

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	146.47	35.43	1.17	100.0	± 9.6 %
		Y	100.00	130.05	29.64		100.0	
		Z	100.00	142.38	32.95		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	133.81	36.67	5.30	70.0	± 9.6 %
		Y	100.00	132.56	36.57		70.0	
		Z	18.79	102.95	27.19		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	7.76	92.37	23.91	1.88	100.0	± 9.6 %
		Y	6.00	87.65	22.68		100.0	
		Z	3.22	78.87	18.00		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	3.37	81.04	19.87	1.17	100.0	± 9.6 %
		Y	2.89	77.85	18.94		100.0	
		Z	2.06	74.00	15.93		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	134.35	36.91	5.30	70.0	± 9.6 %
		Y	100.00	133.01	36.79		70.0	
		Z	38.41	113.99	30.14		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	6.72	90.40	23.29	1.88	100.0	± 9.6 %
		Y	5.52	86.51	22.28		100.0	
		Z	2.77	77.09	17.35		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	3.40	81.53	20.18	1.17	100.0	± 9.6 %
		Y	2.93	78.34	19.24		100.0	
		Z	2.07	74.35	16.21		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	2.05	73.74	16.48	0.00	150.0	± 9.6 %
		Y	1.78	70.97	15.59		150.0	
		Z	1.68	71.87	14.68		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	111.92	25.18	7.78	50.0	± 9.6 %
		Y	100.00	114.62	26.97		50.0	
		Z	100.00	105.38	21.87		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	97.13	0.41	0.00	150.0	± 9.6 %
		Y	0.00	93.19	1.28		150.0	
		Z	0.01	94.96	0.54		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	111.98	26.96	13.80	25.0	± 9.6 %
		Y	100.00	121.05	31.60		25.0	
		Z	34.07	91.91	20.28		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	1284.72	142.21	32.21	10.79	40.0	± 9.6 %
		Y	100.00	117.51	29.18		40.0	
		Z	145.96	109.32	23.74		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	128.20	35.15	9.03	50.0	± 9.6 %
		Y	100.00	128.83	35.96		50.0	
		Z	100.00	122.10	31.77		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.71	78.88	26.31	6.55	100.0	± 9.6 %
		Y	5.67	81.33	26.92		100.0	
		Z	3.54	73.15	23.60		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.24	65.47	16.42	0.61	110.0	± 9.6 %
		Y	1.27	65.23	16.10		110.0	
		Z	1.17	64.77	15.84		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	144.38	38.50	1.30	110.0	± 9.6 %
		Y	100.00	138.88	36.40		110.0	
		Z	13.09	112.30	30.84		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	4.05	88.33	25.97	2.04	110.0	± 9.6 %
		Y	4.75	88.86	25.68		110.0	
		Z	2.16	77.73	21.68		110.0	
10062-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.69	66.76	16.65	0.49	100.0	± 9.6 %
		Y	4.76	66.60	16.58		100.0	
		Z	4.53	66.78	16.51		100.0	
10063-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.71	66.86	16.76	0.72	100.0	± 9.6 %
		Y	4.78	66.72	16.70		100.0	
		Z	4.54	66.86	16.60		100.0	
10064-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.99	67.12	16.99	0.86	100.0	± 9.6 %
		Y	5.09	67.02	16.95		100.0	
		Z	4.78	67.06	16.80		100.0	
10065-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.86	67.02	17.11	1.21	100.0	± 9.6 %
		Y	4.96	66.95	17.08		100.0	
		Z	4.65	66.90	16.87		100.0	
10066-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.88	67.05	17.29	1.46	100.0	± 9.6 %
		Y	4.99	66.99	17.27		100.0	
		Z	4.65	66.88	17.02		100.0	
10067-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.16	67.22	17.75	2.04	100.0	± 9.6 %
		Y	5.27	67.12	17.71		100.0	
		Z	4.93	67.13	17.49		100.0	
10068-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.20	67.26	17.98	2.55	100.0	± 9.6 %
		Y	5.34	67.28	18.00		100.0	
		Z	4.95	67.02	17.64		100.0	
10069-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.28	67.26	18.18	2.67	100.0	± 9.6 %
		Y	5.42	67.23	18.17		100.0	
		Z	5.02	67.05	17.83		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.98	66.86	17.58	1.99	100.0	± 9.6 %
		Y	5.07	66.77	17.55		100.0	
		Z	4.79	66.80	17.35		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.95	67.19	17.81	2.30	100.0	± 9.6 %
		Y	5.06	67.16	17.80		100.0	
		Z	4.74	67.03	17.53		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.00	67.34	18.16	2.83	100.0	± 9.6 %
		Y	5.12	67.33	18.16		100.0	
		Z	4.79	67.17	17.85		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.97	67.20	18.31	3.30	100.0	± 9.6 %
		Y	5.10	67.22	18.33		100.0	
		Z	4.78	67.07	17.99		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.00	67.30	18.63	3.82	90.0	± 9.6 %
		Y	5.15	67.40	18.70		90.0	
		Z	4.78	67.05	18.23		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.00	67.05	18.74	4.15	90.0	± 9.6 %
		Y	5.14	67.12	18.78		90.0	
		Z	4.81	66.90	18.39		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.02	67.11	18.84	4.30	90.0	± 9.6 %
		Y	5.16	67.16	18.87		90.0	
		Z	4.84	66.97	18.50		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.91	67.10	13.23	0.00	150.0	± 9.6 %
		Y	0.87	65.55	12.69		150.0	
		Z	0.76	65.80	11.60		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.67	60.00	4.34	4.77	80.0	± 9.6 %
		Y	0.83	60.00	4.98		80.0	
		Z	1.32	62.68	4.53		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	117.37	27.43	6.56	60.0	± 9.6 %
		Y	100.00	118.23	28.46		60.0	
		Z	100.00	109.70	23.50		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.89	68.18	16.03	0.00	150.0	± 9.6 %
		Y	1.82	67.06	15.47		150.0	
		Z	1.87	68.73	15.97		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.85	68.15	16.01	0.00	150.0	± 9.6 %
		Y	1.78	67.01	15.43		150.0	
		Z	1.83	68.68	15.95		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	12.41	103.93	38.44	9.56	60.0	± 9.6 %
		Y	14.05	103.81	37.62		60.0	
		Z	6.94	89.30	32.81		60.0	
10100-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.20	70.68	16.98	0.00	150.0	± 9.6 %
		Y	3.15	69.96	16.53		150.0	
		Z	3.05	70.44	16.91		150.0	
10101-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.27	67.67	16.10	0.00	150.0	± 9.6 %
		Y	3.29	67.34	15.87		150.0	
		Z	3.15	67.56	16.02		150.0	
10102-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.37	67.61	16.17	0.00	150.0	± 9.6 %
		Y	3.39	67.30	15.96		150.0	
		Z	3.26	67.54	16.10		150.0	
10103-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.70	77.76	21.71	3.98	65.0	± 9.6 %
		Y	7.25	78.01	21.66		65.0	
		Z	5.31	74.49	20.24		65.0	
10104-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.39	74.88	21.30	3.98	65.0	± 9.6 %
		Y	7.01	75.63	21.49		65.0	
		Z	5.41	72.53	20.08		65.0	
10105-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.93	73.22	20.87	3.98	65.0	± 9.6 %
		Y	6.37	73.62	20.93		65.0	
		Z	4.98	70.66	19.52		65.0	
10108-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.79	69.92	16.81	0.00	150.0	± 9.6 %
		Y	2.76	69.17	16.35		150.0	
		Z	2.63	69.76	16.75		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.93	67.55	16.01	0.00	150.0	± 9.6 %
		Y	2.94	67.14	15.76		150.0	
		Z	2.80	67.54	15.90		150.0	
10110-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.27	69.10	16.46	0.00	150.0	± 9.6 %
		Y	2.25	68.23	15.96		150.0	
		Z	2.13	69.06	16.32		150.0	
10111-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.65	68.45	16.32	0.00	150.0	± 9.6 %
		Y	2.64	67.76	16.00		150.0	
		Z	2.55	68.78	16.20		150.0	

10112-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.05	67.53	16.06	0.00	150.0	± 9.6 %
		Y	3.07	67.13	15.82		150.0	
		Z	2.92	67.58	15.97		150.0	
10113-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.80	68.56	16.43	0.00	150.0	± 9.6 %
		Y	2.80	67.90	16.13		150.0	
		Z	2.69	68.93	16.32		150.0	
10114-CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.15	67.26	16.54	0.00	150.0	± 9.6 %
		Y	5.19	67.08	16.42		150.0	
		Z	4.99	67.20	16.47		150.0	
10115-CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.43	67.37	16.60	0.00	150.0	± 9.6 %
		Y	5.52	67.34	16.56		150.0	
		Z	5.24	67.27	16.51		150.0	
10116-CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.24	67.44	16.56	0.00	150.0	± 9.6 %
		Y	5.30	67.32	16.46		150.0	
		Z	5.08	67.39	16.50		150.0	
10117-CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.11	67.11	16.48	0.00	150.0	± 9.6 %
		Y	5.16	66.99	16.39		150.0	
		Z	4.99	67.15	16.47		150.0	
10118-CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.51	67.58	16.71	0.00	150.0	± 9.6 %
		Y	5.61	67.54	16.67		150.0	
		Z	5.31	67.44	16.61		150.0	
10119-CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.22	67.40	16.54	0.00	150.0	± 9.6 %
		Y	5.27	67.25	16.44		150.0	
		Z	5.07	67.38	16.51		150.0	
10140-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.41	67.63	16.10	0.00	150.0	± 9.6 %
		Y	3.43	67.31	15.88		150.0	
		Z	3.28	67.57	16.02		150.0	
10141-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.53	67.71	16.25	0.00	150.0	± 9.6 %
		Y	3.55	67.40	16.05		150.0	
		Z	3.40	67.71	16.20		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.05	69.21	16.15	0.00	150.0	± 9.6 %
		Y	2.02	68.14	15.65		150.0	
		Z	1.90	69.18	15.79		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.53	69.32	16.06	0.00	150.0	± 9.6 %
		Y	2.50	68.40	15.76		150.0	
		Z	2.39	69.52	15.59		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.28	66.94	14.41	0.00	150.0	± 9.6 %
		Y	2.31	66.41	14.31		150.0	
		Z	2.06	66.49	13.57		150.0	
10145-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.26	65.57	12.06	0.00	150.0	± 9.6 %
		Y	1.33	65.51	12.47		150.0	
		Z	0.90	62.72	9.31		150.0	
10146-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.87	65.71	11.26	0.00	150.0	± 9.6 %
		Y	2.34	67.84	13.03		150.0	
		Z	1.05	60.97	7.27		150.0	
10147-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.17	67.47	12.23	0.00	150.0	± 9.6 %
		Y	2.79	70.16	14.23		150.0	
		Z	1.11	61.38	7.60		150.0	

10149-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.93	67.61	16.06	0.00	150.0	± 9.6 %
		Y	2.95	67.20	15.81		150.0	
		Z	2.81	67.60	15.95		150.0	
10150-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.06	67.58	16.10	0.00	150.0	± 9.6 %
		Y	3.08	67.18	15.86		150.0	
		Z	2.93	67.64	16.01		150.0	
10151-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	7.47	81.50	23.31	3.98	65.0	± 9.6 %
		Y	8.13	81.64	23.19		65.0	
		Z	5.82	78.02	21.74		65.0	
10152-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.96	75.09	21.13	3.98	65.0	± 9.6 %
		Y	6.59	75.82	21.34		65.0	
		Z	4.95	72.53	19.69		65.0	
10153-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	6.33	76.00	21.87	3.98	65.0	± 9.6 %
		Y	6.98	76.72	22.08		65.0	
		Z	5.31	73.57	20.52		65.0	
10154-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.32	69.50	16.70	0.00	150.0	± 9.6 %
		Y	2.30	68.63	16.21		150.0	
		Z	2.17	69.43	16.55		150.0	
10155-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.65	68.47	16.34	0.00	150.0	± 9.6 %
		Y	2.64	67.77	16.01		150.0	
		Z	2.55	68.82	16.23		150.0	
10156-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.90	69.38	15.98	0.00	150.0	± 9.6 %
		Y	1.87	68.22	15.49		150.0	
		Z	1.73	69.10	15.35		150.0	
10157-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.13	67.61	14.49	0.00	150.0	± 9.6 %
		Y	2.14	66.94	14.37		150.0	
		Z	1.88	66.88	13.39		150.0	
10158-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.80	68.62	16.48	0.00	150.0	± 9.6 %
		Y	2.80	67.95	16.18		150.0	
		Z	2.70	69.02	16.37		150.0	
10159-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.24	68.05	14.76	0.00	150.0	± 9.6 %
		Y	2.25	67.38	14.65		150.0	
		Z	1.97	67.26	13.62		150.0	
10160-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.79	68.96	16.56	0.00	150.0	± 9.6 %
		Y	2.78	68.29	16.16		150.0	
		Z	2.67	69.03	16.52		150.0	
10161-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.95	67.54	16.03	0.00	150.0	± 9.6 %
		Y	2.97	67.10	15.79		150.0	
		Z	2.82	67.63	15.91		150.0	
10162-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.06	67.69	16.14	0.00	150.0	± 9.6 %
		Y	3.08	67.22	15.89		150.0	
		Z	2.94	67.84	16.05		150.0	
10166-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.60	69.71	19.22	3.01	150.0	± 9.6 %
		Y	3.76	69.53	19.10		150.0	
		Z	3.14	68.43	18.52		150.0	
10167-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.49	72.92	19.79	3.01	150.0	± 9.6 %
		Y	4.71	72.48	19.58		150.0	
		Z	3.64	70.88	18.81		150.0	

10168-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.99	75.19	21.10	3.01	150.0	± 9.6 %
		Y	5.19	74.57	20.82		150.0	
		Z	4.03	73.14	20.19		150.0	
10169-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.02	69.31	19.06	3.01	150.0	± 9.6 %
		Y	3.27	69.70	19.15		150.0	
		Z	2.51	66.78	17.76		150.0	
10170-CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.24	75.66	21.52	3.01	150.0	± 9.6 %
		Y	4.60	75.59	21.37		150.0	
		Z	3.08	71.28	19.66		150.0	
10171-AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.48	71.52	18.79	3.01	150.0	± 9.6 %
		Y	3.80	71.54	18.73		150.0	
		Z	2.62	68.04	17.18		150.0	
10172-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	9.86	97.03	31.31	6.02	65.0	± 9.6 %
		Y	11.94	97.60	31.03		65.0	
		Z	3.49	77.54	23.86		65.0	
10173-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	35.90	116.24	34.55	6.02	65.0	± 9.6 %
		Y	33.36	111.72	33.12		65.0	
		Z	6.56	87.15	25.45		65.0	
10174-CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	21.48	105.16	30.85	6.02	65.0	± 9.6 %
		Y	20.65	101.59	29.68		65.0	
		Z	4.70	80.63	22.56		65.0	
10175-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.98	69.02	18.83	3.01	150.0	± 9.6 %
		Y	3.23	69.39	18.90		150.0	
		Z	2.49	66.55	17.55		150.0	
10176-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.24	75.68	21.53	3.01	150.0	± 9.6 %
		Y	4.61	75.61	21.38		150.0	
		Z	3.09	71.30	19.67		150.0	
10177-CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.01	69.16	18.92	3.01	150.0	± 9.6 %
		Y	3.26	69.54	19.00		150.0	
		Z	2.50	66.65	17.62		150.0	
10178-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	4.21	75.48	21.42	3.01	150.0	± 9.6 %
		Y	4.56	75.38	21.26		150.0	
		Z	3.07	71.19	19.60		150.0	
10179-CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.83	73.49	20.03	3.01	150.0	± 9.6 %
		Y	4.16	73.42	19.91		150.0	
		Z	2.83	69.59	18.31		150.0	
10180-CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.47	71.46	18.75	3.01	150.0	± 9.6 %
		Y	3.79	71.47	18.68		150.0	
		Z	2.62	68.01	17.15		150.0	
10181-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.00	69.14	18.91	3.01	150.0	± 9.6 %
		Y	3.26	69.52	18.99		150.0	
		Z	2.50	66.64	17.62		150.0	
10182-CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	4.20	75.46	21.41	3.01	150.0	± 9.6 %
		Y	4.55	75.36	21.25		150.0	
		Z	3.07	71.17	19.59		150.0	
10183-AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.46	71.44	18.74	3.01	150.0	± 9.6 %
		Y	3.78	71.45	18.67		150.0	
		Z	2.62	68.00	17.14		150.0	

10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.01	69.18	18.93	3.01	150.0	± 9.6 %
		Y	3.27	69.56	19.01		150.0	
		Z	2.51	66.67	17.63		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	4.22	75.53	21.45	3.01	150.0	± 9.6 %
		Y	4.57	75.42	21.28		150.0	
		Z	3.08	71.23	19.63		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.48	71.51	18.77	3.01	150.0	± 9.6 %
		Y	3.80	71.51	18.70		150.0	
		Z	2.63	68.05	17.17		150.0	
10187-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.02	69.24	19.00	3.01	150.0	± 9.6 %
		Y	3.28	69.61	19.07		150.0	
		Z	2.52	66.73	17.71		150.0	
10188-CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	4.35	76.17	21.80	3.01	150.0	± 9.6 %
		Y	4.72	76.08	21.65		150.0	
		Z	3.15	71.69	19.93		150.0	
10189-AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.56	71.93	19.04	3.01	150.0	± 9.6 %
		Y	3.88	71.93	18.97		150.0	
		Z	2.67	68.37	17.41		150.0	
10193-CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.54	66.68	16.24	0.00	150.0	± 9.6 %
		Y	4.59	66.47	16.13		150.0	
		Z	4.40	66.85	16.19		150.0	
10194-CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.70	66.99	16.36	0.00	150.0	± 9.6 %
		Y	4.77	66.80	16.26		150.0	
		Z	4.55	67.09	16.33		150.0	
10195-CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.74	67.02	16.38	0.00	150.0	± 9.6 %
		Y	4.81	66.83	16.27		150.0	
		Z	4.58	67.11	16.34		150.0	
10196-CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.54	66.74	16.25	0.00	150.0	± 9.6 %
		Y	4.60	66.55	16.16		150.0	
		Z	4.39	66.85	16.19		150.0	
10197-CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.72	67.01	16.37	0.00	150.0	± 9.6 %
		Y	4.78	66.83	16.27		150.0	
		Z	4.56	67.10	16.33		150.0	
10198-CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.75	67.04	16.39	0.00	150.0	± 9.6 %
		Y	4.81	66.85	16.28		150.0	
		Z	4.58	67.11	16.34		150.0	
10219-CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.49	66.76	16.22	0.00	150.0	± 9.6 %
		Y	4.55	66.56	16.12		150.0	
		Z	4.34	66.89	16.16		150.0	
10220-CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.71	66.98	16.36	0.00	150.0	± 9.6 %
		Y	4.78	66.81	16.26		150.0	
		Z	4.55	67.06	16.32		150.0	
10221-CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.75	66.96	16.37	0.00	150.0	± 9.6 %
		Y	4.82	66.78	16.27		150.0	
		Z	4.59	67.05	16.33		150.0	
10222-CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.08	67.12	16.48	0.00	150.0	± 9.6 %
		Y	5.14	67.00	16.39		150.0	
		Z	4.96	67.13	16.45		150.0	

10223-CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.38	67.33	16.60	0.00	150.0	± 9.6 %
		Y	5.45	67.20	16.51		150.0	
		Z	5.23	67.33	16.56		150.0	
10224-CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.13	67.23	16.46	0.00	150.0	± 9.6 %
		Y	5.19	67.11	16.37		150.0	
		Z	4.99	67.25	16.44		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.82	66.29	15.44	0.00	150.0	± 9.6 %
		Y	2.85	65.89	15.31		150.0	
		Z	2.69	66.42	15.13		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	40.58	118.73	35.31	6.02	65.0	± 9.6 %
		Y	36.88	113.76	33.77		65.0	
		Z	6.94	88.26	25.92		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	36.33	114.29	33.35	6.02	65.0	± 9.6 %
		Y	31.30	108.87	31.78		65.0	
		Z	6.95	87.06	24.80		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	13.65	104.05	33.59	6.02	65.0	± 9.6 %
		Y	18.81	107.23	34.08		65.0	
		Z	4.50	82.80	25.97		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	36.18	116.36	34.59	6.02	65.0	± 9.6 %
		Y	33.58	111.82	33.15		65.0	
		Z	6.61	87.25	25.49		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	32.38	112.10	32.69	6.02	65.0	± 9.6 %
		Y	28.70	107.19	31.24		65.0	
		Z	6.54	85.97	24.36		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	12.84	102.68	33.09	6.02	65.0	± 9.6 %
		Y	17.62	105.78	33.56		65.0	
		Z	4.35	82.09	25.62		65.0	
10232-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	36.15	116.36	34.59	6.02	65.0	± 9.6 %
		Y	33.55	111.82	33.15		65.0	
		Z	6.59	87.23	25.48		65.0	
10233-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	32.28	112.07	32.68	6.02	65.0	± 9.6 %
		Y	28.65	107.18	31.24		65.0	
		Z	6.52	85.93	24.35		65.0	
10234-CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	12.22	101.47	32.58	6.02	65.0	± 9.6 %
		Y	16.65	104.42	33.04		65.0	
		Z	4.24	81.51	25.28		65.0	
10235-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	36.31	116.46	34.62	6.02	65.0	± 9.6 %
		Y	33.66	111.90	33.18		65.0	
		Z	6.60	87.26	25.49		65.0	
10236-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	33.06	112.44	32.77	6.02	65.0	± 9.6 %
		Y	29.12	107.43	31.30		65.0	
		Z	6.60	86.11	24.40		65.0	
10237-CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	12.90	102.82	33.13	6.02	65.0	± 9.6 %
		Y	17.72	105.93	33.61		65.0	
		Z	4.35	82.12	25.64		65.0	
10238-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	36.09	116.34	34.59	6.02	65.0	± 9.6 %
		Y	33.52	111.82	33.15		65.0	
		Z	6.58	87.20	25.47		65.0	

10239-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	32.17	112.03	32.67	6.02	65.0	± 9.6 %
		Y	28.59	107.16	31.23		65.0	
		Z	6.49	85.89	24.34		65.0	
10240-CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	12.85	102.75	33.11	6.02	65.0	± 9.6 %
		Y	17.65	105.86	33.59		65.0	
		Z	4.34	82.09	25.63		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.52	83.40	26.72	6.98	65.0	± 9.6 %
		Y	9.34	83.46	26.63		65.0	
		Z	6.49	79.39	24.77		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.72	81.29	25.79	6.98	65.0	± 9.6 %
		Y	8.22	80.66	25.42		65.0	
		Z	5.72	76.85	23.63		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.95	76.72	24.82	6.98	65.0	± 9.6 %
		Y	6.41	76.67	24.65		65.0	
		Z	4.75	73.34	22.98		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	6.67	78.45	19.67	3.98	65.0	± 9.6 %
		Y	8.20	80.91	21.14		65.0	
		Z	3.50	69.23	14.35		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	6.39	77.48	19.23	3.98	65.0	± 9.6 %
		Y	7.92	80.07	20.76		65.0	
		Z	3.42	68.65	14.03		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	8.15	85.97	22.95	3.98	65.0	± 9.6 %
		Y	9.24	86.80	23.49		65.0	
		Z	4.03	75.23	17.77		65.0	
10247-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.50	76.42	20.00	3.98	65.0	± 9.6 %
		Y	6.26	77.49	20.66		65.0	
		Z	3.95	71.61	16.94		65.0	
10248-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.40	75.54	19.60	3.98	65.0	± 9.6 %
		Y	6.16	76.66	20.28		65.0	
		Z	3.89	70.88	16.59		65.0	
10249-CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.66	89.43	25.19	3.98	65.0	± 9.6 %
		Y	10.35	89.11	25.13		65.0	
		Z	5.64	80.91	21.33		65.0	
10250-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.21	78.20	22.44	3.98	65.0	± 9.6 %
		Y	6.93	79.00	22.73		65.0	
		Z	4.95	74.96	20.57		65.0	
10251-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.85	75.76	21.03	3.98	65.0	± 9.6 %
		Y	6.49	76.44	21.31		65.0	
		Z	4.69	72.73	19.17		65.0	
10252-CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	8.41	86.24	25.10	3.98	65.0	± 9.6 %
		Y	9.13	86.11	24.91		65.0	
		Z	5.95	81.04	22.79		65.0	
10253-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.81	74.45	20.83	3.98	65.0	± 9.6 %
		Y	6.39	75.11	21.05		65.0	
		Z	4.88	72.13	19.42		65.0	
10254-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	6.16	75.32	21.51	3.98	65.0	± 9.6 %
		Y	6.77	75.99	21.73		65.0	
		Z	5.19	73.05	20.14		65.0	

10255-CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.96	80.42	23.12	3.98	65.0	± 9.6 %
		Y	7.59	80.64	23.06		65.0	
		Z	5.51	77.21	21.58		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	4.89	73.41	16.49	3.98	65.0	± 9.6 %
		Y	6.68	77.30	18.76		65.0	
		Z	2.46	64.75	10.88		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.63	72.26	15.89	3.98	65.0	± 9.6 %
		Y	6.35	76.13	18.19		65.0	
		Z	2.42	64.27	10.52		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	5.50	79.01	19.45	3.98	65.0	± 9.6 %
		Y	7.01	81.77	20.90		65.0	
		Z	2.56	68.30	13.54		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.80	77.14	20.90	3.98	65.0	± 9.6 %
		Y	6.53	78.01	21.38		65.0	
		Z	4.38	73.08	18.36		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.78	76.67	20.70	3.98	65.0	± 9.6 %
		Y	6.51	77.60	21.22		65.0	
		Z	4.39	72.73	18.19		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	8.27	86.47	24.62	3.98	65.0	± 9.6 %
		Y	9.00	86.40	24.57		65.0	
		Z	5.46	80.05	21.57		65.0	
10262-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	6.19	78.15	22.39	3.98	65.0	± 9.6 %
		Y	6.92	78.95	22.69		65.0	
		Z	4.94	74.88	20.51		65.0	
10263-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.84	75.72	21.02	3.98	65.0	± 9.6 %
		Y	6.48	76.42	21.31		65.0	
		Z	4.68	72.71	19.16		65.0	
10264-CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	8.30	85.98	24.99	3.98	65.0	± 9.6 %
		Y	9.03	85.88	24.80		65.0	
		Z	5.88	80.81	22.67		65.0	
10265-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.96	75.09	21.13	3.98	65.0	± 9.6 %
		Y	6.59	75.82	21.35		65.0	
		Z	4.95	72.53	19.70		65.0	
10266-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.33	75.99	21.86	3.98	65.0	± 9.6 %
		Y	6.97	76.70	22.07		65.0	
		Z	5.31	73.56	20.51		65.0	
10267-CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	7.45	81.44	23.28	3.98	65.0	± 9.6 %
		Y	8.11	81.58	23.17		65.0	
		Z	5.81	77.97	21.72		65.0	
10268-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.50	74.59	21.27	3.98	65.0	± 9.6 %
		Y	7.11	75.29	21.47		65.0	
		Z	5.58	72.49	20.14		65.0	
10269-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.45	74.07	21.10	3.98	65.0	± 9.6 %
		Y	7.04	74.76	21.30		65.0	
		Z	5.59	72.11	20.01		65.0	
10270-CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.83	77.38	21.77	3.98	65.0	± 9.6 %
		Y	7.44	77.78	21.79		65.0	
		Z	5.71	75.01	20.64		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.62	66.75	15.42	0.00	150.0	± 9.6 %
		Y	2.61	66.15	15.17		150.0	
		Z	2.54	67.07	15.23		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.67	68.55	15.99	0.00	150.0	± 9.6 %
		Y	1.61	67.31	15.31		150.0	
		Z	1.61	68.63	15.84		150.0	
10277-CAA	PHS (QPSK)	X	1.74	60.91	6.37	9.03	50.0	± 9.6 %
		Y	2.31	62.75	8.24		50.0	
		Z	1.34	59.32	4.61		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.23	83.71	19.86	9.03	50.0	± 9.6 %
		Y	16.13	92.59	23.80		50.0	
		Z	2.80	66.68	11.50		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.55	84.14	20.09	9.03	50.0	± 9.6 %
		Y	16.22	92.62	23.87		50.0	
		Z	2.90	67.01	11.74		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.55	69.78	14.51	0.00	150.0	± 9.6 %
		Y	1.48	68.23	14.09		150.0	
		Z	1.19	67.52	12.47		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.89	66.83	13.08	0.00	150.0	± 9.6 %
		Y	0.85	65.35	12.57		150.0	
		Z	0.74	65.55	11.46		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	1.27	72.61	16.13	0.00	150.0	± 9.6 %
		Y	1.03	68.80	14.67		150.0	
		Z	1.20	72.32	14.93		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	2.34	81.60	20.09	0.00	150.0	± 9.6 %
		Y	1.43	73.64	17.27		150.0	
		Z	3.93	87.90	20.92		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	16.32	98.49	29.02	9.03	50.0	± 9.6 %
		Y	11.98	92.39	27.58		50.0	
		Z	18.77	96.90	26.52		50.0	
10297-AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.80	70.02	16.88	0.00	150.0	± 9.6 %
		Y	2.77	69.27	16.41		150.0	
		Z	2.65	69.87	16.82		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.62	68.28	14.44	0.00	150.0	± 9.6 %
		Y	1.62	67.40	14.26		150.0	
		Z	1.32	66.56	12.71		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.59	69.34	14.00	0.00	150.0	± 9.6 %
		Y	2.92	70.30	15.01		150.0	
		Z	1.54	64.05	10.22		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.92	64.86	11.14	0.00	150.0	± 9.6 %
		Y	2.24	65.95	12.27		150.0	
		Z	1.26	61.60	8.20		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.85	66.06	17.86	4.17	50.0	± 9.6 %
		Y	4.97	65.84	17.76		50.0	
		Z	4.42	65.27	17.23		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.22	66.19	18.31	4.96	50.0	± 9.6 %
		Y	5.38	66.17	18.31		50.0	
		Z	4.86	65.76	17.88		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.96	65.79	18.13	4.96	50.0	± 9.6 %
		Y	5.14	65.84	18.17		50.0	
		Z	4.61	65.34	17.65		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.78	65.69	17.62	4.17	50.0	± 9.6 %
		Y	4.94	65.66	17.62		50.0	
		Z	4.45	65.35	17.22		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.24	66.91	19.40	6.02	35.0	± 9.6 %
		Y	4.54	67.57	19.86		35.0	
		Z	3.84	65.89	18.29		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.62	66.22	19.11	6.02	35.0	± 9.6 %
		Y	4.86	66.59	19.39		35.0	
		Z	4.26	65.53	18.31		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.50	66.31	19.05	6.02	35.0	± 9.6 %
		Y	4.77	66.81	19.39		35.0	
		Z	4.12	65.47	18.17		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.47	66.49	19.18	6.02	35.0	± 9.6 %
		Y	4.73	66.98	19.51		35.0	
		Z	4.09	65.63	18.30		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.68	66.45	19.27	6.02	35.0	± 9.6 %
		Y	4.93	66.86	19.56		35.0	
		Z	4.28	65.63	18.41		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.56	66.25	19.08	6.02	35.0	± 9.6 %
		Y	4.81	66.65	19.36		35.0	
		Z	4.20	65.54	18.28		35.0	
10311-AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.16	69.26	16.50	0.00	150.0	± 9.6 %
		Y	3.13	68.60	16.08		150.0	
		Z	3.01	69.09	16.45		150.0	
10313-AAA	IDEN 1:3	X	8.00	86.23	21.34	6.99	70.0	± 9.6 %
		Y	8.53	85.21	20.95		70.0	
		Z	3.31	75.28	17.31		70.0	
10314-AAA	IDEN 1:6	X	12.68	100.31	29.33	10.00	30.0	± 9.6 %
		Y	13.31	98.73	28.67		30.0	
		Z	5.19	85.23	24.17		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.10	64.07	15.53	0.17	150.0	± 9.6 %
		Y	1.10	63.56	15.08		150.0	
		Z	1.08	63.95	15.31		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.59	66.75	16.41	0.17	150.0	± 9.6 %
		Y	4.66	66.58	16.32		150.0	
		Z	4.43	66.78	16.29		150.0	
10317-AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.59	66.75	16.41	0.17	150.0	± 9.6 %
		Y	4.66	66.58	16.32		150.0	
		Z	4.43	66.78	16.29		150.0	
10400-AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.69	67.06	16.37	0.00	150.0	± 9.6 %
		Y	4.77	66.86	16.25		150.0	
		Z	4.51	67.11	16.31		150.0	
10401-AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.41	67.26	16.54	0.00	150.0	± 9.6 %
		Y	5.45	67.06	16.42		150.0	
		Z	5.18	66.94	16.33		150.0	

10402-AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.65	67.49	16.51	0.00	150.0	± 9.6 %
		Y	5.72	67.43	16.45		150.0	
		Z	5.51	67.47	16.48		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.55	69.78	14.51	0.00	115.0	± 9.6 %
		Y	1.48	68.23	14.09		115.0	
		Z	1.19	67.52	12.47		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.55	69.78	14.51	0.00	115.0	± 9.6 %
		Y	1.48	68.23	14.09		115.0	
		Z	1.19	67.52	12.47		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	120.41	29.76	0.00	100.0	± 9.6 %
		Y	19.72	99.25	25.38		100.0	
		Z	22.86	100.95	24.14		100.0	
10410-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.71	31.88	3.23	80.0	± 9.6 %
		Y	100.00	124.16	31.78		80.0	
		Z	8.15	91.76	22.46		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.26	14.92	0.00	150.0	± 9.6 %
		Y	1.02	62.63	14.41		150.0	
		Z	1.03	63.39	14.88		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.54	66.72	16.31	0.00	150.0	± 9.6 %
		Y	4.59	66.51	16.19		150.0	
		Z	4.40	66.84	16.26		150.0	
10417-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.54	66.72	16.31	0.00	150.0	± 9.6 %
		Y	4.59	66.51	16.19		150.0	
		Z	4.40	66.84	16.26		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.53	66.89	16.33	0.00	150.0	± 9.6 %
		Y	4.58	66.66	16.20		150.0	
		Z	4.40	67.05	16.32		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.55	66.83	16.33	0.00	150.0	± 9.6 %
		Y	4.60	66.61	16.21		150.0	
		Z	4.41	66.98	16.30		150.0	
10422-AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.66	66.83	16.34	0.00	150.0	± 9.6 %
		Y	4.72	66.62	16.23		150.0	
		Z	4.52	66.95	16.31		150.0	
10423-AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.82	67.13	16.45	0.00	150.0	± 9.6 %
		Y	4.90	66.96	16.35		150.0	
		Z	4.65	67.21	16.40		150.0	
10424-AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.75	67.09	16.43	0.00	150.0	± 9.6 %
		Y	4.82	66.90	16.32		150.0	
		Z	4.58	67.17	16.38		150.0	
10425-AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.35	67.37	16.60	0.00	150.0	± 9.6 %
		Y	5.42	67.27	16.52		150.0	
		Z	5.19	67.35	16.55		150.0	
10426-AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.36	67.42	16.62	0.00	150.0	± 9.6 %
		Y	5.42	67.27	16.52		150.0	
		Z	5.21	67.42	16.58		150.0	

10427-AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.37	67.38	16.60	0.00	150.0	± 9.6 %
		Y	5.43	67.25	16.50		150.0	
		Z	5.18	67.23	16.48		150.0	
10430-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.24	70.83	18.17	0.00	150.0	± 9.6 %
		Y	4.26	70.25	18.02		150.0	
		Z	4.20	71.89	18.27		150.0	
10431-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.21	67.30	16.30	0.00	150.0	± 9.6 %
		Y	4.28	67.03	16.19		150.0	
		Z	4.03	67.45	16.18		150.0	
10432-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.51	67.15	16.38	0.00	150.0	± 9.6 %
		Y	4.58	66.93	16.27		150.0	
		Z	4.34	67.27	16.32		150.0	
10433-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.76	67.12	16.45	0.00	150.0	± 9.6 %
		Y	4.83	66.94	16.34		150.0	
		Z	4.59	67.20	16.40		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.34	71.72	18.14	0.00	150.0	± 9.6 %
		Y	4.35	71.03	17.99		150.0	
		Z	4.31	72.81	18.12		150.0	
10435-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.48	31.77	3.23	80.0	± 9.6 %
		Y	100.00	123.97	31.69		80.0	
		Z	7.63	90.76	22.11		80.0	
10447-AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.51	67.35	15.60	0.00	150.0	± 9.6 %
		Y	3.58	66.99	15.55		150.0	
		Z	3.28	67.36	15.16		150.0	
10448-AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.06	67.09	16.17	0.00	150.0	± 9.6 %
		Y	4.12	66.80	16.05		150.0	
		Z	3.89	67.25	16.05		150.0	
10449-AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.33	66.98	16.28	0.00	150.0	± 9.6 %
		Y	4.39	66.75	16.16		150.0	
		Z	4.18	67.10	16.22		150.0	
10450-AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.53	66.89	16.30	0.00	150.0	± 9.6 %
		Y	4.58	66.69	16.19		150.0	
		Z	4.39	66.98	16.26		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.39	67.51	15.20	0.00	150.0	± 9.6 %
		Y	3.48	67.19	15.21		150.0	
		Z	3.10	67.22	14.48		150.0	
10456-AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.22	67.91	16.74	0.00	150.0	± 9.6 %
		Y	6.28	67.83	16.68		150.0	
		Z	6.11	67.90	16.72		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.80	65.37	16.02	0.00	150.0	± 9.6 %
		Y	3.83	65.15	15.90		150.0	
		Z	3.74	65.57	15.99		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.21	66.83	14.57	0.00	150.0	± 9.6 %
		Y	3.31	66.55	14.68		150.0	
		Z	2.82	66.01	13.39		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.29	65.14	15.57	0.00	150.0	± 9.6 %
		Y	4.36	64.71	15.51		150.0	
		Z	4.04	65.27	15.07		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.96	69.26	16.86	0.00	150.0	± 9.6 %
		Y	0.88	67.02	15.53		150.0	
		Z	0.94	69.35	16.76		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	131.25	34.47	3.29	80.0	± 9.6 %
		Y	100.00	128.59	33.89		80.0	
		Z	3.16	81.29	20.28		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	18.15	90.54	19.55	3.23	80.0	± 9.6 %
		Y	100.00	110.06	25.23		80.0	
		Z	0.71	60.00	7.72		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.32	68.92	12.27	3.23	80.0	± 9.6 %
		Y	12.78	85.50	18.46		80.0	
		Z	0.72	60.00	7.06		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.50	33.02	3.23	80.0	± 9.6 %
		Y	100.00	126.31	32.66		80.0	
		Z	2.43	77.27	18.20		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.48	81.44	16.98	3.23	80.0	± 9.6 %
		Y	53.06	102.63	23.42		80.0	
		Z	0.71	60.00	7.65		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.86	66.75	11.37	3.23	80.0	± 9.6 %
		Y	7.10	79.26	16.56		80.0	
		Z	0.72	60.00	7.01		80.0	
10467-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.82	33.16	3.23	80.0	± 9.6 %
		Y	100.00	126.57	32.78		80.0	
		Z	2.60	78.29	18.60		80.0	
10468-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	9.21	83.60	17.62	3.23	80.0	± 9.6 %
		Y	76.07	106.68	24.37		80.0	
		Z	0.70	60.00	7.67		80.0	
10469-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.87	66.82	11.40	3.23	80.0	± 9.6 %
		Y	7.22	79.45	16.62		80.0	
		Z	0.72	60.00	7.01		80.0	
10470-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.87	33.17	3.23	80.0	± 9.6 %
		Y	100.00	126.61	32.79		80.0	
		Z	2.61	78.33	18.61		80.0	
10471-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	9.03	83.37	17.54	3.23	80.0	± 9.6 %
		Y	75.72	106.57	24.32		80.0	
		Z	0.70	60.00	7.66		80.0	
10472-AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.85	66.72	11.34	3.23	80.0	± 9.6 %
		Y	7.17	79.36	16.58		80.0	
		Z	0.72	60.00	6.99		80.0	
10473-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.83	33.15	3.23	80.0	± 9.6 %
		Y	100.00	126.57	32.77		80.0	
		Z	2.60	78.28	18.59		80.0	
10474-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.86	83.19	17.49	3.23	80.0	± 9.6 %
		Y	73.20	106.22	24.25		80.0	
		Z	0.70	60.00	7.66		80.0	
10475-AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.84	66.67	11.33	3.23	80.0	± 9.6 %
		Y	7.07	79.22	16.54		80.0	
		Z	0.72	60.00	6.99		80.0	

10477-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.55	81.52	16.98	3.23	80.0	± 9.6 %
		Y	56.45	103.26	23.54		80.0	
		Z	0.70	60.00	7.63		80.0	
10478-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.82	66.56	11.27	3.23	80.0	± 9.6 %
		Y	6.95	79.03	16.47		80.0	
		Z	0.72	60.00	6.98		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.99	93.23	25.61	3.23	80.0	± 9.6 %
		Y	9.79	90.18	24.96		80.0	
		Z	4.54	80.48	20.41		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	12.16	88.23	21.88	3.23	80.0	± 9.6 %
		Y	11.98	87.55	22.28		80.0	
		Z	2.88	70.37	14.48		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	8.71	82.91	19.80	3.23	80.0	± 9.6 %
		Y	9.82	84.02	20.80		80.0	
		Z	2.18	66.77	12.57		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.05	77.33	19.19	2.23	80.0	± 9.6 %
		Y	4.17	76.68	19.19		80.0	
		Z	2.07	68.66	14.58		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.93	75.57	17.70	2.23	80.0	± 9.6 %
		Y	6.34	78.50	19.36		80.0	
		Z	1.80	63.38	11.04		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.47	74.01	17.11	2.23	80.0	± 9.6 %
		Y	5.79	76.98	18.82		80.0	
		Z	1.76	62.89	10.79		80.0	
10485-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.05	77.49	20.34	2.23	80.0	± 9.6 %
		Y	4.20	76.76	20.09		80.0	
		Z	2.71	72.24	17.50		80.0	
10486-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.54	71.63	17.34	2.23	80.0	± 9.6 %
		Y	3.76	71.58	17.54		80.0	
		Z	2.51	67.51	14.60		80.0	
10487-AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.49	71.03	17.07	2.23	80.0	± 9.6 %
		Y	3.74	71.08	17.31		80.0	
		Z	2.49	67.04	14.35		80.0	
10488-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.92	74.84	20.03	2.23	80.0	± 9.6 %
		Y	4.21	74.77	19.87		80.0	
		Z	2.99	71.49	18.31		80.0	
10489-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.58	70.14	18.01	2.23	80.0	± 9.6 %
		Y	3.82	70.22	18.04		80.0	
		Z	3.03	68.36	16.75		80.0	
10490-AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.66	69.89	17.90	2.23	80.0	± 9.6 %
		Y	3.90	69.97	17.95		80.0	
		Z	3.10	68.21	16.67		80.0	
10491-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.00	72.50	19.16	2.23	80.0	± 9.6 %
		Y	4.28	72.62	19.08		80.0	
		Z	3.25	70.05	17.90		80.0	
10492-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.86	68.99	17.79	2.23	80.0	± 9.6 %
		Y	4.11	69.18	17.85		80.0	
		Z	3.37	67.61	16.86		80.0	

10493-AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.92	68.82	17.72	2.23	80.0	± 9.6 %
		Y	4.17	69.02	17.78		80.0	
		Z	3.43	67.50	16.80		80.0	
10494-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.43	74.41	19.78	2.23	80.0	± 9.6 %
		Y	4.75	74.52	19.68		80.0	
		Z	3.49	71.39	18.37		80.0	
10495-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.90	69.39	18.01	2.23	80.0	± 9.6 %
		Y	4.16	69.65	18.06		80.0	
		Z	3.39	67.86	17.06		80.0	
10496-AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.97	69.05	17.88	2.23	80.0	± 9.6 %
		Y	4.22	69.30	17.94		80.0	
		Z	3.47	67.65	16.99		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.87	72.14	16.05	2.23	80.0	± 9.6 %
		Y	3.23	72.92	16.83		80.0	
		Z	1.19	62.14	10.12		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.73	63.11	10.85	2.23	80.0	± 9.6 %
		Y	2.27	65.45	12.56		80.0	
		Z	1.15	60.00	7.68		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.65	62.30	10.28	2.23	80.0	± 9.6 %
		Y	2.18	64.69	12.05		80.0	
		Z	1.17	60.00	7.51		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.87	75.87	20.03	2.23	80.0	± 9.6 %
		Y	4.07	75.40	19.81		80.0	
		Z	2.80	71.83	17.80		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.57	71.05	17.60	2.23	80.0	± 9.6 %
		Y	3.78	70.97	17.70		80.0	
		Z	2.79	68.23	15.59		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.61	70.84	17.44	2.23	80.0	± 9.6 %
		Y	3.84	70.79	17.56		80.0	
		Z	2.82	68.03	15.41		80.0	
10503-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.87	74.62	19.92	2.23	80.0	± 9.6 %
		Y	4.15	74.55	19.77		80.0	
		Z	2.95	71.29	18.21		80.0	
10504-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.57	70.04	17.95	2.23	80.0	± 9.6 %
		Y	3.80	70.13	17.99		80.0	
		Z	3.01	68.26	16.69		80.0	
10505-AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.64	69.79	17.85	2.23	80.0	± 9.6 %
		Y	3.88	69.88	17.89		80.0	
		Z	3.09	68.12	16.62		80.0	
10506-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.39	74.26	19.71	2.23	80.0	± 9.6 %
		Y	4.71	74.37	19.61		80.0	
		Z	3.46	71.26	18.30		80.0	
10507-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.89	69.33	17.97	2.23	80.0	± 9.6 %
		Y	4.14	69.59	18.03		80.0	
		Z	3.38	67.80	17.02		80.0	

10508-AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.95	68.98	17.84	2.23	80.0	± 9.6 %
		Y	4.21	69.23	17.90		80.0	
		Z	3.46	67.59	16.95		80.0	
10509-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.62	72.40	18.91	2.23	80.0	± 9.6 %
		Y	4.92	72.59	18.86		80.0	
		Z	3.86	70.20	17.85		80.0	
10510-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.34	68.87	17.84	2.23	80.0	± 9.6 %
		Y	4.61	69.18	17.91		80.0	
		Z	3.85	67.53	17.06		80.0	
10511-AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.39	68.57	17.74	2.23	80.0	± 9.6 %
		Y	4.65	68.86	17.81		80.0	
		Z	3.92	67.35	17.00		80.0	
10512-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.95	74.43	19.59	2.23	80.0	± 9.6 %
		Y	5.29	74.60	19.52		80.0	
		Z	3.97	71.52	18.28		80.0	
10513-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.24	69.19	17.98	2.23	80.0	± 9.6 %
		Y	4.52	69.55	18.06		80.0	
		Z	3.73	67.67	17.13		80.0	
10514-AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.25	68.69	17.82	2.23	80.0	± 9.6 %
		Y	4.51	69.03	17.90		80.0	
		Z	3.78	67.33	17.02		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.99	63.46	15.00	0.00	150.0	± 9.6 %
		Y	0.98	62.78	14.45		150.0	
		Z	0.99	63.59	14.96		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.69	72.54	18.63	0.00	150.0	± 9.6 %
		Y	0.56	68.11	16.08		150.0	
		Z	0.67	72.15	18.45		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.85	65.62	15.80	0.00	150.0	± 9.6 %
		Y	0.82	64.42	14.91		150.0	
		Z	0.84	65.62	15.72		150.0	
10518-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.53	66.80	16.29	0.00	150.0	± 9.6 %
		Y	4.59	66.58	16.17		150.0	
		Z	4.39	66.94	16.26		150.0	
10519-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.71	67.02	16.40	0.00	150.0	± 9.6 %
		Y	4.78	66.84	16.30		150.0	
		Z	4.54	67.11	16.34		150.0	
10520-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.56	66.98	16.32	0.00	150.0	± 9.6 %
		Y	4.63	66.80	16.22		150.0	
		Z	4.40	67.05	16.26		150.0	
10521-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.49	66.97	16.31	0.00	150.0	± 9.6 %
		Y	4.56	66.79	16.20		150.0	
		Z	4.33	67.02	16.25		150.0	
10522-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.56	67.08	16.40	0.00	150.0	± 9.6 %
		Y	4.62	66.86	16.28		150.0	
		Z	4.38	67.14	16.34		150.0	

10523-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.44	66.96	16.26	0.00	150.0	± 9.6 %
		Y	4.50	66.72	16.12		150.0	
		Z	4.31	67.14	16.26		150.0	
10524-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.50	67.00	16.37	0.00	150.0	± 9.6 %
		Y	4.57	66.78	16.25		150.0	
		Z	4.33	67.10	16.33		150.0	
10525-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.49	66.06	15.96	0.00	150.0	± 9.6 %
		Y	4.54	65.82	15.83		150.0	
		Z	4.36	66.21	15.95		150.0	
10526-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.65	66.41	16.10	0.00	150.0	± 9.6 %
		Y	4.72	66.20	15.98		150.0	
		Z	4.49	66.49	16.07		150.0	
10527-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.58	66.37	16.05	0.00	150.0	± 9.6 %
		Y	4.64	66.16	15.92		150.0	
		Z	4.42	66.47	16.01		150.0	
10528-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.59	66.39	16.08	0.00	150.0	± 9.6 %
		Y	4.65	66.18	15.96		150.0	
		Z	4.43	66.48	16.04		150.0	
10529-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.59	66.39	16.08	0.00	150.0	± 9.6 %
		Y	4.65	66.18	15.96		150.0	
		Z	4.43	66.48	16.04		150.0	
10531-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.58	66.48	16.09	0.00	150.0	± 9.6 %
		Y	4.65	66.29	15.97		150.0	
		Z	4.40	66.51	16.02		150.0	
10532-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.44	66.34	16.02	0.00	150.0	± 9.6 %
		Y	4.51	66.14	15.90		150.0	
		Z	4.28	66.37	15.96		150.0	
10533-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.60	66.44	16.07	0.00	150.0	± 9.6 %
		Y	4.66	66.22	15.94		150.0	
		Z	4.44	66.56	16.05		150.0	
10534-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.13	66.46	16.12	0.00	150.0	± 9.6 %
		Y	5.19	66.32	16.03		150.0	
		Z	4.99	66.46	16.09		150.0	
10535-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.20	66.64	16.21	0.00	150.0	± 9.6 %
		Y	5.25	66.49	16.10		150.0	
		Z	5.03	66.59	16.15		150.0	
10536-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.07	66.60	16.17	0.00	150.0	± 9.6 %
		Y	5.12	66.44	16.06		150.0	
		Z	4.92	66.60	16.13		150.0	
10537-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.12	66.56	16.15	0.00	150.0	± 9.6 %
		Y	5.18	66.41	16.05		150.0	
		Z	4.98	66.58	16.13		150.0	
10538-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.21	66.56	16.19	0.00	150.0	± 9.6 %
		Y	5.28	66.45	16.11		150.0	
		Z	5.05	66.54	16.15		150.0	
10540-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.14	66.58	16.22	0.00	150.0	± 9.6 %
		Y	5.20	66.45	16.12		150.0	
		Z	4.98	66.51	16.15		150.0	

10541-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.12	66.46	16.14	0.00	150.0	± 9.6 %
		Y	5.18	66.32	16.05		150.0	
		Z	4.96	66.43	16.09		150.0	
10542-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.27	66.53	16.19	0.00	150.0	± 9.6 %
		Y	5.33	66.40	16.10		150.0	
		Z	5.12	66.52	16.15		150.0	
10543-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.34	66.55	16.23	0.00	150.0	± 9.6 %
		Y	5.41	66.44	16.14		150.0	
		Z	5.19	66.58	16.21		150.0	
10544-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.45	66.57	16.12	0.00	150.0	± 9.6 %
		Y	5.49	66.44	16.03		150.0	
		Z	5.33	66.54	16.08		150.0	
10545-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.64	66.98	16.28	0.00	150.0	± 9.6 %
		Y	5.69	66.86	16.18		150.0	
		Z	5.50	66.96	16.25		150.0	
10546-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.50	66.75	16.18	0.00	150.0	± 9.6 %
		Y	5.56	66.68	16.11		150.0	
		Z	5.36	66.66	16.11		150.0	
10547-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.57	66.80	16.19	0.00	150.0	± 9.6 %
		Y	5.64	66.72	16.12		150.0	
		Z	5.44	66.76	16.16		150.0	
10548-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.80	67.67	16.61	0.00	150.0	± 9.6 %
		Y	5.91	67.72	16.59		150.0	
		Z	5.58	67.38	16.44		150.0	
10550-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.54	66.80	16.21	0.00	150.0	± 9.6 %
		Y	5.59	66.67	16.11		150.0	
		Z	5.42	66.83	16.21		150.0	
10551-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.54	66.82	16.18	0.00	150.0	± 9.6 %
		Y	5.59	66.72	16.10		150.0	
		Z	5.36	66.63	16.07		150.0	
10552-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.46	66.64	16.10	0.00	150.0	± 9.6 %
		Y	5.51	66.51	16.00		150.0	
		Z	5.34	66.66	16.08		150.0	
10553-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.54	66.66	16.14	0.00	150.0	± 9.6 %
		Y	5.59	66.56	16.06		150.0	
		Z	5.39	66.61	16.09		150.0	
10554-AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.86	66.92	16.20	0.00	150.0	± 9.6 %
		Y	5.89	66.81	16.12		150.0	
		Z	5.75	66.87	16.15		150.0	
10555-AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.98	67.22	16.33	0.00	150.0	± 9.6 %
		Y	6.03	67.12	16.25		150.0	
		Z	5.84	67.10	16.25		150.0	
10556-AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.00	67.27	16.35	0.00	150.0	± 9.6 %
		Y	6.05	67.16	16.27		150.0	
		Z	5.88	67.20	16.30		150.0	
10557-AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.96	67.16	16.31	0.00	150.0	± 9.6 %
		Y	6.02	67.08	16.25		150.0	
		Z	5.84	67.08	16.25		150.0	

10558-AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.01	67.32	16.41	0.00	150.0	± 9.6 %
		Y	6.07	67.25	16.34		150.0	
		Z	5.85	67.15	16.31		150.0	
10560-AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.01	67.17	16.37	0.00	150.0	± 9.6 %
		Y	6.06	67.10	16.31		150.0	
		Z	5.87	67.07	16.30		150.0	
10561-AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.93	67.15	16.40	0.00	150.0	± 9.6 %
		Y	5.98	67.06	16.32		150.0	
		Z	5.80	67.05	16.32		150.0	
10562-AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.04	67.49	16.57	0.00	150.0	± 9.6 %
		Y	6.12	67.48	16.53		150.0	
		Z	5.85	67.23	16.41		150.0	
10563-AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.18	67.55	16.56	0.00	150.0	± 9.6 %
		Y	6.43	68.00	16.75		150.0	
		Z	5.95	67.17	16.35		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.86	66.88	16.45	0.46	150.0	± 9.6 %
		Y	4.92	66.69	16.36		150.0	
		Z	4.71	66.96	16.39		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.08	67.30	16.76	0.46	150.0	± 9.6 %
		Y	5.16	67.15	16.67		150.0	
		Z	4.90	67.36	16.69		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.91	67.15	16.58	0.46	150.0	± 9.6 %
		Y	4.99	67.00	16.50		150.0	
		Z	4.74	67.18	16.50		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.94	67.52	16.92	0.46	150.0	± 9.6 %
		Y	5.01	67.38	16.84		150.0	
		Z	4.77	67.57	16.87		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.83	66.96	16.38	0.46	150.0	± 9.6 %
		Y	4.90	66.77	16.27		150.0	
		Z	4.63	66.92	16.25		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.90	67.63	17.00	0.46	150.0	± 9.6 %
		Y	4.96	67.44	16.88		150.0	
		Z	4.75	67.78	17.00		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.93	67.48	16.92	0.46	150.0	± 9.6 %
		Y	5.00	67.29	16.82		150.0	
		Z	4.76	67.58	16.89		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.18	64.69	15.93	0.46	130.0	± 9.6 %
		Y	1.20	64.37	15.58		130.0	
		Z	1.13	64.22	15.49		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.19	65.27	16.29	0.46	130.0	± 9.6 %
		Y	1.21	64.91	15.92		130.0	
		Z	1.14	64.74	15.83		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	2.77	92.16	26.12	0.46	130.0	± 9.6 %
		Y	1.86	83.27	22.47		130.0	
		Z	1.57	83.20	23.00		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.31	71.26	19.39	0.46	130.0	± 9.6 %
		Y	1.31	70.26	18.63		130.0	
		Z	1.20	70.00	18.67		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.64	66.67	16.51	0.46	130.0	± 9.6 %
		Y	4.71	66.50	16.43		130.0	
		Z	4.47	66.69	16.39		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.66	66.83	16.58	0.46	130.0	± 9.6 %
		Y	4.73	66.66	16.49		130.0	
		Z	4.50	66.89	16.47		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.86	67.11	16.74	0.46	130.0	± 9.6 %
		Y	4.94	66.97	16.66		130.0	
		Z	4.67	67.12	16.61		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	67.25	16.83	0.46	130.0	± 9.6 %
		Y	4.84	67.12	16.76		130.0	
		Z	4.57	67.26	16.72		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	66.57	16.17	0.46	130.0	± 9.6 %
		Y	4.61	66.44	16.10		130.0	
		Z	4.33	66.48	15.99		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.57	66.63	16.21	0.46	130.0	± 9.6 %
		Y	4.66	66.47	16.12		130.0	
		Z	4.36	66.53	16.01		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.65	67.30	16.78	0.46	130.0	± 9.6 %
		Y	4.73	67.15	16.70		130.0	
		Z	4.48	67.34	16.69		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.47	66.35	15.97	0.46	130.0	± 9.6 %
		Y	4.56	66.21	15.89		130.0	
		Z	4.26	66.25	15.78		130.0	
10583-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.64	66.67	16.51	0.46	130.0	± 9.6 %
		Y	4.71	66.50	16.43		130.0	
		Z	4.47	66.69	16.39		130.0	
10584-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.66	66.83	16.58	0.46	130.0	± 9.6 %
		Y	4.73	66.66	16.49		130.0	
		Z	4.50	66.89	16.47		130.0	
10585-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.86	67.11	16.74	0.46	130.0	± 9.6 %
		Y	4.94	66.97	16.66		130.0	
		Z	4.67	67.12	16.61		130.0	
10586-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	67.25	16.83	0.46	130.0	± 9.6 %
		Y	4.84	67.12	16.76		130.0	
		Z	4.57	67.26	16.72		130.0	
10587-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	66.57	16.17	0.46	130.0	± 9.6 %
		Y	4.61	66.44	16.10		130.0	
		Z	4.33	66.48	15.99		130.0	
10588-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.57	66.63	16.21	0.46	130.0	± 9.6 %
		Y	4.66	66.47	16.12		130.0	
		Z	4.36	66.53	16.01		130.0	
10589-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.65	67.30	16.78	0.46	130.0	± 9.6 %
		Y	4.73	67.15	16.70		130.0	
		Z	4.48	67.34	16.69		130.0	
10590-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.47	66.35	15.97	0.46	130.0	± 9.6 %
		Y	4.56	66.21	15.89		130.0	
		Z	4.26	66.25	15.78		130.0	

10591-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.79	66.72	16.61	0.46	130.0	± 9.6 %
		Y	4.86	66.57	16.53		130.0	
		Z	4.63	66.78	16.50		130.0	
10592-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.94	67.05	16.74	0.46	130.0	± 9.6 %
		Y	5.02	66.91	16.66		130.0	
		Z	4.75	67.07	16.63		130.0	
10593-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.86	66.96	16.62	0.46	130.0	± 9.6 %
		Y	4.94	66.83	16.55		130.0	
		Z	4.67	66.95	16.49		130.0	
10594-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.91	67.12	16.77	0.46	130.0	± 9.6 %
		Y	5.00	66.98	16.70		130.0	
		Z	4.72	67.12	16.65		130.0	
10595-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.88	67.08	16.67	0.46	130.0	± 9.6 %
		Y	4.96	66.94	16.59		130.0	
		Z	4.69	67.10	16.56		130.0	
10596-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.82	67.08	16.68	0.46	130.0	± 9.6 %
		Y	4.90	66.94	16.60		130.0	
		Z	4.62	67.07	16.55		130.0	
10597-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.77	66.98	16.56	0.46	130.0	± 9.6 %
		Y	4.85	66.85	16.49		130.0	
		Z	4.57	66.94	16.41		130.0	
10598-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.75	67.19	16.80	0.46	130.0	± 9.6 %
		Y	4.83	67.08	16.74		130.0	
		Z	4.56	67.16	16.67		130.0	
10599-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.46	67.23	16.81	0.46	130.0	± 9.6 %
		Y	5.53	67.13	16.74		130.0	
		Z	5.31	67.22	16.74		130.0	
10600-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.59	67.67	17.00	0.46	130.0	± 9.6 %
		Y	5.69	67.62	16.95		130.0	
		Z	5.40	67.56	16.88		130.0	
10601-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.48	67.41	16.88	0.46	130.0	± 9.6 %
		Y	5.56	67.33	16.83		130.0	
		Z	5.31	67.36	16.79		130.0	
10602-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.59	67.49	16.85	0.46	130.0	± 9.6 %
		Y	5.65	67.34	16.75		130.0	
		Z	5.41	67.42	16.75		130.0	
10603-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.65	67.74	17.10	0.46	130.0	± 9.6 %
		Y	5.74	67.66	17.04		130.0	
		Z	5.48	67.71	17.02		130.0	
10604-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.49	67.31	16.87	0.46	130.0	± 9.6 %
		Y	5.53	67.10	16.74		130.0	
		Z	5.37	67.37	16.83		130.0	
10605-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.58	67.57	17.01	0.46	130.0	± 9.6 %
		Y	5.65	67.44	16.92		130.0	
		Z	5.40	67.46	16.88		130.0	
10606-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.32	66.88	16.52	0.46	130.0	± 9.6 %
		Y	5.42	66.88	16.50		130.0	
		Z	5.18	66.90	16.45		130.0	

10607-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.63	66.06	16.24	0.46	130.0	± 9.6 %
		Y	4.69	65.87	16.14		130.0	
		Z	4.48	66.14	16.16		130.0	
10608-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.81	66.46	16.41	0.46	130.0	± 9.6 %
		Y	4.89	66.28	16.31		130.0	
		Z	4.62	66.47	16.30		130.0	
10609-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.70	66.31	16.25	0.46	130.0	± 9.6 %
		Y	4.78	66.14	16.15		130.0	
		Z	4.52	66.31	16.13		130.0	
10610-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.75	66.46	16.40	0.46	130.0	± 9.6 %
		Y	4.83	66.29	16.31		130.0	
		Z	4.57	66.47	16.29		130.0	
10611-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.67	66.27	16.25	0.46	130.0	± 9.6 %
		Y	4.74	66.11	16.17		130.0	
		Z	4.48	66.27	16.14		130.0	
10612-AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.68	66.43	16.31	0.46	130.0	± 9.6 %
		Y	4.76	66.26	16.21		130.0	
		Z	4.47	66.40	16.18		130.0	
10613-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.68	66.30	16.19	0.46	130.0	± 9.6 %
		Y	4.76	66.16	16.10		130.0	
		Z	4.47	66.22	16.03		130.0	
10614-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.62	66.47	16.40	0.46	130.0	± 9.6 %
		Y	4.70	66.33	16.32		130.0	
		Z	4.44	66.44	16.27		130.0	
10615-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.67	66.12	16.05	0.46	130.0	± 9.6 %
		Y	4.75	65.95	15.95		130.0	
		Z	4.48	66.11	15.92		130.0	
10616-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.28	66.50	16.42	0.46	130.0	± 9.6 %
		Y	5.35	66.40	16.35		130.0	
		Z	5.12	66.44	16.33		130.0	
10617-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.35	66.70	16.50	0.46	130.0	± 9.6 %
		Y	5.42	66.55	16.40		130.0	
		Z	5.16	66.57	16.37		130.0	
10618-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.24	66.70	16.51	0.46	130.0	± 9.6 %
		Y	5.30	66.57	16.42		130.0	
		Z	5.08	66.64	16.42		130.0	
10619-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.25	66.50	16.35	0.46	130.0	± 9.6 %
		Y	5.33	66.41	16.28		130.0	
		Z	5.09	66.45	16.26		130.0	
10620-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.34	66.53	16.41	0.46	130.0	± 9.6 %
		Y	5.42	66.46	16.35		130.0	
		Z	5.16	66.45	16.31		130.0	
10621-AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.34	66.65	16.59	0.46	130.0	± 9.6 %
		Y	5.41	66.55	16.51		130.0	
		Z	5.17	66.56	16.48		130.0	
10622-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.35	66.81	16.66	0.46	130.0	± 9.6 %
		Y	5.42	66.71	16.59		130.0	
		Z	5.16	66.65	16.52		130.0	

10623-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.23	66.36	16.32	0.46	130.0	± 9.6 %
		Y	5.30	66.25	16.24		130.0	
		Z	5.05	66.22	16.17		130.0	
10624-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.42	66.55	16.47	0.46	130.0	± 9.6 %
		Y	5.50	66.45	16.40		130.0	
		Z	5.25	66.47	16.36		130.0	
10625-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.75	67.41	16.95	0.46	130.0	± 9.6 %
		Y	5.89	67.51	16.98		130.0	
		Z	5.34	66.63	16.50		130.0	
10626-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.59	66.56	16.38	0.46	130.0	± 9.6 %
		Y	5.64	66.46	16.31		130.0	
		Z	5.45	66.47	16.28		130.0	
10627-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.82	67.13	16.63	0.46	130.0	± 9.6 %
		Y	5.88	67.03	16.55		130.0	
		Z	5.67	67.05	16.54		130.0	
10628-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.61	66.64	16.32	0.46	130.0	± 9.6 %
		Y	5.68	66.59	16.27		130.0	
		Z	5.44	66.46	16.18		130.0	
10629-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.69	66.69	16.34	0.46	130.0	± 9.6 %
		Y	5.78	66.69	16.31		130.0	
		Z	5.54	66.62	16.26		130.0	
10630-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.09	68.10	17.05	0.46	130.0	± 9.6 %
		Y	6.25	68.29	17.11		130.0	
		Z	5.78	67.54	16.72		130.0	
10631-AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.99	67.90	17.13	0.46	130.0	± 9.6 %
		Y	6.12	67.99	17.15		130.0	
		Z	5.75	67.56	16.92		130.0	
10632-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.79	67.18	16.78	0.46	130.0	± 9.6 %
		Y	5.85	67.07	16.70		130.0	
		Z	5.67	67.21	16.76		130.0	
10633-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.68	66.80	16.43	0.46	130.0	± 9.6 %
		Y	5.74	66.74	16.37		130.0	
		Z	5.48	66.57	16.27		130.0	
10634-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.66	66.82	16.49	0.46	130.0	± 9.6 %
		Y	5.73	66.76	16.44		130.0	
		Z	5.50	66.72	16.40		130.0	
10635-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.54	66.19	15.93	0.46	130.0	± 9.6 %
		Y	5.62	66.14	15.87		130.0	
		Z	5.36	66.00	15.77		130.0	
10636-AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.00	66.92	16.46	0.46	130.0	± 9.6 %
		Y	6.05	66.85	16.41		130.0	
		Z	5.88	66.82	16.36		130.0	
10637-AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.16	67.31	16.64	0.46	130.0	± 9.6 %
		Y	6.21	67.23	16.58		130.0	
		Z	6.00	67.12	16.50		130.0	
10638-AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.16	67.28	16.60	0.46	130.0	± 9.6 %
		Y	6.21	67.20	16.54		130.0	
		Z	6.02	67.18	16.51		130.0	

10639-AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.13	67.21	16.61	0.46	130.0	± 9.6 %
		Y	6.20	67.17	16.57		130.0	
		Z	5.98	67.06	16.49		130.0	
10640-AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.13	67.23	16.57	0.46	130.0	± 9.6 %
		Y	6.21	67.21	16.53		130.0	
		Z	5.95	66.98	16.40		130.0	
10641-AAB	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.19	67.17	16.55	0.46	130.0	± 9.6 %
		Y	6.24	67.06	16.48		130.0	
		Z	6.04	67.04	16.44		130.0	
10642-AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.22	67.37	16.82	0.46	130.0	± 9.6 %
		Y	6.28	67.33	16.77		130.0	
		Z	6.06	67.23	16.70		130.0	
10643-AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.06	67.09	16.58	0.46	130.0	± 9.6 %
		Y	6.12	67.02	16.52		130.0	
		Z	5.91	66.93	16.45		130.0	
10644-AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.20	67.52	16.82	0.46	130.0	± 9.6 %
		Y	6.31	67.59	16.83		130.0	
		Z	5.97	67.13	16.57		130.0	
10645-AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.41	67.77	16.91	0.46	130.0	± 9.6 %
		Y	6.76	68.49	17.23		130.0	
		Z	6.10	67.18	16.56		130.0	
10646-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	32.54	128.38	44.23	9.30	60.0	± 9.6 %
		Y	33.21	124.21	42.28		60.0	
		Z	8.58	97.27	34.21		60.0	
10647-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	24.86	122.50	42.74	9.30	60.0	± 9.6 %
		Y	27.83	120.75	41.46		60.0	
		Z	7.33	94.04	33.20		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.71	63.99	11.07	0.00	150.0	± 9.6 %
		Y	0.72	63.38	11.01		150.0	
		Z	0.57	62.72	9.40		150.0	
10652-AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.64	67.29	16.91	2.23	80.0	± 9.6 %
		Y	3.79	67.25	16.93		80.0	
		Z	3.31	66.63	16.20		80.0	
10653-AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.13	66.44	16.95	2.23	80.0	± 9.6 %
		Y	4.30	66.53	16.99		80.0	
		Z	3.84	65.89	16.44		80.0	
10654-AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.11	66.04	16.93	2.23	80.0	± 9.6 %
		Y	4.26	66.17	16.97		80.0	
		Z	3.86	65.50	16.46		80.0	
10655-AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.17	66.02	16.96	2.23	80.0	± 9.6 %
		Y	4.32	66.18	17.01		80.0	
		Z	3.93	65.42	16.50		80.0	

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	750	750	835	835	1750	1750	1900	1900	2300-2600	2300-2600	5200-5800	5200-5800
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Ingredients (% by weight)												
Bactericide	See page 2-3	See page 2	0.1	0.1					See page 4		See page 5	
DGBE					47	31	44.92	29.44		26.7		
HEC			1	1								
NaCl			1.45	0.94	0.4	0.2	0.18	0.39		0.1		
Sucrose			57	44.9								20
Polysorbate (Tween) 80												
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2		80

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2 Composition / Information on ingredients

The Item is composed of the following ingredients:

H ₂ O	Water, 35 – 58%
Sucrose	Sugar, white, refined, 40 – 60%
NaCl	Sodium Chloride, 0 – 6%
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1 – 0.7%
Relevant for safety; Refer to the respective Safety Data Sheet*.	

Figure D-1
Composition of 750 MHz Head and Body Tissue Equivalent Matter

Note: 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

Schmid & Partner Engineering AG

s p e a g

Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 44 245 9700, Fax +41 44 245 9779
info@speag.com, http://www.speag.com

Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MSL750V2)
Product No.	SL AAM 075 AA (Batch: 170608-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within $\pm 2.5\%$ towards the target values of Methanol.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

Ambient	Environment temperatur (22 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Jun-17
Operator	CL

Additional Information

TSL Density	1.212 g/cm ³
TSL Heat-capacity	3.006 kJ/(kg·K)

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
600	57.3	25.02	0.84	56.1	0.95	2.2	-12.2
625	57.1	24.67	0.86	56.0	0.95	1.9	-10.1
650	56.8	24.32	0.88	55.9	0.96	1.6	-8.0
675	56.6	24.02	0.90	55.8	0.96	1.3	-5.8
700	56.3	23.71	0.92	55.7	0.96	1.1	-3.8
725	56.1	23.48	0.95	55.6	0.96	0.8	-1.5
750	55.9	23.25	0.97	55.5	0.96	0.6	0.7
775	55.6	23.04	0.99	55.4	0.97	0.3	2.9
800	55.4	22.82	1.02	55.3	0.97	0.1	5.0
825	55.2	22.65	1.04	55.2	0.98	-0.1	6.3
838	55.1	22.56	1.05	55.2	0.98	-0.3	6.9
850	54.9	22.47	1.06	55.2	0.99	-0.4	7.5
875	54.7	22.34	1.09	55.1	1.02	-0.7	6.7
900	54.5	22.21	1.11	55.0	1.05	-0.9	5.9
925	54.3	22.08	1.14	55.0	1.06	-1.3	6.9
950	54.1	21.95	1.16	54.9	1.08	-1.6	7.9
975	53.8	21.86	1.19	54.9	1.09	-1.9	9.1
1000	53.6	21.76	1.21	54.8	1.10	-2.2	10.2

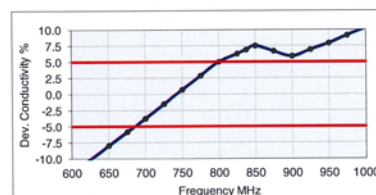
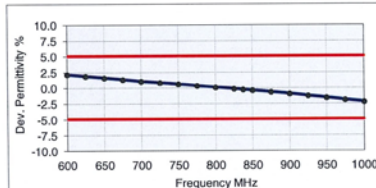


Figure D-2
750MHz Body Tissue Equivalent Matter

FCC ID: ZNFV350A		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 04/06/18 - 04/18/18	DUT Type: Portable Handset	APPENDIX D: Page 2 of 5		

Measurement Certificate / Material Test

Item Name **Head Tissue Simulating Liquid (HSL750V2)**
 Product No. SL AAH 075 AA (Batch: 170612-4)
 Manufacturer **SPEAG**

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within $\pm 2.5\%$ towards the target values of Methanol.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

Ambient Environment temperatur ($22 \pm 3^\circ\text{C}$ and humidity $< 70\%$).
 TSL Temperature 22°C
 Test Date 20-Jun-17
 Operator CL

Additional Information

TSL Density 1.284 g/cm^3
 TSL Heat-capacity $2.701 \text{ kJ/(kg}^\circ\text{K)}$

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	$\Delta\text{-eps}$	$\Delta\text{-sigma}$
600	45.6	22.97	0.77	42.7	0.88	6.7	-13.1
625	45.2	22.73	0.79	42.6	0.88	6.2	-10.6
650	44.9	22.49	0.81	42.5	0.89	5.6	-8.2
675	44.5	22.27	0.84	42.3	0.89	5.1	-5.8
700	44.2	22.05	0.86	42.2	0.89	4.6	-3.5
725	43.8	21.88	0.88	42.1	0.89	4.2	-1.0
750	43.5	21.72	0.91	41.9	0.89	3.8	1.4
775	43.2	21.55	0.93	41.8	0.90	3.4	3.7
800	42.9	21.38	0.95	41.7	0.90	2.9	6.0
825	42.6	21.24	0.97	41.6	0.91	2.4	7.5
838	42.5	21.17	0.99	41.5	0.91	2.2	8.2
850	42.3	21.09	1.00	41.5	0.92	2.0	8.9
875	42.0	20.98	1.02	41.5	0.94	1.2	8.3
900	41.7	20.87	1.05	41.5	0.97	0.5	7.7
925	41.5	20.76	1.07	41.5	0.98	0.0	8.7
950	41.2	20.64	1.09	41.4	0.99	-0.6	9.7
975	40.9	20.55	1.11	41.4	1.00	-1.1	10.9
1000	40.6	20.46	1.14	41.3	1.01	-1.7	12.1

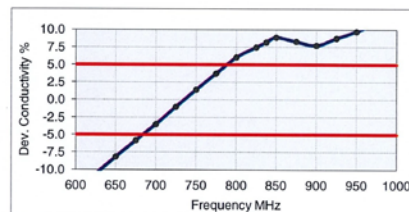
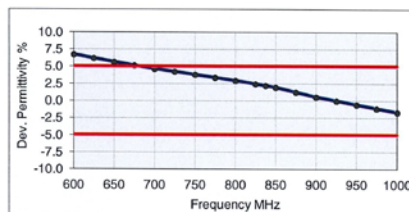


Figure D-3
750MHz Head Tissue Equivalent Matter

FCC ID: ZNFV350A		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 04/06/18 - 04/18/18	DUT Type: Portable Handset			APPENDIX D: Page 3 of 5

3 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	50 – 73 %	
Non-ionic detergents	25 – 50 %	polyoxyethylenesorbitan monolaurate
NaCl	0 – 2 %	
Preservative	0.05 – 0.1 %	Preventol-D7

Safety relevant ingredients:

CAS-No. 55965-84-9	< 0.1 %	aqueous preparation, containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone
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CAS-No. 9005-64-5	< 50 %	polyoxyethylenesorbitan monolaurate
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According to international guidelines, the product is not a dangerous mixture and therefore not required to be marked by symbols.

Figure D-4
Composition of 2.3-2.6 GHz Head Tissue Equivalent Matter

Note: 2.3-2.6 GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

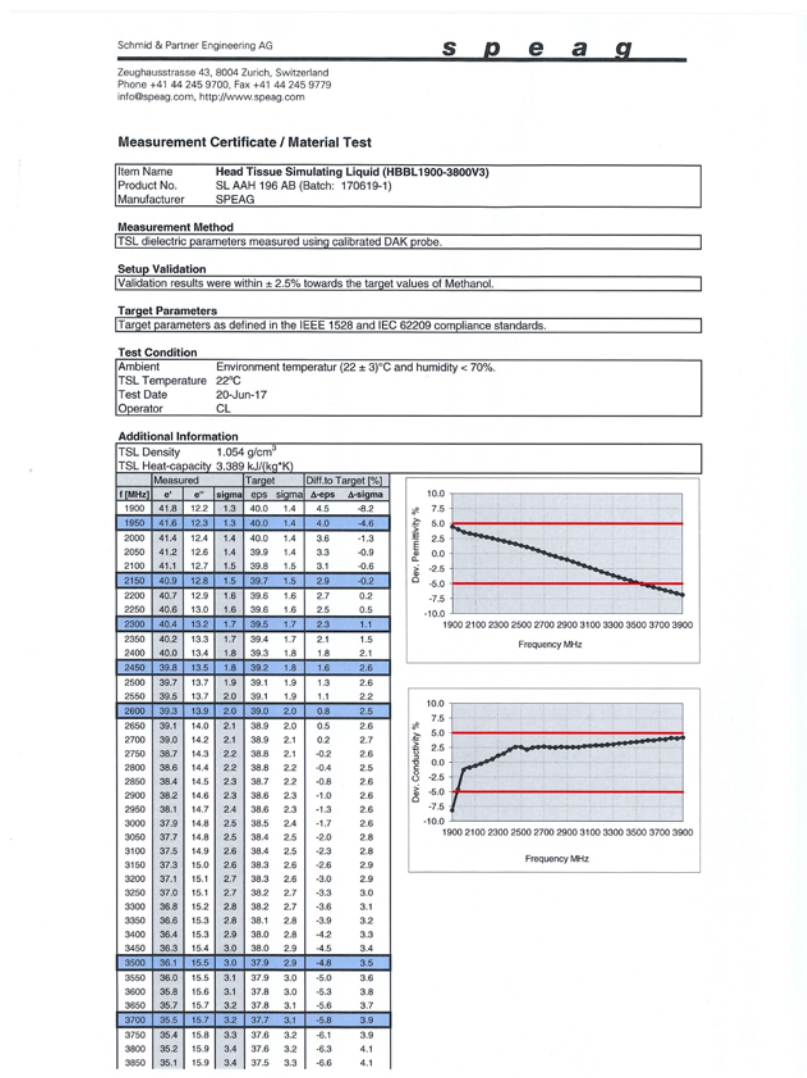


Figure D-5
2.3-2.6 GHz Head Tissue Equivalent Matter

FCC ID: ZNFV350A	 PCTEST Engineering Laboratory, Inc.	SAR EVALUATION REPORT	 LG	Approved by: Quality Manager
Test Dates: 04/06/18 - 04/18/18	DUT Type: Portable Handset	APPENDIX D: Page 4 of 5		

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water	50 – 65%
Mineral oil	10 – 30%
Emulsifiers	8 – 25%
Sodium salt	0 – 1.5%

Figure D-6

Composition of 5 GHz Head Tissue Equivalent Matter

Note: 5GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

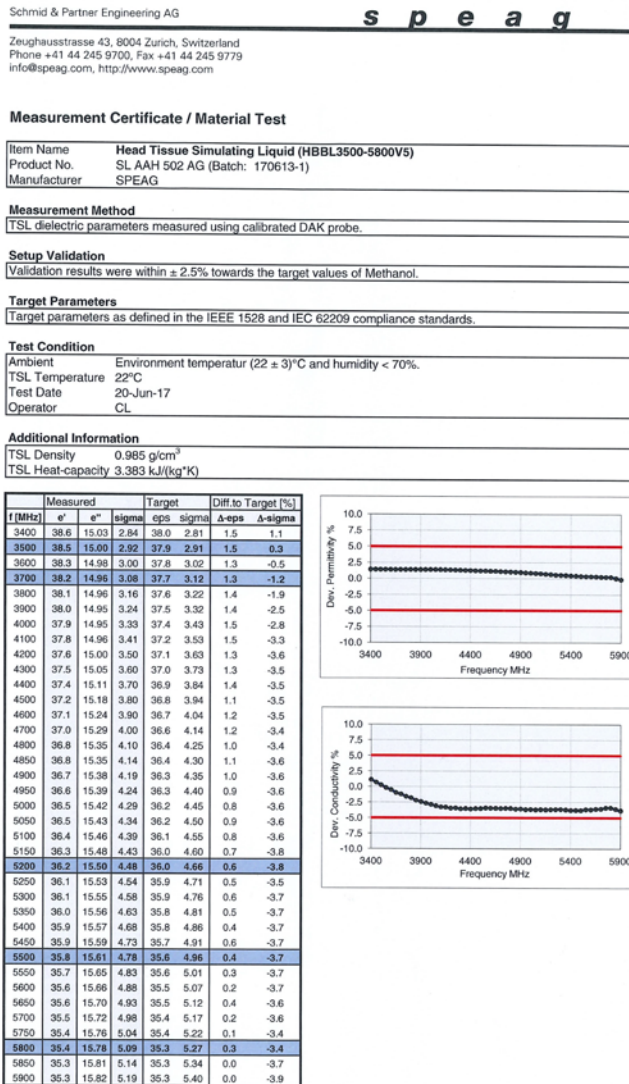


Figure D-7
5GHz Head Tissue Equivalent Matter

FCC ID: ZNFV350A		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 04/06/18 - 04/18/18	DUT Type: Portable Handset			APPENDIX D: Page 5 of 5

APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT		COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
							(σ)	(ε)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
J	750	4/12/2018	3914	ES3DV3	750	Head	0.904	41.090	PASS	PASS	PASS	N/A	N/A	N/A
E	835	3/5/2018	3213	ES3DV3	835	Head	0.925	43.335	PASS	PASS	PASS	GMSK	PASS	N/A
G	835	10/16/2017	3332	ES3DV3	835	Head	0.898	40.860	PASS	PASS	PASS	GMSK	PASS	N/A
J	1750	3/13/2018	3914	EX3DV4	1750	Head	1.404	39.175	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	3/15/2018	3914	EX3DV4	1900	Head	1.439	39.507	PASS	PASS	PASS	GMSK	PASS	N/A
G	2300	10/16/2017	3332	ES3DV3	2300	Head	1.715	39.101	PASS	PASS	PASS	N/A	N/A	N/A
G	2450	10/16/2017	3332	ES3DV3	2450	Head	1.880	38.615	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2600	10/16/2017	3332	ES3DV3	2600	Head	2.051	38.039	PASS	PASS	PASS	TDD	PASS	N/A
H	5250	1/31/2018	3589	EX3DV4	5250	Head	4.516	36.066	PASS	PASS	PASS	OFDM	N/A	PASS
H	5600	1/31/2018	3589	EX3DV4	5600	Head	4.869	35.597	PASS	PASS	PASS	OFDM	N/A	PASS
H	5750	1/31/2018	3589	EX3DV4	5750	Head	5.112	35.351	PASS	PASS	PASS	OFDM	N/A	PASS
E	750	4/14/2018	3213	ES3DV3	750	Body	0.977	53.125	PASS	PASS	PASS	N/A	N/A	N/A
E	835	3/16/2018	3213	ES3DV3	835	Body	0.968	53.713	PASS	PASS	PASS	GMSK	PASS	N/A
I	1750	3/12/2018	3287	ES3DV3	1750	Body	1.462	52.350	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	3/9/2018	3914	EX3DV4	1900	Body	1.533	53.731	PASS	PASS	PASS	GMSK	PASS	N/A
K	2300	4/3/2018	3319	ES3DV3	2300	Body	1.871	51.575	PASS	PASS	PASS	N/A	N/A	N/A
K	2450	4/3/2018	3319	ES3DV3	2450	Body	2.043	51.130	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K	2600	4/3/2018	3319	ES3DV3	2600	Body	2.225	50.665	PASS	PASS	PASS	TDD	PASS	N/A
H	2450	9/7/2017	7410	EX3DV4	2450	Body	2.043	51.520	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H	2600	9/6/2017	7410	EX3DV4	2600	Body	2.250	50.923	PASS	PASS	PASS	TDD	PASS	N/A
D	5250	10/24/2017	7308	EX3DV4	5250	Body	5.405	48.529	PASS	PASS	PASS	OFDM	N/A	PASS
D	5600	10/24/2017	7308	EX3DV4	5600	Body	5.910	47.818	PASS	PASS	PASS	OFDM	N/A	PASS
D	5750	10/24/2017	7308	EX3DV4	5750	Body	6.135	47.546	PASS	PASS	PASS	OFDM	N/A	PASS

Table E-2
SAR System Validation Summary – 10g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT		COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
							(σ)	(ε)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
D	5250	10/24/2017	7308	EX3DV4	5250	Body	5.405	48.529	PASS	PASS	PASS	OFDM	N/A	PASS
D	5600	10/24/2017	7308	EX3DV4	5600	Body	5.910	47.818	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

G.2 WIFI Verification Summary

Table G-1
Power Measurement Verification WIFI

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
		Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	802.11b	19.29	15.26
Held-to-Ear	802.11g	16.81	14.48
Held-to-Ear	802.11n (2.4GHz)	15.76	14.54

Note: 802.11ac was not measured due to equipment limitation.

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APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per FCC Guidance, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

Table 1 – Example of Exclusion Table for SISO Configurations

[illegible]

Table 2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations

2CC						Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset	3CC						Restriction	Completely Covered by Measurement Superset	4CC						Restriction	Completely Covered by Measurement Superset
Index	2CC	CC1	CC2	CC3	CC4	Index	3CC			CC1	CC2	CC3	CC4	Index	4CC			CC1	CC2	CC3	CC4				
2CC #001	CA [21]	5, 10, 15, 20	5, 10, 15, 20			2CC #006		3CC #001	CA [21]-2A-6A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	4CC #001	CA [21]-8B-66A	5, 10, 15, 20	5, 10	5, 10	5, 10, 15, 20	No					
2CC #002	CA [21]-2A	5, 10, 15, 20	5, 10, 15, 20			2CC #001	2CC #001	3CC #002	CA [21]-2A-6A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	4CC #002	CA [21]-8B-66A	5, 10, 15, 20	5, 10	5, 10	5, 10, 15, 20	No					
2CC #003	CA [21]-2A [21]	5, 10, 15, 20	5, 10, 15, 20	No			2CC #003	CA [21]-2A [21]-2A	5, 10, 15, 20	5, 10, 15, 20	5, 10	5, 10	No	4CC #003	CA [21]-8A-66B	5, 10, 15, 20	5, 10	5, 10, 15	5, 10, 15, 20	No					
2CC #004	CA [21]-4A [47]	5, 10, 15, 20	5, 10, 15, 20			2CC #001		3CC #004	CA [21]-2A [21]-3A	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	4CC #004	CA [21]-8A [47]	5, 10, 15, 20	5, 10	5, 10, 15	5, 10, 15, 20	No					
2CC #005	CA [21]-4A [47] [7]	5, 10, 15, 20	5, 10, 15, 20				2CC #005	CA [21]-2A [21]-3A [7]	5, 10, 15, 20	5, 10, 15, 20	5, 10	No	4CC #005	CA [21]-8A [47]	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No						
2CC #006	CA [21]-5A	5, 10, 15, 20	5, 10	2CC #003			2CC #006	CA [21]-6A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No	4CC #006	CA [21]-8A [66C]	5, 10, 15, 20	5, 10	5, 10, 15, 20	5, 10, 15, 20	No						
2CC #007	CA [21]-12A [1]	5, 10, 15, 20	5, 10				2CC #007	2CC #006	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
2CC #008	CA [21]-13A	5, 10, 15, 20	10	2CC #004			2CC #008	CA [21]-6A [66C]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
2CC #009	CA [21]-17A	5, 10	5, 10	No			2CC #009	CA [21]-2A [66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
2CC #010	CA [21]-29A [7]	5, 10, 15, 20	5, 10	B29 SCC Only	2CC #012		2CC #010	CA [21]-6A [66C]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
2CC #011	CA [21]-33A	5, 10	5, 10				2CC #011	CA [21]-2A [71A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
2CC #012	CA [21]-66A [2]	5, 10, 15, 20	5, 10, 15, 20	2CC #001			2CC #012	CA [21]-4A [29A]	5, 10, 15, 20	5, 10, 15, 20	5, 10	B29 SCC Only													
2CC #013	CA [21]-66A [2] [7]	5, 10, 15, 20	5, 10, 15, 20	2CC #001	2CC #012		2CC #013	CA [21]-4A [71A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
2CC #014	CA [21]-66A [2] [7] [7]	5, 10, 15, 20	5, 10, 15, 20	No			2CC #014	CA [21]-6A [66C]	5, 10, 15, 20	5, 10	5, 10	2CC #001													
2CC #015	CA [21]-71A	5, 10, 15, 20	5, 10, 15, 20	2CC #011			2CC #015	CA [21]-5A [66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	No													
2CC #016	CA [21]-66A	5, 10	5, 10, 15, 20	2CC #016			2CC #016	CA [21]-5A [66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	No													
2CC #017	CA [21]-66A [4]	5, 10	5, 10, 15, 20	2CC #017			2CC #017	CA [21]-13A [66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	No													
2CC #018	CA [13A]-66A	5, 10	5, 10, 15, 20	2CC #018			2CC #018	CA [21]-13A [66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	No													
2CC #019	CA [30A]-66A	5, 10	5, 10, 15, 20	2CC #019			2CC #019	CA [21]-3A [66A]	5, 10, 15, 20	5, 10	5, 10, 15, 20	No													
2CC #020	CA [15A]-66B	5, 10, 15	5, 10, 15	2CC #020			2CC #020	CA [21]-3A [66B]	5, 10, 15, 20	5, 10	5, 10, 15, 20	No													
2CC #021	CA [16C]	5, 10, 15, 20	5, 10, 15, 20	2CC #006			2CC #021	CA [21]-6B	5, 10, 15, 20	5, 10, 15	6, 10, 15	2CC #003													
2CC #022	CA [66A]-66A	5, 10, 15, 20	5, 10, 15, 20	2CC #028			2CC #022	CA [21]-6C	5, 10, 15, 20	5, 10, 15	5, 10, 15	2CC #004													
2CC #023	CA [66A]-66B	5, 10, 15, 20	5, 10, 15, 20	No			2CC #023	CA [21]-6B [66C]	5, 10, 15, 20	5, 10, 15	5, 10, 15	2CC #001													
							2CC #024	CA [21]-6B	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	2CC #005													
							2CC #025	CA [21]-6C [66C]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	2CC #006													
							2CC #026	CA [21]-6C	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
							2CC #027	CA [21]-6A [66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
							2CC #028	CA [21]-6A [66A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													
							2CC #029	CA [21]-6B [71A]	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	No													

Note: [CC] indicates component carrier with 4x4 DL MIMO antenna configuration

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1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by FCC Guidance, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.
- When a device supports LTE capabilities with overlapping transmission frequency ranges, the standalone powers from the band with a larger transmission frequency range can be used to select measurement configurations for the band with the fully covered transmission frequency range.

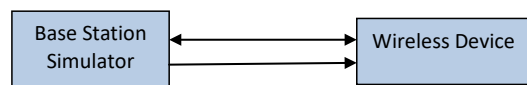


Figure 1
SISO CA Power Measurement Setup

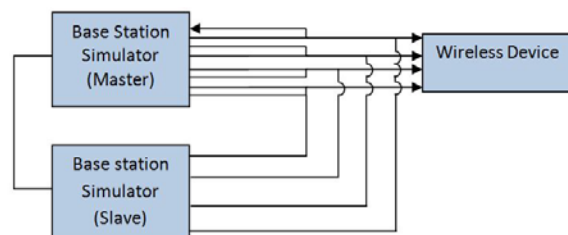


Figure 2
4x4 DL MIMO CA Power Measurement Setup

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1.3 SISO Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 12 as PCC

Table 1
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC				PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC 1			SCC 2			SCC 3			Power				
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset			SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 12A-25A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	25.45	25.50		
CA 12A-66A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	25.44	25.50		
CA 12A-66A (2)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	25.44	25.50		
CA 2A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	25.46	25.50		
CA 4A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	25.42	25.50		
CA 4A-12A (2)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	25.42	25.50		
CA 4A-12B	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	-	-	25.25	25.36		
CA 12A-30A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	25.45	25.50
CA 2A-12A-30A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	25.33	25.50
CA 2A-12A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	25.45	25.50
CA 2A-12A-66C	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	25.38	25.50
CA 2A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	25.37	25.50
CA 2A-2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	25.35	25.50
CA 2A-2A-12B	LTE B12	5	23035	701.5	QPSK	1	0	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	25.27	25.36
CA 2A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	25.32	25.50
CA 2A-4A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	25.33	25.50
CA 4A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	25.36	25.50
CA 2A-4A-7A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	25.32	25.50

1.3.2 LTE Band 17 as PCC

Table 2
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			Power	
										SCC Band	SCC BW [MHz]	SCC (DL) Channel	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-17A	LTE B17	10	23790	710	QPSK	1	25	5790	740	LTE B2	10	900	25.48	25.50
CA 4A-17A	LTE B17	10	23790	710	QPSK	1	25	5790	740	LTE B4	10	2175	25.50	25.50

1.3.3 LTE Band 13 as PCC

Table 3
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			Power	
										SCC Band	SCC BW [MHz]	SCC (DL) Channel	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-4A-13A	LTE B13	5	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	25.33	25.33
CA 4A-4A-13A	LTE B13	5	23230	762	QPSK	1	0	5230	751	LTE B4	20	2175	25.33	25.33
CA 2A-13A-66A-66A	LTE B13	5	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	25.33	25.33
CA 2A-13A-66B	LTE B13	5	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	25.33	25.33
CA 2A-13A-66C	LTE B13	5	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	25.33	25.33
CA 2A-13A-66D	LTE B13	5	23230	762	QPSK	1	0	5230	751	LTE B2	20	900	25.33	25.33

1.3.4 LTE Band 14 as PCC

Table 4
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			Power	
										SCC Band	SCC BW [MHz]	SCC (DL) Channel	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 14A-30A	LTE B14	10	23330	793	QPSK	1	25	5330	763	LTE B30	10	9820	25.33	25.35
CA 14A-66A	LTE B14	10	23330	793	QPSK	1	25	5330	763	LTE B66	20	66786	25.37	25.35
CA 2A-14A	LTE B14	10	23330	793	QPSK	1	25	5330	763	LTE B2	20	900	25.34	25.35

1.3.1 LTE Band 5 as PCC

Table 5
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC				SCC 1				SCC 2				SCC 3				Power					
			PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 5A-25A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B25	20	8365	1962.5	-	-	-	-	-	-	-	-	-	-	25.42
CA 5A-66B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B66	15	66786	2145	LTE B66	15	66879	2154.3	-	-	-	-	-	-	25.42
CA 2A-2A-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	25.42
CA 2A-2A-5A-70B	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	-	-	25.42
CA 2A-2A-5A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	25.42
CA 2A-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	25.42
CA 2A-4A-5A-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	-	-	25.42
CA 2A-4A-5A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B66	20	66786	2145	-	-	25.42
CA 2A-1A-30A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B4	20	2175	2132.5	-	-	25.42
CA 2A-1A-66A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67736	2190	-	-	25.42
CA 4A-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	25.42
CA 5A-30A-66A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67736	2190	-	-	25.42
CA 5A-66A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67736	2190	-	-	25.42
CA 5A-66C	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	25.42
CA 2A-2A-5A-66C	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	25.42
CA 2A-2A-30A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	25.42

FCC ID: ZNFV350A



SAR EVALUATION REPORT



Reviewed by:
Quality Manager

Test Dates:
04/06/18 – 04/18/18

DUT Type:
Portable Handset

APPENDIX H:
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1.3.2 LTE Band 26 as PCC

Table 6
Maximum Output Powers

Combination	PCC									SCC 1				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 25A-26A	LTE B26	10	26740	819	QPSK	1	25	8740	864	LTE B25	20	8365	1962.5	25.50	25.44
CA 26A-41A	LTE B26	10	26740	819	QPSK	1	25	8740	864	LTE B41	20	40620	2593	25.41	25.44

1.3.3 LTE Band 4 as PCC

Table 7
Maximum Output Powers

Power																								
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	24.67	24.70
CA 4A-12A (1)	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.68	24.70
CA 4A-12A (2)	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	24.68	24.70
CA 4A-17A	LTE B4	10	20300	1745	QPSK	1	49	2300	2345	LTE B17	10	5790	740	-	-	-	-	-	-	-	-	-	24.62	24.59
CA 4A-29A	LTE B4	10	20300	1745	QPSK	1	49	2300	2345	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	-	-	24.63	24.58
CA 2A-4A-13A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	24.53	24.70
CA 4A-12B	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	-	-	-	-	-	24.51	24.70
CA 4A-4A-13A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B13	10	5230	751	-	-	-	-	-	24.54	24.70
CA 4A-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B29	10	9715	722.5	-	-	-	-	-	24.56	24.70
CA 4A-4A-7A (1)	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B7	20	3100	2655	-	-	-	-	-	24.64	24.70
CA 2A-2A-4A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	1940	24.69	24.70
CA 2A-2A-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	24.68	24.70	
CA 2A-4A-12A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	24.66	24.70	
CA 2A-4A-29A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	24.66	24.70	
CA 2A-4A-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	24.66	24.70	
CA 2A-4A-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	24.69	24.70	
CA 2A-4A-5A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	24.67	24.70	
CA 2A-4A-5B	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2463	874.3	24.68	24.70	
CA 4A-4A-12A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	24.68	24.70	
CA 4A-4A-5B	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B4	20	2050	2120	LTE B5	10	2525	881.5	LTE B5	5	2463	874.3	24.68	24.70	
CA 2A-4A-7A-7A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	24.62	24.70	
CA 2A-4A-7C	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B7	20	2902	2635.2	24.62	24.70	
CA 2A-4A-7A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2345	LTE B2	20	900	1960	LTE B7	20	3100	2655	LTE B12	10	5095	737.5	24.70	24.70	

1.3.4 LTE Band 66 as PCC

Table 8
Maximum Output Powers

Combination	PCC Band	PCC									SCC 1				SCC 2				SCC 3				SCC 4				Power	
		PCC BW [MHz]	PCC (DL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 12A-66A (1)	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	24.69	24.70	
CA 12A-66A (2)	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	24.69	24.70	
CA 12A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	5100	740	-	-	-	-	-	-	-	-	-	-	-	-	24.70	24.70	
CA 2A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	24.69	24.70	
CA 7A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	24.69	24.70	
CA 29A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B29	20	9715	722.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	24.67	24.70	
CA 5A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	24.43	24.65	
CA 66A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66736	2150.2	LTE B66	20	66636	2120	-	-	-	-	-	-	-	-	24.62	24.70	
CA 66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B66	20	66640	2130.4	-	-	-	-	-	-	-	-	24.53	24.70	
CA 66C-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B66	20	66636	2120	-	-	-	-	-	-	-	-	24.59	24.70	
CA 12A-30A-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B66	20	66636	2120	-	-	-	-	-	-	-	-	24.69	24.70	
CA 2A-12A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	-	-	-	-	24.70	24.70	
CA 2A-12A-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	24.67	24.70	
CA 2A-12A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	24.70	24.70	
CA 2A-12A-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	24.70	24.70	
CA 2A-12A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	24.67	24.65	
CA 2A-12A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	24.69	24.70	
CA 2A-2A-12A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	24.70	24.70	
CA 2A-2A-12A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	24.69	24.70	
CA 2A-2A-12A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	24.70	24.70	
CA 2A-2A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	24.69	24.70	
CA 2A-2A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	24.64	24.60	
CA 2A-2A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	24.70	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.70	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66B	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	LTE B66	5	66636	2115.7	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66C	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.69	24.70	
CA 5A-30A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66836	2150.2	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	24.6		

1.3.5 LTE Band 2 as PCC

Table 9
Maximum Output Powers

[illegible]

1.3.6 LTE Band 25 as PCC

Table 10
Maximum Output Powers

Combination	PCC									SCC 1				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL/RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 12A-25A	LTE B25	20	26590	1905	QPSK	1	0	8590	1985	LTE B12	10	5095	737.5	24.64	24.70
CA 25A-25A (1)	LTE B25	20	26590	1905	QPSK	1	0	8590	1985	LTE B25	20	8140	1940	24.70	24.70
CA 25A-26A	LTE B25	20	26590	1905	QPSK	1	0	8590	1985	LTE B26	15	8865	876.5	24.67	24.70
CA 25A-41A	LTE B25	20	26590	1905	QPSK	1	0	8590	1985	LTE B41	20	40620	2593	24.70	24.70
CA 5A-25A	LTE B25	20	26590	1905	QPSK	1	0	8590	1985	LTE B5	10	2525	881.5	24.66	24.70

1.3.7 LTE Band 7 as PCC

Table 11
Maximum Output Powers

Maximum Carrier Configurations																												
		PCC										SCC1				SCC2				SCC3				Power				
Combination	PCC Band	PCC BW [MHz]	PCC [CA] Channel	PCC [UL] Freq. [MHz]	Modulation	PCC UL/F RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)	
CA_7B	LTE B7	15	20825	2507.5	QPSK	1	0	2825	2627.5	LTE B7	5	2918	2363.5	-	-	-	-	-	-	-	-	-	-	-	-	-	23.05	23.62
CA_7B-66A	LTE B7	20	21100	2535	QPSK	1	0	2825	2560	LTE B6A	10	68780	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	23.65	23.70
CA_4A-7A(1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B4	20	2920	2132.5	LTE B4	20	2350	2150	-	-	-	-	-	-	-	-	-	23.05	23.70
CA_2A-4A-7A-7A	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B7	20	2920	2630	LTE B2	20	900	1560	LTE B4	20	2175	2132.5	-	-	-	-	-	23.64	23.70
CA_2A-4A-7C	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B7	20	2920	2630	LTE B2	20	900	1560	LTE B4	20	2175	2132.5	-	-	-	-	-	23.64	23.70
CA_2A-6A-7A-15A	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B7	20	2920	2630	LTE B2	20	900	1560	LTE B4	20	2175	2132.5	-	-	-	-	-	23.64	23.70

1.3.1 LTE Band 30 as PCC

Table 12
Maximum Output Powers

PCC										SC1										SC2										SC3										SC4										Power	
Combination	PCC Band	PCC BW (MHz)	PCC (N) Channel	PCC (N) Freq. (MHz)	Modulation	PCC Uplink	PCC BW Offset	PCC (N) Channel	PCC (N) Freq. (MHz)	SC Band	SC BW (MHz)	SC (N) Channel	SC (N) Freq. (MHz)	SC Band	SC BW (MHz)	SC (N) Channel	SC (N) Freq. (MHz)	SC Band	SC BW (MHz)	SC (N) Channel	SC (N) Freq. (MHz)	SC Band	SC BW (MHz)	SC (N) Channel	SC (N) Freq. (MHz)	SC Band	SC BW (MHz)	SC (N) Channel	SC (N) Freq. (MHz)	LTx Power with DSS-CA Enabled (dBm)	LTx Single Carrier Tx Power (dBm)																				
CA_2A_10A_50A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E84	50	5330	763																	24.62	24.62																				
CA_2B_20A_50A_66A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E820	20	9735	722.5	LTx E866	20	9670	2145													24.11	24.09																				
CA_12A_30A_66A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	2150																	24.11	24.09																				
CA_2A_20A_50A_66A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	717.5	LTx E866	20	9670	2145													24.11	24.09																				
CA_2A_2A_10A_50A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	1960	LTx E84	20	700	1980	LTx E812	20	9866	5005	737.5								24.11	24.09																				
CA_2A_2A_20A_50A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	1960	LTx E82	20	700	1980	LTx E820	20	9866	5005	737.5								24.11	24.09																				
CA_2A_2A_20A_50A_66A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	1960	LTx E82	20	9866	1960	LTx E812	20	9866	5005	737.5								24.11	24.09																				
CA_2A_4A_12A_50A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	1960	LTx E84	20	2125	2123.5	LTx E812	20	9866	5005	737.5								24.11	24.09																				
CA_2A_4A_20A_50A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	1960	LTx E84	20	2125	2123.5	LTx E82	20	9866	5005	737.5								24.11	24.09																				
CA_2A_4A_5A_50A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	1960	LTx E84	20	2125	2123.5	LTx E85	20	7005	881.3									24.09	24.06																				
CA_2A_4A_5A_50A_66A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	1960	LTx E84	20	2125	2123.5	LTx E85	20	7005	881.3									24.09	24.06																				
CA_4A_4A_12A_50A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E84	20	2125	2123.5	LTx E84	20	84	2125	2123.5	LTx E84	20	84	2125	2123.5							24.09	24.06																				
CA_5A_5A_20A_50A_66A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E84	20	2125	881.3	LTx E866	20	9670	2145	LTx E866	20	9670	2145	LTx E866	20	9670	2145					24.09	24.06																				
CA_2A_20A_50A_66A	LTx E80	50	27730	2130	QPSK	1	25	9820	2305	LTx E812	20	9866	717.5	LTx E866	20	9670	2145													24.11	24.09																				

FCC ID: ZNFV350A	 PCTEST TECHNOLOGY LABORATORY, INC.	SAR EVALUATION REPORT	 LG	Reviewed by: Quality Manager
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1.3.2 LTE Band 41 as PCC

Table 13
Maximum Output Powers

Combination	PCC									SCC 1				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Channel	PCC (UL) Freq. [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx. Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41A-41A (1)	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	41490	2680	25.20	25.18
CA 41C (1)	LTE B41	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40383	2569.3	25.19	25.18

1.4 4x4 Downlink MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section 1.2 were applied.

Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

1.4.1 LTE 4x4 DL MIMO Standalone Powers

Table 14
Maximum Output Powers

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
4	20	20300	1745	QPSK	1	0	24.49	24.70	24.2
66	20	132572	1770	QPSK	1	0	24.45	24.70	24.2
2	20	19100	1900	QPSK	1	0	24.61	24.70	24.2
25	20	26590	1905	QPSK	1	0	24.70	24.70	24.2

1.4.2 LTE Band 12 as PCC

Table 15
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC					SCC 1				SCC 2				Power			
						PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx. Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-12A (2)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	25.23	25.50
CA 12A-[66A] (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	25.23	25.50
CA 12A-[66A] (2)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	25.23	25.50
CA [2A]-12A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	25.26	25.50
CA [4A]-12A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	25.23	25.50
CA 12A-30A-[66A]	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.36	25.50
CA [4A]-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	25.44	25.50
CA 12A-[66A]-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	25.39	25.50
CA [4A]-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.45	25.50
CA 12A-[66C]	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	25.37	25.50
CA [2A]-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.37	25.50
CA [2A]-12A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	25.38	25.50
CA [2A]-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.36	25.50
CA [2A]-4A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.35	25.50
CA 2A-12A-[66A]	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.36	25.50
CA 2A-[4A]-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.37	25.50
CA [4A]-4A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	25.43	25.50

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1.4.3 LTE Band 17 as PCC

Table 16
Maximum Output Powers

	PCC										SCC 1					Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)
CA [2A]-17A	LTE B17	10	23790	710	QPSK	1	25	5790	740	2x2 MIMO	LTE B2	10	900	1960	4x4 MIMO	25.30	25.50
CA [4A]-17A	LTE B17	10	23790	710	QPSK	1	25	5790	740	2x2 MIMO	LTE B4	10	2175	2132.5	4x4 MIMO	25.23	25.50

1.4.1 LTE Band 13 as PCC

Table 17
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				Power			
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B66	5	66786	2145	4x4 MIMO	25.41	25.36
CA [13A]-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	5	66786	2145	4x4 MIMO	LTE B66	5	66786	2145	4x4 MIMO	25.41	25.36
CA [2A]-13A-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.40	25.36
CA [2A]-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.41	25.36
CA [2A]-13A-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.40	25.36
CA [13A]-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.39	25.36
CA [13A]-66A-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.41	25.36
CA [2A]-2A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1960	2x2 MIMO	25.40	25.36

1.4.1 LTE Band 5 as PCC

Table 18
Maximum Output Powers

PCC										SCC 1				SCC 2				Power				
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A]-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.34	25.42
CA [2A]-2A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1960	2x2 MIMO	25.34	25.42
CA [2A]-5A-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.36	25.42
CA [2A]-5A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.36	25.42
CA [4A]-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	25.37	25.42
CA [2A]-5A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.34	25.42
CA [4A]-5A-30A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	25.31	25.42
CA [5A]-30A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.37	25.42
CA [2A]-4A-5A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.38	25.42
CA [5A]-66A-66A	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	25.35	25.42

FCC ID: ZNFV350A



SAR EVALUATION REPORT



Reviewed by:
Quality Manager

Test Dates:

04/06/18 – 04/18/18

DUT Type:

Portable Handset

APPENDIX H:
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1.4.2 LTE Band 4 as PCC

Table 19
Maximum Output Powers

PCC											SCC 1				SCC 2				Power			
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-12A (2)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	24.67	24.70
CA [2A]-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	24.52	24.70
CA [4A]-13A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	24.53	24.70
CA [2A]-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	24.54	24.70
CA [4A]-17A	LTE B4	10	20300	1745	QPSK	1	49	2300	2145	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	24.67	24.59
CA [4A]-12A (1)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	24.67	24.70
CA [4A]-29A	LTE B4	10	20300	1745	QPSK	1	49	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	24.61	24.59
CA [4A]-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	4x4 MIMO	-	-	-	-	-	24.99	24.70
CA [2A]-2A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	24.60	24.70
CA [2A]-4A-13A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	24.62	24.70
CA [2A]-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	24.59	24.70
CA 2A-[4A]-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	24.59	24.70
CA [4A]-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	24.55	24.70
CA [4A]-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	24.52	24.70
CA [4A]-7A-12A (1)	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.63	24.70
CA [2A]-4A-29A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	24.67	24.70
CA 2A-2A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	24.61	24.70
CA 2A-[4A]-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.70	24.70
CA [4A]-12A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.65	24.70
CA [4A]-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	24.56	24.70
CA [4A]-4A-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	24.55	24.70
CA 2A-[4A]-7A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B7	20	3100	2655	2x2 MIMO	24.62	24.70
CA [2A]-4A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.65	24.70
CA 2A-[4A]-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	24.61	24.70
CA 2A-[4A]-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	24.61	24.70
CA [4A]-29A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.67	24.70
CA [4A]-5A-30A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.64	24.70
CA [4A]-7A-7A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	LTE B7	20	2850	2630	2x2 MIMO	24.64	24.70
CA [2A]-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.62	24.70
CA [2A]-4A-4A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	24.59	24.70
CA 2A-[4A]-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.60	24.70
CA 2A-[4A]-5A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	24.64	24.70
CA [4A]-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4	20	2050	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.55	24.70
CA [4A]-4A-12A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	2x2 MIMO	LTE B4	20	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.51	24.70

1.4.3 LTE Band 66 as PCC

Table 20
Maximum Output Powers

PCC											SCC1				SCC2				Power				
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA [2A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	24.59	24.70
CA [2A]-[66A] (1)	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	24.56	24.70
CA [12A]-[66A] (2)	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	24.56	24.70
CA [29A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	24.59	24.70
CA [66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66536	2120	4x4 MIMO	-	-	-	-	-	-	24.57	24.70
CA [2A]-[30A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	24.60	24.70	
CA [13A]-[66B]	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	4x4 MIMO	LTE B66	5	6693	2135.7	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	24.59	24.65	
CA [2A]-[13A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	24.60	24.70	
CA [2A]-[66B]	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	2x2 MIMO	LTE B66	5	6693	2135.7	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	24.57	24.65	
CA 2A-[13A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	24.63	24.70	
CA 2A-[66C]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66838	2150.2	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	24.61	24.70	
CA [66A]-[66C]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B66	20	66536	2120	4x4 MIMO	24.60	24.70	
CA [66C]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66838	2150.2	4x4 MIMO	LTE B66	20	66536	2120	4x4 MIMO	24.60	24.70	
CA [12A]-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B66	20	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.55	24.70	
CA [12A]-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66536	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.59	24.70	
CA [13A]-[66C]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66838	2150.2	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	24.62	24.70	
CA [2A]-[66C]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B66	20	66838	2150.2	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	24.57	24.70	
CA 2A-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B6	10	2525	881.5	2x2 MIMO	24.63	24.70	
CA [12A]-[66C]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66838	2150.2	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.62	24.70	
CA [2A]-[2A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	24.59	24.70	
CA [2A]-[2A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	24.61	24.70	
CA [2A]-[2A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66838	2150.2	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	24.63	24.70	
CA 2A-[2A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	24.61	24.70	
CA 2A-[16A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66536	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	24.62	24.70	
CA 2A-[16A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B66	20	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	24.57	24.70	
CA 2A-[16A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B15	10	5285	881.5	2x2 MIMO	LTE B30	10	9900	2365	2x2 MIMO	24.60	24.70	
CA [13A]-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66536	2120	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	24.61	24.70	
CA [13A]-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B66	20	66536	2120	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	24.57	24.70	
CA [2A]-[12A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.58	24.70	
CA [2A]-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B66	20	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	24.58	24.70	
CA 2A-[2A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	24.61	24.70	
CA 2A-[2A]-[66A]	LTE B66	15	132322	1745	QPSK	1	36	66786	2145	4x4 MIMO	LTE B66	5	6693	2135.7	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	24.62	24.68	
CA 5A-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66536	2120	2x2 MIMO	LTE B66	10	2525	881.5	2x2 MIMO	24.59	24.70	
CA 5A-[66A]-[66A]	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B66	20	66536	2120	4x4 MIMO	LTE B6	10	2525	881.5	2x2 MIMO	24.60	24.70	

1.4.4 LTE Band 2 as PCC

Table 21
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC						DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC 1						SCC 2						LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
				PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]					DL Ant. Config.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.						
CA [2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	24.69	24.70		
CA [2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	24.66	24.70		
CA [2A]-[2A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	700	1940	4x4 MIMO	-	-	-	-	-	-	-	-	24.67	24.70		
CA [2A]-[17A]	LTE B2	5	19175	1907.5	QPSK	1	12	1175	1987.5	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	24.60	24.69		
CA [2C]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	902	1960.2	4x4 MIMO	-	-	-	-	-	-	-	-	24.70	24.70		
CA [2A]-[29A]	LTE B2	5	19175	1907.5	QPSK	1	12	1175	1987.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	24.65	24.69		
CA [2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	24.65	24.70		
CA [2A]-[12A] (1)	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	24.62	24.70		
CA [2A]-[13A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	24.61	24.70		
CA [2A]-[2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	24.60	24.70		
CA [2A]-[2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	24.61	24.70		
CA [2A]-[4A]-[13A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	24.59	24.70		
CA [2A]-[4A]-[5A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	24.61	24.70		
CA [2A]-[66B]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B66	15	66786	2145	2x2 MIMO	LTE B66	5	66879	2154.3	2x2 MIMO	-	-	-	24.52	24.70		
CA [2A]-[13A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	24.56	24.70		
CA [2A]-[4A]-[29A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	24.61	24.70		
CA [2A]-[66C]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	24.58	24.70		
CA [2A]-[29A]-[30A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	24.68	24.70		
CA [2A]-[2A]-[5A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	24.68	24.70		
CA [2A]-[2A]-[5A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	24.59	24.70		
CA [2A]-[4A]-[29A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	24.63	24.70		
CA [2A]-[5A]-[30A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	24.67	24.70		
CA [2A]-[66C]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2164.8	2x2 MIMO	-	-	-	24.53	24.70		
CA [2A]-[2A]-[4A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	24.62	24.70		
CA [2A]-[66B]-[30A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	24.70	24.70		
CA [2A]-[5A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	24.58	24.70		
CA [2A]-[4A]-[7A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	-	-	24.70	24.70		
CA [2A]-[12A]-[30A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	24.67	24.70		
CA [2A]-[2A]-[12A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	24.52	24.70		
CA [2A]-[2A]-[12A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	24.61	24.70		
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	24.70	24.70		
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	24.55	24.70		
CA [2A]-[4A]-[30A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	24.65	24.70		
CA [2A]-[5A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	24.59	24.70		
CA [2A]-[66C]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	24.53	24.70		
CA [2A]-[2A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	24.52	24.70		
CA [2A]-[4A]-[4A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	20	2350	2150	2x2 MIMO	-	-	-	24.56	24.70		
CA [2A]-[6A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	24.63	24.70		
CA [2A]-[12A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	24.61	24.70		
CA [2A]-[2A]-[13A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	24.56	24.70		
CA [2A]-[2A]-[13A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	24.59	24.70		
CA [2A]-[4A]-[12A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	24.59	24.70		
CA [2A]-[4A]-[4A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B4	20	2350	2150	2x2 MIMO	-	-	-	24.60	24.70		
CA [2A]-[6A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	24.58	24.70		
CA [2A]-[12A]-[66A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	24.63	24.70		
CA [2A]-[4A]-[12A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	24.60	24.70		
CA [2A]-[6A]-[5A]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	24.59	24.70		
CA [2A]-[66B]	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	24.57	24.70		

1.4.5 LTE Band 25 as PCC

Table 22
Maximum Output Powers

	PCC										SCC 1					Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)
CA [25A]-[25A] (1)	LTE B25	20	26590	1905	QPSK	1	0	8590	1985	4x4 MIMO	LTE B25	20	8140	1940	4x4 MIMO	24.44	24.70

1.4.6 LTE Band 7 as PCC

Table 23
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				Power			
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [4A]-[7A]-[12A] (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	23.65	23.70
CA [2A]-[4A]-[7A]	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	23.68	23.70
CA [4A]-[7A]-[7A]	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	2x2 MIMO	LTE B2	20	9800	9630	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	23.69	23.70

1.4.1 LTE Band 30 as PCC

Table 24
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC										SCC 1					SCC 2					Power	
				PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
CA_12A-30A-[66A]	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.17	25.06			
CA_12A-29A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	25.18	25.06			
CA_12A-3A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.16	25.06			
CA_2A-[4A]-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	25.18	25.06			
CA_[4A]-12A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.05	25.06			
CA_12A-12A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	25.18	25.06			
CA_12A-[4A]-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	25.17	25.06			
CA_4A-29A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	25.00	25.06			
CA_[4A]-5A-30A	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	25.00	25.06			
CA_5A-30A-[66A]	LTE B30	10	27710	2310	QPSK	1	25	9820	2355	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	25.15	25.06			

1.5 LAA Downlink Carrier Aggregation

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive. Due to the wide downlink bandwidth, each Band 46 sub-band, represented by subscripts A, B, C, and D, was evaluated independently. The general test selection and setup procedures described in Section 1.2 were applied.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

1.5.1 SISO LAA Downlink Carrier Aggregation RF Conducted Powers

1.5.1.1 LTE Band 13 as PCC

Table 25
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				Power				
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA_13A-46A-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _A	20	47290	5200	LTE B66	20	66786	2145	-	-	-	-	-	-	-	25.41	25.36	
CA_13A-46A-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _B	20	48290	5300	LTE B66	20	66786	2145	-	-	-	-	-	-	-	25.43	25.36	
CA_13A-46A-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _C	20	51290	5600	LTE B66	20	66786	2145	-	-	-	-	-	-	-	25.41	25.36	
CA_13A-46A-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _D	20	53140	5785	LTE B66	20	66786	2145	-	-	-	-	-	-	-	25.42	25.36	
CA_13A-46D-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _A	20	47290	5200	LTE B46 _A	20	47488	5219.8	LTE B46 _A	20	47092	5180.2	-	-	-	-	25.32	25.36
CA_13A-46D-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _B	20	48290	5300	LTE B46 _B	20	48488	5319.8	LTE B46 _B	20	48092	5280.2	-	-	-	-	25.33	25.36
CA_13A-46D-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _C	20	51290	5600	LTE B46 _C	20	51488	5619.8	LTE B46 _C	20	51092	5580.2	-	-	-	-	25.30	25.36
CA_13A-46D-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _D	20	53140	5785	LTE B46 _D	20	53338	5804.8	LTE B46 _D	20	52942	5765.2	-	-	-	-	25.35	25.36
CA_13A-46C-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _A	20	47290	5200	LTE B46 _A	20	47488	5219.8	LTE B66	20	66786	2145	-	-	-	-	25.49	25.36
CA_13A-46C-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _B	20	48290	5300	LTE B46 _B	20	48488	5319.8	LTE B66	20	66786	2145	-	-	-	-	25.48	25.36
CA_13A-46C-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _C	20	51290	5600	LTE B46 _C	20	51488	5619.8	LTE B66	20	66786	2145	-	-	-	-	25.50	25.36
CA_13A-46C-66A	LTE B13	5	23230	782	QPSK	1	0	5230	751	LTE B46 _D	20	53140	5785	LTE B46 _D	20	53338	5804.8	LTE B66	20	66786	2145	-	-	-	-	25.49	25.36

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Test Dates: 04/06/18 – 04/18/18	DUT Type: Portable Handset			APPENDIX H: Page 10 of 13

1.5.1.2 LTE Band 5 as PCC

Table 26
Maximum Output Powers

Combination	PCC									SCC 1				SCC 2				SCC 3				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5A-46A (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	47290	5200	-	-	-	-	-	-	-	-	25.43	25.42
CA_5A-46A (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	48290	5300	-	-	-	-	-	-	-	-	25.40	25.42
CA_5A-46A (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	51290	5600	-	-	-	-	-	-	-	-	25.41	25.42
CA_5A-46A (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	53140	5785	-	-	-	-	-	-	-	-	25.38	25.42
CA_5A-46C (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	-	-	-	-	25.39	25.42
CA_5A-46C (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	-	-	-	-	25.40	25.42
CA_5A-46C (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	-	-	-	-	25.42	25.42
CA_5A-46C (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	-	-	-	-	25.39	25.42
CA_5A-46D (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	LTE B46 ₅	20	47092	5180.2	25.41	25.42
CA_5A-46D (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	LTE B46 ₅	20	48092	5280.2	25.39	25.42
CA_5A-46D (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	LTE B46 ₅	20	51092	5580.2	25.40	25.42
CA_5A-46D (1)	LTE B5	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	LTE B46 ₅	20	52942	5765.2	25.37	25.42

1.5.1.3 LTE Band 4 as PCC

Table 27
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Power (dbm)	
CA_4A-46A-46A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	53540	5825	-	-	-	-	24.67	24.70	
CA_4A-46A-46C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	53540	5825	LTE B46 ₅	20	53342	5805.2	24.67	24.70	
CA_4A-46A-46C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 ₅	20	53540	5825	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	47288	5199.8	24.64	24.70	
CA_4A-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	LTE B46 ₅	20	47092	5180.2	24.70	24.70	
CA_4A-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	LTE B46 ₅	20	48092	5280.2	24.63	24.70	
CA_4A-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	LTE B46 ₅	20	51092	5580.2	24.65	24.70	
CA_4A-46D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	LTE B46 ₅	20	52942	5765.2	24.64	24.70	

1.5.1.4 LTE Band 66 as PCC

Table 28
Maximum Output Powers

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA_13A-46A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	47290	5200	-	-	-	-	-	-	-	-	-	24.64	24.70
CA_13A-46A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	48290	5300	-	-	-	-	-	-	-	-	-	24.68	24.70
CA_13A-46A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	51290	5600	-	-	-	-	-	-	-	-	-	24.67	24.70
CA_13A-46A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	53140	5785	-	-	-	-	-	-	-	-	-	24.71	24.70
CA_46A-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	47290	5200	-	-	-	-	-	-	-	-	-	24.71	24.70
CA_46A-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	48290	5300	-	-	-	-	-	-	-	-	-	24.66	24.70
CA_46A-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	51290	5600	-	-	-	-	-	-	-	-	-	24.68	24.70
CA_46A-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	53140	5785	-	-	-	-	-	-	-	-	-	24.67	24.70
CA_2A-46A-46A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	53540	5825	-	-	-	-	-	24.72	24.70
CA_13A-46C-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	-	-	-	-	-	24.67	24.70
CA_13A-46C-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	-	-	-	-	-	24.70	24.70
CA_13A-46C-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	-	-	-	-	-	24.68	24.70
CA_13A-46C-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B13	10	5230	751	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	-	-	-	-	-	24.67	24.70
CA_46C-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	-	-	-	-	-	24.70	24.70
CA_46C-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	-	-	-	-	-	24.73	24.70
CA_46C-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	-	-	-	-	-	24.71	24.70
CA_46C-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	-	-	-	-	-	24.66	24.70
CA_2A-46A-46C-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	53540	5825	LTE B46 ₅	20	53342	5805.2	24.70	24.70	
CA_2A-46A-46C-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	47288	5199.8	LTE B46 ₅	20	47092	5180.2	24.68	24.70	
CA_2A-46D-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	LTE B46 ₅	20	47092	5180.2	24.69	24.70	
CA_2A-46D-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	LTE B46 ₅	20	48092	5280.2	24.69	24.70	
CA_2A-46D-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	LTE B46 ₅	20	51092	5580.2	24.68	24.70	
CA_2A-46D-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B2	20	900	1960	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	LTE B46 ₅	20	52942	5765.2	24.69	24.70	
CA_46D-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	LTE B46 ₅	20	47092	5180.2	24.68	24.70	
CA_46D-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	LTE B46 ₅	20	48092	5280.2	24.70	24.70	
CA_46D-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	LTE B46 ₅	20	51092	5580.2	24.68	24.70	
CA_46D-66A-66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	67236	2190	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	LTE B46 ₅	20	52942	5765.2	24.70	24.70	

1.5.1.5 LTE Band 2 as PCC

Table 29
Maximum Output Powers

Combination	PCC								SCC 1				SCC 2				SCC 3				SCC 4				Power		
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_2A-46A-46A-66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	53540	5825	LTE B66	20	66786	2145	-	-	-	-	24.70	24.70
CA_2A-2A-46 ₅ D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	20	700	1940	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	LTE B46 ₅	20	47092	5180.2	24.70	24.70
CA_2A-2A-46 ₅ D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	20	700	1940	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	LTE B46 ₅	20	48092	5280.2	24.69	24.70
CA_2A-2A-46 ₅ D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	20	700	1940	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	LTE B46 ₅	20	51092	5580.2	24.70	24.70
CA_2A-2A-46 ₅ D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	20	700	1940	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	LTE B46 ₅	20	52942	5765.2	24.68	24.70
CA_2A-46A-46C-66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	53540	5825	LTE B46 ₅	20	53342	5805.2	LTE B66	20	66786	2145	24.65	24.70
CA_2A-46A-46C-66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B46 ₅	20	53540	5825	LTE B46 ₅	20	47090	5180	LTE B46 ₅	20	47288	5199.8	LTE B66	20	66786	2145	24.70	24.70
CA_2A-46D-66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	LTE B46 ₅	20	47092	5180.2	LTE B66	20	66786	2145	24.70	24.70
CA_2A-46D-66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	LTE B46 ₅	20	48092	5280.2	LTE B66	20	66786	2145	24.64	24.70
CA_2A-46D-66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	LTE B46 ₅	20	51092	5580.2	LTE B66	20	66786	2145	24.68	24.70
CA_2A-46D-66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	LTE B46 ₅	20	52942	5765.2	LTE B66	20	66786	2145	24.66	24.70

1.5.1.1 LTE Band 7 as PCC

Table 30
Maximum Output Powers

Combination	PCC									SCC 1			SCC 2			SCC 3			Power				
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7A-46 ₅ A (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	47290	5200	-	-	-	-	-	-	-	-	23.64	23.70
CA_7A-46 ₅ A (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	48290	5300	-	-	-	-	-	-	-	-	23.61	23.70
CA_7A-46 ₅ A (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	51290	5600	-	-	-	-	-	-	-	-	23.62	23.70
CA_7A-46 ₅ A (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	53140	5785	-	-	-	-	-	-	-	-	23.63	23.70
CA_7A-46 ₅ C (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	-	-	-	-	23.70	23.70
CA_7A-46 ₅ C (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	-	-	-	-	23.69	23.70
CA_7A-46 ₅ C (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	-	-	-	-	23.70	23.70
CA_7A-46 ₅ C (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	-	-	-	-	23.66	23.70
CA_7A-46 ₅ D (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	47290	5200	LTE B46 ₅	20	47488	5219.8	LTE B46 ₅	20	47092	5180.2	23.67	23.70
CA_7A-46 ₅ D (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	48290	5300	LTE B46 ₅	20	48488	5319.8	LTE B46 ₅	20	48092	5280.2	23.69	23.70
CA_7A-46 ₅ D (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	51290	5600	LTE B46 ₅	20	51488	5619.8	LTE B46 ₅	20	51092	5580.2	23.66	23.70
CA_7A-46 ₅ D (1)	LTE B7	20	21100	2535	QPSK	1	50	3100	2655	LTE B46 ₅	20	53140	5785	LTE B46 ₅	20	53338	5804.8	LTE B46 ₅	20	52942	5765.2	23.69	23.70

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1.5.2 4x4 DL MIMO LAA Downlink Carrier Aggregation RF Conducted Powers

1.5.2.1 LTE Band 4 as PCC

Table 31
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC						DL Ant. Config.	SCC Band	SCC 1			DL Ant. Config.	SCC Band	SCC 2			DL Ant. Config.	SCC 3			Power			
				PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]			SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC [DL] Ch.			SCC [DL] Freq. [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]		SCC [DL] Ch.	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [4A]-46 _A -46 _A	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4 ₆	20	47090	5180	2x2 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	LTE B4 ₆	20	53342	5805.2	2x2 MIMO	24.49	24.70
CA [4A]-46 _A -46 _C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4 ₆	20	47090	5180	2x2 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	LTE B4 ₆	20	53342	5805.2	2x2 MIMO	24.48	24.70
CA [4A]-46 _A -46 _C	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	LTE B4 ₆	20	47090	5180	2x2 MIMO	LTE B4 ₆	20	47288	5199.8	2x2 MIMO	24.49	24.70
CA [4A]-46 _D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B4 ₆	20	47488	5219.8	2x2 MIMO	LTE B4 ₆	20	47092	5180.2	2x2 MIMO	24.47	24.70
CA [4A]-46 _D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B4 ₆	20	48488	5319.8	2x2 MIMO	LTE B4 ₆	20	48092	5280.2	2x2 MIMO	24.44	24.70
CA [4A]-46 _D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B4 ₆	20	51488	5619.8	2x2 MIMO	LTE B4 ₆	20	51092	5580.2	2x2 MIMO	24.43	24.70
CA [4A]-46 _D	LTE B4	20	20300	1745	QPSK	1	0	2300	2145	4x4 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B4 ₆	20	53338	5804.8	2x2 MIMO	LTE B4 ₆	20	52942	5765.2	2x2 MIMO	24.48	24.70

1.5.2.2 LTE Band 66 as PCC

Table 32
Maximum Output Powers

Combination	PCC Band	PCC										SCC 1				SCC 2				SCC 3				Power			
		PCC BW [MHz]	PCC [U] Ch.	PCC [U] Freq. [MHz]	Mod.	PCC ULR RB	PCC UL RB Offset	PCC [D] Ch.	PCC [D] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A]-46 _A -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	-	-	-	-	-	24.39	24.70
CA [2A]-46 _A -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	-	-	-	-	-	24.44	24.70
CA [2A]-46 _A -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	-	-	-	-	-	24.41	24.70
CA [2A]-46 _A -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	-	-	-	-	-	24.44	24.70
CA 2A-46 _A -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	-	-	-	-	-	24.58	24.70
CA 2A-46 _A -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	-	-	-	-	-	24.56	24.70
CA 2A-46 _A -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	-	-	-	-	-	24.57	24.70
CA 2A-46 _A -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	-	-	-	-	-	24.54	24.70
CA 46 _A -46 _A -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B4 ₆	20	47090	5180	2x2 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	-	-	-	-	-	24.42	24.70
CA 2A-46 _C -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B4 ₆	20	47488	5219.8	2x2 MIMO	24.55	24.70
CA 2A-46 _C -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B4 ₆	20	48488	5319.8	2x2 MIMO	24.52	24.70
CA 2A-46 _C -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B4 ₆	20	51488	5619.8	2x2 MIMO	24.52	24.70
CA 2A-46 _C -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B4 ₆	20	53338	5804.8	2x2 MIMO	24.54	24.70
CA [2A]-46 _C -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B4 ₆	20	47488	5219.8	2x2 MIMO	24.52	24.70
CA [2A]-46 _C -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B4 ₆	20	48488	5319.8	2x2 MIMO	24.53	24.70
CA [2A]-46 _C -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B4 ₆	20	51488	5619.8	2x2 MIMO	24.51	24.70
CA [2A]-46 _C -66A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B4 ₆	20	53338	5804.8	2x2 MIMO	24.50	24.70
CA 46 _A -46 _C -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B4 ₆	20	47090	5180	2x2 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	LTE B4 ₆	20	53342	5805.2	2x2 MIMO	24.45	24.70
CA 46 _A -46 _C -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	LTE B4 ₆	20	47090	5180	2x2 MIMO	LTE B4 ₆	20	47288	5199.8	2x2 MIMO	24.46	24.70
CA 46 _D -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B4 ₆	20	47488	5219.8	2x2 MIMO	LTE B4 ₆	20	47092	5180.2	2x2 MIMO	24.42	24.70
CA 46 _D -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B4 ₆	20	48488	5319.8	2x2 MIMO	LTE B4 ₆	20	48092	5280.2	2x2 MIMO	24.47	24.70
CA 46 _D -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B4 ₆	20	51488	5619.8	2x2 MIMO	LTE B4 ₆	20	51092	5580.2	2x2 MIMO	24.48	24.70
CA 46 _D -166A	LTE B66	20	132572	1770	QPSK	1	0	67036	2170	4x4 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B4 ₆	20	53338	5804.8	2x2 MIMO	LTE B4 ₆	20	52942	5765.2	2x2 MIMO	24.49	24.70

1.5.2.3 LTE Band 2 as PCC

Table 33
Maximum Output Powers

Combination	PCC Band	PCC BW [MHz]	PCC [U] Ch.	PCC [U] Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC Band	SCC 1				DL Ant. Config.	SCC 2 Band	SCC 2				DL Ant. Config.	SCC 3 Band	SCC 3				DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
						PCC UL RB	PCC UL RB Offset	PCC [D] Ch.	PCC [D] Freq. [MHz]			SCC [D] Ch.	SCC [D] Freq. [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]			SCC BW [MHz]	SCC [D] Ch.	SCC [D] Freq. [MHz]	SCC BW [MHz]			SCC [D] Ch.	SCC [D] Freq. [MHz]	SCC BW [MHz]	SCC [D] Ch.			
CA [2A]-46 _A -46 _A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	47080	5180	2x2 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	-	-	-	-	-	24.68	24.70			
CA [2A]-46 _A -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.69	24.70			
CA [2A]-46 _A -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.70	24.70			
CA [2A]-46 _A -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.68	24.70			
CA [2A]-46 _A -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	24.67	24.70			
CA 2A-46 _A -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	24.66	24.70			
CA 2A-46 _A -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	24.67	24.70			
CA 2A-46 _A -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	24.64	24.70			
CA 2A-46 _A -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	24.66	24.70			
CA [2A]-46 _A -46 _C	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	47080	5180	2x2 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	LTE B4 ₆	20	53340	5805	2x2 MIMO	24.69	24.70			
CA [2A]-46 _A -46 _C	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	53540	5825	2x2 MIMO	LTE B4 ₆	20	47050	5180	2x2 MIMO	LTE B4 ₆	20	47288	5198	2x2 MIMO	24.67	24.70			
CA [2A]-46 _D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B4 ₆	20	47488	5219	2x2 MIMO	LTE B4 ₆	20	47092	5180	2x2 MIMO	24.69	24.70			
CA [2A]-46 _D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B4 ₆	20	48488	5319	2x2 MIMO	LTE B4 ₆	20	48092	5280	2x2 MIMO	24.68	24.70			
CA [2A]-46 _D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B4 ₆	20	51488	5619	2x2 MIMO	LTE B4 ₆	20	51092	5580	2x2 MIMO	24.67	24.70			
CA [2A]-46 _D	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B4 ₆	20	53338	580	2x2 MIMO	LTE B4 ₆	20	52942	5705	2x2 MIMO	24.70	24.70			
CA [2A]-46 _C -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B4 ₆	20	47488	5219	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.67	24.70			
CA [2A]-46 _C -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B4 ₆	20	48488	5319	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.66	24.70			
CA [2A]-46 _C -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B4 ₆	20	51488	5619	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.67	24.70			
CA [2A]-46 _C -66A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	4x4 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B4 ₆	20	53338	580	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	24.68	24.70			
CA 2A-46 _C -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	47290	5200	2x2 MIMO	LTE B4 ₆	20	47488	5219	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	24.67	24.70			
CA 2A-46 _C -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	48290	5300	2x2 MIMO	LTE B4 ₆	20	48488	5319	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	24.68	24.70			
CA 2A-46 _C -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	51290	5600	2x2 MIMO	LTE B4 ₆	20	51488	5619	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	24.65	24.70			
CA 2A-46 _C -166A	LTE B2	20	19100	1900	QPSK	1	0	1100	1980	2x2 MIMO	LTE B4 ₆	20	53140	5785	2x2 MIMO	LTE B4 ₆	20	53338	580	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	24.64	24.70			