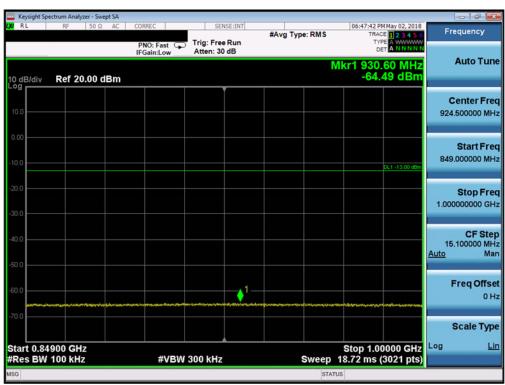


Cellular WCDMA Mode



Plot 7-46. Conducted Spurious Plot (Cellular WCDMA Mode - Low Channel)



Plot 7-47. Conducted Spurious Plot (Cellular WCDMA Mode - Low Channel)

FCC ID: ZNFQ710US	ENGINEERING LANGUAGES, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 40 of 107
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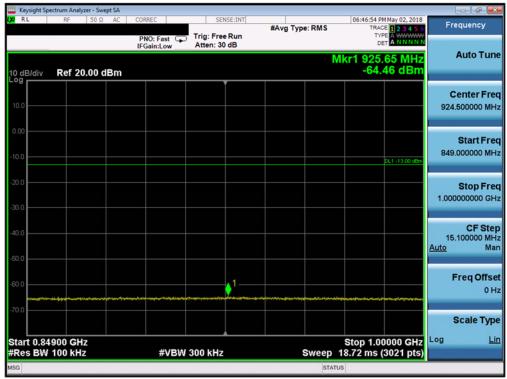
Plot 7-48. Conducted Spurious Plot (Cellular WCDMA Mode - Low Channel)



Plot 7-49. Conducted Spurious Plot (Cellular WCDMA Mode - Mid Channel)

FCC ID: ZNFQ710US	ENCIRE LABORATOR, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dago 41 of 107
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Plot 7-50. Conducted Spurious Plot (Cellular WCDMA Mode - Mid Channel)



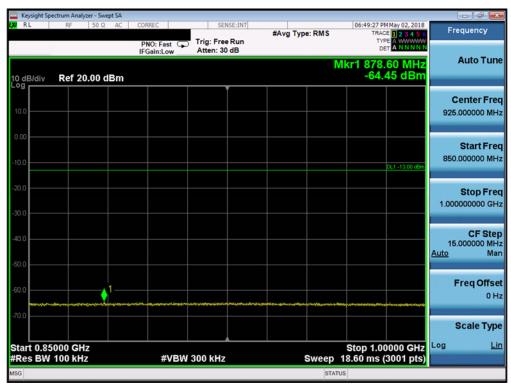
Plot 7-51. Conducted Spurious Plot (Cellular WCDMA Mode - Mid Channel)

FCC ID: ZNFQ710US	ENCINEERING LANDAGON, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-52. Conducted Spurious Plot (Cellular WCDMA Mode - High Channel)



Plot 7-53. Conducted Spurious Plot (Cellular WCDMA Mode - High Channel)

FCC ID: ZNFQ710US	PETEST VENEZIAND LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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Plot 7-54. Conducted Spurious Plot (Cellular WCDMA Mode - High Channel)

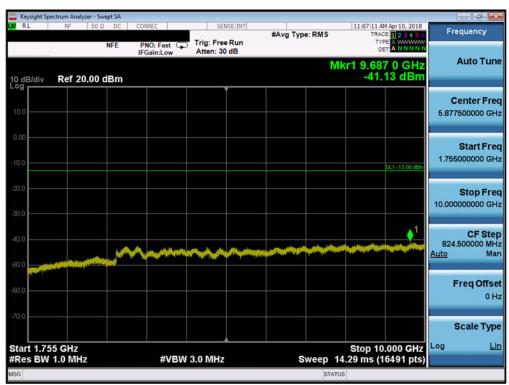
FCC ID: ZNFQ710US	ENGINEERING LAFORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 44 of 107
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AWS WCDMA Mode



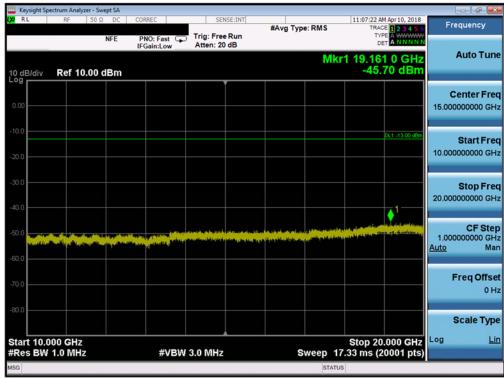
Plot 7-55. Conducted Spurious Plot (AWS WCDMA Mode - Low Channel)



Plot 7-56. Conducted Spurious Plot (AWS WCDMA Mode - Low Channel)

FCC ID: ZNFQ710US	POTEST CHURCHEN LANGATON. INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogg 45 of 107	
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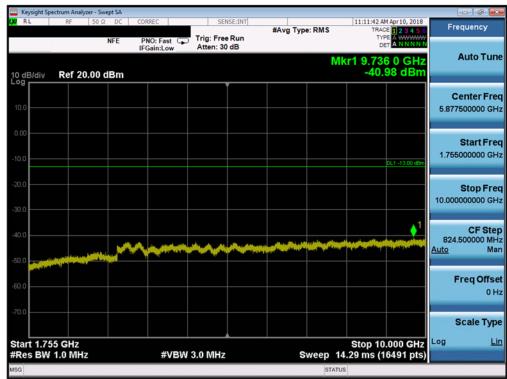
Plot 7-57. Conducted Spurious Plot (AWS WCDMA Mode - Low Channel)



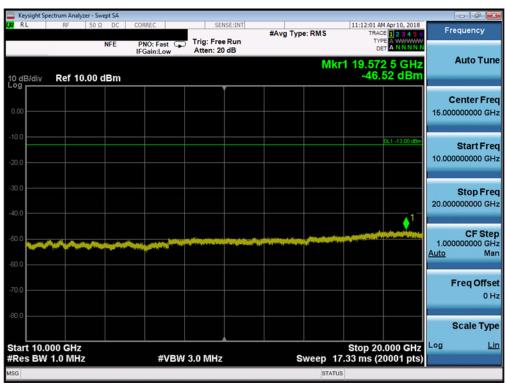
Plot 7-58. Conducted Spurious Plot (AWS WCDMA Mode - Mid Channel)

FCC ID: ZNFQ710US	POTEST (NEINITHE LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-59. Conducted Spurious Plot (AWS WCDMA Mode - Mid Channel)



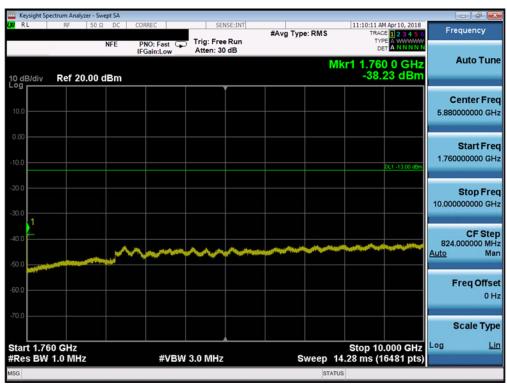
Plot 7-60. Conducted Spurious Plot (AWS WCDMA Mode - Mid Channel)

FCC ID: ZNFQ710US	PETEST VENEZIAND LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 47 of 107
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Plot 7-61. Conducted Spurious Plot (AWS WCDMA Mode - High Channel)



Plot 7-62. Conducted Spurious Plot (AWS WCDMA Mode - High Channel)

FCC ID: ZNFQ710US	ENGINEERING LANGUAGES, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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Plot 7-63. Conducted Spurious Plot (AWS WCDMA Mode - High Channel)

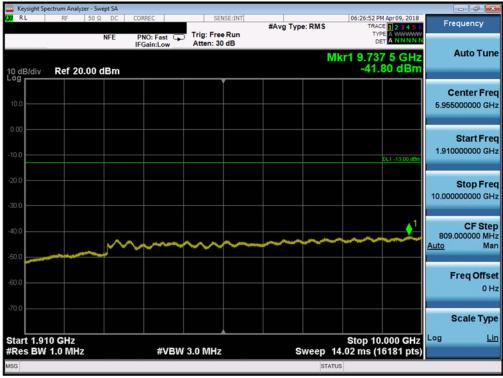
FCC ID: ZNFQ710US	(NEINELAND LANDATON), INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 49 of 107
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PCS WCDMA Mode



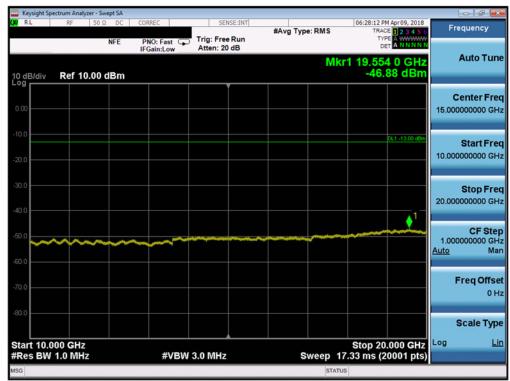
Plot 7-64. Conducted Spurious Plot (PCS WCDMA Mode - Low Channel)



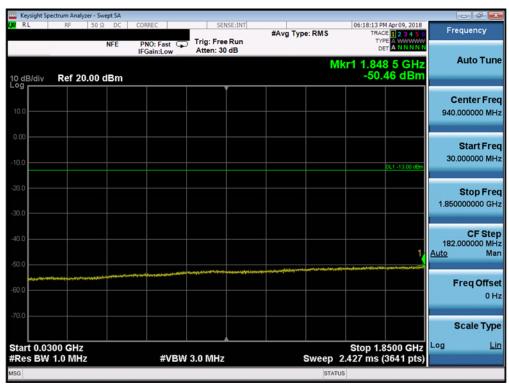
Plot 7-65. Conducted Spurious Plot (PCS WCDMA Mode - Low Channel)

FCC ID: ZNFQ710US	ENGINEERING LANGUAGES, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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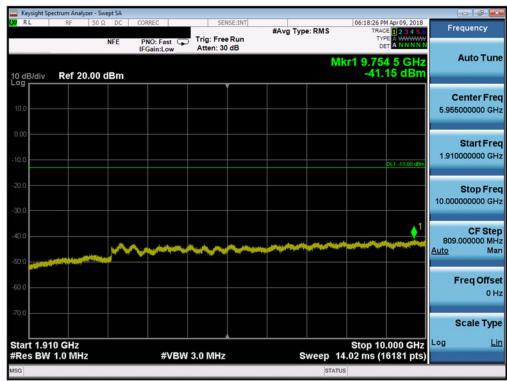
Plot 7-66. Conducted Spurious Plot (PCS WCDMA Mode - Low Channel)



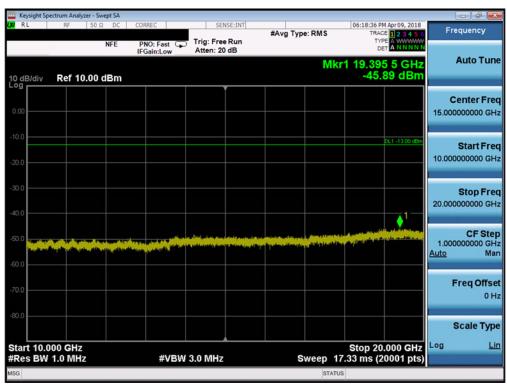
Plot 7-67. Conducted Spurious Plot (PCS WCDMA Mode - Mid Channel)

FCC ID: ZNFQ710US	CHEINTERING LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dago 51 of 107
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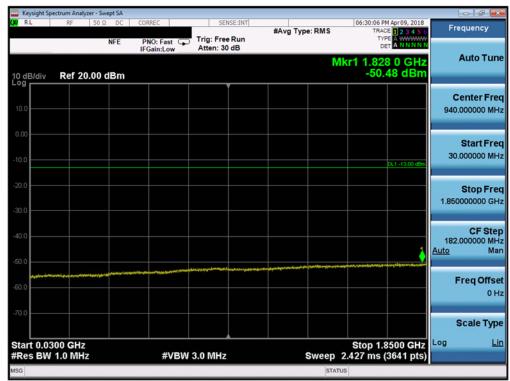
Plot 7-68. Conducted Spurious Plot (PCS WCDMA Mode - Mid Channel)



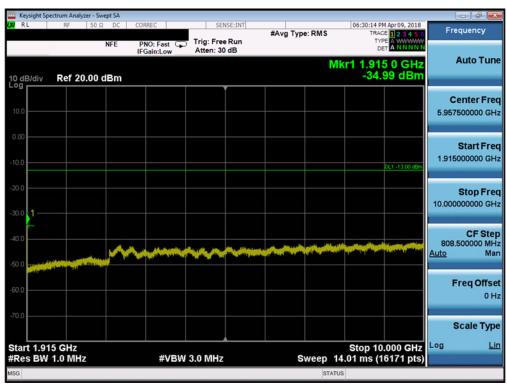
Plot 7-69. Conducted Spurious Plot (PCS WCDMA Mode - Mid Channel)

FCC ID: ZNFQ710US	CHUINTEING LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 52 of 107
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Plot 7-70. Conducted Spurious Plot (PCS WCDMA Mode - High Channel)



Plot 7-71. Conducted Spurious Plot (PCS WCDMA Mode - High Channel)

FCC ID: ZNFQ710US	PETEST VENEZIAND LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 53 of 107
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Plot 7-72. Conducted Spurious Plot (PCS WCDMA Mode - High Channel)

FCC ID: ZNFQ710US	(NEINELAND LANDATON), INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + $log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. $VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

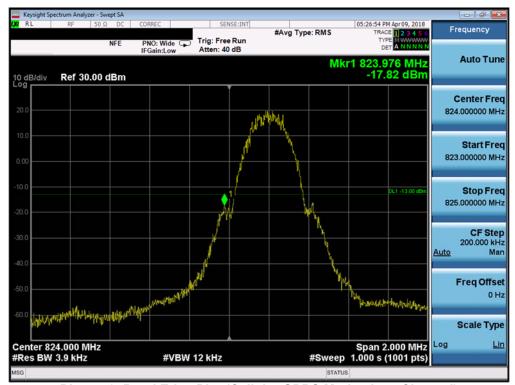
Test Notes

Per 22.917(b), 24.238(b), 27.53(h)(3), and RSS-132(5.5), RSS-133(6.5), RSS-139(6.5), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

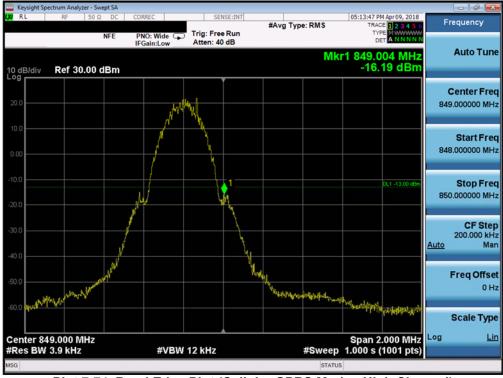
FCC ID: ZNFQ710US	CHEINTELETING LANDSATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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Cellular GPRS Mode



Plot 7-73. Band Edge Plot (Cellular GPRS Mode - Low Channel)

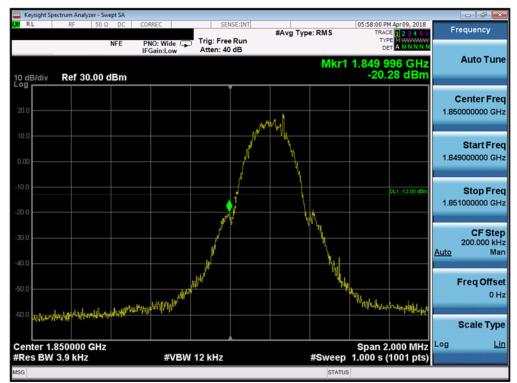


Plot 7-74. Band Edge Plot (Cellular GPRS Mode - High Channel)

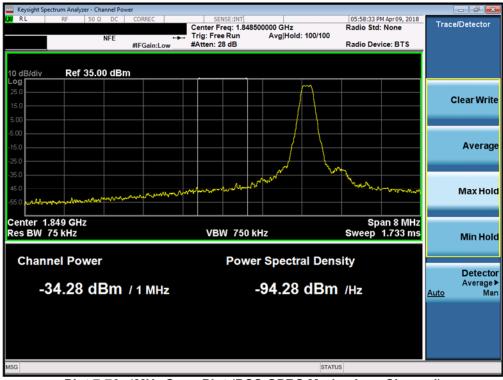
FCC ID: ZNFQ710US	ENGINEERING LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg F6 of 107
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PCS GPRS Mode



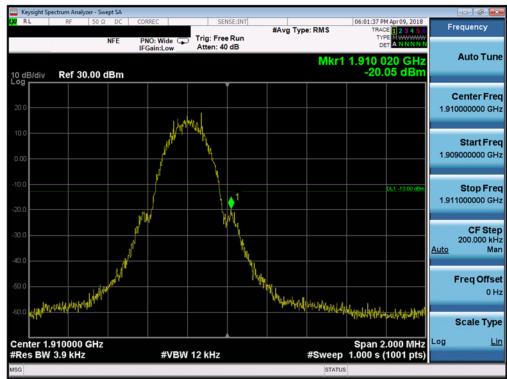
Plot 7-75. Band Edge Plot (PCS GPRS Mode - Low Channel)



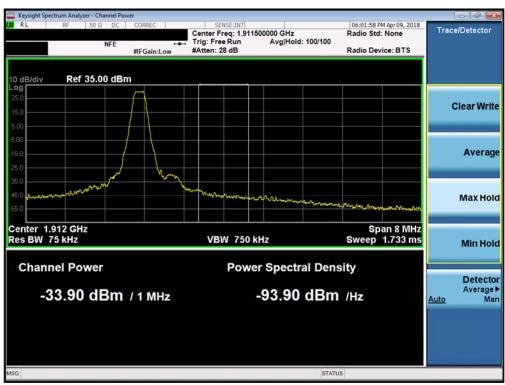
Plot 7-76. 4MHz Span Plot (PCS GPRS Mode - Low Channel)

FCC ID: ZNFQ710US	ENGINEERING LANGUAGES, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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Plot 7-77. Band Edge Plot (PCS GPRS Mode - High Channel)

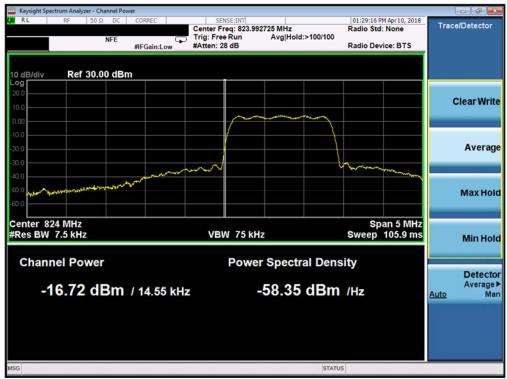


Plot 7-78. 4MHz Span Plot (PCS GPRS Mode - High Channel)

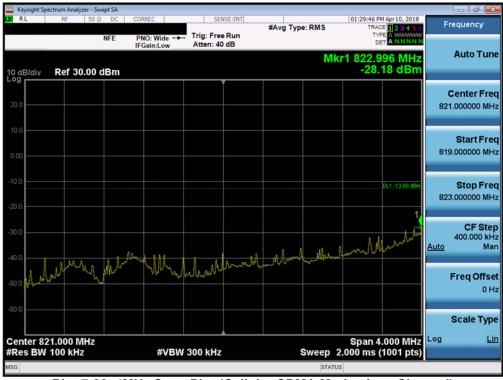
FCC ID: ZNFQ710US	ENGINEERING LANGUAGES, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 50 of 107
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Cellular CDMA Mode



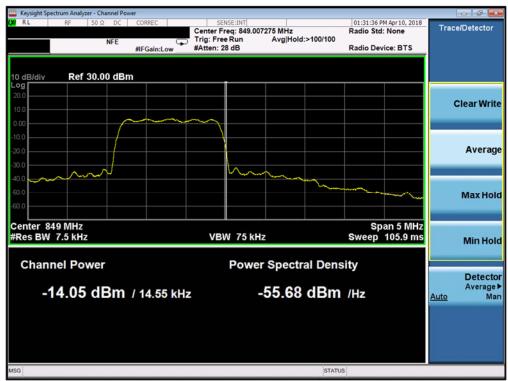
Plot 7-79. Band Edge Plot (Cellular CDMA Mode - Low Channel)



Plot 7-80. 4MHz Span Plot (Cellular CDMA Mode - Low Channel)

FCC ID: ZNFQ710US	ENGINEERING LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-81. Band Edge Plot (Cellular CDMA Mode - High Channel)



Plot 7-82. 4MHz Span Plot (Cellular CDMA Mode - High Channel)

FCC ID: ZNFQ710US	CHEINTERING LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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PCS CDMA Mode



Plot 7-83. Band Edge Plot (PCS CDMA Mode - Low Channel)



Plot 7-84. 4MHz Span Plot (PCS CDMA Mode - Low Channel)

FCC ID: ZNFQ710US	ENGINEERING LANGUAGES, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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Plot 7-85. Band Edge Plot (PCS CDMA Mode - High Channel)



Plot 7-86. 4MHz Span Plot (PCS CDMA Mode - High Channel)

FCC ID: ZNFQ710US	ENCINEERING LANDAGON, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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Cellular WCDMA Mode



Plot 7-87. Band Edge Plot (Cellular WCDMA Mode - Low Channel)



Plot 7-88. Band Edge Plot (Cellular WCDMA Mode - High Channel)

FCC ID: ZNFQ710US	ENGINEERING LANGUAGES, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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AWS WCDMA Mode



Plot 7-89. Band Edge Plot (AWS WCDMA Mode - Low Channel)



Plot 7-90. 4MHz Span Plot (AWS WCDMA Mode - Low Channel)

FCC ID: ZNFQ710US	ENCINEETING LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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Plot 7-91. Band Edge Plot (AWS WCDMA Mode - High Channel)



Plot 7-92. 4MHz Span Plot (AWS WCDMA Mode - High Channel)

FCC ID: ZNFQ710US	CHEINTERING LABORATORS, INC.	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 65 of 107
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