

LTE	Band 12	3MHz	QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-15 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth									
				f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
				Low Ch, 700.5MHz 1401.00 -13.9 V 3.0 41.7 1.0 -54.6 -13.0 -41.6 2101.50 2.6 V 3.0 42.0 1.0 -38.3 -13.0 -25.3 2802.00 -11.0 V 3.0 41.5 1.0 -51.4 -13.0 -38.4 3502.50 5.7 V 3.0 41.0 1.0 -34.3 -13.0 -21.3 4203.00 -4.0 V 3.0 40.6 1.0 -43.6 -13.0 -30.6 1401.00 -16.4 H 3.0 41.7 1.0 -57.1 -13.0 -44.1 2101.50 0.8 H 3.0 42.0 1.0 -40.1 -13.0 -27.1 2802.00 -11.9 H 3.0 41.5 1.0 -52.3 -13.0 -39.3 3502.50 5.5 H 3.0 41.0 1.0 -34.5 -13.0 -21.5 4203.00 -6.4 H 3.0 40.6 1.0 -46.0 -13.0 -33.0									
				Mid Ch, 707.5MHz 1415.00 -17.2 V 3.0 41.7 1.0 -57.8 -13.0 -44.8 2122.50 -4.5 V 3.0 41.9 1.0 -45.5 -13.0 -32.5 2830.00 -14.6 V 3.0 41.4 1.0 -55.1 -13.0 -42.1 3537.50 0.0 V 3.0 41.0 1.0 -39.9 -13.0 -26.9 4245.00 -10.5 V 3.0 40.5 1.0 -50.0 -13.0 -37.0 1415.00 -16.4 H 3.0 41.7 1.0 -57.0 -13.0 -44.0 2122.50 -6.0 H 3.0 41.9 1.0 -47.0 -13.0 -34.0 2830.00 -15.7 H 3.0 41.4 1.0 -56.2 -13.0 -43.2 3537.50 -0.1 H 3.0 41.0 1.0 -40.0 -13.0 -27.0 4245.00 -10.8 H 3.0 40.5 1.0 -50.3 -13.0 -37.3									
LTE	Band 12	3MHz	16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-15 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth									
				f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
				Low Ch, 700.5MHz 1401.00 -18.7 V 3.0 41.7 1.0 -59.3 -13.0 -46.3 2101.50 2.1 V 3.0 42.0 1.0 -38.8 -13.0 -25.8 2802.00 -11.8 V 3.0 41.5 1.0 -52.3 -13.0 -39.3 3502.50 -10.0 V 3.0 41.0 1.0 -50.0 -13.0 -37.0 4203.00 -5.1 V 3.0 40.6 1.0 -44.7 -13.0 -31.7 1401.00 -16.1 H 3.0 41.7 1.0 -56.8 -13.0 -43.8 2101.50 -1.1 H 3.0 42.0 1.0 -42.0 -13.0 -29.0 2802.00 -11.6 H 3.0 41.5 1.0 -52.1 -13.0 -39.1 3502.50 5.4 H 3.0 41.0 1.0 -34.6 -13.0 -21.6 4203.00 -6.7 H 3.0 40.6 1.0 -46.3 -13.0 -33.3									
				Mid Ch, 707.5MHz 1415.00 -17.4 V 3.0 41.7 1.0 -58.1 -13.0 -45.1 2122.50 -3.8 V 3.0 41.9 1.0 -44.8 -13.0 -31.8 2830.00 -14.5 V 3.0 41.4 1.0 -55.0 -13.0 -42.0 3537.50 -1.8 V 3.0 41.0 1.0 -41.8 -13.0 -28.8 4245.00 -11.5 V 3.0 40.5 1.0 -51.0 -13.0 -38.0 1415.00 -20.8 H 3.0 41.7 1.0 -61.4 -13.0 -48.4 2122.50 -5.5 H 3.0 41.9 1.0 -46.5 -13.0 -33.5 2830.00 -15.5 H 3.0 41.4 1.0 -56.0 -13.0 -43.0 3537.50 -1.5 H 3.0 41.0 1.0 -41.5 -13.0 -28.5 4245.00 -12.7 H 3.0 40.5 1.0 -52.2 -13.0 -39.2									
				High Ch, 714.5MHz 1429.00 -15.1 V 3.0 41.7 1.0 -55.8 -13.0 -42.8 2143.50 -2.4 V 3.0 41.9 1.0 -43.3 -13.0 -30.3 2858.00 -9.4 V 3.0 41.4 1.0 -49.8 -13.0 -36.8 3572.50 4.7 V 3.0 40.9 1.0 -35.3 -13.0 -22.3 4287.00 -6.2 V 3.0 40.5 1.0 -45.7 -13.0 -32.7 1429.00 -17.4 H 3.0 41.7 1.0 -58.1 -13.0 -45.1 2143.50 -3.7 H 3.0 41.9 1.0 -44.6 -13.0 -31.6 2858.00 -10.5 H 3.0 41.4 1.0 -50.9 -13.0 -37.9 3572.50 4.6 H 3.0 40.9 1.0 -35.4 -13.0 -22.4 4287.00 -8.3 H 3.0 40.5 1.0 -47.8 -13.0 -34.8									

LTE	Band 12	1.4MHz	QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788371667 Date: 2018-03-15 Test Engineer: 45574 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 12 Harmonics, 1.4MHz Bandwidth									
				f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
				MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
				Low Ch, 699.7MHz 1399.40 -14.4 V 3.0 41.7 1.0 -55.0 -13.0 -42.0 2099.10 -8.1 V 3.0 42.0 1.0 -50.1 -13.0 -37.1 2798.80 3.6 V 3.0 41.5 1.0 -36.8 -13.0 -23.8 3798.50 -15.4 V 3.0 40.8 1.0 -55.2 -13.0 -42.2 4198.20 -4.3 V 3.0 40.6 1.0 -43.9 -13.0 -30.9 1399.40 -15.4 H 3.0 41.7 1.0 -56.0 -13.0 -43.0 2099.10 -4.6 H 3.0 42.0 1.0 -45.6 -13.0 -32.6 2798.80 -12.4 H 3.0 41.5 1.0 -52.9 -13.0 -39.9 3798.50 -17.9 H 3.0 40.8 1.0 -57.7 -13.0 -44.7 4198.20 -6.5 H 3.0 40.6 1.0 -46.0 -13.0 -33.0 Mid Ch, 707.5MHz 1415.00 -18.1 V 3.0 41.7 1.0 -58.8 -13.0 -45.8 2122.50 -5.8 V 3.0 41.9 1.0 -46.7 -13.0 -33.7 2830.00 -14.4 V 3.0 41.4 1.0 -54.8 -13.0 -41.8 3537.50 -1.3 V 3.0 41.0 1.0 -41.3 -13.0 -28.3 4245.00 -10.2 V 3.0 40.5 1.0 -49.7 -13.0 -36.7 1415.00 -18.7 H 3.0 41.7 1.0 -59.3 -13.0 -46.3 2122.50 -5.9 H 3.0 41.9 1.0 -46.9 -13.0 -33.9 2830.00 -17.3 H 3.0 41.4 1.0 -57.7 -13.0 -44.7 3537.50 0.0 H 3.0 41.0 1.0 -40.0 -13.0 -27.0 4245.00 -10.8 H 3.0 40.5 1.0 -50.3 -13.0 -37.3 High Ch, 715.3MHz 1430.60 -16.2 V 3.0 41.7 1.0 -56.8 -13.0 -43.8 2145.90 -5.8 V 3.0 41.9 1.0 -46.7 -13.0 -33.7 2861.20 -8.9 V 3.0 41.4 1.0 -49.3 -13.0 -36.3 3576.50 -8.8 V 3.0 40.9 1.0 -48.7 -13.0 -35.7 4291.80 -7.0 V 3.0 40.5 1.0 -46.5 -13.0 -33.5 1430.60 -18.1 H 3.0 41.7 1.0 -58.8 -13.0 -45.8 2145.90 -7.3 H 3.0 41.9 1.0 -48.2 -13.0 -35.2 2861.20 -11.5 H 3.0 41.4 1.0 -51.9 -13.0 -38.9 3576.50 4.3 H 3.0 40.9 1.0 -35.7 -13.0 -22.7 4291.80 -8.3 H 3.0 40.5 1.0 -47.8 -13.0 -34.8									
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				MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
				Low Ch, 699.7MHz 1399.40 -15.0 V 3.0 41.7 1.0 -55.6 -13.0 -42.6 2099.10 3.2 V 3.0 42.0 1.0 -37.8 -13.0 -24.8 2798.80 -12.1 V 3.0 41.5 1.0 -52.6 -13.0 -39.6 3798.50 -15.9 V 3.0 40.8 1.0 -55.7 -13.0 -42.7 4198.20 -4.8 V 3.0 40.6 1.0 -44.4 -13.0 -31.4 1399.40 -15.7 H 3.0 41.7 1.0 -56.3 -13.0 -43.3 2099.10 1.5 H 3.0 42.0 1.0 -39.5 -13.0 -26.5 2798.80 -13.4 H 3.0 41.5 1.0 -53.8 -13.0 -40.8 3798.50 -15.5 H 3.0 40.8 1.0 -55.3 -13.0 -42.3 4198.20 -6.7 H 3.0 40.6 1.0 -46.3 -13.0 -33.3 Mid Ch, 707.5MHz 1415.00 -17.0 V 3.0 41.7 1.0 -57.7 -13.0 -44.7 2122.50 -5.5 V 3.0 41.9 1.0 -46.5 -13.0 -33.5 2830.00 -14.2 V 3.0 41.4 1.0 -54.7 -13.0 -41.7 3537.50 -4.2 V 3.0 41.0 1.0 -44.1 -13.0 -31.1 4245.00 -10.7 V 3.0 40.5 1.0 -50.3 -13.0 -37.3 1415.00 -17.7 H 3.0 41.7 1.0 -58.4 -13.0 -45.4 2122.50 -6.2 H 3.0 41.9 1.0 -47.1 -13.0 -34.1 2830.00 -16.2 H 3.0 41.4 1.0 -56.6 -13.0 -43.6 3537.50 -3.1 H 3.0 41.0 1.0 -43.1 -13.0 -30.1 4245.00 -12.0 H 3.0 40.5 1.0 -51.6 -13.0 -38.6 High Ch, 715.3MHz 1430.60 -16.6 V 3.0 41.7 1.0 -57.3 -13.0 -44.3 2145.90 -5.2 V 3.0 41.9 1.0 -46.1 -13.0 -33.1 2861.20 -9.0 V 3.0 41.4 1.0 -49.4 -13.0 -36.4 3576.50 6.6 V 3.0 40.9 1.0 -33.4 -13.0 -20.4 4291.80 -6.7 V 3.0 40.5 1.0 -46.2 -13.0 -33.2 1430.60 -16.8 H 3.0 41.7 1.0 -57.5 -13.0 -44.5 2145.90 -6.5 H 3.0 41.9 1.0 -47.4 -13.0 -34.4 2861.20 -11.5 H 3.0 41.4 1.0 -51.9 -13.0 -38.9 3576.50 5.0 H 3.0 40.9 1.0 -35.0 -13.0 -22.0 4291.80 -9.5 H 3.0 40.5 1.0 -49.1 -13.0 -36.1									