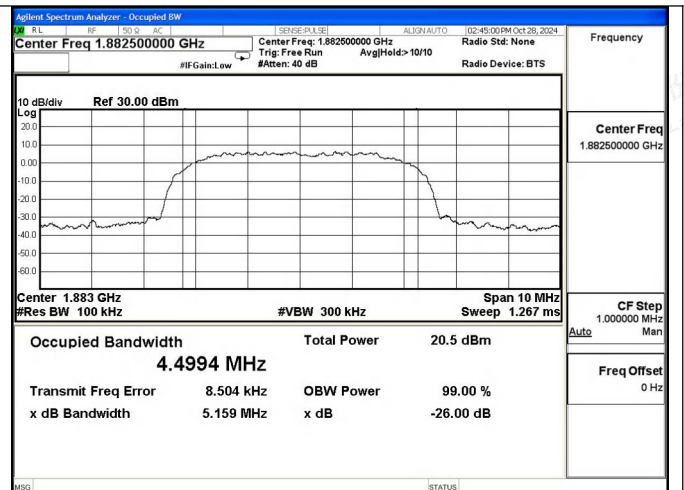
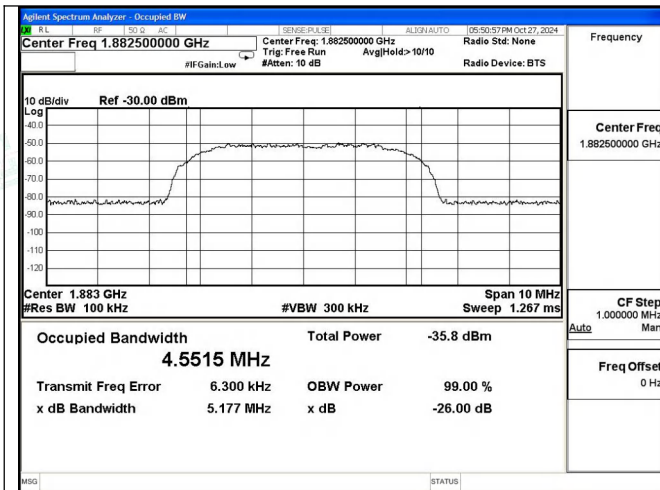
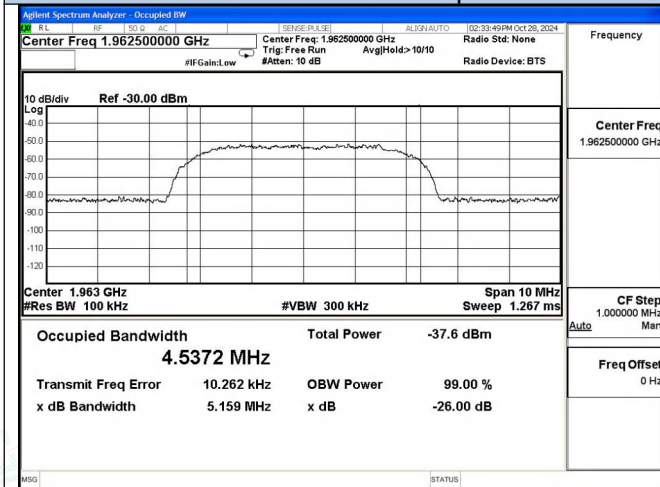
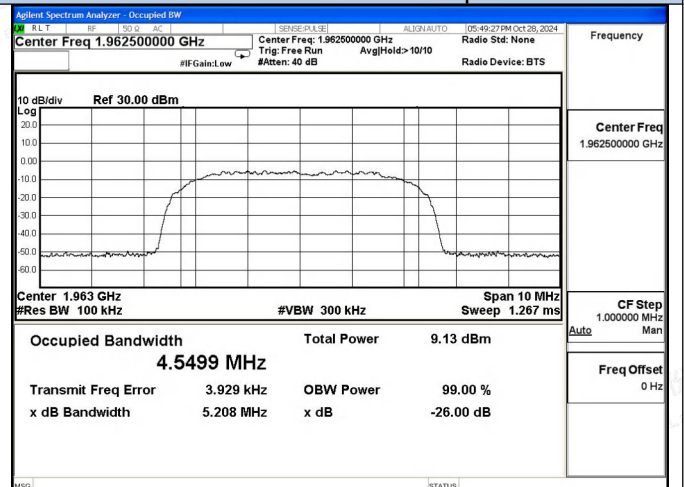




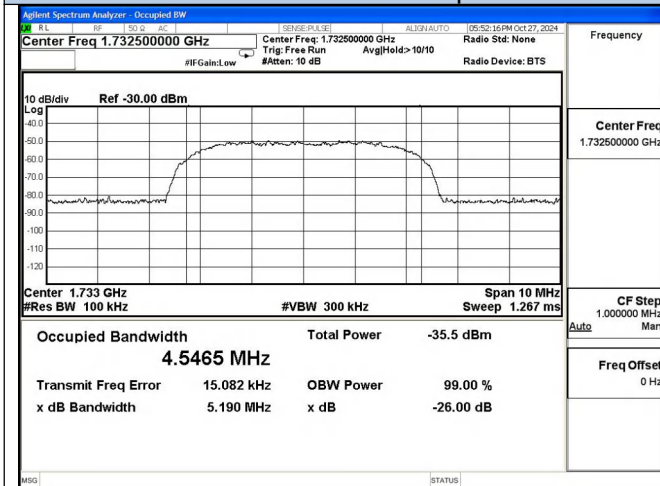
LTE-PCS Band UL Input



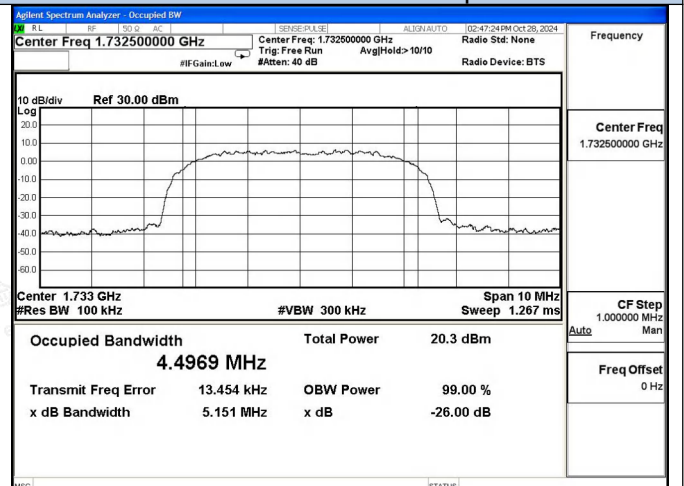
LTE-PCS Band UL Output



LTE-PCS Band DL Input



LTE-PCS Band DL Output



LTE-AWS Band UL Input

LTE-AWS Band UL Output

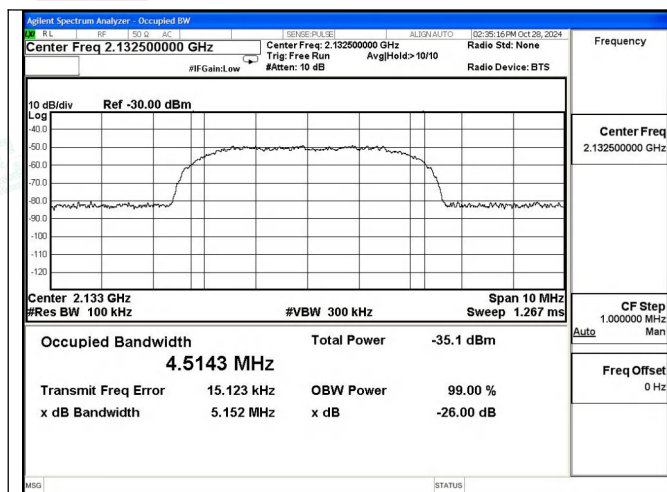


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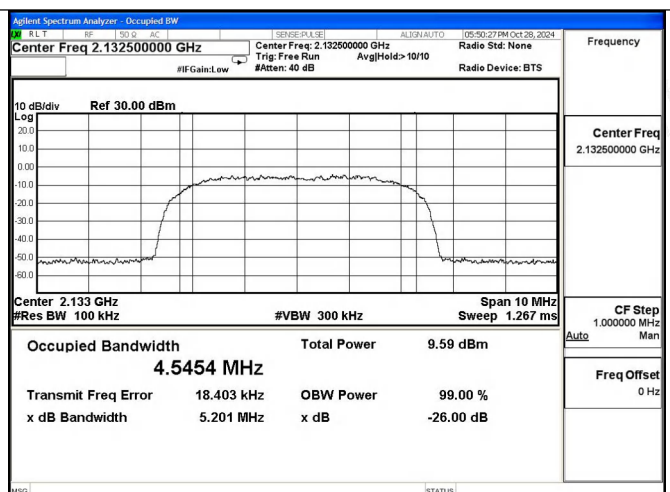
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LTE-AWS Band DL Input



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.

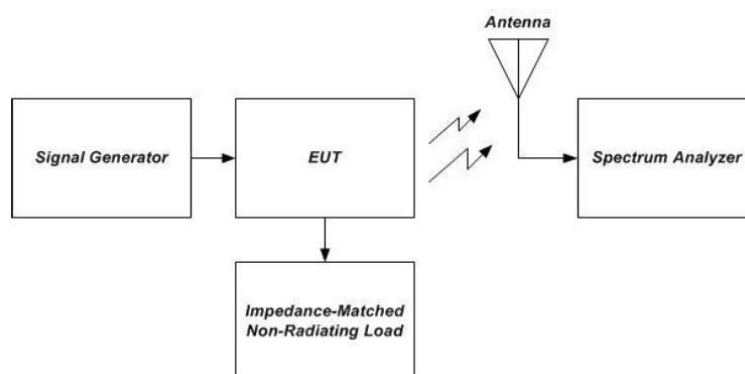


Figure 11 – Radiated spurious emissions test and instrumentation setup





7.3 Test Data

Temperature	23.6℃	Humidity	52.3%
Test Engineer	Paddi Chen	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
1414.00	-37.79	3.72	3.00	9.04	-32.47	-13.00	-19.47	H
2121.00	-45.74	4.23	3.00	8.60	-41.37	-13.00	-28.37	H
1414.00	-34.55	3.72	3.00	9.04	-29.23	-13.00	-16.23	V
2121.00	-37.37	4.23	3.00	8.60	-33.00	-13.00	-20.00	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
1563.00	-57.36	4.99	3.00	11.12	-51.23	-40.00	-11.23	H
2344.50	-47.95	5.85	3.00	12.02	-41.78	-13.00	-28.78	H
1563.00	-56.00	4.99	3.00	11.12	-49.87	-40.00	-9.87	V
2344.50	-39.18	5.85	3.00	12.02	-33.01	-13.00	-20.01	V

Cellular Band Uplink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.00	-37.22	3.90	3.00	8.58	-32.54	-13.00	-19.54	H
2509.50	-45.29	4.32	3.00	6.80	-42.81	-13.00	-29.81	H
1673.00	-33.66	3.90	3.00	8.58	-28.98	-13.00	-15.98	V
2509.50	-34.59	4.32	3.00	6.80	-32.11	-13.00	-19.11	V





PCS Band Uplink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-40.01	5.32	3.00	10.03	-35.30	-13.00	-22.30	H
5647.50	-45.46	6.19	3.00	11.41	-40.24	-13.00	-27.24	H
3765.00	-32.06	5.32	3.00	10.03	-27.35	-13.00	-14.35	V
5647.50	-33.51	6.19	3.00	11.41	-28.29	-13.00	-15.29	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
3465.00	-40.01	5.32	3.00	10.03	-35.30	-13.00	-22.30	H
5197.50	-45.46	6.19	3.00	11.41	-40.24	-13.00	-27.24	H
3465.00	-32.06	5.32	3.00	10.03	-27.35	-13.00	-14.35	V
5197.50	-33.51	6.19	3.00	11.41	-28.29	-13.00	-15.29	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
1474.00	-32.01	4.78	3.00	8.91	-27.88	-13.00	-14.88	H
2211.00	-37.44	4.25	3.00	8.26	-33.43	-13.00	-20.43	H
1474.00	-33.27	4.78	3.00	8.91	-29.14	-13.00	-16.14	V
2211.00	-40.30	4.25	3.00	8.26	-36.29	-13.00	-23.29	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
1503.00	-59.88	4.99	3.00	11.12	-53.75	-40.00	-13.75	H
2254.50	-44.98	5.85	3.00	12.02	-38.81	-13.00	-25.81	H
1503.00	-58.92	4.99	3.00	11.12	-52.79	-40.00	-12.79	V
2254.50	-39.41	5.85	3.00	12.02	-33.24	-13.00	-20.24	V

Cellular Band Downlink								
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin	Polarization
1763.00	-39.85	4.11	3.00	10.03	-33.93	-13.00	-20.93	H
2644.50	-45.83	4.53	3.00	11.41	-38.95	-13.00	-25.95	H
1763.00	-34.82	4.11	3.00	10.03	-28.90	-13.00	-15.90	V
2644.50	-36.91	4.53	3.00	11.41	-30.03	-13.00	-17.03	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
3925.00	-40.21	5.68	3.00	10.03	-35.86	-13.00	-22.86	H
5887.50	-46.81	6.77	3.00	11.41	-42.17	-13.00	-29.17	H
3925.00	-35.45	5.68	3.00	10.03	-31.10	-13.00	-18.10	V
5887.50	-39.71	6.77	3.00	11.41	-35.07	-13.00	-22.07	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
4265.00	-41.90	4.98	3.00	10.03	-36.85	-13.00	-23.85	H
6397.50	-45.55	6.95	3.00	11.41	-41.09	-13.00	-28.09	H
4265.00	-36.11	4.98	3.00	10.03	-31.06	-13.00	-18.06	V
6397.50	-39.07	6.95	3.00	11.41	-34.61	-13.00	-21.61	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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