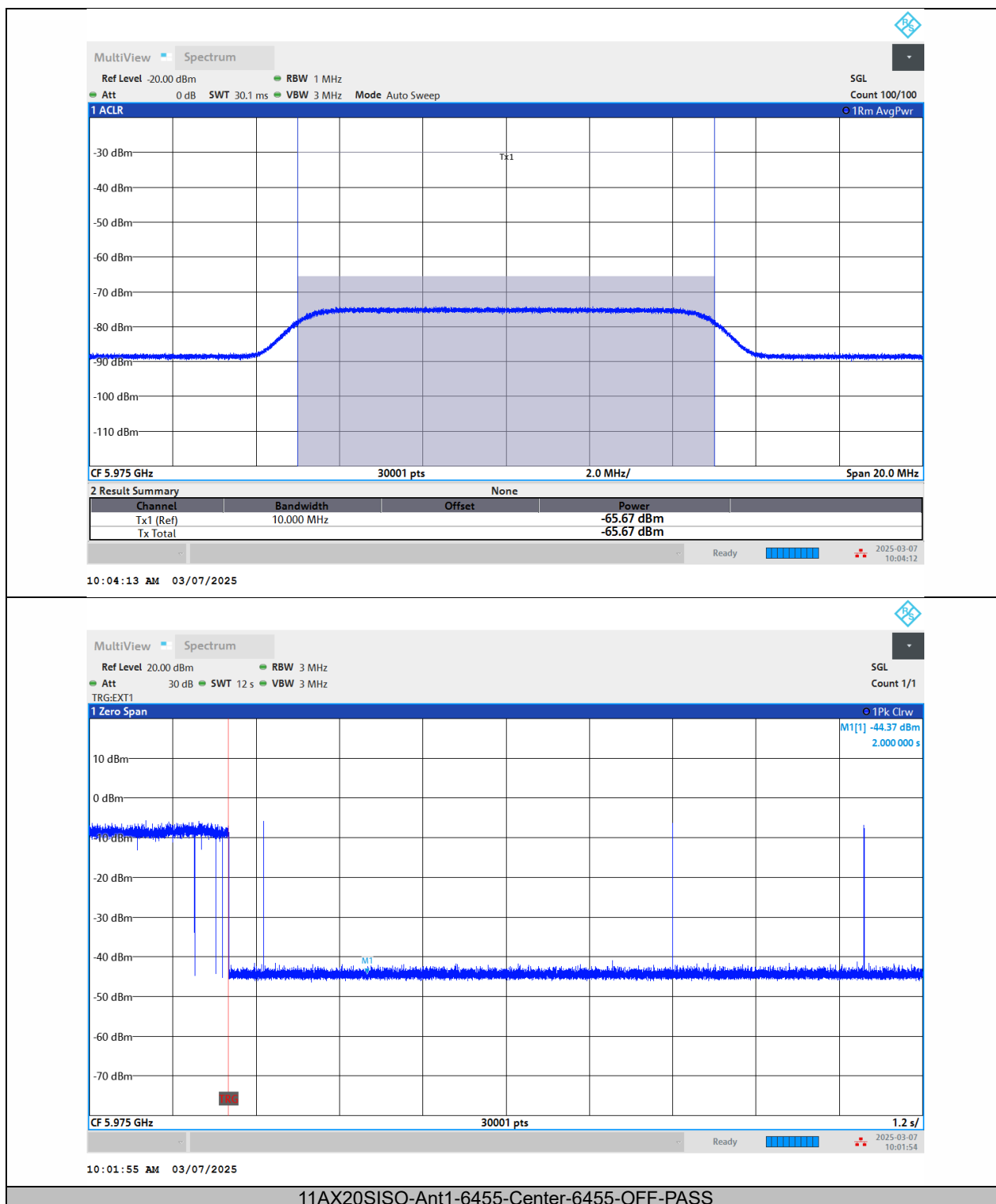
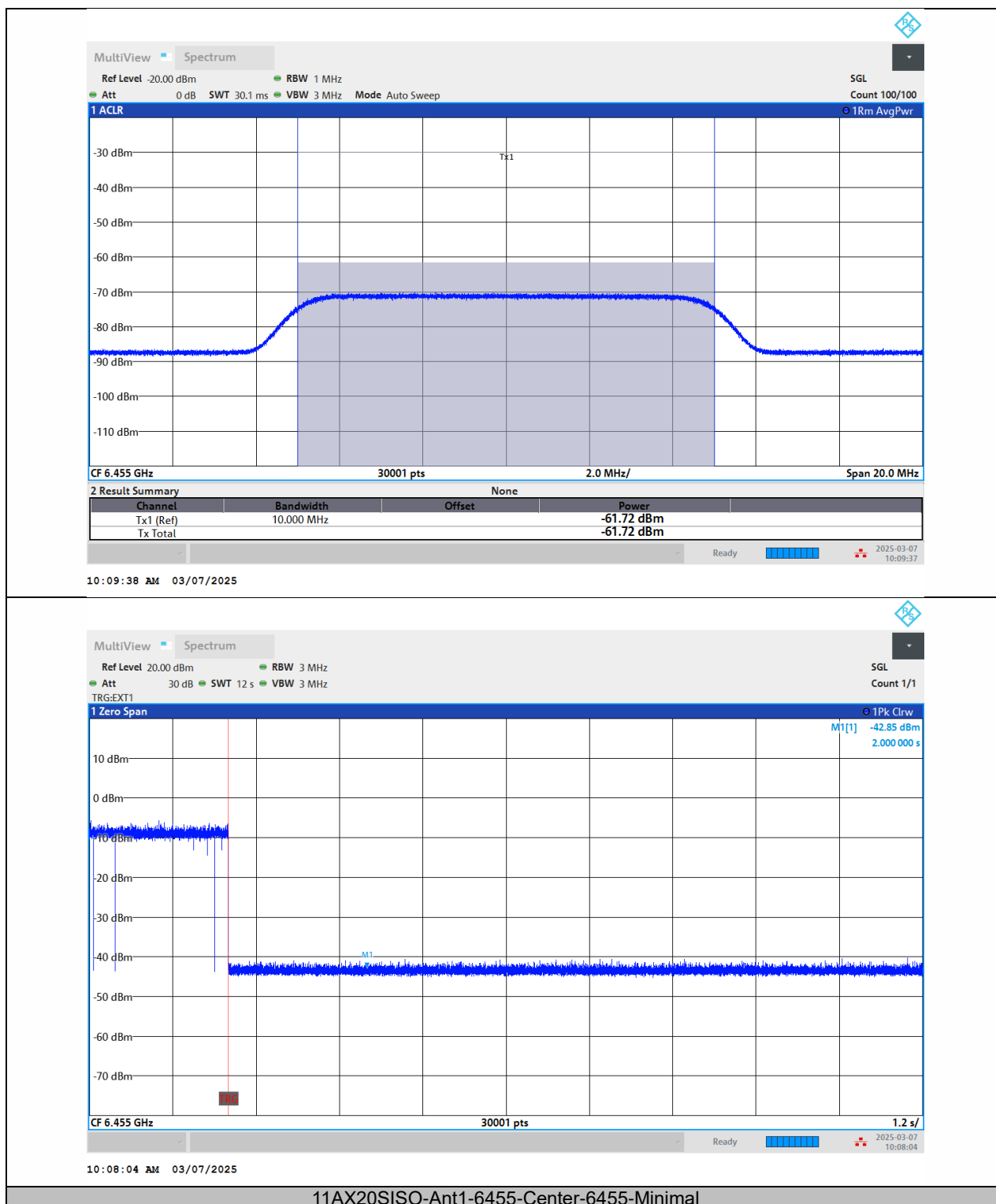
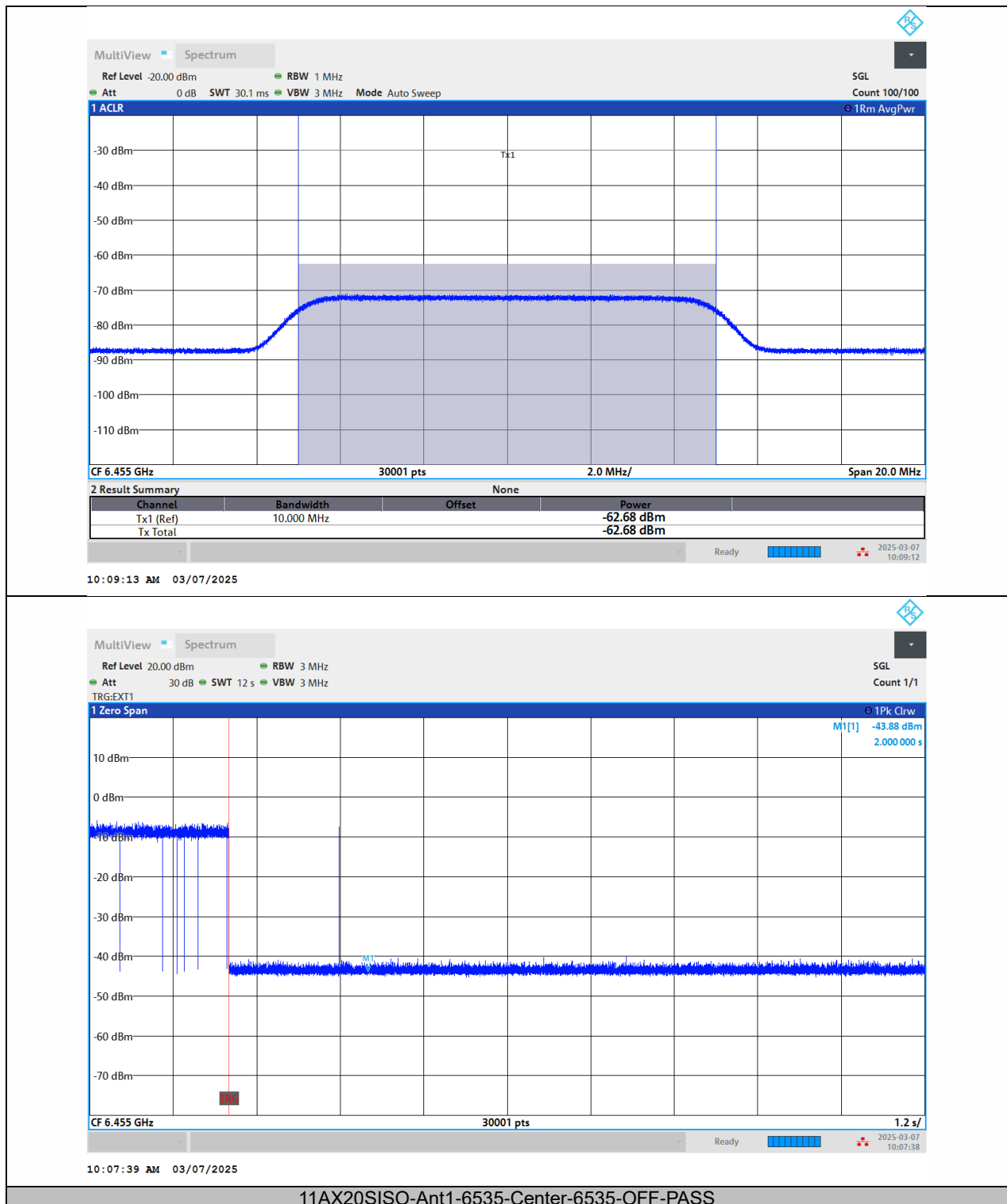
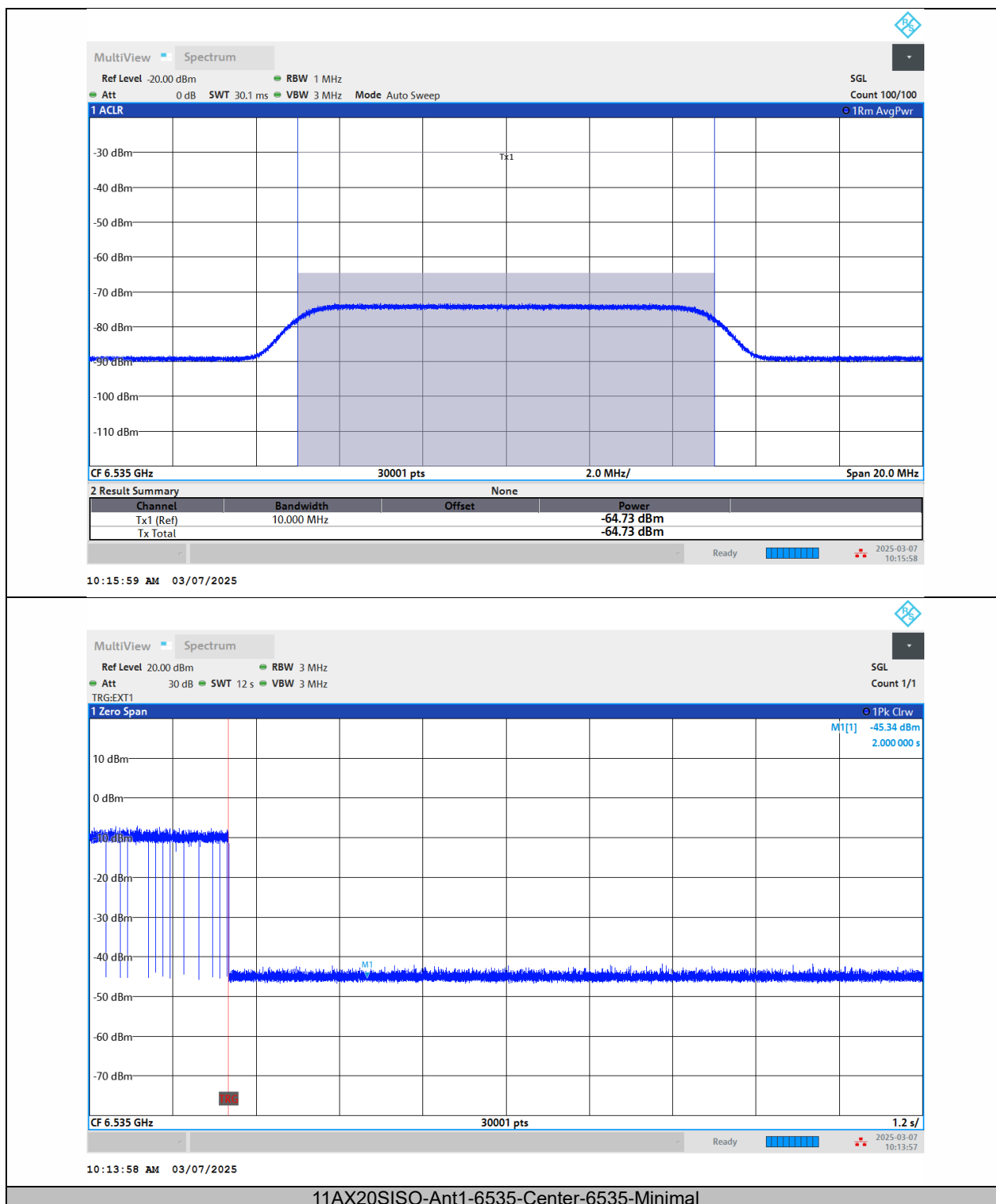


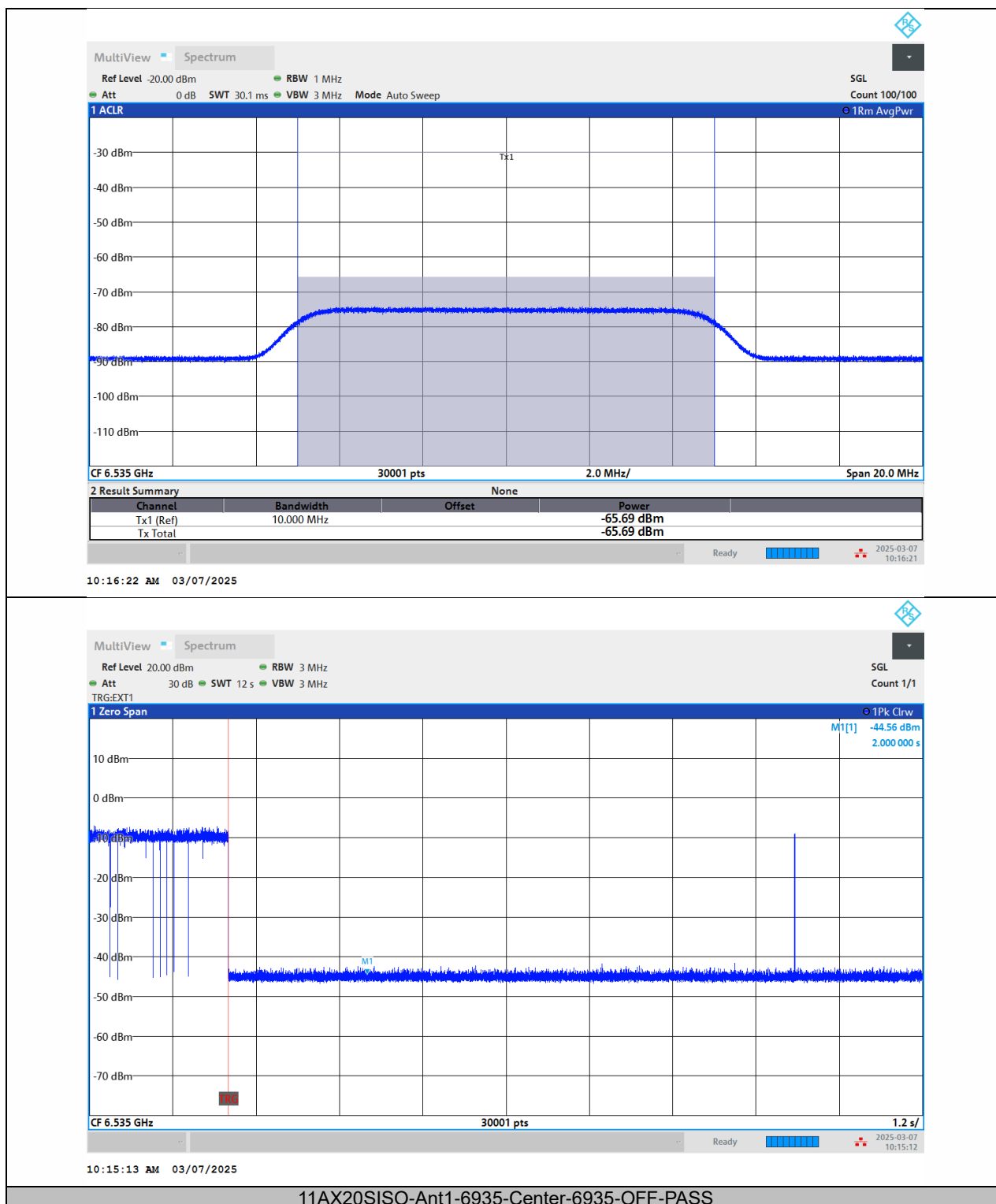


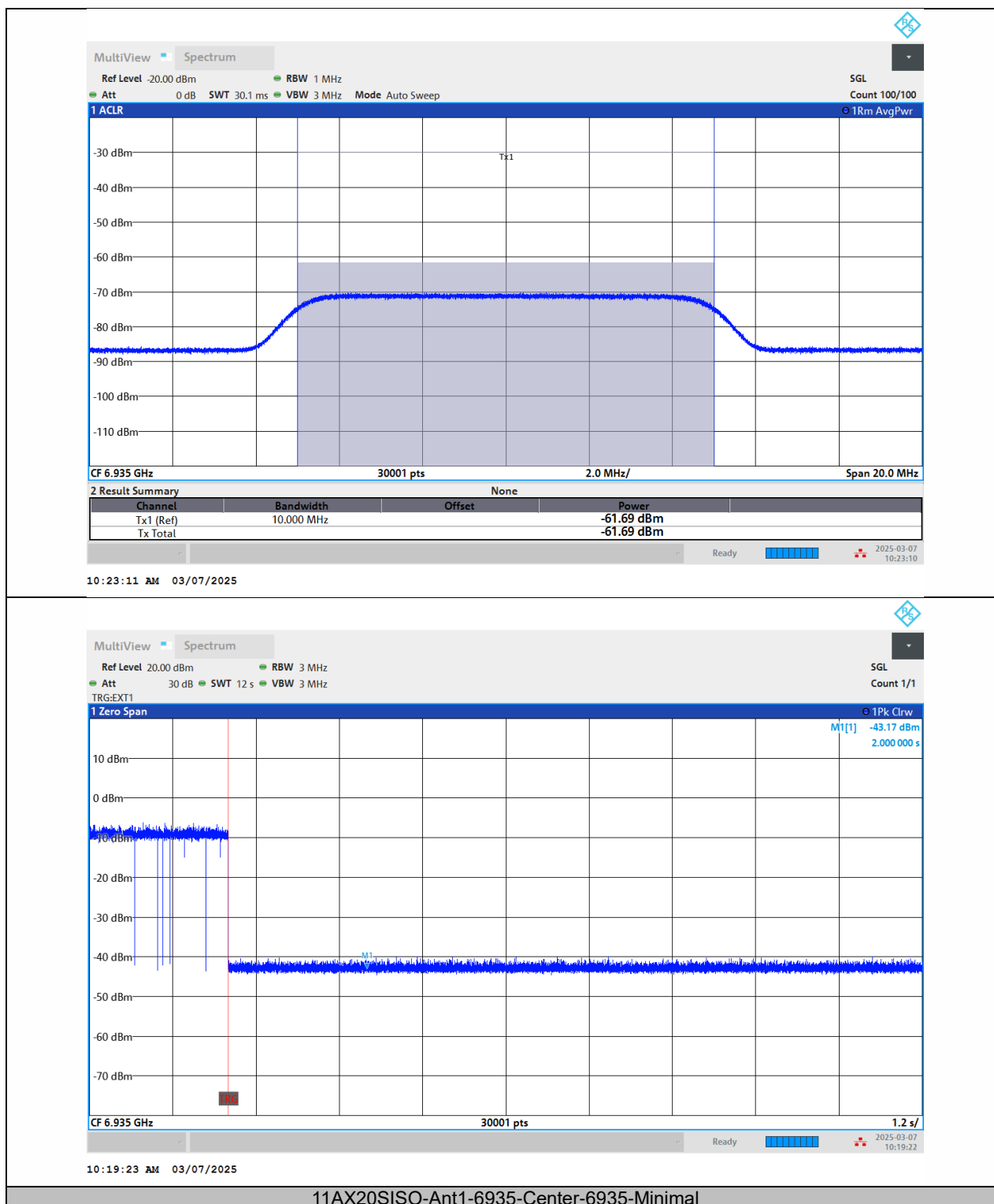


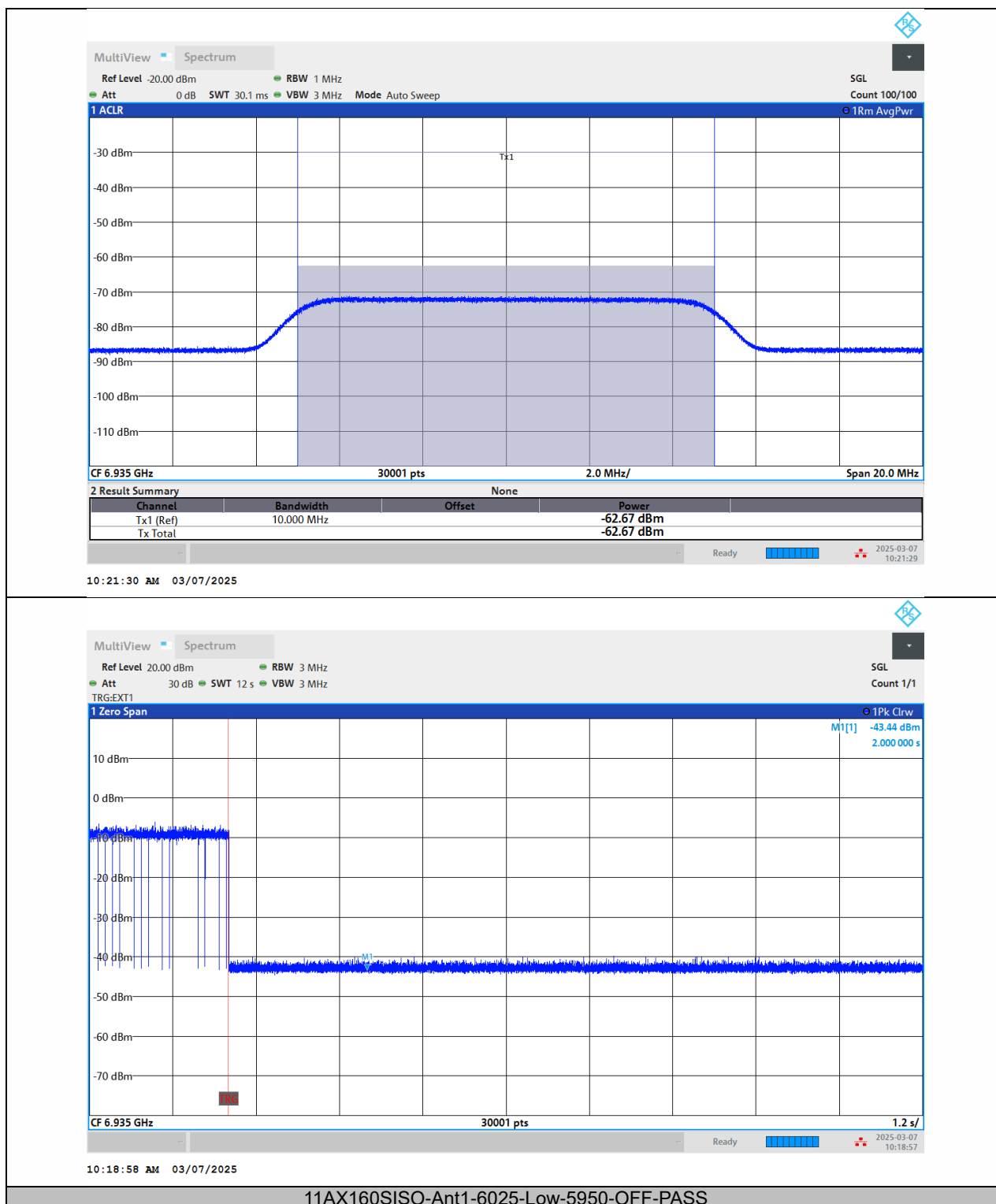
11AX20SISO-Ant1-6455-Center-6455-Minimal

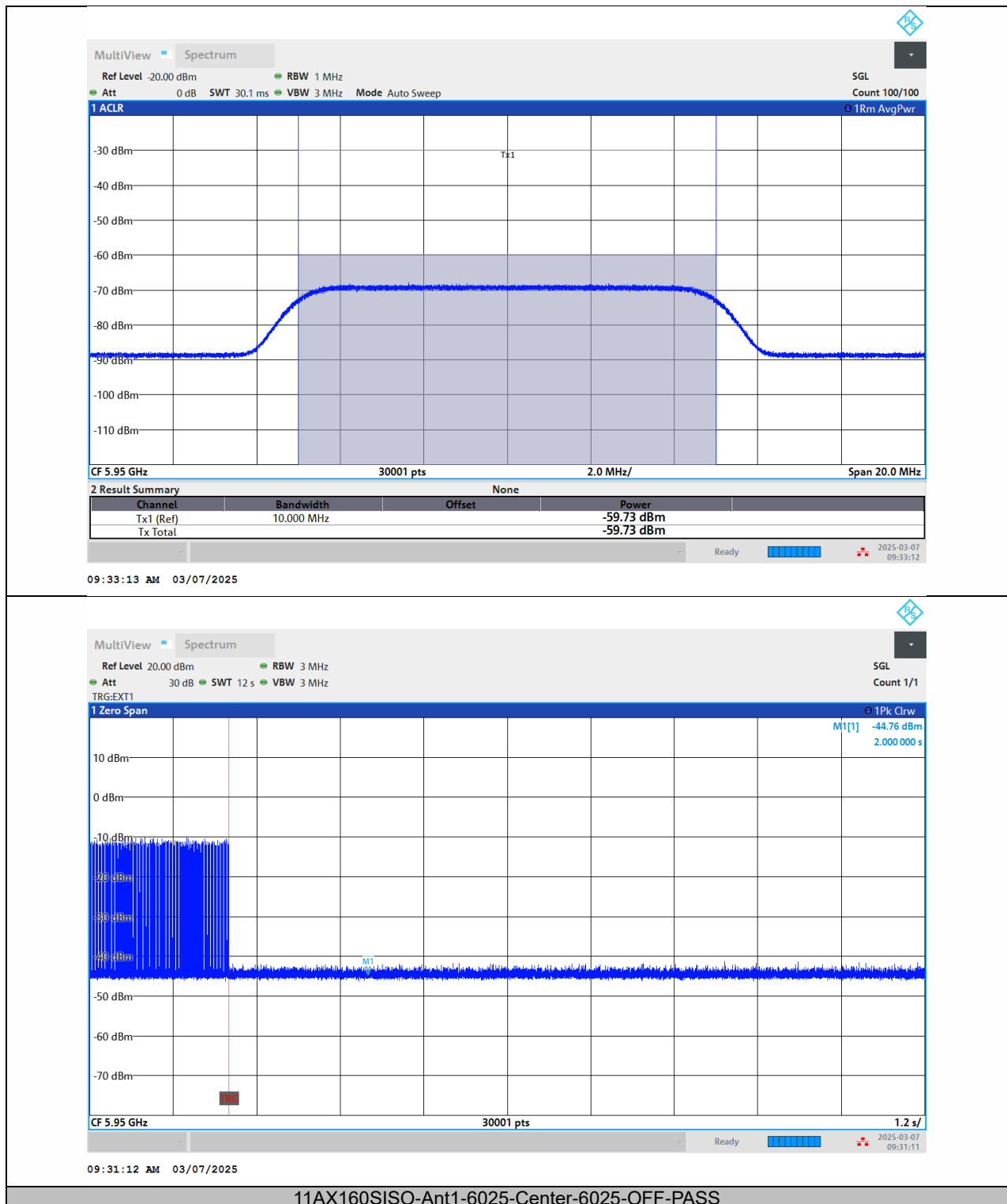


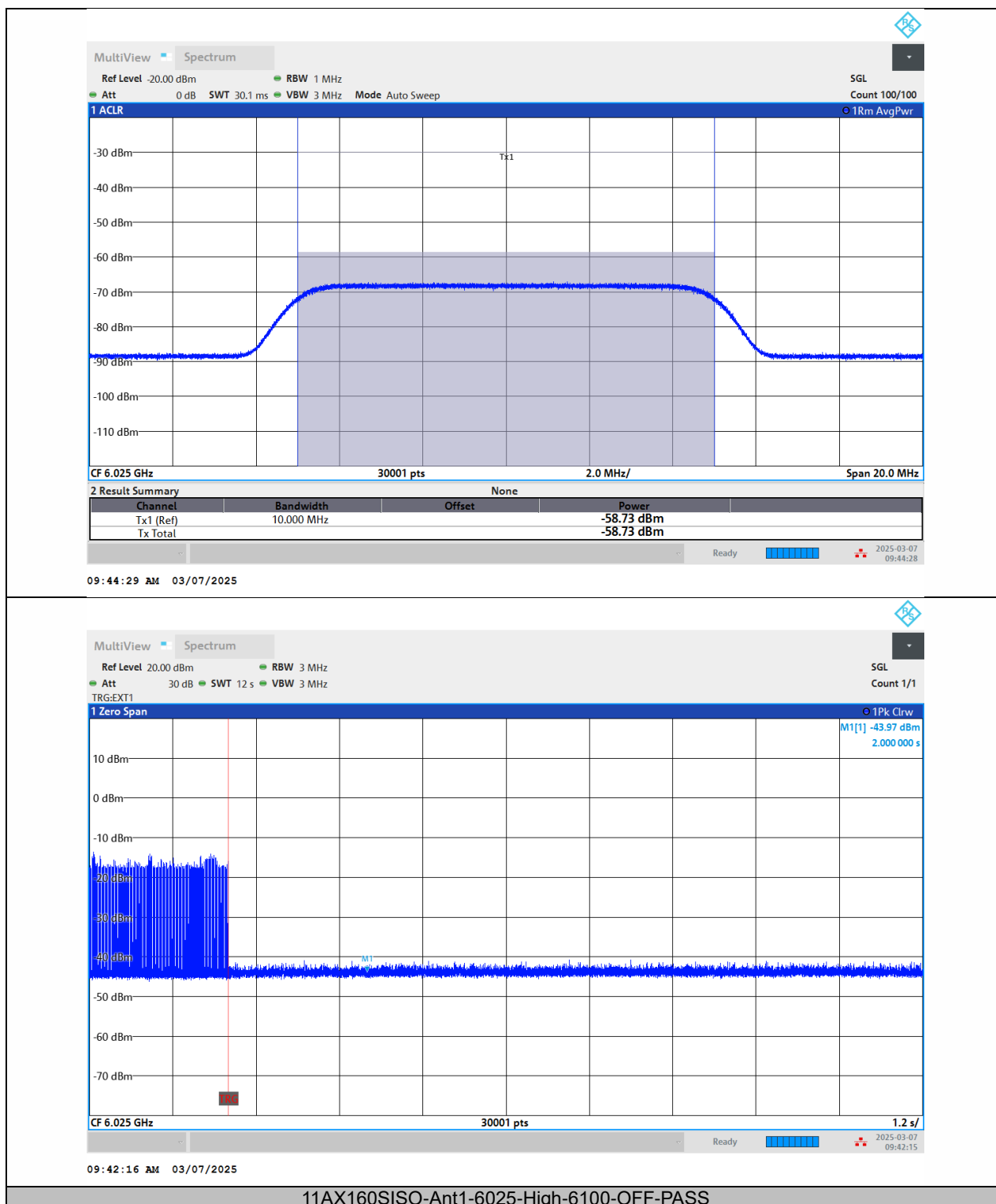


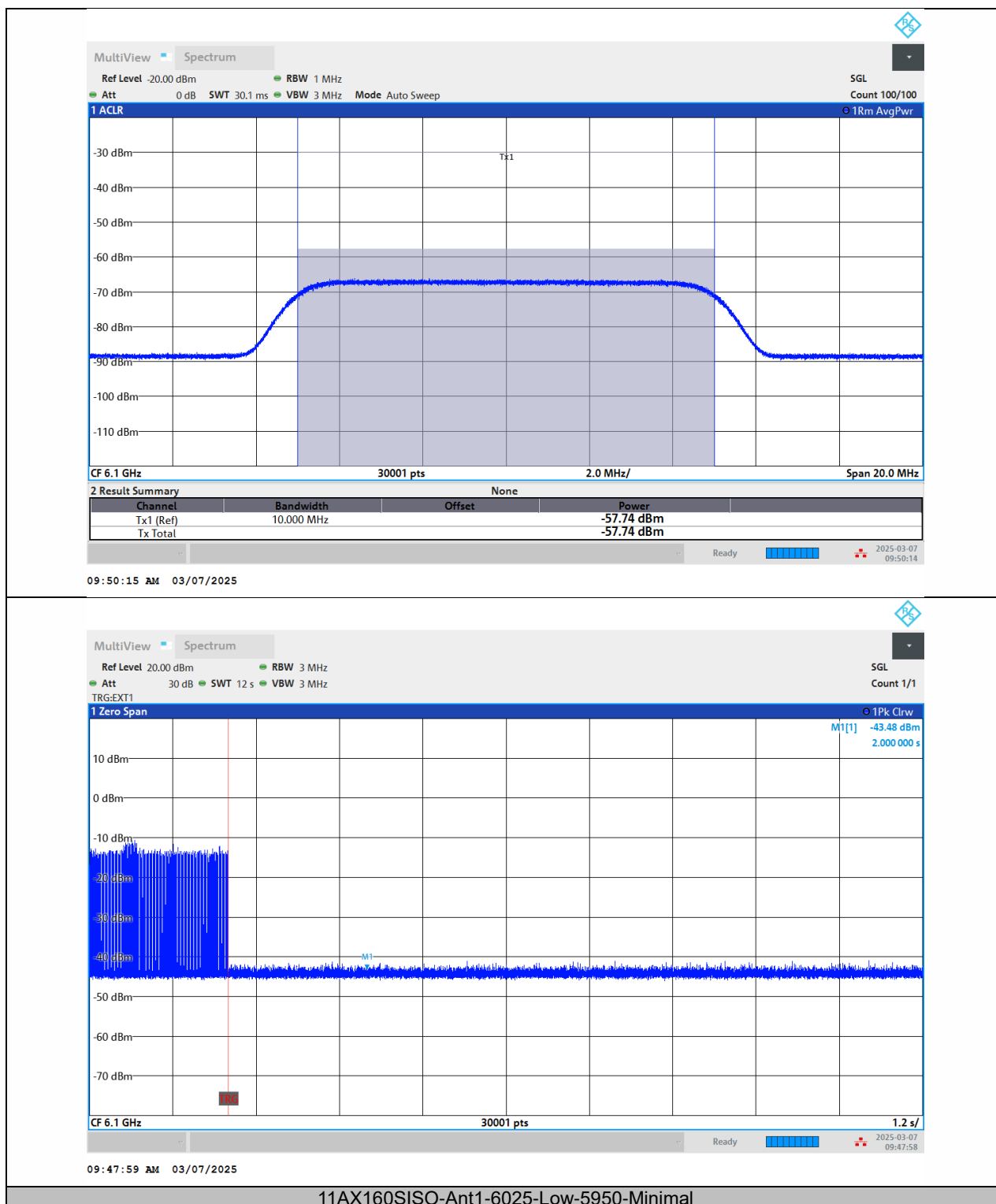


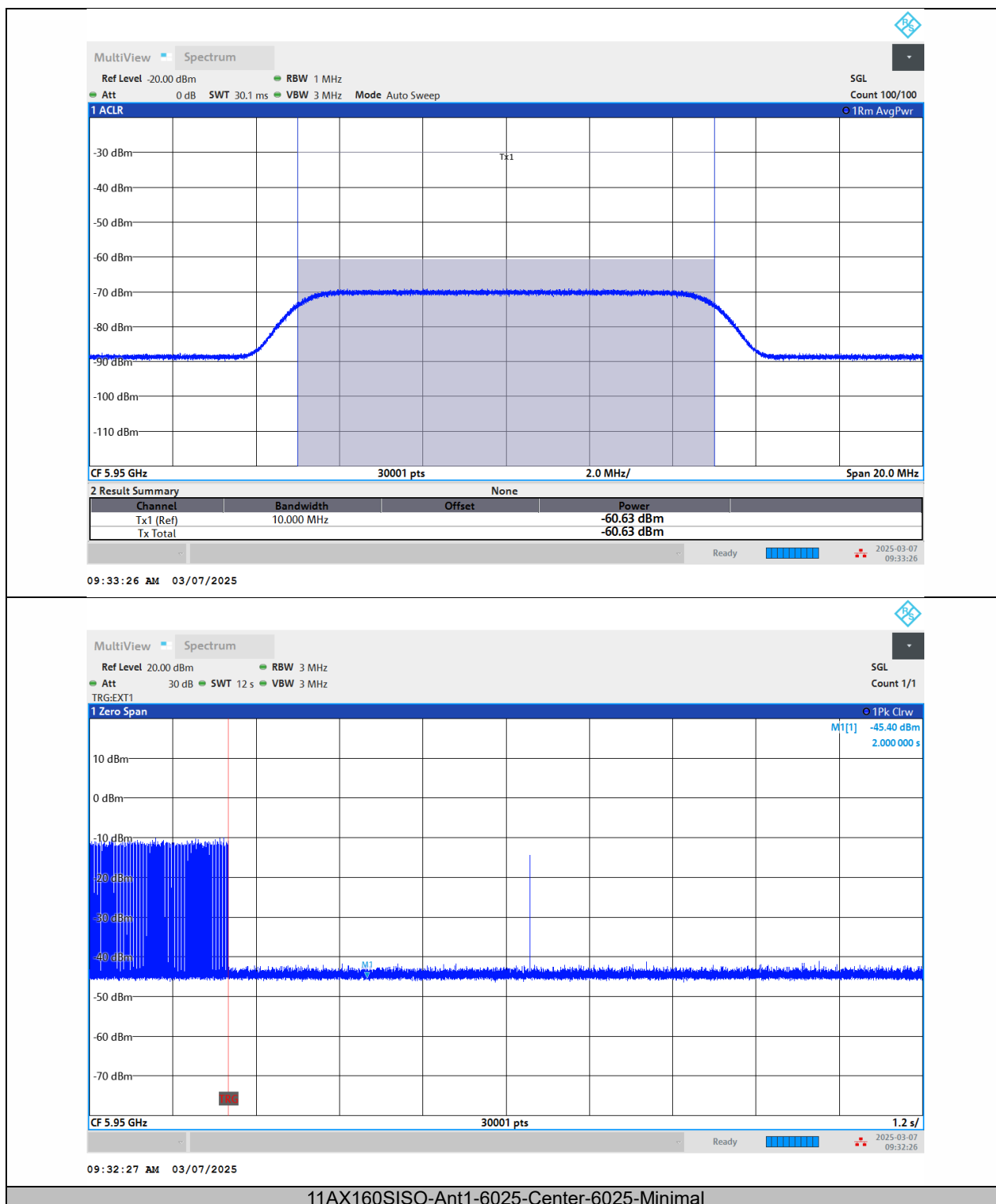


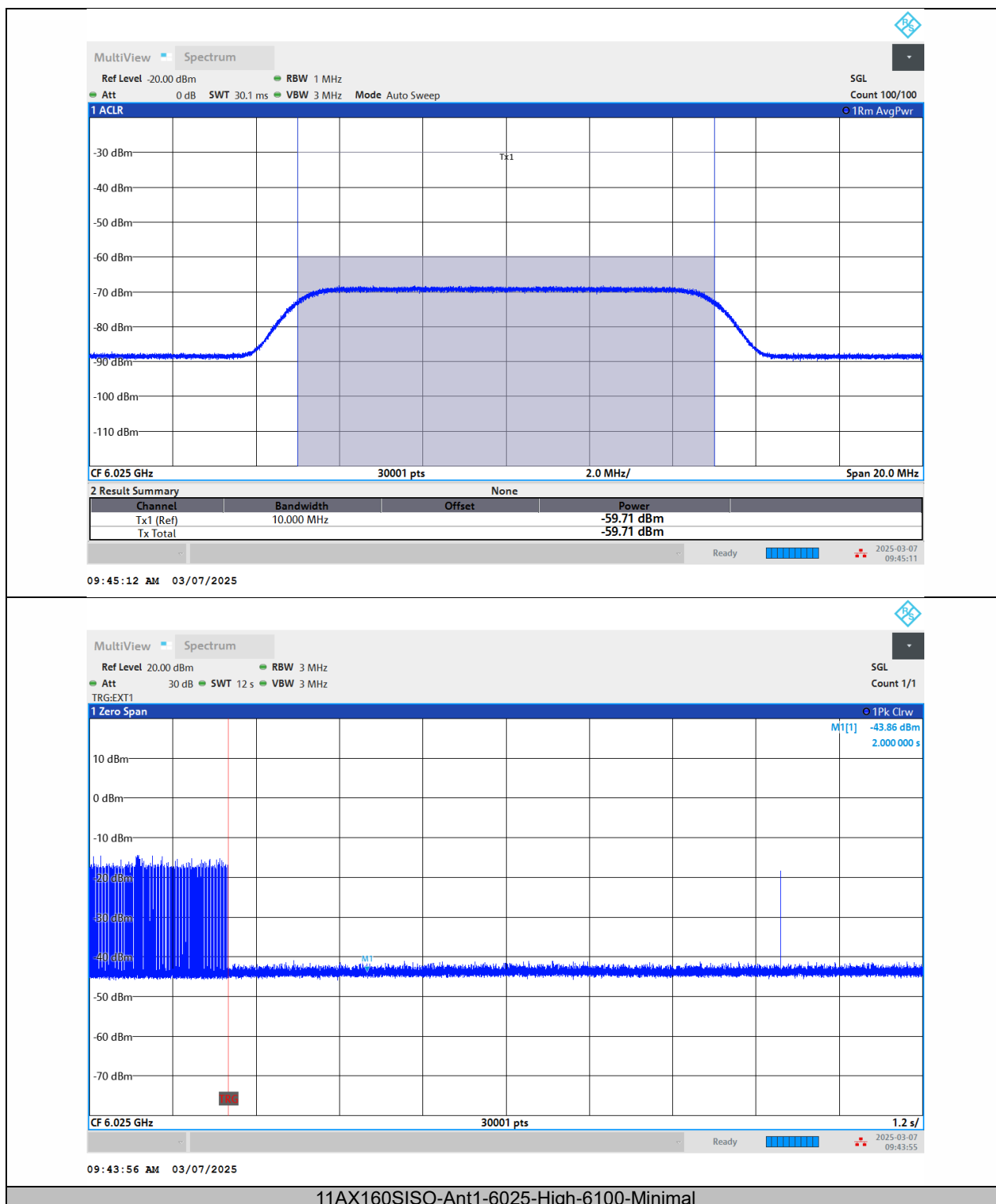


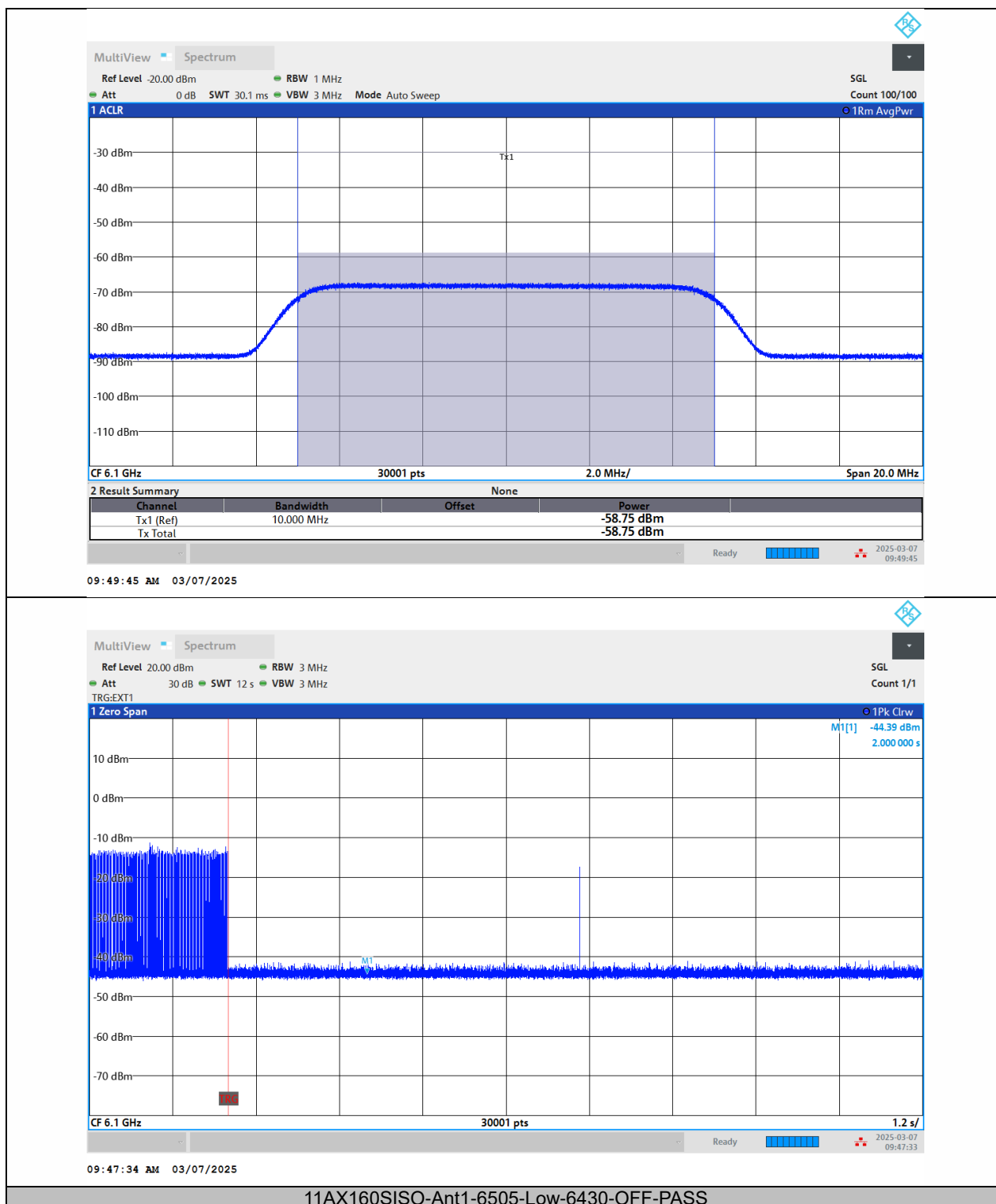


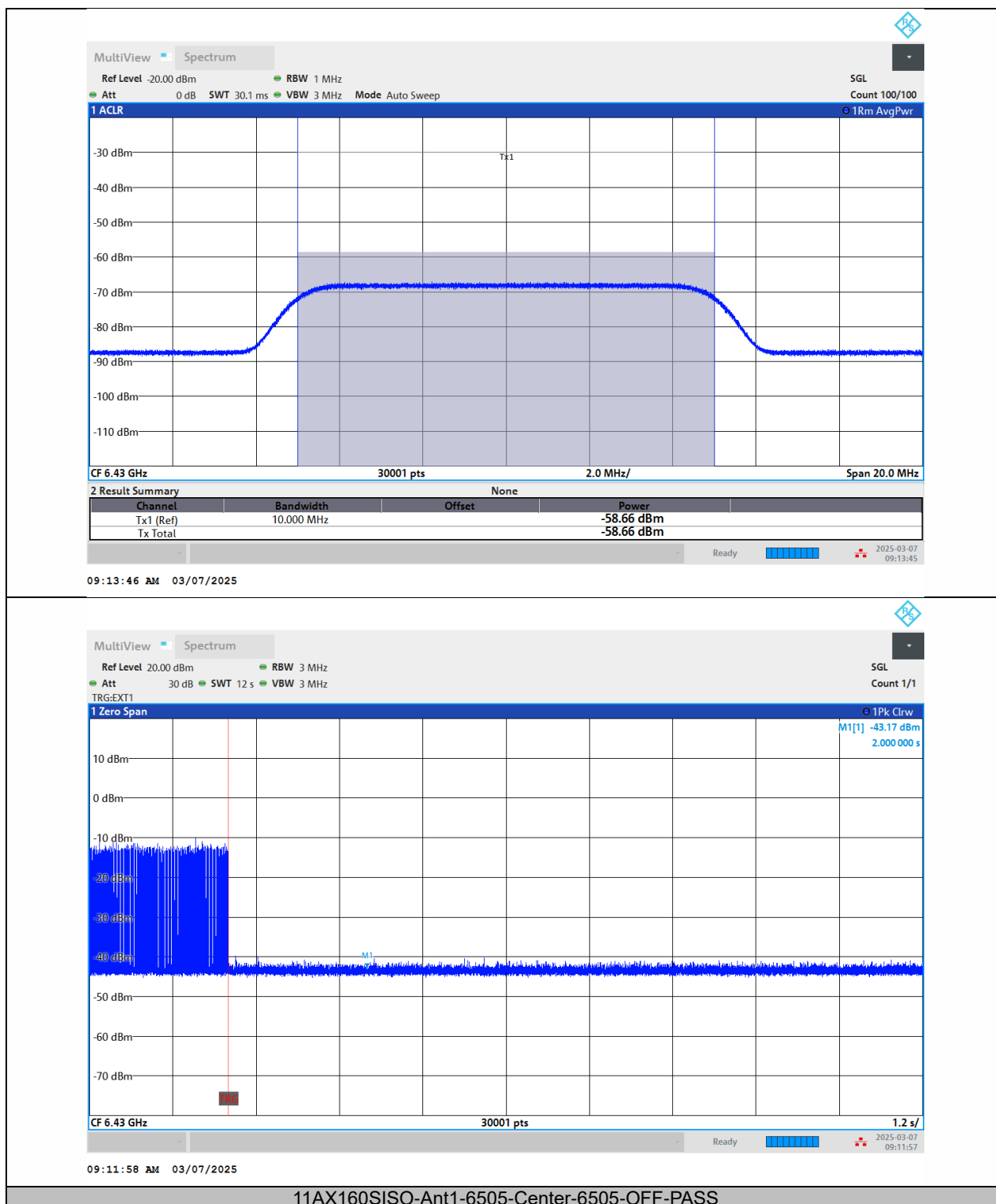




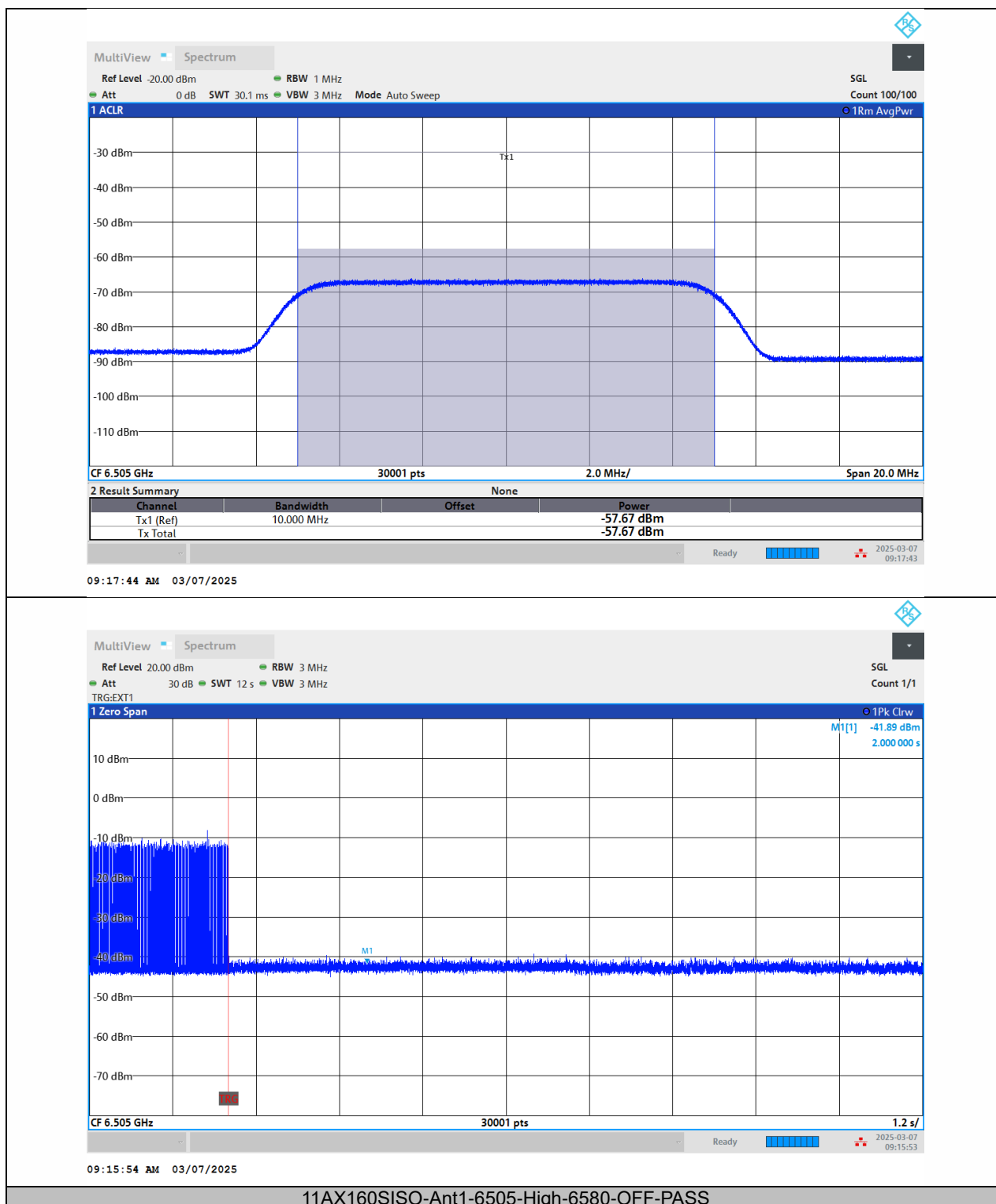


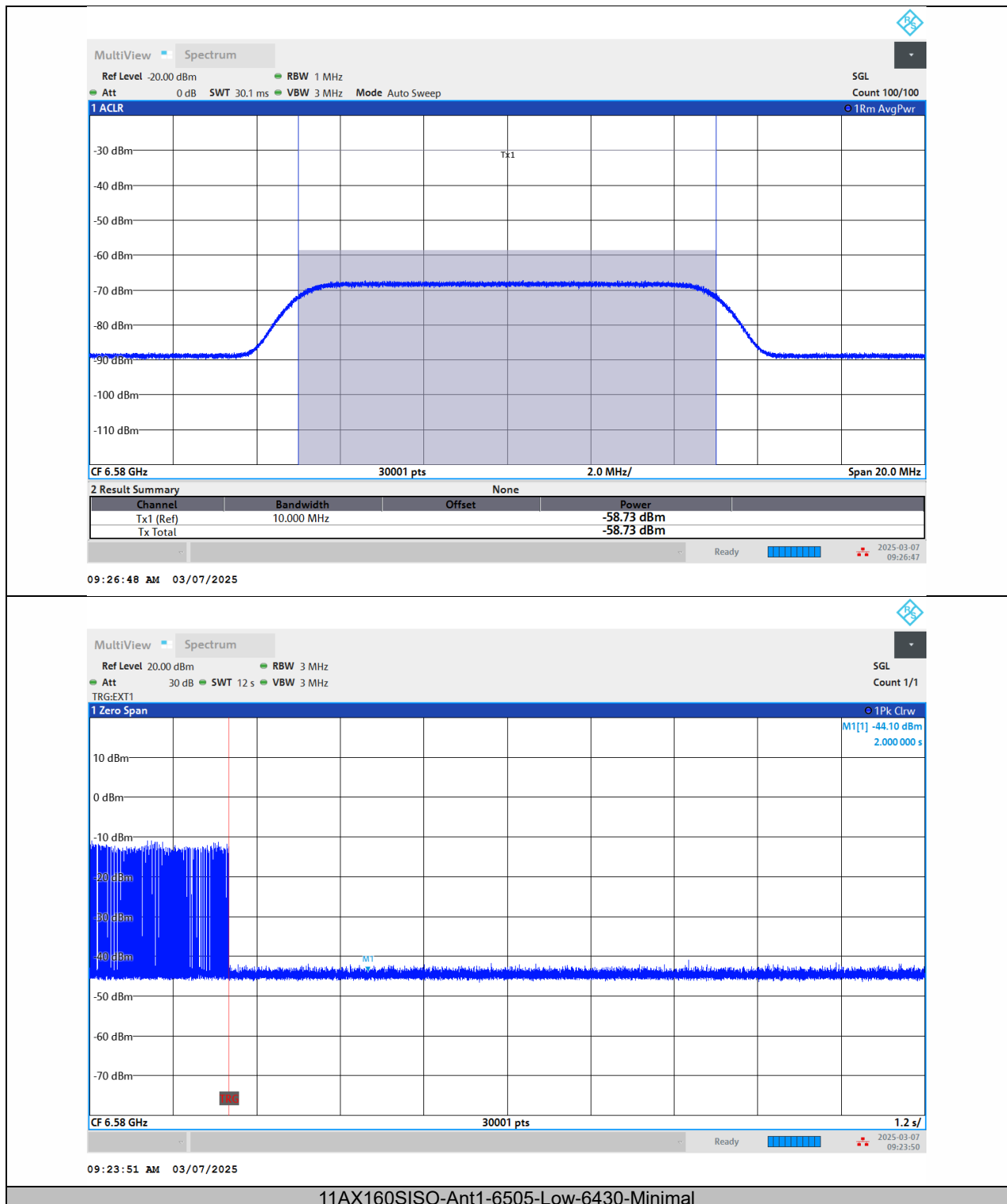


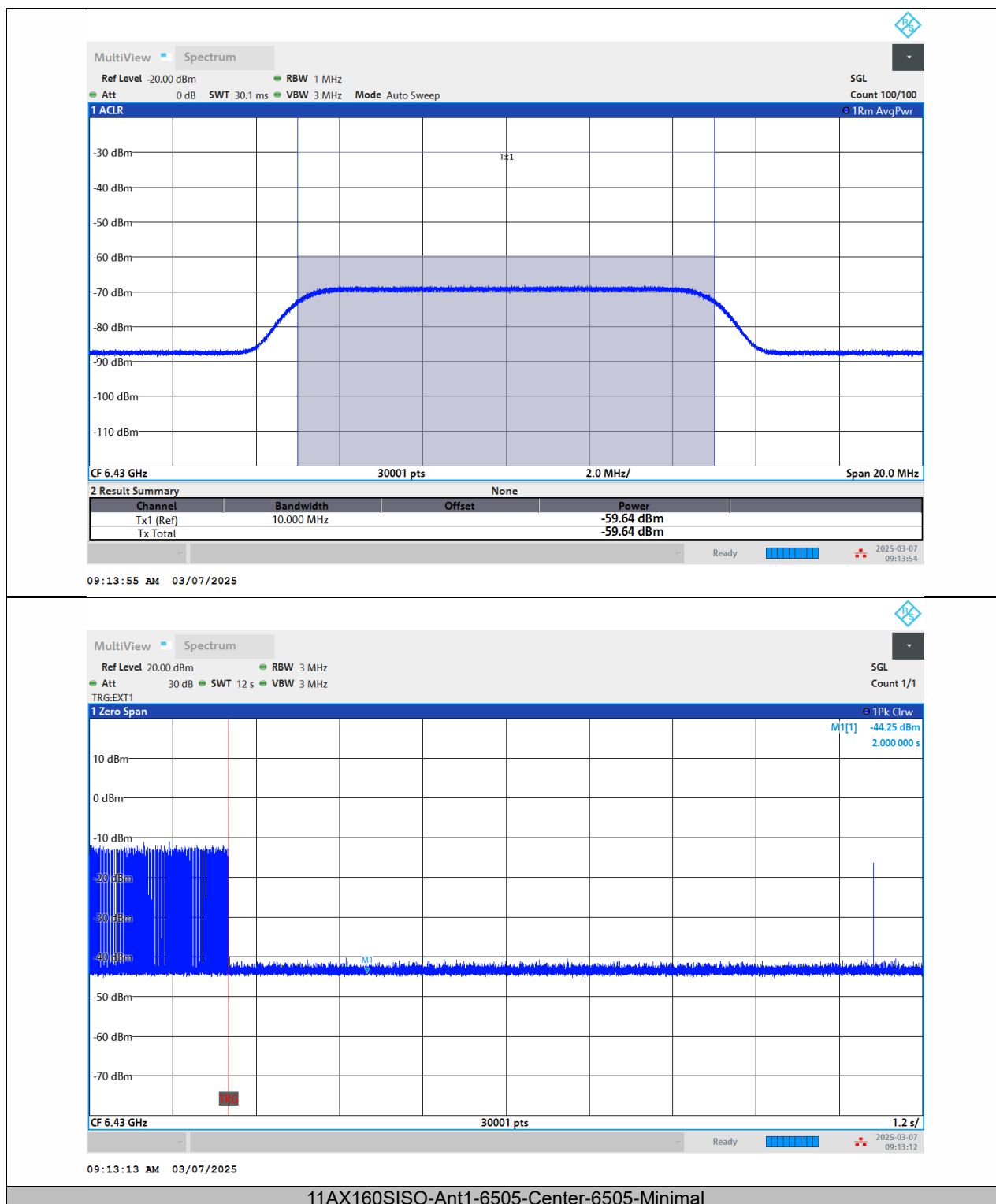




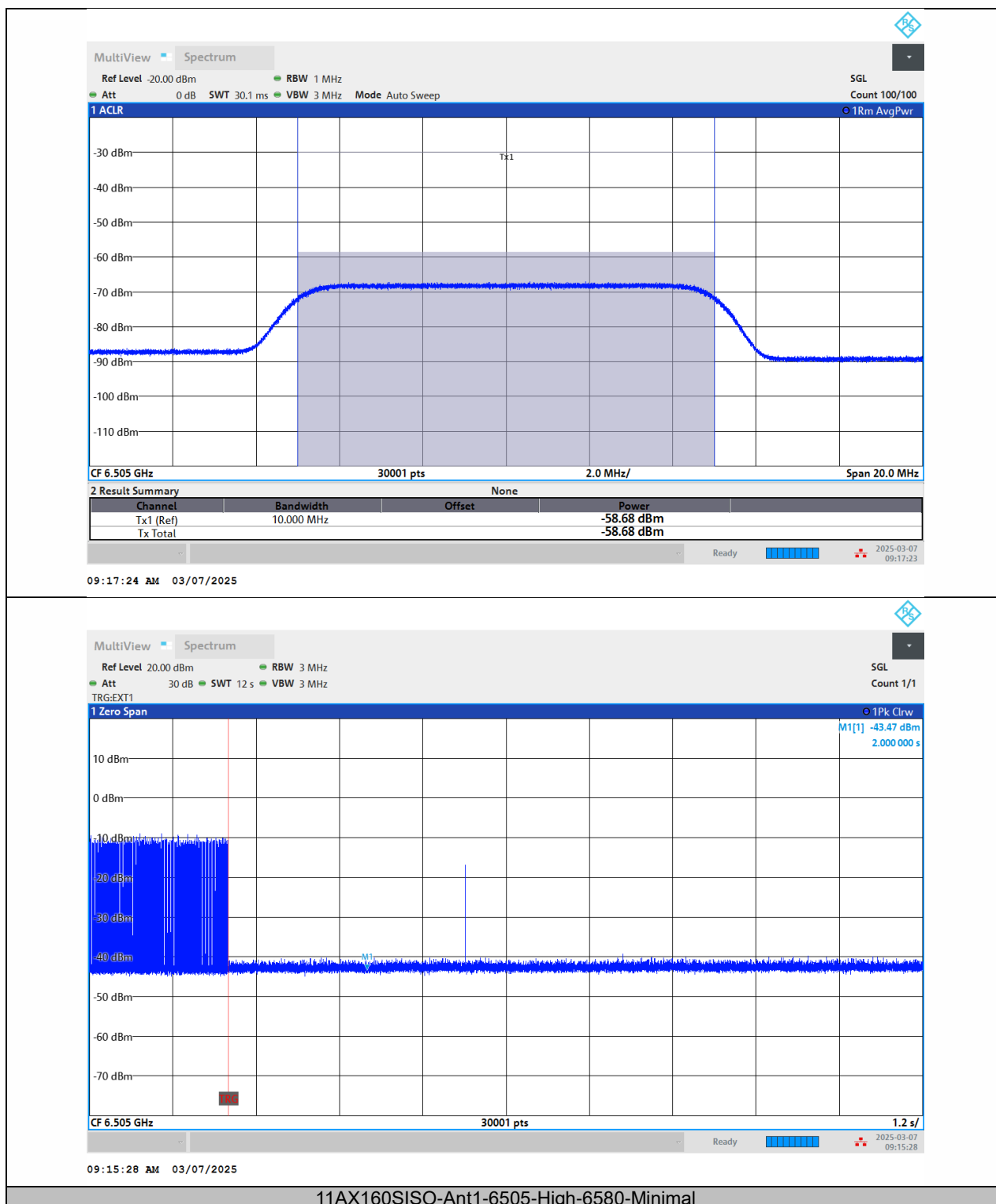
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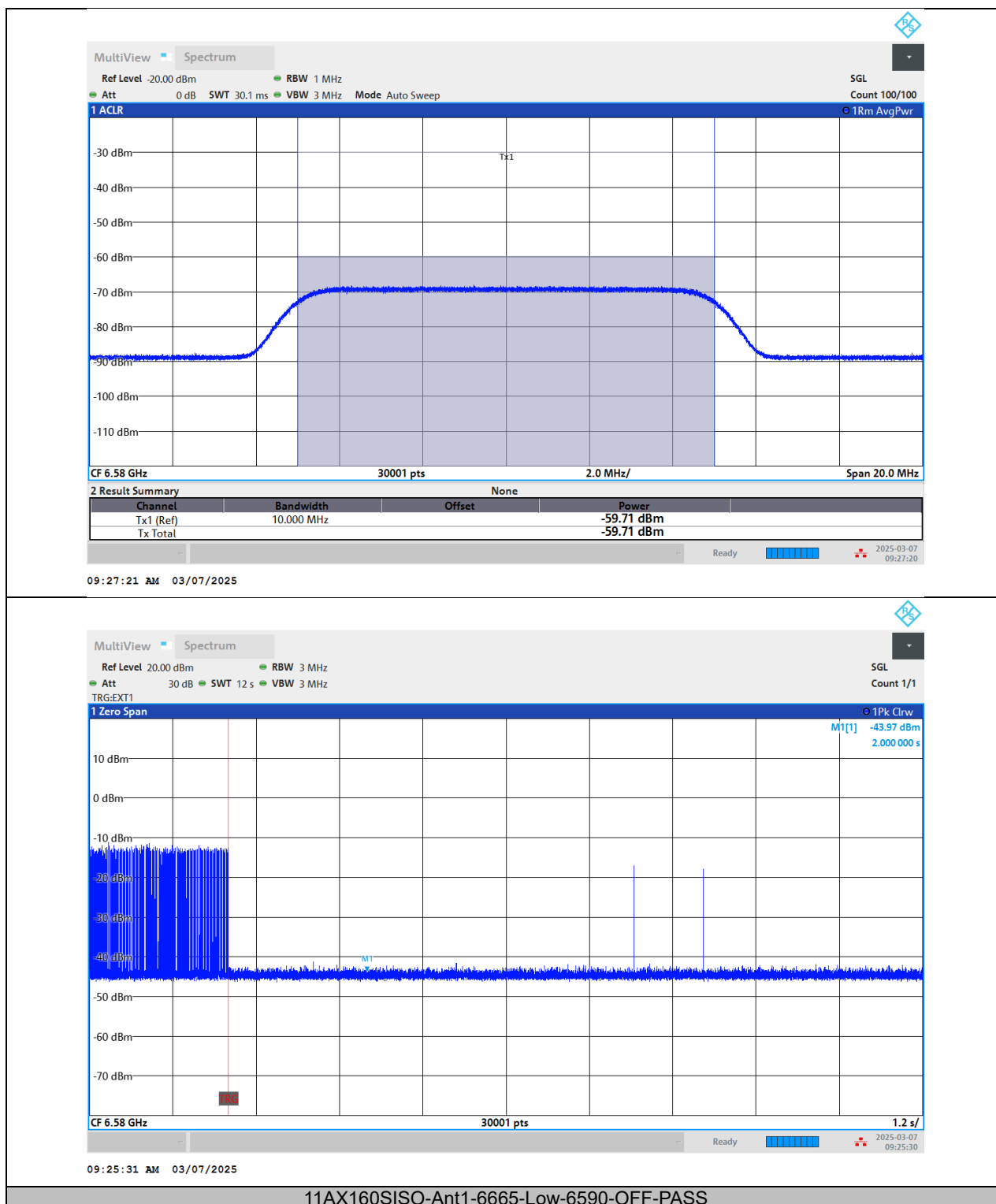


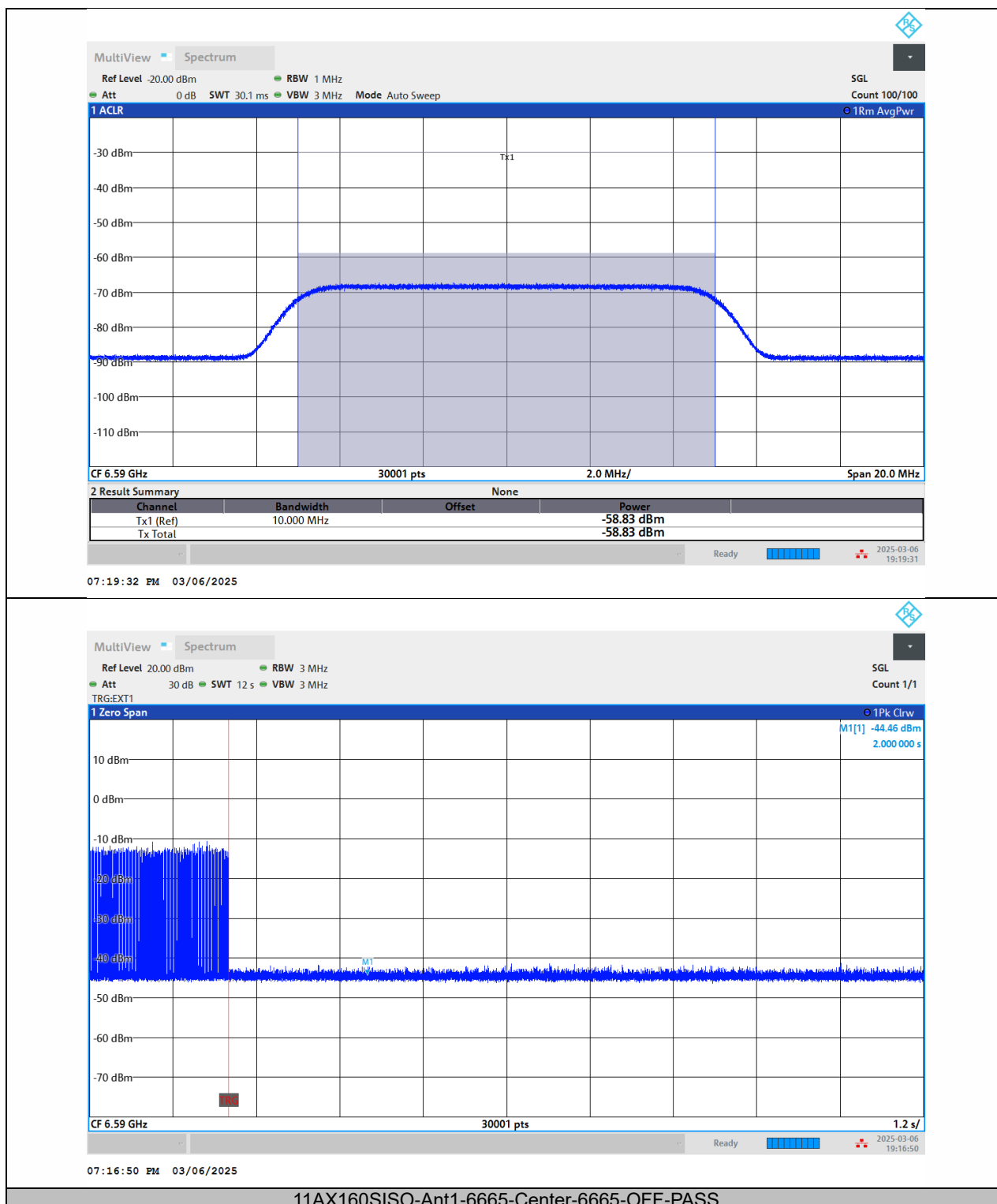




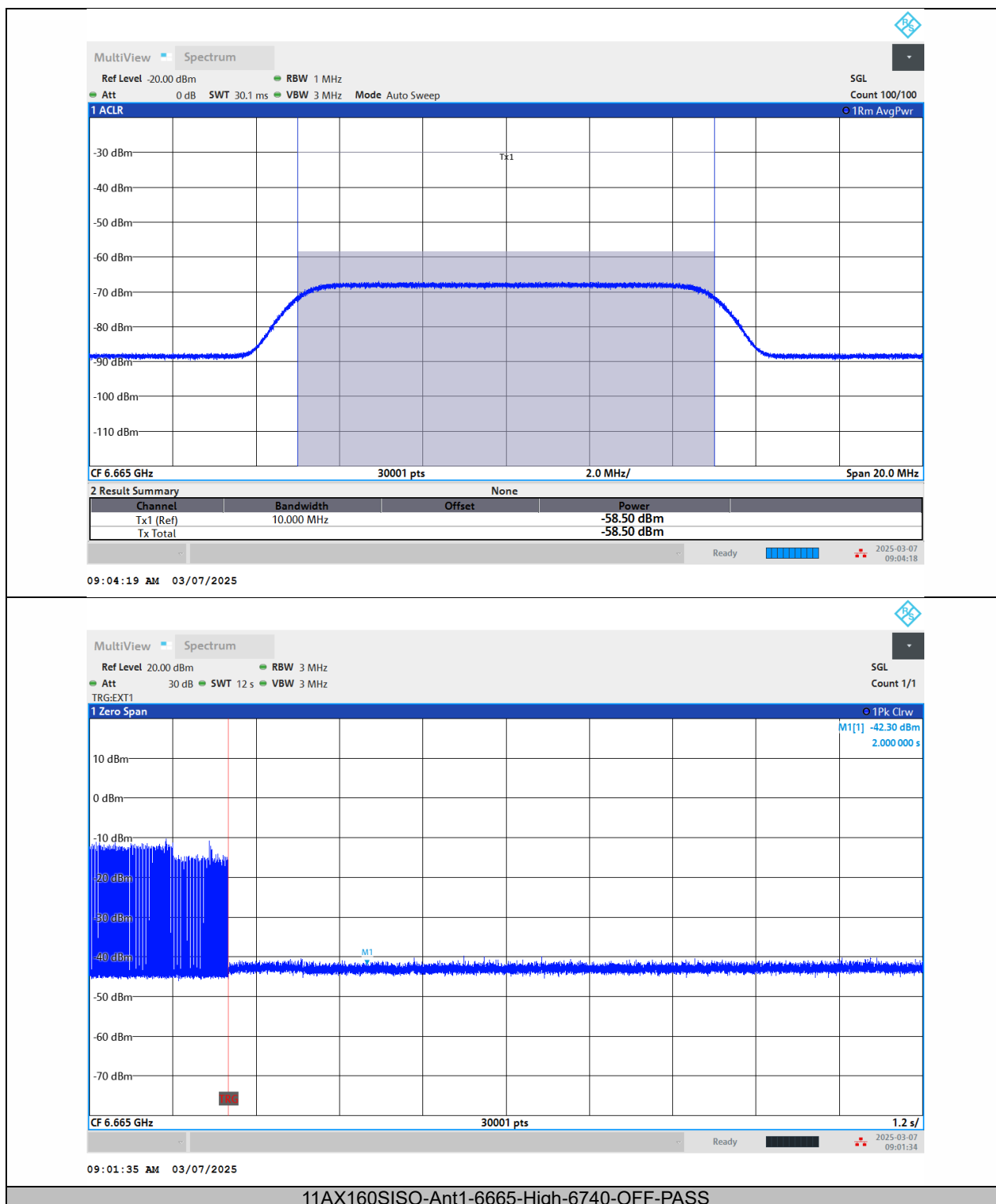
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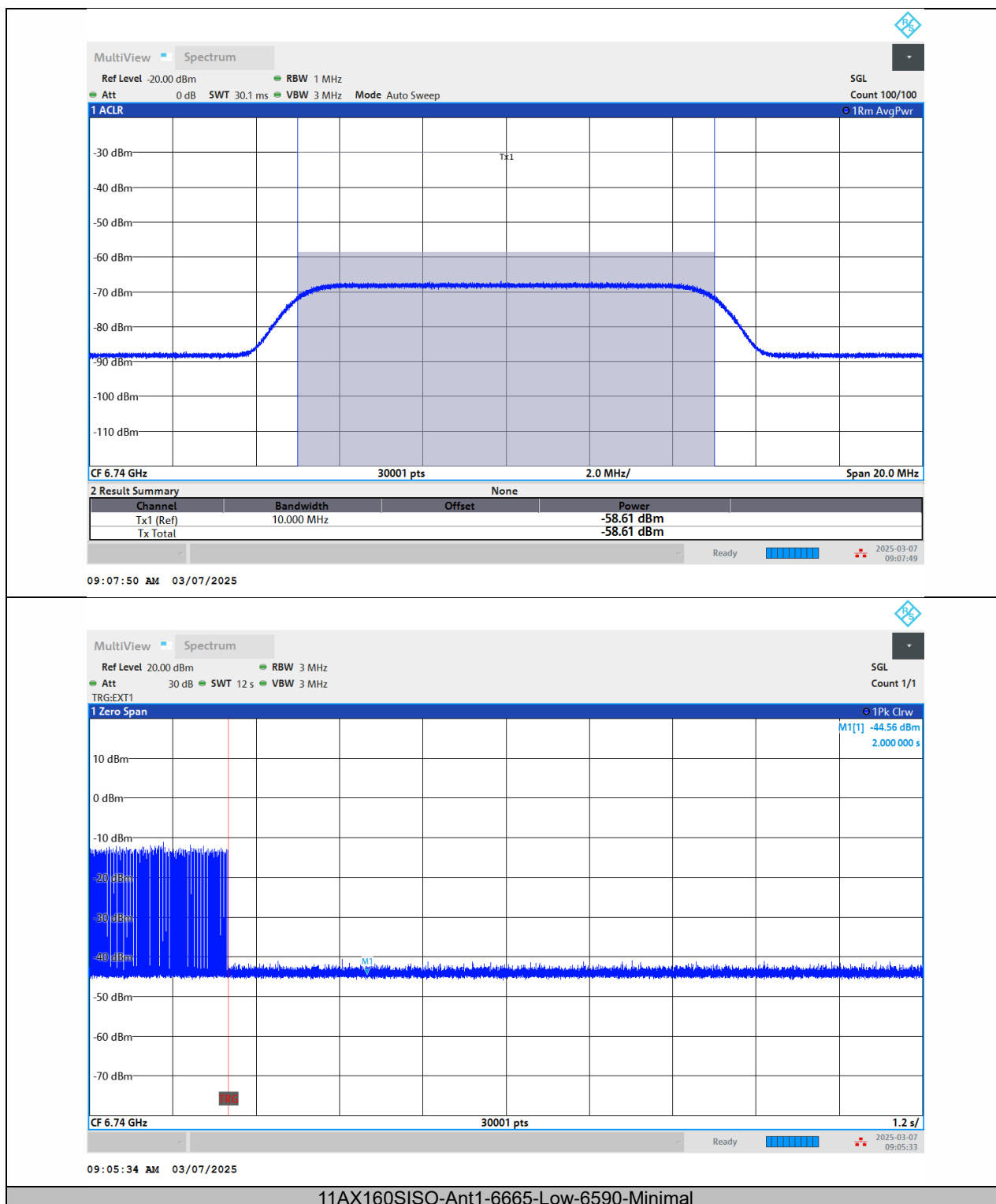


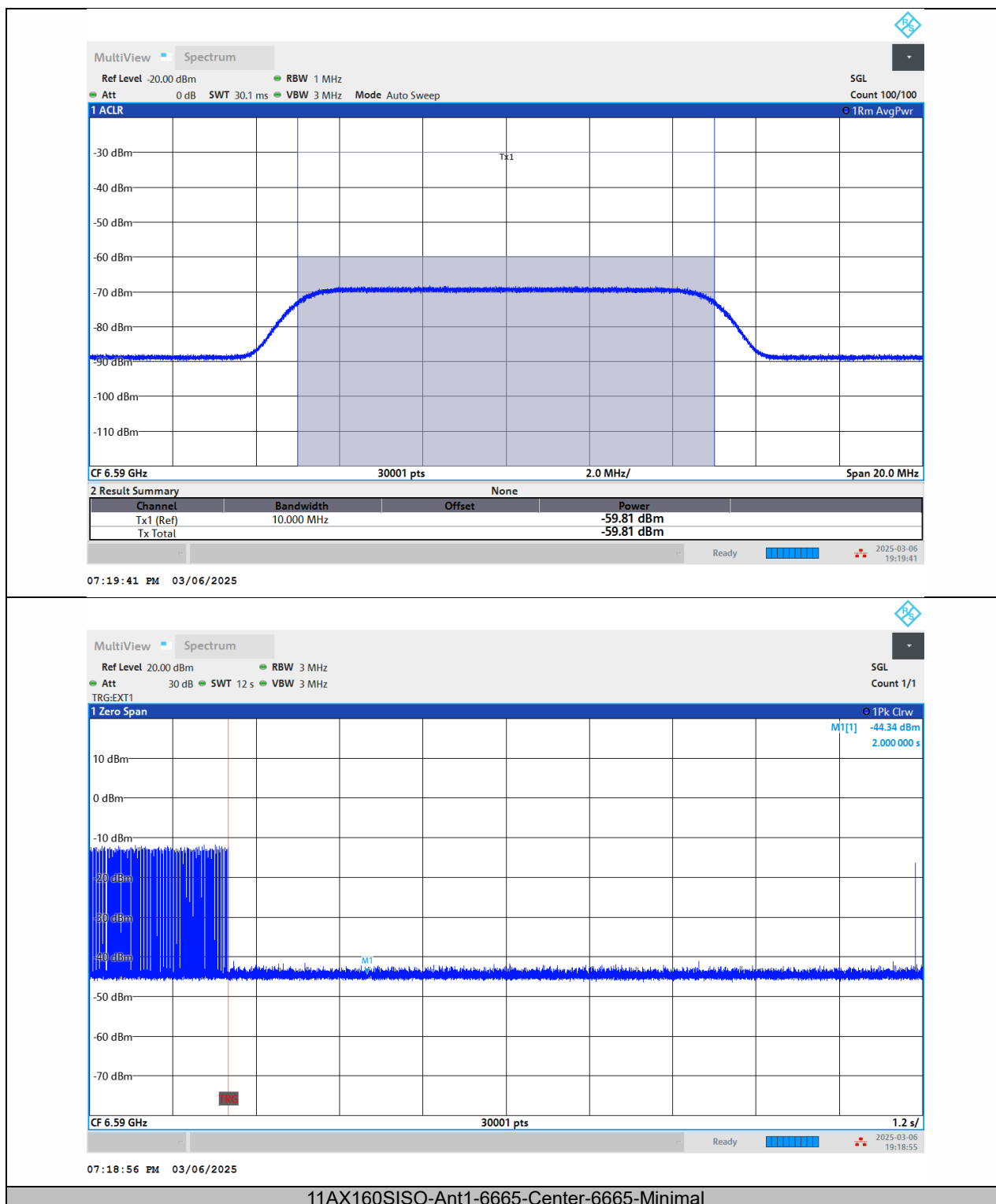




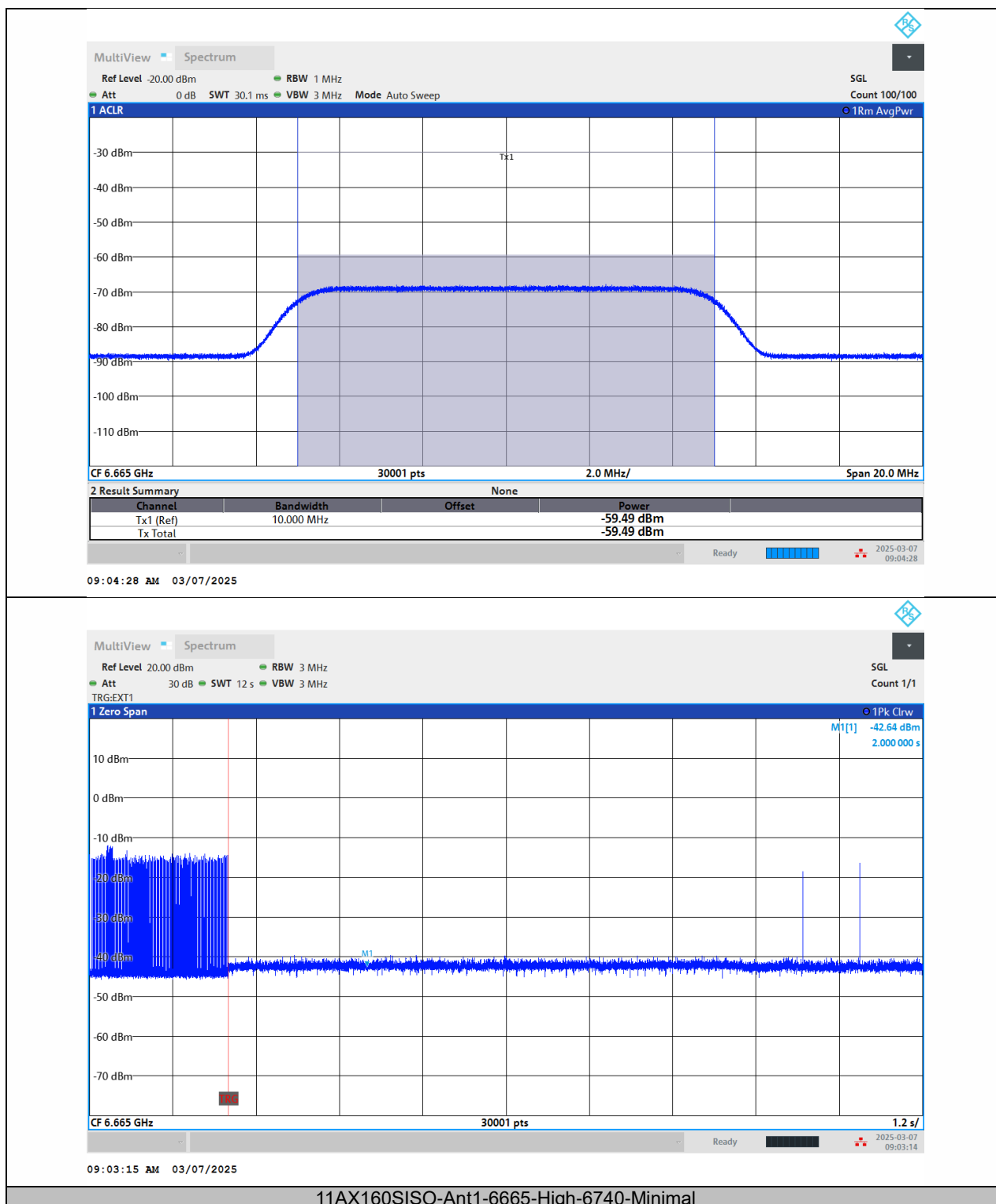
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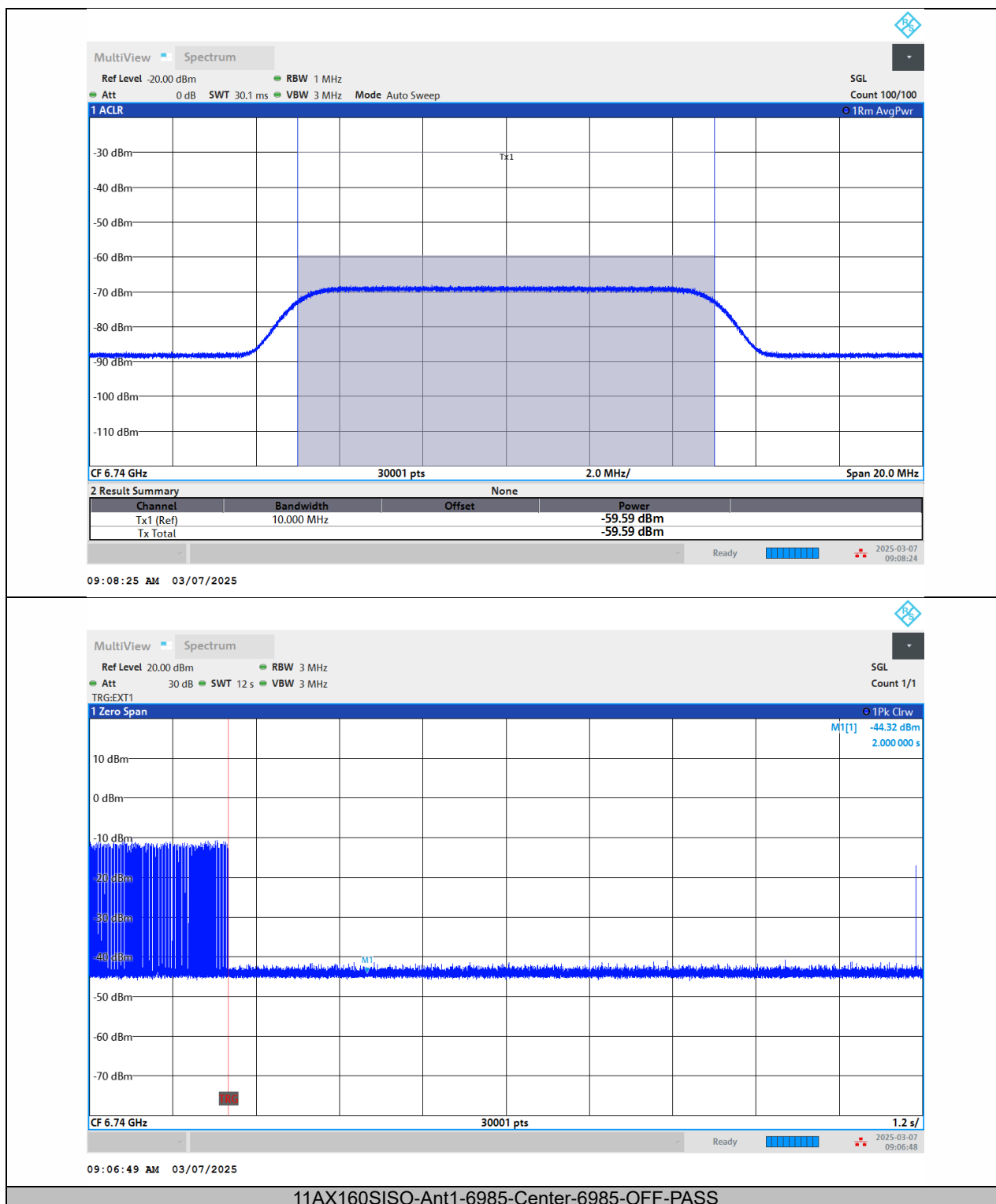


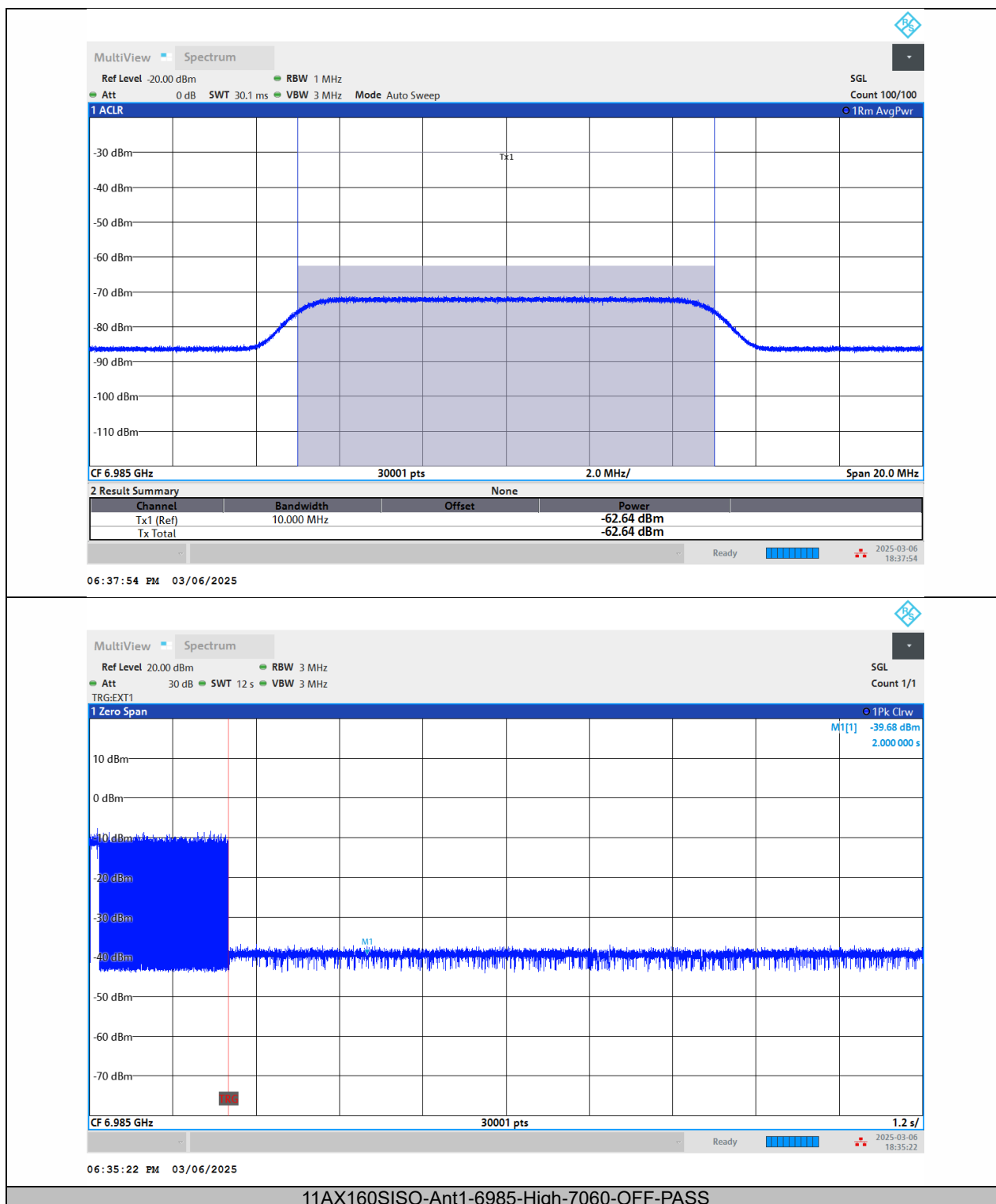


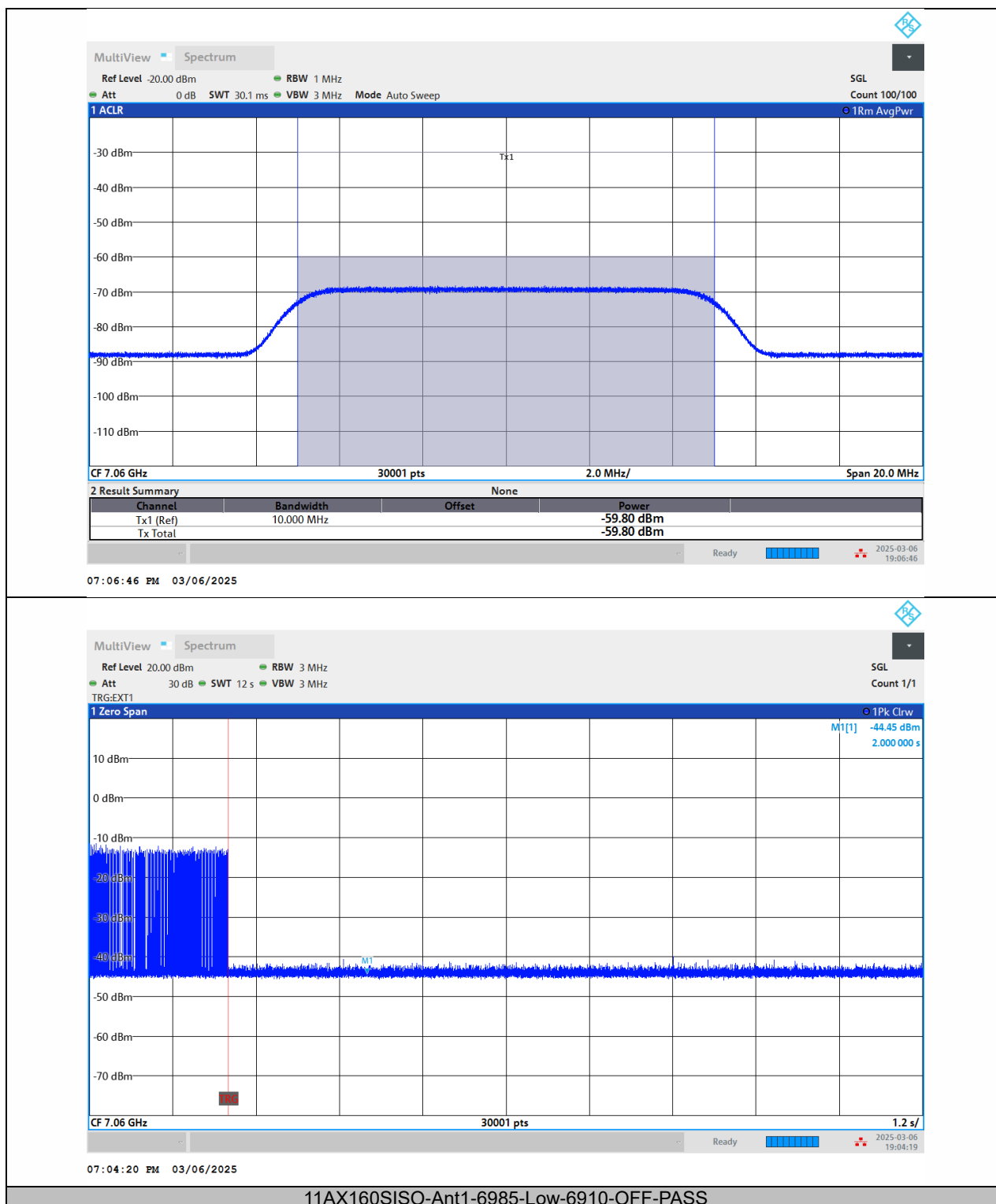


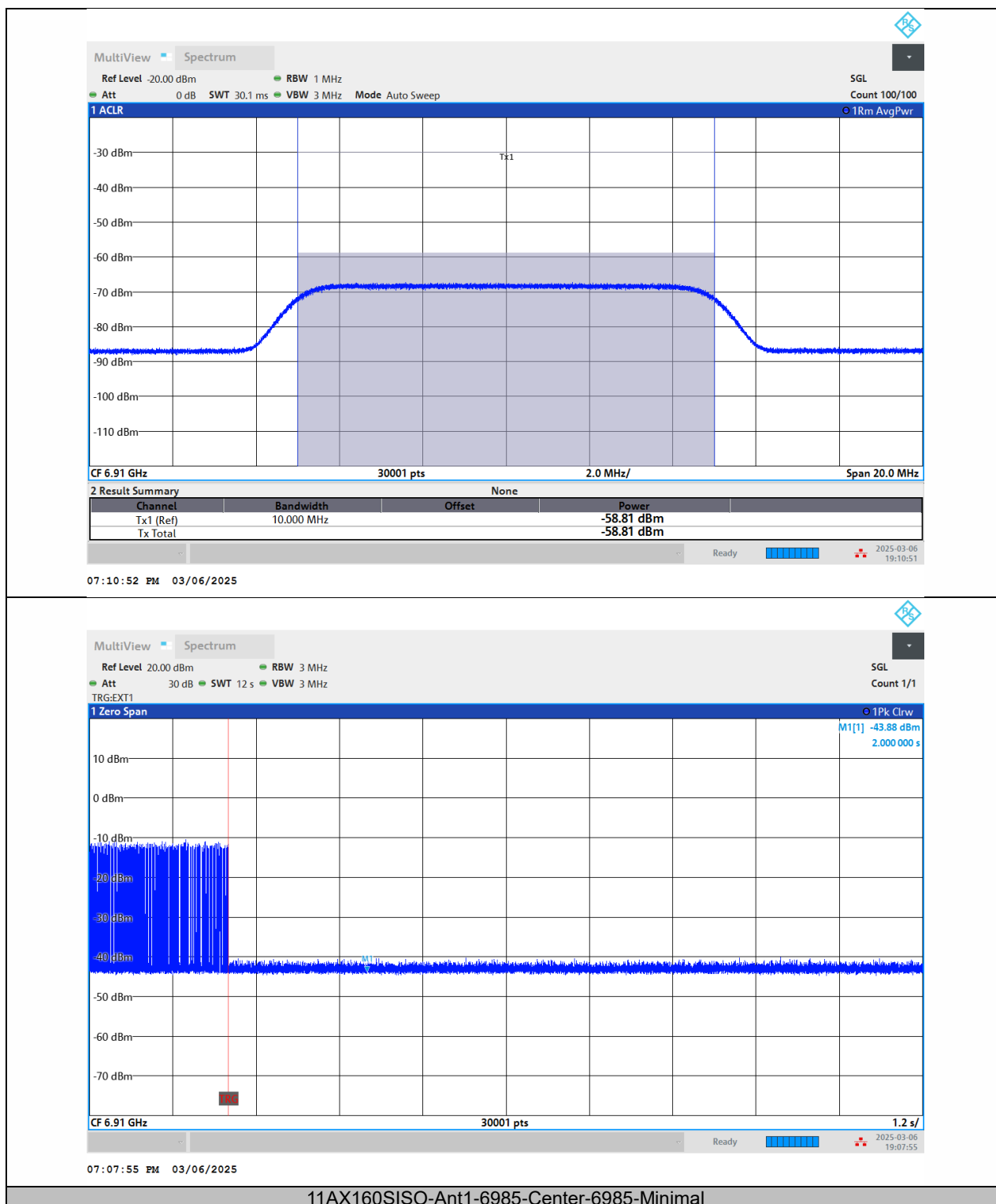
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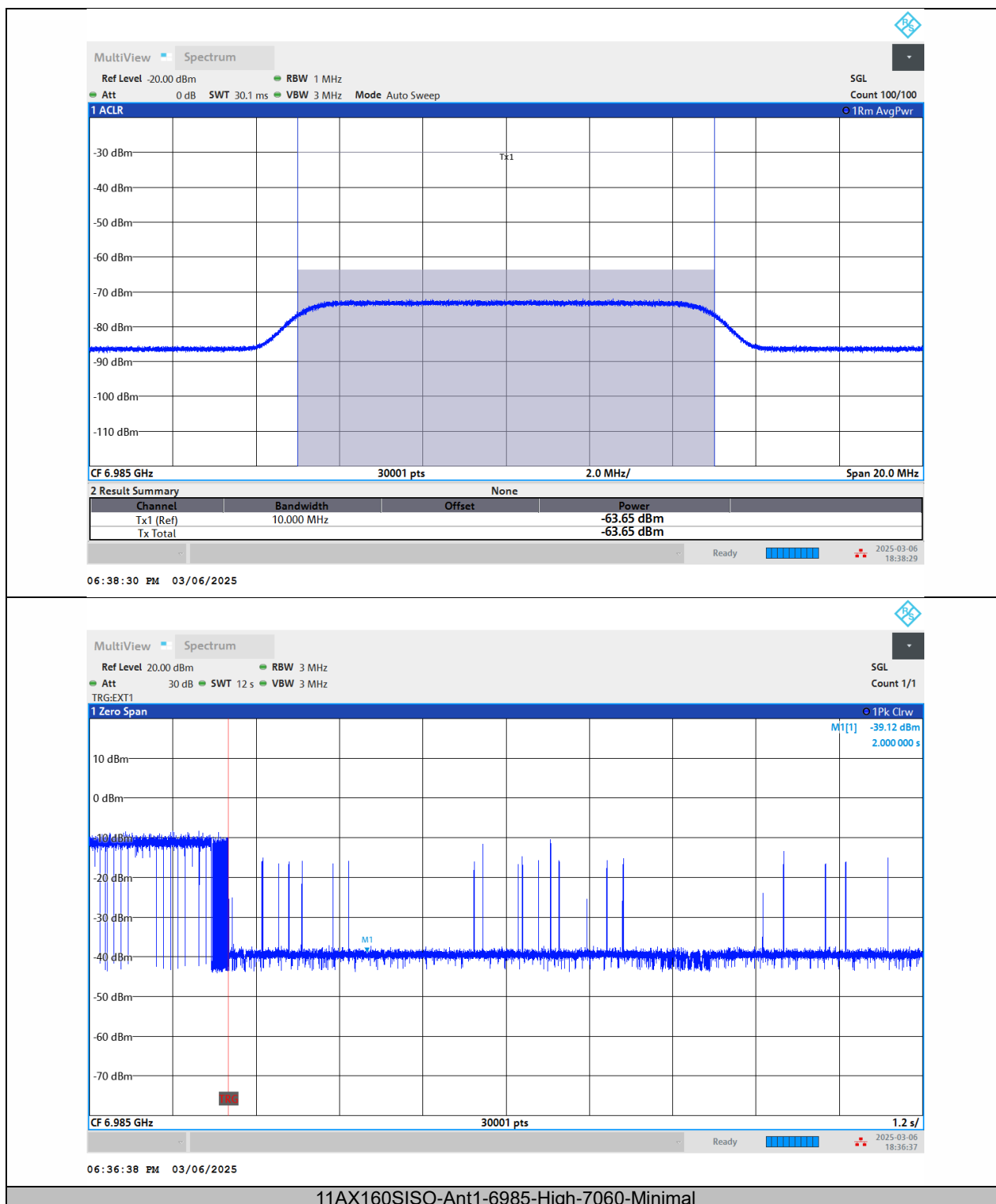


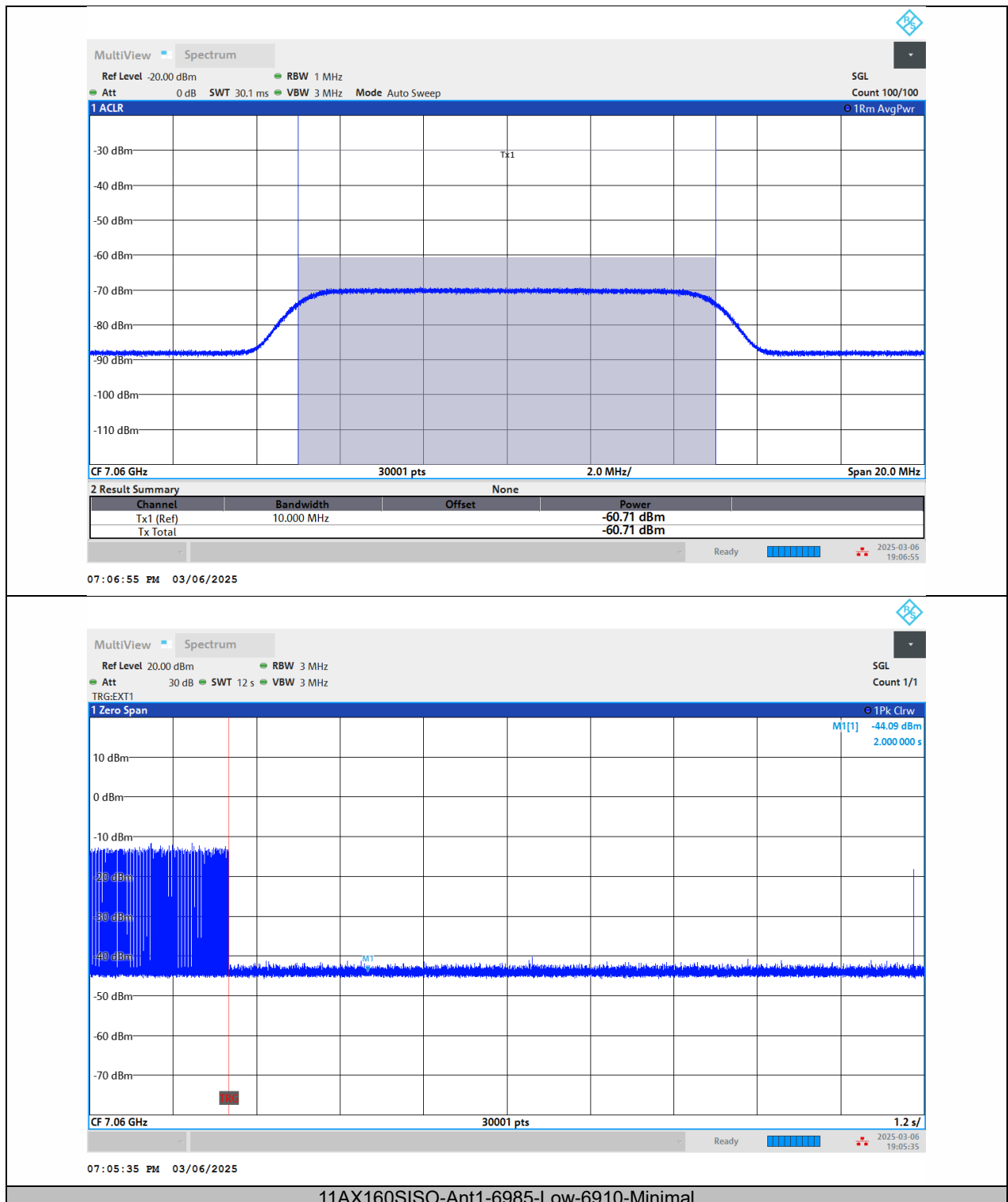


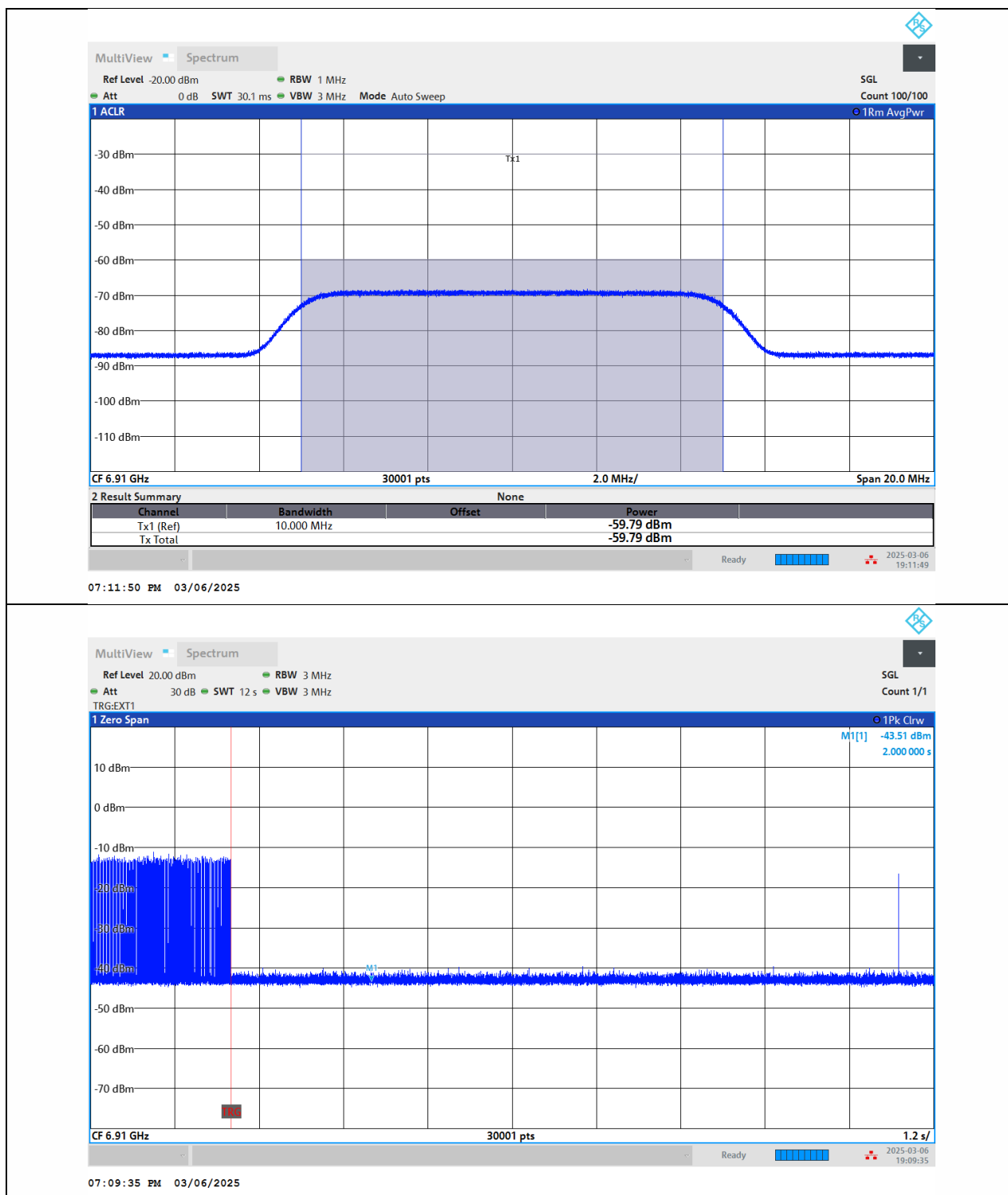












8.6 RADIATED SPURIOUS EMISSION

8.6.1 Applicable Standard

According to FCC Part 15.407 (b), 15.209, 15.205
 According to 789033 D02 Section II.G
 According to 987594 D02 Section II.G
 According to RSS-GEN 8.9, 8.10 and 6.13
 According to RSS-248 4.7

8.6.2 Conformance Limit

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.
 Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209
 The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section, 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

8.6.3 Test Configuration

Test according to clause 7.2 radio frequency test setup

8.6.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

Set RBW=120kHz for $f < 1\text{ GHz}$ (30MHz to 1GHz), 200Hz for $f < 150\text{ KHz}$ (9KHz to 150KHz), 9KHz for $f < 30\text{ MHz}$ (150KHz to 30MHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximum peak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW ≥ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method AD (Average Detection): Primary method

RBW = 1 MHz.

VBW ≥ 3 MHz.

Detector = power averaging (rms), if $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.

Averaging type = power averaging (rms)

Sweep time = auto.

Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)

If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

8.6.5 Test Results

PASS

Temperature :	25℃	ATM Pressure:	1011 mbar
Humidity :	45 %	Test Engineer:	HZB

■ Spurious Emission below 30MHz(9KHz to 30MHz)

For Spurious Emission below 30MHz (9KHz to 30MHz), was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



■ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11A(20) Frequency(MHz): 5955

Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Antenna Height (cm)
1	9988.99	59.85	3.29	74.00	14.15	PK	100
2	12523.2	62.61	9.48	74.00	11.39	PK	120
3	14258.1	59.42	11.83	74.00	14.58	PK	180

AV Final Data List							
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9988.994	45.31	54.00	8.69	AV	Vertical	105
2	12523.26	47.58	54.00	6.42	AV	Vertical	129
3	14258.12	46.84	54.00	7.16	AV	Vertical	170

Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Antenna Height (cm)
1	11086.0	60.14	5.90	74.00	13.86	PK	105
2	12684.8	61.49	9.74	74.00	12.51	PK	129
3	16707.3	59.32	9.73	74.00	14.68	PK	178

AV Final Data List							
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	11086.04	48.00	54.00	6.00	AV	Horizontal	105
2	12684.84	47.90	54.00	6.10	AV	Horizontal	150
3	16707.35	44.84	54.00	9.16	AV	Horizontal	170

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6175

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10031.5	60.03	3.65	74.00	13.97	PK	Vertical	109
2	12514.7	61.55	9.33	74.00	12.45	PK	Vertical	129
3	14232.6	59.37	11.16	74.00	14.63	PK	Vertical	170

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10031.51	46.79	54.00	7.21	AV	Vertical	105
2	12514.75	47.49	54.00	6.51	AV	Vertical	159
3	14232.61	44.28	54.00	9.72	AV	Vertical	178

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	11069.0	59.80	5.91	74.00	14.20	PK	Horizontal	120
2	12599.7	62.54	10.84	74.00	11.46	PK	Horizontal	155
3	16715.8	59.71	9.71	74.00	14.29	PK	Horizontal	178

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	11069.03	45.38	54.00	8.62	AV	Horizontal	119
2	12599.79	45.97	54.00	8.03	AV	Horizontal	129
3	16715.85	43.56	54.00	10.44	AV	Horizontal	172

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6415

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8696.34	57.05	0.15	74.00	16.95	PK	Vertical	110
2	12684.8	60.61	9.74	74.00	13.39	PK	Vertical	129
3	14224.1	58.93	10.94	74.00	15.07	PK	Vertical	170

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8696.348	42.27	54.00	11.73	AV	Vertical	117
2	12684.84	47.79	54.00	6.21	AV	Vertical	129
3	14224.11	46.60	54.00	7.40	AV	Vertical	180

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	7981.99	54.73	-2.89	74.00	19.27	PK	Horizontal	119
2	10754.3	59.92	6.10	74.00	14.08	PK	Horizontal	129
3	12574.2	62.12	10.38	74.00	11.88	PK	Horizontal	170

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	7981.991	36.15	54.00	17.85	AV	Horizontal	112
2	10754.37	41.71	54.00	12.29	AV	Horizontal	130
3	12574.28	45.61	54.00	8.39	AV	Horizontal	172

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6435

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8670.83	57.47	-0.32	74.00	16.53	PK	Vertical	135
2	11052.0	60.29	5.92	74.00	13.71	PK	Vertical	201
3	12659.3	61.09	10.08	74.00	12.91	PK	Vertical	110

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8670.835	41.83	54.00	12.17	AV	Vertical	138
2	11052.02	44.16	54.00	9.84	AV	Vertical	205
3	12659.32	46.02	54.00	7.98	AV	Vertical	115

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	6145.07	50.42	-6.13	74.00	23.58	PK	Horizontal	130
2	11111.5	60.08	5.70	74.00	13.92	PK	Horizontal	190
3	14215.6	58.61	10.70	74.00	15.39	PK	Horizontal	109

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	6145.072	35.12	54.00	18.88	AV	Horizontal	141
2	11111.555	42.58	54.00	11.42	AV	Horizontal	199
3	14215.60	45.82	54.00	8.18	AV	Horizontal	120

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6475

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9708.35	56.27	0.55	74.00	17.73	PK	Vertical	145
2	12591.2	61.36	10.69	74.00	12.64	PK	Vertical	180
3	14258.1	59.64	11.83	74.00	14.36	PK	Vertical	125

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9708.354	40.53	54.00	13.47	AV	Vertical	150
2	12591.29	46.81	54.00	7.19	AV	Vertical	185
3	14258.12	46.19	54.00	7.81	AV	Vertical	130

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8424.21	57.13	-2.19	74.00	16.87	PK	Horizontal	148
2	10762.8	59.99	5.95	74.00	14.01	PK	Horizontal	191
3	16724.3	59.05	9.70	74.00	14.95	PK	Horizontal	130

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8424.212	40.66	54.00	13.34	AV	Horizontal	151
2	10762.88	44.79	54.00	9.21	AV	Horizontal	185
3	16724.36	45.82	54.00	8.18	AV	Horizontal	125

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6515

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10048.5	58.46	3.82	74.00	15.54	PK	Vertical	130
2	10728.8	59.26	6.55	74.00	14.74	PK	Vertical	178
3	12676.3	61.83	9.86	74.00	12.17	PK	Vertical	119

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10048.52	45.97	54.00	8.03	AV	Vertical	139
2	10728.86	44.88	54.00	9.12	AV	Vertical	180
3	12676.33	N/A	54.00	N/A	AV	Vertical	110

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10720.3	59.56	6.70	74.00	14.44	PK	Horizontal	139
2	12506.2	60.97	9.18	74.00	13.03	PK	Horizontal	180
3	14266.6	59.52	12.06	74.00	14.48	PK	Horizontal	110

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10720.36	47.71	54.00	6.29	AV	Horizontal	136
2	12506.25	47.33	54.00	6.67	AV	Horizontal	183
3	14266.63	48.00	54.00	6.00	AV	Horizontal	121

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6535

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9997.49	59.35	3.33	74.00	14.65	PK	Vertical	139
2	12676.3	61.31	9.86	74.00	12.69	PK	Vertical	110
3	16698.8	58.13	9.75	74.00	15.87	PK	Vertical	150

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9997.498	45.45	54.00	8.55	AV	Vertical	128
2	12676.33	47.87	54.00	6.13	AV	Vertical	118
3	16698.84	45.70	54.00	8.30	AV	Vertical	159

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10720.3	59.52	6.70	74.00	14.48	PK	Horizontal	130
2	12565.7	61.38	10.23	74.00	12.62	PK	Horizontal	110
3	15907.9	57.23	8.99	74.00	16.77	PK	Horizontal	168

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10720.36	47.21	54.00	6.79	AV	Horizontal	141
2	12565.78	47.26	54.00	6.74	AV	Horizontal	128
3	15907.95	44.10	54.00	9.90	AV	Horizontal	160

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6695

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9988.99	59.41	3.29	74.00	14.59	PK	Vertical	140
2	12599.7	61.29	10.84	74.00	12.71	PK	Vertical	119
3	14283.6	58.54	12.52	74.00	15.46	PK	Vertical	141

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9988.994	46.14	54.00	7.86	AV	Vertical	145
2	12599.79	47.89	54.00	6.11	AV	Vertical	116
3	14283.64	47.64	54.00	6.36	AV	Vertical	139

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10711.8	59.43	6.84	74.00	14.57	PK	Horizontal	133
2	12667.8	62.01	9.97	74.00	11.99	PK	Horizontal	110
3	16698.8	58.35	9.75	74.00	15.65	PK	Horizontal	131

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10711.85	47.89	54.00	6.11	AV	Horizontal	140
2	12667.83	47.09	54.00	6.91	AV	Horizontal	115
3	16698.84	45.30	54.00	8.70	AV	Horizontal	130

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:

- (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS;
- (3) Corrected Reading = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

U-NII 7 Band (6525 ~ 6875MHz)
Test mode: 802.11A(20)
Frequency(MHz): 6855
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8645.32	56.01	-0.79	74.00	17.99	PK	Vertical	122
2	10091.0	59.57	4.24	74.00	14.43	PK	Vertical	130
3	12608.3	61.35	10.73	74.00	12.65	PK	Vertical	156

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8645.322	41.34	54.00	12.66	AV	Vertical	120
2	10091.04	42.50	54.00	11.50	AV	Vertical	138
3	12608.30	46.51	54.00	7.49	AV	Vertical	150

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8721.86	56.05	0.00	74.00	17.95	PK	Horizontal	120
2	10737.3	59.32	6.40	74.00	14.68	PK	Horizontal	138
3	12616.8	61.35	10.63	74.00	12.65	PK	Horizontal	150

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	8721.860	43.52	54.00	10.48	AV	Horizontal	128
2	10737.36	45.85	54.00	8.15	AV	Horizontal	150
3	12616.80	46.74	54.00	7.26	AV	Horizontal	132

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6895

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9920.96	58.82	2.99	74.00	15.18	PK	Vertical	151
2	10703.3	59.77	6.99	74.00	14.23	PK	Vertical	136
3	12523.2	61.48	9.48	74.00	12.52	PK	Vertical	150

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9920.960	45.14	54.00	8.86	AV	Vertical	160
2	10703.35	45.35	54.00	8.65	AV	Vertical	150
3	12523.26	44.52	54.00	9.48	AV	Vertical	120

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9852.92	58.35	1.94	74.00	15.65	PK	Horizontal	167
2	10711.8	59.58	6.84	74.00	14.42	PK	Horizontal	150
3	12582.7	61.14	10.54	74.00	12.86	PK	Horizontal	120

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9852.926	44.72	54.00	9.28	AV	Horizontal	160
2	10711.85	45.78	54.00	8.22	AV	Horizontal	155
3	12582.79	46.30	54.00	7.70	AV	Horizontal	123

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6995

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9878.43	59.89	2.46	74.00	14.11	PK	Vertical	166
2	12574.2	60.85	10.38	74.00	13.15	PK	Vertical	131
3	14266.6	59.11	12.06	74.00	14.89	PK	Vertical	100

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9878.439	44.65	54.00	9.35	AV	Vertical	155
2	12574.28	47.39	54.00	6.61	AV	Vertical	129
3	14266.63	47.88	54.00	6.12	AV	Vertical	101

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9903.95	59.76	2.92	74.00	14.24	PK	Horizontal	169
2	10745.8	59.39	6.26	74.00	14.61	PK	Horizontal	130
3	12625.3	60.68	10.52	74.00	13.32	PK	Horizontal	105

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9903.952	45.43	54.00	8.57	AV	Horizontal	156
2	10745.87	44.72	54.00	9.28	AV	Horizontal	135
3	12625.31	46.46	54.00	7.54	AV	Horizontal	100

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

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Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11A(20)

Frequency(MHz): 7115

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10014.5	58.87	3.48	74.00	15.13	PK	Vertical	148
2	11961.9	58.70	5.54	74.00	15.30	PK	Vertical	137
3	12676.3	61.19	9.86	74.00	12.81	PK	Vertical	105

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	10014.50	45.64	54.00	8.36	AV	Vertical	146
2	11961.98	44.29	54.00	9.71	AV	Vertical	130
3	12676.33	45.81	54.00	8.19	AV	Vertical	110

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9895.44	59.72	2.81	74.00	14.28	PK	Horizontal	140
2	12667.8	61.52	9.97	74.00	12.48	PK	Horizontal	120
3	16698.8	58.96	9.75	74.00	15.04	PK	Horizontal	105

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	9895.447	46.92	54.00	7.08	AV	Horizontal	150
2	12667.83	48.00	54.00	6.00	AV	Horizontal	120
3	16698.84	45.18	54.00	8.82	AV	Horizontal	100

Remark: The radiation measurements are performed in X, Y, Z axis positioning for transmitting mode, and found the X axis positioning which it is the worst case, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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■ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

● For U-NII 5

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20) Frequency(MHz): 5955

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5858.37	55.33	40.23	68.20	12.87	PK	Vertical
2	7147.375	58.13	44.10	68.20	10.07	PK	Vertical
1	5872.0375	54.45	40.25	68.20	13.75	PK	Horizontal
2	7162.8175	57.72	43.97	68.20	10.48	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20) Frequency(MHz): 6415

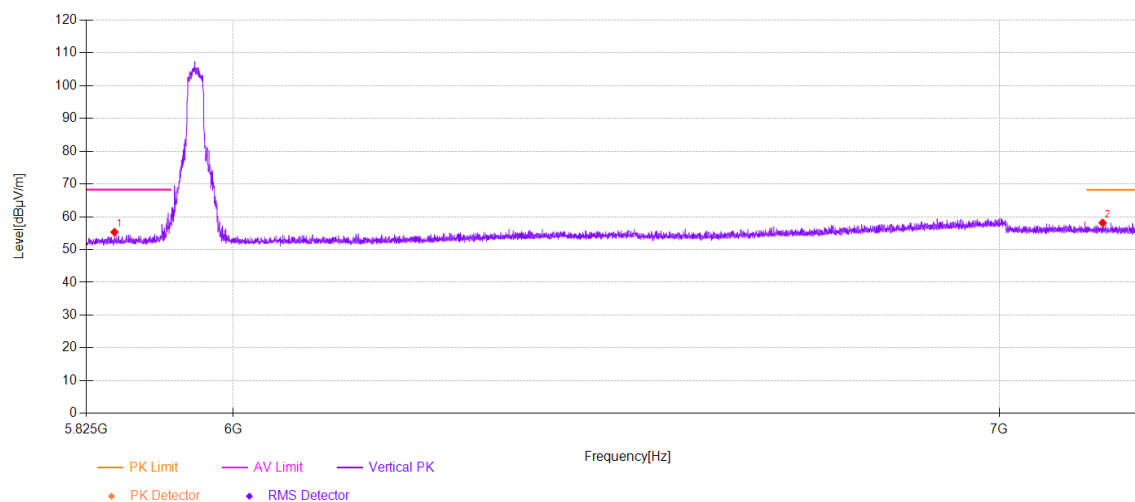
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5915.88	54.44	40.32	68.20	13.76	PK	Vertical
2	7158.38	57.95	44.01	68.20	10.25	PK	Vertical
1	5911.0875	54.54	40.31	68.20	13.66	PK	Horizontal
2	7135.305	58.25	44.19	68.20	9.95	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 5955

Ant.Pol: V

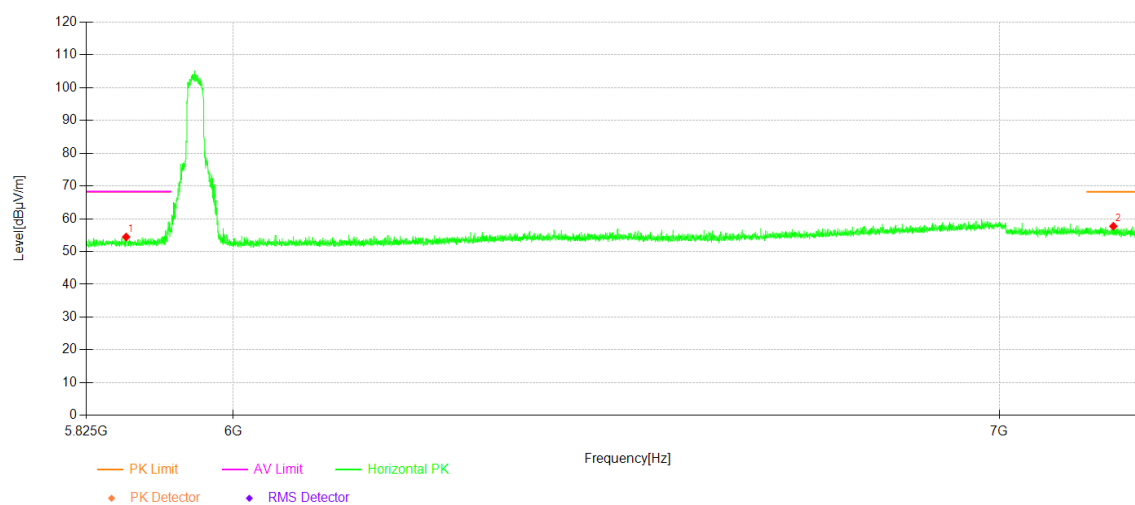


U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 5955

Ant.Pol: H

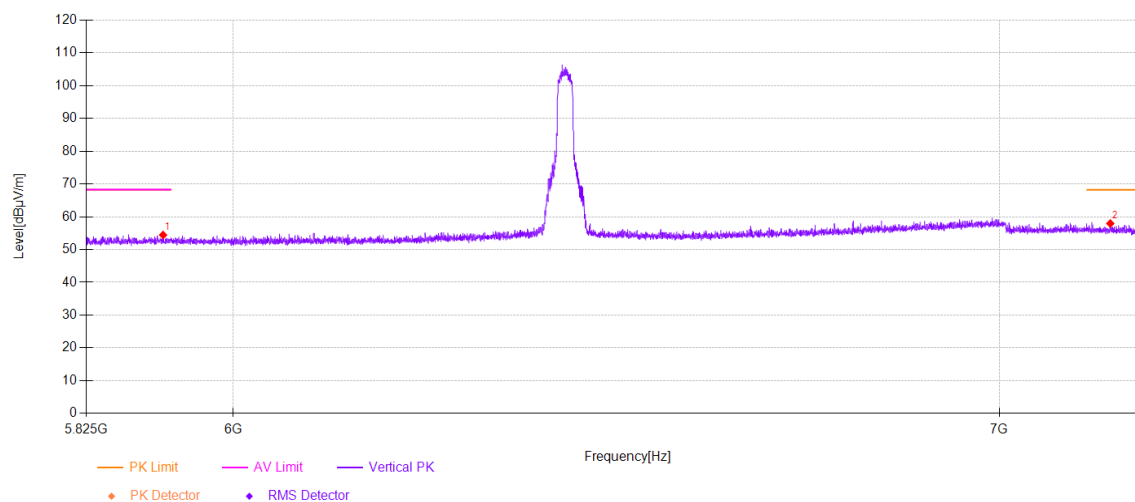


U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6415

Ant.Pol: V

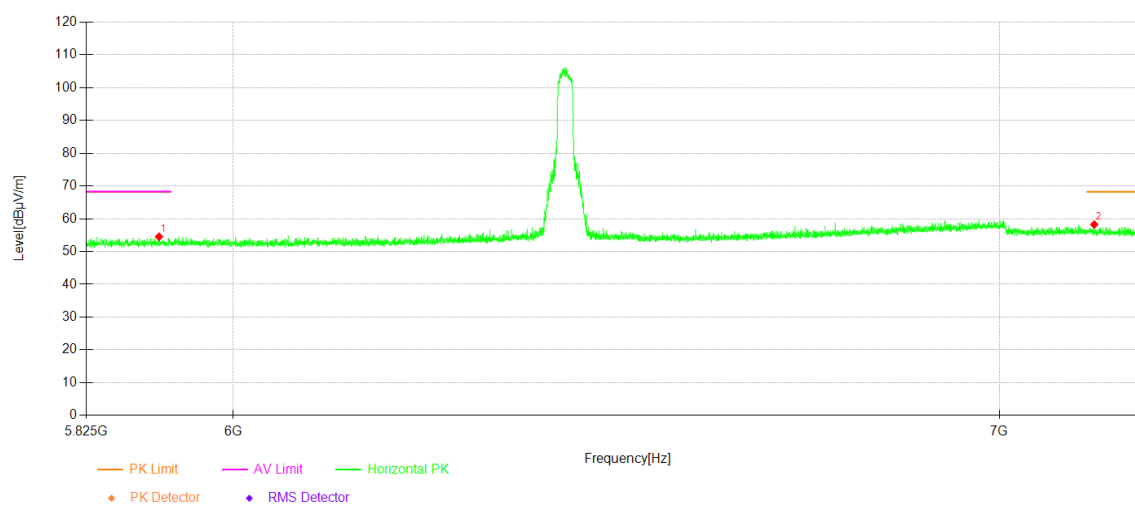


U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6415

Ant.Pol: H



● For U-NII 6

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 6435

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5909.3125	54.38	40.30	68.20	13.82	PK	Vertical
2	7139.21	57.80	44.17	68.20	10.40	PK	Vertical
1	5899.3725	54.33	40.28	68.20	13.87	PK	Horizontal
2	7151.1025	57.74	44.08	68.20	10.46	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 6515

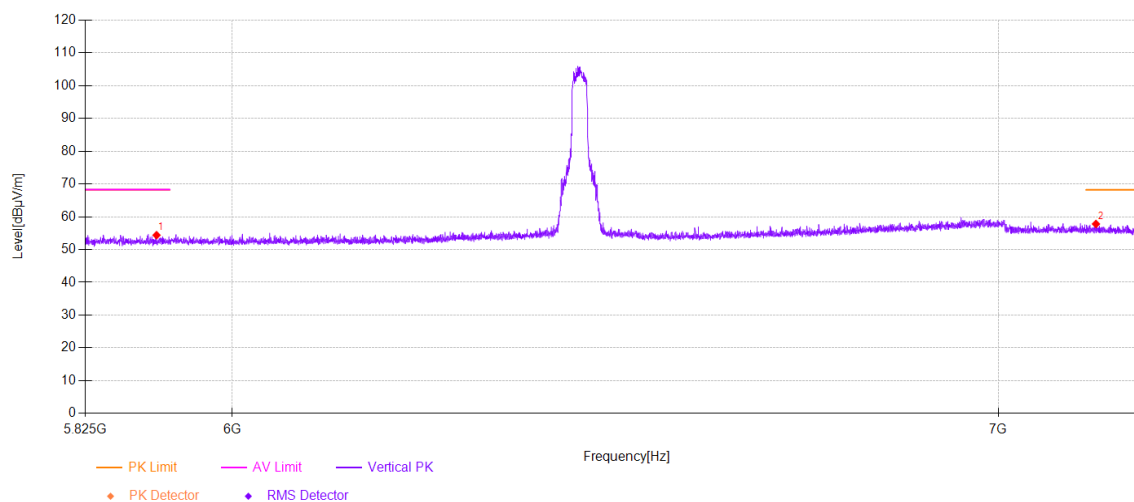
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5906.4725	54.08	40.29	68.20	14.12	PK	Vertical
2	7141.695	58.19	44.14	68.20	10.01	PK	Vertical
1	5914.46	54.28	40.32	68.20	13.92	PK	Horizontal
2	7142.2275	58.29	44.14	68.20	9.91	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6435

Ant.Pol: V

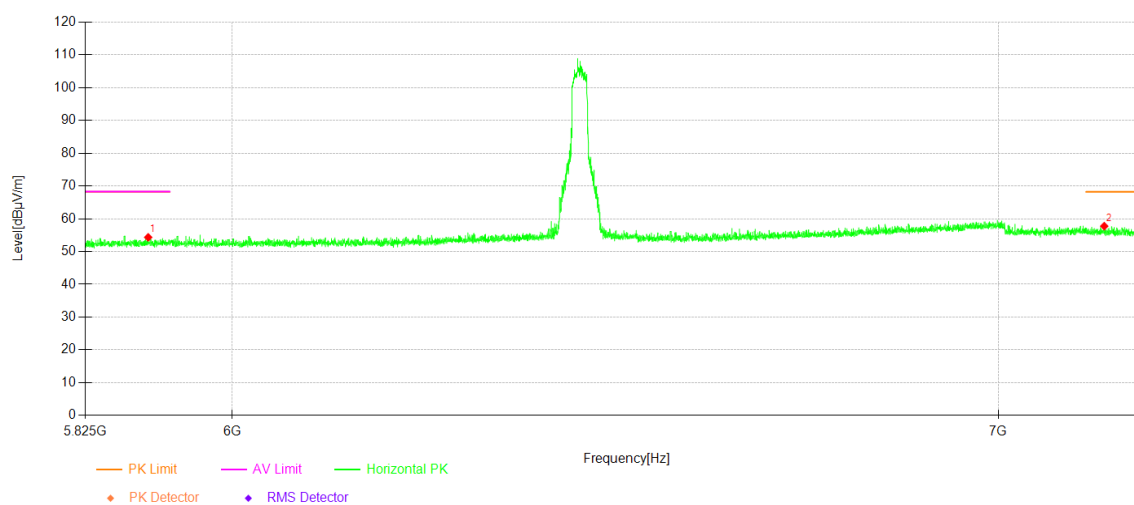


U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6435

Ant.Pol: H

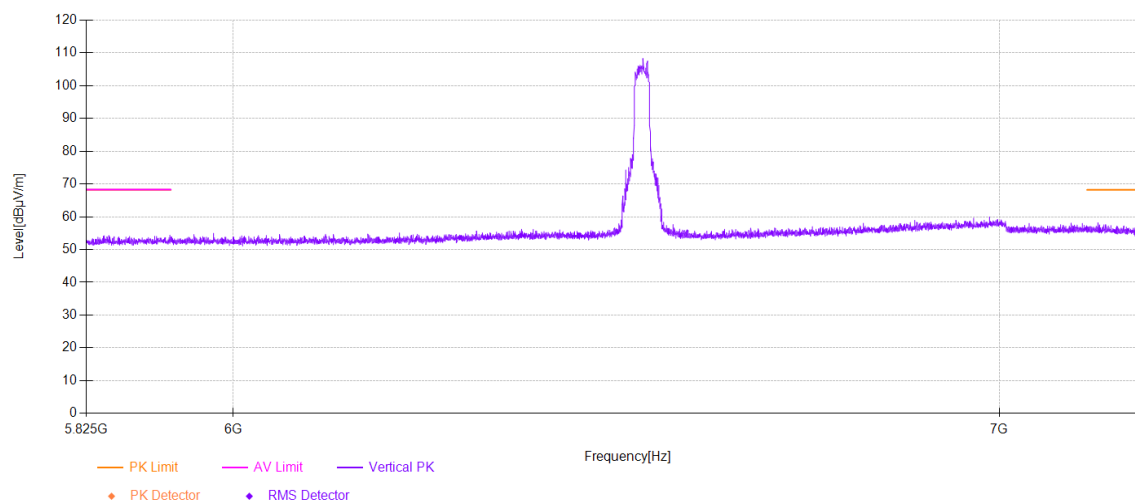


U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6515

Ant.Pol: V



U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6515

Ant.Pol: H

