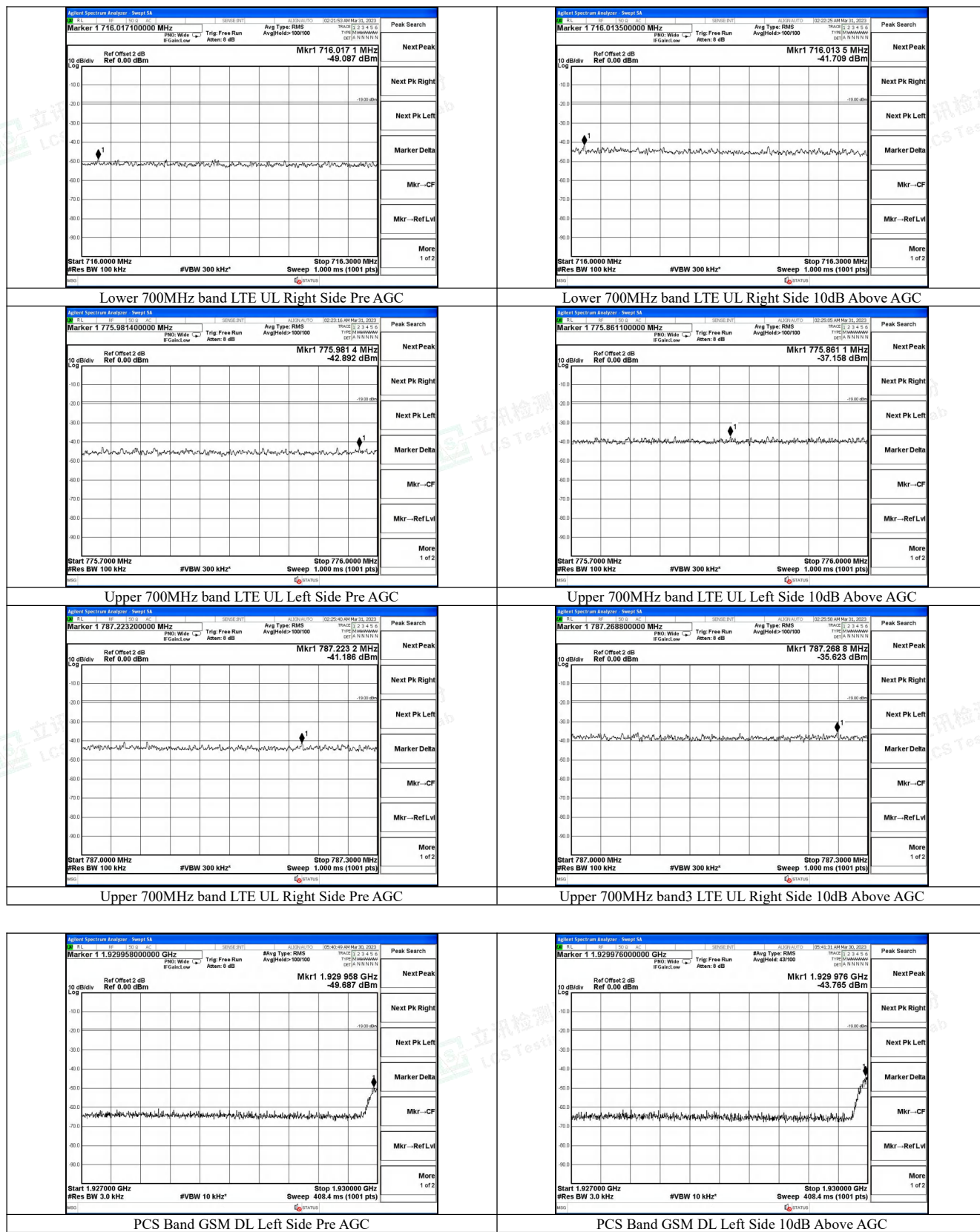
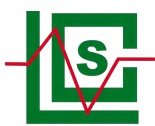


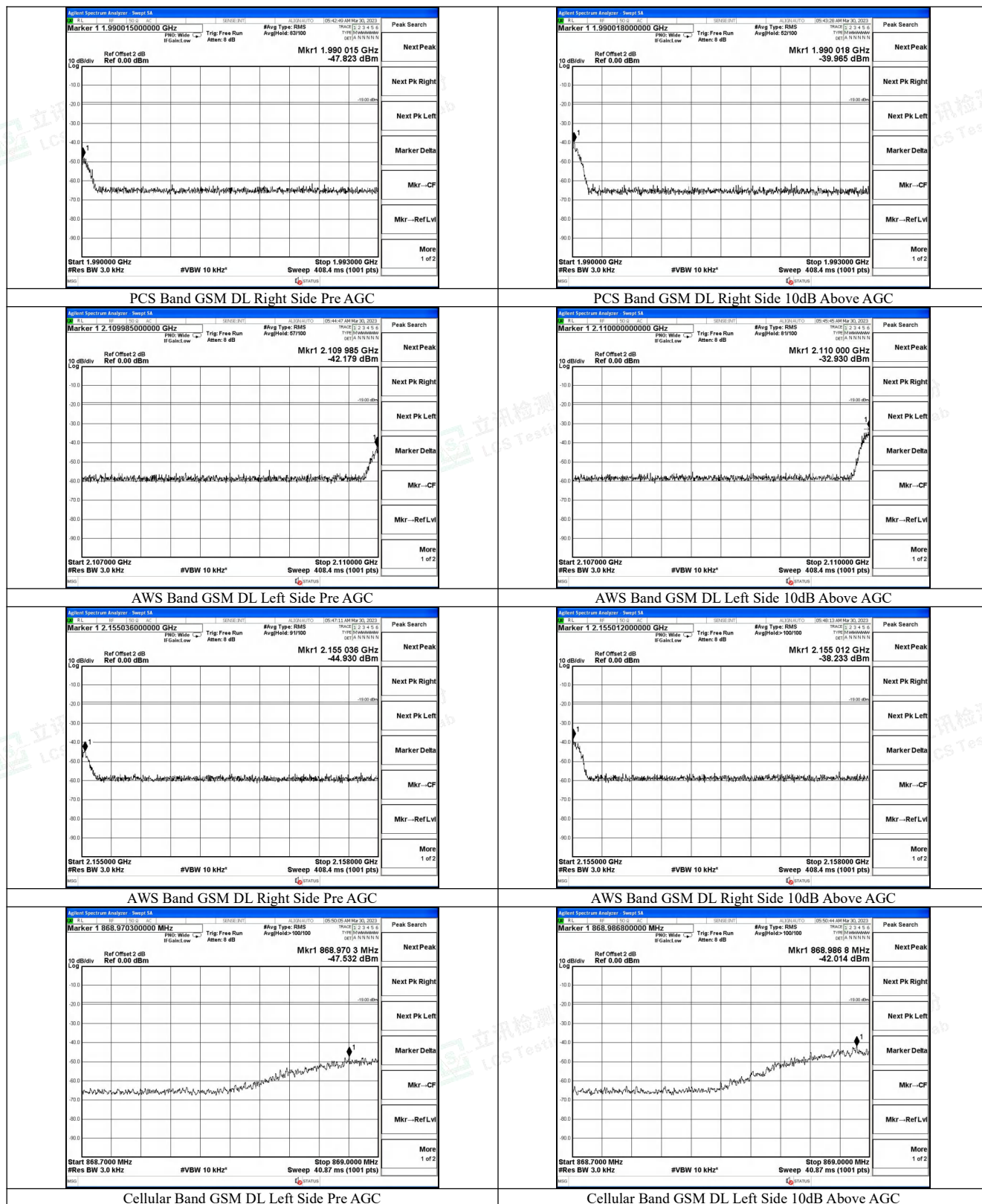
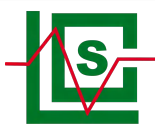


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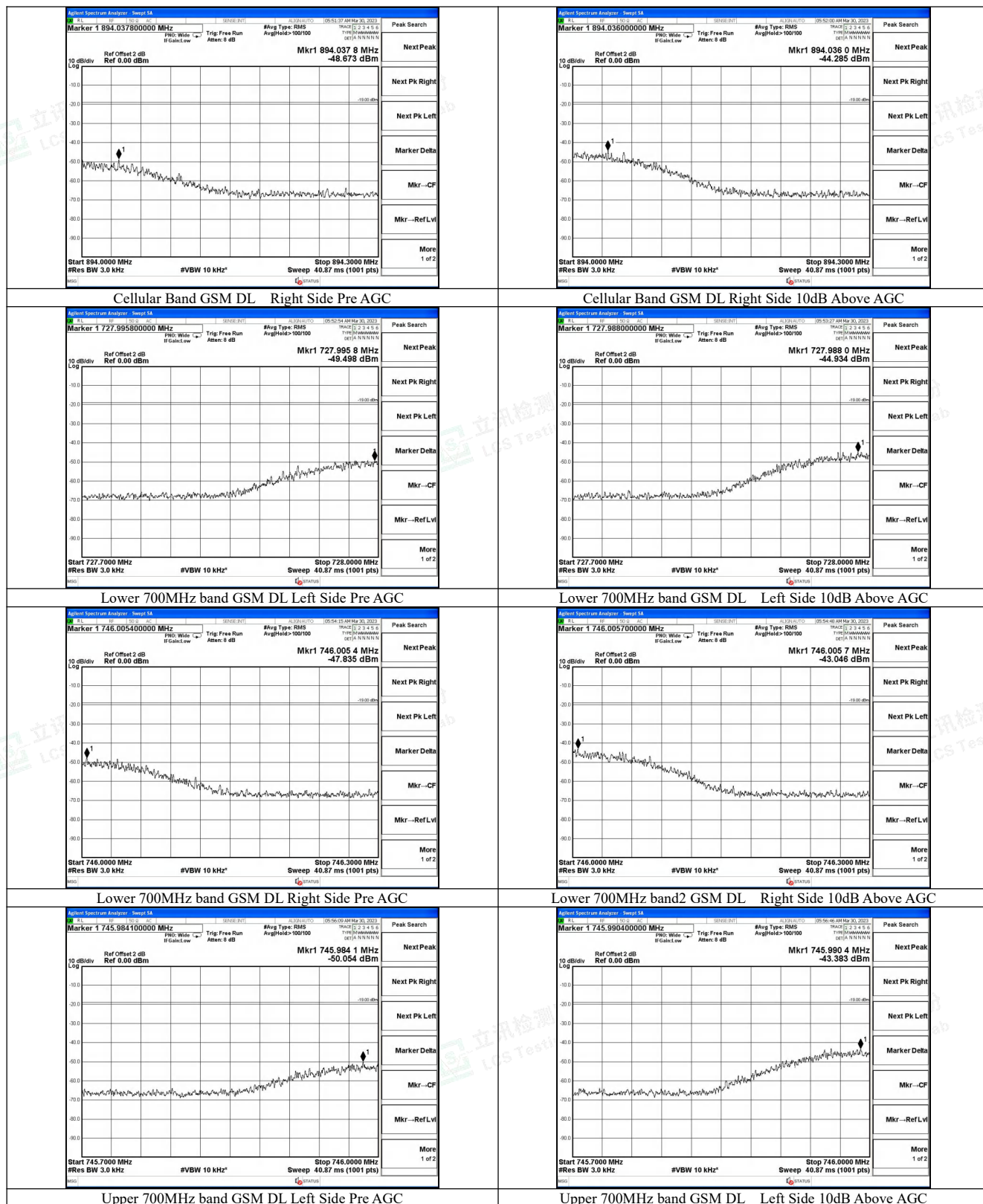
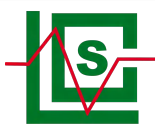
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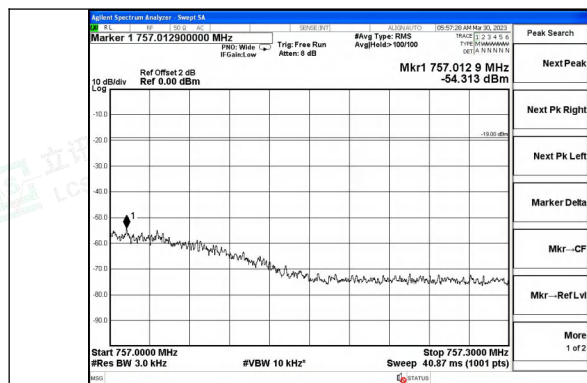
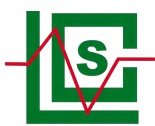


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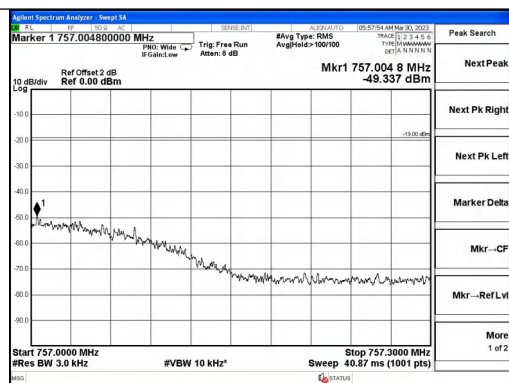
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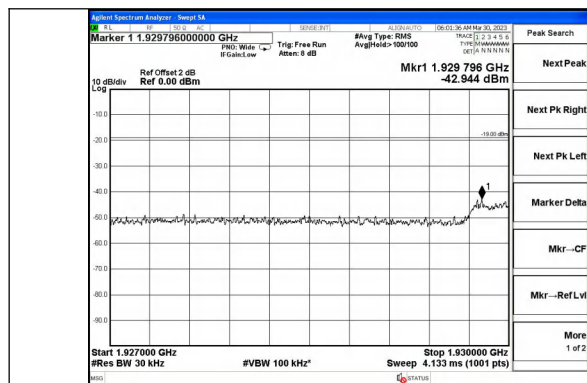
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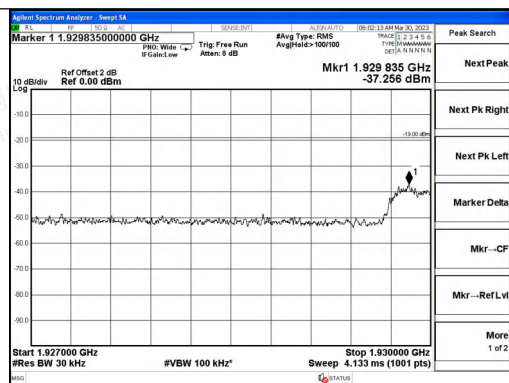
Upper 700MHz band GSM DL Right Side Pre AGC



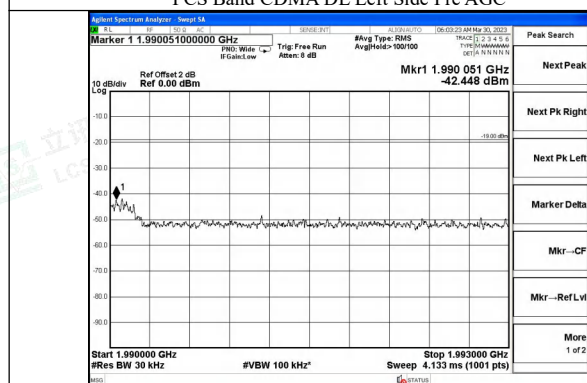
Upper 700MHz band GSM DL Right Side 10dB Above AGC



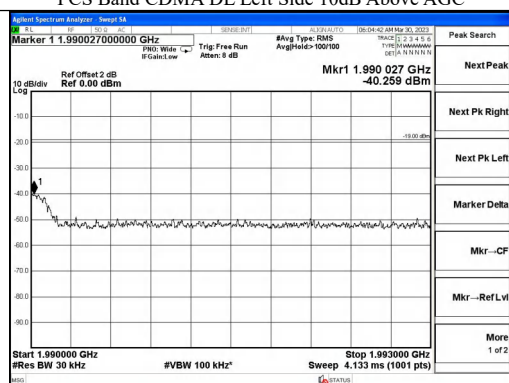
PCS Band CDMA DL Left Side Pre AGC



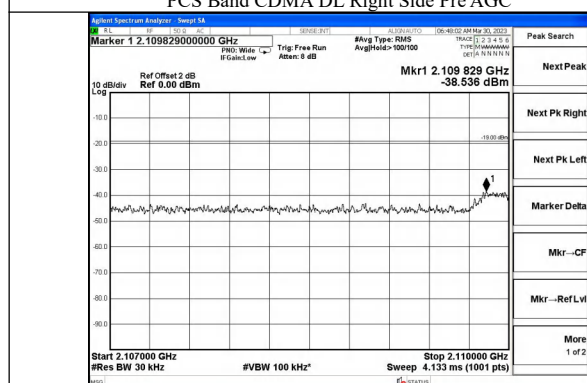
PCS Band CDMA DL Left Side 10dB Above AGC



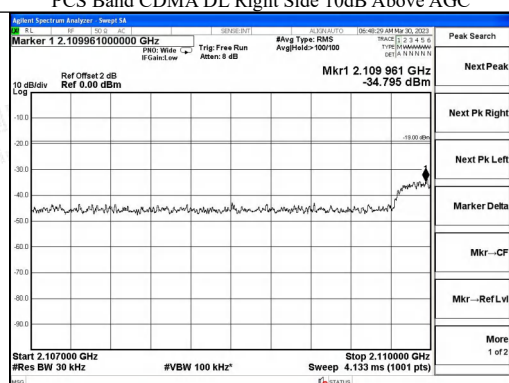
PCS Band CDMA DL Right Side Pre AGC



PCS Band CDMA DL Right Side 10dB Above AGC



AWS Band CDMA UL Left Side Pre AGC



AWS Band CDMA DL Left Side 10dB Above AGC

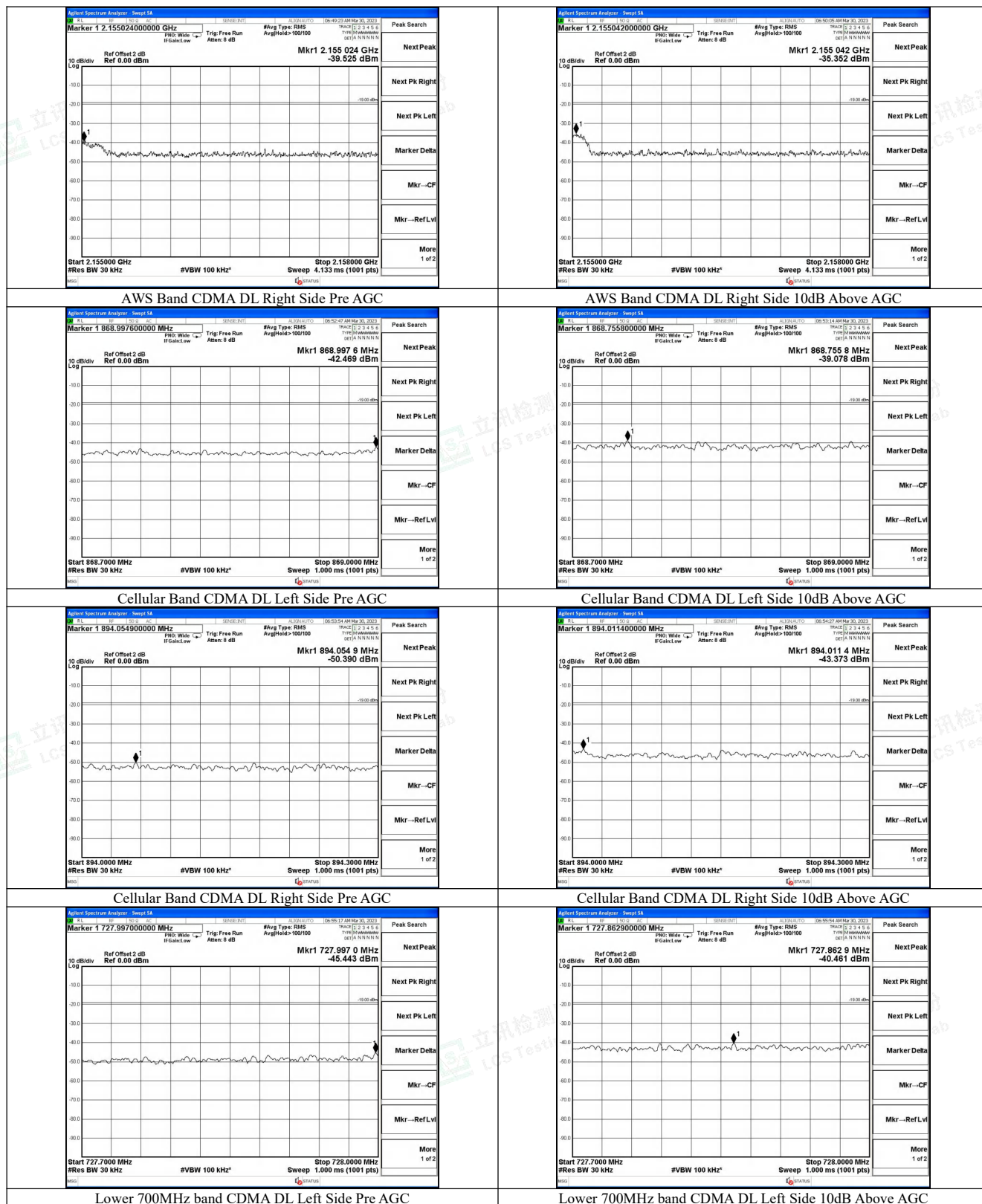
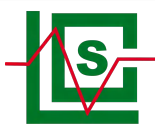


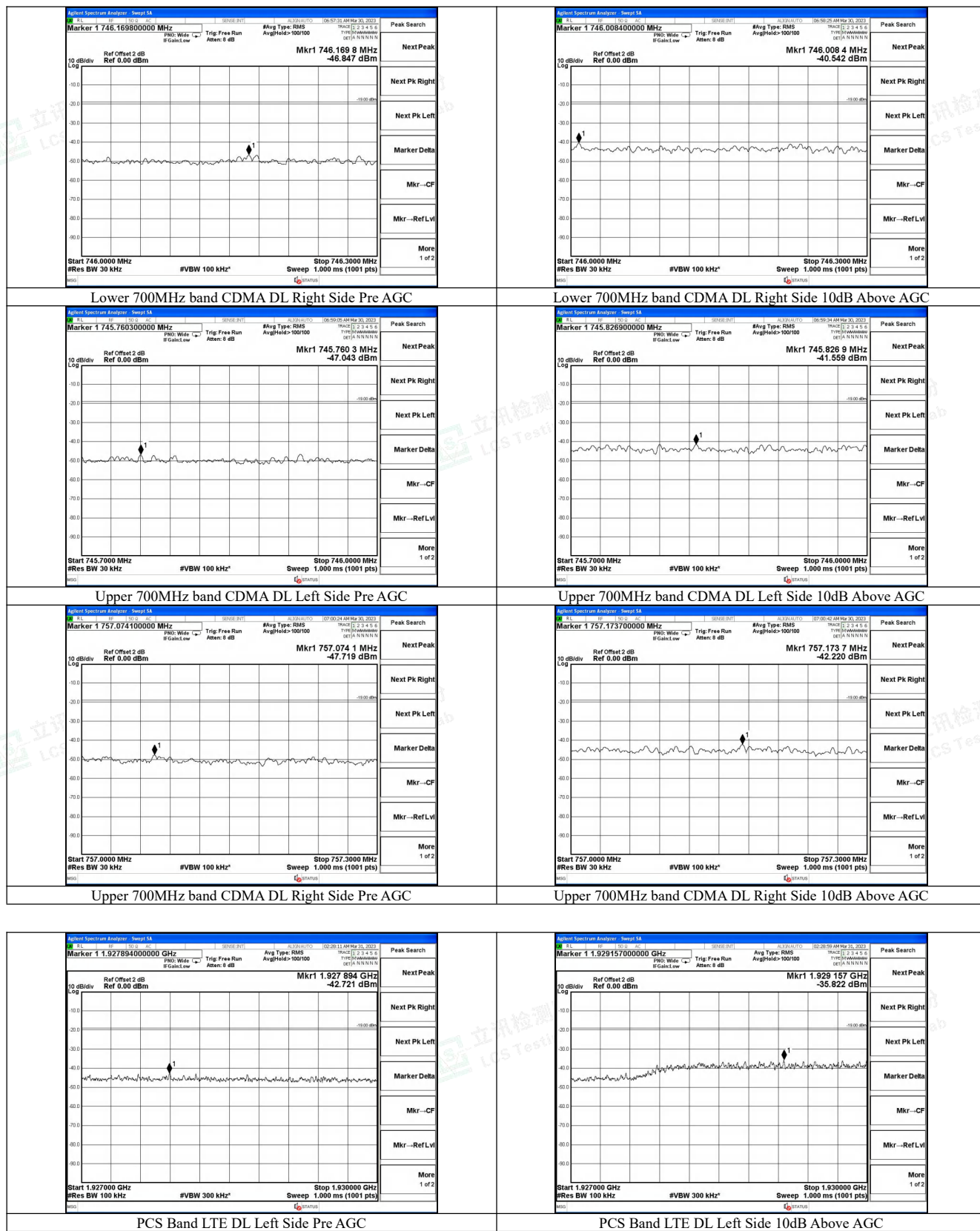
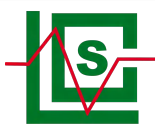
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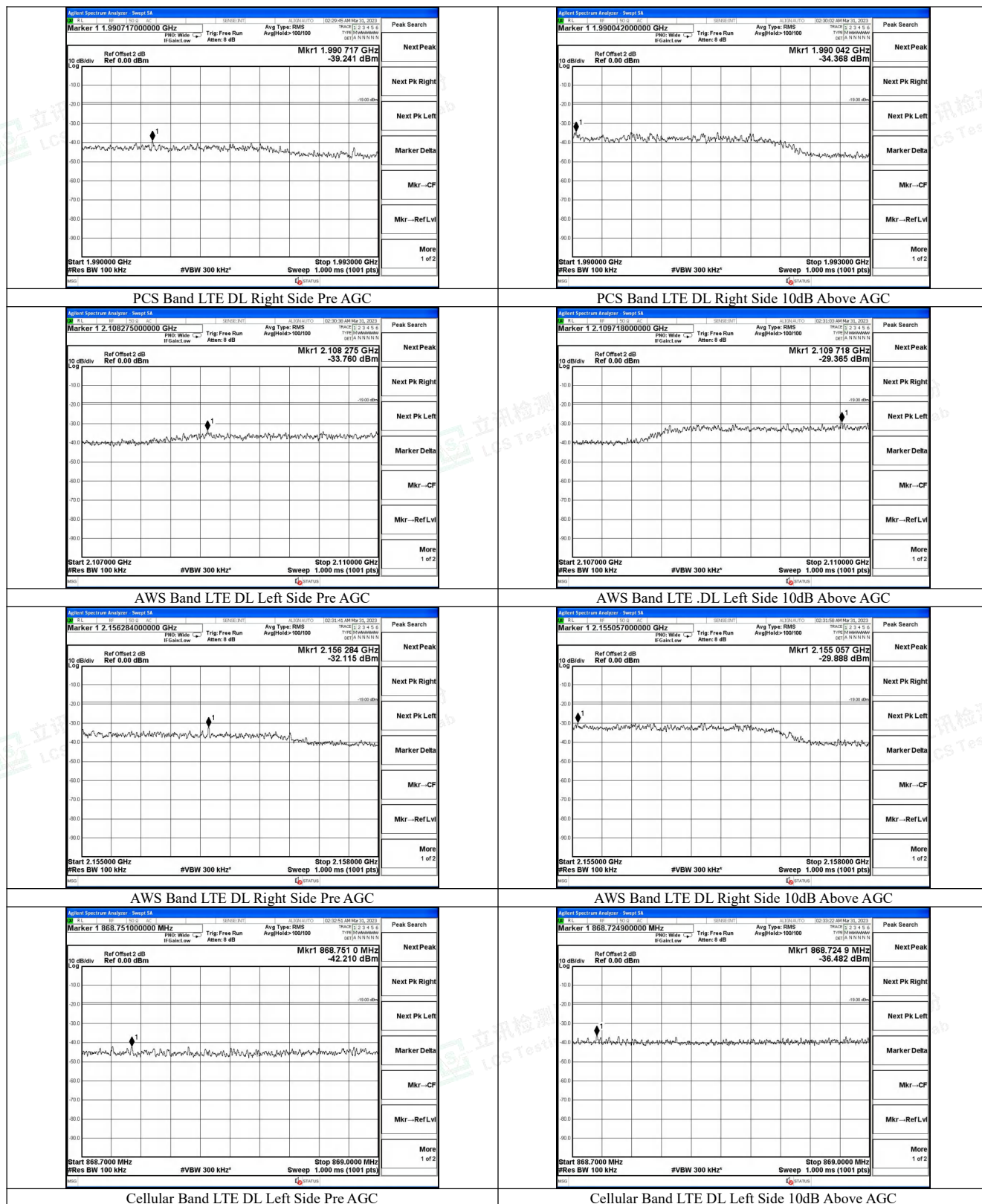
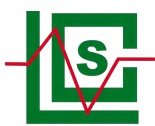
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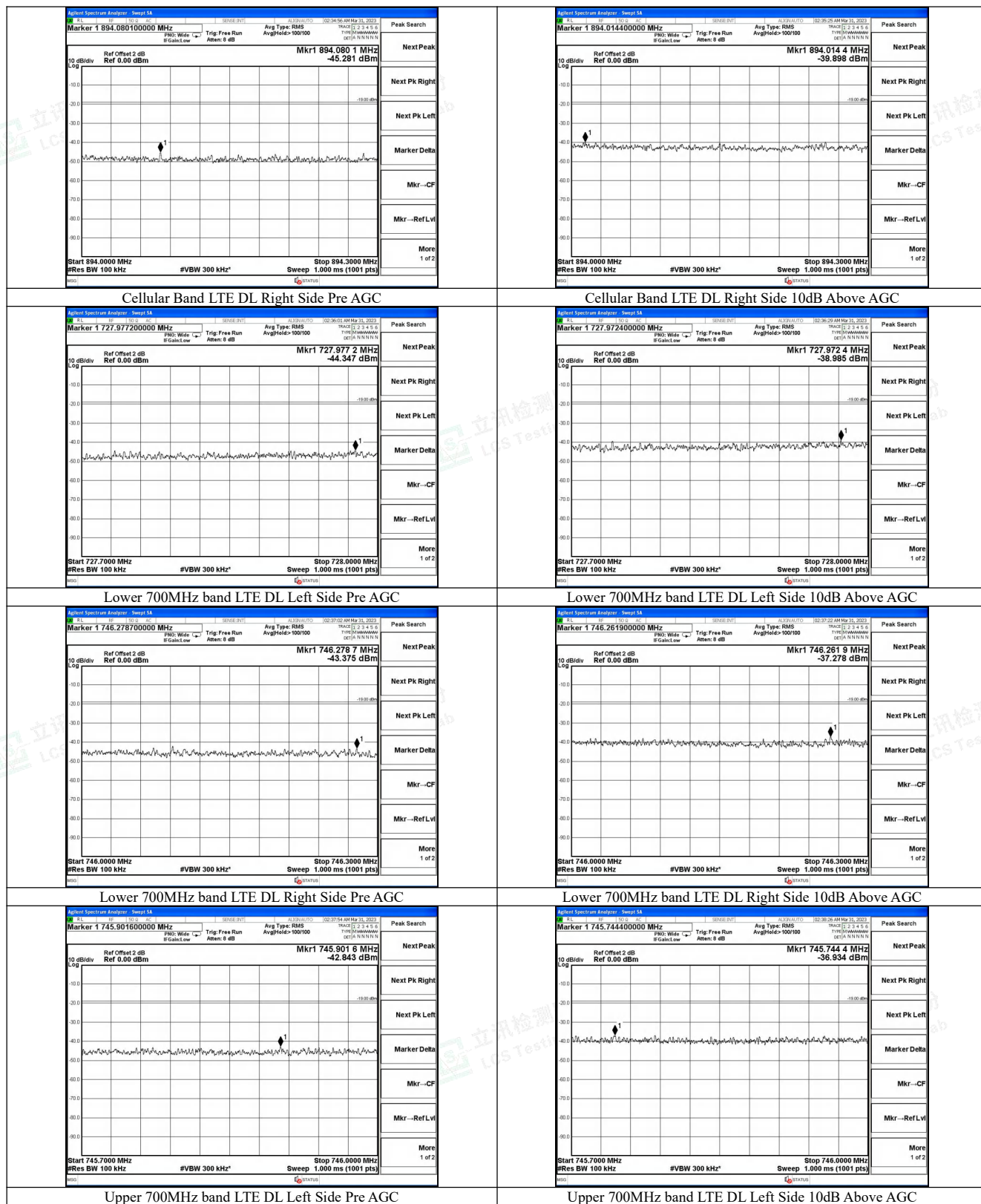
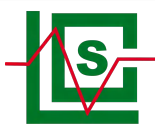
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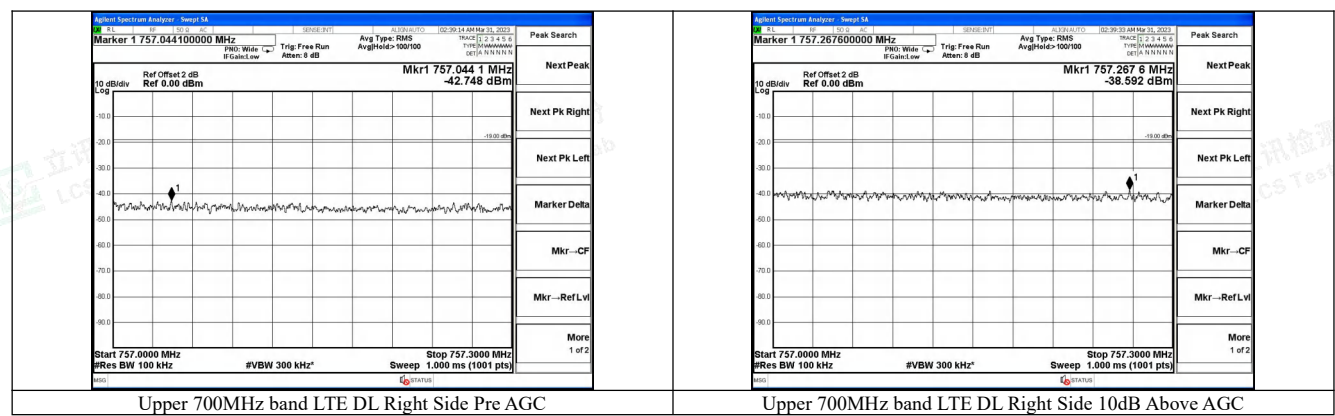


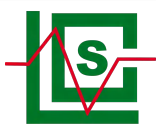
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6.6 Conducted Spurious Emission

Applicable Standard

According to § 2.1051 Spurious emissions at antenna terminals:

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

So the Conducted emissions limit = -13 dBm

Test Procedure

According to section 7.6 of KDB 935210 D03 Signal Booster Measurement v04r04:

The following procedures shall be used to demonstrate compliance to the applicable conducted spurious emissions limits as per Section 2.1051.

NOTE—For frequencies below 1 GHz, an RBW of 1 MHz may be used in a preliminary measurement. If non-compliant emissions are detected, a final measurement shall be made with a 100 kHz RBW. Additionally, a peak detector may also be used for the preliminary measurement. If non-compliant emissions are detected then a final measurement of these emissions shall be made with the power averaging (rms) detector.

- a) Connect the EUT to the test equipment as shown in Figure 1. Begin with the uplink output (donor) port connected to the spectrum analyzer.
- b) Configure the signal generator for AWGN with a 99% OBW of 4.1 MHz, with a center frequency corresponding to the center of the CMRS band under test.
- c) Set the signal generator amplitude to the level determined in the power measurement procedure in 7.2.
- d) Turn on the signal generator RF output and measure the spurious emission power levels with an appropriate measuring instrument as follows.
 - 1) Set RBW = measurement bandwidth specified in the applicable rule section for the operational frequency band under consideration (see Appendix A for relevant cross-references). Note that many of the individual rule sections permit the use of a narrower RBW [typically $\geq 1\%$ of the emission bandwidth (EBW)] to enhance measurement accuracy, but the result must then be integrated over the specified measurement bandwidth.
 - 2) Set VBW = 3 RBW.
 - 3) Select the power averaging (rms) detector. (See above note regarding the use of a peak detector for preliminary measurements.)
 - 4) Sweep time = auto-couple.
 - 5) Set the analyzer start frequency to the lowest radio frequency signal generated in the equipment, without going below 9 kHz, and the stop frequency to the lower band/block edge frequency minus 100 kHz or 1 MHz, as specified in the applicable rule part. Note that the number of measurement points in each sweep must be $\geq (2 \text{ span/RBW})$, which may require that the measurement range defined by the preceding start and stop frequencies be subdivided, depending on the available number of measurement points of the spectrum analyzer. Trace average at least 10 traces in power averaging (i.e., rms) mode.
 - 6) Sweep time = auto-couple.
 - 7) Use the peak marker function to identify the highest amplitude level over each measured frequency range. Record the frequency and amplitude and capture a plot for inclusion in the test report.
 - 8) Reset the analyzer start frequency to the upper band/block edge frequency plus 100 kHz or 1 MHz, as specified in the applicable rule part, and the analyzer stop frequency to 10 times the highest frequency of the fundamental emission. Note that the number of measurement points in each sweep must be $\geq (2 \text{ span/RBW})$ which may require that the measurement range defined by the start and stop frequencies above be subdivided, depending on the available number of measurement points provided by

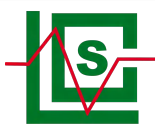


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the spectrum analyzer.

9) Use the peak marker function to identify the highest amplitude level over each of the measured frequency ranges. Record the frequency and amplitude and capture a plot for inclusion in the test report.

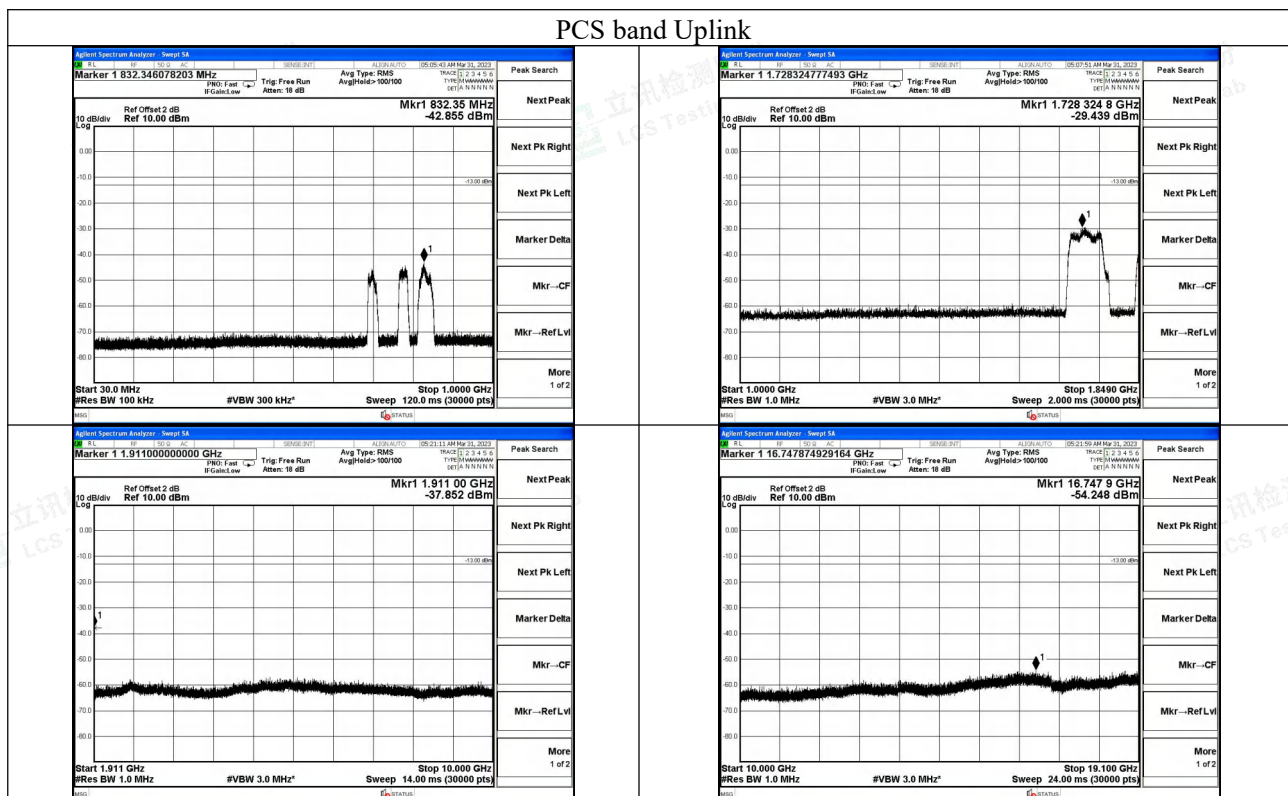
e) Repeat 7.6b) through 7.6d) for each supported frequency band of operation.

Test data

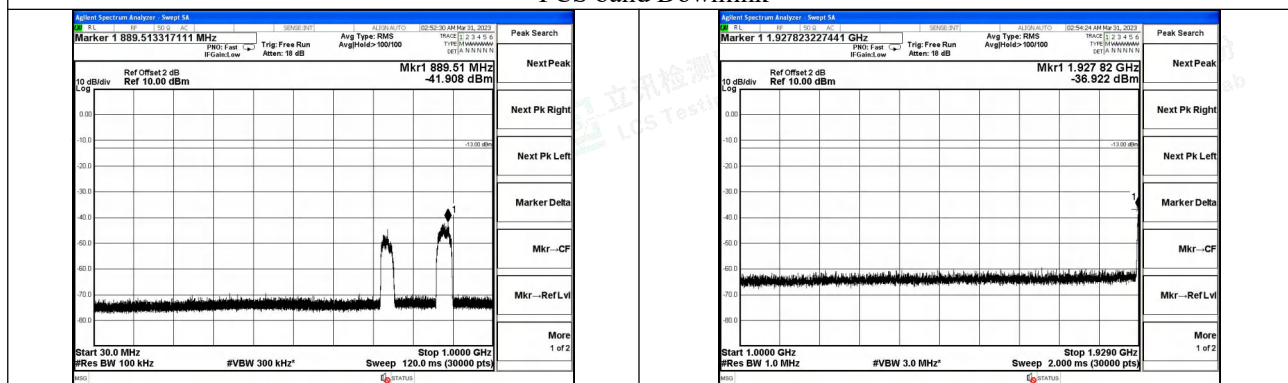
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Test Engineer	Ling Zhu	Test Mode	Transmitting

Test Graphs

PCS band Uplink



PCS band Downlink

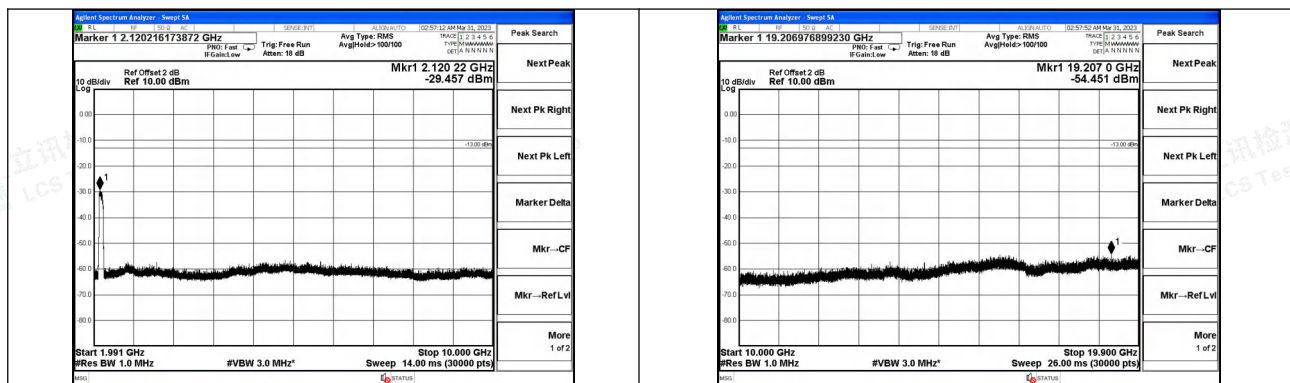
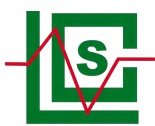


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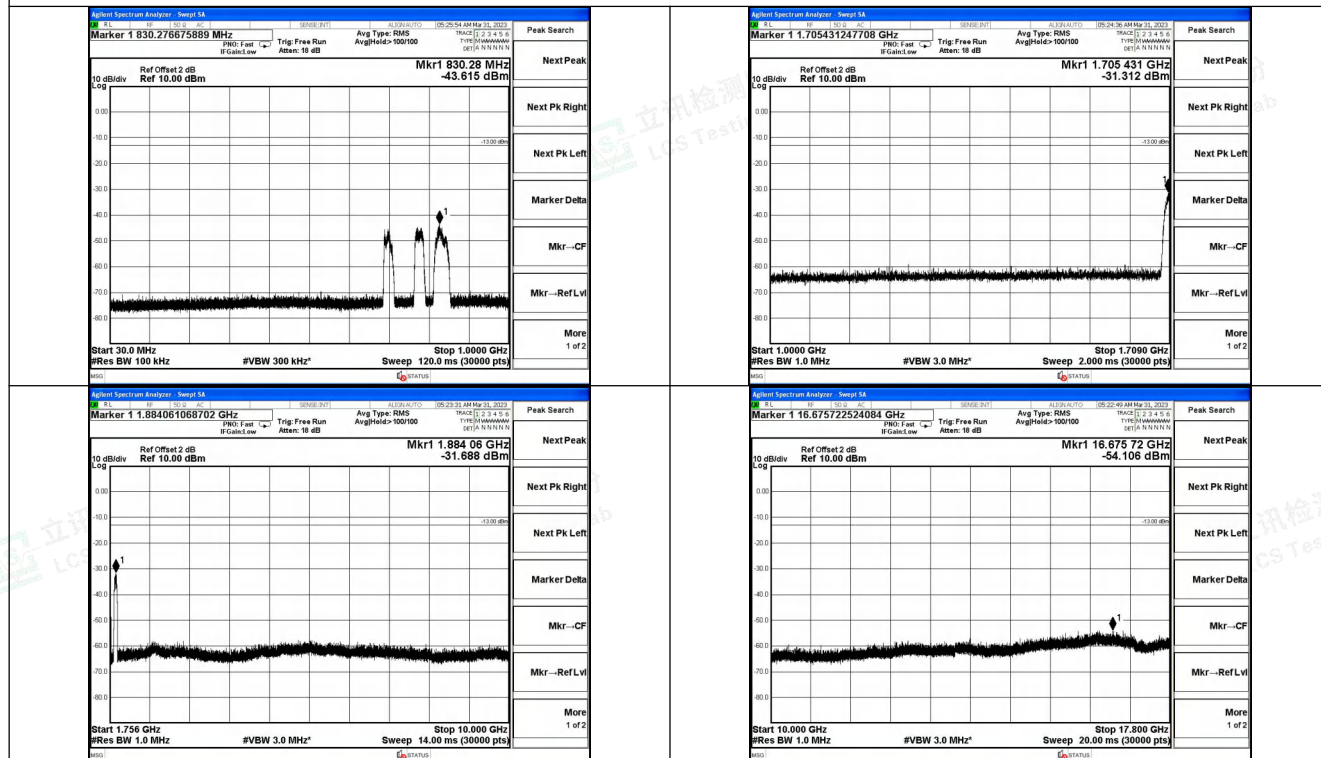
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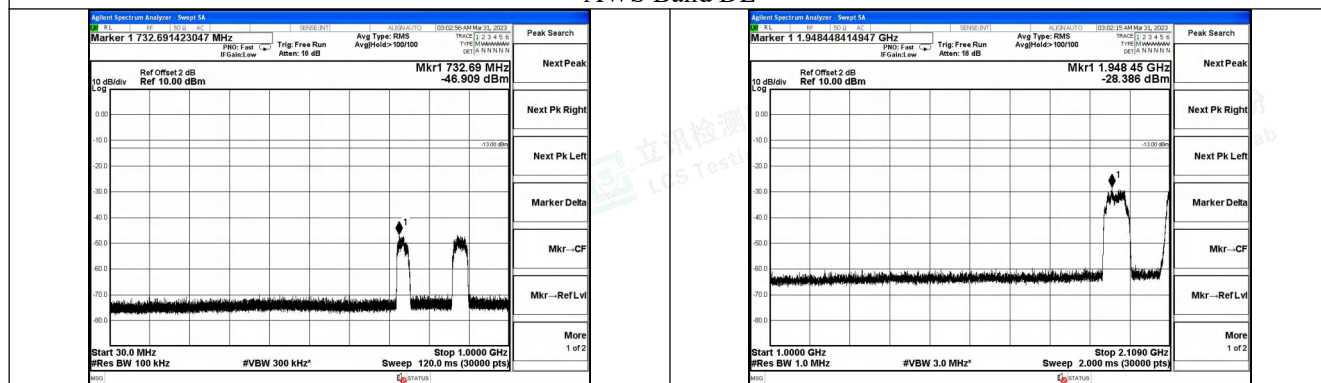
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AWS Band UL



AWS Band DL

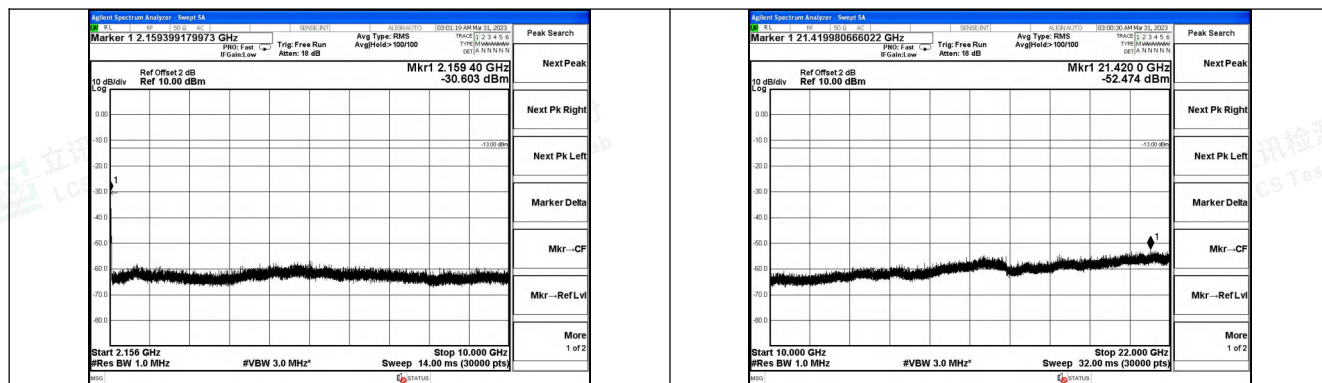


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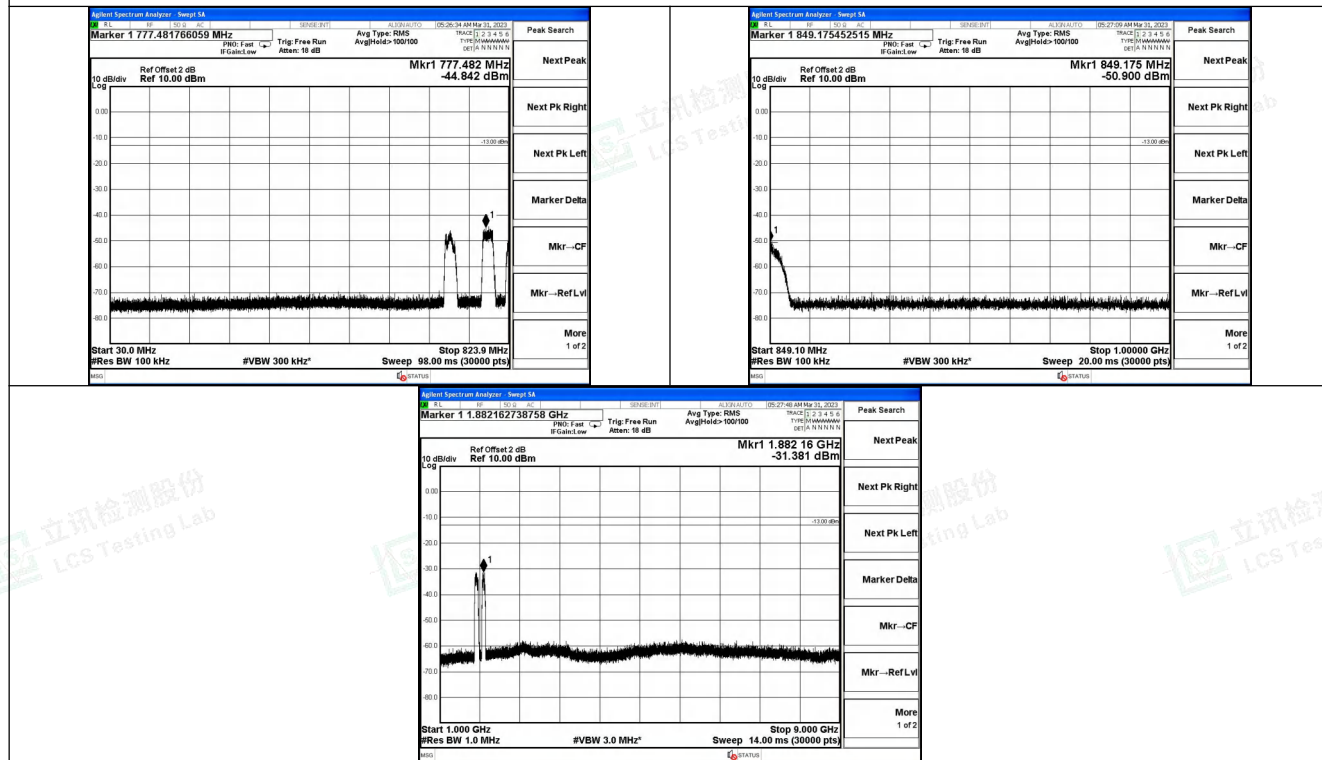
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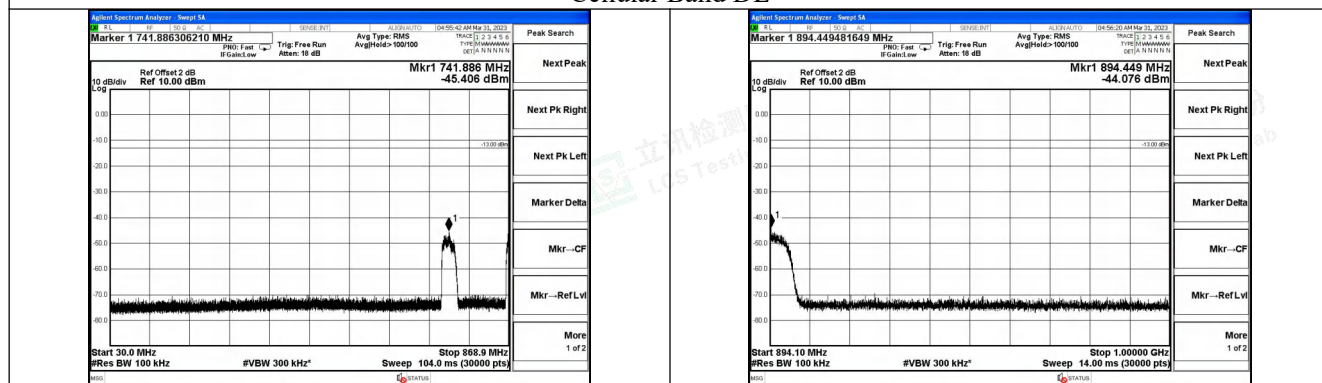
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Cellular Band UL



Cellular Band DL

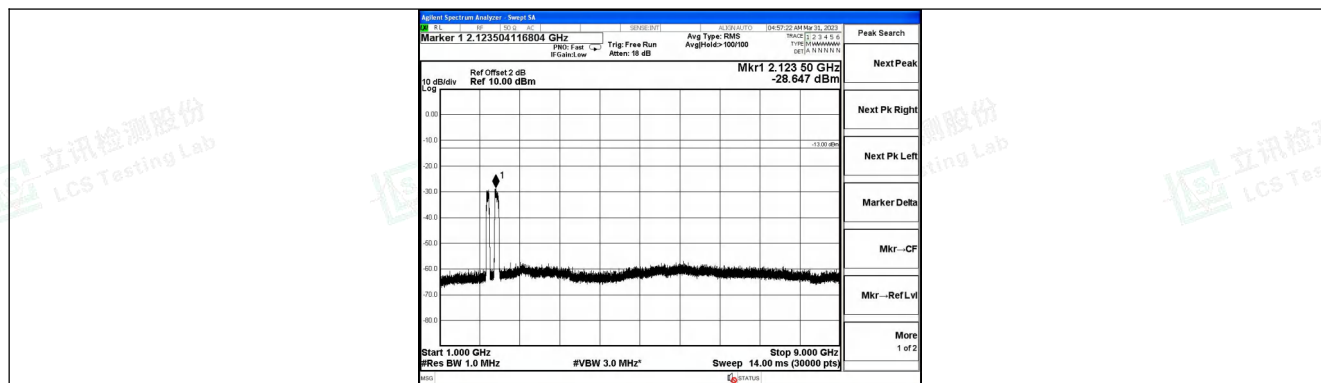
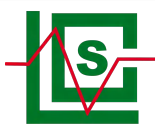


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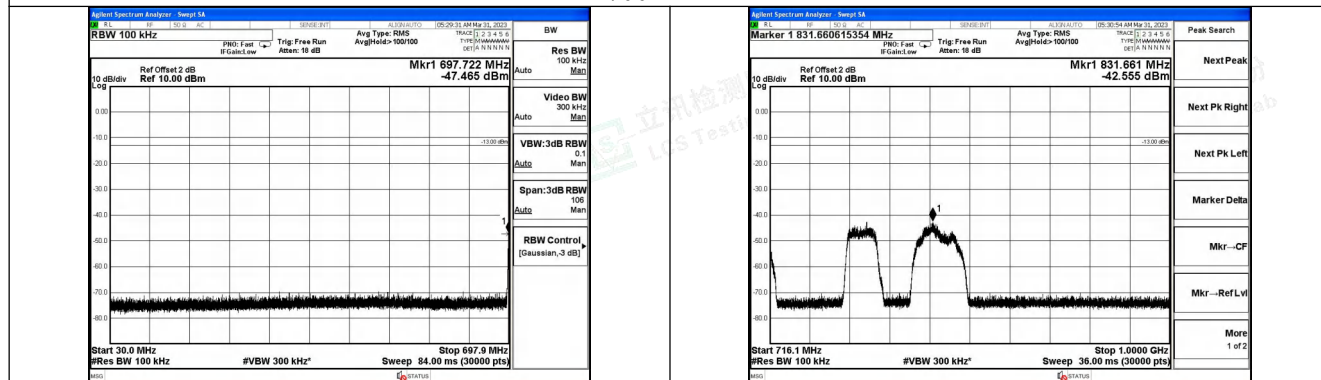
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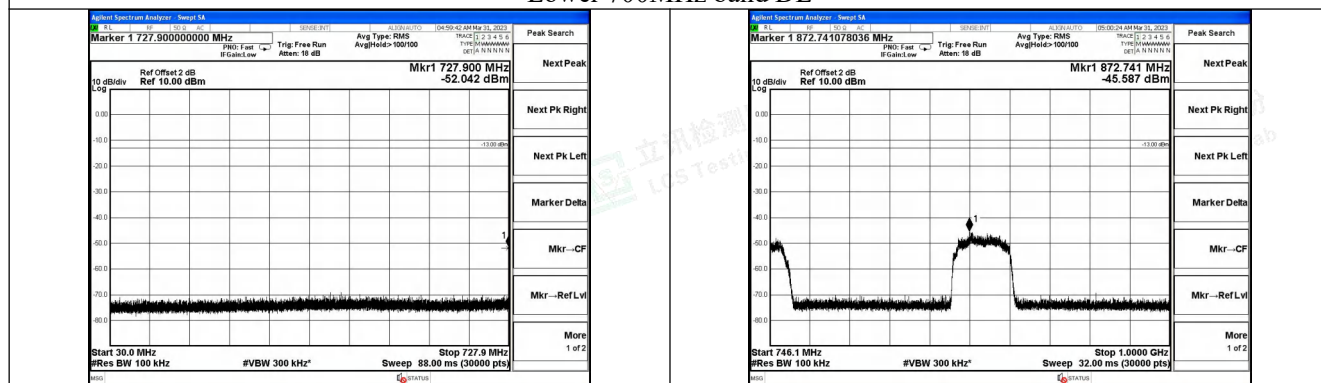
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Lower 700MHz band UL



Lower 700MHz band DL



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