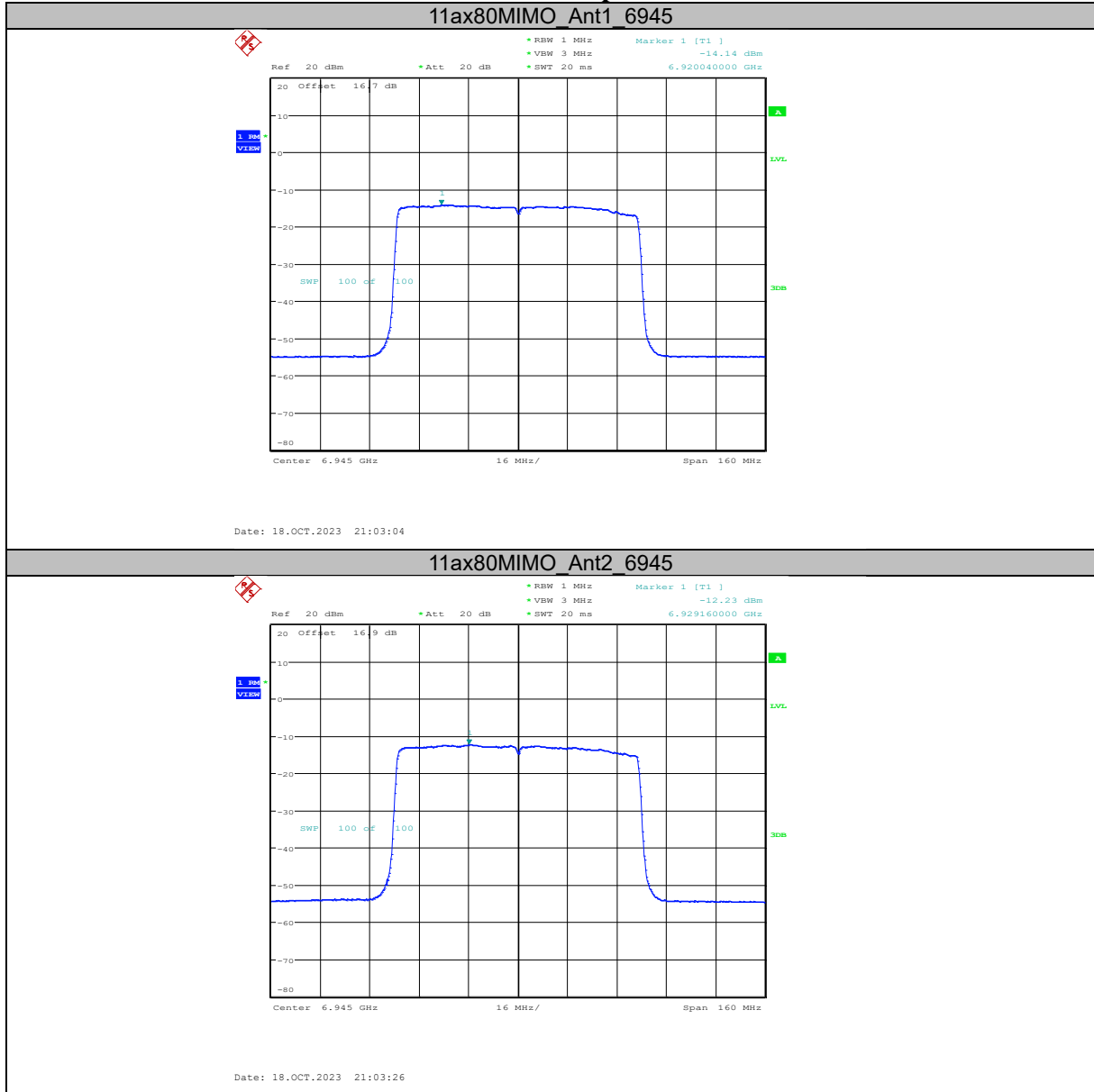
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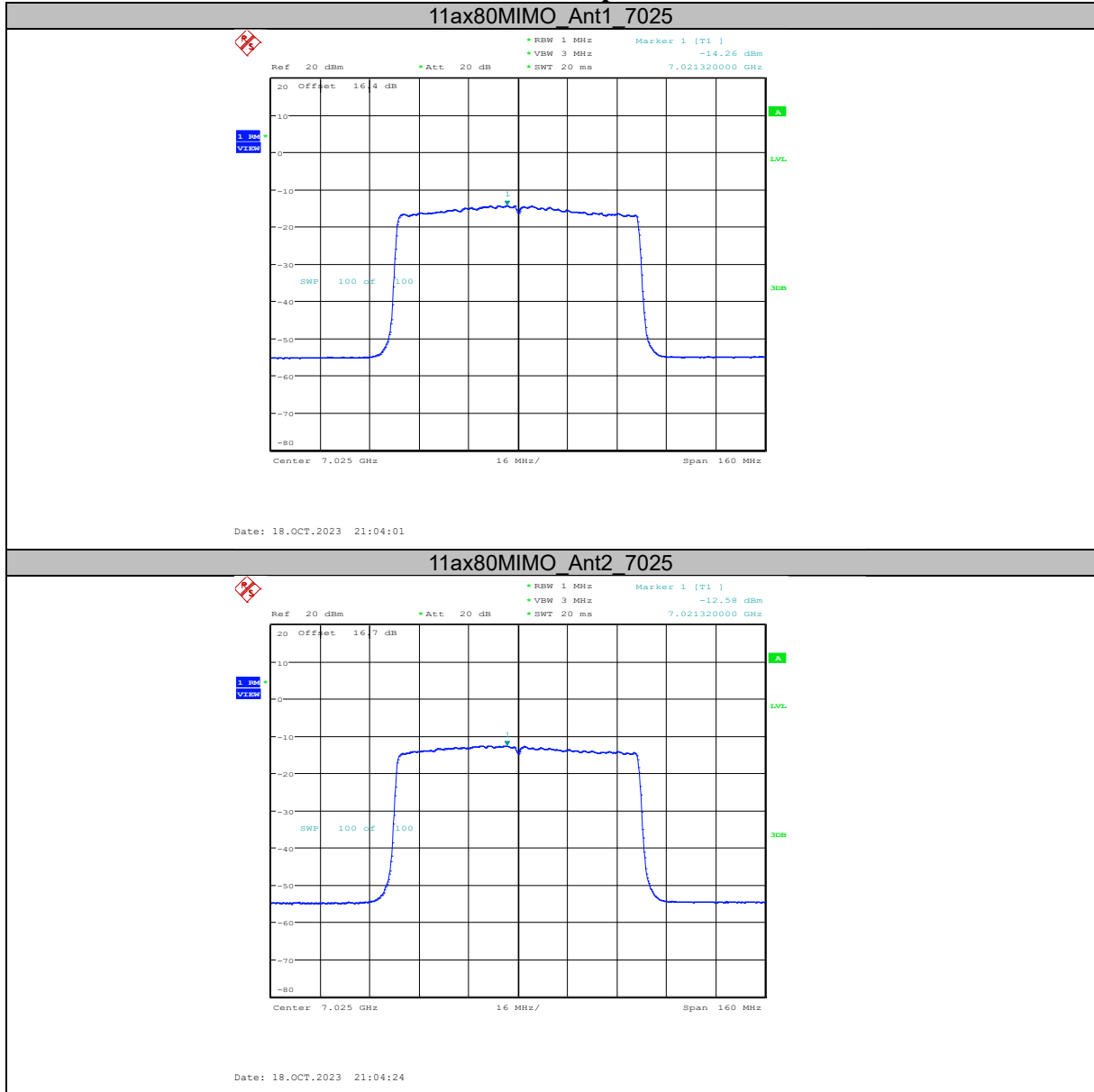
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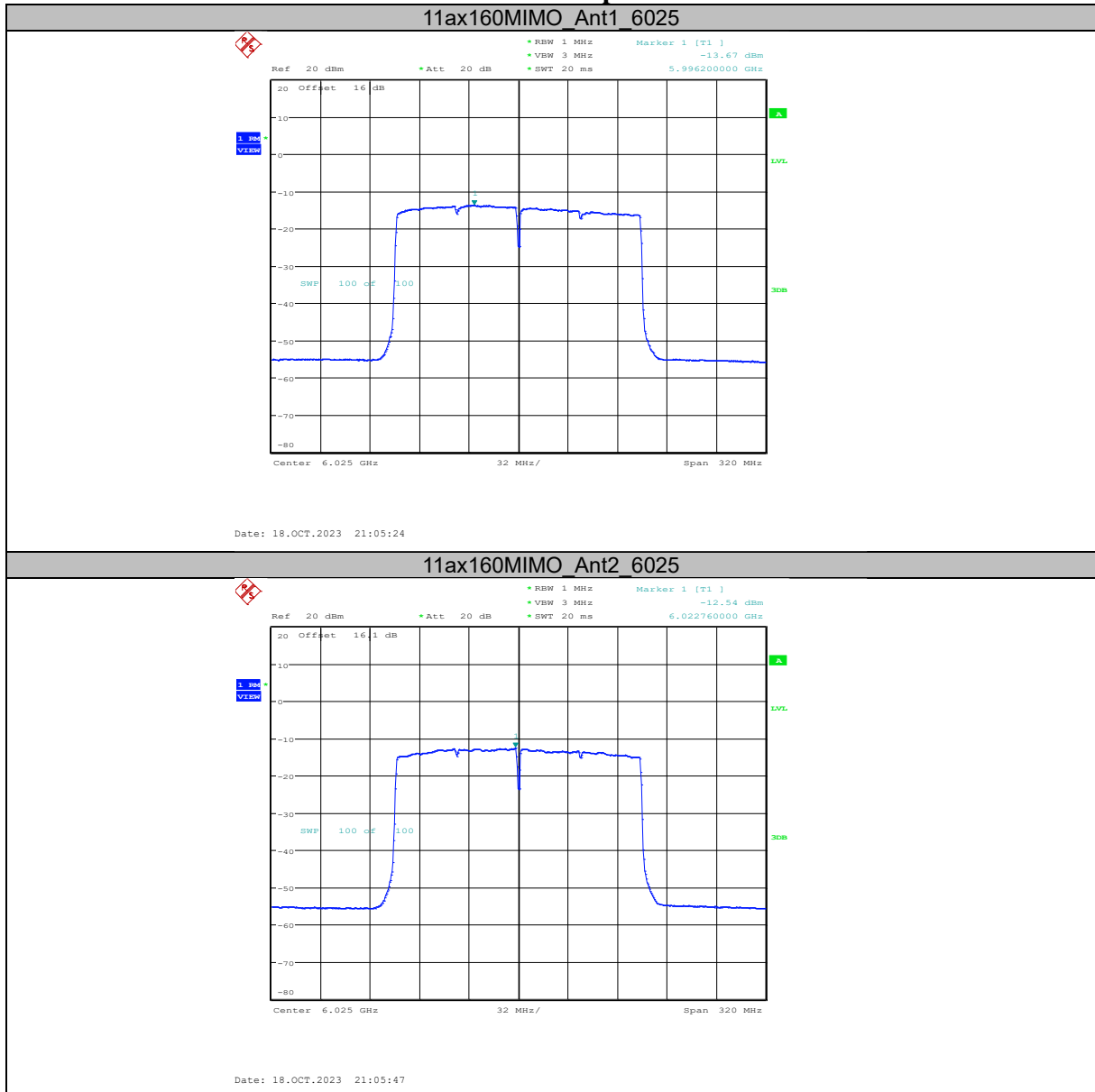
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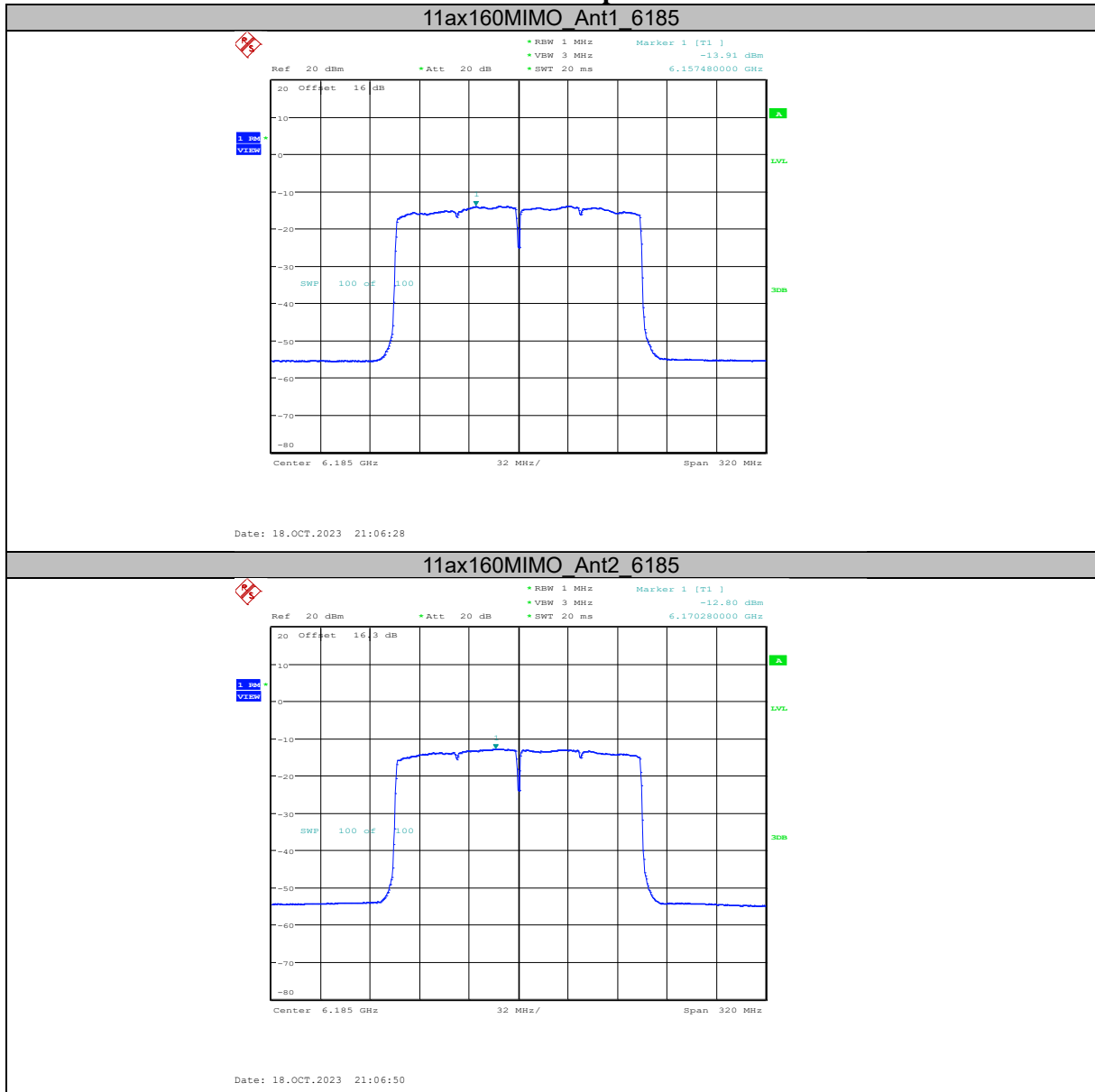
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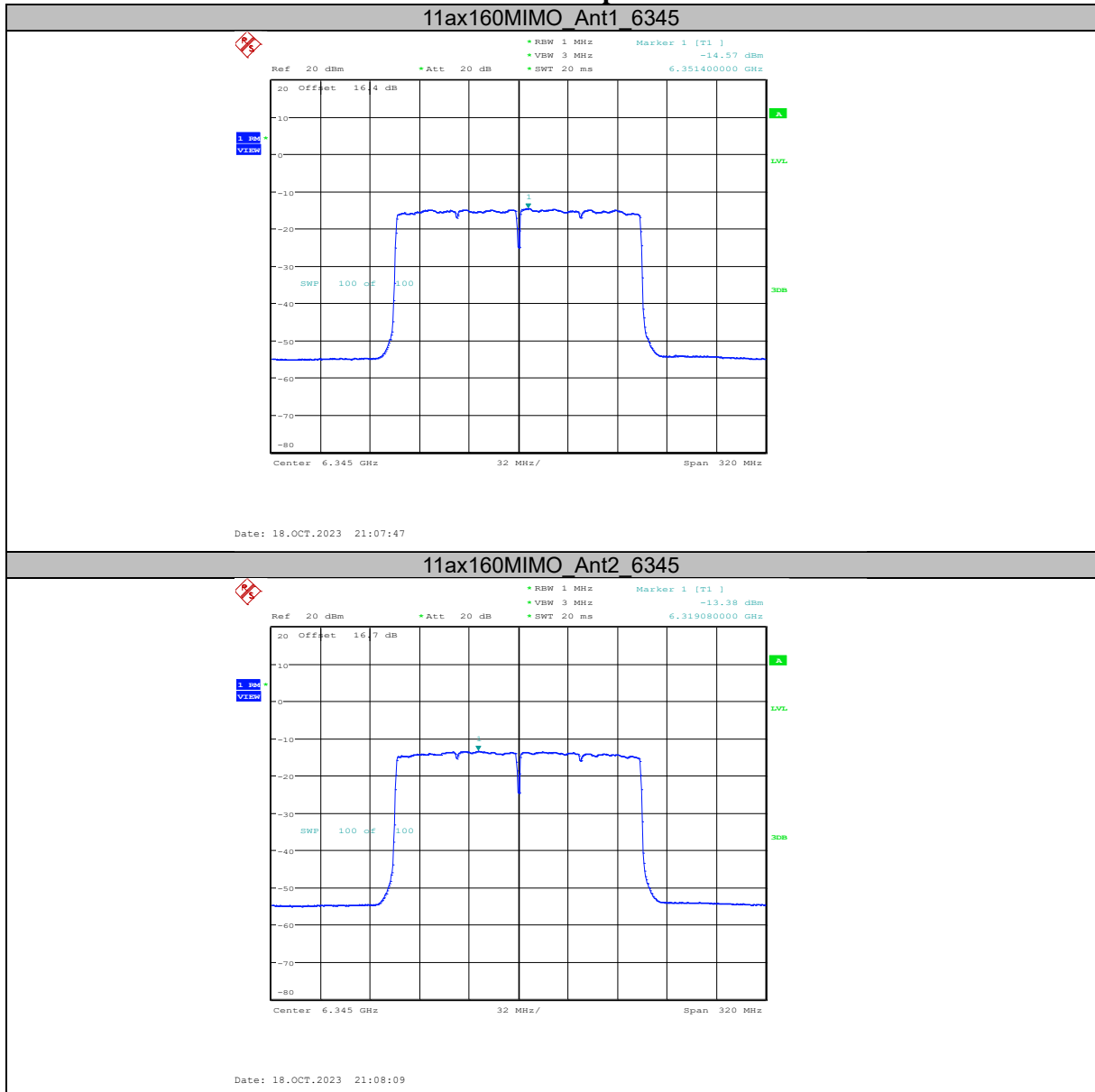
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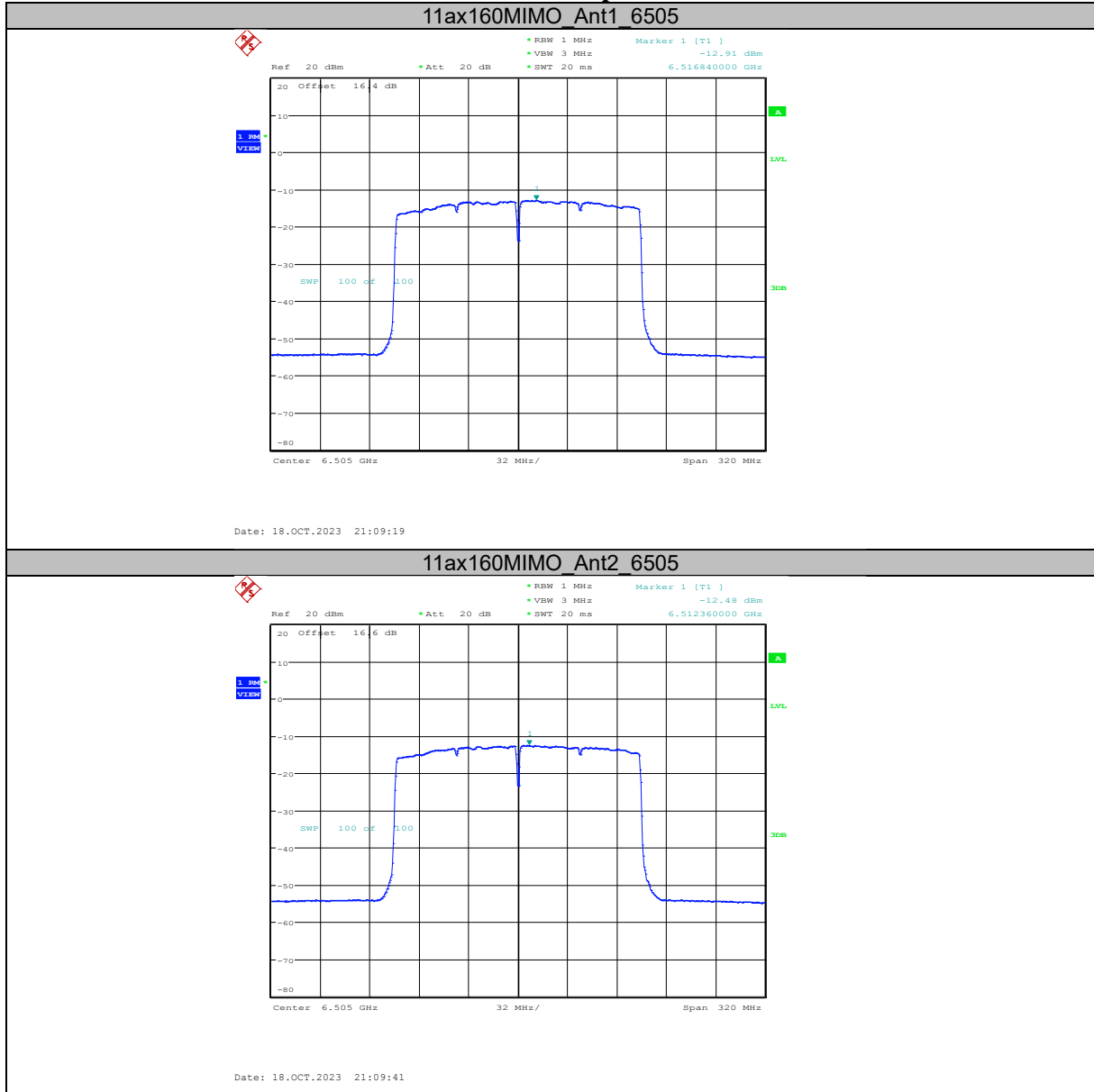
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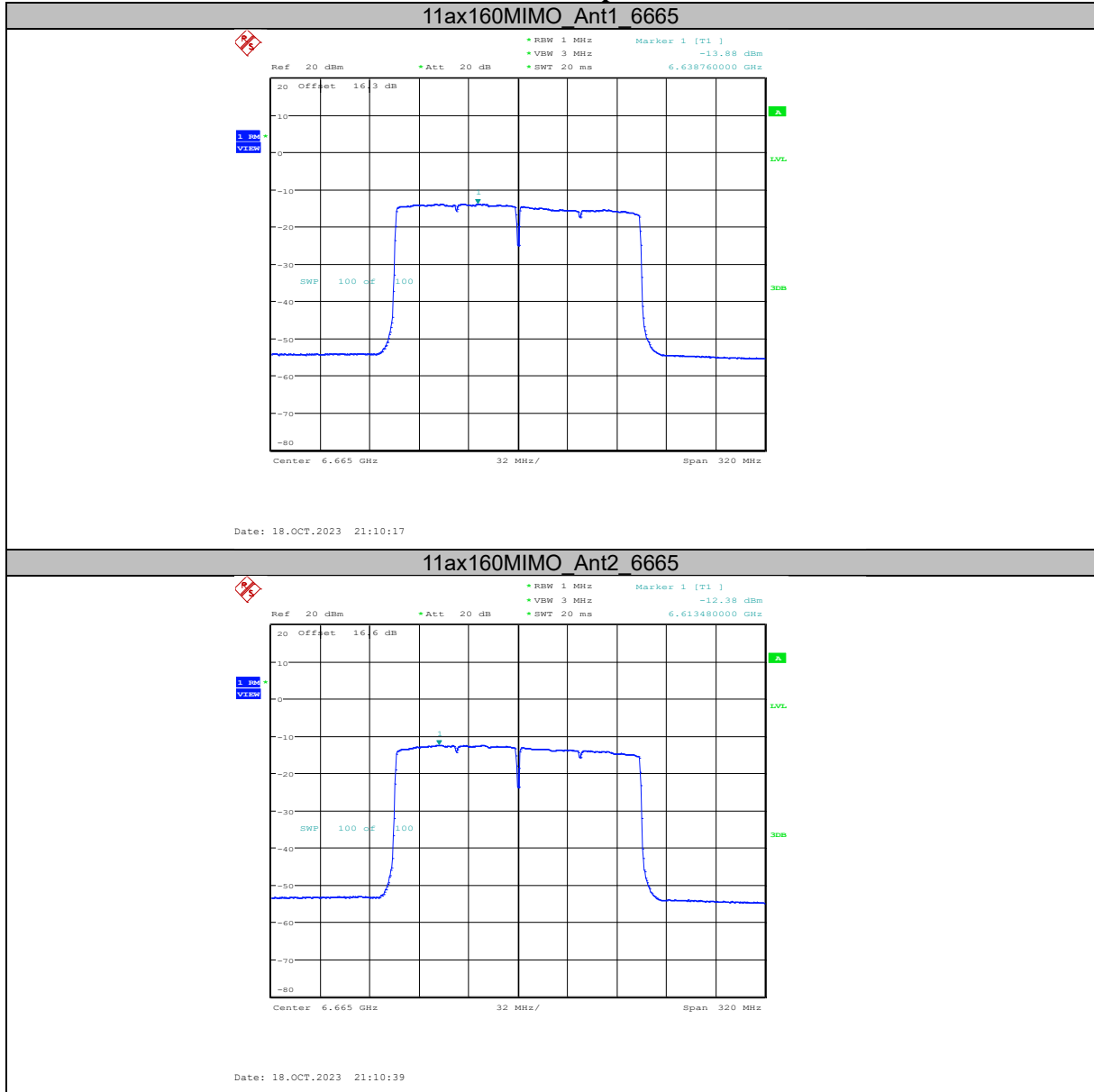
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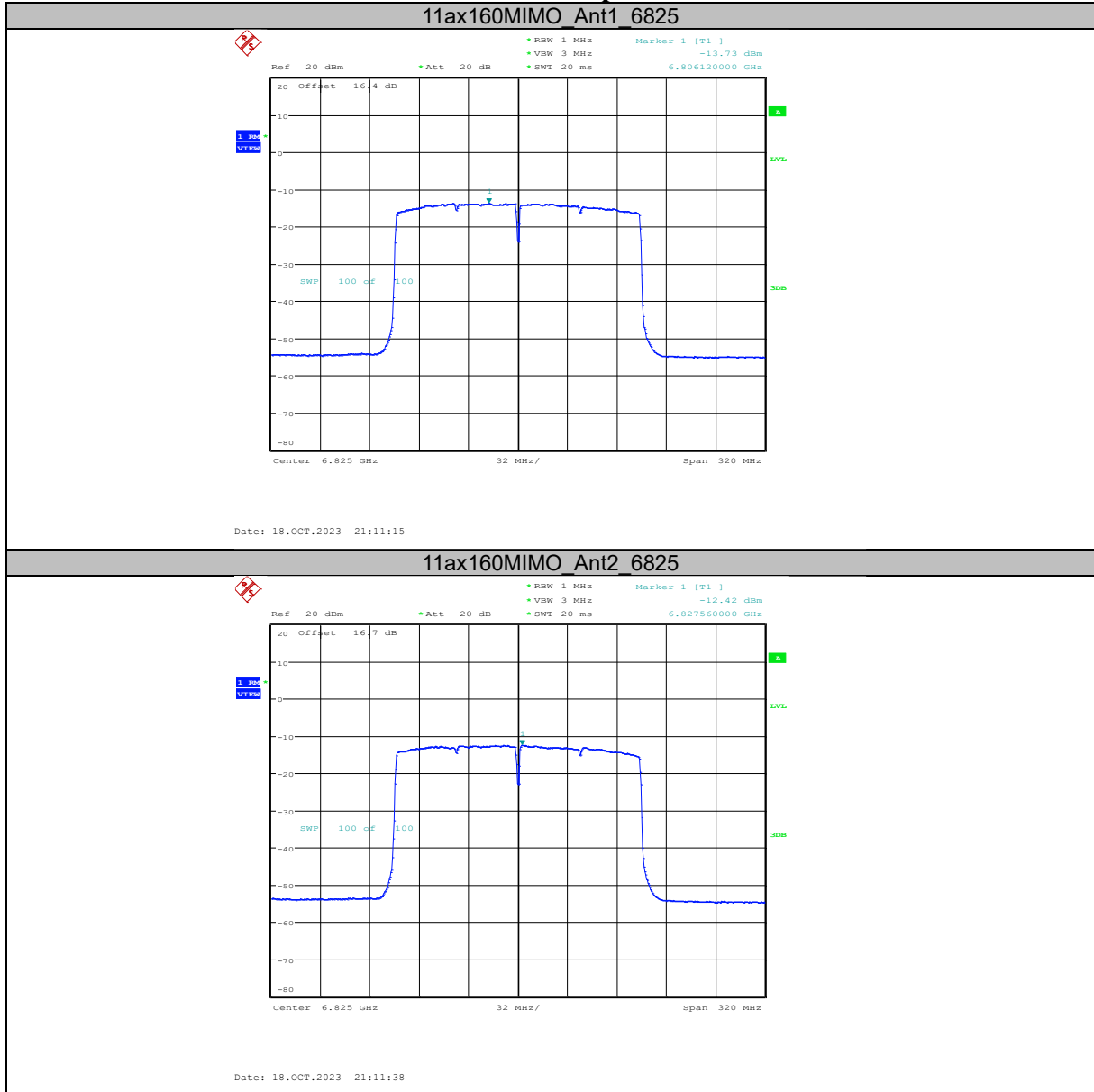
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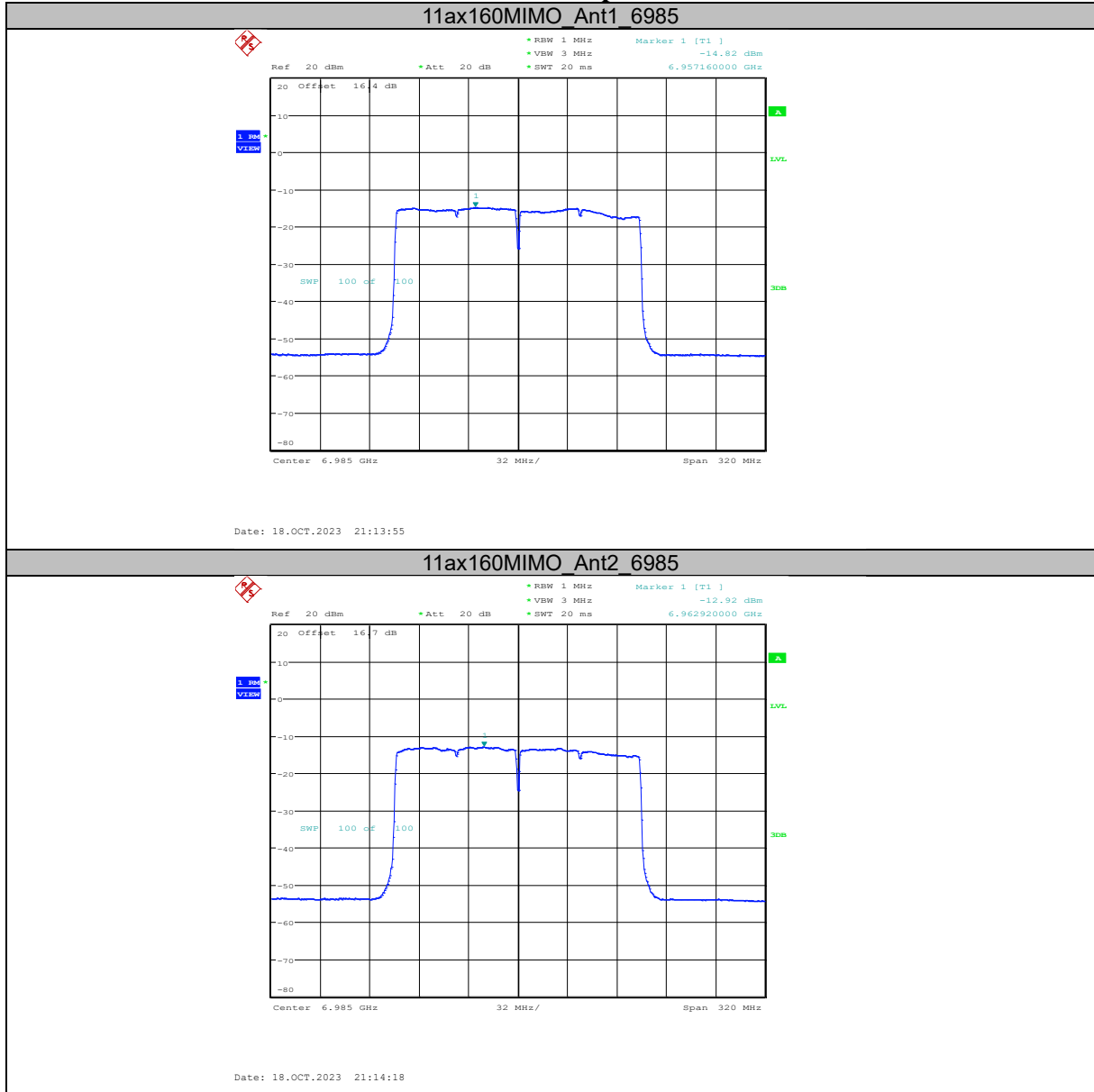
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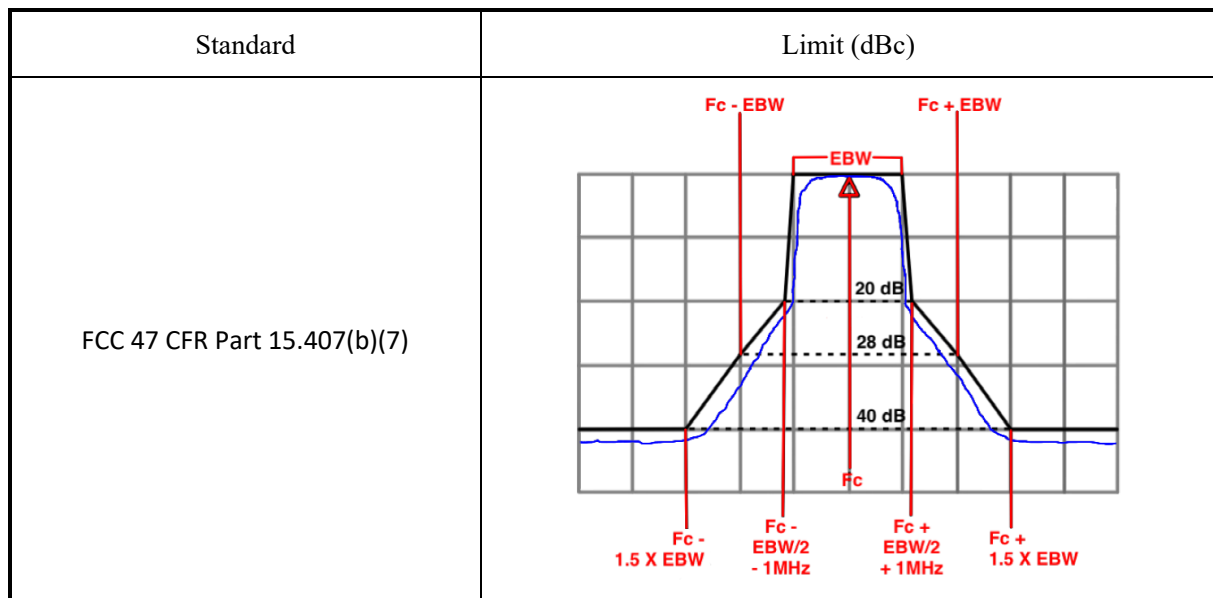
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6.5. In-Band Emissions

Specifications:	FCC 47 CFR Part 15.407(b)(7)
DUT Serial Number:	S3 S8 S11
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:



Measurement Uncertainty:

Measurement Uncertainty	$\pm 0.8\text{dB}$
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Test procedures:

The measurement method is made according to KDB 987594 D02 v01r01

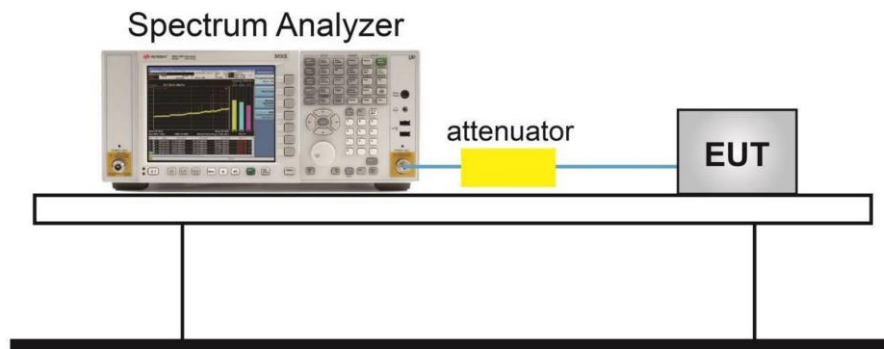
1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSIC63.10-2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSIC63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.

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- c) Set $VBW \geq 3 \times RBW$
 - d) Number of points in sweep $\geq [2 \times \text{Xspan} / RBW]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (1.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
 6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
 7. Adjust the span to encompass the entire mask as necessary.
 8. Clear trace.
 9. Trace average at least 100 traces in power averaging (rms) mode.
 10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

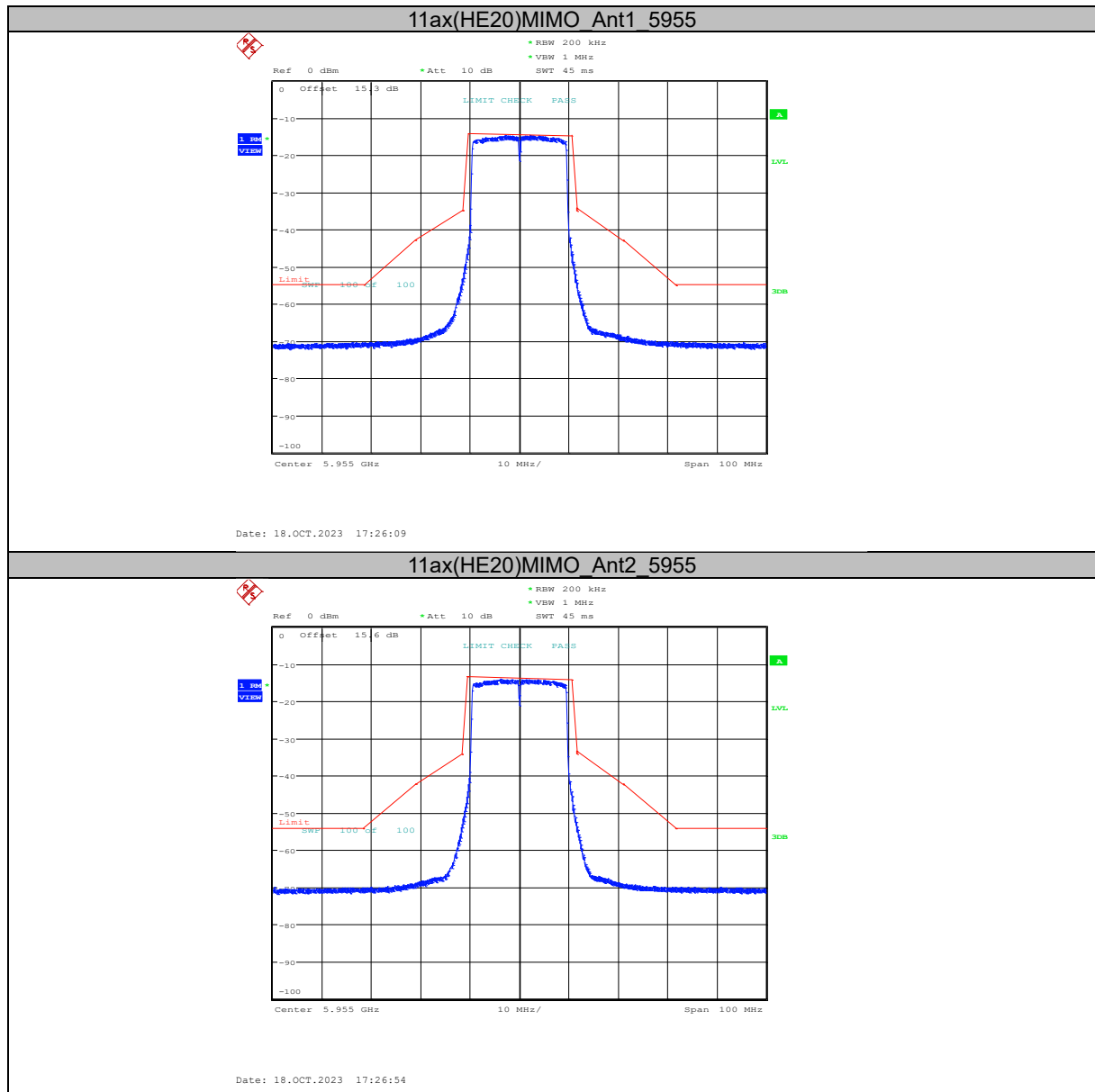
Test setup



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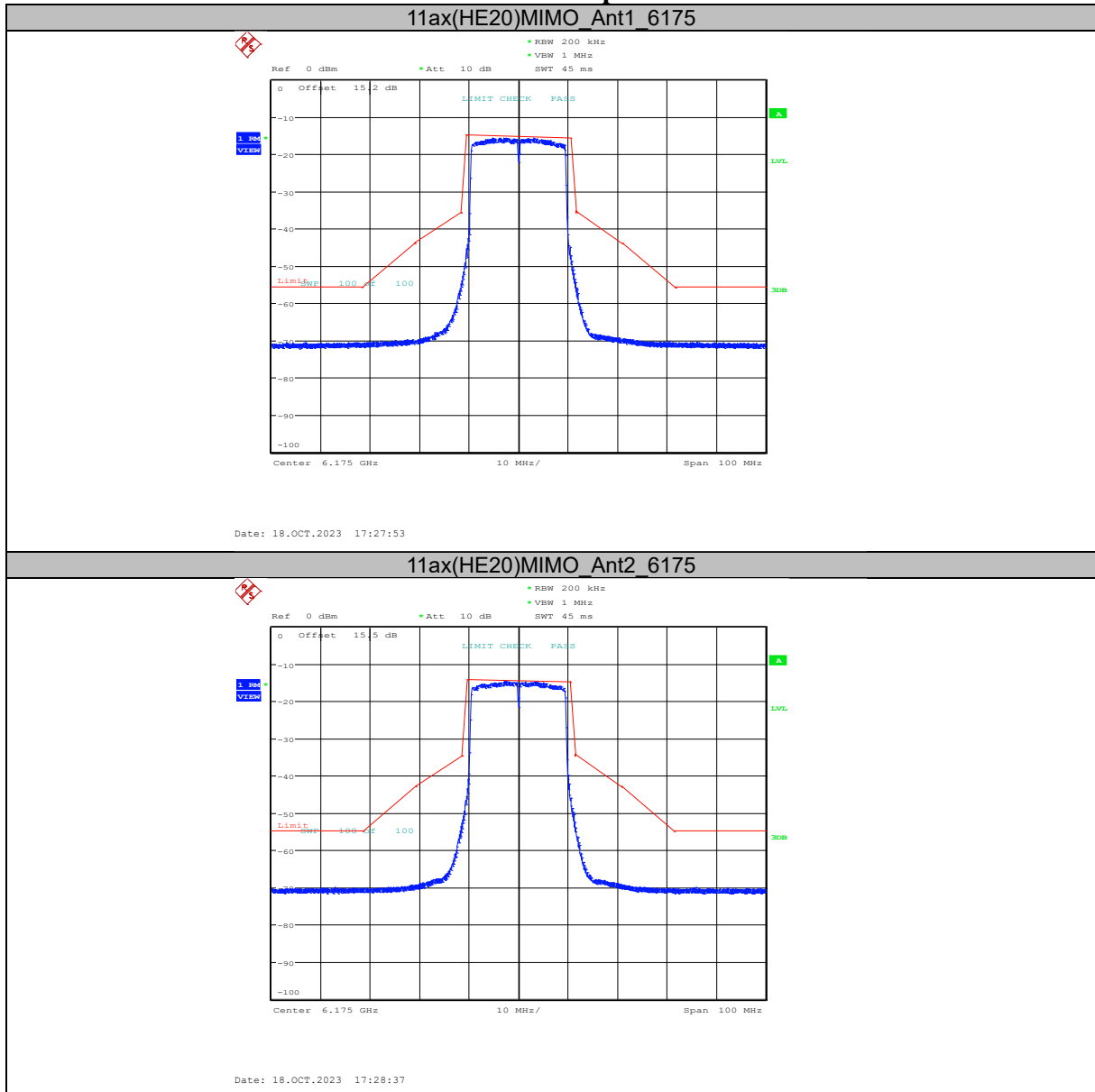
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Measurement results:

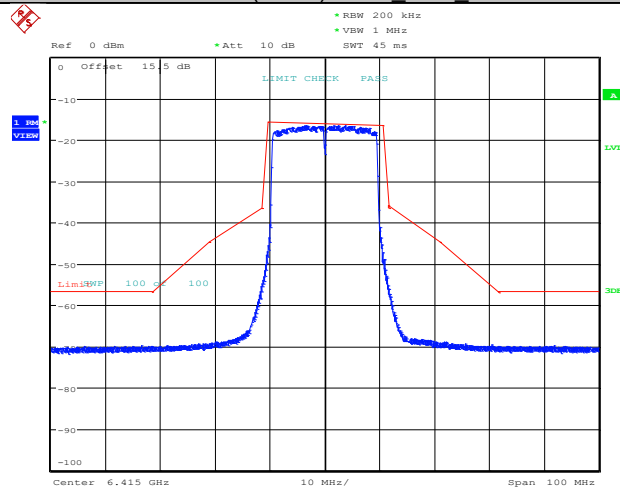


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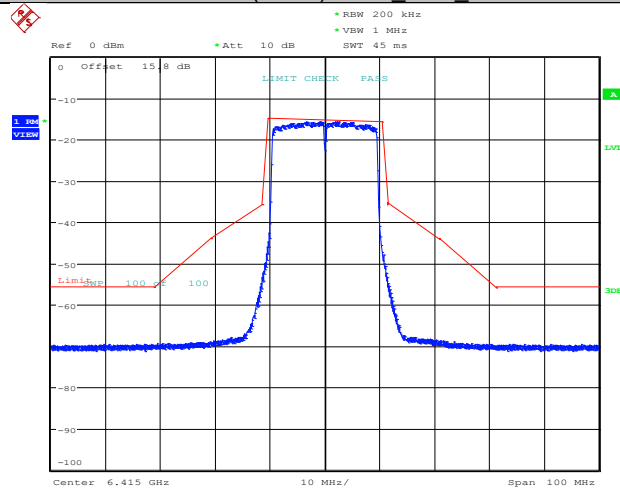


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Date: 18.OCT.2023 17:29:33

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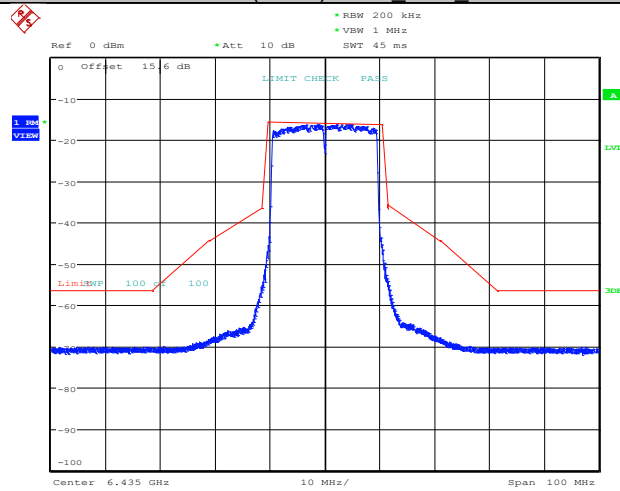


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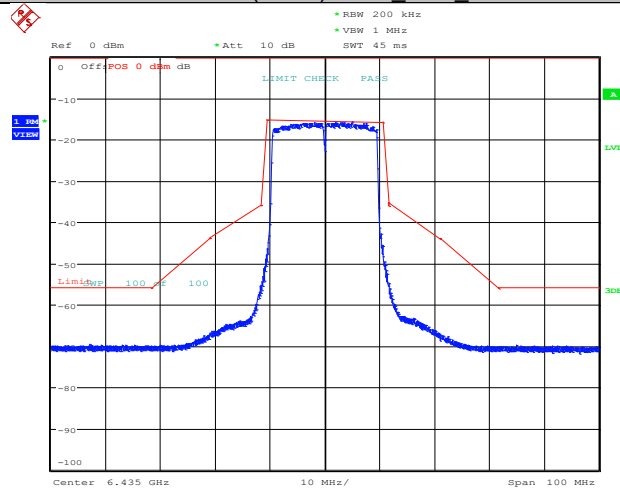
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Date: 18.OCT.2023 17:31:16

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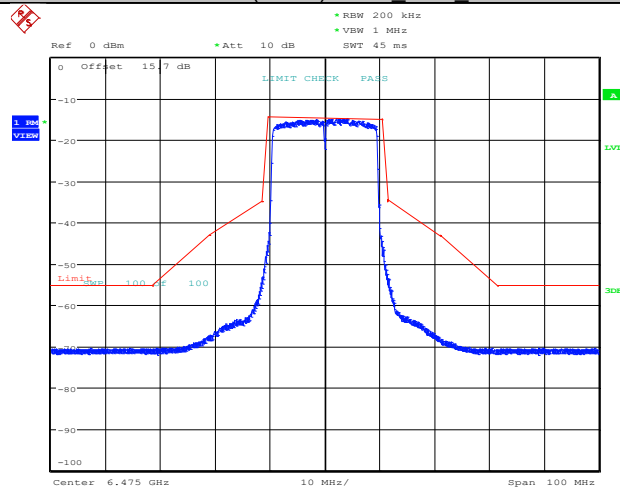


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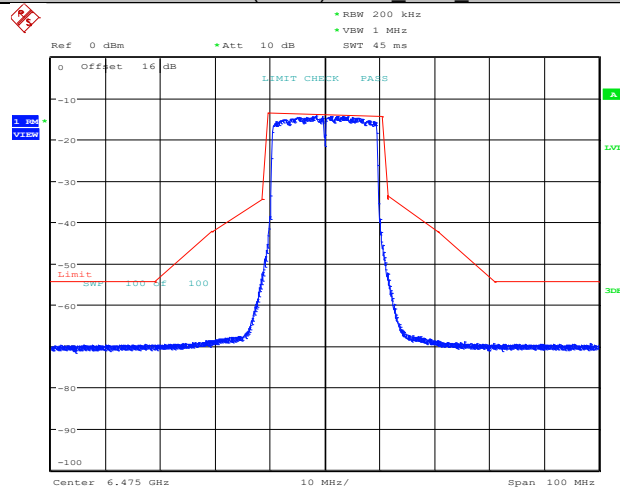
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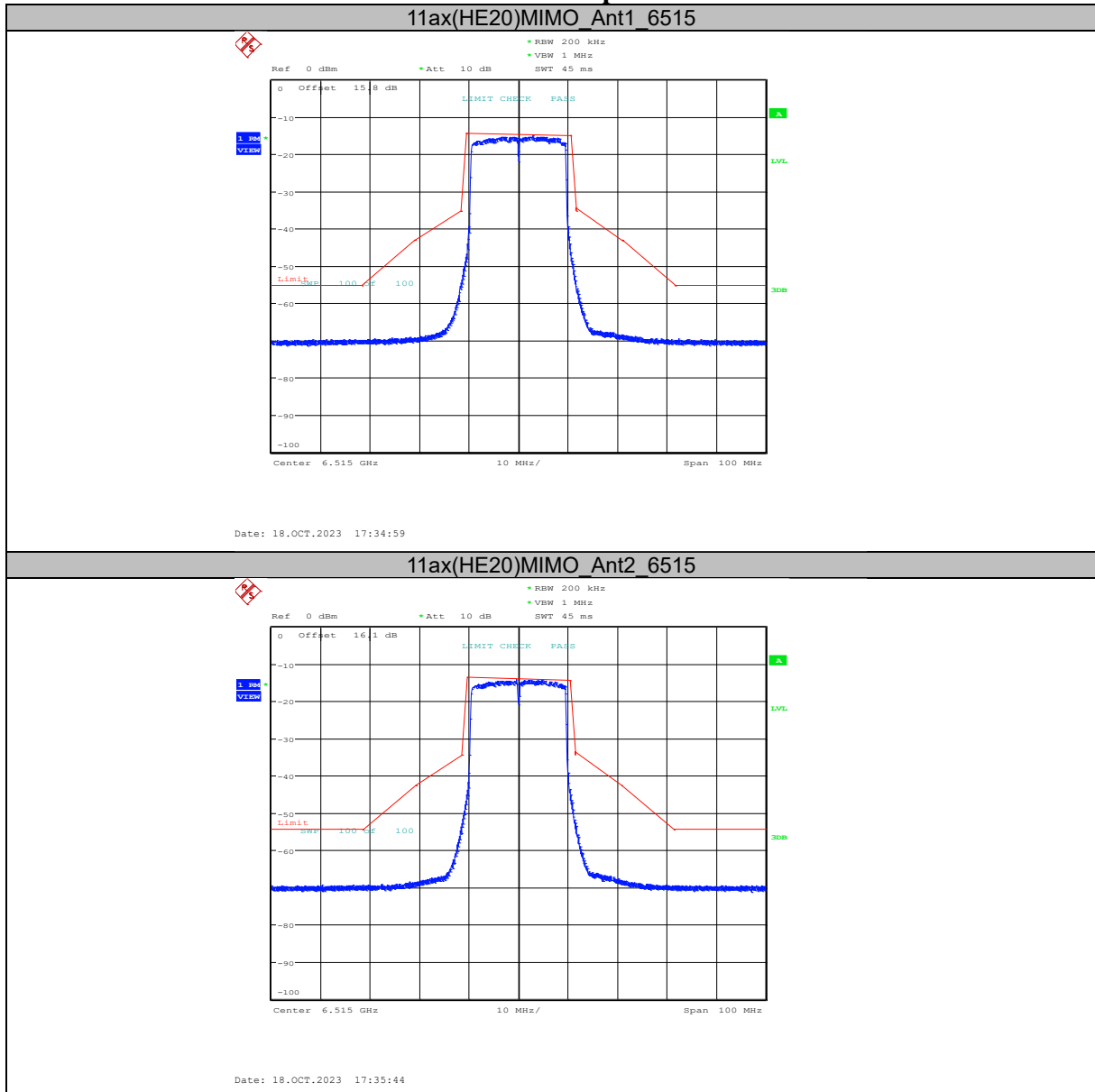
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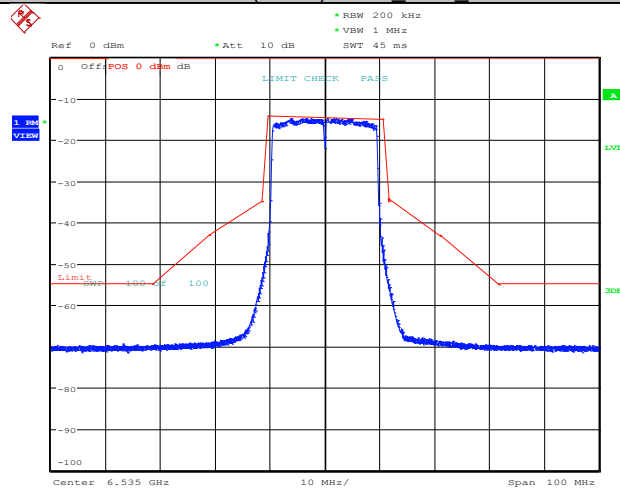
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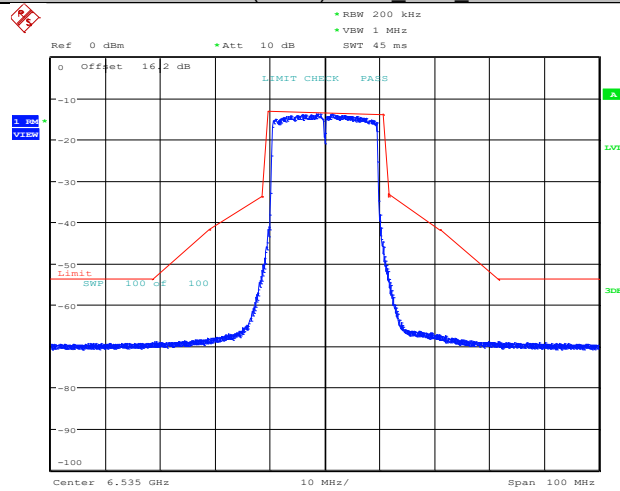


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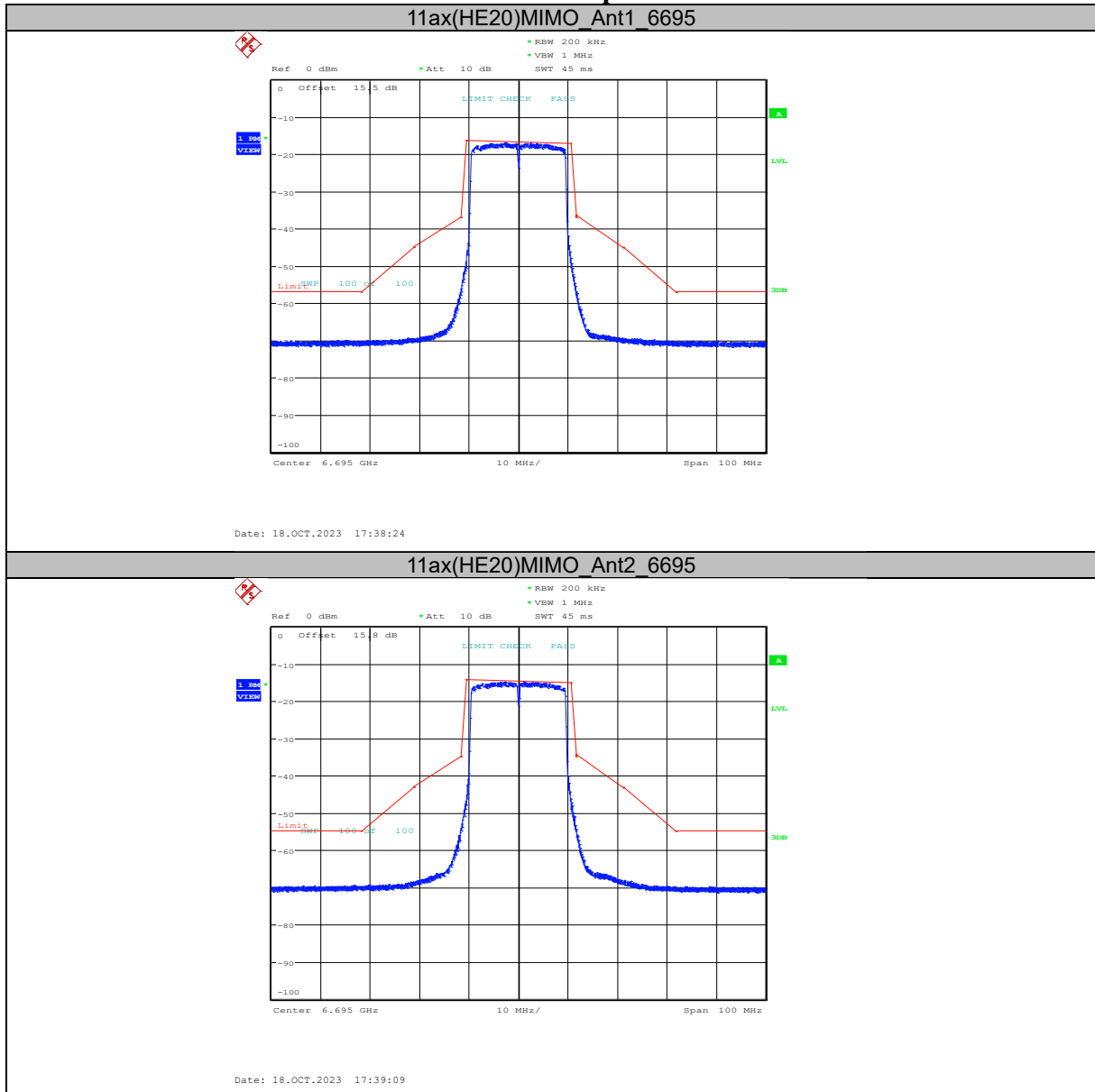
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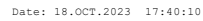
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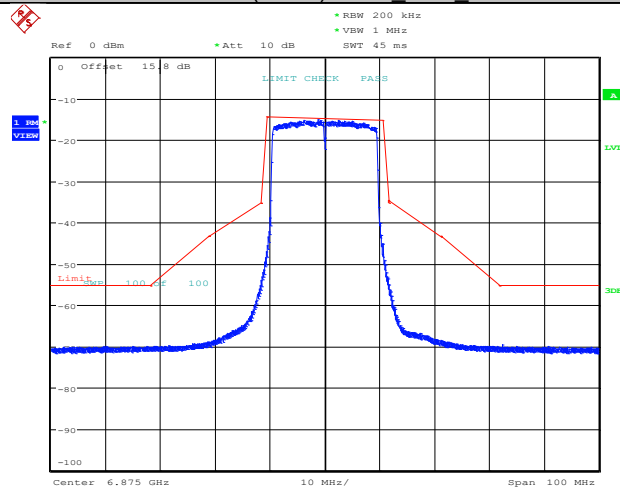
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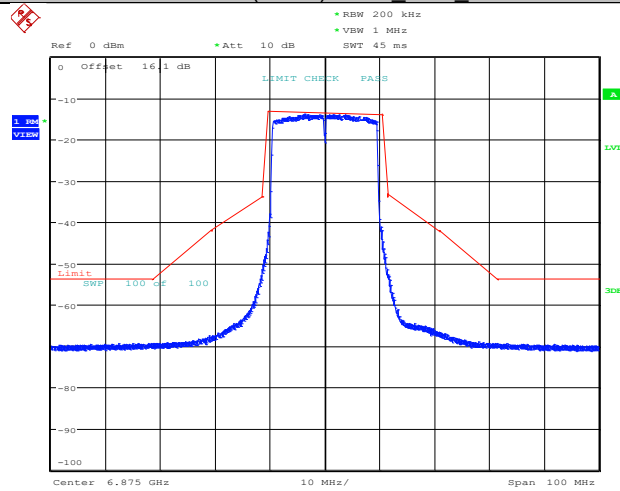
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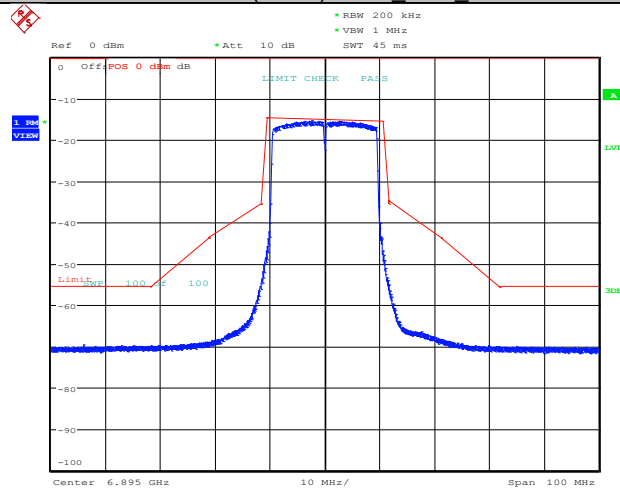
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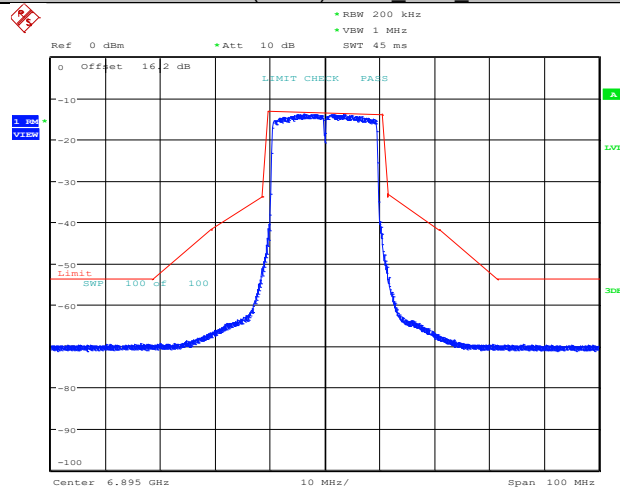


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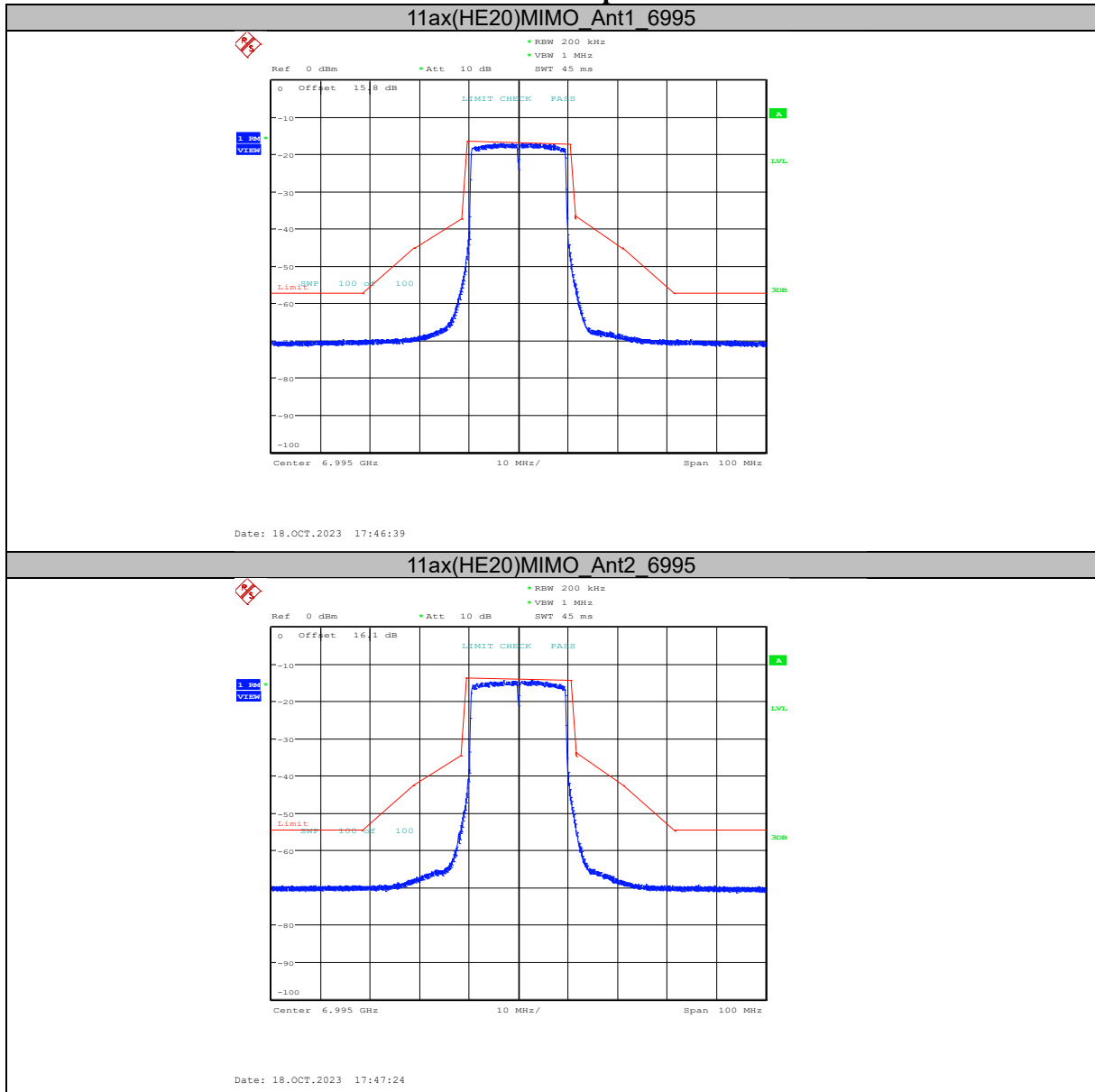
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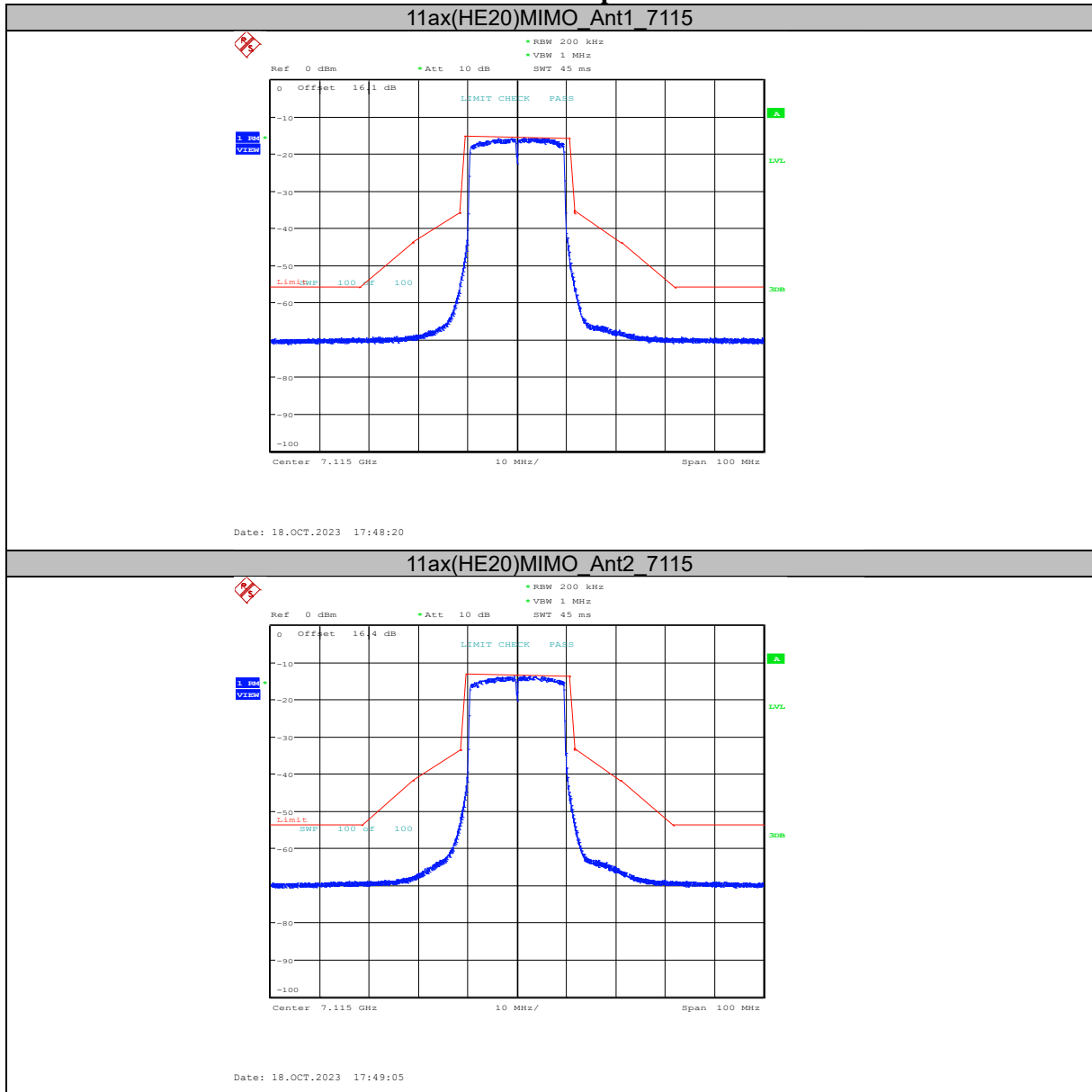


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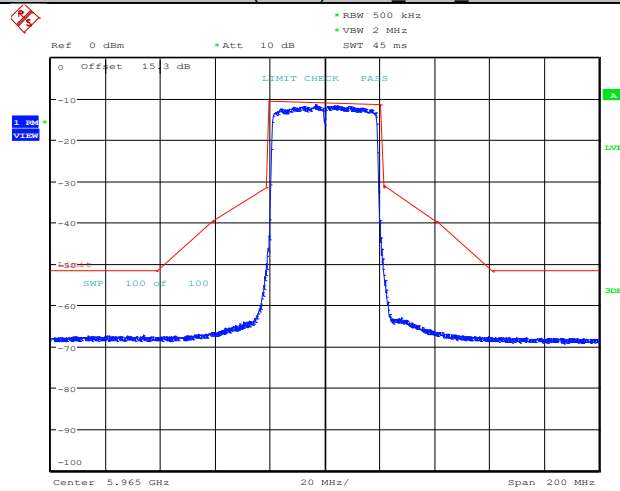




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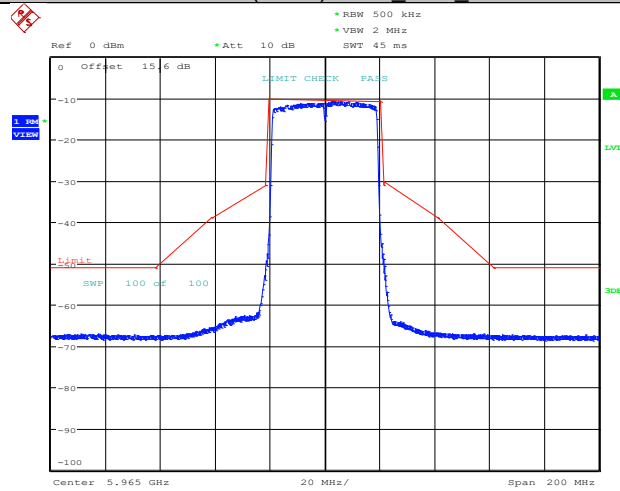
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Date: 18.OCT.2023 17:51:40

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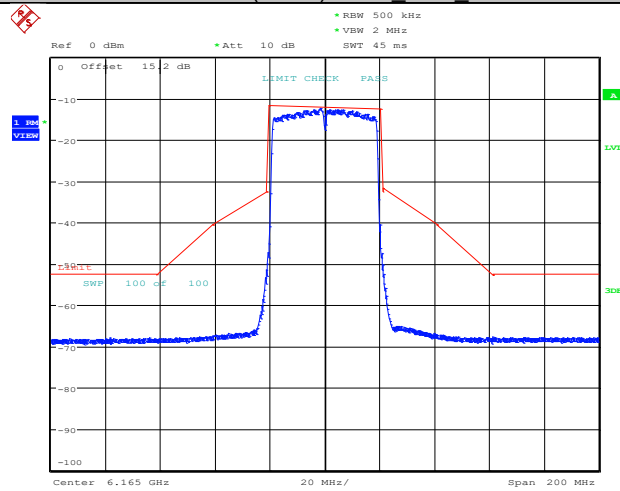


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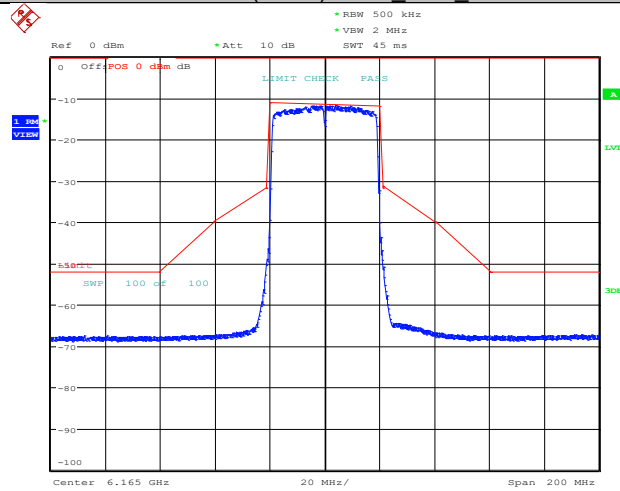
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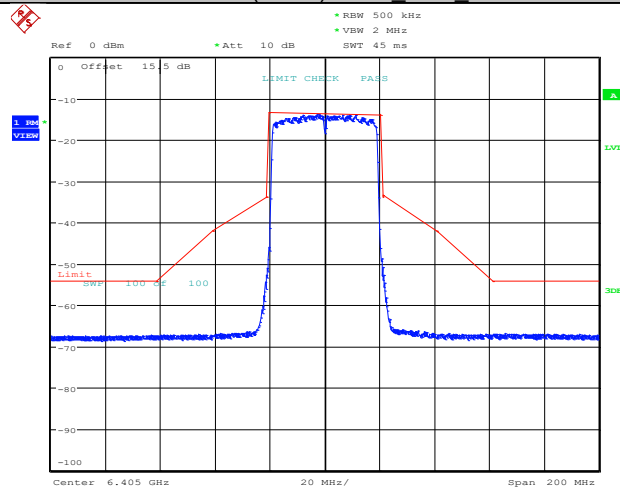
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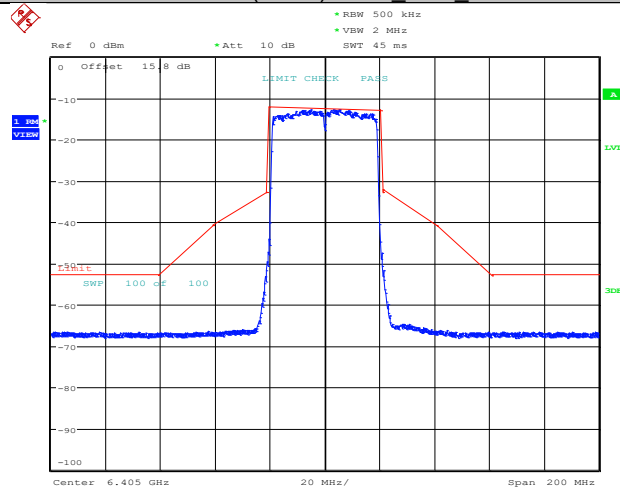
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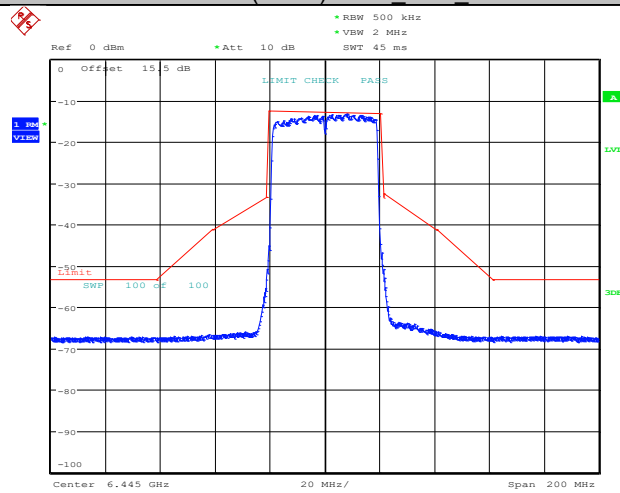


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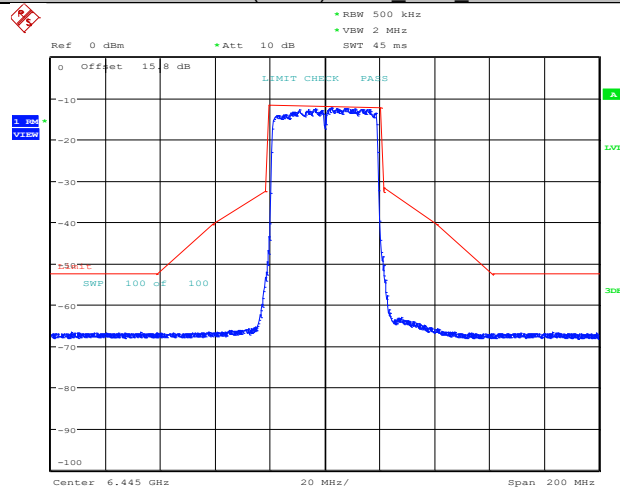
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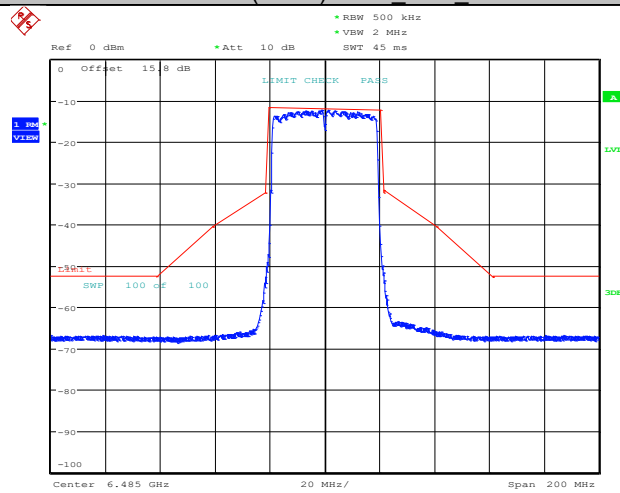


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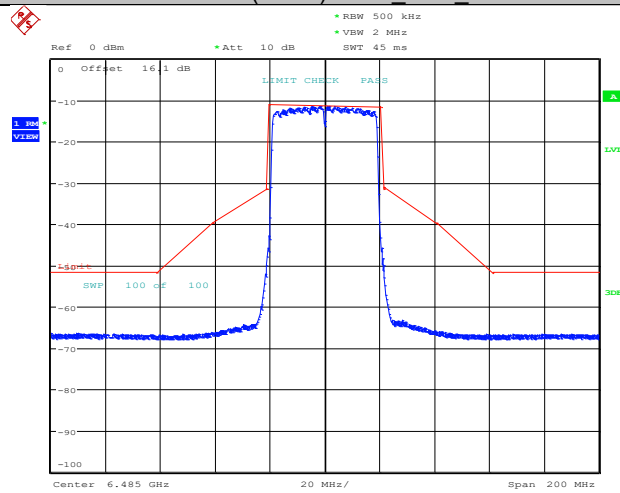
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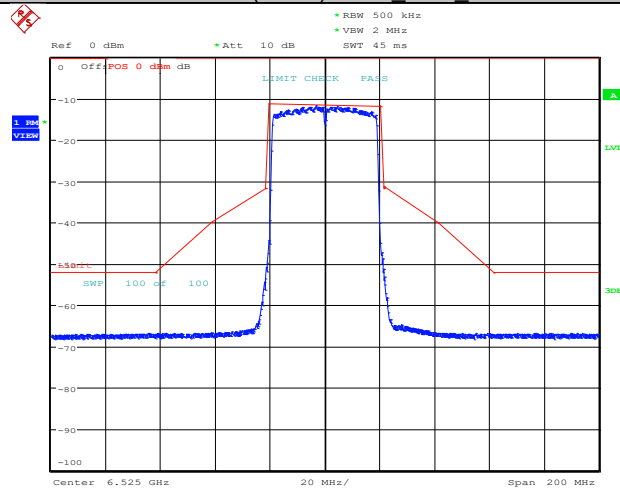
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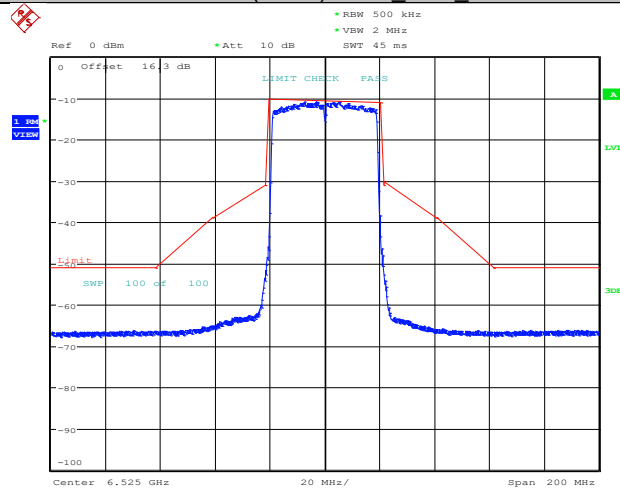
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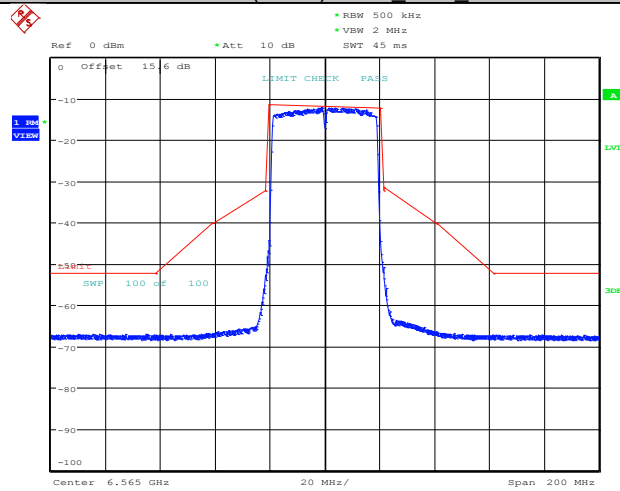
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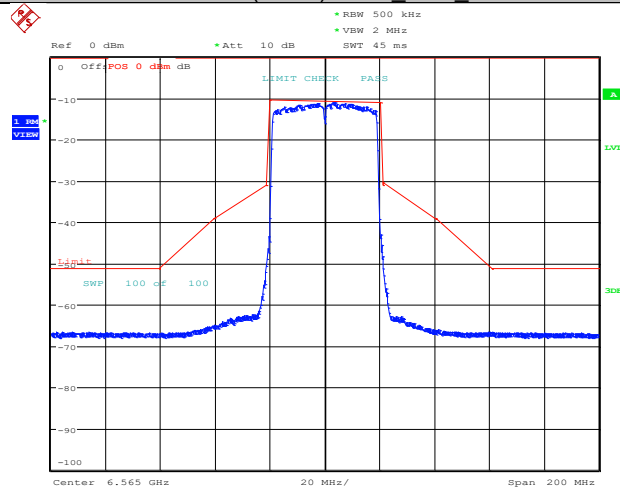
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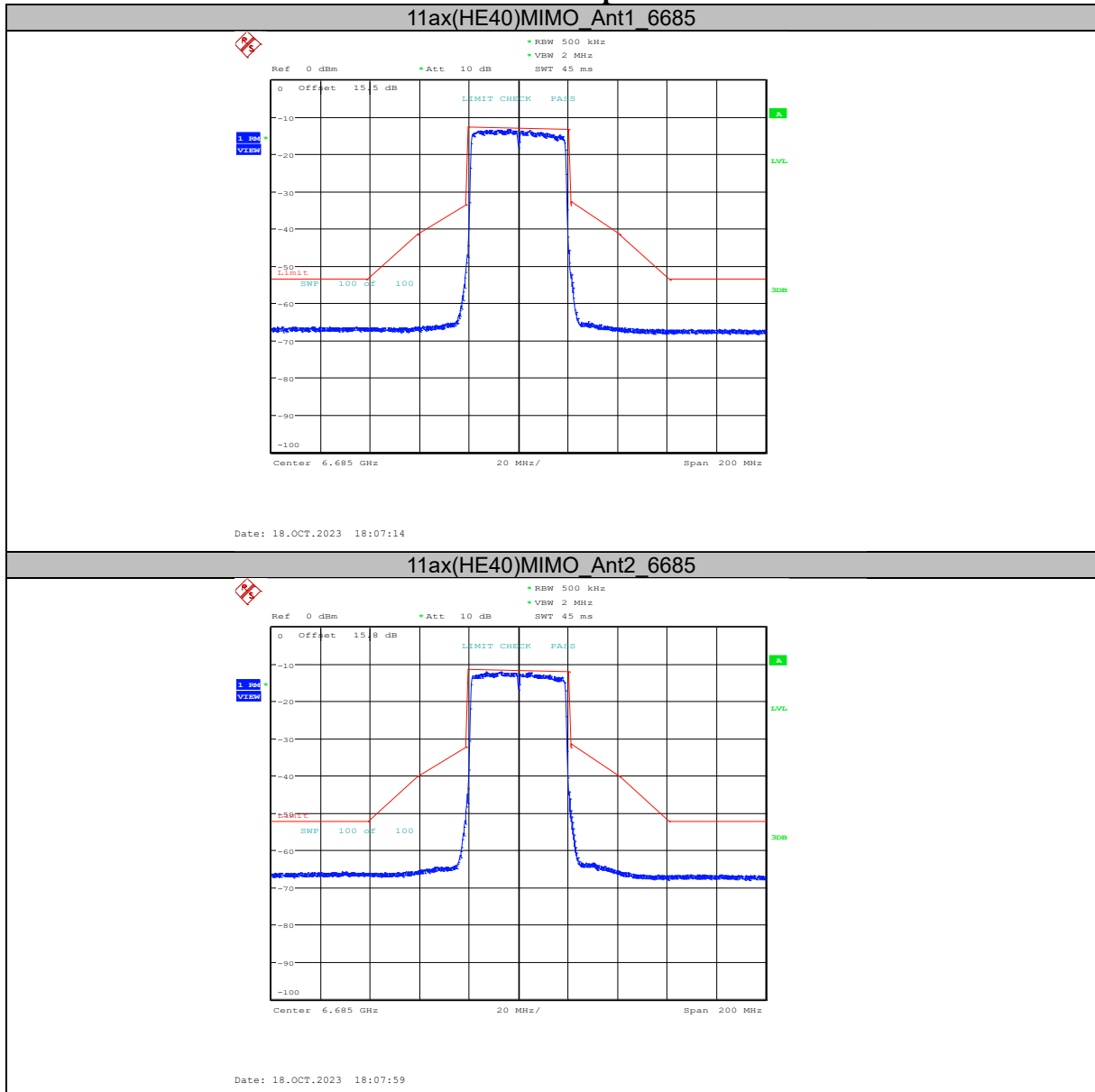


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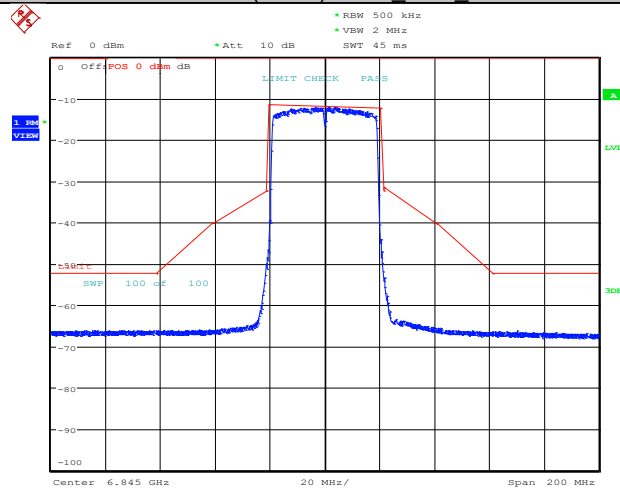
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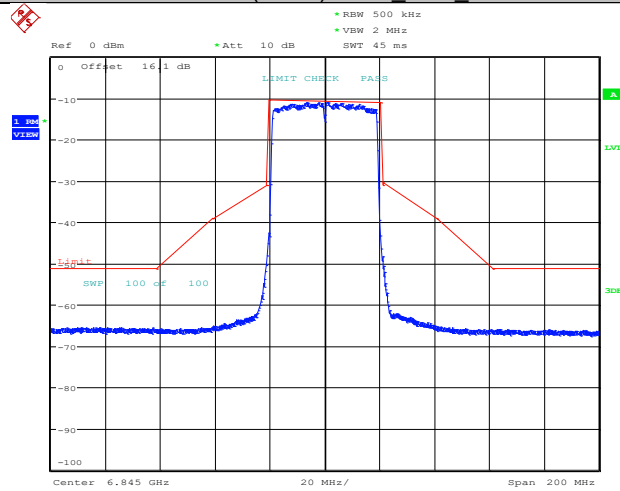


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Date: 18.OCT.2023 18:09:11

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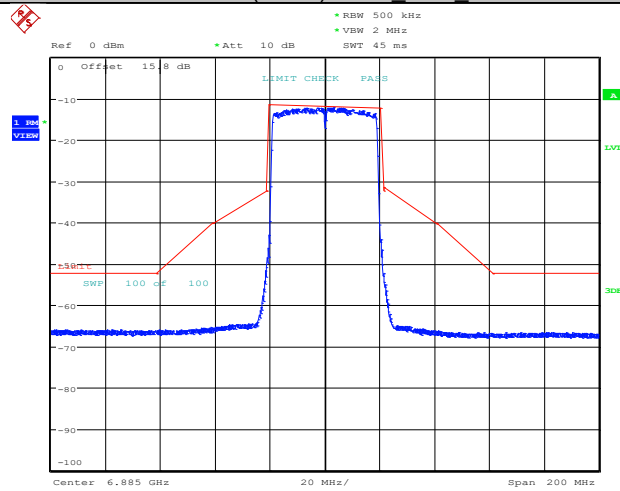


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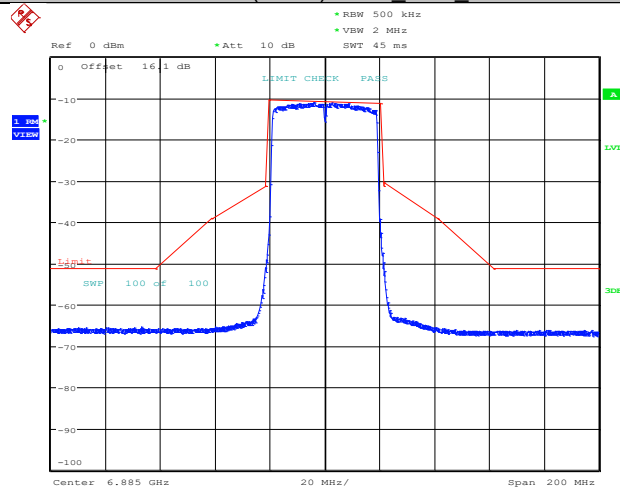
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Date: 18.OCT.2023 18:10:50

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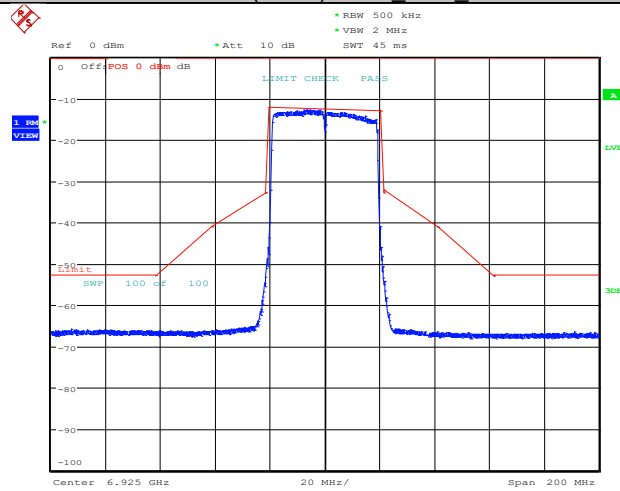


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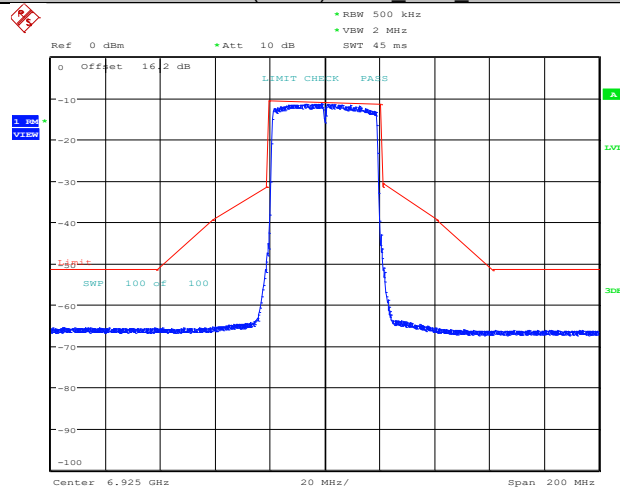
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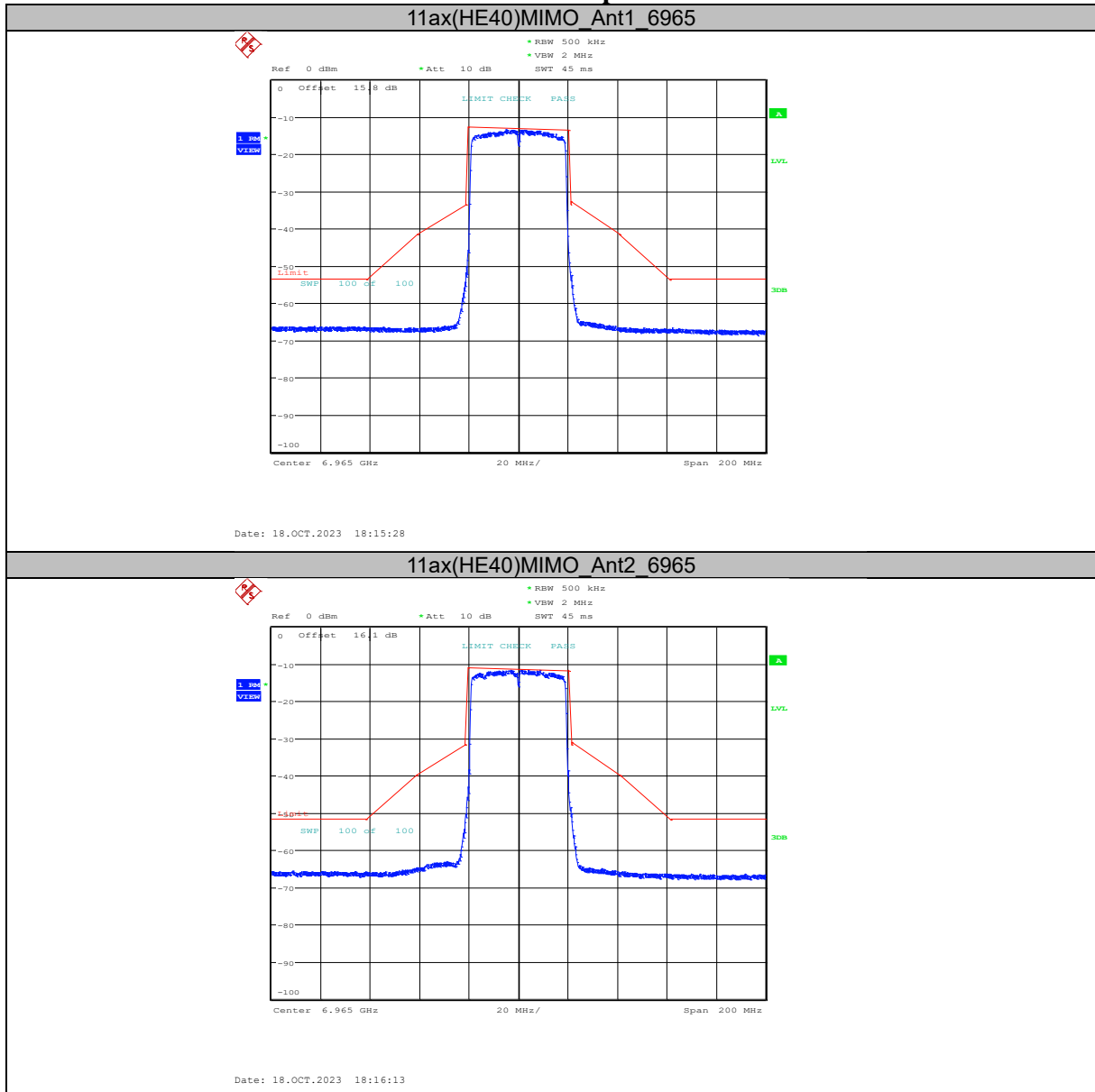
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Date: 18.OCT.2023 18:14:32

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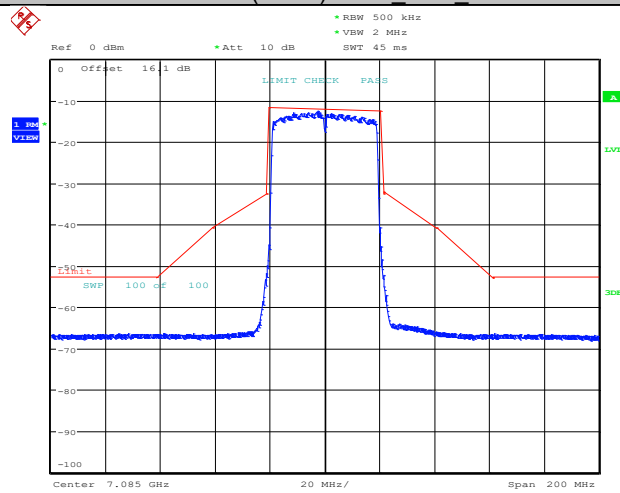
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Tel: 0086-23-88069965 FAX: 0086-23-88608777



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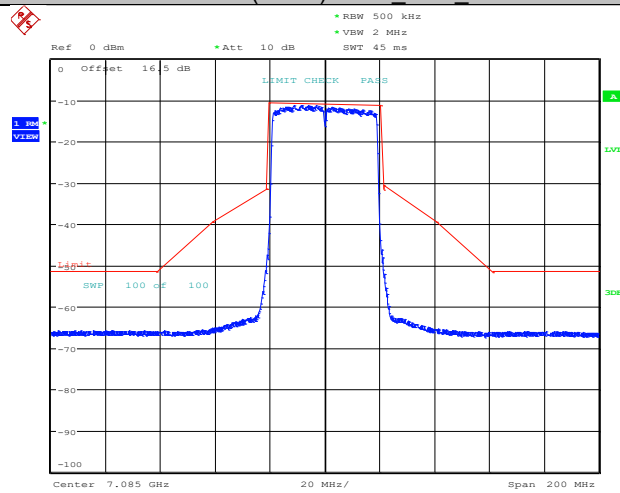
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

11ax(HE40)MIMO_Ant1_7085

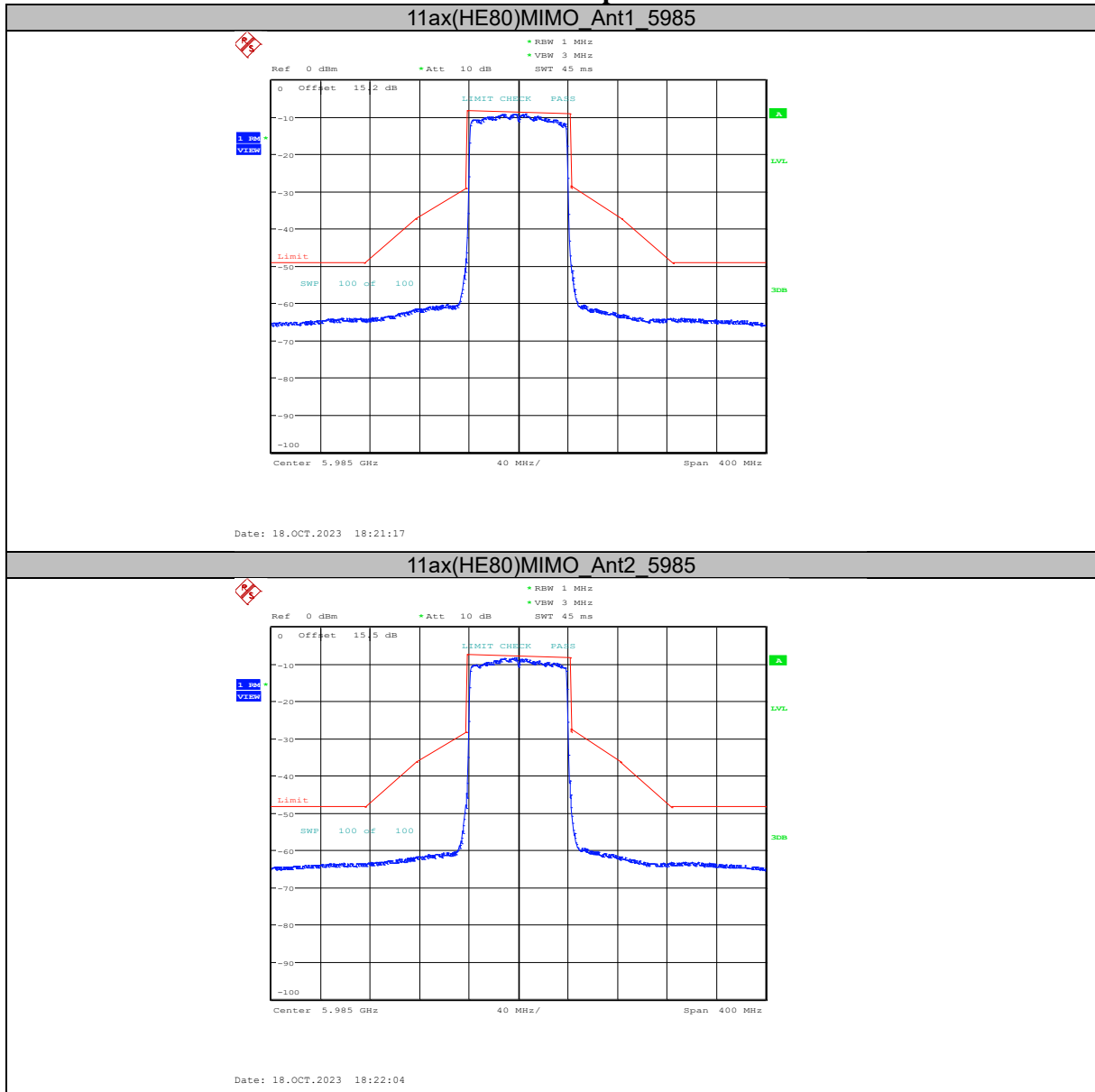


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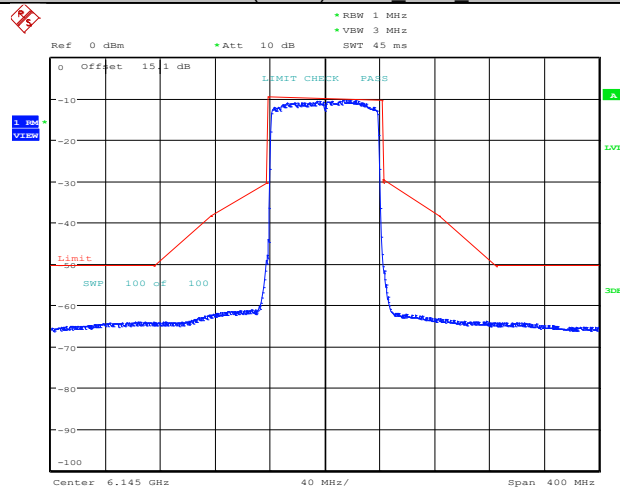
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Date: 18.OCT.2023 18:19:19

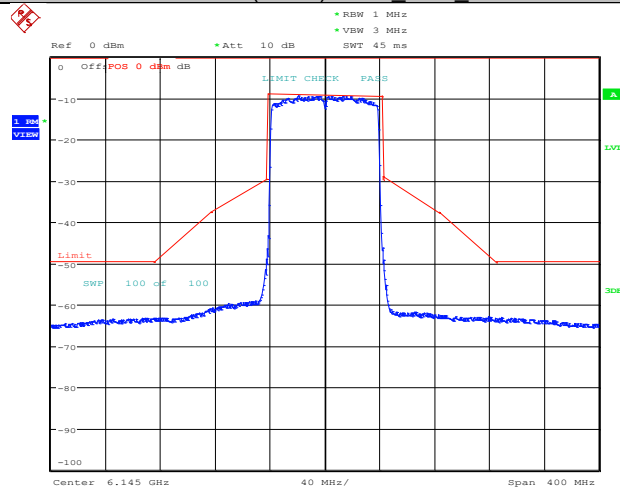


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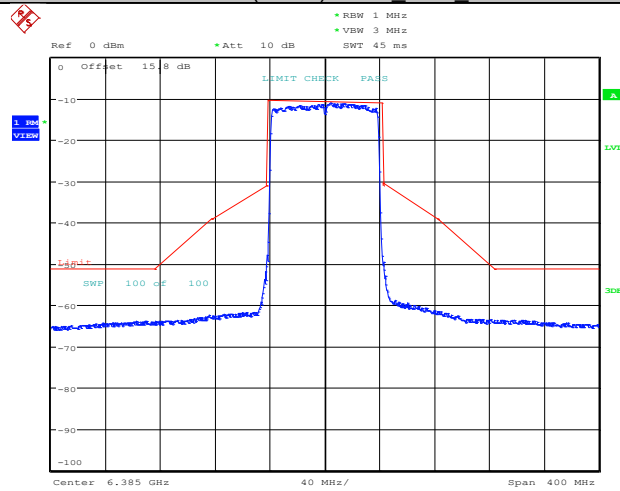
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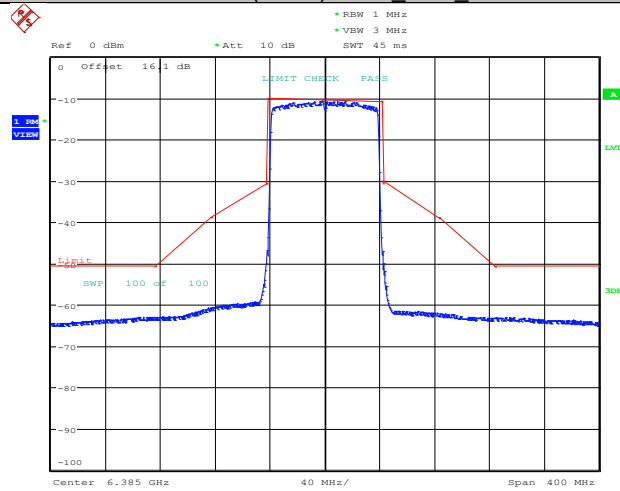
Date: 18.OCT.2023 18:23:48

11ax(HE80)MIMO_Ant1_6385



Date: 18.OCT.2023 18:24:46

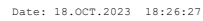
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Date: 18.OCT.2023 18:25:32

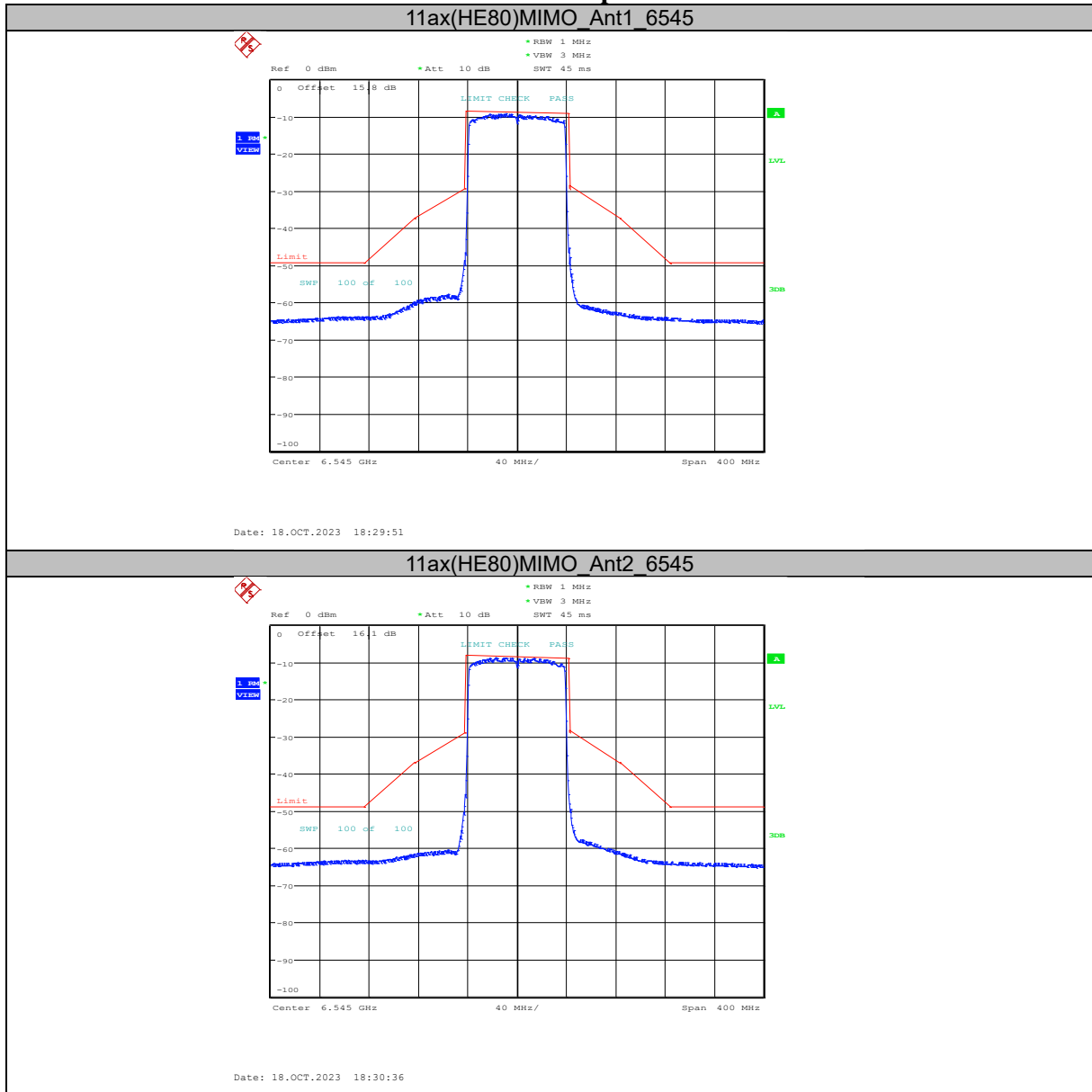


11ax(HE80)MIMO_Ant1_6465

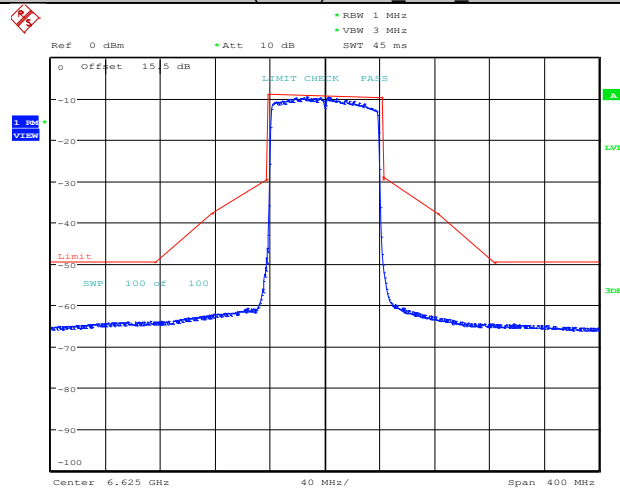


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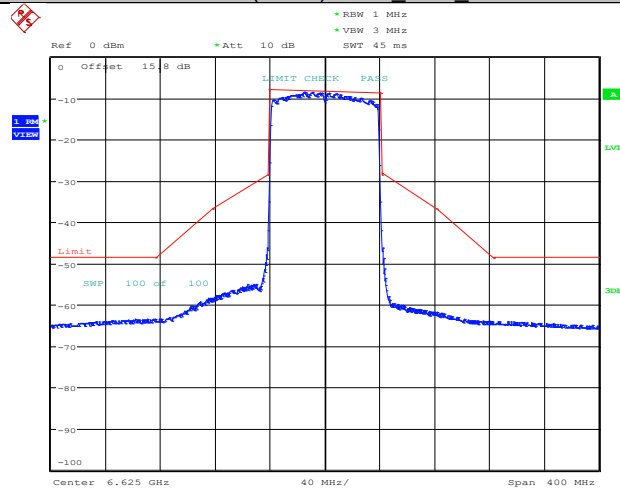


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Date: 18.OCT.2023 18:31:50

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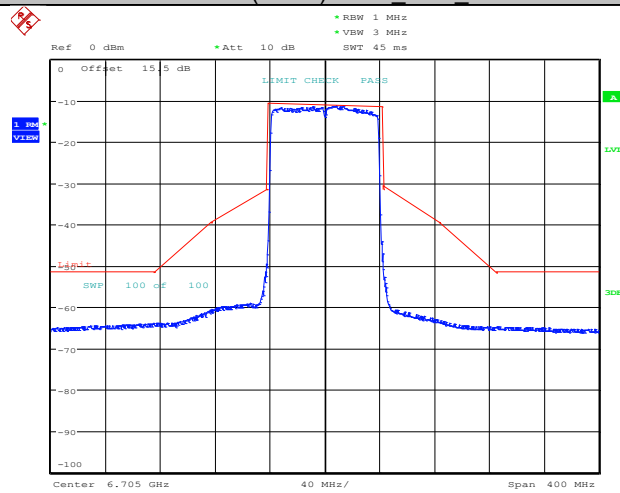


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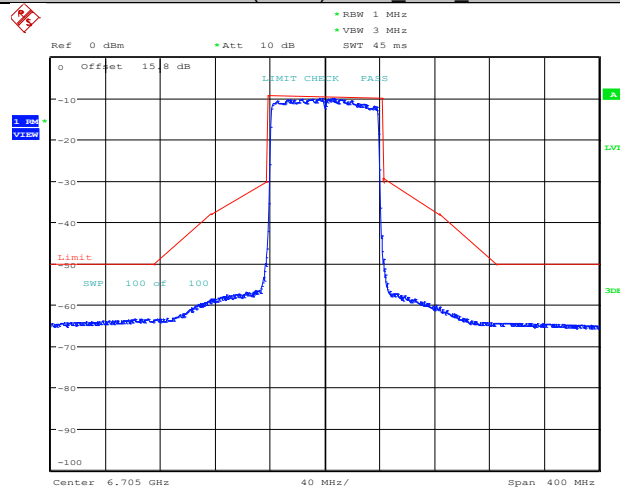
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Tel: 0086-23-88069965 FAX:0086-23-88608777

11ax(HE80)MIMO_Ant1_6705

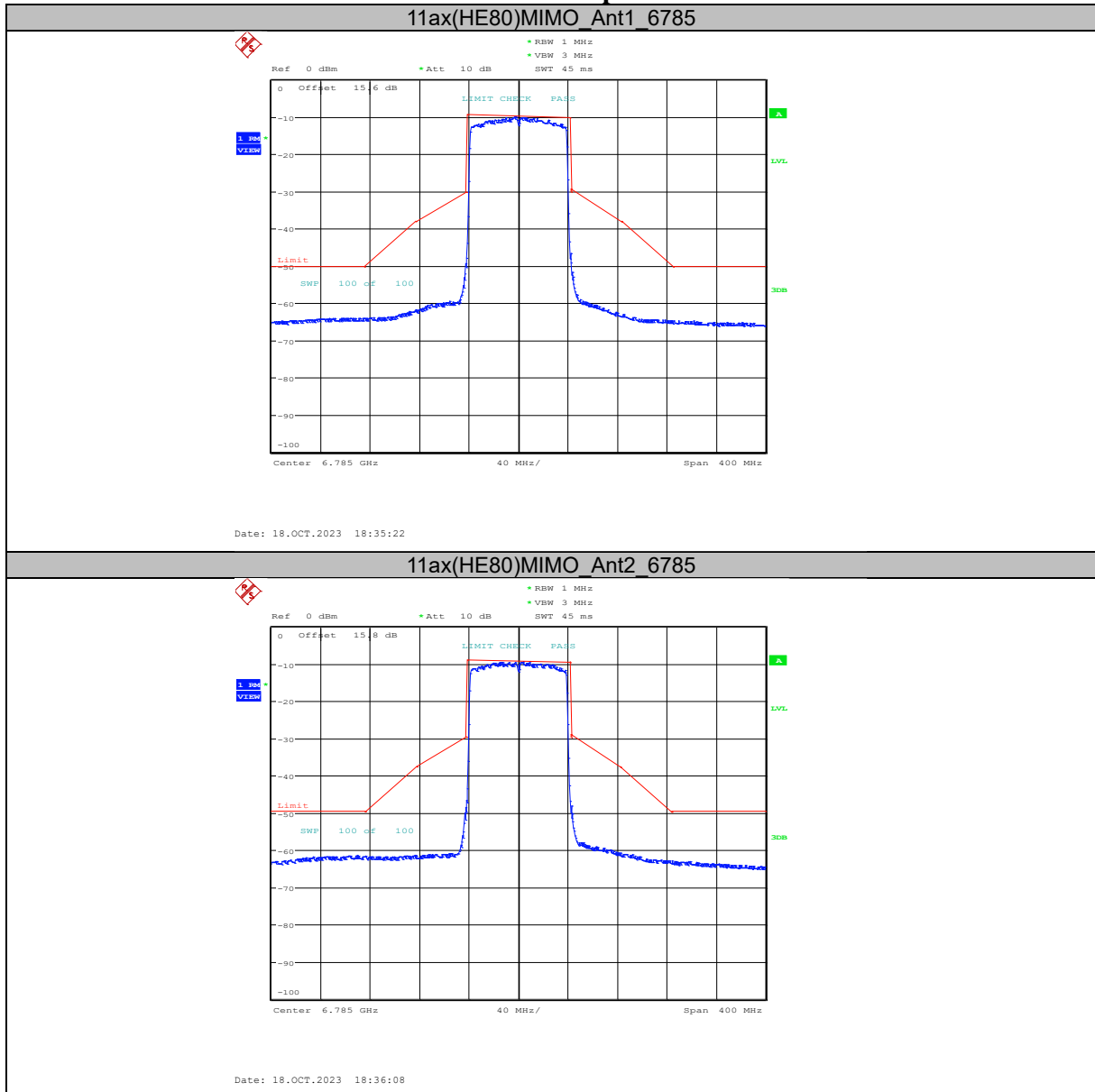


Date: 18.OCT.2023 18:33:34

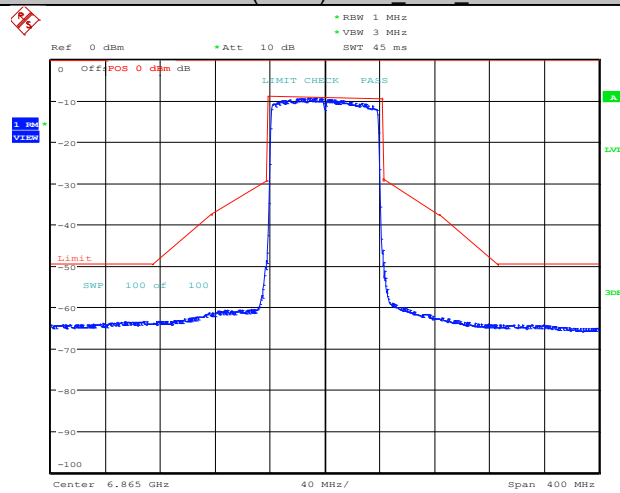
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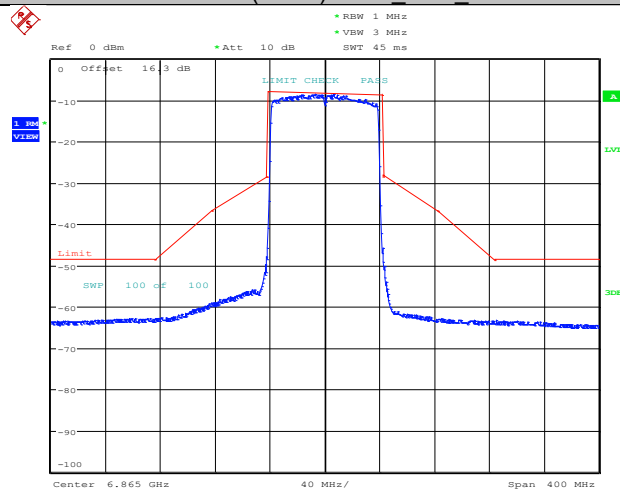


11ax(HE80)MIMO_Ant1_6865



Date: 18.OCT.2023 18:37:04

11ax(HE80)MIMO_Ant2_6865

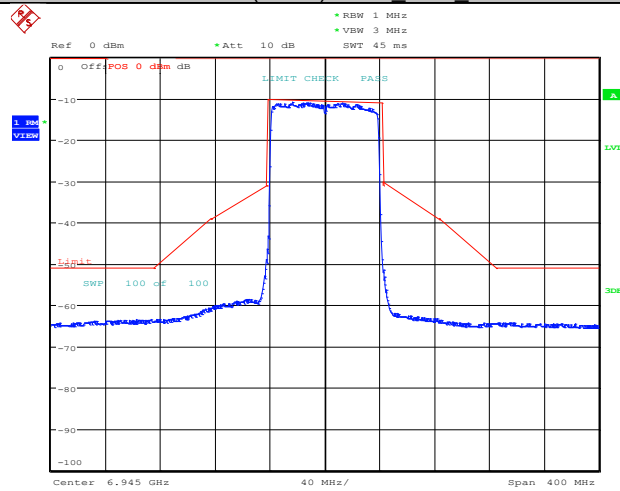


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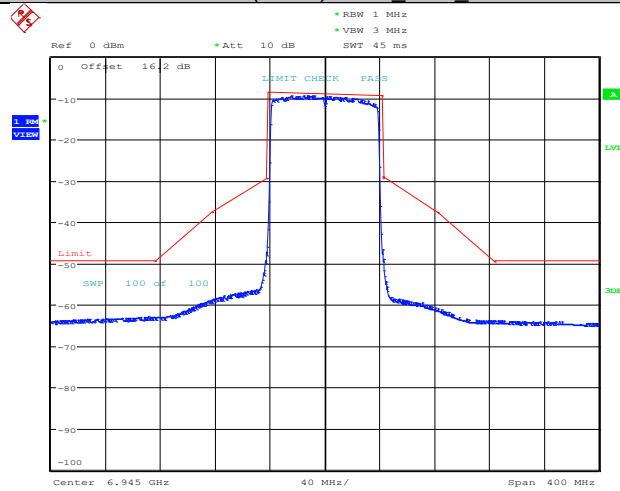
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11ax(HE80)MIMO_Ant1_6945



Date: 18.OCT.2023 18:38:47

11ax(HE80)MIMO_Ant2_6945

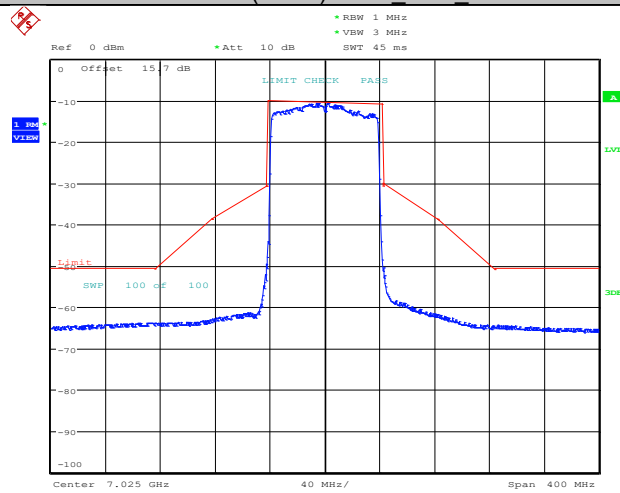


Date: 18.OCT.2023 18:39:34

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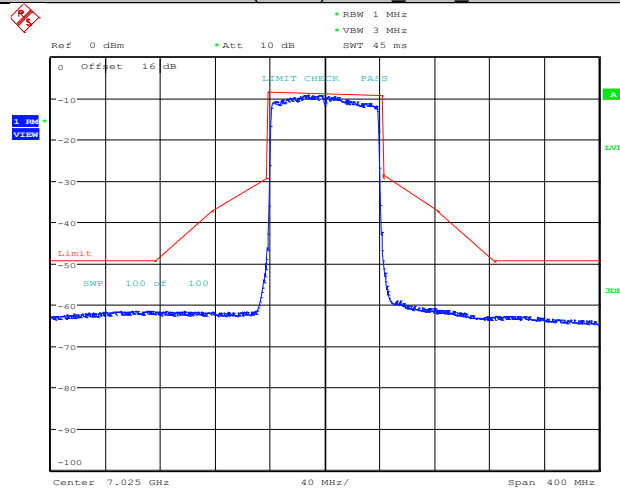
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11ax(HE80)MIMO_Ant1_7025



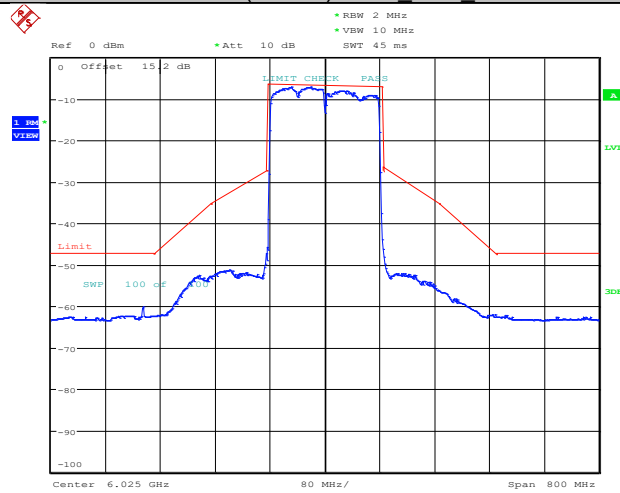
Date: 18.OCT.2023 18:40:54

11ax(HE80)MIMO_Ant2_7025



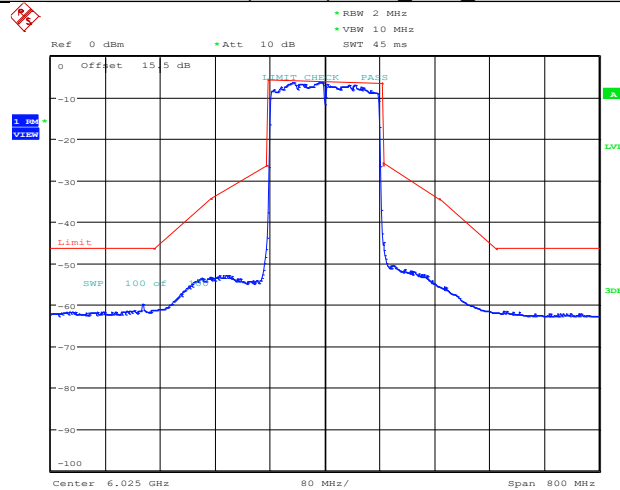
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11ax(HE160)MIMO_Ant1_6025



Date: 24.OCT.2023 17:14:24

11ax(HE160)MIMO_Ant2_6025

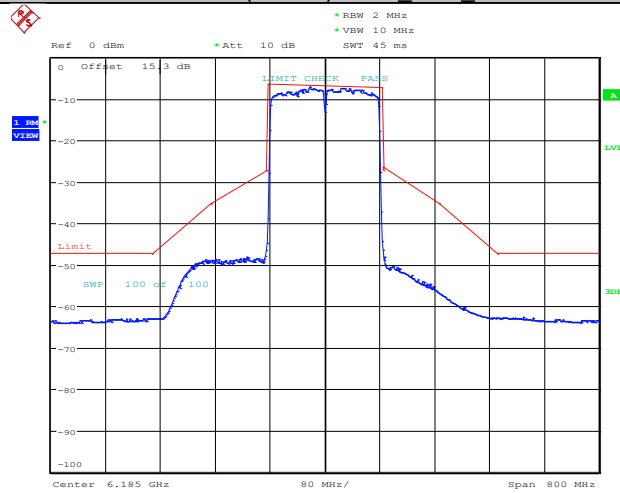


Date: 24.OCT.2023 17:15:09

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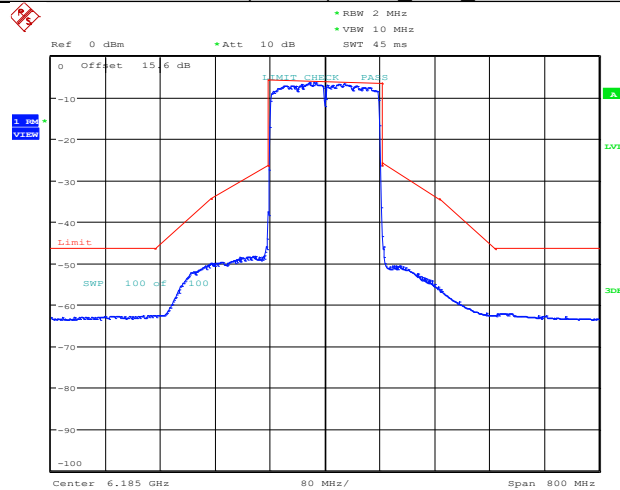
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11ax(HE160)MIMO_Ant1_6185



Date: 24.OCT.2023 17:16:05

11ax(HE160)MIMO_Ant2_6185

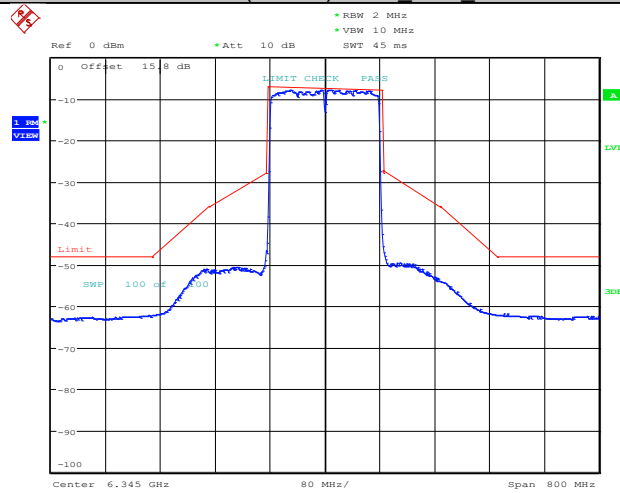


Date: 24.OCT.2023 17:16:50

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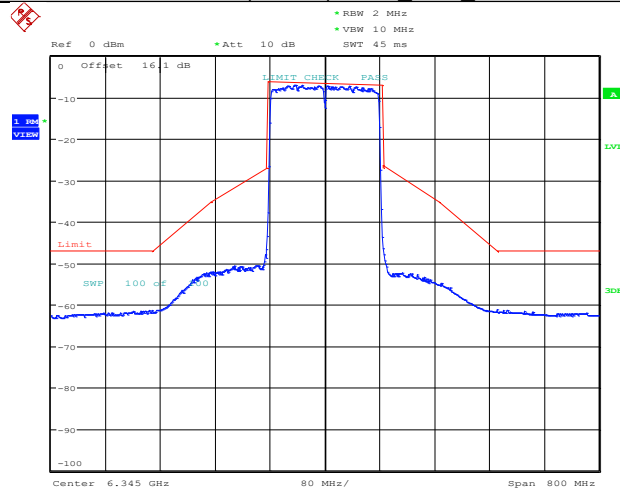
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Tel: 0086-23-88069965 FAX: 0086-23-88608777

11ax(HE160)MIMO_Ant1_6345



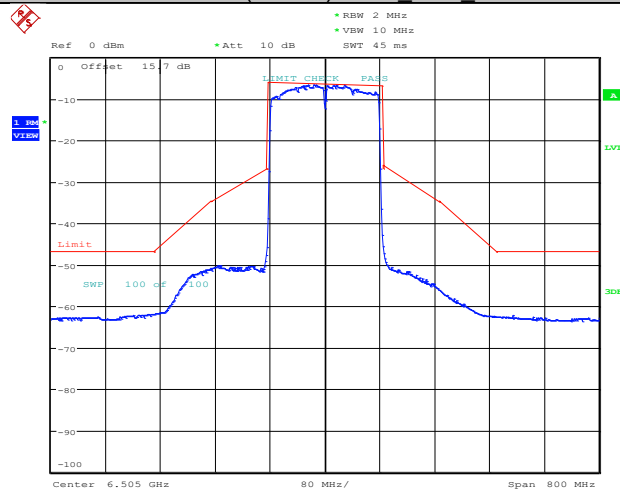
Date: 24.OCT.2023 17:17:46

11ax(HE160)MIMO_Ant2_6345



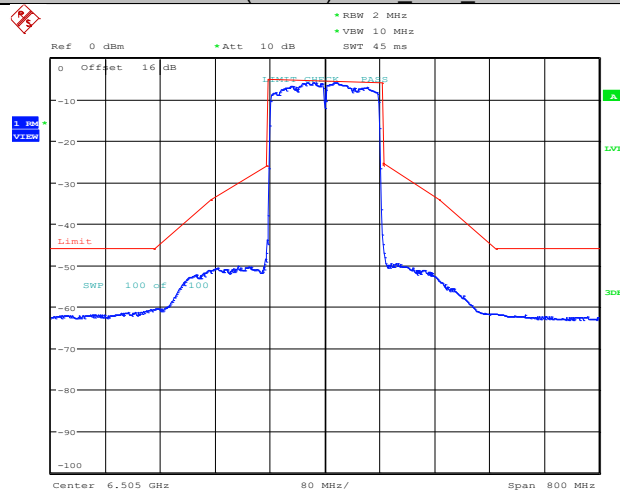
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Date: 24.OCT.2023 17:19:54

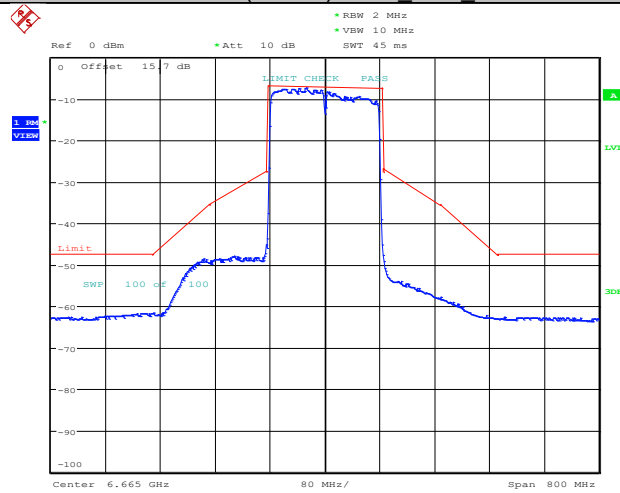
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Date: 24.OCT.2023 17:20:40

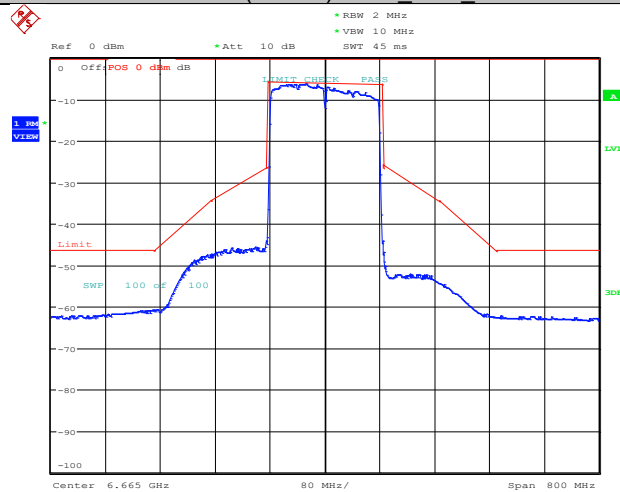
Report No.: I23W00036-WIFI 6E RF-FCC

11ax(HE160)MIMO_Ant1_6665



Date: 24.OCT.2023 17:21:48

11ax(HE160)MIMO_Ant2_6665

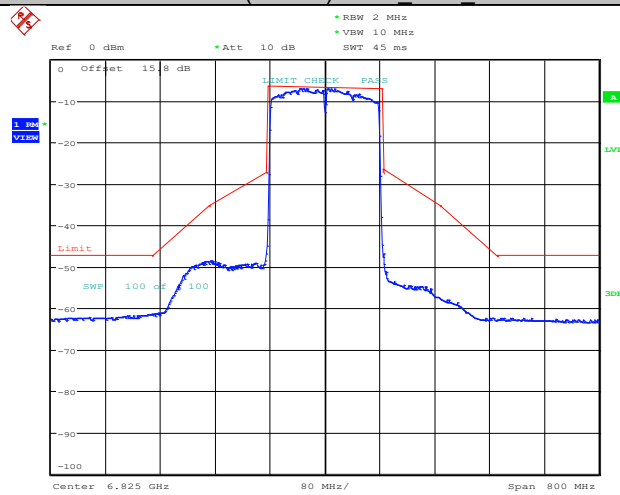


Date: 24.OCT.2023 17:22:33

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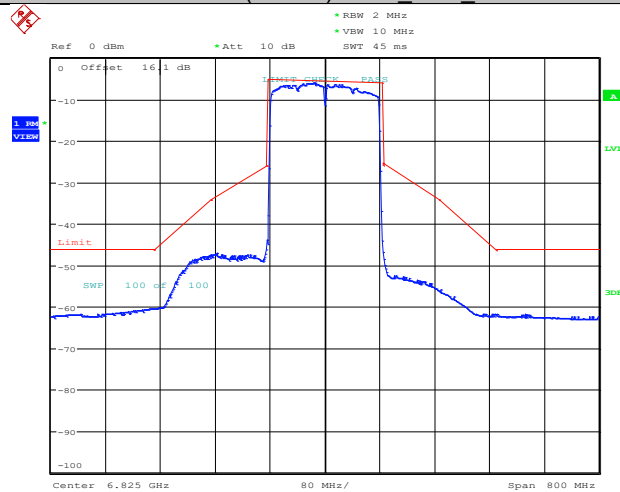
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11ax(HE160)MIMO_Ant1_6825



Date: 24.OCT.2023 17:23:39

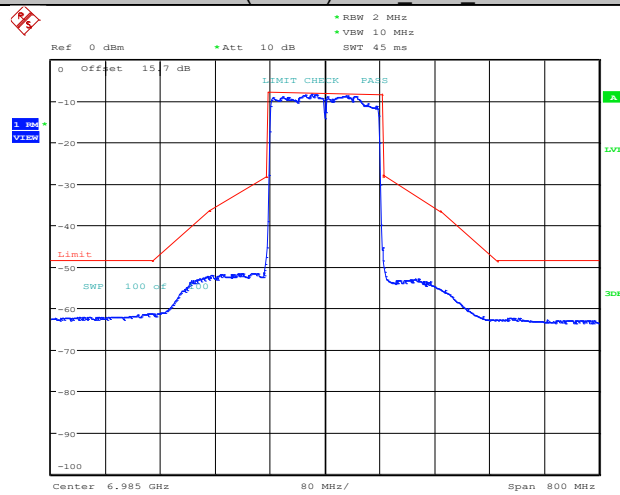
11ax(HE160)MIMO_Ant2_6825



Date: 24.OCT.2023 17:24:24

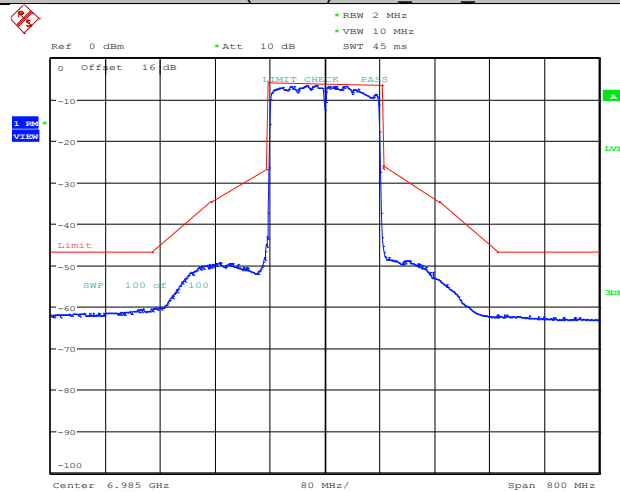
Report No.: I23W00036-WIFI 6E RF-FCC

11ax(HE160)MIMO_Ant1_6985



Date: 24.OCT.2023 17:25:19

11ax(HE160)MIMO_Ant2_6985



Date: 24.OCT.2023 17:26:05

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6.6. Contention Based Protocol

Specifications:	FCC 47 CFR Part 15.407(d)(6)
DUT Serial Number:	S3
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit
FCC 47 CFR Part 15.407(d)(6)	EUT must detect AWGN signal with 90% (or better) certainty

Measurement Uncertainty:

Measurement Uncertainty	±0.94dB
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Test procedures:

The measurement method is made according to KDB 987594 D02 v01r01

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.

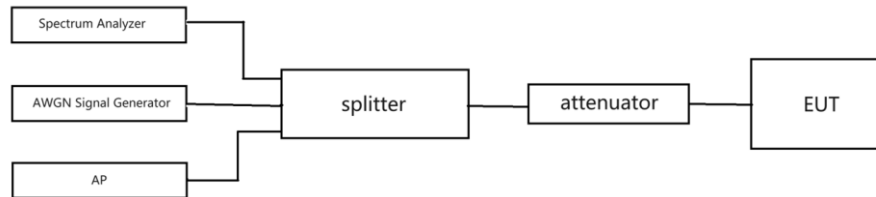
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9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Test Setup:



Test Notes

1. Per guidance from KDB 987594 D02 v01r01, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signified by the ceasing of transmission, M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
 2. 15 trials were run to assure that at least 90% of certainty was met.
 3. Per Guidance from KDB 987594 D04 v01, contention-based protocol was tested with receiver with the lowest antenna gain in Antenna Spec.
 4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmitting.
 5. Only one AWGN plot is shown in this section as a representative plot for the AWGN signal used to execute the Contention Based Protocol testing per KDB 987594 D02.
 6. EUT don't support channel puncturing and bandwidth reduction mechanisms.
 7. In the ceased test plots, the AWGN signal is injected at 2 seconds.
- Adjusted Power [dBm] = Injected (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB).

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Measurement Results:

Test Mode	Antenna	Channel	Interference Frequency [MHz]		Status	AWGN Level [dBm]	Antenna Gain (dBi)	Path Loss (dB)	Adjusted Level [dBm]	Detection Limit [dBm]	Verdict
11ax(HE20)	Ant2	6175	Center	6175	Ceased	-61.96	2.1	0.5	-63.56	-62	PASS
			Center	6175	Minimal	-64.07	2.1	0.5	-65.67	-62	---
			Center	6175	Normal	-87	2.1	0.5	-88.6	-62	---
		6435	Center	6435	Ceased	-61.44	2.1	0.5	-63.04	-62	PASS
			Center	6435	Minimal	-62.38	2.1	0.5	-63.98	-62	---
			Center	6435	Normal	-87	2.1	0.5	-88.6	-62	---
		6535	Center	6535	Ceased	-68.36	2.1	0.5	-69.96	-62	PASS
			Center	6535	Minimal	-69.25	2.1	0.5	-70.85	-62	---
			Center	6535	Normal	-87	2.1	0.5	-88.6	-62	---
		6895	Center	6895	Ceased	-65	2.1	0.5	-66.6	-62	PASS
			Center	6895	Minimal	-65.68	2.1	0.5	-67.28	-62	---
			Center	6895	Normal	-87	2.1	0.5	-88.6	-62	---
11ax(HE160)	Ant2	6345	Low	6271.28	Ceased	-64.68	2.1	0.5	-66.28	-62	PASS
			Low	6271.28	Minimal	-66.53	2.1	0.5	-68.13	-62	---
			Low	6271.28	Normal	-87	2.1	0.5	-88.6	-62	---
			Center	6345	Ceased	-64.28	2.1	0.5	-65.88	-62	PASS
			Center	6345	Minimal	-65.36	2.1	0.5	-66.96	-62	---
			Center	6345	Normal	-87	2.1	0.5	-88.6	-62	---
			High	6419.04	Ceased	-67.04	2.1	0.5	-68.64	-62	PASS
			High	6419.04	Minimal	-67.83	2.1	0.5	-69.43	-62	---
			High	6419.04	Normal	-87	2.1	0.5	-88.6	-62	---
		6505	Low	6431.28	Ceased	-68.05	2.1	0.5	-69.65	-62	PASS
			Low	6431.28	Minimal	-68.84	2.1	0.5	-70.44	-62	---
			Low	6431.28	Normal	-87	2.1	0.5	-88.6	-62	---
			Center	6505	Ceased	-66	2.1	0.5	-67.6	-62	PASS
			Center	6505	Minimal	-67.06	2.1	0.5	-68.66	-62	---
			Center	6505	Normal	-87	2.1	0.5	-88.6	-62	---
			High	6578.72	Ceased	-68.8	2.1	0.5	-70.4	-62	PASS
			High	6578.72	Minimal	-69.71	2.1	0.5	-71.31	-62	---
			High	6578.72	Normal	-87	2.1	0.5	-88.6	-62	---
		6665	Low	6591.28	Ceased	-68.07	2.1	0.5	-69.67	-62	PASS
			Low	6591.28	Minimal	-69.09	2.1	0.5	-70.69	-62	---
			Low	6591.28	Normal	-87	2.1	0.5	-88.6	-62	---
			Center	6665	Ceased	-64.21	2.1	0.5	-65.81	-62	PASS
			Center	6665	Minimal	-65.3	2.1	0.5	-66.9	-62	---
			Center	6665	Normal	-87	2.1	0.5	-88.6	-62	---
			High	6738.72	Ceased	-68.67	2.1	0.5	-70.27	-62	PASS
			High	6738.72	Minimal	-69.11	2.1	0.5	-70.71	-62	---
			High	6738.72	Normal	-87	2.1	0.5	-88.6	-62	---

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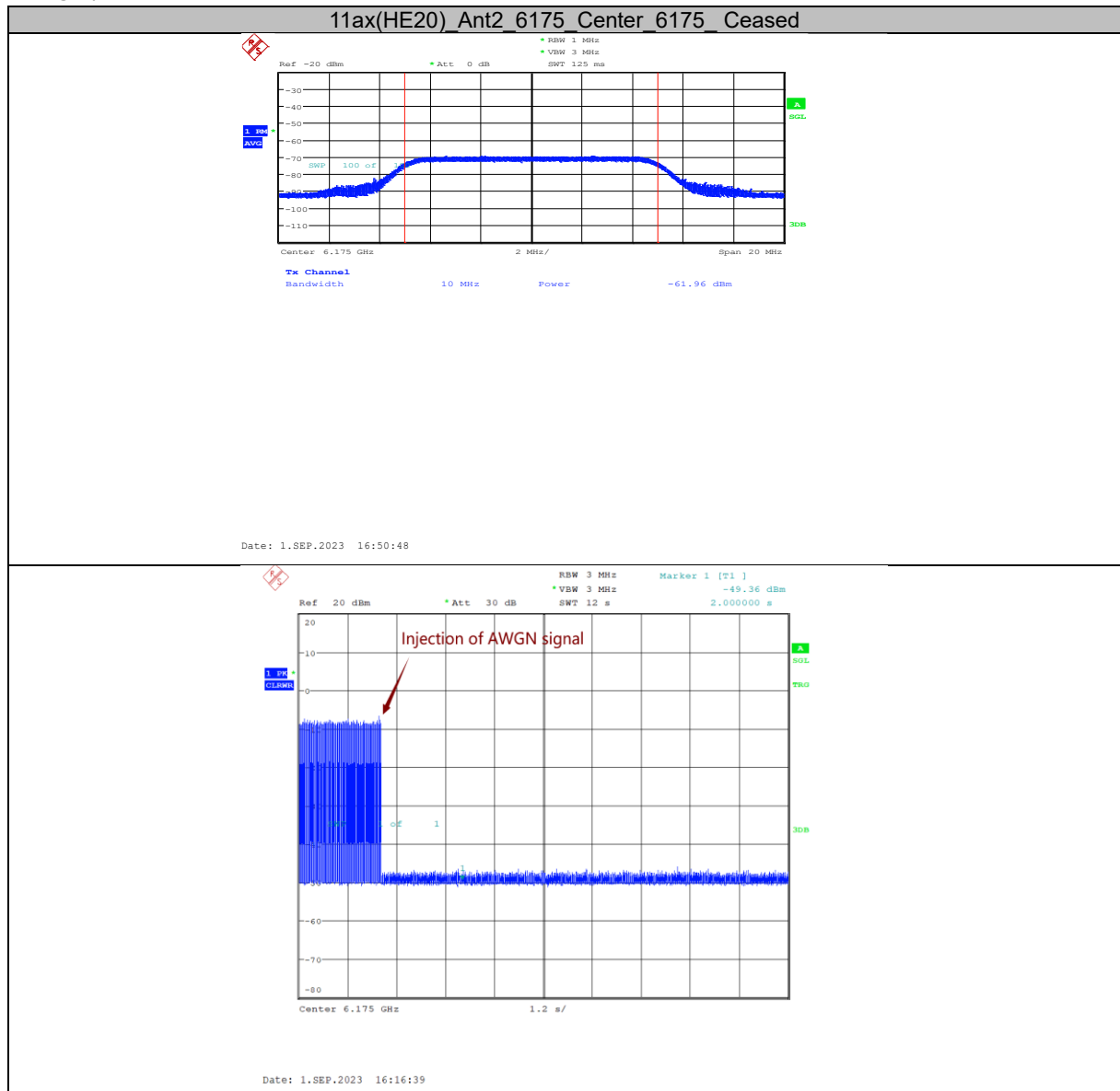
		6985	Low	6910.64	Ceased	-66.19	2.1	0.5	-67.79	-62	PASS
			Low	6910.64	Minimal	-67.26	2.1	0.5	-68.86	-62	---
			Low	6910.64	Normal	-87	2.1	0.5	-88.6	-62	---
			Center	6985	Ceased	-66.69	2.1	0.5	-68.29	-62	PASS
			Center	6985	Minimal	-68.59	2.1	0.5	-70.19	-62	---
			Center	6985	Normal	-87	2.1	0.5	-88.6	-62	---
			High	7058.4	Ceased	-69.08	2.1	0.5	-70.68	-62	PASS
			High	7058.4	Minimal	-69	2.1	0.5	-70.6	-62	---
			High	7058.4	Normal	-87	2.1	0.5	-88.6	-62	---

Test Mode	Antenna	Channel	Interference Frequency [MHz]		T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	Rate [%]	Limit [%]	Verdict
11ax(HE 20)	Ant2	6175	Center	6175	1	1	1	1	1	1	1	1	1	0	90	90	PASS
		6435	Center	6435	1	1	1	1	1	1	1	1	1	1	100	90	PASS
		6535	Center	6535	1	1	1	1	1	1	1	1	1	1	100	90	PASS
		6895	Center	6895	1	1	1	1	1	1	1	1	1	1	100	90	PASS
11ax(HE 160)	Ant2	6345	Low	6271.28	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			Center	6345	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			High	6419.04	1	1	1	1	1	1	1	1	1	1	100	90	PASS
		6505	Low	6431.28	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			Center	6505	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			High	6578.72	1	1	1	1	1	1	1	1	1	1	100	90	PASS
		6665	Low	6591.28	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			Center	6665	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			High	6738.72	1	1	1	1	1	1	1	1	1	1	100	90	PASS
		6985	Low	6910.64	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			Center	6985	1	1	1	1	1	1	1	1	1	1	100	90	PASS
			High	7058.4	1	1	1	1	1	1	1	1	1	1	100	90	PASS

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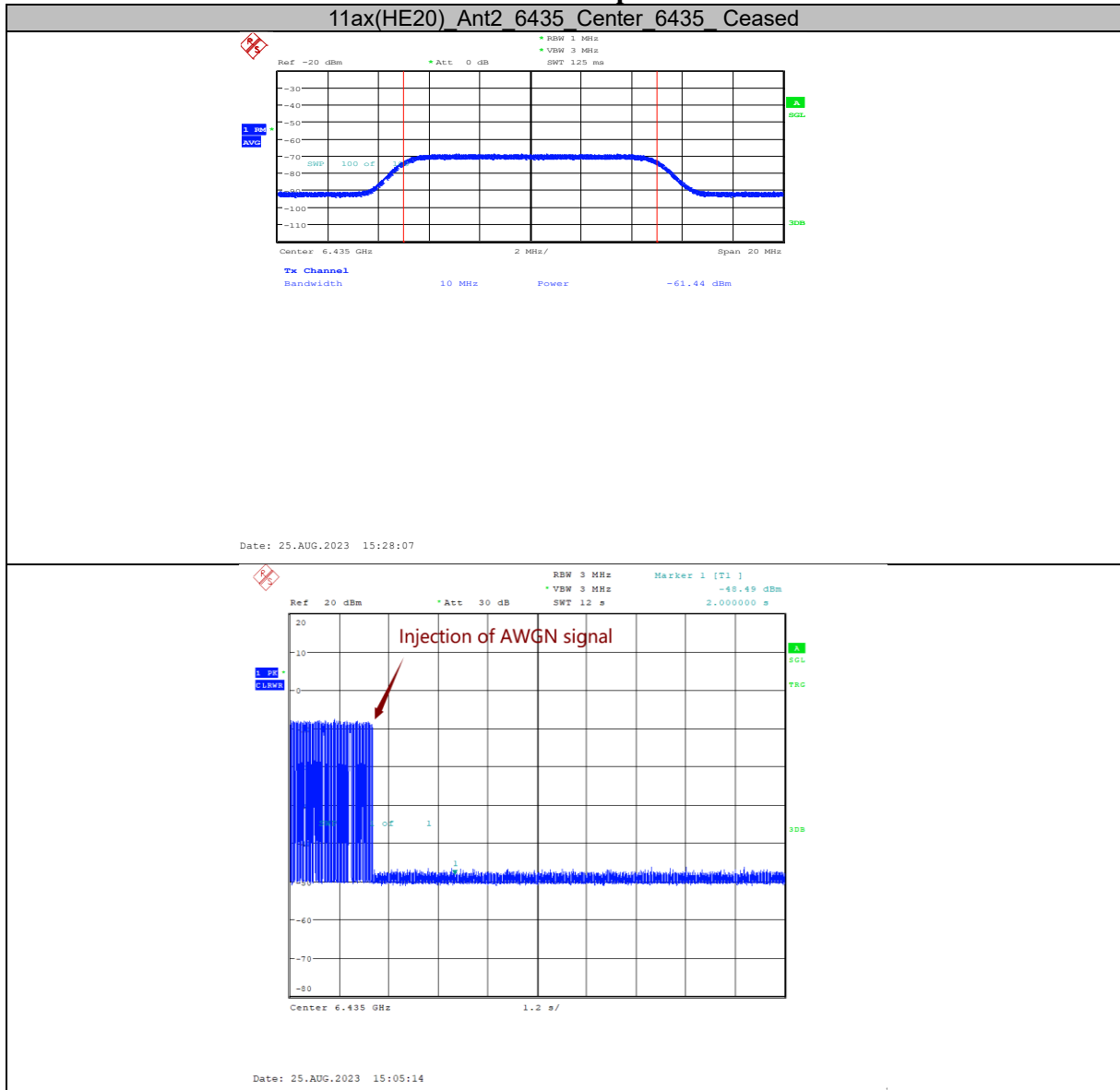
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Tel: 0086-23-88069965 FAX: 0086-23-88608777

Test graphs



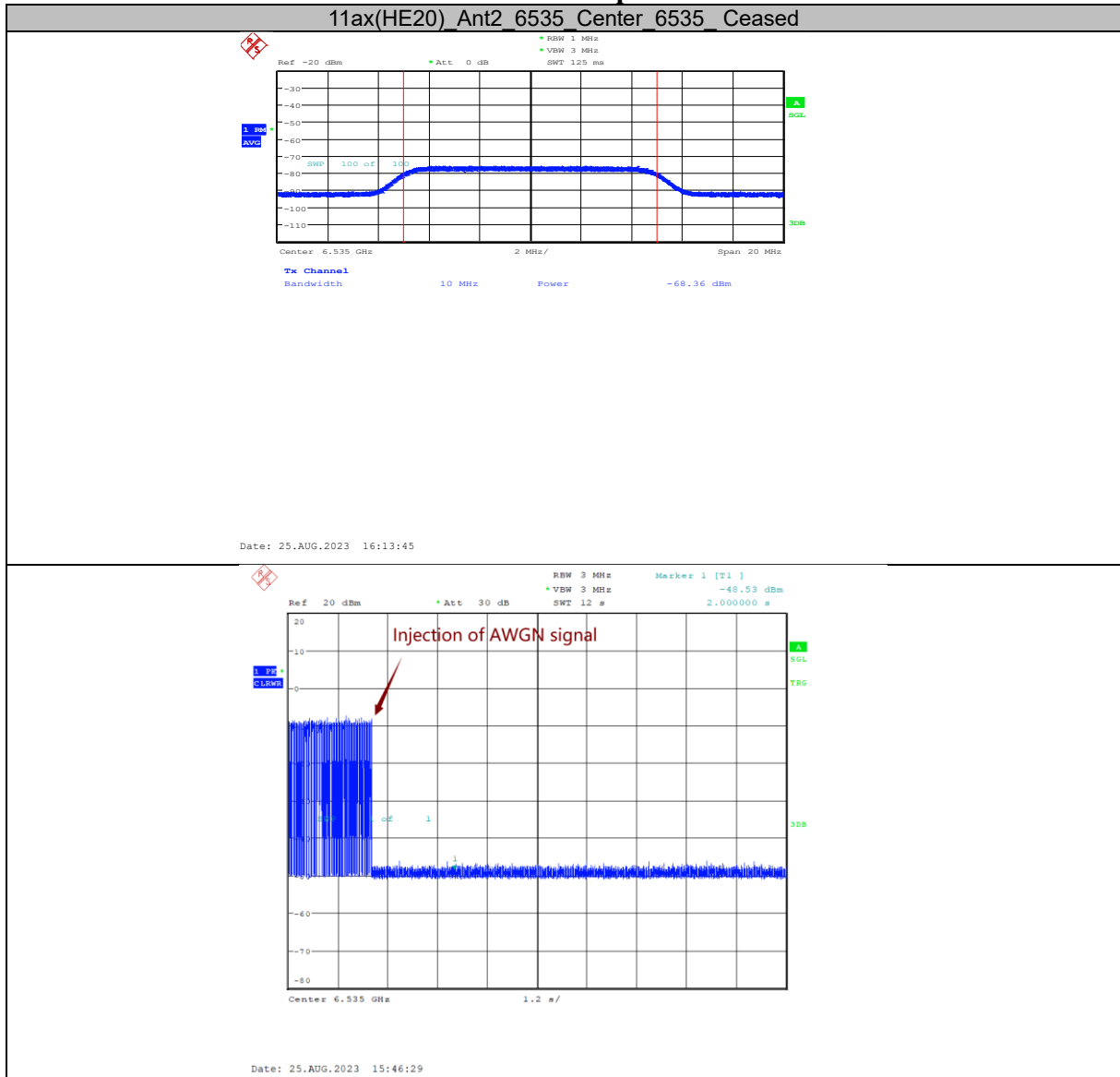
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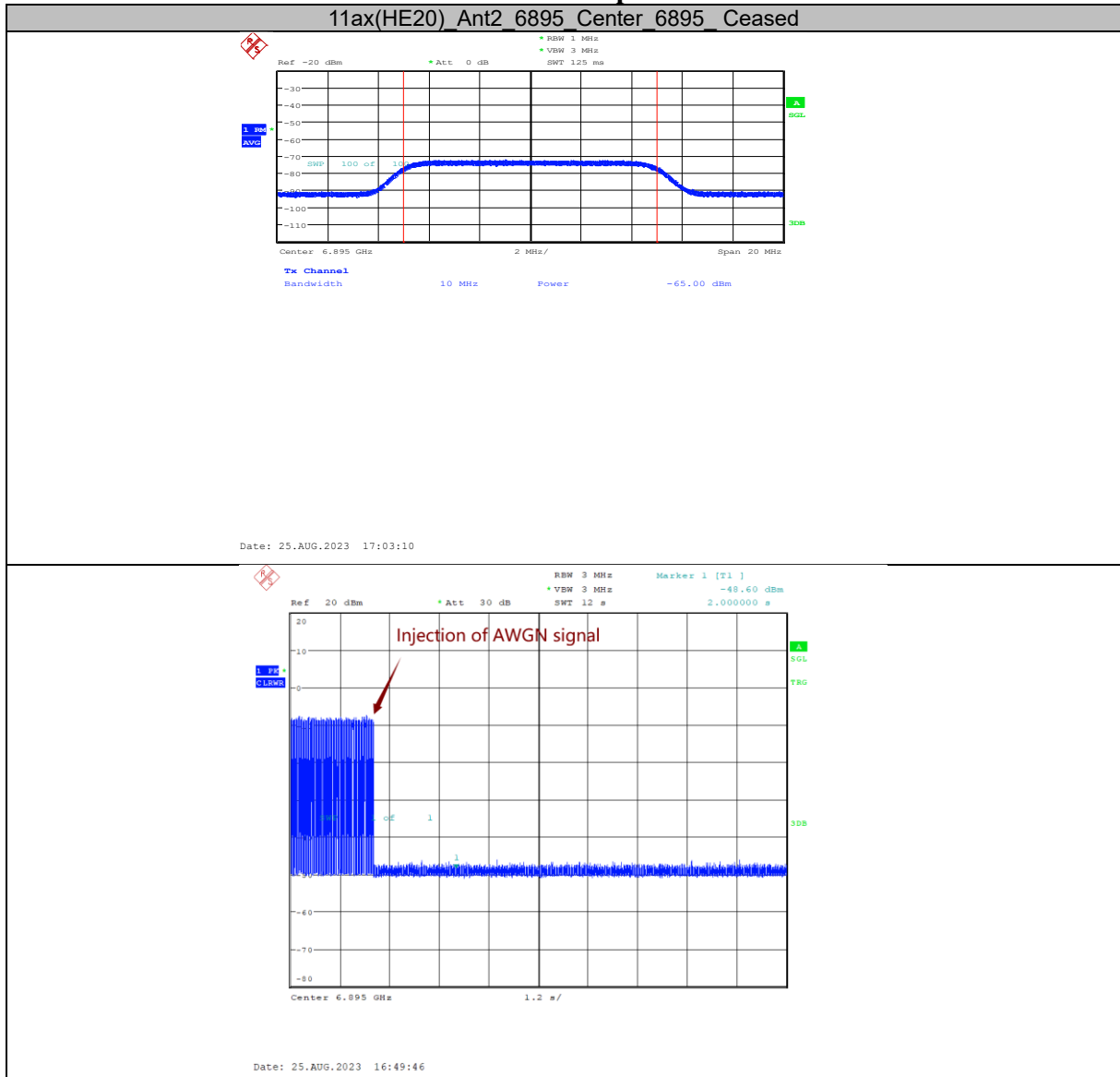
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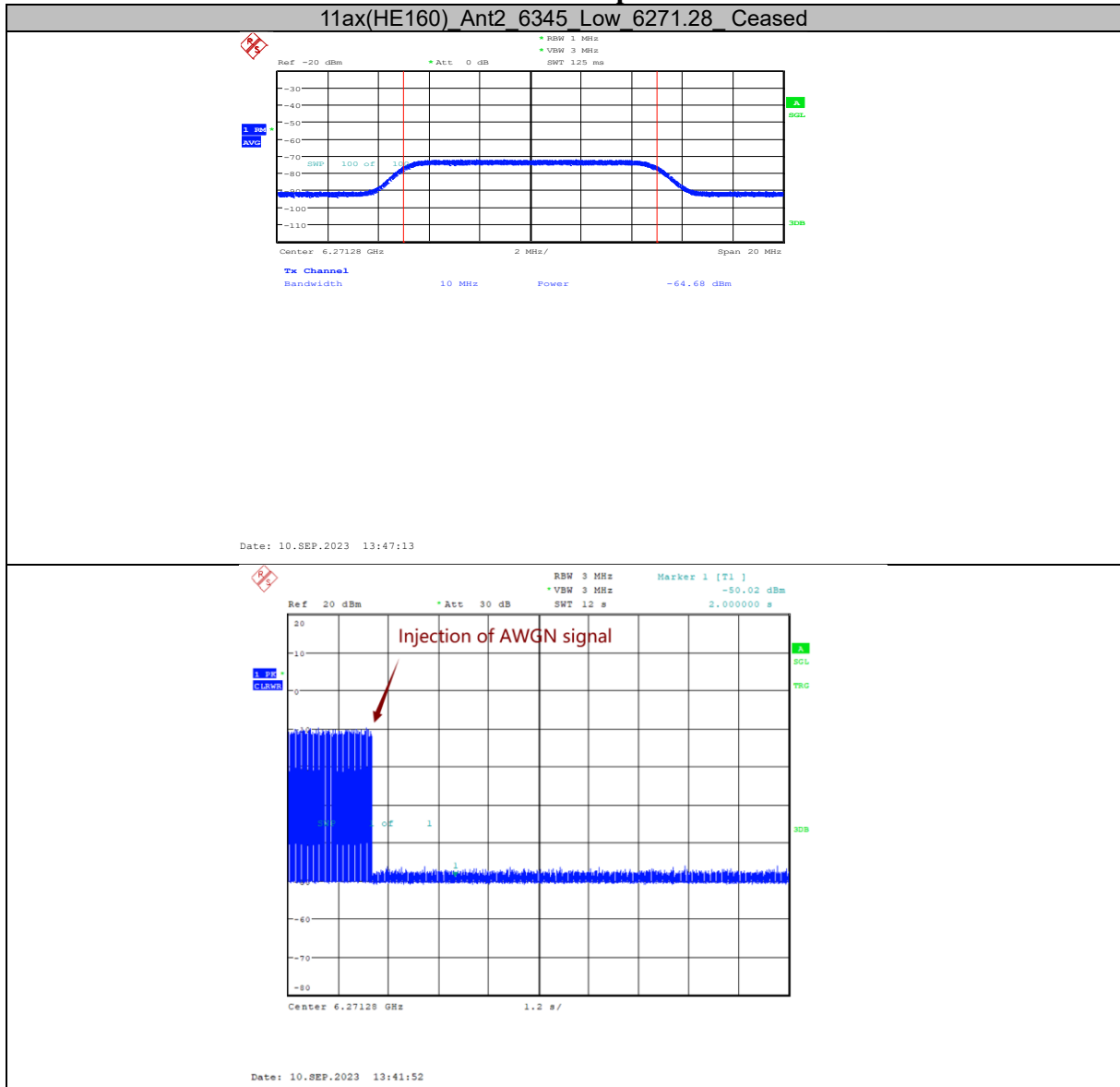
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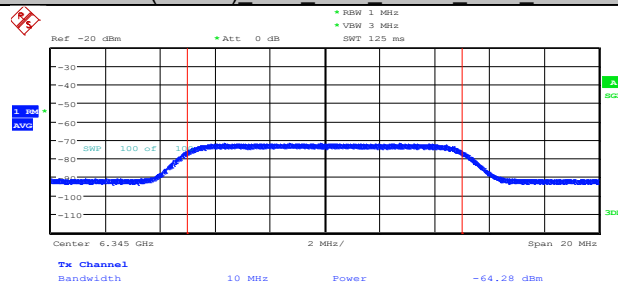
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
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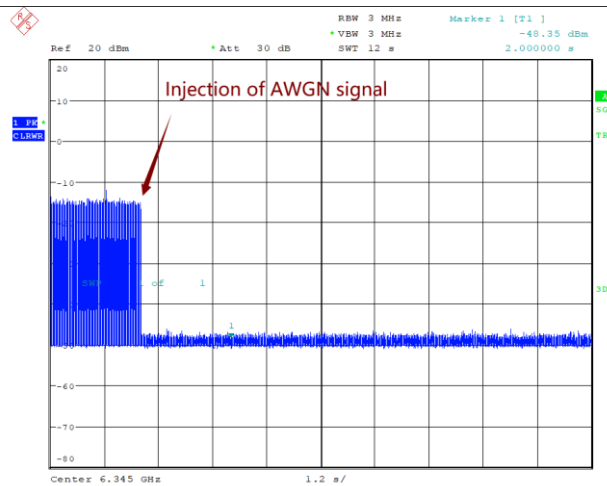


Report No.: I23W00036-WIFI 6E RF-FCC

11ax(HE160) Ant2_6345 Center_6345_Ceased



Date: 10.SEP.2023 14:24:04

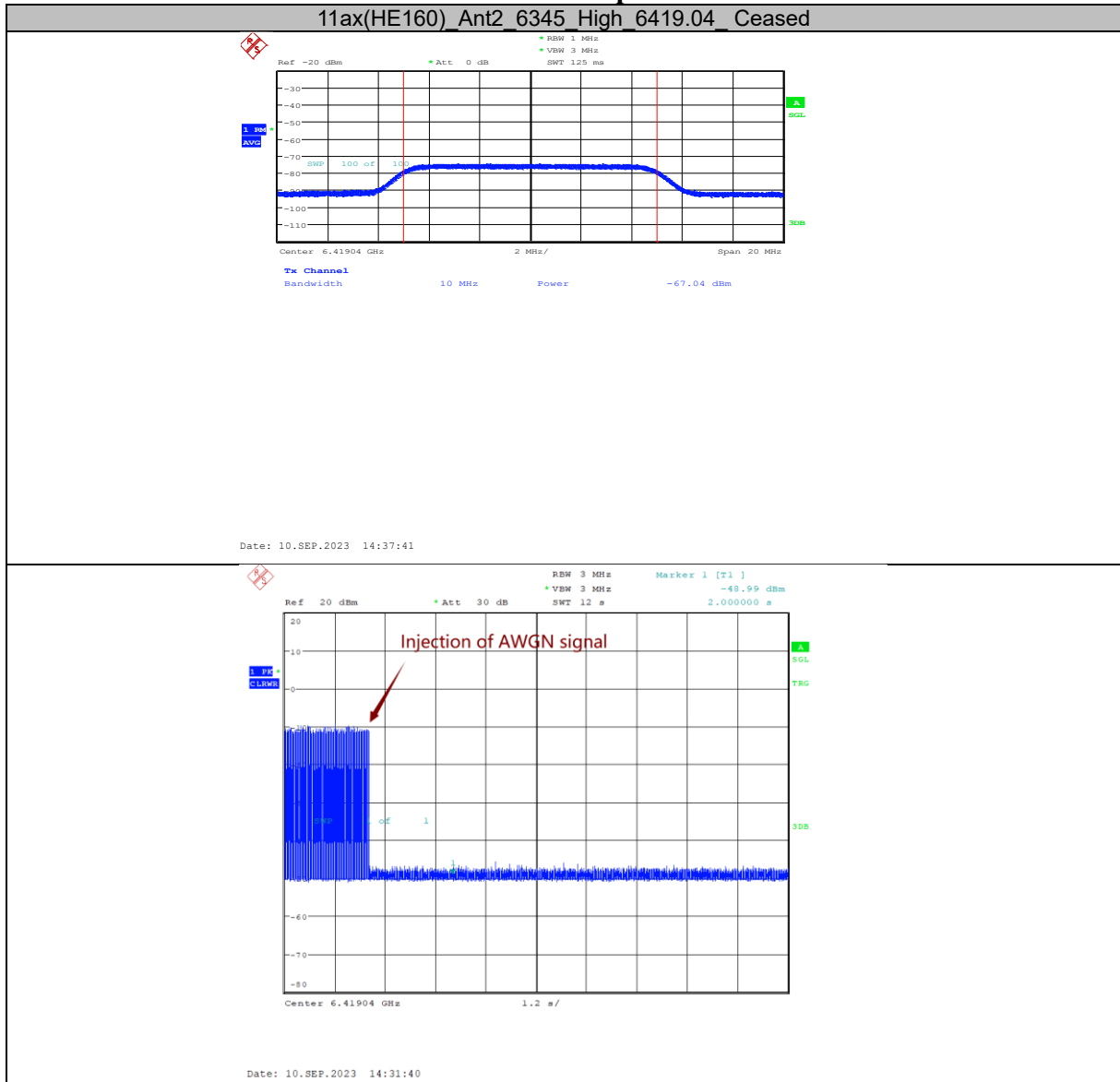


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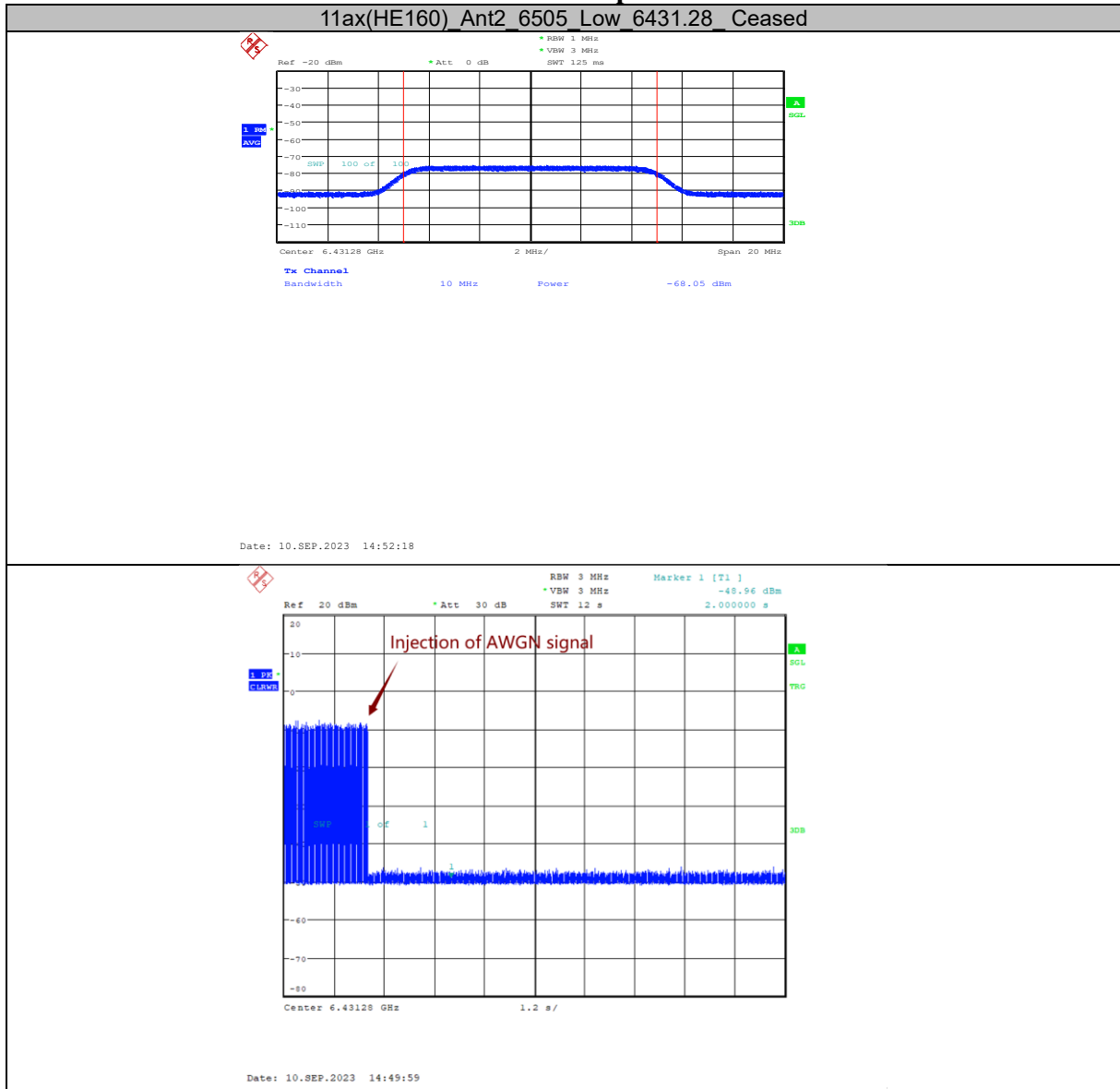
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.: I23W00036-WIFI 6E RF-FCC



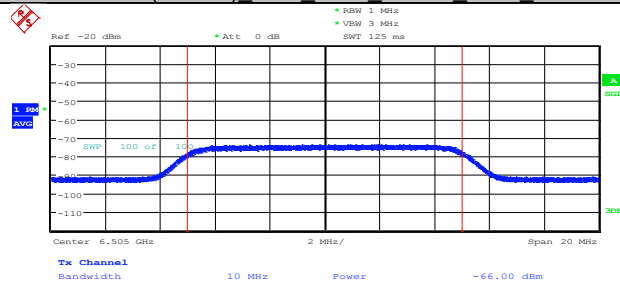
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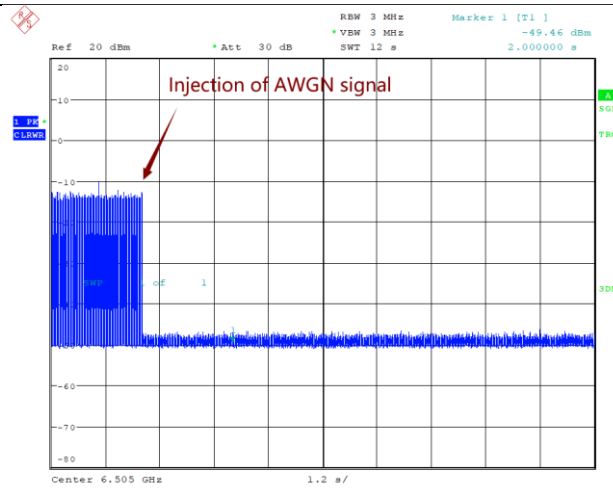


Report No.: I23W00036-WIFI 6E RF-FCC

11ax(HE160) Ant2_6505 Center 6505 Ceased



Date: 10.SEP.2023 15:20:34



Date: 10.SEP.2023 15:02:42

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