Unwanted Emissions for 4 Bands Operating PLMRS and PSRS Service (Conducted)

Governing Doc	FCC Part 2 2.1046(a) FCC Part 90.210		Room Temperature (°C)			30.5			
Test Procedure	ANSI/TIA-603- E-2016; FCC KDB 935210 D05 Indus Booster Basic Meas v01r02: October 27, 2017 Section 4.7.3	5	Relative	Humidity (%)			34.9		
Test Location	Burnaby		Barometric Pressure (kPa)			101.3			
Test Engineer	Jeremy Lee		Date			Jun 20, 2018			
EUT Voltage	DC DC		□ 120VAC @ 60Hz						
Test Equipment Used	Manufacturer	ľ	Model	Serial Number	Ca	alibration	Calibration due		
Signal Generator	Keysight	Ν	I5172B	MY53050270	0	8/04/17	08/04/18		
Spectrum Analyzer	Keysight	Ν	9010A	MY50520285	0	8/07/17	08/07/18		
Frequency Range:	⊠ 9 kHz – 9.4 GHz								
Detector:	⊠ Peak(for Formal)								
RBW/VBW:	 ☑ 1/10kHz for 9kHz – 150kHz; ☑ 10/100kHz for 150kHz – 30 MHz; ☑ 100/1000kHz for 30MHz – 1GHz; ☑ 1/50MHz for 1GHz – 9.4GHz 								
Type of Facility:	⊠ Testbench								
Distance:	⊠ Direct Connection								
Arrangement of EUT:	\Box Table-top only \Box Floor-standing only \boxtimes Rack Mounted								
Band800, Band 700 and Band 450: No emission is higher than the -13 dBm emission limit.									

Band 900: No emission is higher than the -20 dBm emission limit.

Compliant ⊠

Non-Compliant

Not Applicable

Test setup



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Results



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Unwanted Emissions for 700 Band Operating Broadband Signal (Conducted)

Governing Doc	FCC Part 2 2.1046(a) FCC Part 90.543 (e)	Room T	emperature (°C)		30.5					
Test Procedure	ANSI/TIA-603- E-2016; FCC KDB 935210 D05 Indus Booster Basic Meas v01r02: October 27, 2017 Section 3.6	s Relative	e Humidity (%)		34.9					
Test Location	Burnaby	Barome	tric Pressure (kP	a)	101.3					
Test Engineer	Jeremy Lee	Date	Date		Jun 20, 2018					
EUT Voltage	⊠ DC	□ 12	□ 120VAC @ 60Hz							
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration	Calibration due					
Signal Generator	Keysight	N5172B	MY53050270	08/04/17	08/04/18					
Spectrum Analyzer	Keysight	N9010A	MY50520285	08/07/17	08/07/18					
Frequency Range:	⊠ 9 kHz – 9.4 GHz									
Detector:	⊠ Peak(for Formal)									
RBW/VBW:	 ☑ 1/10kHz for 9kHz – 150kHz; ☑ 10/100kHz for 150kHz – 30 MHz; ☑ 100/1000kHz for 30MHz – 1GHz; ☑ 1/50MHz for 1GHz – 9.4GHz 									
Type of Facility:	⊠ Testbench									
Distance:	☑ Direct Connection									
Arrangement of EUT:	□ Table-top only □ Floor-standing only ⊠ Rack Mounted									
Band 700: No emission is higher than the -13 dBm emission limit. For operations in the 758-768 MHz and 788-798 MHz bands, the power emission on all frequencies between 769-775 MHz and 799-805 MHz, the emission is below the transmitter power (P=3.16W of DUT)										

between 769-775 MHz and 799-805 MHz, the emission is below the transmitter power (P=3.16W of DUT) by a factor not less than 76 + 10log(P) dB in a 6.25kHz band segment (per part90.543 (e)(1)), i.e. lower than -46 dBm/6.25kHz.

Compliant \boxtimes

Non-Compliant

Not Applicable \Box

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Test setup

Description of test set-up: Unwanted emission was measured by connecting a Spectrum Analyzer to the RF output connector via 40dB Attenuator. The input power was adjusted to produce maximum output power on the antenna port and just below the AGC threshold. The CW input signal was set to the lowest channel, center channel and the highest channel of the EUT operating band. The EUT was set to Operation Mode #1 with configuration Mode #1. Vector 40 dB Spectrum \sim EUT Signal hdHost Attenuator Analyzer Generator

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Results – Out-of-band Emissions



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STATUS





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Single 5MHz LTE Signal centered at 765.5 MHz, Upper Block Edge



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Results – Spurious Emissions



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Results – Out-of-band Intermodulation Emission



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