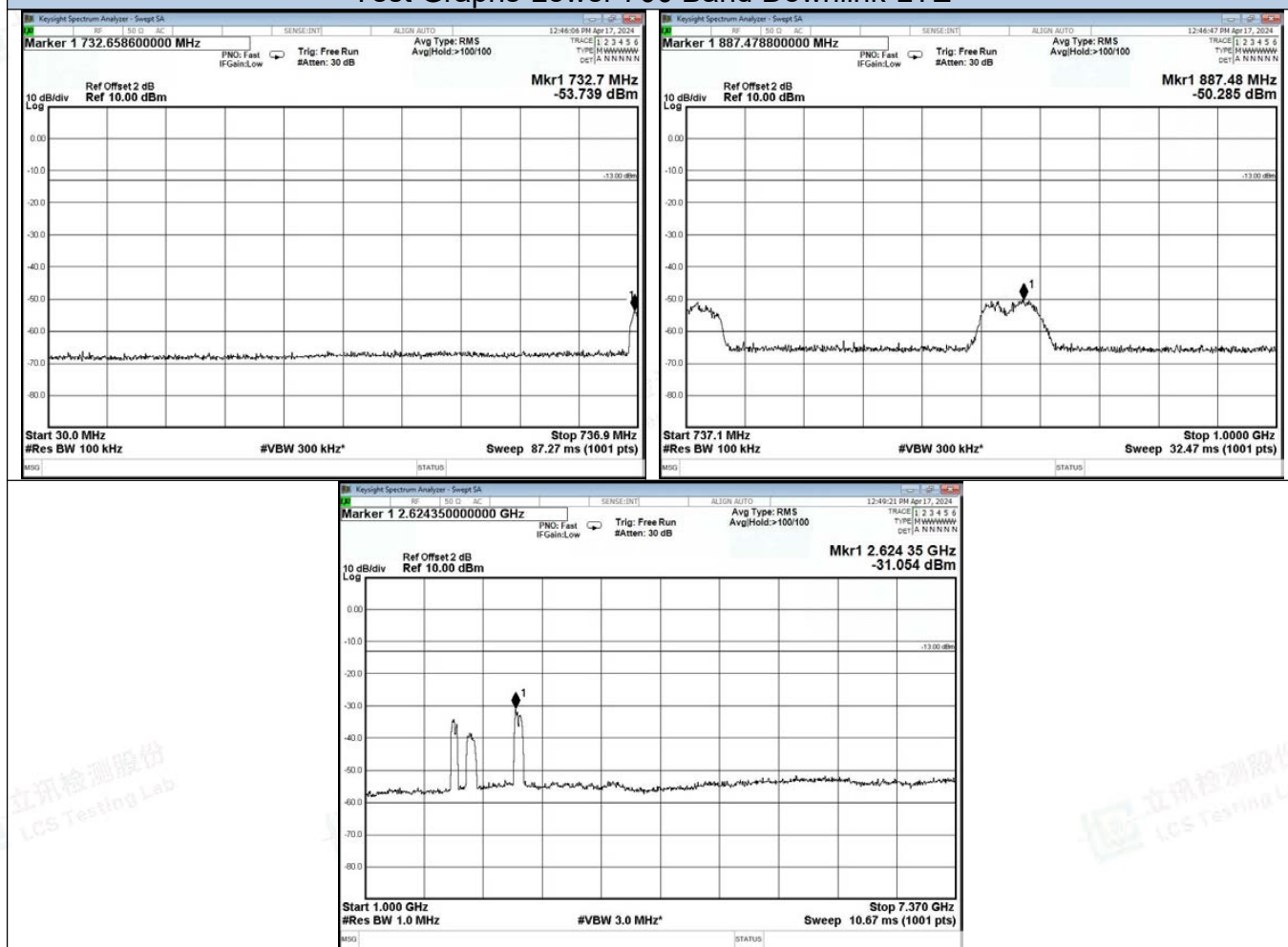




Test Graphs-Lower 700 Band Downlink-LTE



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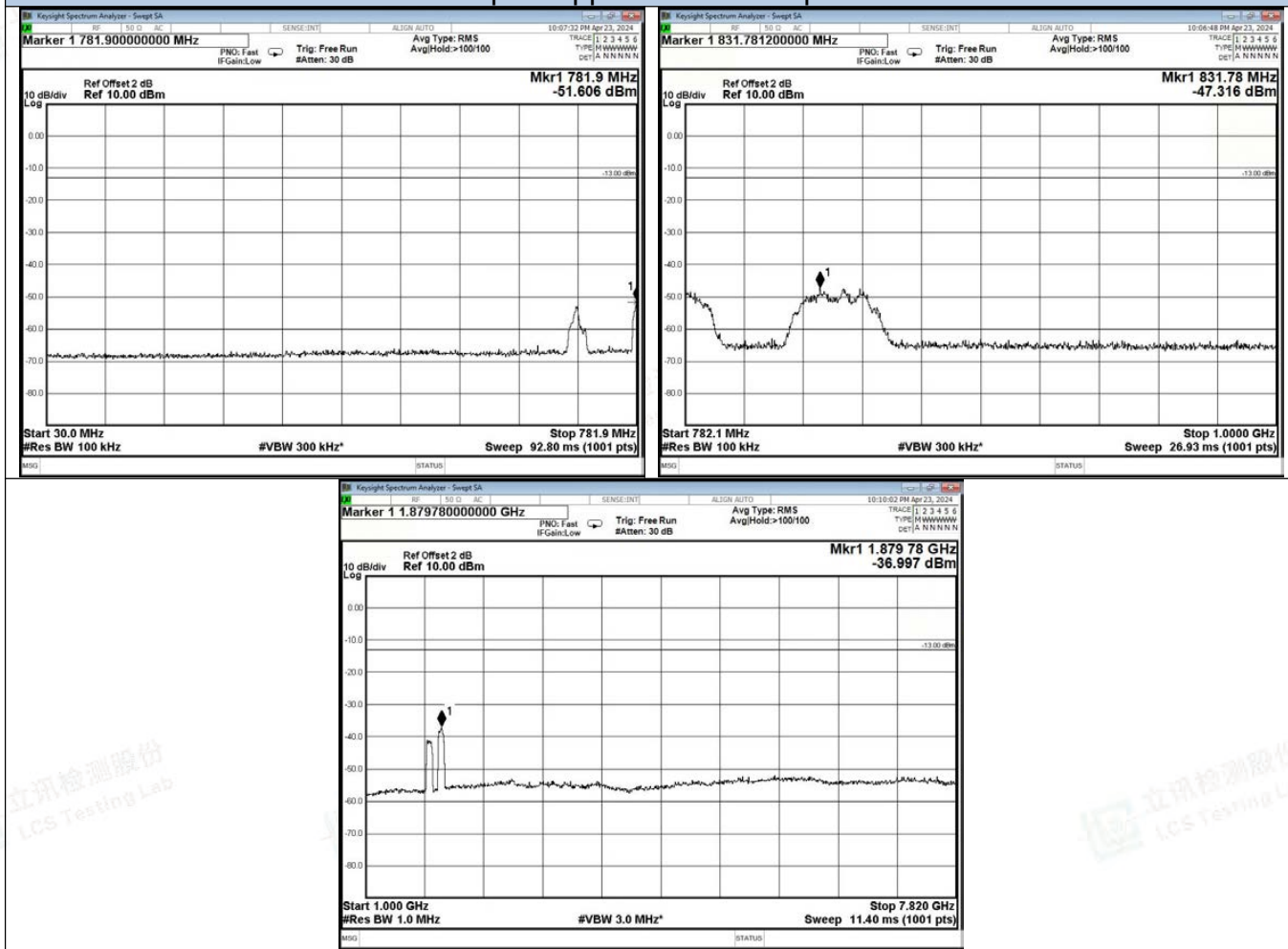
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs-Upper 700 Band Uplink-LTE



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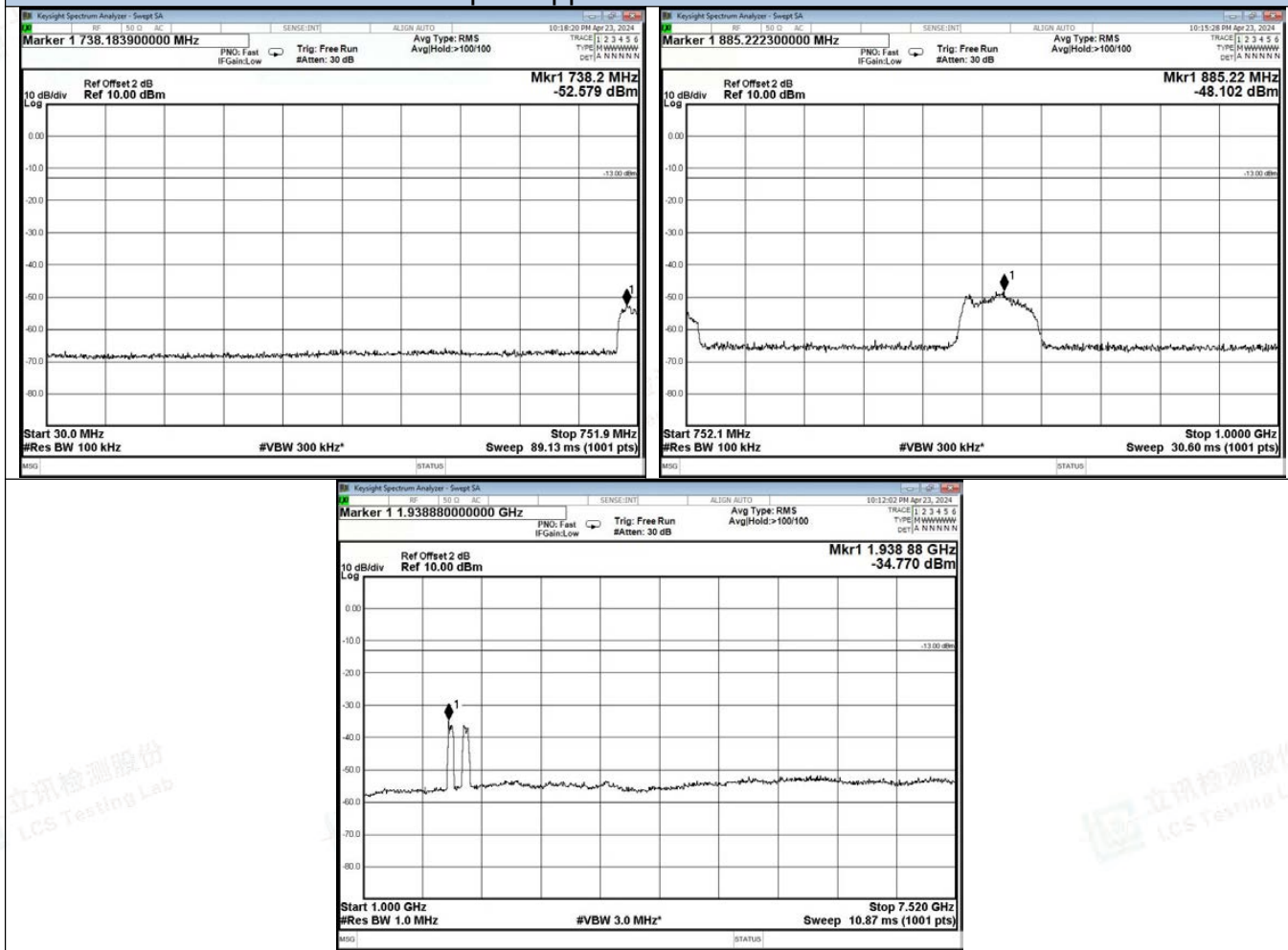
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Test Graphs-Upper 700 Band Downlink-LTE



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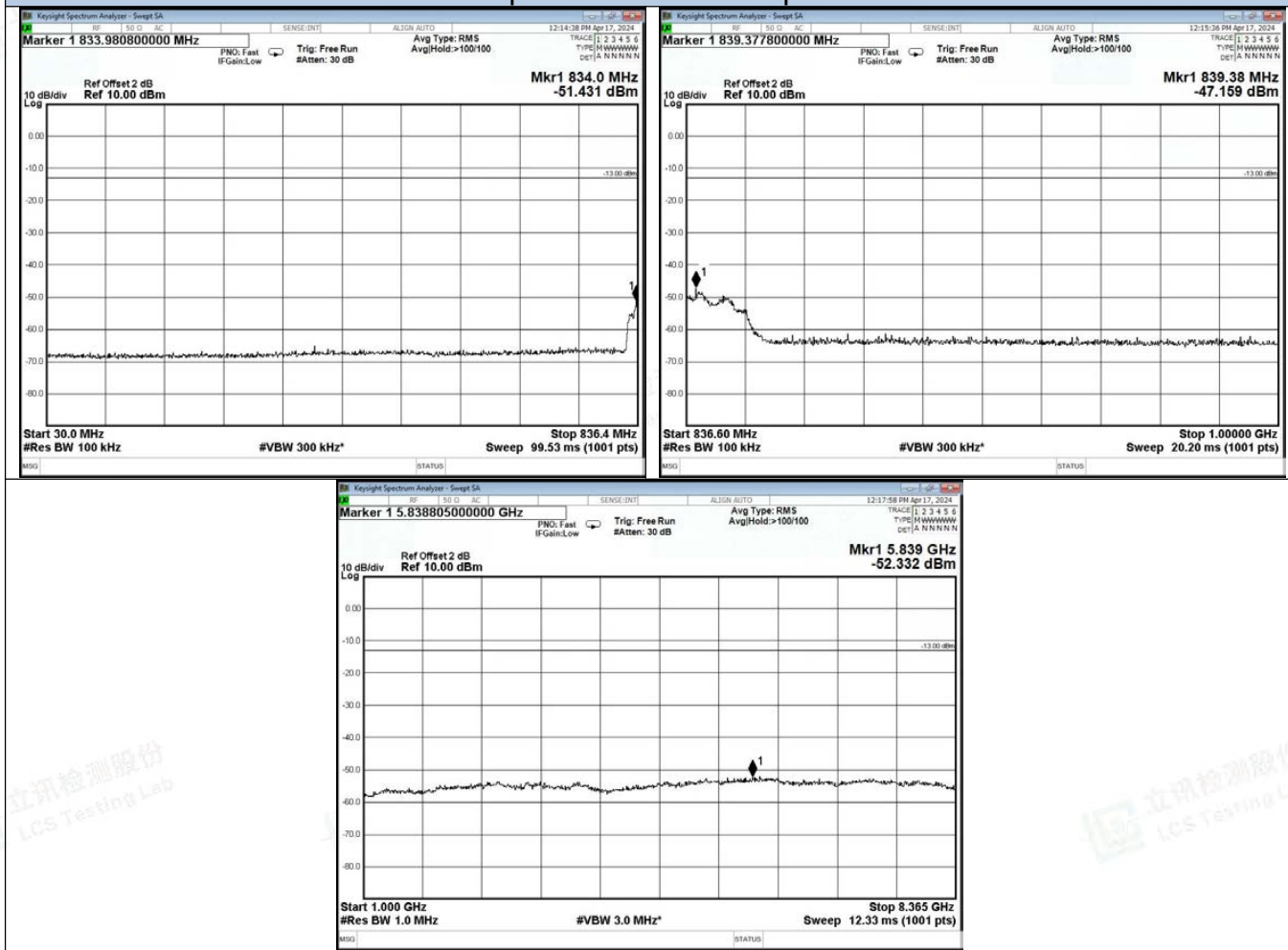
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs-Cellular Band Uplink-LTE



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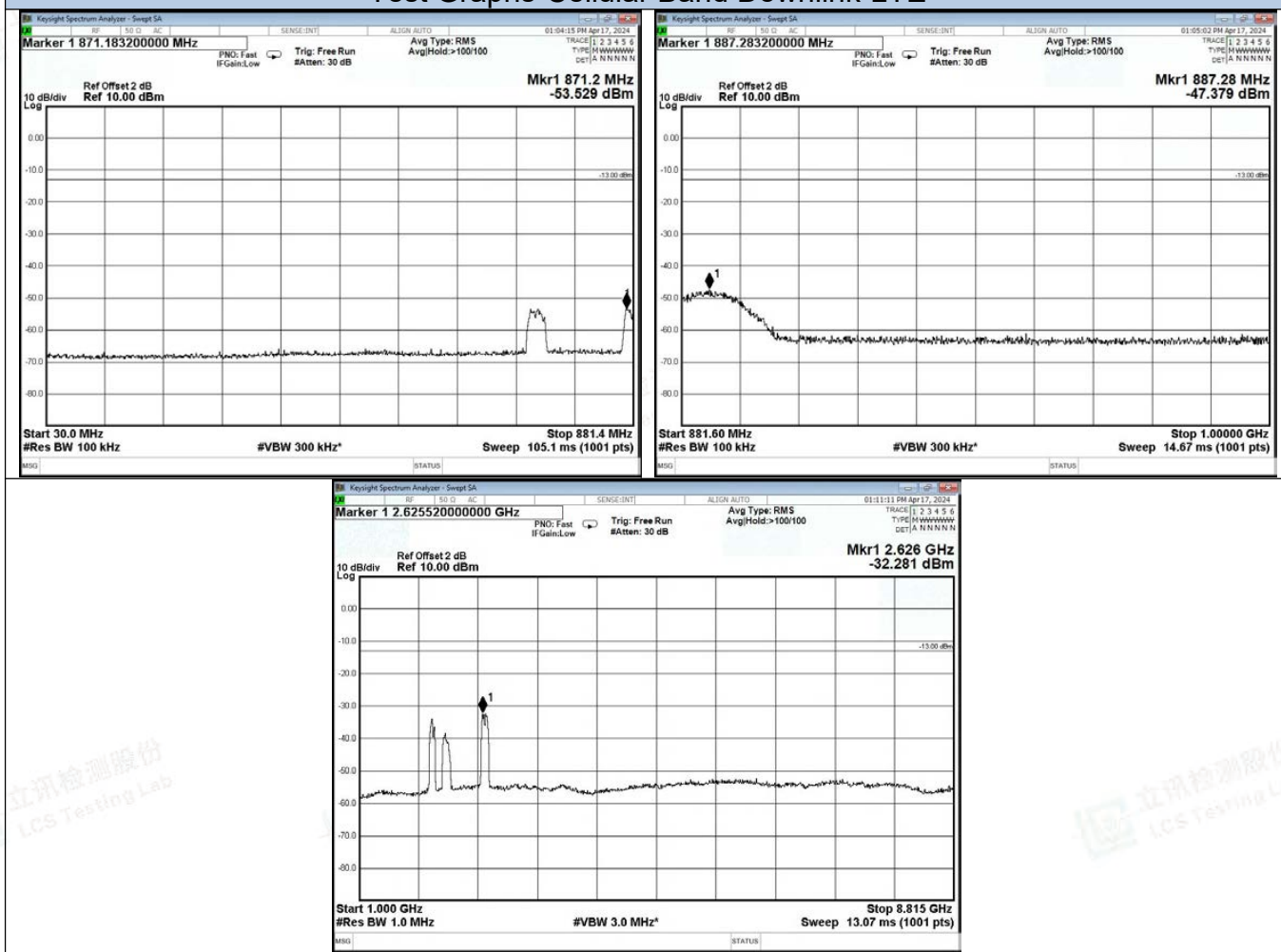
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs-Cellular Band Downlink-LTE



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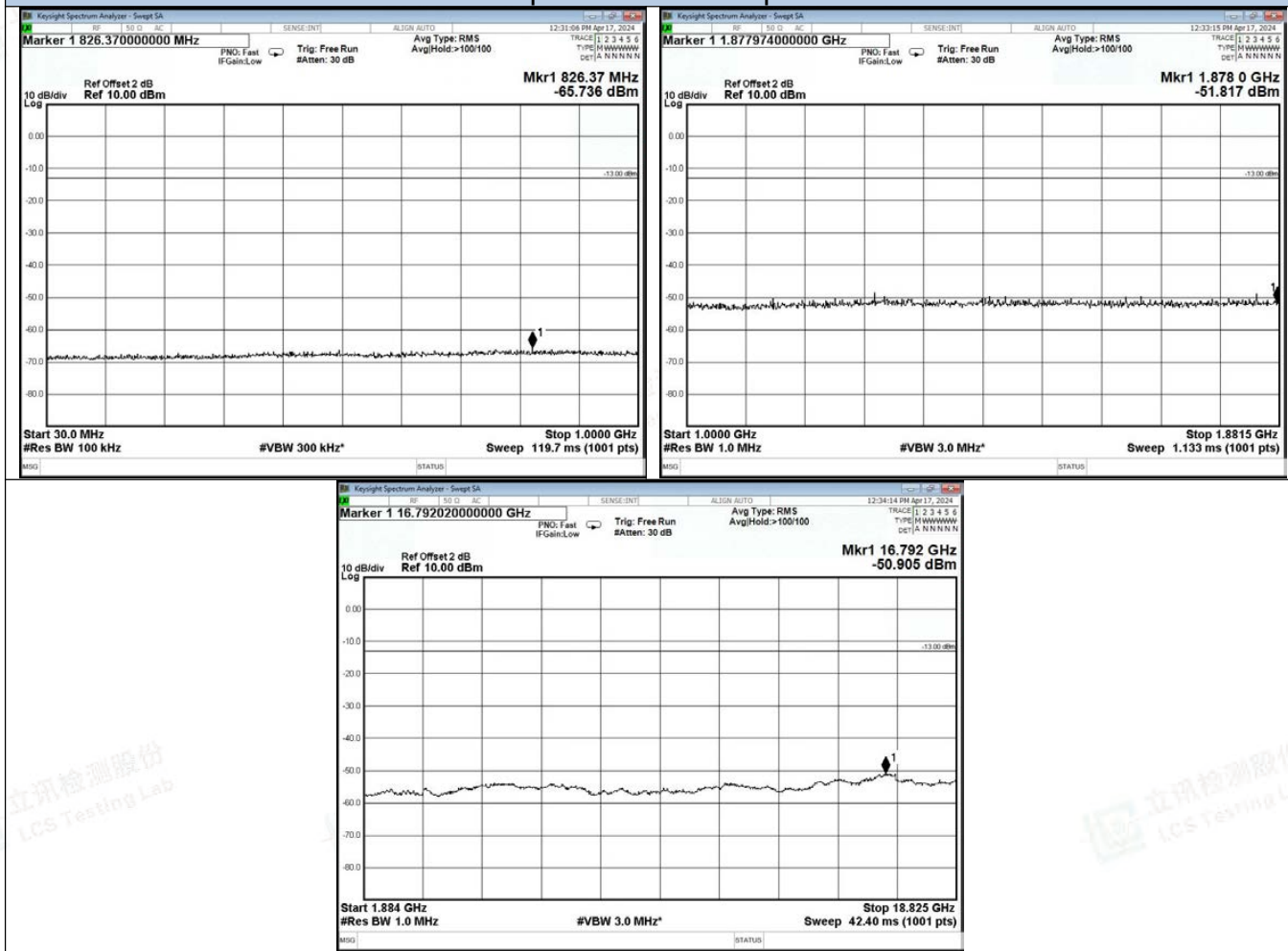
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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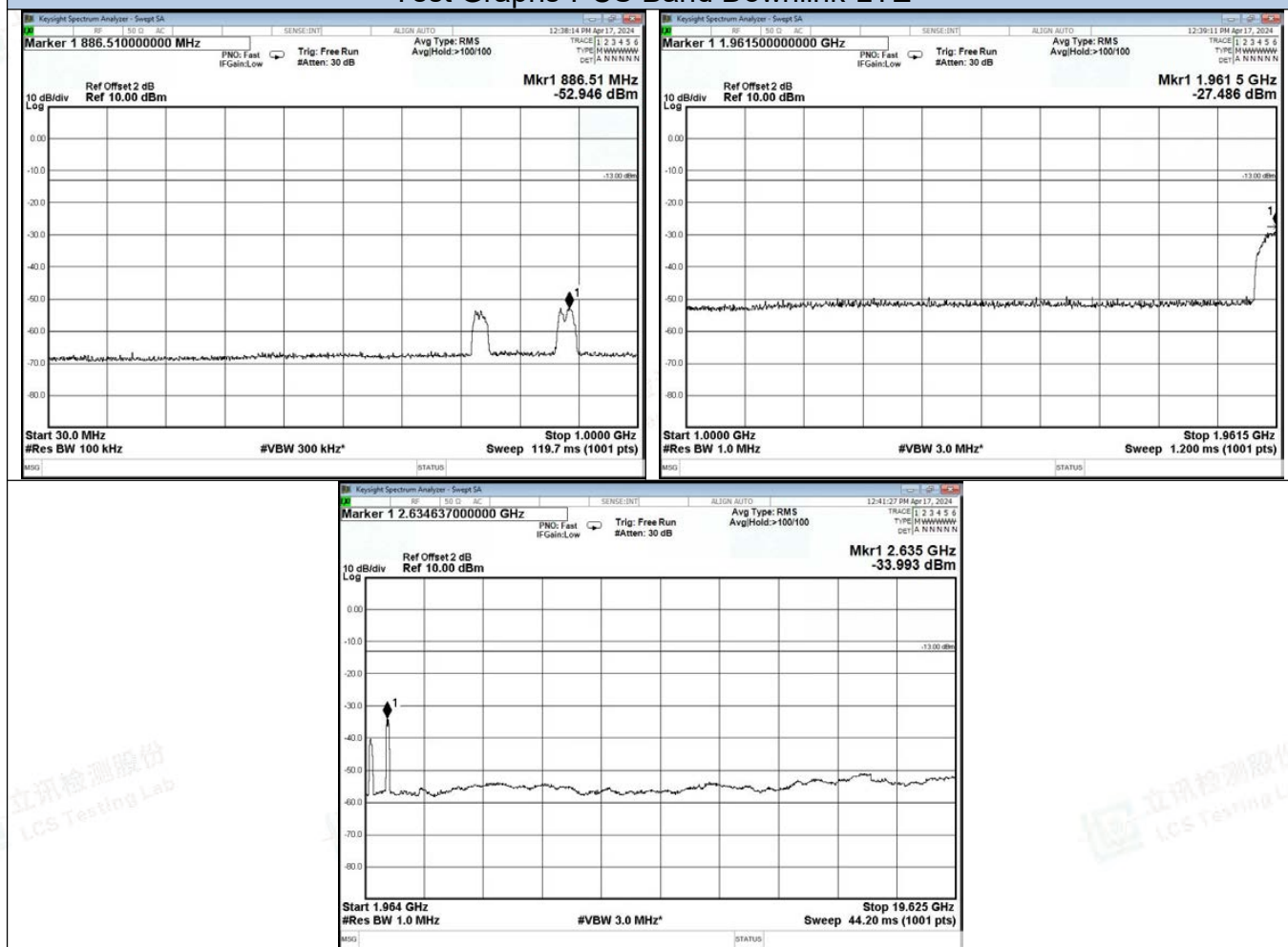


Test Graphs-PCS Band Uplink-LTE





Test Graphs-PCS Band Downlink-LTE



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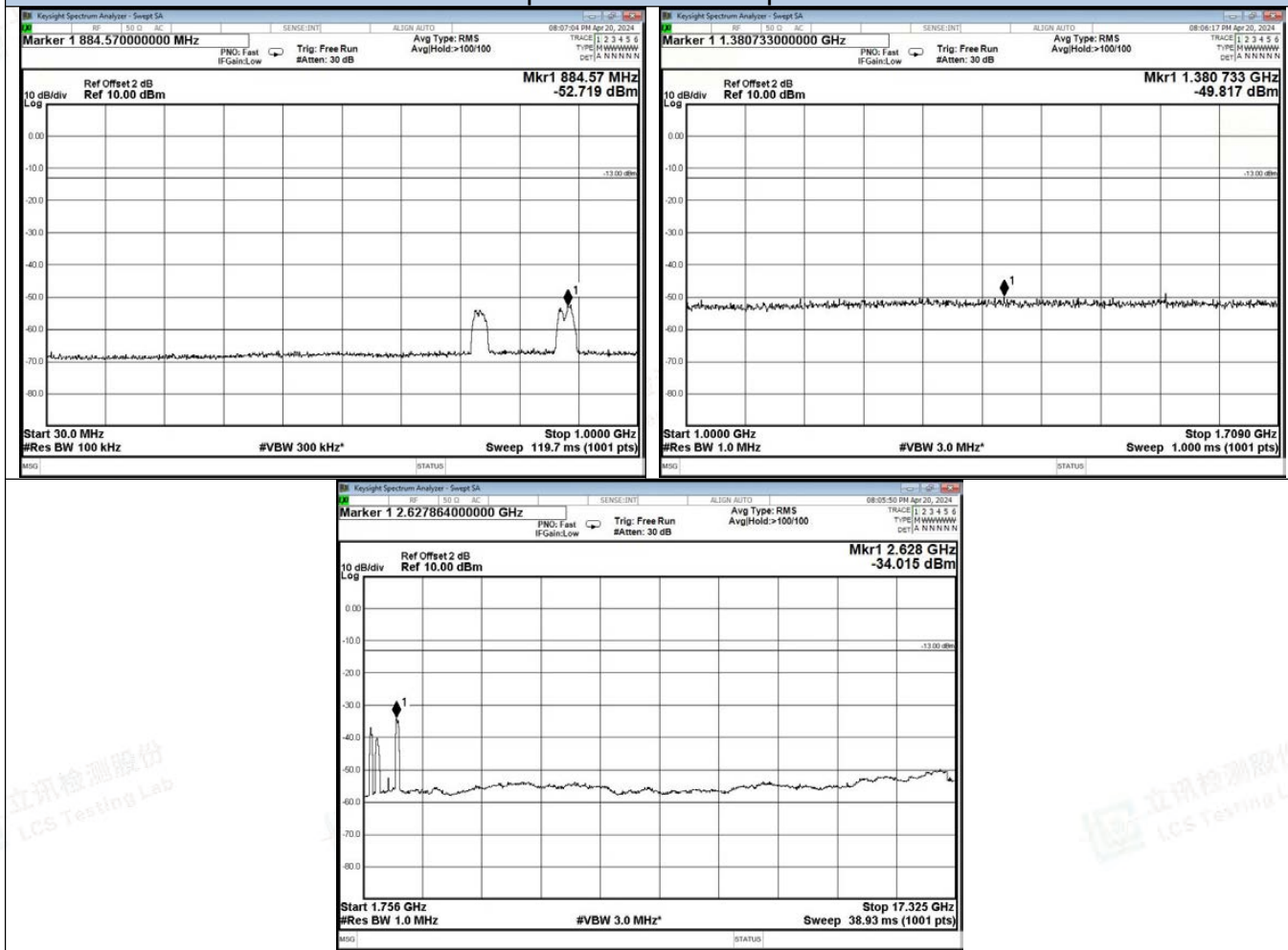
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs-AWS Band Uplink-LTE



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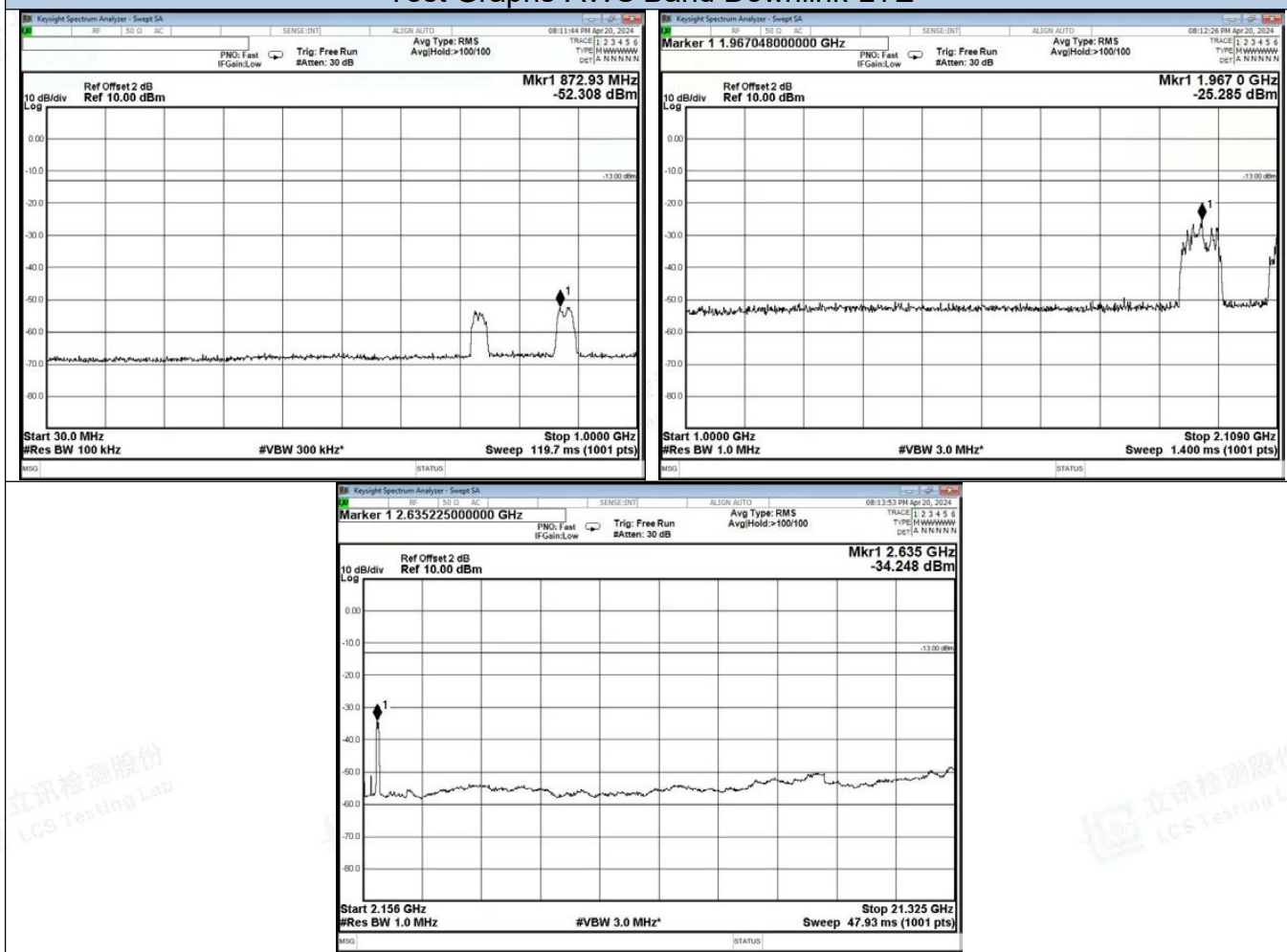
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs-AWS Band Downlink-LTE



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6.9 Uplink Inactivity

6.9.1 Applicable Standard

According to §20.21(e)(8)(i)(I) Uplink Inactivity:

When a consumer booster is not serving an active device connection after 5 minutes the uplink noise power shall not exceed -70 dBm/MHz.

6.9.2 Test Procedure

According to section 7.8 of KDB 935210 D03 Signal Booster Measurement v04r04:

- Connect the EUT to the test equipment as shown in Figure 1 with the uplink output (donor) port connected to the spectrum analyzer.
 - Select the power averaging (rms) detector.
 - Set the spectrum analyzer RBW for 1 MHz with the VBW ≥ 3 RBW.
 - Set the center frequency of the spectrum analyzer to the center of the uplink operational band.
 - Set the span for 0 Hz with a single sweep time for a minimum of 330 seconds.
 - Start to capture a new trace using MAX HOLD.
 - After approximately 15 seconds, turn on the EUT power.
 - After the full spectrum analyzer trace is complete, place a MARKER on the leading edge of the pulse, then use the DELTA MARKER METHOD to measure the time until the uplink becomes inactive.
 - Affirm that the noise level is below the uplink inactivity noise power limit, as specified by the rules.
 - Capture the plot for inclusion in the test report.
 - Measure noise using procedures in 7.7.1a) to 7.7.1f).
- Repeat 7.8d) through 7.8k) for all operational uplink bands.



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6.9.3 Test Data

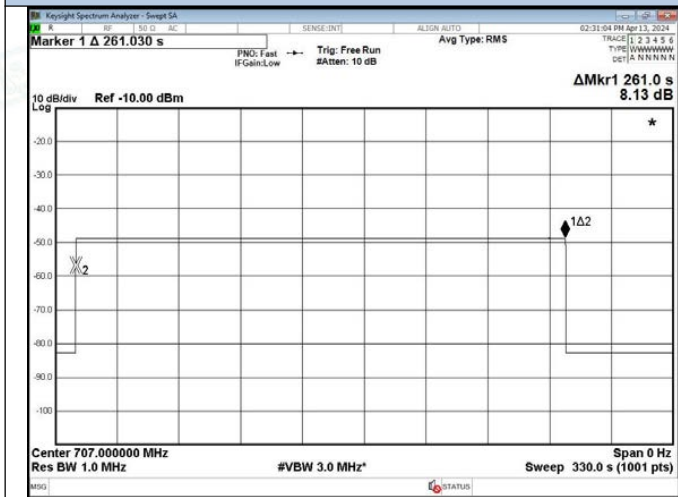
Temperature	23.6℃	Humidity	52.3%
Test Engineer	Nick Peng	Test Mode	Transmitting

Uplink Inactivity			
Operation Band	Measured (s)	Limit (s)	Result
Lower 700 Band	261.0	300.0	PASS
Upper 700 Band	262.7	300.0	PASS
Cellular Band	269.0	300.0	PASS
PCS Band	261.4	300.0	PASS
AWS Band	261.0	300.0	PASS

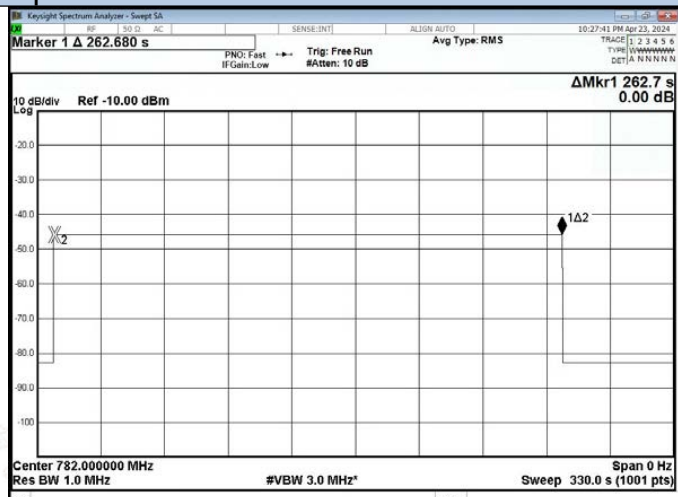




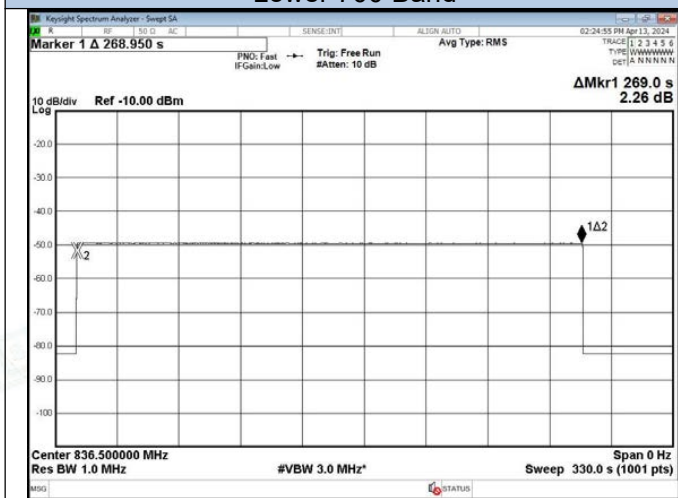
Test Graphs



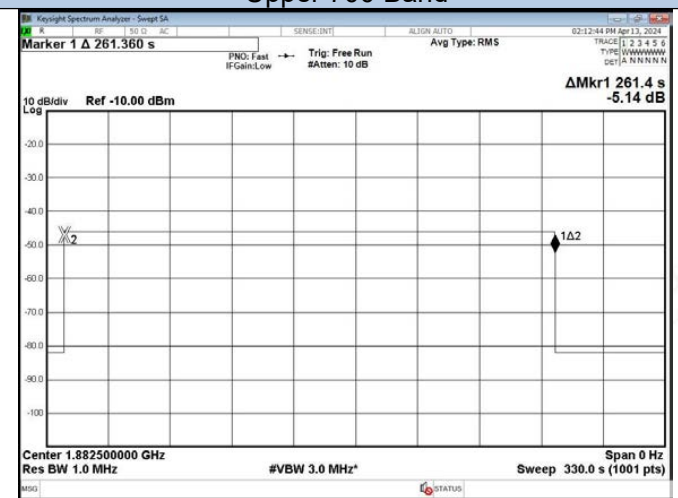
Lower 700 Band



Upper 700 Band



Cellular Band



PCS Band



AWS Band



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6.10 Occupied Bandwidth

6.10.1 Applicable Standard

According to §2.1049 Measurements required: Occupied bandwidth.

This measurement is required to compare the consistency of the output signal relative to the input signal, and to satisfy the requirements of Section 2.1049.

6.10.2 Test Procedure

According to section 7.10 of KDB 935210 D03 Signal Booster Measurement v04r04:

- Connect the test equipment as shown in Figure 10 to firstly measure the characteristics of the test signals produced by the signal generator.
- Set VBW $\geq$ 3 RBW.
- Set the center frequency of the spectrum analyzer to the center of the operational band. The span will be adjusted for each modulation type and OBW as necessary for accurately viewing the signals.
- Set the signal generator for power level to match the values obtained from the tests of 7.2.
- Set the signal generator modulation type for GSM with a PRBS pattern and allow the trace on the signal generator to stabilize adjusting the span as necessary.
- Set the spectrum analyzer RBW for 1% to 5% of the EBW.
- Capture the spectrum analyzer trace for inclusion in the test report.
- Repeat 7.10c) to 7.10g) for CDMA and W-CDMA modulation, adjusting the span as necessary. AWGN or LTE may be used in place of W-CDMA, as an option.
- Repeat 7.10c) to 7.10h) for all uplink and downlink operational bands.
- Connect the test equipment as shown in Figure 10, with the uplink output (donor) port connected to the spectrum analyzer, and the server port connected to the signal generator.
- Repeat 7.10c) to 7.10i) with this EUT uplink path test setup.
- Connect the test equipment as shown in Figure 10, with the downlink output (server) port connected to the spectrum analyzer, and the donor port connected to the signal generator.
- Repeat 7.10c) to 7.10i) with this EUT downlink path test setup.

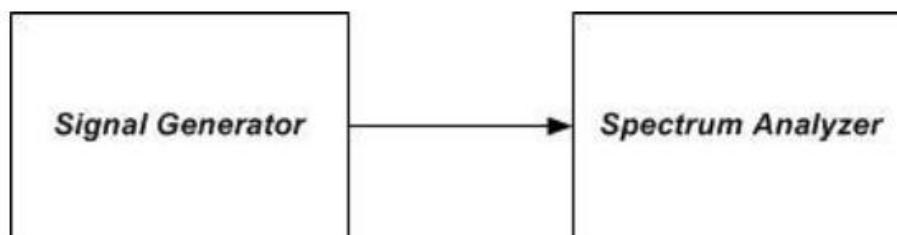


Figure 10 – Test setup for measuring characteristics of test signals used for subsequent EUT occupied bandwidth testing





6.10.3 Test data

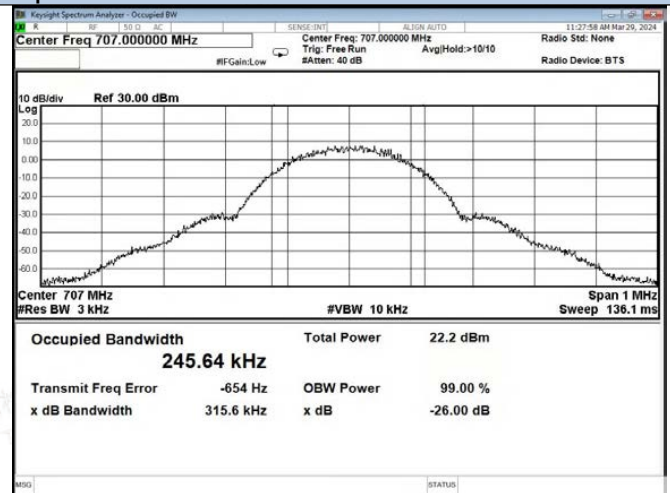
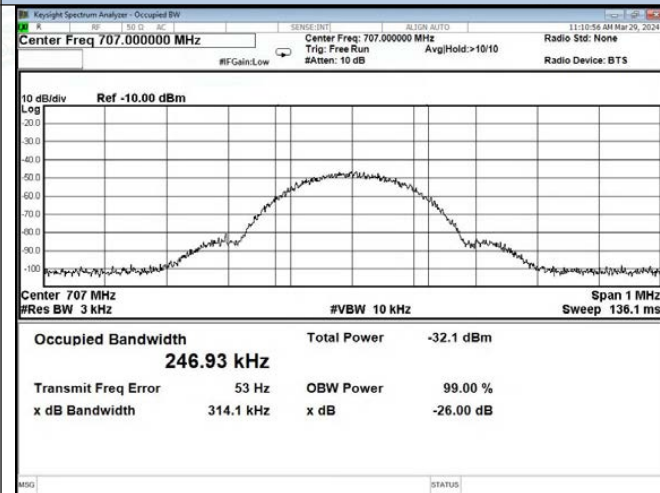
Temperature	23.6℃	Humidity	52.3%
Test Engineer	Nick Peng	Test Mode	Transmitting

Operation Band		Signal Type	Input OBW (MHz)	Output OBW (MHz)
Uplink	Lower 700 Band	GSM	0.247	0.246
		CDMA	1.2377	1.2422
		LTE	4.2485	4.2424
	Upper 700 Band	GSM	0.247	0.245
		CDMA	1.2284	1.2298
		LTE	4.2548	4.2506
	Cellular Band	GSM	0.246	0.248
		CDMA	1.2333	1.2442
		LTE	4.2489	4.2422
	PCS Band	GSM	0.246	0.246
		CDMA	1.2358	1.2501
		LTE	4.2631	4.2388
	AWS Band	GSM	0.246	0.245
		CDMA	1.2376	1.2375
		LTE	4.2533	4.2502
Downlink	Lower 700 Band	GSM	0.246	0.244
		CDMA	1.2369	1.2379
		LTE	4.2668	4.2342
	Upper 700 Band	GSM	0.245	0.245
		CDMA	1.2257	1.2291
		LTE	4.2578	4.2294
	Cellular Band	GSM	0.245	0.246
		CDMA	1.2314	1.2287
		LTE	4.2631	4.2255
	PCS Band	GSM	0.247	0.246
		CDMA	1.2370	1.2339
		LTE	4.2576	4.2339
	AWS Band	GSM	0.245	0.244
		CDMA	1.2403	1.2370
		LTE	4.2671	4.2469

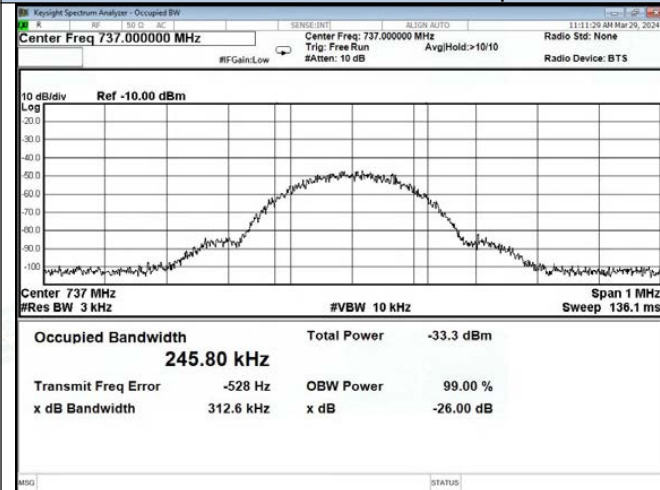




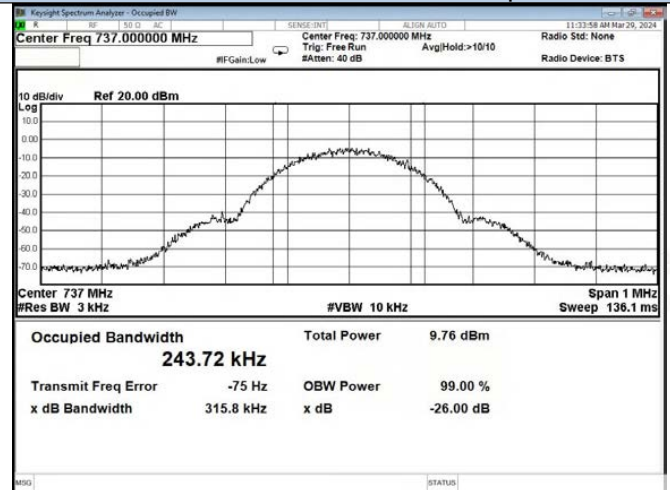
Test Graphs



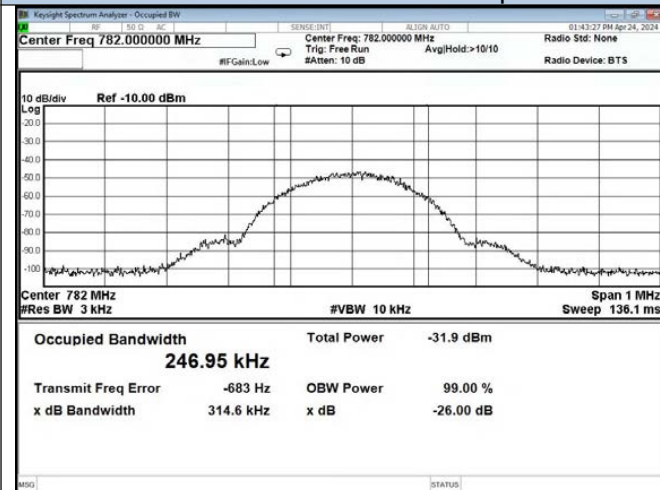
GSM-Lower 700 Band UL Input



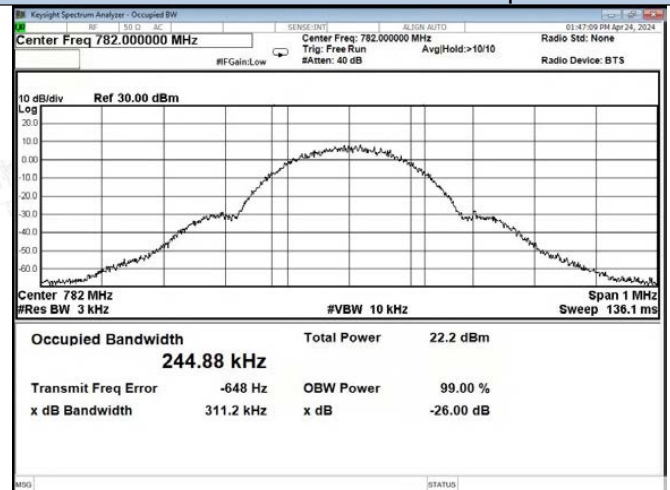
GSM-Lower 700 Band UL Output



GSM-Lower 700 Band DL Input



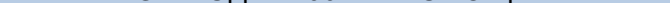
GSM-Lower 700 Band DL Output



GSM-Upper 700 Band UL Input



GSM-Upper 700 Band UL Output

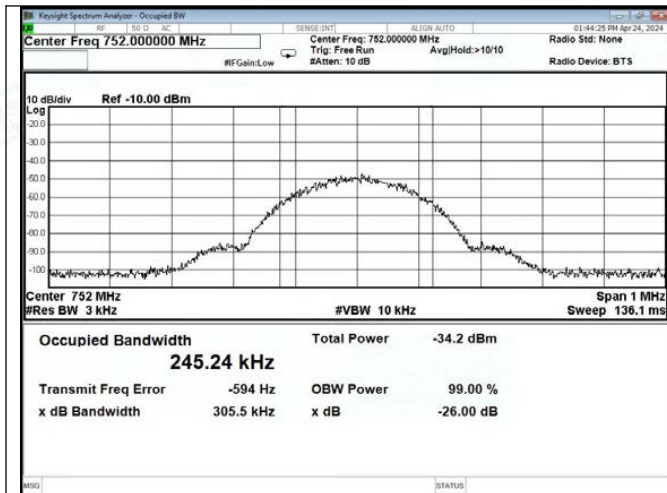


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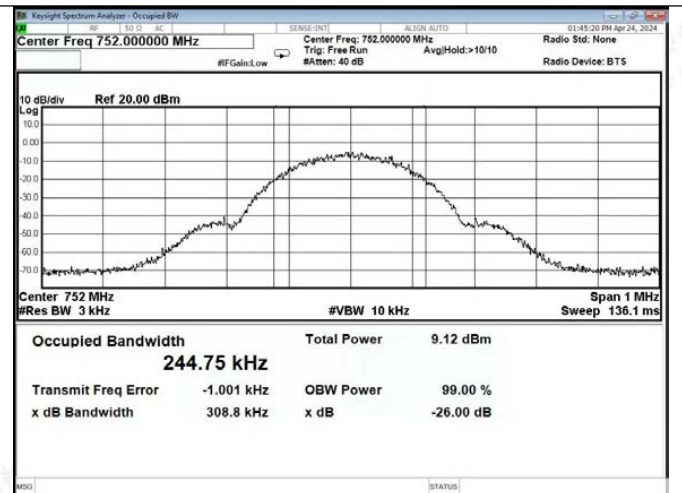
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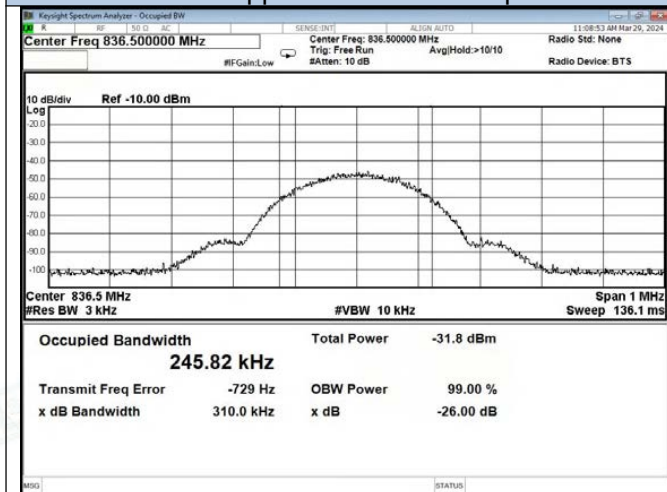
Scan code to check authenticity



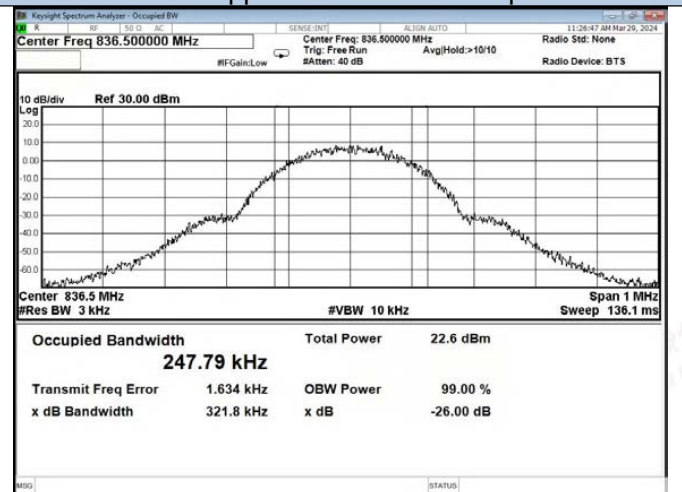
GSM-Upper 700 Band DL Input



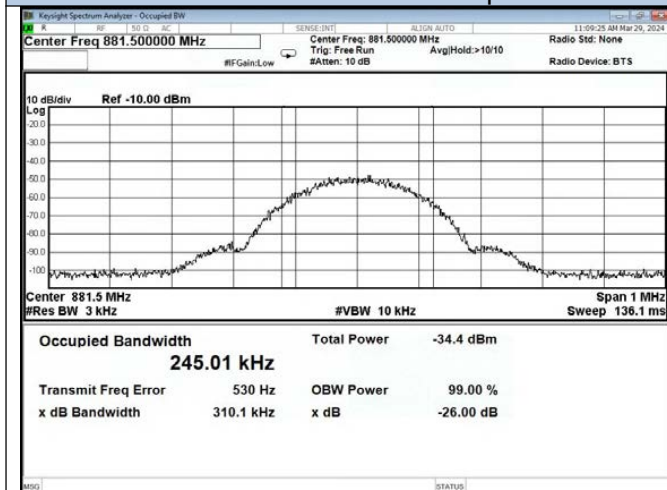
GSM-Upper 700 Band DL Output



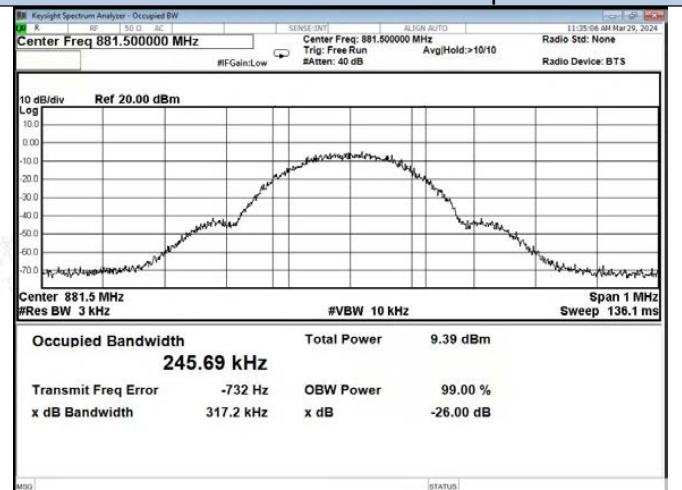
GSM-Cellular Band UL Input



GSM-Cellular Band UL Output

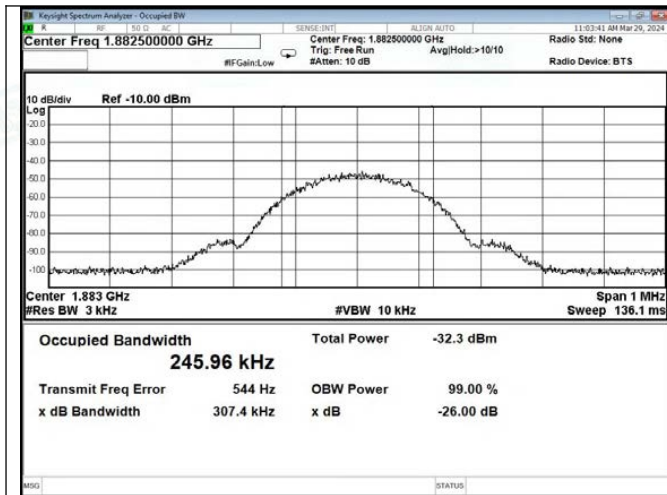


GSM-Cellular Band DL Input

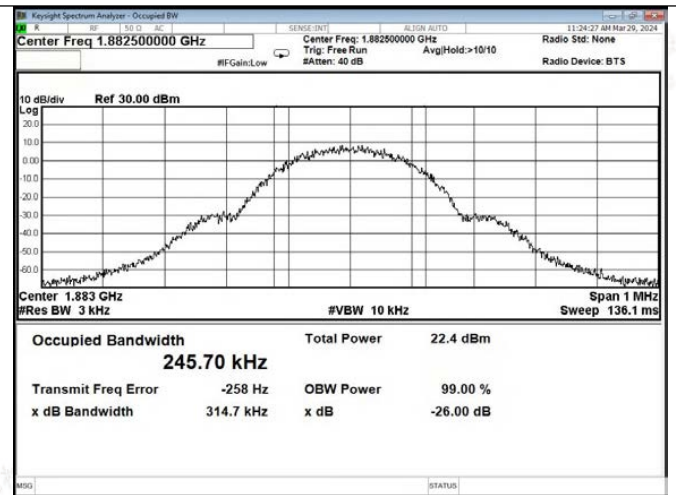


GSM-Cellular Band DL Output

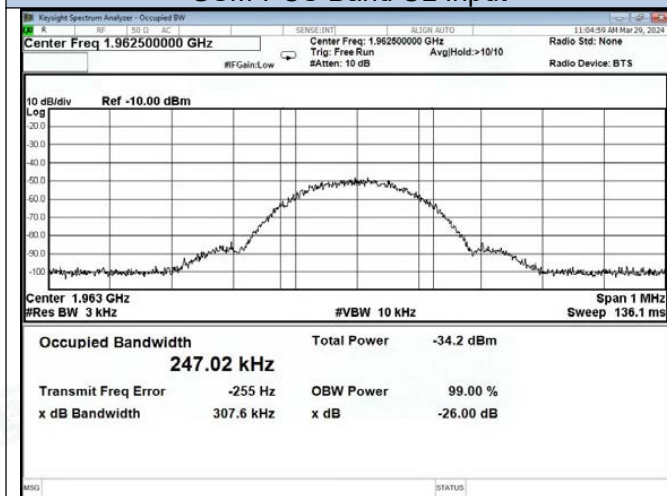




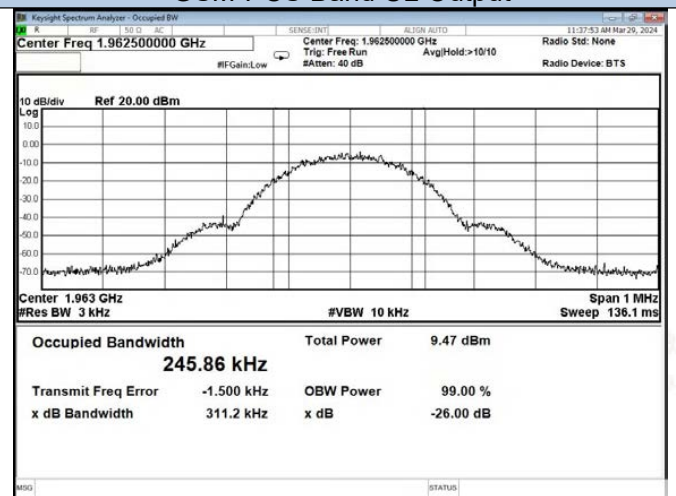
GSM-PCS Band UL Input



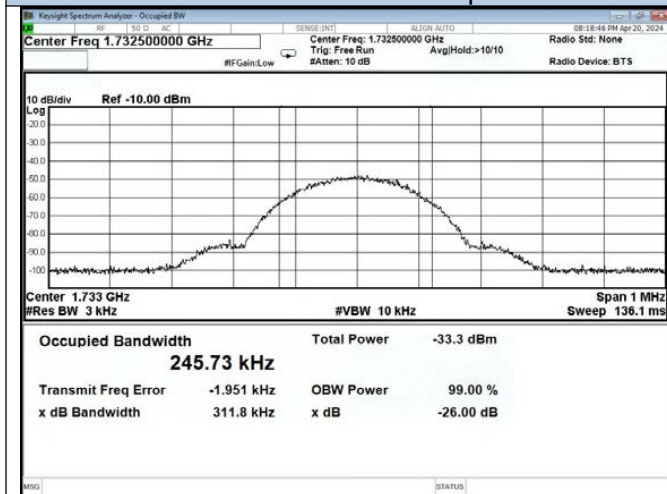
GSM-PCS Band UL Output



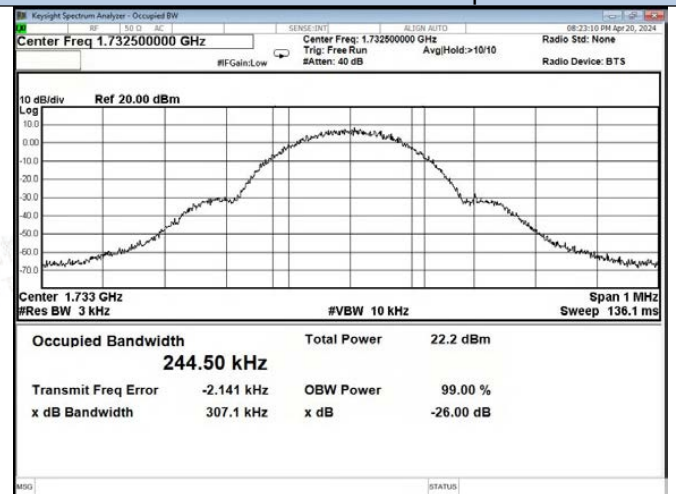
GSM-PCS Band DL Input



GSM-PCS Band DL Output



GSM-AWS Band UL Input



GSM-AWS Band UL Output

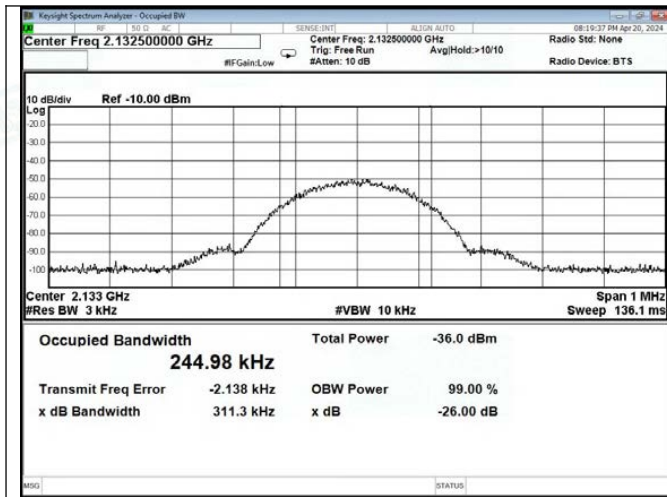


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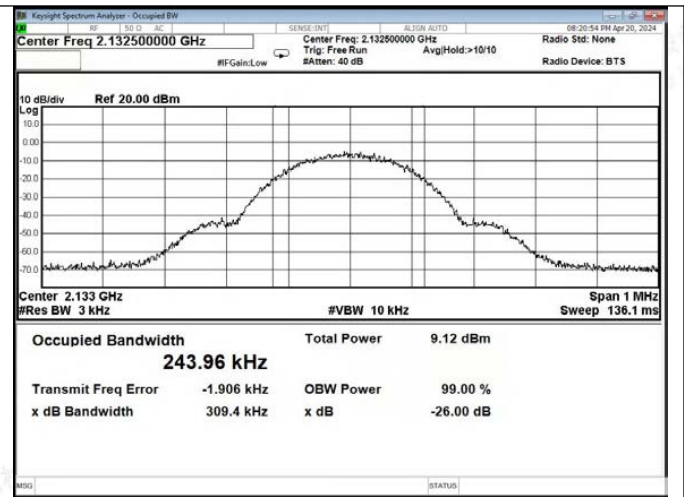
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GSM-AWS Band DL Input



GSM-AWS Band DL Output

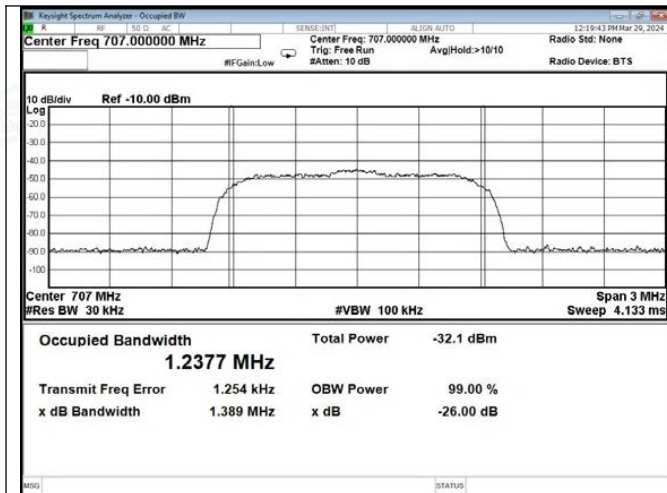


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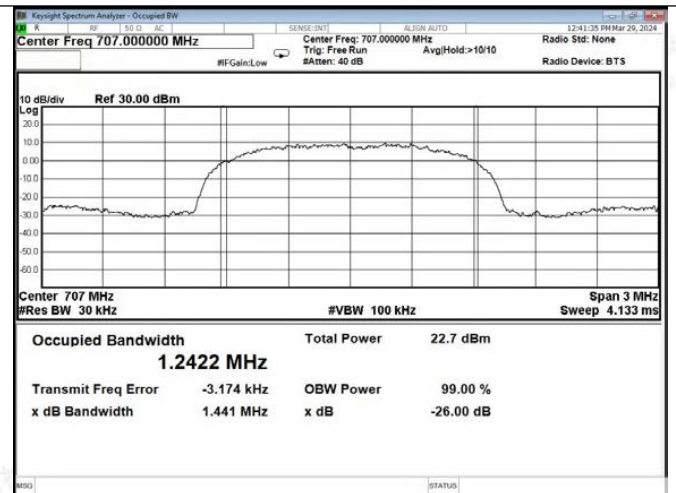
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

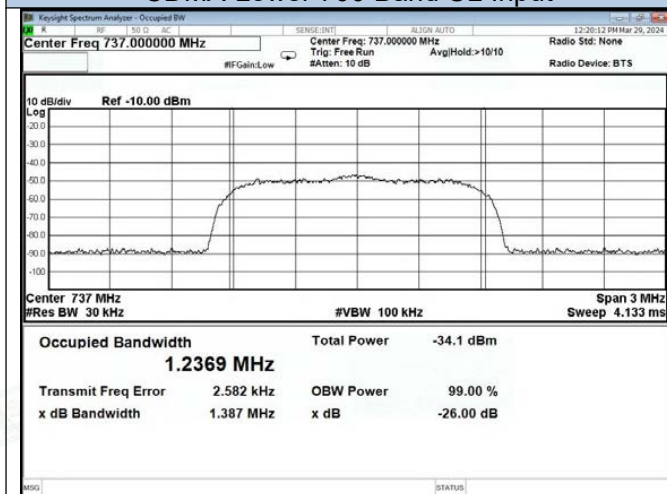
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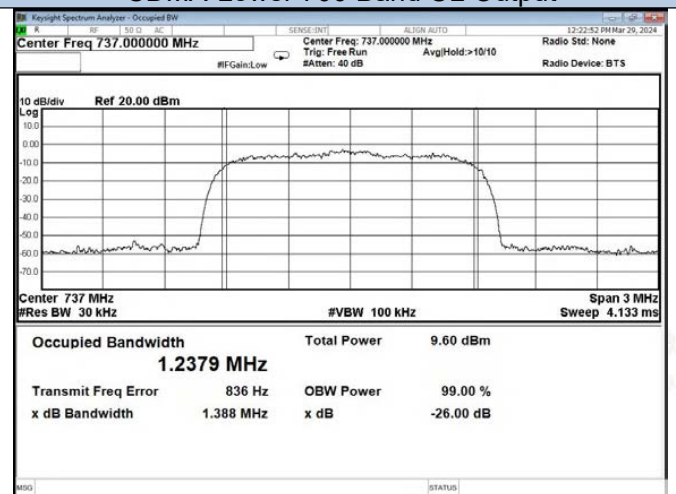
CDMA-Lower 700 Band UL Input



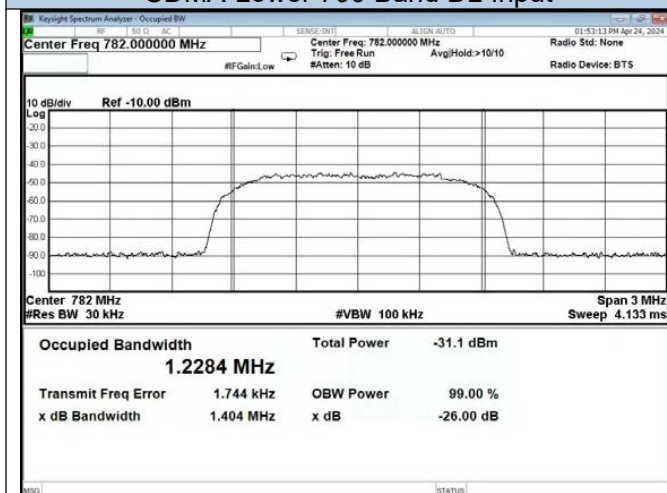
CDMA-Lower 700 Band UL Output



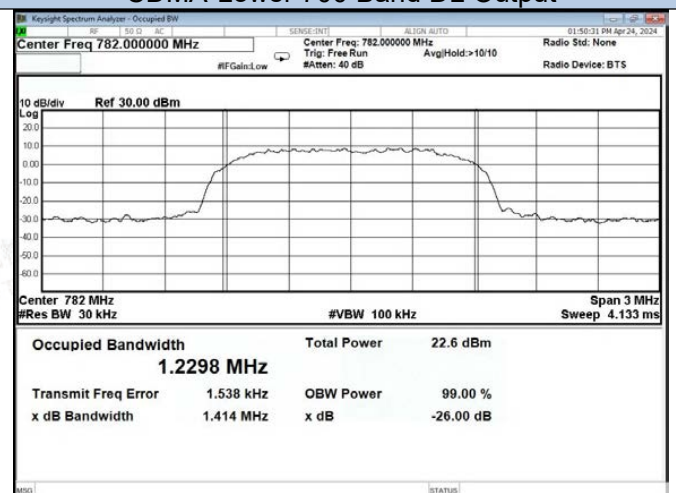
CDMA-Lower 700 Band DL Input



CDMA-Lower 700 Band DL Output



CDMA-Upper 700 Band UL Input



CDMA-Upper 700 Band UL Output

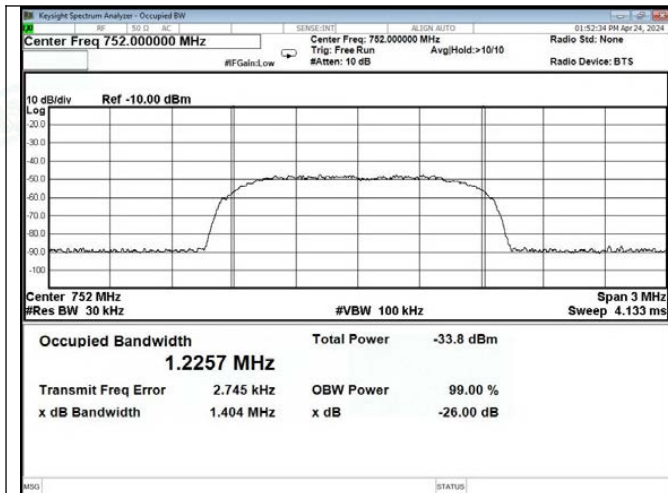


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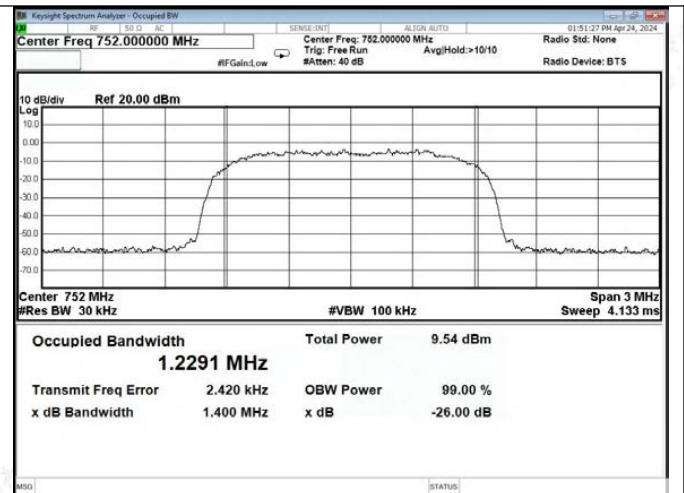
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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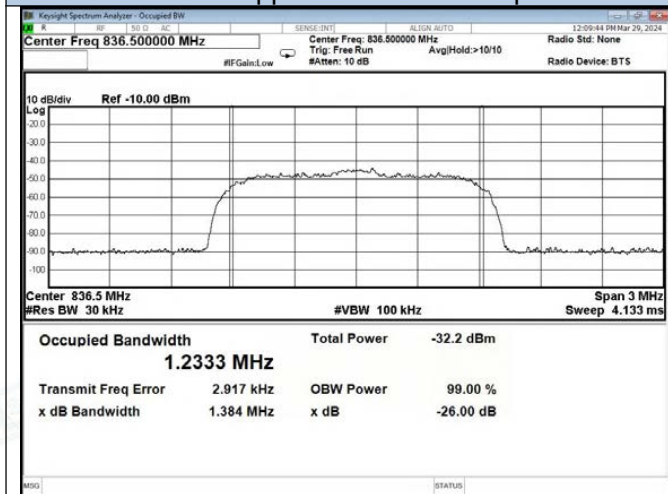
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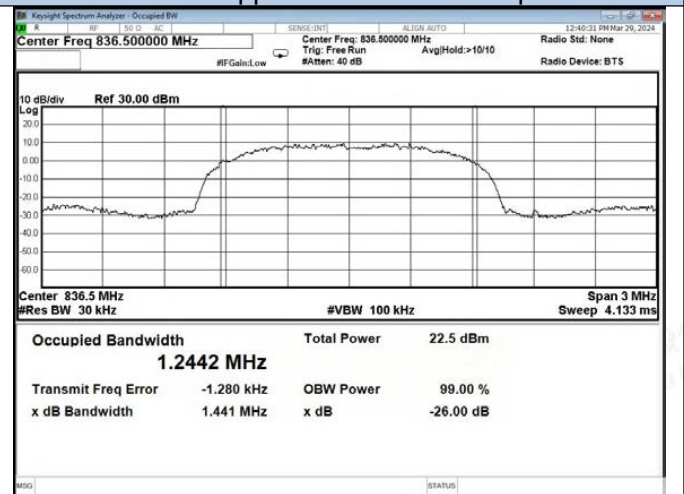
CDMA-Upper 700 Band DL Input



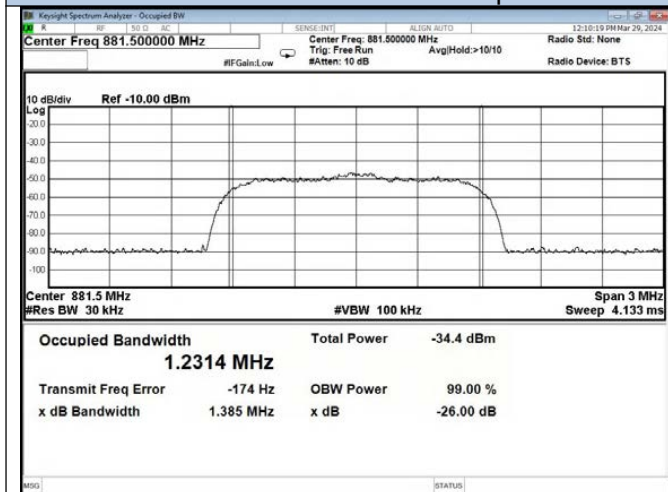
CDMA-Upper 700 Band DL Output



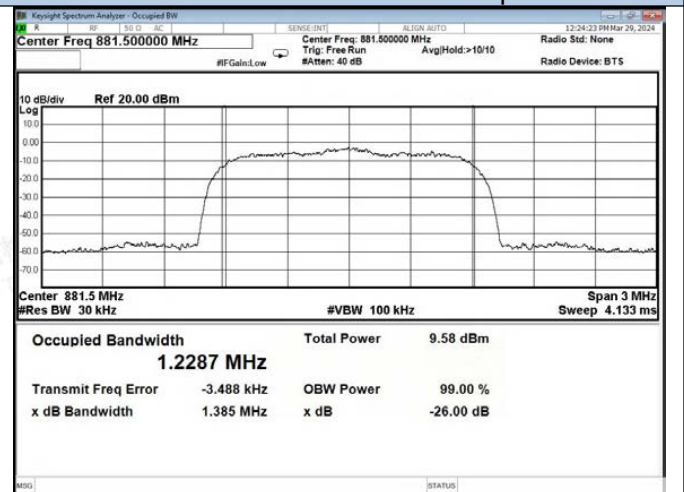
CDMA-Cellular Band UL Input



CDMA-Cellular Band UL Output



CDMA-Cellular Band DL Input



CDMA-Cellular Band DL Output

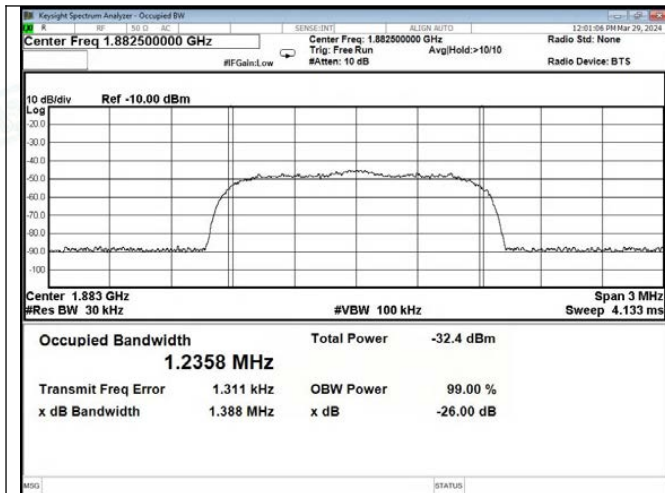


Shenzhen LCS Compliance Testing Laboratory Ltd.

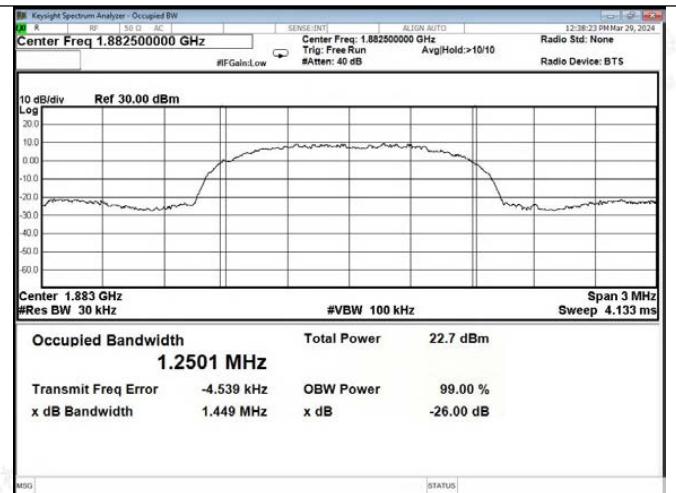
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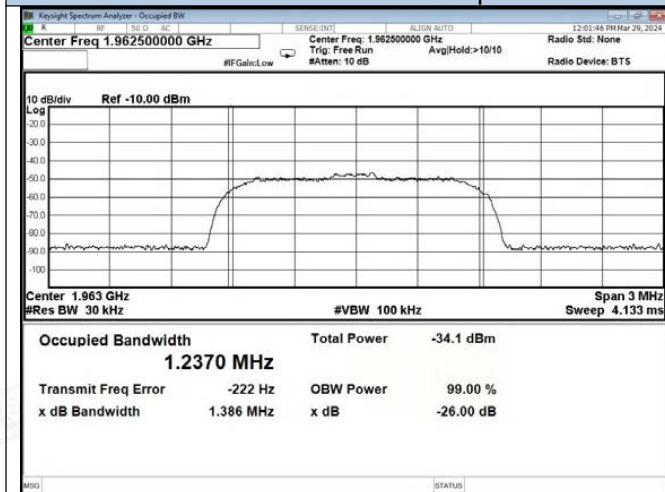
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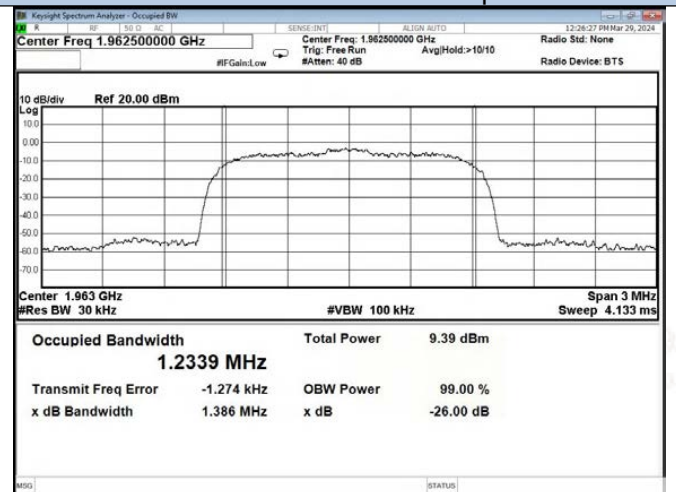
CDMA-PCS Band UL Input



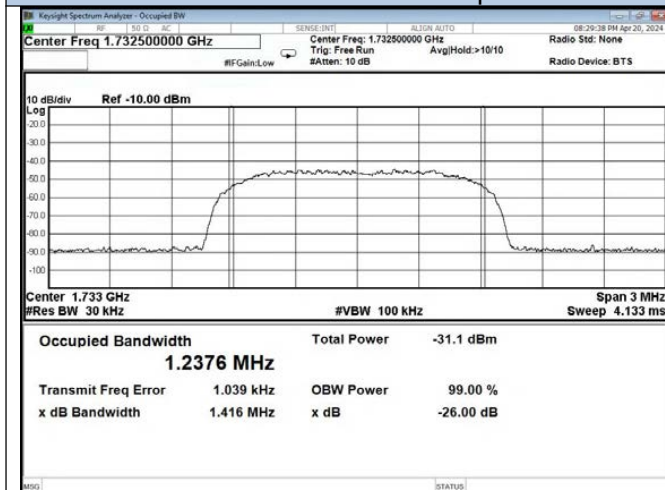
CDMA-PCS Band UL Output



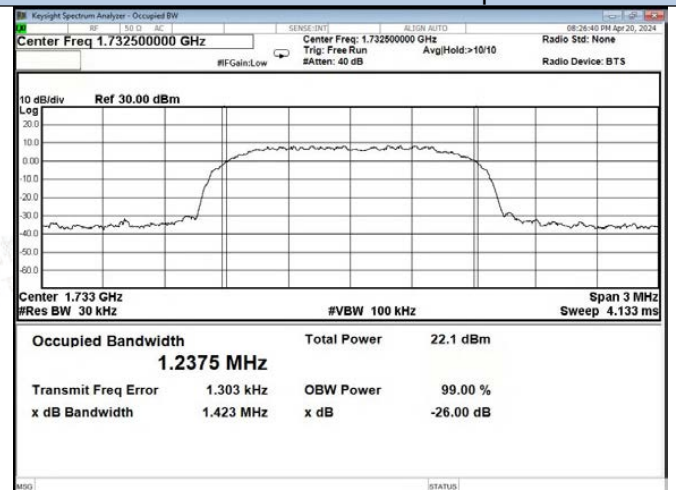
CDMA-PCS Band DL Input



CDMA-PCS Band DL Output



CDMA-AWS Band UL Input



CDMA-AWS Band UL Output

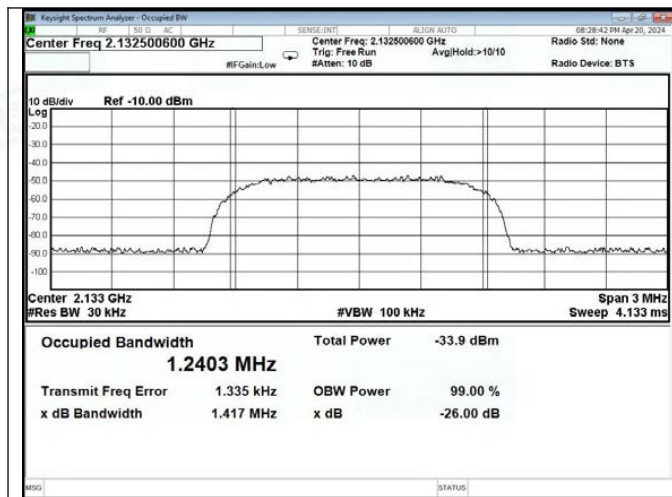


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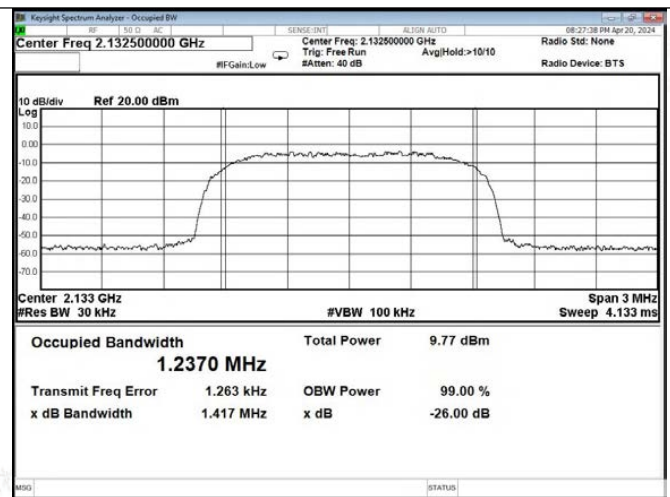
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CDMA-AWS Band DL Input



CDMA-AWS Band DL Output

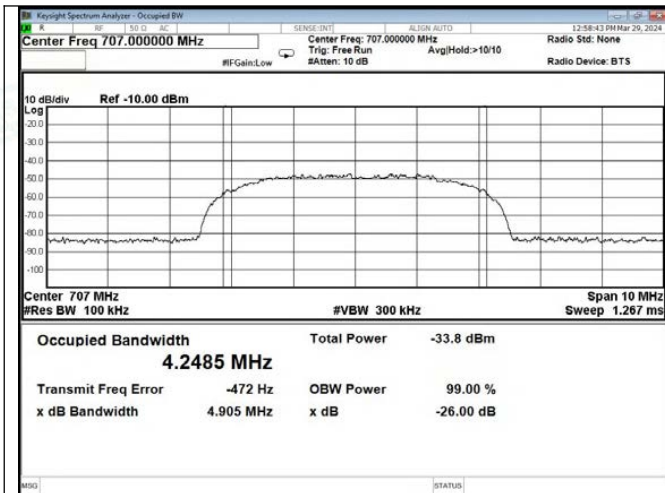


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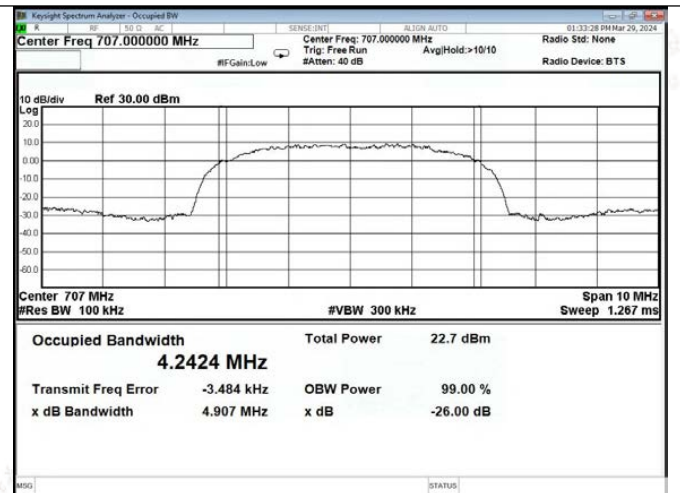
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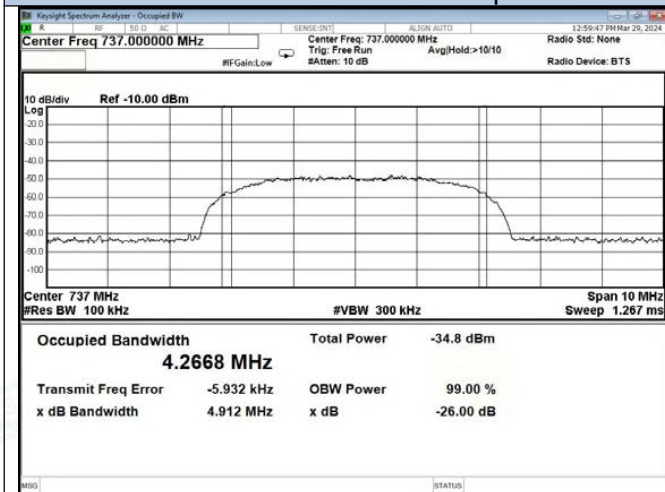
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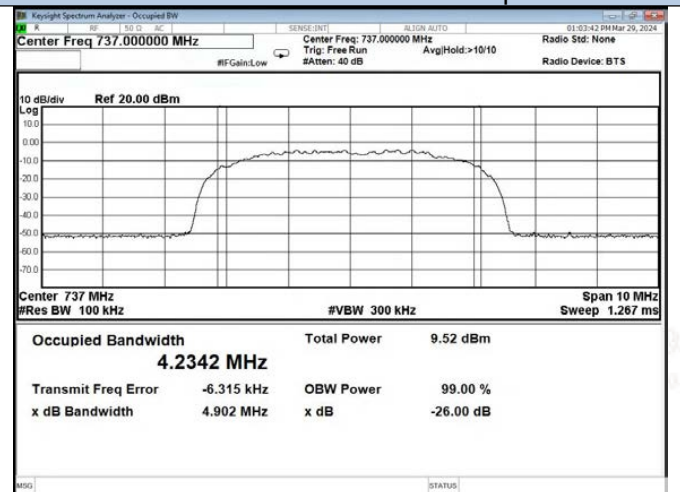
LTE-Lower 700 Band UL Input



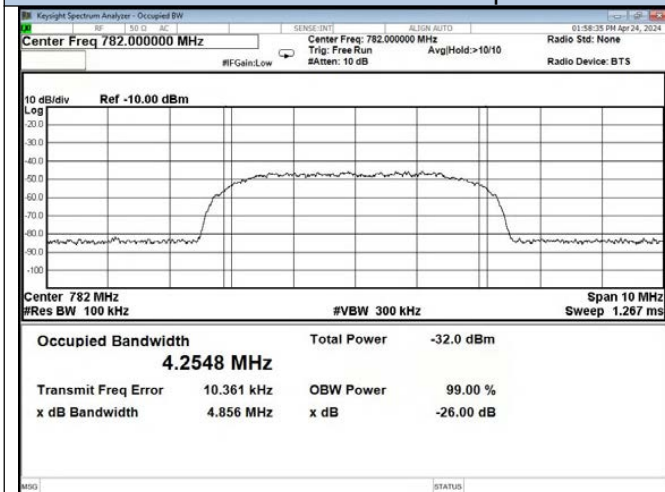
LTE-Lower 700 Band UL Output



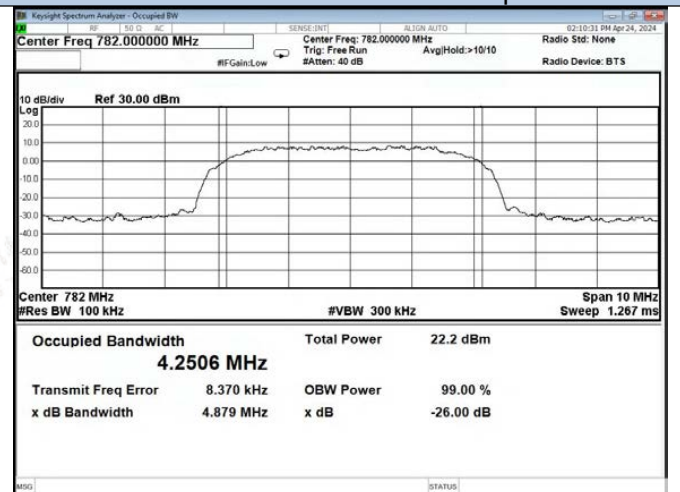
LTE-Lower 700 Band DL Input



LTE-Lower 700 Band DL Output



LTE-Upper 700 Band UL Input



LTE-Upper 700 Band UL Output

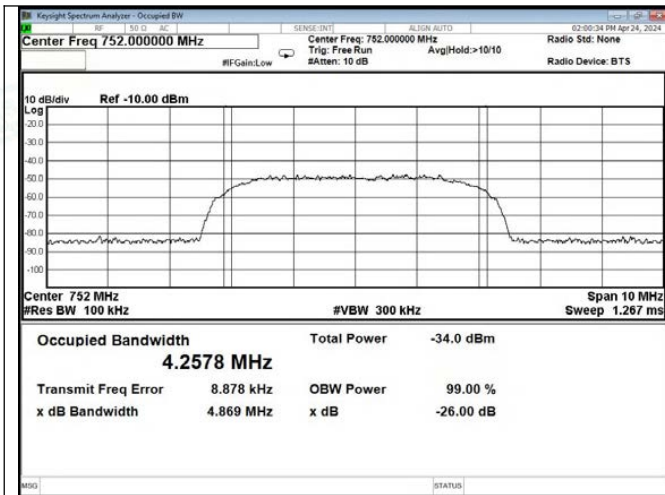


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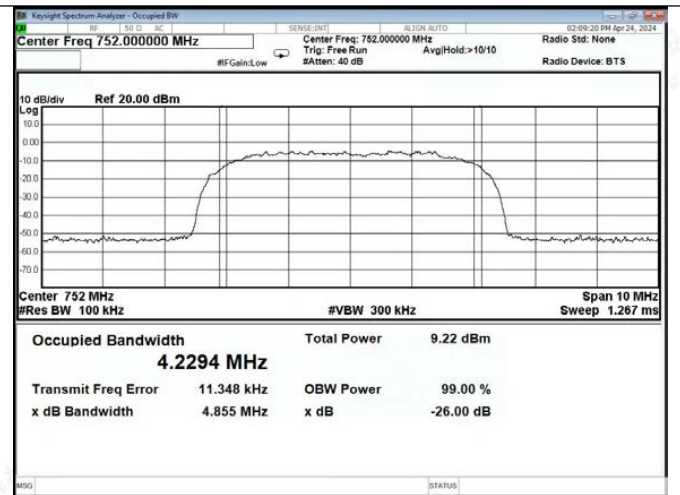
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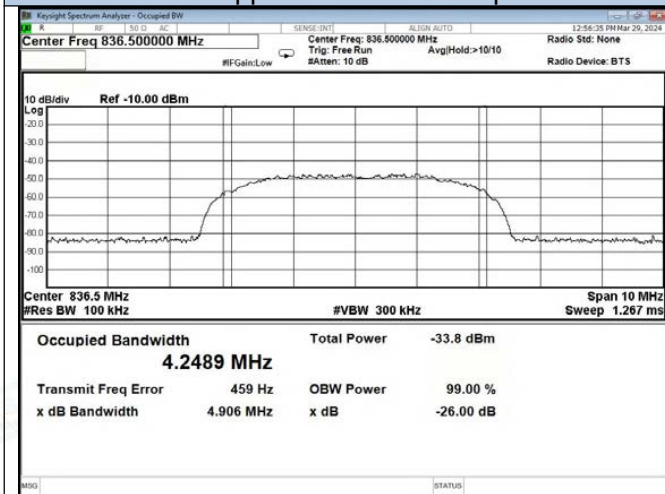
Scan code to check authenticity



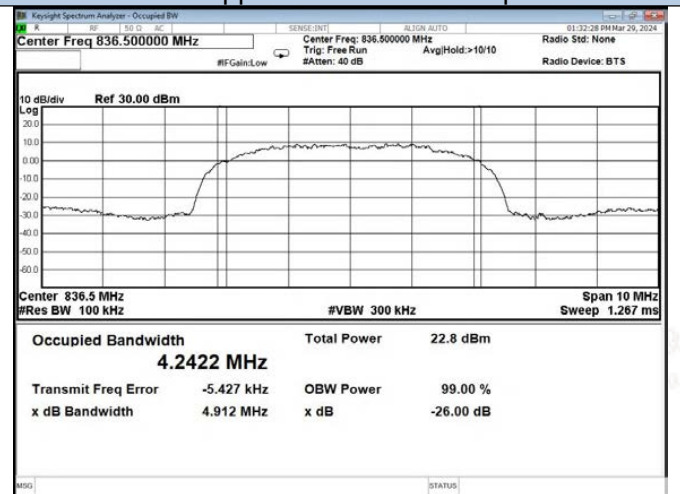
LTE-Upper 700 Band DL Input



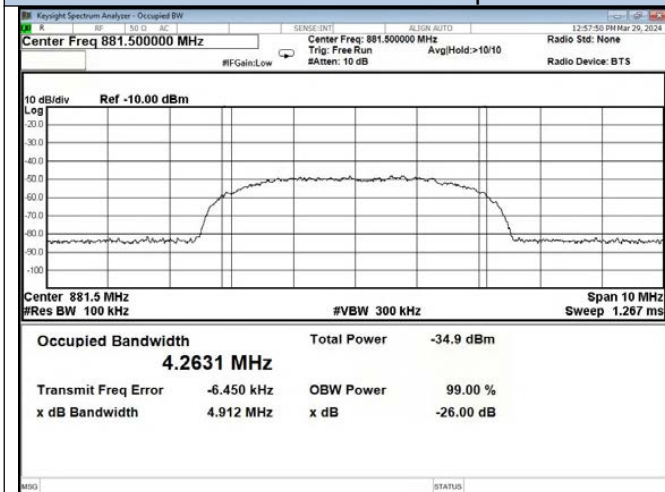
LTE-Upper 700 Band DL Output



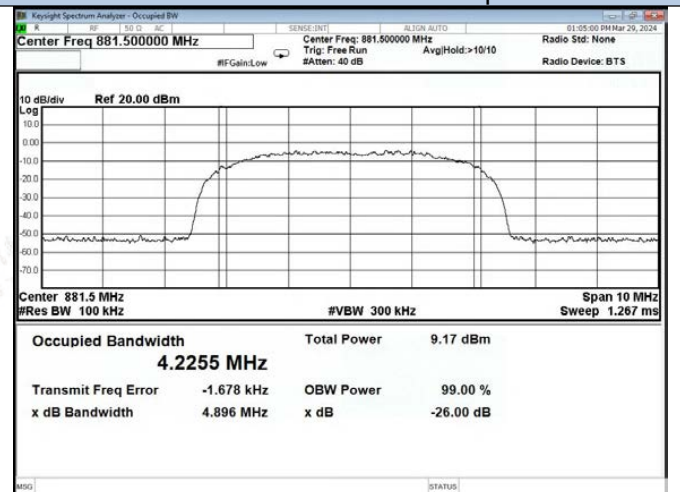
LTE-Cellular Band UL Input



LTE-Cellular Band UL Output



LTE-Cellular Band DL Input



LTE-Cellular Band DL Output

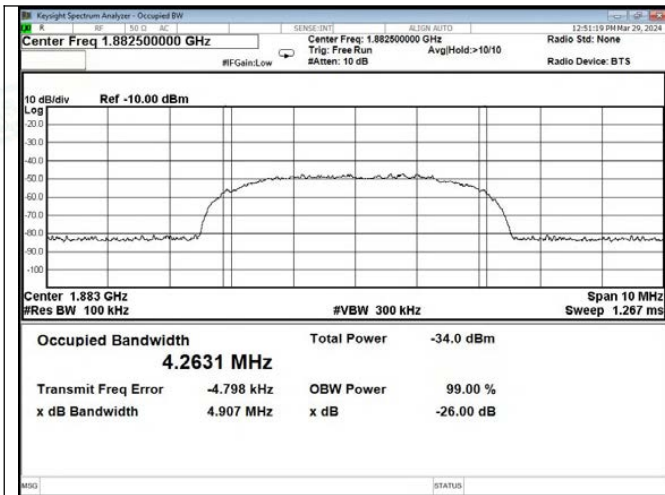


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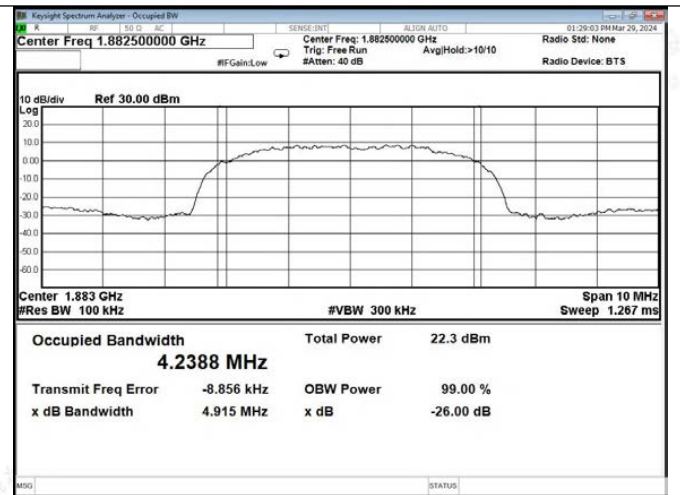
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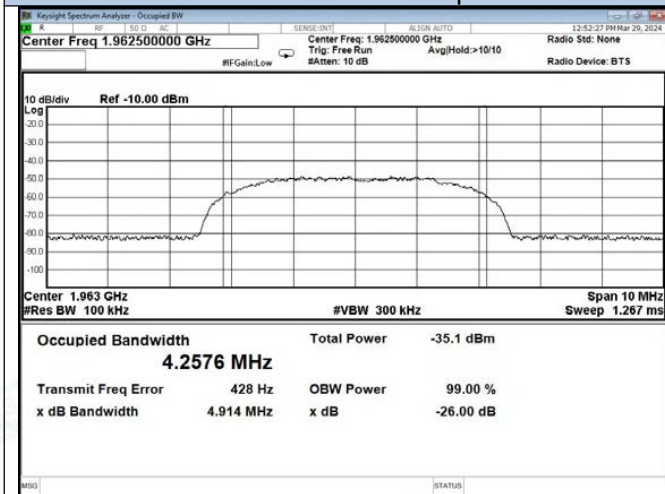
Scan code to check authenticity



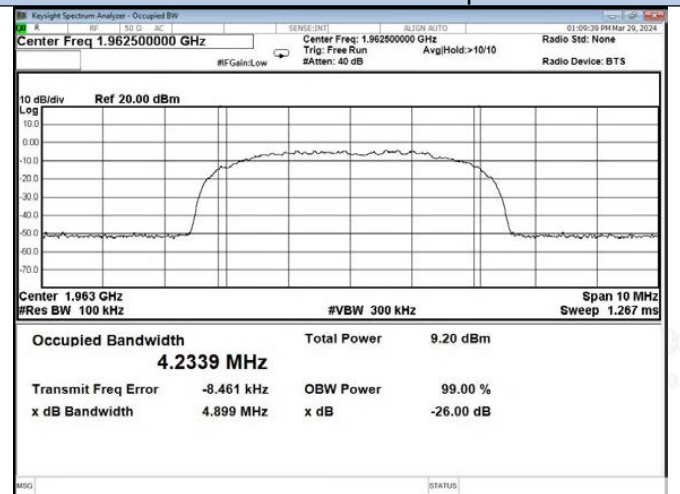
LTE-PCS Band UL Input



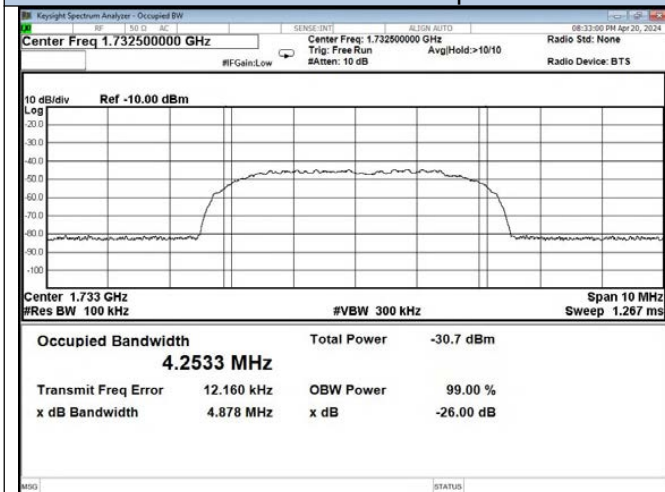
LTE-PCS Band UL Output



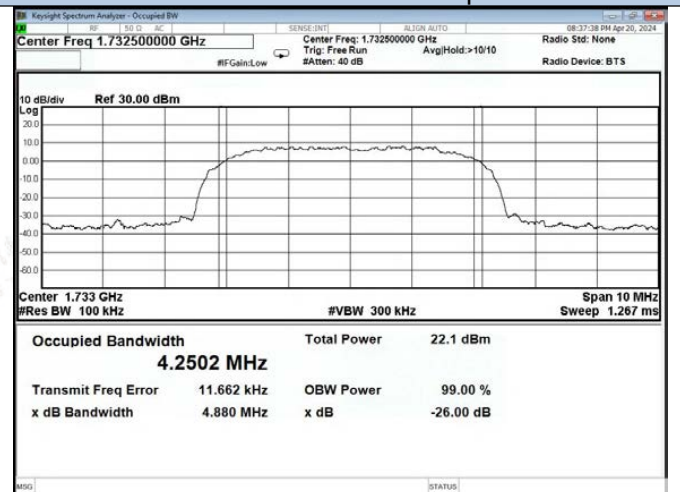
LTE-PCS Band DL Input



LTE-PCS Band DL Output



LTE-AWS Band UL Input



LTE-AWS Band UL Output

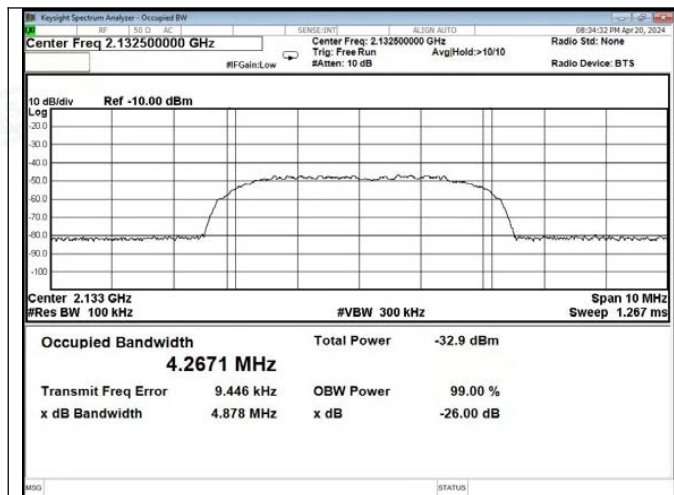


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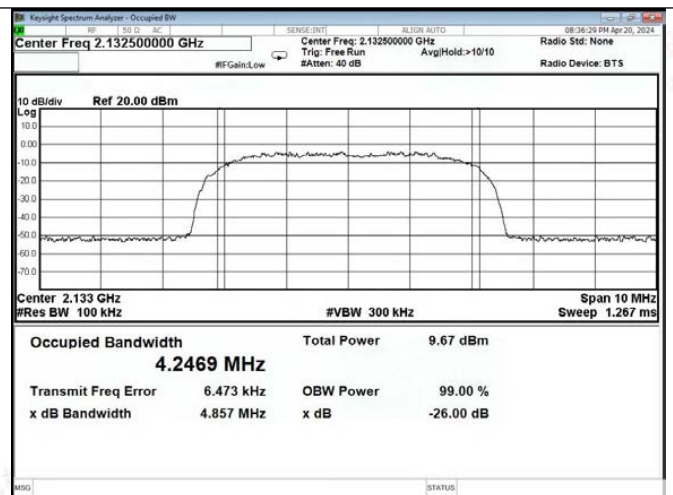
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LTE-AWS Band DL Input



LTE-AWS Band DL Output



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7. RADIATION SPURIOUS EMISSION

7.1 Applicable Standard

According to §2.1053 Measurements required: Field strength of spurious radiation.

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

7.2 Test Procedure

According to section 7.12 of KDB 935210 D03 Signal Booster Measurement v04r04:

This procedure is intended to satisfy the requirements specified in Section 2.1053. The applicable limits are those specified for mobile station emissions in the rule part appropriate to the band of operation (see Appendix A).

Separate compliance requirements are applicable for any digital device circuitry that controls additional functions or capabilities and that is not used only to enable operation of the transmitter in a booster device [i.e., Section 15.3(k) digital device definition]. Separate compliance requirements are applicable for any receiver components/functions that tune within 30 MHz to 960 MHz contained in booster devices [Section 15.101(b)].

- Place the EUT on an OATS or semi-anechoic chamber turntable 3 m from the receiving antenna.
- Connect the EUT to the test equipment as shown in Figure 11 beginning with the uplink output (donor) port.
- Set the signal generator to produce a CW signal with the frequency set to the center of the operational band under test, and the power level set at PIN as determined from measurement results per 7.2.
- Measure the radiated spurious emissions from the EUT from the lowest to the highest frequencies as specified in Section 2.1057. Maximize the radiated emissions by using the procedures described in ANSI C63.26.
- Capture the peak emissions plots using a peak detector with Max-Hold for inclusion in the test report. Tabular data is acceptable in lieu of spectrum analyzer plots.
- Repeat 7.12c) through 7.12e) for all uplink and downlink operational bands.

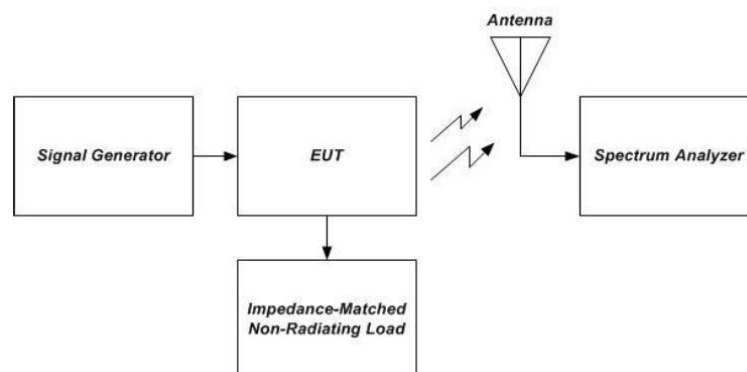


Figure 11 – Radiated spurious emissions test and instrumentation setup



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7.3 Test Data

Temperature	23.6℃	Humidity	52.3%
Test Engineer	Nick Peng	Test Mode	Transmitting

Lower 700 Band Uplink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1414	-39.95	3.72	3.00	9.04	-34.63	-13.00	-21.63	H
2121	-47.32	4.23	3.00	8.6	-42.95	-13.00	-29.95	H
1414	-34.82	3.72	3.00	9.04	-29.5	-13.00	-16.50	V
2121	-37.54	4.23	3.00	8.6	-33.17	-13.00	-20.17	V

Upper 700 Band Uplink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564	-58.69	4.99	3.00	11.12	-52.56	-40.00	-12.56	H
2346	-46.93	5.85	3.00	12.02	-40.76	-13.00	-27.76	H
1564	-59.57	4.99	3.00	11.12	-53.44	-40.00	-13.44	V
2346	-38.12	5.85	3.00	12.02	-31.95	-13.00	-18.95	V

Cellular 700 Band Uplink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673	-38.67	3.90	3.00	8.58	-33.99	-13.00	-20.99	H
2509.5	-47.69	4.32	3.00	6.80	-45.21	-13.00	-32.21	H
1673	-34.35	3.90	3.00	8.58	-29.67	-13.00	-16.67	V
2509.5	-37.32	4.32	3.00	6.80	-34.84	-13.00	-21.84	V



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PCS Band Uplink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765	-40.96	5.32	3.00	10.03	-36.25	-13.00	-23.25	H
5647.5	-45.79	6.19	3.00	11.41	-40.57	-13.00	-27.57	H
3765	-32.21	5.32	3.00	10.03	-27.50	-13.00	-14.50	V
5647.5	-33.95	6.19	3.00	11.41	-28.73	-13.00	-15.73	V

AWS Band Uplink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465	-44.13	4.63	3.00	9.84	-38.92	-13.00	-25.92	H
5197.5	-48.69	5.94	3.00	10.86	-43.77	-13.00	-30.77	H
3465	-35.94	4.63	3.00	9.84	-30.73	-13.00	-17.73	V
5197.5	-39.87	5.94	3.00	10.86	-34.95	-13.00	-21.95	V

Lower 700 Band Downlink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin	Polarization
1474	-35.21	4.78	3.00	8.91	-31.08	-13.00	-18.08	H
2211	-40.16	4.25	3.00	8.26	-36.15	-13.00	-23.15	H
1474	-35.55	4.78	3.00	8.91	-31.42	-13.00	-18.42	V
2211	-39.96	4.25	3.00	8.26	-35.95	-13.00	-22.95	V

Upper 700 Band Downlink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin	Polarization
1504	-42.06	4.88	3.00	10.03	-36.91	-13	-23.91	H
2256	-46.69	4.31	3.00	11.41	-39.59	-13	-26.59	H
1504	-41.91	4.88	3.00	10.03	-36.76	-13	-23.76	V
2256	-47.32	4.31	3.00	11.41	-40.22	-13	-27.22	V

Cellular Band Downlink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin	Polarization
1763	-41.87	4.11	3.00	10.03	-35.95	-13	-22.95	H
2644.5	-49.31	4.53	3.00	11.41	-42.43	-13	-29.43	H
1763	-39.65	4.11	3.00	10.03	-33.73	-13	-20.73	V
2644.5	-39.54	4.53	3.00	11.41	-32.66	-13	-19.66	V



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PCS Band Downlink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin	Polarization
3925	-42.73	5.68	3.00	10.03	-38.38	-13	-25.38	H
5887.5	-46.42	6.77	3.00	11.41	-41.78	-13	-28.78	H
3925	-32.77	5.68	3.00	10.03	-28.42	-13	-15.42	V
5887.5	-39.92	6.77	3.00	11.41	-35.28	-13	-22.28	V

AWS Band Downlink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin	Polarization
4265	-40.63	4.98	3.00	10.03	-35.58	-13	-22.58	H
6397.5	-49.04	6.95	3.00	11.41	-44.58	-13	-31.58	H
4265	-33.76	4.98	3.00	10.03	-28.71	-13	-15.71	V
6397.5	-41.32	6.95	3.00	11.41	-36.86	-13	-23.86	V

Remark:

1. We were not recorded other points as values lower than limits.
2. $\text{Peak EIRP(dBm)} = P_{\text{Mea}}(\text{dBm}) - P_{\text{cl}}(\text{dB}) + G_{\text{a}}(\text{dB})$.
3. $\text{Margin} = \text{Peak EIRP} - \text{Limit}$.





8. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

9. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

10. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----



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