EX3DV4- SN:3589 January 25, 2019

10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.41	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10497	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10498	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	± 9.6 %
10499	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	± 9.6 %
10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10501	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	± 9.6 %
10503	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	± 9.6 %
10504	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10505	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10507	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	± 9.6 %
10508	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
		IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10531	AAB	IEEE OUZ, ITAC WIFT (ZUIVITZ, IVICOO, BAPE GUTY CYCLE)	WLAN	8.29	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10533 10534	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.45	± 9.6 %
これいたマオ	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	I AA L'AIA	0.40	1 2 0.0 /0

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10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6%
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6%
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8,48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	± 9.6 %
		cycle)	1 1101	0.20	10.0 /6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6 %
		cycle)		0.10	20.0 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	± 9.6 %
		cycle)	''	1 0,10	
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
		cycle)	''''' '''	",""	
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	± 9.6 %
		cycle)		-,	/
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
		cycle)			
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
		cycle)			
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN	8.59	± 9.6 %
		cycle)			= = : : "
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN	8.60	± 9.6 %
	<u></u>	cycle)			
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN	8.70	± 9.6 %
		cycle)		1	
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN	8.49	± 9.6 %
L		cycle)			'
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty	WLAN	8.36	± 9.6 %
		cycle)			
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN	8.76	± 9.6 %
	<u> </u>	cycle)			
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN	8.35	±9.6%
		cycle)			
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN	8.67	± 9.6 %
		cycle)			
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %
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40500	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10588 10589	AAB AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
		IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10590	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10591	AAB AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10592		IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8,72	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCSO, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc daty cycle)	WLAN	8.88	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MC32, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCSS, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10606	AAB		WLAN	8.64	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)		8.94	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN WLAN	8.59	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)		8.87	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN WLAN	8.77	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)		8.68	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN WLAN	8.82	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)		8.88	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN WLAN	8.71	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)		8.72	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN		± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74 8.83	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN		± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83 8.79	± 9.6 %
10637	AAC	IEEE 802,11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN		
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 % ± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 % ± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3,45	± 9.6 %
10652	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %

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10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6%
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6%
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6%
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6%
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %

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

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

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Certificate No: EX3-7308_Aug18

CALIBRATION	CERTIFICATE	
Object	EX3DV4 - SN:7308	
Calibration procedure(s)	QA CAL-01:v9; QA CAL-14:v4; QA CAL-23:v5; QA CAL-25.v6 Calibration procedure for dosimetric E-field probes	
Calibration date:	August 23, 2018 09-06	 -201
This calibration certificate docu The measurements and the un	iments the traceability to national standards, which realize the physical units of measurements (SI). certainties with confidence probability are given on the following pages and are part of the certificate.	
All calibrations have been cond	ducted in the closed laboratory facility: environment temperature (22 \pm 3)°C and humidity < 70%.	
Calibration Equipment used (M	&TE critical for calibration)	

Primary Standards	ID	Cal Date (Certificate No.)	School and California
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Scheduled Calibration
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Apr-19 Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check; Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Jun-20

0.5	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	Jell
Approved by:	Katja Pokovic	Tiechnical Manager	Mas

Issued: August 24, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: EX3-7308_Aug18

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF DCP sensitivity in TSL / NORMx,y,z diode compression point

CF A, B, C, D crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization φ

φ rotation around probe axis

Polarization 9

9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle

information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is
 implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included
 in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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Probe EX3DV4

SN:7308

Manufactured:

March 11, 2014 August 23, 2018

Calibrated:

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.49	0.60	0.44	± 10.1 %
DCP (mV) ^B	99.6	97.1	102.5	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	177.2	±3.5 %
		Y	0.0	0.0	1.0		165.4	_
		Z	0.0	0.0	1.0		159.6	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V-2	T5 V ⁻¹	T6
X	53.71	401.2	35.76	12.80	0.351	5.077	0.717	0.413	1.005
Y	56.67	439.8	38.08	13.44	0.524	5.100	0.000	0.597	1.012
<u>Z</u>	40.98	304.1	35.29	8.573	0.334	5.045	1.531	0.174	1.005

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

⁸ Numerical linearization parameter: uncertainty not required.

 $^{^{\}rm A}$ The uncertainties of Norm X,Y,Z do not affect the E $^{\rm 2}$ -field uncertainty inside TSL (see Pages 5 and 6).

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.23	10.23	10.23	0.57	0.81	± 12.0 %
835	41.5	0.90	9.96	9.96	9.96	0.58	0.81	± 12.0 %
1750	40.1	1.37	8.66	8.66	8.66	0.36	0.80	± 12.0 %
1900	40.0	1.40	8.26	8.26	8.26	0.29	0.85	± 12.0 %
2300	39.5	1.67	7.81	7.81	7.81	0.29	0.85	± 12.0 %
2450	39.2	1.80	7.45	7.45	7.45	0.35	0.91	± 12.0 %
2600	39.0	1.96	7.30	7.30	7.30	0.35	0.87	± 12.0 %
5250	35.9	4.71	5.10	5.10	5.10	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.04	5.04	5.04	0.40	1.80	± 13.1 %

 $^{^{\}rm C}$ Frequency validity above 300 MHz of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity validity can be extended to \pm 100 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to \pm 5%. The uncertainty is the RSS of Alpha/Depth are determined during as the same applied to the convE uncertainty for indicated target tissue parameters.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	10.38	10.38	10.38	0.36	0.99	± 12.0 %
835	55.2	0.97	10.19	10.19	10.19	0.50	0.82	± 12.0 %
1750	53.4	1.49	8.13	8.13	8.13	0.27	1.04	± 12.0 %
1900	53.3	1.52	7.79	7.79	7.79	0.38	0.85	± 12.0 %
2300	52.9	1.81	7.73	7.73	7.73	0.37	0.80	± 12.0 %
2450	52,7	1.95	7.57_	7. <u>5</u> 7	7.57	0.34	0.88	± 12.0 %
2600	52.5	2.16	7.40	7.40	7.40	0.29	0.95	± 12.0 %
5250	48.9	5.36	4.48	4.48	4.48	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.00	4.00	4.00	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.18	4.18	4.18	0.50	1.90	<u>±</u> 13.1 %

 $^{^{\}rm C}$ Frequency validity above 300 MHz of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is \pm 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

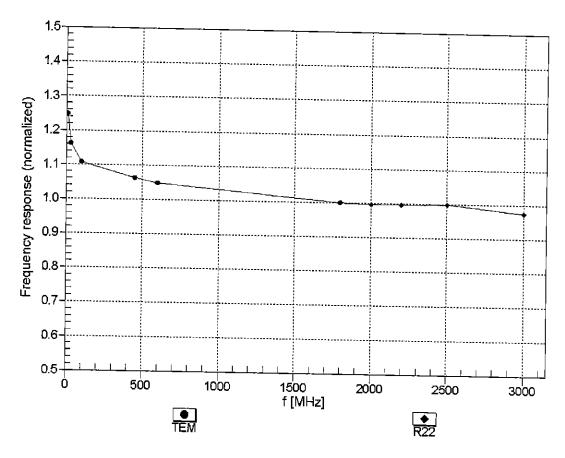
validity can be extended to ± 110 MHz.

At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

the ConvF uncertainty for indicated target tissue parameters.

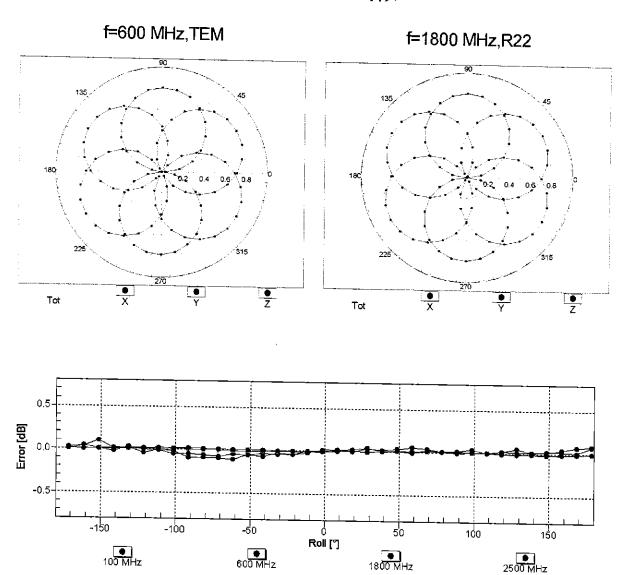
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



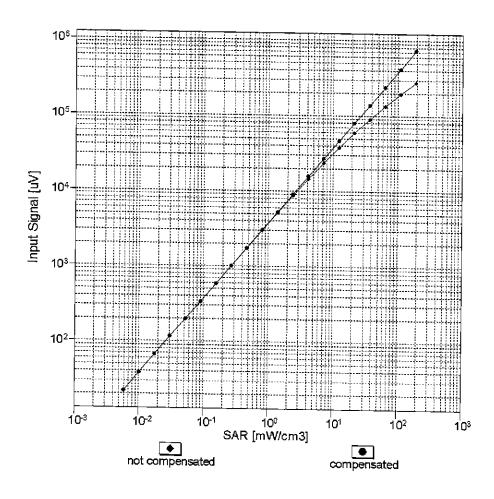
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

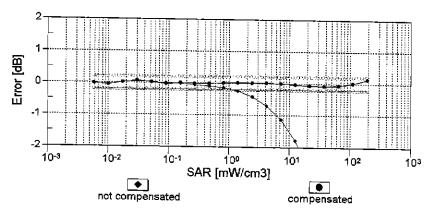
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

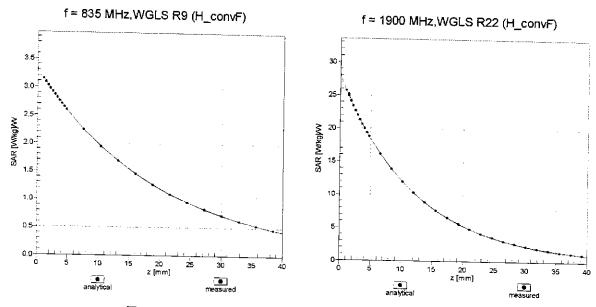
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



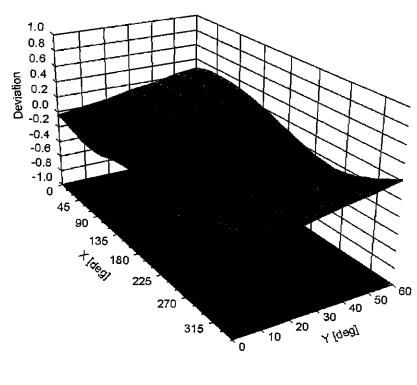


Uncertainty of Linearity Assessment: \pm 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz



Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	
Mechanical Surface Detection Mode	108.5
	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	
Tip Diameter	9 mm
	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	
Recommended Measurement Distance from Surface	1 mm
2.5tanoo nom ounace	1.4 mm

Appendix: Modulation Calibration Parameters

UID	ix: Modulation Calibration Para Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E
0	CW	X	0.00	0.00	1.00	0.00	177.2	(k=2) ± 3.5 %
		Y	0.00	0.00	1.00	0.00	165.4	<u> </u>
		Z	0.00	0.00	1.00	-	159.6	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.71	68.17	11.26	10.00	20.0	± 9.6 %
		Υ	2.39	66.64	10.67		20.0	
		Z	1.90	64.26	9.03		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.19	70.37	17.06	0.00	150.0	±9.6 %
		Y	0.96	66.50	14.51		150.0	
40040	IEEE 000 441 1485 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z	1.05	68.92	16.00		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.18	64.67	16.08	0.41	150.0	± 9.6 %
	 	Υ	1.11	63.43	15.04		150.0	
10013-	IEEE 000 44 - NATE O 4 DO 4	Z	<u>1.</u> 13	64.11	15.48		150.0	
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.93	66.75	17.26	1.46	150.0	± 9.6 %
	 	Y	4.92	66.47	17.15		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z	4.74	66.75	17.08	<u></u>	150.0	
DAC	GSW-FDD (TDWA, GMSK)	X	100.00	114.38	27.28	9.39	50.0	± 9.6 %
		Y	100.00	114.83	27.64		50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	Z	100.00	109.69	24.90		50.0	
DAC	GFRS-FDD (TDIVIA, GIVISK, TN U)	X	100.00	113.94	27.13	9.57	50.0	± 9.6 %
	 	Y	100.00	114.49	27.54		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00 100.00	109.21 115.48	24.74 26.77	6.56	50.0 60.0	± 9.6 %
57.10		Y	100.00	114.18	20.00			
		Z	100.00	109.85	26.29		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	6.22	84.66	23.86 34.29	12.57	60.0 50.0	± 9.6 %
		Y	4.94	76.24	29.94	 -	50.0	
		Z	5.36	79.88	31.57		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	11.81	100.22	36.35	9.56	60.0	± 9.6 %
		Υ	11.10	97.75	35.30		60.0	
		Z	7.89	90.81	32.78		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	118.27	27.22	4.80	80.0	± 9.6 %
	 	Υ	100.00	114.44	25.61		80.0	
40000	OPPO FROM	Z	_100.00	111.67	23.86		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	100.00	122.72	28.40	3.55	100.0	± 9.6 %
	 	Y	100.00	114.80	25.04		100.0	
10029-	EDGE EDD (TDMA ODG)(THIS 4 C)	Z	100.00	114.83	24.49	<u> </u>	100.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.56	85.50	29.56	7.80	80.0	± 9.6 %
		Y	6.53	84.80	29.16		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	4.80 100.00	79.03 114.96	26.78 26.10	5.30	70.0	± 9.6 %
<u></u>		Y	100.00	112.69	25.18		70.0	
		Z	100.00	108.37	22.73		70.0 70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	126.84	28.53	1.88	100.0	± 9.6 %
CAA		Ÿ	100.00	105.21	19.68	 -	100.0	
		1 1	[UU.U.U	1 1115 / 1	M D C			

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	T V	400.00	140.50	0=00	T 4 4=		T
CAA	TELE 802.13.1 Bidetootif (GFSK, DRS)	X	100.00	146.53	35.02	1.17	100.0	± 9.6 %
		Ý	100.00	95.65	15.05	┼	100.0	
		Z	100.00	112.23	21.08	 	100.0	
10033-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	100.00	133.98	36.90	5.30	70.0	± 9.6 %
CAA	DH1)	``	100.00	100.50	30.30	3.30	70.0	19.6%
		Y	94.91	132.14	36.35		70.0	- -
		Z	24.70	106.96	28.52	ļ <u>-</u>	70.0	
10034-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	8.70	95.28	25.33	1.88	100.0	± 9.6 %
CAA	DH3)					1.00	100.0	2 3.0 %
		Υ	4.18	83.23	21.11		100.0	
		Z	3.97	82.01	19.44		100.0	
10035-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	3.83	83.82	21.38	1.17	100.0	± 9.6 %
CAA	DH5)	ļ	<u></u>		<u> </u>			
		Y	2.23	74.99	17.69		100.0	
40000		Z	2.33	75.94	16.98		100.0	
10036-	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Х	100.00	134.50	37.14	5.30	70.0	± 9.6 %
CAA	 	<u> </u>						
	 	Y	100.00	133.48	36.76		70.0	
10037-	IEEE BOOKE A DIVINION OF BROKE THE	Z	56.60	119.91	31.85		70.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	7.69	93.53	24.78	1.88	100.0	± 9.6 %
		 		<u> </u>		<u> </u>	<u> </u>	
	 	Y	3.89	82.31	20.76		100.0	
10038-	IEEE 900 45 4 Division to 40 DDOK DIVE	Z	3.40	80.12	18.77		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	3.93	84.59	21.78	1.17	100.0	± 9.6 %
		 	0.00					
		Y Z	2.28	75.57	18.03		100.0	<u> </u>
10039-	CDMA2000 (1xRTT, RC1)	X	2.38	76.51	17.34	<u> </u>	100.0	
CAB	ODMAZOOO (TXKTT, KCT)	^	2.78	78.14	18.71	0.00	150.0	± 9.6 %
		Y	1.67	70.40	4404		 	
		Z-		70.12	14.94		150.0	
10042-	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-	X	2.00 100.00	74.01	15.76		150.0	
CAB	DQPSK, Halfrate)	^	100.00	110.92	24.96	7.78	50.0	± 9.6 %
		Υ	100.00	110.22	24.75		F0.0	
		Z	100.00	106.01		 	50.0	
10044-	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	112.58	22. <u>46</u> 4.43	0.00	50.0	
CAA		^	0.00	112.56	4.43	0.00	150.0	± 9.6 %
		Y	0.07	121.95	9.84	 	150.0	
		Ż	0.01	118.94	9.83		150.0	
10048-	DECT (TDD, TDMA/FDM, GFSK, Full	$\frac{\overline{x}}{x}$	100.00	111.48	27.44	13.80	150.0 25.0	10000
CAA	Slot, 24)	\ \`	100.00	111,40	27.44	13.60	25.0	± 9.6 %
		Υ	100.00	112.85	28.28		25.0	
		Z	18.65	86.54	19.90		25.0	
10049-	DECT (TDD, TDMA/FDM, GFSK, Double	X	100.00	112.40	26.75	10.79	40.0	+060/
CAA	Slot, 12)				0.70	10.79	40.0	± 9.6 %
		Y	100.00	113.42	27.38	 	40.0	- -
		Z	46.23	99.19	22.45	-	40.0	 _
10056-	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	126.85	34.82	9.03	50.0	± 9.6 %
CAA_						5.00	55.5	2.0 %
		Υ	100.00	126.84	34.96		50.0	
4005		Z	73.14	116.99	30.84		50.0	
10058-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.87	79.06	26.07	6.55	100.0	± 9.6 %
DAC	<u> </u>							_ 5.5 /6
		Υ	4.89	78.72	25.82		100.0	
40050		Z	3.78	74.24	23.87		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X	1.24	66.08	16.89	0.61	110.0	± 9.6 %
CAB	Mbps)					<u> </u>		_ 5.5 %
	<u> </u>	Y	1.15	64.70	15.80		110.0	
10060	IEEE OOO (4) WIELE	_ Z	1.15	65.12	16.08		110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	Х	100.00	145.11	38.67	1.30	110.0	± 9.6 %
CAB	Mbps)							_ = - , •
		Υ,	100.00	138.14	35.54		110.0	
	<u> </u>	Z	100.00	143.13	37.45	_	110.0	
								<u> </u>

D064- REEE 802.11a WiFi 2.4 GHz (DSSS, 11				
TO062-	4 2.04	2.04 11	0.0 ± 9.6	3 %
10062-		11	0.0	
CAC Mbps Y 4.72 66.44 16.52	2	11	0.0	
Toolegan	0.49		0.0 ±9.6	%
IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 X 4.76 66.90 16.81	2	10	0.0	
CAC Mbps Y 4.74 66.55 16.64	3		0.0	
10064-	0.72		0.0 ± 9.6	%
Toda	1	10	0.0	
CAC Mbps Y 5.06 66.88 16.91	2		0.0	
10065- IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 X 4.93 67.08 17.15		0.86 10	0.0 ± 9.6	%
Tools		10	0.0	
CAC Mbps) Y 4.92 66.80 17.03 10066- CAC Mbps) Y 4.94 66.84 17.22 Mpps) Y 4.94 66.84 17.22 Z 4.70 66.94 17.07 10067- CAC Mbps) Y 5.23 66.94 17.07 CAC Mbps) Y 5.23 66.94 17.65 Z 4.99 67.15 17.52 10068- CAC Mbps) Y 5.23 66.94 17.65 Z 4.99 67.15 17.52 10068- CAC Mbps) Y 5.30 67.12 17.99 AND FOR THE BOOL 11a/h WiFi 5 GHz (OFDM, 48 X 5.28 67.31 17.99 AND FOR THE BOOL 11a/h WiFi 5 GHz (OFDM, 54 X 5.36 67.24 18.15 CAC Mbps) Y 5.38 67.05 18.11 10071- CAB (DSSS/OFDM, 9 Mbps) Y 5.01 66.58 17.48 10072- CAB (DSSS/OFDM, 12 Mbps) Y 5.05 67.07 17.56 DSSS/OFDM, 18 Mbps) Y 5.06 67.11 18.07 Z 4.84 67.21 17.87 AND FOR THE BOOL 11g WiFi 2.4 GHz X 5.05 67.07 17.56 CAB (DSSS/OFDM, 18 Mbps) Y 5.03 66.80 17.36 Y 5.06 67.11 18.07 Z 4.84 67.21 17.87 10074- CAB (DSSS/OFDM, 18 Mbps) Y 5.03 66.88 18.23 10075- CAB (DSSS/OFDM, 24 Mbps) Y 5.03 66.88 18.23 Y 5.03 66.88 18.23 Y 5.03 66.88 18.23 Y 5.03 66.88 18.26 Y 5.04 67.01 18.67 CAB (DSSS/OFDM, 36 Mbps) Y 5.08 67.13 18.01 10076- CAB (DSSS/OFDM, 48 Mbps) Y 5.08 67.18 18.60 Y 5.08 66.85 18.66 CAB (DSSS/OFDM, 48 Mbps) Y 5.08 66.85 18.66 A 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.08 18.01		10	0.0	
Tooleg-cac IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 X 4.95 67.11 17.33 17.72		1.21 10	0.0 ± 9.6	%
10066- IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 X 4.95 67.11 17.33		10	0.0	
CAC Mbps Y 4.94 66.84 17.22		100	0.0	
Too Too	Ш.		0.0 ± 9.6	%
Toops		10	0.0	
CAC Mbps Y 5.23 66.94 17.65			0.0	
Toole	2.04	2.04 100	0.0 ± 9.6	%
Toole	,	100	0.0	
CAC Mbps Y 5.30 67.12 17.95	?		0.0	
Toolog-	2.55	2.55 100	0.0 ± 9.6	%
Teel	; -	10	0.0	
CAC Mbps) Y 5.38 67.05 18.11 10071- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) X 5.01 66.83 17.56 Y 5.01 66.58 17.48 Z 4.83 66.80 17.36 10072- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) X 5.00 67.20 17.81 10073- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) X 5.05 67.32 18.13 10074- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) X 5.01 67.21 17.87 10075- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) X 5.03 66.98 18.23 10076- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) X 5.05 67.33 18.61 10076- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) X 5.04 67.11 18.60 Y 5.06 66.85 18.61 10076- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) X 5.06 66.85 18.61			0.0	
Too Too				%
10071- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)		100	0.0	
Too71-			0.0	-
10072-				%
Table Tabl	5	100	3.0	-
Too Too		100		\dashv
Z 4.79 67.07 17.56				%
Table Tabl	;	100	2.0	
Teel Roy		100		
Table Tabl				%
Table Tabl		100	0.0	
10074-			0.0	\dashv
Table Tabl			0.0 ± 9.6	%
Table Tabl		100	5.0	$\neg \neg$
10075- IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) Y 5.08 67.18 18.60 Z 4.84 67.13 18.28 10076- IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) Y 5.06 66.85 18.66 Z 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76			0.0	-
Z 4.84 67.13 18.28 10076- IEEE 802.11g WiFi 2.4 GHz X 5.04 67.01 18.67				%
Z 4.84 67.13 18.28 10076- IEEE 802.11g WiFi 2.4 GHz X 5.04 67.01 18.67		90	.0	\dashv
10076- IEEE 802.11g WiFi 2.4 GHz		90		\dashv
Z 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76				%
Z 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76	;	90	.0	
10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76		90		\dashv
<u> </u>				%
Y 5.07 66.89 18.74		90	0	
Z 4.89 67.03 18.52		90		

10081- CAB	CDMA2000 (1xRTT, RC3)	X	1.10	69.87	14.99	0.00	150.0	± 9.6 %
<u> </u>		Y	0.78	64.74	11.83		450.0	_
		 'z	0.78	66.34	11.97	 	150.0 150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	0.69	60.00	4.39	4.77	80.0	± 9.6 %
		Y	0.71	60.00	4.39		80.0	
		Z	7.97	68.50	6.36		80.0	 -
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	115.53	26.81	6.56	60.0	± 9.6 %
		Y	100.00	114.29	26.36		60.0	
10007	THATO EDD (LIOPE)	<u> </u>	100.00	109.90	23.90		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	1.95	68.97	16.62	0.00	150.0	± 9.6 %
		Y	1.75	66.81	15.24		150.0	
10098-	LIMTO EDD (HOUDA O LL LO)	Z	1.87	68.90	_16.13		150.0	
CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.91	68.95	16.60	0.00	150.0	± 9.6 %
<u> </u>		Y	1.71	66.77	15.20		150.0	
10099-	EDOE EDD (TDMA ADOK THE A	Z	1.83	68.86	<u>16.11</u>		150.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	×	11.93	100.45	36.42	9.56	60.0	± 9.6 %
		Y	11.20	97.95	35.37		60.0	
10100-	LITE FDD (OO FDM)	Z	7.96	90.99	32.84		60.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	3.40	71.76	17.45	0.00	150.0	± 9.6 %
		Υ	3.10	69.82	16.33		150.0	
10101-	LITE EDD (SC EDMA 4000) PD 00	Z	3.12	70.91	17.03	L	150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.36	68.15	16.35	0.00	150.0	± 9.6 %
		Y	3.24	67.23	15.77		150.0	
10102-	LITE EDD (DO ED) (A 4000) ED -00	Z	3.17	67.74	16.07		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.45	68.05	16.42	0.00	150.0	± 9.6 %
	<u> </u>	Y	3.34	67.19	15.87		150.0	
10103-	LITE TOP (OO ED)	Z	3.28	67.71	16.16		150.0	
CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.86 	77.75	21.56	3.98	65.0	± 9.6 %
		Ŷ	6.56	76.62	21.10		65.0	
10104-	LITE TOP (OO EDITE 1999)	Z	5.69	75.27	20.45		65.0	
CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.41 ————	74.58	21.07	3.98	65.0	± 9.6 %
		Υ	6.33	74.04	20.86		65.0	
10105-	LITE TOD /CC FDMA 4000/ DD CO	Z	5.58	72.74	20.11		65.0	
CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.09	73.43	20.88	3.98	65.0	± 9.6 %
	 	Y	6.03	72.95	20.69		65.0	
10108-	LTE-FDD (SC-FDMA, 100% RB, 10	Z	5.24	71.29	19.75		65.0	
CAF	MHz, QPSK)	Х	2.97	70.94 ————	17.29	0.00	150.0	± 9.6 %
	 	Y	2.72	69.08	16.17		150.0	
10109-	LTE-FDD (SC-FDMA, 100% RB, 10	Ž	2.70	70.20	16.88		150.0	
CAF	MHz, 16-QAM)	X	3.02	68.05 ————	16.32	0.00	150.0	± 9.6 %
		L.Y	2.90	67.02	15. 6 6		150.0	
10110-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z	2.83	67.71	15.99		150.0	
CAF	QPSK)	X	2.42	70.09	17.00	0.00	150.0	± 9.6 %
		Y	2.21	68.14	15.78		150.0	
10111-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z	2.18	69.46	16.49		150.0	
CAF	16-QAM) RB, 5 MHz,	X	2.76	69.06	16.78	0.00	150.0	± 9.6 %
		Υ	2.59	67.59	15.88		150.0	
	<u> </u>	Z	2.59	68.99	16.39		150.0	

10112-	LTE EDD (OC FONA 1000)						•	just 23, 201
CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.14	67.97	16.35	0.00	150.0	± 9.6 %
		Y	3.03	67.00	15.72		150.0	
10113-	THE EDD (SC EDMA 4000) DD EAST	Z	2.95	67.72	16.05		150.0	
CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.92	69.11	16.87	0.00	150.0	± 9.6 %
		Υ	2.75	67.72	16.02		150.0	
10114-	IEEE DOO 44 (UE O	Z	2.74	69.14	16.51		150.0	
CAC_	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.18	67.31	16.57	0.00	150.0	± 9.6 %
		4	5.14	66.93	16.36		150.0	
10115-	IEEE 000 44 /4/E	Z	5.02	67.26	16.48		150.0	
CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.52	67.57	16.70	0.00	150.0	± 9.6 %
		Y	5.51	67.29	16.56		150.0	
10110		Z	5.27	67.30	16.50		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.29	67.56	16.61	0.00	150.0	± 9.6 %
		Y	5.27	67.21	16.43		150.0	
40447	UEEE 000 44 # # ***	Z	5.10	67.44	16.50		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.16	67.25	16.55	0.00	150.0	± 9.6 %
		Υ	5.13	66.89	16.36		150.0	
		Z	4.99	67.15	16.44		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.59	67.74	16.79	0.00	150.0	± 9.6 %
		Υ	5.60	67.49	16.67		150.0	
		Ζ	5.34	67.49	16.60		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.26	67.49	16.59	0.00	150.0	± 9.6 %
		Υ	5.24	67.15	16.41		150.0	-
		Z	5.09	67.40	16.49		150.0	
10140- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.50	68.05	16.33	0.00	150.0	± 9.6 %
		Y	3.39	67.19	15.79		150.0	
		Z	3.30	67.72	16.07		150.0	
10141- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.62	68.10	16.48	0.00	150.0	± 9.6 %
		Υ	3.51	67.27	15.96		150.0	
		Z	3.43	67.85	16.25		150.0	
10142- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	x	2.22	70.35	16.88	0.00	150.0	± 9.6 %
		Y	1.98	67.98	15.45		150.0	
		Z	1.97	69.67	16.10		150.0	
10143- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.70	70.21	16.79	0.00	150.0	± 9.6 %
		Y	2.44	68.12	15.58		150.0	
		Z	2.48	69.97	16.00		150.0	
10144- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.42	67.64	15.07	0.00	150.0	± 9.6 %
		Y	2.26	66.15	14.15	_	150.0	
		Z	2.13	66.86	13.96		150.0	
10145- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.54	68.23	14.00	0.00	150.0	± 9.6 %
		Y	1.25	64.93	12.03		150.0	
10146-	LTE EDD (SC EDMA 4000) ED 4 4	Z	1.00	63.72	10.21		150.0	
CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.38	68.67	13.30	0.00	150.0	± 9.6 %
	 	Y	2.63	70.03	14.41		150.0	
10147	LTE EDD (CO EDMA 4000) CD 1	_ Z	1.37	62.94	8.80		150.0	
10147- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	3.01	71.74	14.81	0.00	150.0	± 9.6 %
		Υ	3,44	73.73	16.16		150.0	
		Z	1.50	63.86	9.38		150.0	

10149- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	3.03	68.12	16.37	0.00	150.0	± 9.6 %
		Υ	2.91	67.08	15.71		150.0	
		Ż	2.84	67.78	16.04		150.0	-
10150- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.15	68.03	16.39	0.00	150.0	± 9.6 %
		Y	3.03	67.05	15.76		150.0	
101-1		Z	2.96	67.78	16.09		150.0	
10151- CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	7.33	80.62	22.85	3.98	65.0	± 9.6 %
		Y	6.93	79.21	22.28		65.0	
10152-	LTE TOD (CO FDMA 500) FD CO MIL	Z	6.07	78.22	21.74		65.0	
CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.98	74.73	20.92	3.98	65.0	± 9.6 %
	-	Y	5.89	74.12	20.68		6 5.0	
10153-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	5.12	72.74	19.78		65.0	
CAF	64-QAM)	X	6.33	75.57	21.65	3.98	65.0	± 9.6 %
		Y	6.23	74.94	21.41	<u> </u>	65.0	
10154-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz.	Z	5.49	73.78	20.61		65.0	
CAF	QPSK) QPSK)	X	2.49	70.63	17.32	0.00	150.0	± 9.6 %
	 	Y	2.26	68.57	16.06		150.0	
10155-	LTE EDD (CC EDMA 500) DD 40 MU	Z	2.24	69.92	16.77		150.0	
CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.77	69.07	16.79	0.00	150.0	± 9.6 %
		Υ_	2.59	67.59	15.89		150.0	
10156-	LITE EDD (SO EDMA 500) DD 51111	Z	2.59	69.02	16.41		150.0	
CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.11	70.85	16.93	0.00	150.0	± 9.6 %
·		Υ	1.83	68.04	15.26		150.0	
40457	LTC CDD (0.0 DD)	Z	1.82	69.80	15.80		150.0	
10157- CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2.31	68.61	15.35	0.00	150.0	± 9.6 %
-		Ϋ́	2.08	66.62	14.16		150.0	
40450	175 500 100 500	Z	1.98	67.47	13.92		150.0	
10158- CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.92	69.17	16.92	0.00	150.0	± 9.6 %
		Y	2.75	67.77	16.06		150.0	
40450	LTP FRE (A4 FEE FEE FEE FEE FEE FEE FEE FEE FEE FE	Z	2.75	69.22	16.57		150.0	
10159- CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.44	69.17	15.69	0.00	150.0	± 9.6 %
<u> </u>		Y	2.19	67.06	14.45		150.0	
10160-	LITE FOR (CO FEB.)	Z	2.09	67.96	14.21		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2. 9 0	69.57	16.90	0.00	150.0	± 9.6 %
		Υ	2.74	68.24	16.05		150.0	
10161-	LTE EDD (SC EDMA FOX DD 45 17)	Z	2.70	69.25	16.60		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.05	67.98	16.35	0.00	150.0	± 9.6 %
		Y	2.93	66.95	15.69		150.0	
10162-	LITE EDD (SC EDMA 500) DE 45 TE	Z	2.86	67.77	16.01		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.15 	68.06	16.42	0.00	150.0	± 9.6 %
		Y	3.03	67.06	15.79		150.0	
10166-	LTE EDD (CC EDMA FOR DE LA FOR	Z	2.97	67.96	16.14		150.0	
CAF_	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.67	69.77	19.22	3.01	150.0	± 9.6 %
		Υ	3.71	69.61	19.37		150.0	·-
10167	LTE EDD (OO ED)	Z	3.45	70.11	19.35		150.0	
10167- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.61	72.92	19.78	3.01	150.0	± 9.6 %
		Y	4.57	72.37	19.78		150.0	-
		Z						

10168- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz,	X	5.13	75.25	21.12	3.01	150.0	± 9.6 %
OA!	64-QAM)	Y	5.05	74.54	04.07		<u> </u>	
	<u> </u>	Z	5.13	74.54 77.22	21.07	<u> </u>	150.0	
10169- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.12	70.03	21.87 19.37	3.01	150.0 150.0	± 9.6 %
		Υ	3.15	69.73	19.46		150.0	- -
		Z	2.86	69.57	19.15	 	150.0	
10170- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.58	77.10	22.08	3.01	150.0	±9.6 %
	<u> </u>	Υ	4.39	75.79	21.81		150.0	
10171-	LTE EDD (00 ED)	Ζ	4.44	78.23	22.53		150.0	
AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	3.64 —	72.24	19.05	3.01	150.0	± 9.6 %
	 	Y	3.59	71.47	18.98		150.0	
10172-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	3.36	72.39	19.02		150.0	
CAF	QPSK)	Х	12.64	100.34	31.84	6.02	65.0	± 9.6 %
	 	Y	12.97	100.68	32.37		65.0	
10173-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	5.77	87.24	27.51	ļ <u> </u>	65.0	
CAF	16-QAM)	X	36.96	114.71	33.67	6.02	65.0	± 9.6 %
	 	<u>Y</u> .	30.92	112.16	33.64		65.0	
10174-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	22.36	108.00	31.61		65.0	
CAF	64-QAM)	X	22.92	104.35	30.17	6.02	65.0	± 9.6 %
		Y	21.96	104.04	30.70		65.0	_
10175-	LTE EDD (SC EDMA 4 DD 40 MU)	Z	11.65	95.24	27.25		65.0	
CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.08	69.68	19.10	3.01	150.0	± 9.6 %
		Y	3.11	69.39	19.20		150.0	
10176-	LTE EDD (CC EDMA 4 DD 40 MIL	Z	2.82	69.22	18.88		150.0	
CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	4.59	77.13	22.09	3.01	150.0	± 9.6 %
	 	Y	4.40	75.82	21.82		150.0	
10177-	LTE-FDD (SC-FDMA, 1 RB, 5 MHz,	<u>Z</u>	4.45	78.26	22.55		150.0	
CAH	QPSK)	X	3.11	69.85	19.21	3.01	150.0	± 9.6 %
	 	Y	3.14	69.56	19.30		150.0	
10178-	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-	Z_	2.84	69.38	18.97		150.0	
CAF	QAM)	X	4.53	76.83	21.94	3.01	150.0	± 9.6 %
		Y	4.34	75.53	21.68		150.0	
10179- CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.39 4.06	77.99 74.50	22.42	3.01	150.0 150.0	± 9.6 %
		Y	3.95	73.49	20.26		150.0	
		Z	3.83	75.09	20.61		150.0	_
10180- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.62	72.15	18.99	3.01	150.0	± 9.6 %
		Υ	3.58	71.38	18.93	_	150.0	
		Z	3.35	72.32	18.97		150.0	
10181- CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.10	69.83	19.20	3.01	150.0	± 9.6 %
		Ϋ́	3.13	69.54	19.29		150.0	
40400	LITE EDD VOC EDWARD TO THE STATE OF THE STAT	Z	2.84	69.36	18.97		150.0	
10182- CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	×	4.52	76.80	21.93	3.01	150.0	± 9.6 %
_		Υ	4.33	75.51	21.66		150.0	
40460	LITE EDD (OO ED)	Z	4.38	77.96	22.40		150.0	
10183- AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.62	72.12	18.97	3.01	150.0	± 9.6 %
		Υ	3.57	71.35	18.91		150.0	
		Z	<u>3.</u> 34	72.29	18.96		150.0	L

10184- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	3.11	69.88	19.22	3.01	150.0	± 9.6 %
		Y	3.14	69.58	19.32		150.0	
		ż	2.85	69.41	18.99	 	150.0	
10185- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	4.54	76.88	21.97	3.01	150.0	± 9.6 %
		Υ	4.35	75.59	21.70		150.0	
		Z	4.41	78.06	22.45		150.0	
10186- AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	3.64	72.20	19.01	3.01	150.0	± 9.6 %
	<u> </u>	Υ	3.59	71.42	18.95		150.0	
40407		Z	3.36	72.37	19.00		150.0	
10187- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.12	69.93	19.28	3.01	150.0	± 9.6 %
		Υ	3.15	69.63	19.37		150.0	
10188-	LTE EDD (CO EDIA) A DD A ()	Z	2.86	69.48	19.07		150.0	
CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	4.72	77.70	22.40	3.01	150.0	± 9.6 %
<u> </u>		Υ	4.51	76.33	22.11		150.0	
10189-	LTE EDD (OC EDM) + DD + + + +	Z	4.61	78.98	22.92		150.0	
10189- AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	3.73	72.70	19.32	3.01	150.0	± 9.6 %
	 	Y	3.67	71.88	19.24		150.0	
10193-	JEEE 900 445 /UT Out - State O 5 M	Z	3.46	72.92	19.33		150.0	
CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.59	66.76	16.33	0.00	150.0	± 9.6 %
		Υ	4.55	66.31	16.09		150.0	
10194-	1555 900 445 (UT On 15 14 90 14)	Z	4.42	66.80	16.19		150.0	
CAC_	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.77	67.10	16.45	0.00	150.0	± 9.6 %
		Y_	4.74	66.66	16.21		150.0	
10105	VEEL 000 44 /VE O	Z	4.58	67.08	16.32		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.82	67.12	16.46	0.00	150.0	± 9.6 %
		Υ	4.78	66.69	16.22		150.0	
10100	IEEE 000 44 (IEEE	Z	4.62	67.10	16.34		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.60	66.84	16.36	0.00	150.0	±9.6 %
		Υ	4.56	66.40	16.12		150.0	
40407		Z	4.41	66.83	16.20		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.79	67.12	16.46	0.00	150.0	± 9.6 %
		Υ	4.75	66.69	16.22		150.0	
10198-	JEEE 900 145 / JEAN OF AU	Z	4.59	67.09	16.33		150.0	
CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.82	67.14	16.47	0.00	150.0	± 9.6 %
		\ \ \	4.78	66.71	16.24		150.0	
10219-	IEEE 802.11n (HT Mixed, 7.2 Mbps,	Z	4.61	67.11	16.35		150.0	
CAC	BPSK)	X	4.55	66.86	16.33	0.00	150.0	± 9.6 %
	 	Y	4.51	66.41	16.08		150.0	
10220-	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-	Z	4.37	66.86	16.17	<u> </u>	150.0	
CAC	QAM)	X	4.79	67.10	16.45	0.00	150.0	±9.6 %
		Y	4.75	66.67	16.22	ļ	150.0	_
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.58 4.83	67.05 67.06	16.32 16.45	0.00	150.0 150.0	± 9.6 %
		Υ	4.79	66.64	10.00		450.0	
		Z	4.62	67.04	16.23		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	X	5.14		16.33	0.00	150.0	
CAC	BPSK)			67.26	16.55	0.00	150.0	± 9.6 %
		Ŷ	5.11	66.90	16.36		150.0	
		<u>Z</u>	4.97	67.15	16.43		150.0	

10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	T 52			,			_
CAC	QAM)	X	5.45	67.43	16.65	0.00	150.0	± 9.6 %
<u> </u>		Y	5.45	67.18	16.52		150.0	
10224-	IEEE 802.11n (HT Mixed, 150 Mbps, 64-	Z	5.25	67.35	16.55	<u> </u>	150.0	
CAC	QAM)	X	5.19	67.37	16.53	0.00	150.0	± 9.6 %
	 	Y	5.15	66.99	16.33		150.0	
10225-	LIMITE COD (LICENA)	Z	5.01	67.26	16.42		150.0	<u> </u>
CAB	UMTS-FDD (HSPA+)	X	2.89	66.55	15.78	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.80	6 <u>5.7</u> 1	15.24		150.0	
10226-	LTE TOO (OO ED) (A 1 ED)	Z	2.72	66.49	15.32		150.0	
CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	42.12	117.30	34.47	6.02	65.0	± 9.6 %
		Y	34.39	114.35	34.35		65.0	
10227-	LITE TOP (00 FDIA 4 PP	Z	25.78	110.75	32.49		65.0	
CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	33.34	110.83	32.01	6.02	65.0	± 9.6 %
		Υ	29.14	109.23	32.25		65.0	
10000	LITE TOP (OO FD)	Z	23.91	107.08	30.63		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	15.66	105.06	33.38	6.02	65.0	± 9.6 %
		Υ	15.84	105.37	33.95		65.0	
40000	LITE TOD (DO DO	Z	7.75	93.33	29.68	<u> </u>	65.0	
10229- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	37.28	114.84	33.72	6.02	65.0	± 9.6 %
		Υ	31.13	112.26	33.67		65.0	
40000		Z	22.62	108.17	31.67		65.0	-
10230- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	29.88	108.76	31.36	6.02	65.0	± 9.6 %
		Y	26.58	107.43	31.66		65.0	
		Z	20.85	104.61	29.86		65.0	
10231- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	14.65	103.59	32.85	6.02	65.0	± 9.6 %
		Y	14.88	103.95	33.43		65.0	
_		Z	7.34	92.15	29.19		65.0	
10232- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	37.25	114.84	33.71	6.02	65.0	± 9.6 %
		Ý	31.10	112.26	33.67		65.0	
		Z	22.58	108.16	31.67		65.0	
10233- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	29.82	108.74	31.35	6.02	65.0	± 9.6 %
		Υ	26.53	107.41	31.66		65.0	
		Ž	20.76	104.56	29.85	<u>-</u>	65.0	
10234- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	×	13.83	102.21	32.30	6.02	65.0	± 9.6 %
		Y	14.10	102.64	32.91		65.0	
		Z	7.03	91.14	28.71		65.0	
10235- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	37.39	114.93	33.74	6.02	65.0	± 9.6 %
		_Y	31.21	112.34	33.70		65.0	
		Z	22.65	108.24	31.69		65.0	
10236- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	30.43	109.05	31.43	6.02	65.0	± 9.6 %
		Υ	27.03	107.71	31.73		65.0	
		Z	21.22	104.87	29.93		65.0	
10237- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	14.73	103.74	32.90	6.02	65.0	± 9.6 %
		Υ	14.96	104.11	33.48		65.0	
		Z	7.35	92.21	29.22		65.0	
10238- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	37.20	114.83	33.71	6.02	65.0	± 9.6 %
		Y	31.07	112.26	33.67	-	65.0	
			01.01	1 2 20	JJ.07		יו כסן	

10239- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	29.73	108.72	31.35	6.02	65.0	± 9.6 %
		Υ	26.48	107.40	31.66		65.0	
		Z	20.66	104.50	29.83		65.0	
10240- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	14.67	103.66	32.88	6.02	65.0	± 9.6 %
		Υ	14.89	104.03	33.46		65.0	
		Z	7.33	92.17	29.20		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.22	81.62	25.84	6.98	65.0	± 9.6 %
		Υ	8.21	81.11	25.93	_	65.0	- <u>-</u>
		Z	7.55	81.89	25.74		65.0	
10242- C <u>AA</u>	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.60	79.92	25.06	6.98	65.0	± 9.6 %
		Υ	7.70	79.68	25.24		65.0	
		Z	6.63	79.21	24.57		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	6.06	76.28	24.43	6.98	65.0	± 9.6 %
		Y	6.20	76.29	24.69		65.0	
		Ζ	5.27	75.02	23.70		65.0	
10244- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	6.94	79.13	20.40	3.98	65.0	± 9.6 %
		Y	7.61	80.93	21.65		65.0	
10015		Z	4.63	73.01	16.54		65.0	
10245- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	6.74	78.35	20.03	3.98	65.0	± 9.6 %
		Υ	7.38	80.11	21.28		65.0	
		Z	4.46	72.20	16.14		65.0	-
10246- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	8.26	86.16	23.38	3.98	65.0	± 9.6 %
	<u> </u>	Υ	7.07	83.23	22.34		65.0	
		Z	4.76	77.46	19.00		65.0	-
10247- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.60	76.50	20.35	3.98	65.0	± 9.6 %
		Υ	5.37	75.45	19.96		65.0	_
		Z	4.29	72.64	17.71		65.0	
10248- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.54	75.70	19.98	3.98	65.0	± 9.6 %
		Υ	5.35	74.79	19.65		65.0	
		Z	4.24	71.91	17.36		65.0	
10249- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.19	88.24	24.95	3.98	65.0	± 9.6 %
	<u> </u>	Υ	7.96	85.32	23.90		65.0	
40000		Ζ	6.28	82.28	22.02		65.0	
10250- CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.20	77.76	22.32	3.98	65.0	± 9.6 %
		Υ	6.01	76.85	21.97		65.0	
10057	LT5 700 (00 == 1)	Z	5.20	75.42	20.86		65.0	
10251- _CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	5.85 	75.32	20.92	3.98	65.0	± 9.6 %
		Υ	5.73	74.58	20.63		65.0	
40050	LTS TOD (00 FD)	Z	4.92	73.12	19.45		65.0	
10252- CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	8.09	84.95	24.58	3.98	65.0	± 9.6 %
	<u> </u>	Y	7.42	82.94	23.81		65.0	
10050	LITE TOP (00 FPM)	Z	6.31	81.52	22.96		65.0	
10253- CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	5.80	74.00	20.63	3.98	65.0	± 9.6 %
		Y	5.72	73.40	20.39		65.0	
10051	LITE TOP (00 Providence)	Z	5.04	72.28	19.52		65.0	
10254- CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	6.14	74.84	21.30	3.98	65.0	± 9.6 %
		1						
	-	Υ	6.05	74.22	21.07		65.0	

10255-	LITE TOD (OO EDIM SOOL DE							
CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.81	79.50	22.67	3.98	65.0	± 9.6 %
 _		Y	6.50	78.25	22.16		65.0	
40050		Z	5.72	77.37	21.59	 	65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	5.54	75.38	17.88	3.98	65.0	± 9.6 %
		Y	6.45	78.02	19.55		65.0	
		Z	3.15	67.52	12.83		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	5.31	74.31	17.34	3.98	65.0	± 9.6 %
		Y	<u>6.</u> 14	76.80	18.96		65.0	
40050		Z	3.05	66.79	12.37		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	6.24	81.13	20.76	3.98	65.0	± 9.6 %
	 	Y	5.52	78.91	19.97		65.0	T
40050		Z	3.09	70.62	15.05		65.0	
10259- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.84	76.93	21.04	3.98	65.0	± 9.6 %
		Υ	5.63	75.94	20.66		65.0	
40000	LTE TRR (00 FRM)	Z	4.68	73.82	18.92		65.0	
10260- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.84	76.54	20.88	3.98	65.0	± 9.6 %
	<u> </u>	Y	5.65	75.62	20.54		65.0	-
40002	LITE TOP (00 == 1)	Z	4.68	73.47	18.76	<u> </u>	65.0	<u> </u>
10261- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	7.94	85.32	24.30	3.98	65.0	± 9.6 %
		Y	7.17	83.07	23.45		65.0	
		Z	5.90	80.89	22.01		65.0	
10262- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	6.19	77.72	22.28	3.98	65.0	± 9.6 %
		Υ	6.00	76.81	21.93	_	65.0	
		Z	5.19	75.36	20.81		65.0	-
10263- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.84	75.30	20.91	3.98	65.0	± 9.6 %
		Υ	5.72	74.57	20.63		65.0	
		Z	4.91	73.09	19.44	_	65.0	
10264- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	8.00	84.72	24.48	3.98	65.0	± 9.6 %
		LY.	7.34	82.73	23.71		65.0	
<u> </u>		Z	6.24	81.28	22.84		65.0	
10265- CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.98	74.73	20.93	3.98	65.0	± 9.6 %
		Y	5.89	74.12	20.69		65.0	
		Z	5.12	72.74	19.78		65.0	
10266- _CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	6.33	75.56	21.64	3.98	65.0	± 9.6 %
		Υ	6.22	74.93	21.40		65.0	
4005=		Z	5.49	73.76	20.60		65.0	1
10267- CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	7.32	80.56	2 2.82	3.98	65.0	± 9.6 %
	<u> </u>	Υ	6.92	79.16	22.26		65.0	
40000	177 777 700 771	Z	6.05	78.17	21.72		65.0	
10268- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.52	74.24	21.04	3.98	65.0	± 9.6 %
		Y	6.45	73.73	20.85		65.0	
10000	LITE TOD (OO ED) (A COCCUETO C	Z	5.74	72.63	20.16		65.0	
10269- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.46	73.71	20.87	3.98	65.0	± 9.6 %
	 	Υ	6.39	73.22	20.69		65.0	
40070	LTE TOP (00 STATE OF THE STATE	Z	5.73	72.22	20.02		65.0	
10270- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	6.79	76.82	21.42	3.98	65.0	± 9.6 %
		Υ	6.57	75.90	21.04		65.0	<u> </u>
		Z	5.88	75.11	20.59		65.0	_

Y 2.54 65.90 15.04 150.0 10276- 10	10274-	UMTS-FDD (HSUPA, Subtest 5, 3GPP	Х	2.66	66.98	15.73	0.00	150.0	± 9.6 %
10275- LMTS-FDD (HSUPA, Subtest 5, 3GPP X 1.78 69.77 16.72 0.00 150.0 ± 9.6 %	CAB	Rel8.10)	<u> </u>			<u> </u>			
10279- CAA PHS (OPSK) PHS (OPSK, BW 884MHz, Rolloff 0.36) CDMA2000, RC1, SO55, Full Rate AB CDMA2000, RC3, SC35, Full Rate AB AB CDMA2000, RC3, SC35, Full Rate AB CDMA2000, RC3, SC35, Full Rate AB CDMA2000, RC3, SC35, Full Rate AB AB CDMA2000, RC3, SC35, Full Rate AB AB CDMA2000, RC3, SC35, Full Rate AB AB AB CDMA2000, RC3, SC35, Full Rate AB AB AB AB CDMA2000, RC3, SC35, Full Rate AB									
CAB	10275	LIMTO EDD (HOUDA O L. A.E. CORD					<u> </u>		_
10277- CAA						16.72	0.00	150.0	± 9.6 %
10277-					67.13	15.03		150.0	
10279- PHS (GPSK)				1.62	69.04	16.02		150.0	
TOZ78-CAA		PHS (QPSK)			<u>L</u>		9.03		± 9.6 %
10279- CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) X 10.93 86.19 21.29 9.03 50.0 ±9.6 % Y 9.64 84.41 20.95 50.0 10279- PHS (QPSK, BW 684MHz, Rolloff 0.36) X 11.22 86.49 21.46 9.03 50.0 ±9.6 % Y 9.91 84.71 21.11 50.0 10290- CAA PHS (QPSK, BW 684MHz, Rolloff 0.36) X 11.22 86.49 21.46 9.03 50.0 ±9.6 % Y 9.91 84.71 21.11 50.0 10290- CAA CDMA2000, RC1, SO55, Full Rate X 1.95 72.86 16.32 0.00 150.0 ±9.6 % X 1.95 72.86 16.32 0.00 150.0 ±9.6 % Y 1.38 67.46 13.46 150.0 10291- AAB CDMA2000, RC3, SO55, Full Rate X 1.96 89.47 14.79 0.00 150.0 ±9.6 % Y 0.76 64.53 11.71 150.0 10292- AAB CDMA2000, RC3, SO32, Full Rate X 1.93 13.68 150.0 Y 0.91 67.73 13.68 150.0 10293- AAB CDMA2000, RC3, SO3, Full Rate X 1.94 73.93 15.68 150.0 Y 0.91 67.73 13.68 150.0 10293- AAB CDMA2000, RC3, SO3, Full Rate X 1.31 72.72 16.40 Y 1.31 72.72 16.40 CDMA2000, RC3, SO3, Full Rate X 1.34 73.93 15.68 150.0 10293- AAB CDMA2000, RC3, SO3, Full Rate X 1.34 73.93 15.68 150.0 10294- AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. X 10.69 89.87 26.40 9.03 50.0 ±9.6 % 10295- AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. X 10.25 89.80 24.68 50.0 10297- AAD CDMA2000, RC1, SO3, 1/8th Rate 25 fr. X 10.25 89.88 24.68 50.0 10298- AAD CDMA2000, RC1, SO3, RB, 20 MHz, X 2.72 70.32 16.96 150.0 10298- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.90 70.47 15.90 0.00 150.0 ±9.6 % Y 2.273 69.18 16.24 150.0 CPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.90 70.47 15.90 0.00 150.0 ±9.6 % 10298- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.91 66.26 12.34 0.00 150.0 ±9.6 % 10300- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.91 66.26 12.34 0.00 150.0 ±9.6 % 10301- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.91 66.26 12.34 0.00 150.0 ±9.6 % 10302- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.91 66.26 12.34 0.00 150.0 ±9.6 % 10303- AAB LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.91 66.26 12.34 0.00 150.0 ±9.6 % 10304- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.91 66.26 12.34 0.00 150.0 ±9.6 % 10306- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.91 66.26 1		-						50.0	<u>-</u>
CAA Y 9.64 84.41 20.95 50.0 10279-CAA PHS (QPSK, BW 864MHz, Rolloff 0.36) X 11.22 86.49 21.46 9.03 50.0 ±9.6 % 10279-CAA PHS (QPSK, BW 864MHz, Rolloff 0.36) X 11.22 86.49 21.46 9.03 50.0 ±9.6 % 10290-CAA Y 9.91 84.71 21.11 50.0 ±9.6 % 10290-CAB Y 9.91 84.71 21.11 50.0 ±9.6 % 10291-CAB Y 1.38 67.46 13.46 150.0 ±9.6 % 10291-CAB Z 1.38 67.46 13.46 150.0 ±9.6 % 10292-CAB CDMA2000, RC3, SO32, Full Rate X 1.06 69.47 14.79 0.00 150.0 ±9.6 % 10292-CAB CDMA2000, RC3, SO32, Full Rate X 1.83 78.35 18.94 0.00 150.0 ±9.6 % 10293-CAB Y 0.91 67.73 13.68 150.0 150.0 <td>40070</td> <td>TILO (O DOL)</td> <td></td> <td></td> <td></td> <td>5.78</td> <td></td> <td>50.0</td> <td></td>	40070	TILO (O DOL)				5.78		50.0	
10279- CAA	-	PHS (QPSK, BW 884MHz, Rolloff 0.5)					9.03	50.0	± 9.6 %
10279- CAA PHS (QPSK, BW 864MHz, Rolloff 0.38) X 11.22 86.49 21.46 9.03 50.0 ±9.6 % Y 9.91 84.71 21.11 50.0 Z 3.69 69.35 13.38 50.0 10290- CDMA2000, RC1, SO55, Full Rate X 1.95 72.86 16.32 0.00 150.0 ±9.6 % Y 1.38 67.46 13.46 150.0 10291- CDMA2000, RC3, SO55, Full Rate X 1.08 69.47 14.79 0.00 150.0 ±9.6 % Y 0.76 64.53 11.71 150.0 10292- AAB CDMA2000, RC3, SO32, Full Rate X 1.08 69.47 14.79 0.00 150.0 ±9.6 % Y 0.76 66.05 111.81 150.0 10292- AAB CDMA2000, RC3, SO32, Full Rate X 1.33 78.35 18.94 0.00 150.0 ±9.6 % Y 0.91 67.73 13.68 150.0 10293- AAB CDMA2000, RC3, SO3, Full Rate X 1.33 78.35 18.94 0.00 150.0 ±9.6 % Y 0.91 67.73 13.68 150.0 10293- AAB CDMA2000, RC3, SO3, Full Rate X 4.73 93.04 24.47 0.00 150.0 ±9.6 % Y 1.025 88.78 28.40 9.03 50.0 ±9.6 % 10295- AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. X 10.60 89.87 26.40 9.03 50.0 ±9.6 % Y 10.25 88.78 28.09 24.88 50.0 10297- LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) Y 1.56 67.01 13.91 150.0 10298- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.96 67.07 13.50 150.0 ±9.6 % Y 1.56 67.01 13.91 150.0 10299- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.90 70.47 15.90 0.00 150.0 ±9.6 % Y 1.56 67.01 13.91 150.0 LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.90 70.47 15.90 0.00 150.0 ±9.6 % Y 1.56 67.01 13.91 150.0 LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.90 70.47 15.90 0.00 150.0 ±9.6 % Y 1.56 67.01 13.91 150.0 LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.90 70.47 15.90 0.00 150.0 ±9.6 % Y 1.56 67.01 13.91 150.0 LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 1.90 66.60 12.34 0.00 150.0 ±9.6 % Y 2.217 67.61 12.32 150.0 10300- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 2.99 66.60 13.00 150.0 ±9.6 % Y 2.31 66.80 13.02 150.0 150.0 ±9.6 % Y 4.487 65.32 17.50 50.0 150.0 ±9.6 % Y 4.487 65.32 17.50 50.0 150.0 ±9.6 % Y 4.487 65.32 17.50 50.0 150.0 ±9.6 % HEEE 802.16e WiMAX (28:18, 5ms, X 4.82 66.43 17.57 4.17 50.0 ±9.6 % IOMHz, QPSK, PUSC) 74 487 65.32 17.50 50.0 ±9.6 % IOMHz, QPSK, PUSC) 74 5.88 66.00 18.25 50.0 ±9.6 %								50.0	
CAA Y 9.91 84.71 21.11 50.0	40070	TILE VANDALE NAME OF THE PARTY	Z					50.0	
10290- AAB		PHS (QPSK, BW 884MHz, Rolloff 0.38)	Х		86.49		9.03	50.0	± 9.6 %
10290- AAB						21.11		50.0	
10290- AAB	40000			3.69	69.35	13.38			_
10291- CDMA2000, RC3, SO55, Full Rate		CDMA2000, RC1, SO55, Full Rate	Х	1.95	72.86		0.00		± 9.6 %
TOURA TOUR				1.38	67.46	13.46		150.0	
10291- AAB			Z	1.34					
CDMA2000, RC3, SO32, Full Rate X 1.83 78.35 18.94 0.00 150.0 ±9.6 %		CDMA2000, RC3, SO55, Full Rate	X	1.06	69.47		0.00		± 9.6 %
CDMA2000, RC3, SO32, Full Rate			Υ	0.76	64.53	11.71		150.0	
10292-			Z	0.76					
10293- AAB		CDMA2000, RC3, SO32, Full Rate	Х	1.83			0.00		± 9.6 %
10293- AAB CDMA2000, RC3, SO3, Full Rate X 4.73 93.04 24.47 0.00 150.0 ± 9.6 %			Y	0.91	67.73	13 68		150 0	
CDMA2000, RC3, SO3, Full Rate							 		
TO295- AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. X 10.60 89.87 26.40 9.03 50.0 ± 9.6 %		CDMA2000, RC3, SO3, Full Rate	X				0.00		± 9.6 %
10295- AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. X 10.60 89.87 26.40 9.03 50.0 ± 9.6 %			Y	1.31	72.72	16.40		150.0	
10295- CDMA2000, RC1, SO3, 1/8th Rate 25 fr. X 10.60 89.87 26.40 9.03 50.0 ±9.6 % Y 10.25 88.78 26.08 50.0									
Total Color		CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X				9.03		± 9.6 %
The first color of the first c			Y	10.25	88.78	26.08	<u> </u>	50.0	
10297- AAD CPSK									
10298- LTE-FDD (SC-FDMA, 50% RB, 3 MHz, ADD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, ADDD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, ADD		LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)					0.00		± 9.6 %
10298- LTE-FDD (SC-FDMA, 50% RB, 3 MHz, ADD LTE-FD			Υ	2.73	69.18	16.24		150.0	
TE-FDD (SC-FDMA, 50% RB, 3 MHz, ADD TO.47			Z						
10299- LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 3.07 71.64 15.53 0.00 150.0 ± 9.6 %			X	1.90			0.00		± 9.6 %
10299- LTE-FDD (SC-FDMA, 50% RB, 3 MHz, X 3.07 71.64 15.53 0.00 150.0 ± 9.6 %			Υ	1.56	67.01	13.91		150.0	
TE-FDD (SC-FDMA, 50% RB, 3 MHz, ADD 150.0	40000		Z	1.44					-
10300- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, AAD 64-QAM) Y 2.31 66.80 13.02 150.0 ± 9.6 % Y 2.31 66.80 13.02 150.0 150.0 ± 9.6 % Z 1.57 63.33 9.50 150.0 1			X		71.64		0.00		± 9.6 %
10300- LTE-FDD (SC-FDMA, 50% RB, 3 MHz, ADD LTE-FD				3.23	72.42	16.33		150.0	
10300- AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz,	40000	<u></u>							
10301- AAA IEEE 802.16e WiMAX (29:18, 5ms, AAA 10MHz, QPSK, PUSC) 10302- AAA IEEE 802.16e WiMAX (29:18, 5ms, AAA 10MHz, QPSK, PUSC) 10302- AAA IEEE 802.16e WiMAX (29:18, 5ms, AAA 10MHz, QPSK, PUSC, 3 CTRL symbols) Y 4.87 65.32 17.50 50.0 Z 4.60 65.72 17.49 50.0 Y 5.36 66.17 18.35 4.96 50.0 ± 9.6 %		LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)		2.19			0.00		± 9.6 %
10301- AAA IEEE 802.16e WiMAX (29:18, 5ms, AAA 10MHz, QPSK, PUSC) Y 4.87 65.32 17.50 50.0 Z 4.60 65.72 17.49 50.0 10302- AAA 10MHz, QPSK, PUSC, 3 CTRL symbols) Y 5.36 66.00 18.25 50.0					66.80	13.02	_	150.0	
10301- AAA IEEE 802.16e WiMAX (29:18, 5ms, AAA 10MHz, QPSK, PUSC) Y 4.87 65.32 17.50 50.0 50.0 10302- AAA IEEE 802.16e WiMAX (29:18, 5ms, AAA 10MHz, QPSK, PUSC, 3 CTRL symbols) X 5.31 66.17 18.35 4.96 50.0 ± 9.6 % Y 5.36 66.00 18.25 50.0	40004			1.57					
10302- AAA IEEE 802.16e WiMAX (29:18, 5ms, X 5.31 66.17 18.35 4.96 50.0 ± 9.6 % Y 5.36 66.00 18.25 50.0		IEEE 802.16e WIMAX (29.18, 5ms, 10MHz, QPSK, PUSC)		4.82			4.17		± 9.6 %
10302- AAA IEEE 802.16e WiMAX (29:18, 5ms, AAA 10MHz, QPSK, PUSC, 3 CTRL symbols) Y 5.36 66.00 18.25 50.0			Υ	4.87	65.32	17.50		50.0	
10302- AAA IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) X 5.31 66.17 18.35 4.96 50.0 ± 9.6 %									
Y 5.36 66.00 18.25 50.0		IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X				4.96		± 9.6 %
7 -00 -000			Ý	5.36	66.00	18.25		E0.0	
			Ż	5.00	66.00	18.02		50.0	

10303-	IEEE 902 46- WENANY (04 45 5							
AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.06	65.83	18.21	4.96	50.0	± 9.6 %
		Y	5.11	65.70	18.12		50.0	
10304-	IEEE 000 40 MINAN 100	Z	4.75	65.61	17.82		50.0	
AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.87	65.69	17.69	4.17	50.0	± 9.6 %
	- 	ΙÝ	4.90	65.47	17.55		50.0	
40005	IEEE CO. 40 AMERICAN	Z	4.58	65.56	17.35		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.43	67.35	19.83	6.02	35.0	± 9.6 %
		Υ	4.56	67.70	19.98		35.0	
10306-	IEEE 000 40 James 40	Z	4.15	67.17	19.10		35.0	<u> </u>
AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.77	66.43	19.36	6.02	35.0	± 9.6 %
	<u> </u>	Y	4.86	66.61	19.45		35.0	-
10007	IEEE 000 40 NW NO	Z	4.49	66.31	18.82		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	4.67	66.65	19.36	6.02	35.0	± 9.6 %
		Y	4.78	66.88	19.46		35.0	
40000	IDEE 646 to the second	Z	4.37	66.39	18.75		35.0	
10308- _AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	4.64	66.81	19.48	6.02	35.0	± 9.6 %
		Υ	4.74	67.03	19.58		35.0	
40000		Ž	4.35	66.60	18.90		35.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.84	66.72	19.54	6.02	35.0	± 9.6 %
		Y	4.94	66.92	19.63		35.0	
		Z	4.52	66.47	18.95		35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	4.71	66.49	19.33	6.02	35.0	± 9.6 %
		Y	4.81	66.68	19.42		35.0	
		Ž	4.43	66.37	18.80		35.0	
10311- AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.36	70.26	16.95	0.00	150.0	± 9.6 %
		Υ	3.08	68.46	15.91		150.0	
		Z	3.08	69.51	16.57		150.0	
10313- AAA	IDEN 1:3	Х	5.95	81.40	19.48	6.99	70.0	± 9.6 %
		Y	4.30	76.35	17.48		70.0	
		Z	3.21	73.80	16.43		70.0	
10314- AAA	iDEN 1:6	X	12.17	97.07	27.72	10.00	30.0	± 9.6 %
		Y	7.44	87.94	24.60		30.0	
		Z	6.18	85.76	23.72		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.10	64.61	16.02	0.17	150.0	± 9.6 %
		Y	1.01	63.21	14.85		150.0	
		Z	1.05	64.14	15.48		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.65	66.81	16.47	0.17	150.0	± 9.6 %
		Y	4.62	66.42	16.27		150.0	<u> </u>
	<u> </u>	Z	4.46	66.78	16.31		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X.	4.65	66.81	16.47	0.17	150.0	± 9.6 %
		Y	4.62	66.42	16.27		150.0	
40400	1555 000 44 100 100	Z	4.46	66.78	16.31		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.78	67.16	16.44	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.74	66.73	16.21		150.0	
40/0/	UEEE 000 44	Z	4.55	67.11	16.31		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.43	67.23	16.53	0.00	150.0	± 9.6 %
		Υ	5.42	66.92	16.38		150.0	
		Z	5.24	67.11	16.40		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.71	67.66	16.59	0.00	150.0	± 9.6 %
		Y	5.70	67.34	16.43		150.0	
		Z	5.52	67.48	16.45		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.95	72.86	16.32	0.00	115.0	± 9.6 %
		Y	1.38	67.46	13.46	_	115.0	
		Z	1.34	68.81	13.27		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.95	72.86	16.32	0.00	115.0	± 9.6 %
		Y	1.38	67.46	13.46		115.0	
40.00		Z	1.34	68.81	13.27		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	122.38	30.73	0.00	100.0	± 9.6 %
		Υ	81.48	123.67	32.28		100.0	
10110		Z	100.00	114.83	26.66		100.0	
10410- AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	123.65	31.04	3.23	80.0	± 9.6 %
	<u> </u>	Υ	100.00	127.30	33.02		80.0	1 —
10.11		Z	100.00	122.18	29.60		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.02	63.74	15.40	0.00	150.0	± 9.6 %
		Υ	0.94	62.36	14.20		150.0	
	<u> </u>	Z	0.99	63.49	14.99		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.59	66.79	16.39	0.00	150.0	± 9.6 %
		_ Y	4.55	66.36	16.15		150.0	
		Z	4.42	66.82	16.27		150.0	
10417- _AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.59	66.79	16.39	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.55	66.36	16.15	_	150.0	
40445	· 	Z	4.42	66.82	16.27		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.58	66.96	16.41	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.54	66.49	16.15		150.0	
40440		Z	4.42	67.01	16.31		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.61	66.90	16.41	0.00	150.0	± 9.6 %
		Υ	4.56	66.45	16.16		150.0	
40.000		Z	4.43	66.95	16.30		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.73	66.90	16.41	0.00	150.0	± 9.6 %
	 	Y	4.69	66.47	16.18		150.0	
10400	IEEE OOD 44 WIT 6	Z	4.54	66.92	16.31		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.91	67.24	16.54	0.00	150.0	± 9.6 %
		Y	4.87	66.82	16.31		150.0	
10424	IEEE 000 44- 01T 0	Z	4.68	67.21	16.40		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	Х	4.82	67.19	16.51	0.00	150.0	± 9.6 %
	 	Y	4.79	66.76	16.28		150.0	
10425-	IEEE 902 11n /HT Consessation 4 5 12	Z	4.61	67.16	16.38		150.0	
AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.41	67.47	16.65	0.00	150.0	± 9.6 %
		_ <u>Y</u>	5.40	67.17	16.50		150.0	
10426-	IEEE 900 44 m (IEE 0	Z	5.21	67.35	16.53		150.0	
AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.41	67.47	16.65	0.00	150.0	± 9.6 %
	 	Y	5.40	67.19	16.50		150.0	
	<u></u>	Z	5.23	67.42	16.56		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.42	67.47	16.64	0.00	150.0	± 9.6 %
		Y	5.41	67.16	16.48	 	150.0	
10.00		Z	5.22	67.32	16.51	 	150.0	
10430- AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.40	71.17	18.58	0.00	150.0	± 9.6 %
	-	Y	4.23	70.08	17.99		150.0	
40404		Z	4.30	72.10	18.56		150.0	
10431- AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.31	67.42	16.46	0.00	150.0	±9.6 %
	-	Y	4.26	66.88	16.15		150.0	
10432-	LTE EDD (CEDIA)	Z	4.07	67.45	16.24		150.0	
AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	4.60	67.26	16.49	0.00	150.0	± 9.6 %
	 	Y	4.56	66.79	16.22		150.0	_
10433-	LTE EDD (CED) (A	Z	4.38	67.26	16.33		150.0	
AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.84	67.23	16.53	0.00	150.0	± 9.6 %
		Υ	4.80	66.80	16.30		150.0	
10434-	W CDMA (BC Took Market A CA B Doors	Z	4.63	67.20	16.40		150.0	
AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.54	72.17	18.64	0.00	150.0	± 9.6 %
	 	Y	4.31	70.81	17.94		150.0	
10435-	LTE TOD (CC FDMA 4 DD CC + H)	Z	4.47	73.20	18.53		150.0	
AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.43	30.93	3.23	80.0	± 9.6 %
		Υ	100.00	127.09	32.93		80.0	
10447-	LITE EDD (OFDIA) E LUI E ETTA	Ζ	100.00	121.88	29.46		80.0	
AAC AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)		3.63 	67.60	15.97	0.00	150.0	± 9.6 %
	 	Υ _	3.55	66.82	15.51		150.0	
40440	1 TE ED 2 (0 ED)	<u>Z</u>	3.36	67.49	15.39		150.0	
10448- AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	×	4.14	67.21	16.33	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.08	66.64	16.00		150.0	
40440		_ Z	3.93	67.24	16.11		150.0	
10449- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.40	67.10	16.39	0.00	150.0	± 9.6 %
		Υ	4.35	66.60	16. <u>1</u> 1		150.0	_
40.150		Z	4.21	67.10	16.24		150.0	
10450- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.59	67.00	16.40	0.00	150.0	± 9.6 %
		Ϋ́	4.54	66.54	16.14		150.0	
10151	144.004.00	<u>Z</u>	4.41	66.98	16.27		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	×	3.56	67.91	15.68	0.00	150.0	± 9.6 %
		≻l	3.45	67.01	15.16		150.0	
10450	IEEE 000 44 - 150E (400C - 150 C	Z	3.21	<u>67.</u> 51	14.85		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	6.26	68.01	16.78	0.00	150.0	± 9.6 %
		Y	6.26	67.75	16.66		150.0	
40457	LIMTO FOR (BO LIGHT !	Z	6.13	67.97	16.72		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	Х	3.81	65.42	16.11	0.00	150.0	± 9.6 %
		Y	3.77	64.98	15.86		150.0	
10450	CDM40000 (4: EV EQ E	Z	3.73	65.50	15.98		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.16 	71.37	18.08	0.00	150.0	± 9.6 %
	 	Y	3.92	69.91	17.32		150.0	
40450	ODMAROO /4 EV E C = = = =	Z	4.02	72.11	17.63		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.19	68.40	18.36	0.00	150.0	± 9.6 %
		_Y	5.10	67.75	18.06		150.0	_
		Z	5.01	69.18	18.25		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	Х	1.07	72.05	18.39	0.00	150.0	± 9.6 %
AAA								
	 	Y	0.81	67.05	15.17		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	0.95	70.49	17.24		150.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	129.11	33.59	3.29	80.0	± 9.6 %
		Y	100.00	132.68	35.56	<u> </u>	80.0	
10462-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	100.00	128.17	32.38	<u></u>	80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	X	29.76	94.39	20.32	3.23	80.0	± 9.6 %
 -		Y	100.00	112.07	25.94		80.0	
10463-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	0.79	60.49	7.76		80.0	<u> </u>
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)		2.50	68.97	12.20	3.23	80.0	± 9.6 %
	 	Y Z	100.00	107.58	23.85		80.0	<u> </u>
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	X	0.77 100.00	60.00 126.29	6.89	0.00	80.0	
AAB	QPSK, UL Subframe=2,3,4,7,8,9)				32.12	3.23	80.0	± 9.6 %
		Y_	100.00	130.29	34.26		80.0	
10465-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	Z	100.00	124.25	30.42		80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)		9.13	82.53	17.12	3.23	80.0	± 9.6 %
 -	 	Y	100.00	111.30	25.58	<u> </u>	80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	Z	0.75	60.00	7.44		80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)		1.98	66.71	11.27	3.23	80.0	± 9.6 %
-	 	Y	99.88	106.88	23.53		80.0	
10467-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z	0.78	60.00	6.83		80.0	
AAD	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.60	32.25	3.23	80.0	± 9.6 %
_	+ <u>-</u>	Y	100.00	130.59	34.40		80.0	
10468-	LTE TOD (OC FOLIA & ST. FANCE)	Z	100.00	124.67	30.60		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	11.66	85.00	17.83	3.23	80.0	± 9.6 %
		Y	100.00	111.53	25.68		80.0	
10469-	LTE TOP (OG FERMAN)	Z	0.75	60.09	7.51		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	1.98	66.75	11.28	3.23	80.0	± 9.6 %
		Υ	100.00	106.90	23.54		80.0	
40470	LTE TOO TOO TO	Z_	0.77	60.00	6.83		80.0	
10470- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	126.64	32.26	3.23	80.0	± 9.6 %
		Y	100.00	130.65	34.41		80.0	
10471-	LTE TOD (CO FDM) (DD (O)	Z	100.00	124.69	30.60		80.0	_
AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.32	84.67	17.72	3.23	80.0	±9.6 %
		Y	100.00	111.46	25.64		80.0	
10472-	LTE TOD (CC FDM) 4 DD 404	Z	0.75	60.04	7.47		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	1.96	66.63	11.22	3.23	80.0	± 9.6 %
	 	Υ	100.00	106.82	23.49		80.0	
10473-	LTE-TOD (SC EDMA 4 DD 45 M	Z	0.77	60.00	6.81		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.60	32.24	3.23	80.0	± 9.6 %
	 	_<	100.00	130.61	34.39		80.0	
10474-	LTE TOD (SC EDMA 4 DD 45 NO. 45	Z	100.00	124.64	30.58		80.0	
AAD_	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	11.06	84.45	17.66	3.23	80.0	± 9.6 %
		Υ	100.00	111.47	25.64		80.0	·· <u> </u>
10475-		Z	0.74	60.02	7.45		80.0	
	LITE TOO (OO EDM)		4.0=	00.50	44.00	2.22		1000
AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	1.95	66.59	11.20	3.23	80.0	± 9.6 %
	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	99.99	106.84	23.50	3.23	80.0	± 9.6 %

10477-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-							
AAE	QAM, UL Subframe=2,3,4,7,8,9)	X_	9.10	82.47	17.07	3.23	80.0	± 9.6 %
	 	Y	100.00	111.24	25.54		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-		0.74	60.00	7.42		80.0	
AAE	QAM, UL Subframe=2,3,4,7,8,9)	X	1.93	66.47	11.14	3.23	80.0	± 9.6 %
		Υ	96.81	106.44	23.40		80.0	
10479-	1 TE TOD (CO EDIM 500) DE LA LICE	Z	0.77	60.00	6.80		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.68	90.97	25.10	3.23	80.0	± 9.6 %
		Y	13.83	97.37	27.65		80.0	
10480-	LTC TDD (0.0 TD)	Z	12.23	94.71	25.17	-	80.0	<u> </u>
AAA AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.91	88.02	22.17	3.23	80.0	± 9.6 %
		Y	19.25	95.65	25.10		80.0	
10404	1 TE TOO (00 FELL)	Z	7.50	81.30	18.54		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	9.15	83.59	20.38	3.23	80.0	±9.6 %
	<u> </u>	Υ	15.12	91.18	23.39		80.0	
40400	LTC TDD (00 TD)		4.40	74.24	15.71		80.0	
10482- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.76	79.70	20.44	2.23	80.0	± 9.6 %
		Y	3.53	74.74	18.45		80.0	
10400	LITE TOP (OO TO)	Z	2.62	71.60	16.13		80.0	
10483- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.87	78.17	19.16	2.23	80.0	± 9.6 %
		_ Y	8.24	83.44	21.55		80.0	
40.40.4	 	Z	2.93	69.04	14.15		80.0	
10484- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.35	76.61	18.60	2.23	80.0	± 9.6 %
		Υ	7.24	81.28	20.83		80.0	
		Ζ	2.73	67.94	13.69		80.0	_
10485- AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.47	78.87	21.04	2.23	80.0	± 9.6 %
		Ϋ́	3.68	75.23	19.49		80.0	
40400		Z	3.15	74.27	18.50		80.0	_
10486- AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	72.50	18.04	2.23	80.0	± 9.6 %
_		Y	3.38	70.29	17.05		80.0	
40.40=		Z	2.84	69.02	15.57		80.0	
10487- <u>AAD</u>	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.74	71.89	17.77	2.23	80.0	± 9.6 %
		Υ	3.37	69.86	16.85		80.0	
40.400		Z	2.81	68.50	15.32		80.0	
10488- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.24	75.86	20.43	2.23	80.0	± 9.6 %
		Ŷ	3.83	73.65	19.40		80.0	
10100	LITE TOP (OO ED) (CO	Z	3.28	72.72	18.85		80.0	
10489- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.72	70.49	18.27	2.23	80.0	± 9.6 %
		Y	3.53	69.26	17.66		80.0	
10100	LTE TOP (OO ET)	Z	3.19	68.97	17.14		80.0	
10490- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	70.18	18.14	2.23	80.0	± 9.6 %
		Y	3.62	69.04	17.58		80.0	
10/01	LITE TOD (OC EDMA 50% DD 45 : "	Z	3.27	68.77	17.05		80.0	
10491- _AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.23	73.19	19.42	2.23	80.0	± 9.6 %
		Y	3.95	71.65	18.67		80.0	
10400	LIE TOD (OO EDMA 500) DD 45 iiii	_Z	3.47	70.90	18.25	_	80.0	
10492- AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.97	69.24	17.95	2.23	80.0	± 9.6 %
		Y	3.85	<u>6</u> 8.36	17.51		80.0	
		Z	3.50	68.04	17.11		80.0	

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	4.03	69.04	17.87	2.23	80.0	± 9.6 %
AAD	64-QAM, UL Subframe=2,3,4,7,8,9)	_		ļ	L			
		Y	3.92	68.21	17.46		80.0	
10494-	LTE TOD (CC CDMA FOX DD CO MILE	Z	3.56	67.90	17.04		80.0	
AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.79 	75.46	20.14	2.23	80.0	± 9.6 %
		Υ	4.38	73.53	19.24		80.0	
	- 	Z	3.78	72.48	18.78		80.0	
10495- AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.03	69.76	18.19	2.23	80.0	± 9.6 %
	 	Y	3.90	68.85	17.73		80.0	_
		Z	3.53	68.35	17.31		80.0	
10496- AAE_	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.08	69.35	18.04	2.23	80.0	± 9.6 %
		[Y]	3.97	68.51	17.62		80.0	
		Z	3.60	68.09	17.22		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.72	75.87	18.08	2.23	80.0	± 9.6 %
		Υ	2.64	70.76	15.98		80.0	
		Z	1.51	64.60	11.77		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	x	2.30	66.27	12.99	2.23	80.0	± 9.6 %
		Y	2.02	64.31	12.06		80.0	†
		Z	1.20	60.00	8.21		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.18	65.35	12.41	2.23	80.0	± 9.6 %
		Y	1.97	63.70	11.62		80.0	
		Z	1.22	60.00	8.05		80.0	
10500- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.19	76.87	20.53	2.23	80.0	± 9.6 %
		Y	3.63	74.04	19.27		80.0	-
		Z	3.15	73.35	18.54		80.0	
10501- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.74	71.57	18.07	2.23	80.0	± 9.6 %
		Y	3.44	69.83	17.26		80.0	
		Z	3.03	69.25	16.29	_	80.0	
10502- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.79	71.34	17.92	2.23	80.0	± 9.6 %
		LY	3.50	69.66	17.14		80.0	
		Z	3.07	69.05	16.12		80.0	
10503- AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.18	75.62	20.32	2.23	80.0	± 9.6 %
		Y	3.77	73.43	19.30		80.0	
10504		Z	3.23	72.50	18.74		80.0	
10504- AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.70	70.40	18.21	2.23	80.0	± 9.6 %
		Υ	3.52	69.18	17.61		80.0	
40505	LTC TDD (00 TO	Z	3.17	68.86	17.07		80.0	
10505- AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.77	70.08	18.09	2.23	80.0	± 9.6 %
- -		Y	3.60	68.95	17.53		80.0	
10500	LTE TOP (00 = 200)	Z	3.25	68.67	16.99		80.0	
10506- AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.74	75.29	20.06	2.23	80.0	±9.6%
		Υ	4.34	73.37	19.17		80.0	
10507	LTE TOD (OO ED)	Z	<u>3.7</u> 4	72.32	18.70		80.0	
10507- AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.01	69.69	18.15	2.23	80.0	± 9.6 %
	7-1-6-7-1-6							
		Y	3.88	68.79	17.69		80.0	

10508- AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.07	69.28	18.00	2.23	80.0	± 9.6 %
	5551 tante=2,0,4,1,0,9)	+ _Y -	200	1	 			
		T Y	3.96 3.59	68.45	17.58	ļ	80.0	
10509-	LTE-TDD (SC-FDMA, 100% RB, 15	\ X	4.87	68.02	17.17	<u> </u>	80.0	
AAD	MHz, QPSK, UL Subframe=2,3,4,7,8,9)			73.12	19.15	2.23	80.0	± 9.6 %
		Y	4.57	71.69	18.46	<u> </u>	80.0	
10510-	LTE-TDD (SC-FDMA, 100% RB, 15	X	4.08	70.95	18.12		80.0	
AAD	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		4.46	69.19	17.97	2.23	80.0	± 9.6 %
		Y	4.36	68.46	17.61		80.0	
10511-	LTE TOD (OC FOMA 4000) DD	Z	3.98	67.93	17.23		80.0	
AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.49	68.83	17.85	2.23	80.0	± 9.6 %
		Y	4.40	68.15	17.52		80.0	
10E10	LTE TOP (00 FT)	Z	4.03	67.70	17.16		80.0	
10512- _AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.35	75.53	19.95	2.23	80.0	± 9.6 %
		Y	4.89	73.64	19.09		80.0	
10513-	LITE TOD (OO FOM) 1000(FT	Z	4.27	72.56	18.64		80.0	
AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.37	69.62	18.15	2.23	80.0	± 9.6 %
		Y	4.26	68.83	17.75		80.0	
10514-	LITE TOP (OO FEMAL 4000) DE CO	Z	3.86	68.15	17.33		80.0	
AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.36	69.04	17.95	2.23	80.0	± 9.6 %
		Υ	4.26	68.32	17.60		80.0	
40545		<u>Z</u>	3.89	67.75	17.20		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	0.98	64.01	15.52	0.00	150.0	± 9.6 %
-		Y	0.90	62.52	14.23		150.0	_
10516-	1555 900 445 MSS: 0.4 OLL (5000 55	Z	0.95	63.71	15.08		150.0	
AAA_	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.96	80.43	22.24	0.00	150.0	± 9.6 %
	 	Y	0.52	69.16	15.73		150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	0.74	75.71	19.80		<u>15</u> 0.0	
AAA	Mbps, 99pc duty cycle)	×	0.87	66.95	16.73	0.00	150.0	±9.6 %
		Y	0.75	64.30	14.64		1 <u>50</u> .0	
10518-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9	Z	0.81	66.10	15.98		150.0	
AAB	Mbps, 99pc duty cycle)	X	4.59	66.88	16.37	0.00	150.0	± 9.6 %
 _	 -	Y	4.55	66.43	16.12	<u> </u>	150.0	
10519-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	X	4.41 4.79	66.91 67.13	16.25 16.49	0.00	150.0 150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	Y	4 7E	66.74	46.60	<u> </u>	450 5	
		Z	4.75 4.57	66.71 67.10	16.26		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.64	67.11	16.35 16.43	0.00	150.0 150.0	± 9.6 %
		Y	4.60	66.67	16.18		150.0	-
10=		Z	4.43	67.05	16.27		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.57	67.12	16.42	0.00	150.0	±9.6 %
		Υ	4.53	66.66	16.16		150.0	_
40500	IEEE 000 44-9 MINE - CONTRACTOR	Z	4.36	67.04	16.26		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.63	67.16	16.48	0.00	150.0	± 9.6 %
		Y	4.59	66.70	16.22		150.0	
	<u> </u>	Z	4.42	67.17	16.36		150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	Х	4.51	67.05	16.34	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)							
		Y_	4.46	66.56	16.06		150.0	
10524-	LEEE 903 110/b W/F F OUT (OFD) 4 54	Z	4.33	67.10	16.24		150.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.58	67.09	16.46	0.00	150.0	±9.6 %
		Y	4.53	66.64	16.20		150.0	
40.50		Z	4.37	67.10	16.33		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.55	66.14	16.05	0.00	150.0	± 9.6 %
		Υ	4.50	65.66	15.78		150.0	
1000		Ζ	4.38	66.18	15.95		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	Х	4.74	66.53	16.19	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.69	66.05	15.93		150.0	
40505		Z	4.52	66.50	16.07		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	Х	4.66	66.50	16.15	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.61	66.01	15.87		150.0	i
40.00		Ζ	4.45	66.47	16.02		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.67	66.52	16.18	0.00	150.0	± 9.6 %
		Y	4.62	66.03	15.91		150.0	
		Z	4.47	66.48	16.05		150.0	
10529- AAB_	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.67	66.52	16.18	0.00	150.0	± 9.6 %
		Y	4.62	66.03	15.91		150.0	
		Z	4.47	66.48	16.05		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.67	66.65	16.20	0.00	150.0	± 9.6 %
		Y	4.63	66.16	15.93	 	150.0	
		Z	4.44	66.54	16.04	 	150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	Х	4.53	66.51	16.14	0.00	150.0	± 9.6 %
		Y	4.48	66.01	15.86		150.0	
		Z	4.32	66.41	15.98		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.68	66.56	16.16	0.00	150.0	± 9.6 %
		Y	4.63	66.06	15.89		150.0	
		Z	4.48	66.56	16.05		150.0	·
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.19	66.60	16.20	0.00	150.0	± 9.6 %
		Y	5.16	66.20	15.99		150.0	
		Z	5.01	66.50	16.09		150.0	<u> </u>
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.26	66.75	16.27	0.00	150.0	± 9.6 %
		Υ	5.22	66.35	16.06		150.0	
40-44-		Z	5.06	66.65	16.16	<u> </u>	150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	5.13	66.73	16.24	0.00	150.0	± 9.6 %
		Υ	5.09	66.32	16.02		150.0	
		Z	4.95	66.64	16.13		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	Х	5.19	66.69	16.22	0.00	150.0	± 9.6 %
		Υ	5.15	66.30	16.01		150.0	
40500		Z	5.00	66.59	16.11		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.28	66.73	16.28	0.00	150.0	± 9.6 %
		Υ	5.26	66.36	16.08		150.0	
40515		Z	5.08	66.58	16.14	-	150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.21	66.72	16.29	0.00	150.0	± 9.6 %
		Y	5.17	66.33	16.08		150.0	
		. ' '	J. 17	00.55	10.00		150.0	

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,			, <u> </u>				
AAB	99pc duty cycle)	X	5.18	66.60	16.22	0.00	150.0	± 9.6 %
		Y	5.14	66.20	16.01		150.0	
10542-	IEEE 802.11ac WiFi (40MHz, MCS8,		4.99	66.47	16.09		150.0	
AAB	99pc duty cycle)	X	5.33	66.65	16.26	0.00	150.0	± 9.6 %
	 	Y	5.31	66.28	16.07		150.0	
10543-	IEEE 000 44 NOTE 1400	Z	5.14	66.55	16.15		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.41 ——————	66.68	16.29	0.00	150.0	± 9.6 %
		Y	5.39	66.31	16.11		150.0	
10544-	LEEE COO AL LANGUE LE	Z	5.20	66.56	16.18		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.49 	66.70	16.18	0.00	150.0	± 9.6 %
		. Y	5.45	66.31	15.98		150.0	
10E4E	LEEE 000 44 NOTE 100	Z	5.34	66.58	16.07		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.68	67.09	16.32	0.00	150.0	± 9.6 %
		Y	5.66	66.76	16.15		150.0	
10510	IEEE 000 da 140E: 150E	Z	5.51	66.98	16.23		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.57	66.94	16.26	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.54	66.57	16.08		150.0	
40547	LIEFE CO. 44	Z	5.38	66.73	16.11	_	150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	×	5.64	66.98	16.27	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.63	66.66	16.11		150.0	
		Z	5.45	66.79	16.14		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.90	67.92	16.71	0.00	150.0	± 9.6 %
		Y	5.97	67.87	16.68		150.0	
		Z	5.63	67.50	16.47		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	×	5.59	66.92	16.26	0.00	150.0	± 9.6 %
		Y	5.55	66.54	16.07		150.0	
		Ż	5.42	66.82	16.17	-	150.0	·
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.60	66.98	16.25	0.00	150.0	± 9.6 %
		Y	5.56	66.60	16.06		150.0	 -
		Ż	5.40	66.75	16.10		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.51	66.77	16.16	0.00	150.0	± 9.6 %
		Y	5.47	66.37	15.96		150.0	
		Z	5.35	66.67	16.06		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.60	66.81	16.21	0.00	150.0	± 9.6 %
		Y	5.56	66.43	16.01		150.0	
		Z	5.41	66.65	16.08		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.89	67.05	16.26	0.00	150.0	± 9.6 %
		Y	5.86	66.69	16.08		150.0	
		Z	5.75	66.91	16.14		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.02	67.35	16.38	0.00	150.0	± 9.6 %
		Y	6.00	67.02	16.22		150.0	
105-1		Z	5.86	67.17	16.25		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	Х	6.04	67.39	16.40	0.00	150.0	± 9.6 %
		Y	6.02	67.06	16.23	_	150.0	
		Z	5.88	67.24	16.28		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.01	67.32	16.38	0.00	150.0	± 9.6 %
		Y	5.99	66.98	40.00		450.0	
	<u> </u>	T	5.99	96.90	16.22		150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.07	67.49	16.48	0.00	150.0	± 9.6 %
		Y	6.05	67.17	16.33		150.0	
	-	Z	5.88	67.26	16.33		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	Х	6.06	67.34	16.44	0.00	150.0	± 9.6 %
		Y	6.04	66.99	16.28		150.0	
		Z	5.88	67.13	16.30		150.0	
10561- _AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.98	67.30	16.46	0.00	150.0	± 9.6 %
		Υ	5.96	66.96	16.30		150.0	
		Ž	5.81	67.11	16.32		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.11	67.72	16.67	0.00	150.0	± 9.6 %
		Y	6.12	67.46	16.55		150.0	
	<u> </u>	Z	5.89	67.37	16.45		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.43	68.23	16.87	0.00	150.0	± 9.6 %
	 	Y	<u>6.5</u> 0	68.16	16.85		150.0	
40.00	<u></u>	Z	5.96	67.23	16.35		150.0	_
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.91	66.93	16.51	0.46	150.0	± 9.6 %
		Y	4.88	66.54	16.31		150.0	
		Z	4.73	66.93	16.37		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.16	67.40	16.83	0.46	150.0	± 9.6 %
		_ Y _	5.13	67.02	16.64		150.0	
		Z	4.93	67.35	16.69		150.0	
10566- _AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.99	67.26	16.66	0.46	150.0	± 9.6 %
		Y	4.96	66.87	16.45		150.0	
		Z	4.77	67.18	16.50		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	5.02	67.67	17.02	0.46	150.0	± 9.6 %
		Y	4.98	67.25	16.79		150.0	
		Z	4.81	67.60	16.88		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.90	67.00	16.42	0.46	150.0	± 9.6 %
		Y_	4.87	66.62	16.22		150.0	-
		Z	4.67	66.94	16.26		150.0	
10569- AAA	JEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.97	67.73	17.07	0.46	150.0	± 9.6 %
		Υ	4.93	67.29	16.83		150.0	
		Z	4.78	67.78	16.99		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.01	67.57	17.00	0.46	150.0	± 9.6 %
		Y	4.97	67.15	16.77		150.0	
10574		Z	4.80	67.57	16.89		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.17	65.22	16.39	0.46	130.0	± 9.6 %
	<u> </u>	Υ	1.09	63.89	15.30		130.0	
10E70	IEEE 000 445 MEET 0 4 000 FEET	Z	1.10	64.48	15.68		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.19	65.91	16.81	0.46	130.0	± 9.6 %
	 	Y	1.10	64.45	15.65		130.0	
10E72	JEEE 000 446 1997 6 4 500	Z	1.12	65.08	16.07		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	11.95	118.97	33.95	0.46	130.0	± 9.6 %
		Υ	2.10	86.50	22.92		130.0	
10574	IEEE 000 to the second	Z	2.78	93.83	26.37		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.42	73.69	20.72	0.46	130.0	± 9.6 %
		Y	1.20	70.19	18.52		130.0	
		Z						

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	$\overline{}$	1.00	00.74	T			
AAA	OFDM, 6 Mbps, 90pc duty cycle)	X	4.69	66.71	16.57	0.46	130.0	± 9.6 %
		+ <u>Y</u>	4.67	66.34	16.38		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.50	66.68	16.40		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)		4.72	66.88	16.64	0.46	130.0	± 9.6 %
		Y	4.69	66.50	16.44		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.53	66.88	16.48		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)	X	4.94 ————	67.20	16.81	0.46	130.0	± 9.6 %
		Y	<u>4.</u> 91	66.83	16.62		130.0	
10578-	JEEE 200 44 - WEE: 0.4 OU - 12 000	Z	4.71	67.13	16.63		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	Х	4.83 ———	67.37	16.92	0.46	130.0	± 9.6 %
		Y	4.81	66.98	1 <u>6.7</u> 2		130.0	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.61	67.29	16.74		130.0	
AAA	OFDM, 24 Mbps, 90pc duty cycle)	X	4.60	66.66	16.24	0.46	130.0	± 9.6 %
		Y	4.57	66.30	16.05		130.0	
10580-	IEEE 900 44 - WEE: 0 + OU (DOOS	Z	4.37	66.49	16.00		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	4.64	66.67	16.25	0.46	130.0	± 9.6 %
		Y	4.62	66.31	16.06		130.0	
10581-	1555 000 44 WIST 0 4 OV	<u> Z </u>	4.41	66.55	16.03		130.0	
_AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	Х	4.73	67.42	16.87	0.46	130.0	± 9.6 %
		Y	4.70	67.02	16.65		130.0	
10582-	JEEE 000 44 - WEEL 0 4 OLL 19000	Z	4.52	67.36	16.71		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	Х	4.54 ———	66.41	16.03	0.46	130.0	± 9.6 %
		Y	4.53	66.07	15.85		130.0	_
40500		LZ	4.30	66.25	15.78		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.69	66.71	16.57	0.46	130.0	± 9.6 %
		Υ	4.67	66.34	16.38		130.0	
40504	1555.000 44 11 11 11 11 11 11 11 11 11 11 11 11	Z	4.50	66.68	16.40		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.72	66.88	16.64	0.46	130.0	± 9.6 %
_		Y	4.69	66.50	16.44		130.0	
40505		Z	4.53	66.88	16.48		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.94	67.20	16.81	0.46	130.0	± 9.6 %
	<u> </u>	Y	4.91	66.83	16.62		130.0	
40500	IETT 000 to the second		4.71	67.13	16.63		130.0	
10586- AAB_	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.83	67.37	16.92	0.46	130.0	± 9.6 %
		Υ	4.81	66.98	16.72		130.0	
40507		Z	4.61	67.29	16.74		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.60	66.66	16.24	0.46	130.0	± 9.6 %
		Y	4.57	66.30	16.05		130.0	
10500		Z	4.37	66.49	16.00		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	Х	4 .64	66.67	16.25	0.46	130.0	±9.6 %
		Y	4.62	66.31	16.06		130.0	
10500	IEEE 000 44 att latter & Oct. Commission	Z	4.41	66.55	16.03		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.73	67.42	16.87	0.46	130.0	± 9.6 %
		<u> Y</u>	4.70	67.02	16.65		130.0	
10500	IEEE 900 44- /h M/E' E OLL (OED): -	Z	4.52	67.36	16.71		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.54	66.41	16.03	0.46	130.0	± 9.6 %
<u> </u>		Υ	4.53	66.07	15.85		130.0	
		Z	4.30	66.25	15.78		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.84	66.77	16.66	0.46	130.0	± 9.6 %
		Y	4.82	66.41	16.48		130.0	
		Z	4.66	66.76	16.51	 	130.0	-
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	Х	5.01	67.12	16.79	0.46	130.0	± 9.6 %
		Y	4.99	66.76	16.61		130.0	
		Z	4.79	67.07	16.64		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.93	67.04	16.68	0.46	130.0	± 9.6 %
		_ Y	4.91	66.69	16.51		130.0	
	<u> </u>	_ Z	4.71	66.95	16.50		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.98	67.20	16.83	0.46	130.0	± 9.6 %
		Y	4.96	66.84	16.65		130.0	
-	<u> </u>	Z	4.76	67.13	16.67		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	Х	4.95	67.16	16.73	0.46	130.0	± 9.6 %
		Y	4.93	66.80	16.55		130.0	
		Z	4.73	67.10	16.57		130.0	·
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.89	67.16	16.74	0.46	130.0	± 9.6 %
		Υ	4.87	66.79	16.55	 	130.0	
		Z	4.66	67.08	16.56		130.0	 -
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	_ X	4.84	67.08	16.63	0.46	130.0	± 9.6 %
		Y	4.82	66.71	16.44		130.0	
		Z	4.61	66.96	16.43	<u> </u>	130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.82	67.33	16.90	0.46	130.0	± 9.6 %
		Y	4.80	66.95	16.70		130.0	_
		Z	4.60	67.20	16.70		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.51	67.30	16.83	0.46	130.0	± 9.6 %
		Υ	5.50	67.04	16.72		130.0	
		Ž	5.31	67.18	16.69		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.66	67.75	17.03	0.46	130.0	± 9.6 %
		Y	5.70	67.66	17.00		130.0	
		Z	5.42	67.55	16.85		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.54	67.49	16.91	0.46	130.0	± 9.6 %
		Y	5.55	67.29	16.83		130.0	
1000		Z	5.33	67.34	16.76		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	Х	5.62	67.47	16.82	0.46	130.0	± 9.6 %
	 	Υ	5.64	67.27	16.74		130.0	
40000		Z	5.46	67.51	16.77		130.0	_
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	Х	5.72	67.83	17.13	0.46	130.0	± 9.6 %
		Y	5.72	67.56	17.01		130.0	
10004	1555 000 44 (UT)	Z	5.53	67.80	17.05		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.51	67.26	16.84	0.46	130.0	± 9.6 %
	 	Y	5,51	67.00	16.72		130.0	_
10605-	IEEE 900 44 - 0 ITAG	Z	5.40	67.44	16.85		130.0	
AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.62	67.58	16.99	0.46	130.0	± 9.6 %
		Y	5.63	67.37	16.91		130.0	
40000	1555 000 44 (US)	Z	5.43	67.48	16.86		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.39	67.04	16.59	0.46	130.0	± 9.6 %
		_ Y	5.38	66.75	16.46		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	TX	4.69	66.11	16.30	0.46	100.0	Т
AAB	90pc duty cycle)		<u>-</u>	00.11	10.30	0.46	130.0	± 9.6 %
		Y	4.65	65.70	16.09		130.0	
10608-	IEEE 802.11ac WiFi (20MHz, MCS1,	Z	4.51	66.12	16.16		130.0	
AAB	90pc duty cycle)	X	4.89	66.54	16.47	0.46	130.0	± 9.6 %
	 	Y	4.86	66.13	16.26		130.0	
10609-	IEEE 802.11ac WiFi (20MHz, MCS2,	Z	4.67	66.48	16.32		130.0	
AAB	90pc duty cycle)	X	4.78 	66.40	16.32	0.46	130.0	± 9.6 %
	 	Y	4.74	65.99	16.10		130.0	
10610-	IEEE 802.11ac WiFi (20MHz, MCS3,	Z	4.56	66.32	<u>1</u> 6.14		130.0	
AAB	90pc duty cycle)	X	4.83	66.56	16.48	0.46	130.0	± 9.6 %
	-	<u> </u>	4.80	66.15	16.27		130.0	
10611-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.61	66.49	16.31		130.0	
AAB	90pc duty cycle)	X	4.74	66.37	16.33	0.46	130.0	± 9.6 %
		<u> </u>	4.71	65.96	16.12		130.0	
10612-	IEEE 802.11ac WiFi (20MHz, MCS5,	Z	4.52	66.28	16.15		130.0	
AAB	90pc duty cycle)	Х	4.76	66.53	16.38	0.46	130.0	±9.6 %
		<u>- </u>	4.73	66.12	16.16		130.0	
10613-	IEEE 900 444- 18/25/ (0034) 1 14000	Ž	4.52	66.43	16.20		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.76	66.43	16.27	0.46	130.0	± 9.6 %
		Y	4.74	66.03	16.06		130.0	
10614-	IEEE 902 1100 W/F: /00MU - 14007	Z	4.52	66.26	16.05		130.0	
AAB_	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.70 	66.62	16.50	0.46	130.0	± 9.6 %
	<u> </u>	Υ	4.67	66.19	16.28		130.0	
10015	1555 000 44 1455 000 44	Z	4.48	66.49	16.31		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.74	66.19	16.10	0.46	130.0	± 9.6 %
	<u> </u>	Y	4.72	65.79	15.90	-	130.0	
10616-	IEEE 000 44 1005 7401 11 11000	Z	4.52	<u>66</u> .11	15.92		130.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.34	66.61	16.47	0.46	130.0	± 9.6 %
		Y	5.32	66.28	16.32		130.0	
10617-	IEEE 000 44 - INSEC 440 BY	Z	5.14	66.47	16.32		130.0	
AAB_	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	×	5.40	66.74	16.51	0.46	130.0	± 9.6 %
		Y	5.38	66.41	16.35		130.0	
10610	IEEE 000 44 - 1405 4401 44	Z	5.21	66.65	16.39		130.0	
10618- AAB	IEEE 802.11ac WIFI (40MHz, MCS2, 90pc duty cycle)	×	5.29	66.79	16.56 	0.46	130.0	± 9.6 %
	 	Y	5.27	66.46	16.39		130.0	
10619-	IFFE 900 44 - 140F1 (4011)	Z	5.11	66.70	16.43		130.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.31	66.61	16.40	0.46	130.0	± 9.6 %
	 	Y	5.30	66.30	16.25		130.0	
10600	IEEE 900 44 - PARTI (40) TO THE	_ <u> </u>	5.11	66.46	16.24		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.41	66.67	16.47	0.46	130.0	± 9.6 %
	 	Y	5.41	66.38	16.34		130.0	
10624	JEEE 200 445-1475 (1017)	Z	5.19	66.48	16.30		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.40	66.76	16.64	0.46	130.0	± 9.6 %
	 	Ý	5.38	66.43	16.48		130.0	
10622	IEEE 200 44 - 1405 (402 04 1405 05	Z	5.21	66.64	16.50		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	×	5.41	66.91	16.70	0.46	130.0	± 9.6 %
		Y	5.39	66.60	16.55		130.0	
		Z	5.20	66.74	16.55		130.0	

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.29	66.45	16.36	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)					00	100.0	20.070
		Υ	5.27	66.12	16.20		130.0	
		Z	5.08	66.28	16.19		_130.0	Ī
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.48	66.64	16.51	0.46	130.0	± 9.6 %
	 	Y	5.47	66.35	16.38		130.0	
		Z	5.28	66.51	16.36		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.87	67.67	17.07	0.46	130.0	± 9.6 %
	 	Y	5.92	67.56	17.03		130.0	_
10626-	IEEE 800 11 as 14/55 (001411- 14000	Z	5.48	66.99	16.66		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.62	66.65	16.41	0.46	130.0	± 9.6 %
	 	Y	5.59	66.32	16.26		130.0	
10627-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.46	66.52	16.28		130.0	
AAB_	90pc duty cycle)	X	5.86	67.19	16.64	0.46	130.0	± 9.6 %
<u> </u>		Y	5.87	66.96	16.54		130.0	
10628-	IEEE 802 1100 WIE: (90M) - MOOC	Z	5.68	67.07	16.52		130.0	_
AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.67	66.78	16.37	0.46	130.0	± 9.6 %
	 	Y	5.65	66.49	16.24		130.0	
10629-	IEEE 802.11ac WiFi (80MHz, MCS3,	Z	5.47	66.52	16.18		130.0	
AAB	90pc duty cycle)		5.76	66.87	16.41	0.46	130.0	± 9.6 %
	 	Y	5.74	66.55	16.26		130.0	
10630-	!EEE 802.11ac WiFi (80MHz, MCS4,	Z	5.55	66.62	16.22		130.0	
AAB	90pc duty cycle)	X	6.21	68.41	17.17	0.46	130.0	± 9.6 %
	 	Y	6.36	68.57	17.26		130.0	
10631-	IEEE 902 1100 M/SE (000 MILE \$400 E	Z	5.84	67.72	16.78		130.0	
AAB_	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.11	68.22	17.27	0.46	130.0	± 9.6 %
	 	<u> </u>	6.15	68.07	17.21		130.0	
10632-	IEEE 902 1100 MGE: (90MH = MOOO	Z	5.81	67.73	16.97		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.83	67.26	16.81	0.46	130.0	± 9.6 %
	 	<u> </u>	5.82	66.98	16.68		130.0	
10633-		Z	5.67	67.19	16.73		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.73	66.95	16.48	0.46	130.0	± 9.6 %
	 	Y	5.72	66.66	16.35		130.0	
10634-	IEEE 802.11ac WiFi (80MHz, MCS8,	Z	5.54	66.74	16.32		130.0	
AAB	90pc duty cycle)	X	5.72	66.98	16.56	0.46	130.0	± 9.6 %
	 	Y	5.70	66.65	16.41		130.0	
10635-	IEEE 802.11ac WiFi (80MHz, MCS9,	Z	5.52	66.78	16.40		130.0	
AAB	90pc duty cycle)	Х	5.60	66.32	15.97	0.46	130.0	± 9.6 %
	 	Y	5.59	66.03	15.84		130.0	
10636-	IEEE 802.11ac WiFi (160MHz, MCS0,	Z	5.39	66.04	15.76	<u> </u>	130.0	<u> </u>
AAC	90pc duty cycle)	X	6.03	67.02	16.50	0.46	130.0	± 9.6 %
		Y 7	6.02	66.74	16.37		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Z	5.89 6.19	66.87 67.40	16.36 16.66	0.46	130.0	± 9.6 %
		Y	6.19	67.15	16 56		120.0	-
		Ż	6.02	67.15	16.56 16.51		130.0	-
10638-	IEEE 802.11ac WiFi (160MHz, MCS2,	$\frac{1}{X}$	6.19	67.38	16.63	0.46	130.0	1000
AAC	90pc duty cycle)	Y				0.46	130.0	± 9.6 %
			6.19	67.12	16.52		130.0	
		Z	6.03	67.21	16.49	<u> </u>	130.0	

10639-	IEEE 000 44 - William						,	gust 23, 201
AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.18	67.36	16.66	0.46	130.0	± 9.6 %
		Y	6.17	67.09	16.55	<u> </u>	130.0	
10640-	IEEE 900 44 - 2 MIE 4400 MI	Z	6.00	67.13	16.50		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.19	67.39	16.62	0.46	130.0	± 9.6 %
		Y	6.20	67.16	16.53		130.0	
10641-	JEEF 000 44 AVIII	Z	5.99	67.11	16.43		130.0	
AAC AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.21	67.22	16.56	0.46	130.0	± 9.6 %
		Υ	6.20	66.94	16.44		130.0	
10010	TELE COLUMNIA COLUMNI	Z	6.05	67.08	16.43		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.27	67.52	16.87	0.46	130.0	± 9.6 %
	<u> </u>	Υ	6.26	67.23	16.75		130.0	
40040		Z	6.09	67.31	16.72		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.10	67.19	16.61	0.46	130.0	± 9.6 %
		Υ	6.09	66.93	16.50		130.0	
10011	LIFE CO. 14	Z	5.93	67.00	16.46		130.0	 -
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.29	67.77	16.92	0.46	130.0	± 9.6 %
		Y	6.32	67.61	16.86		130.0	_
		Z	6.02	67.30	16.63		130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.72	68.61	17.29	0.46	130.0	± 9.6 %
		Y	6.81	68.60	17.31		130.0	
		Z	6.13	67.29	16.58		130.0	
10646- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	26.22	119.06	40.53	9.30	60.0	± 9.6 %
		Y	23.98	116.77	40.23		60.0	_
		Z	13.39	105.96	36.68		60.0	
10647- AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	21.91	115.56	39.67	9.30	60.0	± 9.6 %
		Y	20.79	114.08	39.59		60.0	_
_		Ż	11.12	102.25	35.63		60.0	-
10648- AAA	CDMA2000 (1x Advanced)	Х	0.80	65.60	12.34	0.00	150.0	± 9.6 %
		Y	0.65	62.69	10.17		150.0	
		Z	0.58	62.96	9.61	-	150.0	
10652- AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.70	67.38	17.08	2.23	80.0	± 9.6 %
		Y	3.59	66.56	16.66		80.0	
		Ž	3.39	66.83	16.41		80.0	
10653- AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.17	66.50	17.03	2.23	80.0	± 9.6 %
		Y	4.11	65.95	16.76		80.0	
		Z	3.90	66.02	16.55	_	80.0	_
10654- AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.13	66.12	17.00	2.23	80.0	± 9.6 %
		Υ	4.07	65.60	16.75		80.0	
400==		Z	3.90	65.62	16.55		80.0	
10655- AAD_	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.19	66.12	17.04	2.23	80.0	± 9.6 %
		Y	4.13	65.62	16.79		80.0	
10658-	Pulse Waveform (200Hz, 10%)	Z	3.96	65.57	16.58	4.5.5	80.0	
AAA	r dise vvavelofffi (200HZ, 10%)	X	100.00	111.27	26.15	10.00	50.0	± 9.6 %
		Y	100.00	112.15	26.71	<u> </u>	50.0	
10659-	Pulso Mayoform (2001)- 200()	Z	14.35	85.50	18.40		50.0	
AAA	Pulse Waveform (200Hz, 20%)	X	100.00	110.66	24.83	6.99	60.0	± 9.6 %
	 	Y	100.00	110.25	24.76		60.0	
	<u> </u>	Z	100.00	105.29	22.07		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	112.93	24.53	3.98	80.0	± 9.6 %
		Y	100.00	108.47	22.64		80.0	
		Z	100.00	104.83	20.58		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	118.71	25.68	2.22	100.0	± 9.6 %
		Y	100.00	104.33	19.70		100.0	
		Z	100.00	104.48	19.32		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	138.66	31.49	0.97	120.0	± 9.6 %
		Υ	0.19	60.00	4.09		120.0	
		Z	100.00	91.23	12.90		120.0	

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

Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

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Multilateral Agreement for the recognition of calibration certificates

Client

PC Test

Certificate No: EX3-7357_Apr19

S

C

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7357

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v5, QA CAL-23.v5,

QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

BN 4-29-2010

Calibration date:

April 24, 2019

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP SN: 104778 03-Apr-19 (No		03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	Power sensor NRP-Z91 SN: 103244 03-Apr-19 (No. 217-02892)		Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	(D	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check; Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A SN: US41080477		31-Mar-14 (in house check Oct-18)	In house check: Oct-19

Calibrated by:

Claudio Leubler

Claudio Leubler

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: April 24, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Swiss Calibration Service

Accreditation No.: SCS 0108

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Glossary:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF DCP sensitivity in TSL / NORMx,y,z diode compression point

CF A, B, C, D crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization φ

φ rotation around probe axis

Polarization 9

9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle

information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

EX3DV4 - SN:7357

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7357

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m)²) ^A	0.37	0.48	0.41	± 10.1 %
DCP (mV) ^B	87.5	101.0	95.2	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	175.5	± 2.7 %	± 4.7 %
		Y	0.00	0.00	1.00	1	162.7	1	
		Z	0.00	0.00	1.00	1	160.1	1	
10352-	Pulse Waveform (200Hz, 10%)	Х	1.63	60.99	8.59	10.00	60.0	± 3.2 %	± 9.6 %
AAA	· ·	Υ	15.00	88.78	20.10		60.0	1	
		Z	1.92	62,77	9.39	1	60.0	1	
10353-	Pulse Waveform (200Hz, 20%)	Х	1.28	62.05	7.66	6.99	80.0	± 2.1 %	± 9.6 %
AAA		Y	15.00	92.12	20.60		80.0		
		Z	1.44	63.37	8.24	1	80.0	1	
10354-	Pulse Waveform (200Hz, 40%)	X	0.53	60.00	5.08	3.98	95.0	± 1.2 %	± 9.6 %
AAA		Y	15.00	98.74	22.38		95.0	1	
		Z	0.50	60.00	4.96		95.0	1	
10355-	Pulse Waveform (200Hz, 60%)	X	0.34	60.00	3.46	2.22	120.0	± 1.3 %	± 9.6 %
AAA		Y	15.00	122.09	31.59		120.0	1	
		Z	0.32	60.00	3.17		120.0	1	
10387-	QPSK Waveform, 1 MHz	Х	0.47	60.00	5.85	0.00	150.0	± 3.4 %	± 9.6 %
AAA		Υ	0.84	63.60	10.73		150.0	1	
		Z	0.47	60.00	5.64		150.0	1	
10388-	QPSK Waveform, 10 MHz	X	2.22	69.17	16.45	0.00	150.0	± 1.2 %	± 9.6 %
AAA		Υ	2.39	69.28	16.48		150.0	1	
		Z	2.05	67.86	15.44	1	150.0		
10396-	64-QAM Waveform, 100 kHz	Х	1.74	66.32	18.65	3.01	150.0	± 6.4 %	± 9.6 %
AAA		Υ	3.21	72.13	19.45		150.0		
		Z	2.50	68.64	18.00		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.50	67.46	16.21	0.00	150.0	± 2.5 %	± 9.6 %
AAA		Υ	3.59	67.57	16.11		150.0		
		Z	3.40	67.11	15.75		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	Х	4.79	65.80	15.93	0.00	150.0	± 4.6 %	± 9.6 %
AAA		Υ	4.92	65.80	15.71]	150.0		
		Z	4.73	65.72	15.66		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

B Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7357

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
X	37.3	299.85	40.64	5.98	0.77	5.00	0.00	0.00	1.02
Υ	48.9	366.83	35.90	10.43	0.11	5.09	1.58	0.24	1.01
Z	37.8	294.77	38.42	5.12	0.55	5.04	0.00	0.43	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	14.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7357

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
64	54.2	0.75	14.77	14.77	14.77	0.00	1.00	± 13.3 %
750	41.9	0.89	10.26	10.26	10.26	0.45	0.95	± 12.0 %
835	41.5	0.90	9.91	9.91	9.91	0.53	0.85	± 12.0 %
1750	40.1	1.37	8.69	8.69	8.69	0.35	0.80	± 12.0 %
1900	40.0	1.40	8.26	8.26	8.26	0.33	0.84	± 12.0 %
2300	39.5	1.67	7.70	7.70	7.70	0.33	0.85	± 12.0 %
2450	39.2	1.80	7.57	7.57	7.57	0.39	0.85	± 12.0 %
2600	39.0	1.96	7.31	7.31	7.31	0.40	0.80	± 12.0 %
5250	35.9	4.71	5.45	5.45	5.45	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.06	5.06	5.06	0.40	1.80	± 13.1 %

^c Frequency validity above 300 MHz of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is \pm 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

⁶ MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

the ConvF uncertainty for indicated target tissue parameters.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7357

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ⁶ (mm)	Unc (k=2)
750	55.5	0.96	10.19	10.19	10.19	0.37	0.96	± 12.0 %
835	55.2	0.97	9.95	9.95	9.95	0.47	0.80	± 12.0 %
1750	53.4	1.49	8.26	8.26	8.26	0.35	0.85	± 12.0 %
1900	53.3	1.52	7.93	7.93	7.93	0.32	0.90	± 12.0 %
2300	52.9	1.81	7.72	7.72	7.72	0.30	0.85	± 12.0 %
2450	52.7	1.95	7.59	7.59	7.59	0.35	0.86	± 12.0 %
2600	52.5	2.16	7.39	7.39	7.39	0.32	0.89	± 12.0 %
5250	48.9	5.36	4.61	4.61	4.61	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.03	4.03	4.03	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.15	4.15	4.15	0.50	1.90	± 13.1 %

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

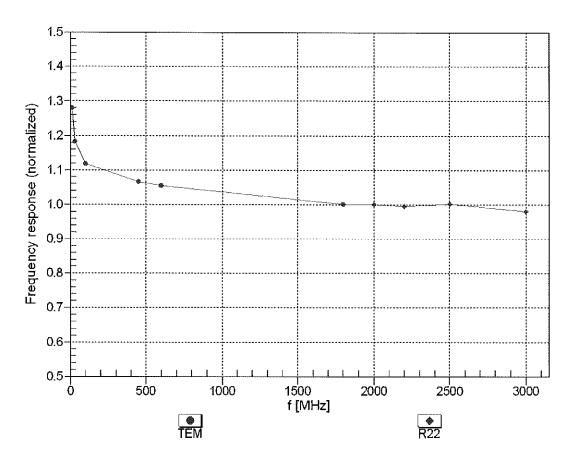
F At frequencies below 3 GHz, the validity of tissue parameters (e and a) can be relayed to ± 10% if liquid comprehensition formula is applied to

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

the ConvF uncertainty for indicated target tissue parameters.

Galpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

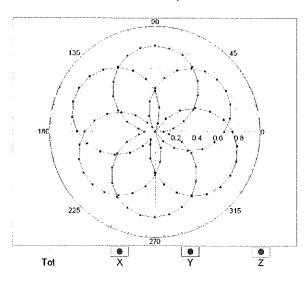


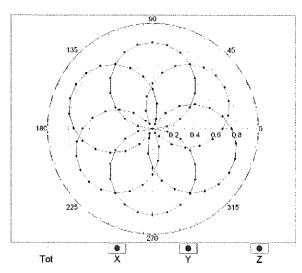
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

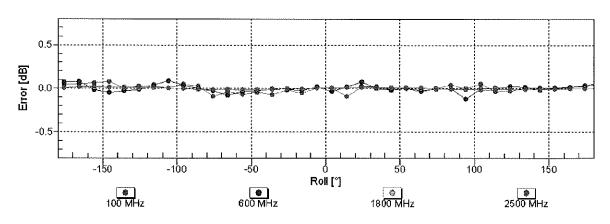
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

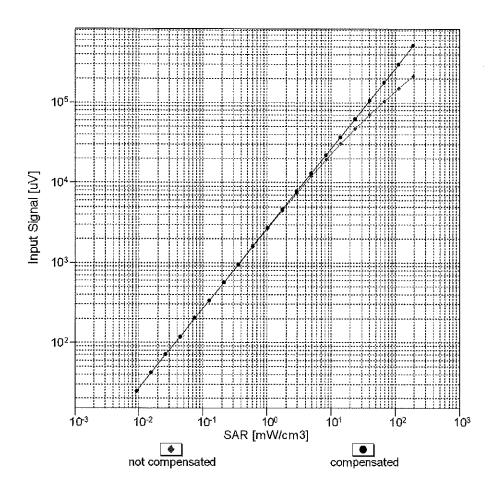


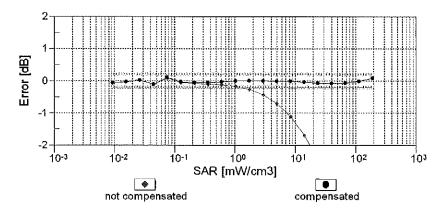




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

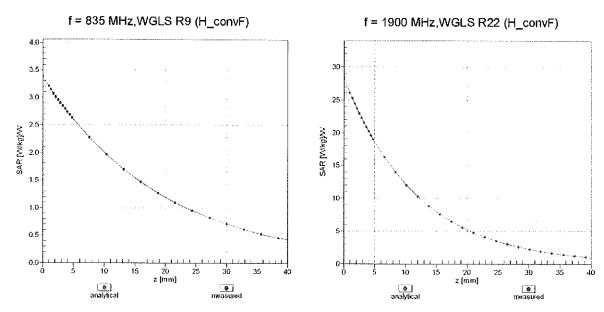
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



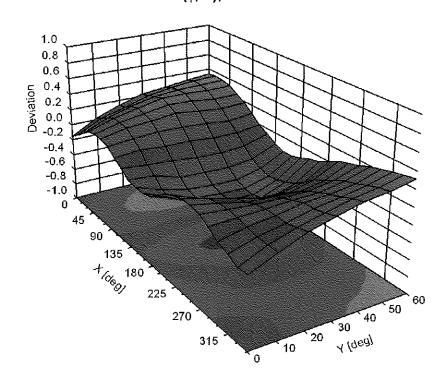


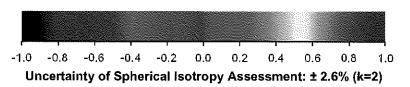
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz





Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6%
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6%
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6%
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6%
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±96%
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6%
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6%
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM WLAN	6.52	±9.6%
10059 10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12 2.83	± 9.6 % ± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10061	CAC	IEEE 802.11a/h WiFi 5 GHz (DS35, 11 Mbps)	WLAN	8.68	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.63	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 16 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6%
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10100	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)			

					,
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD		
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	****	6.62	± 9.6 %
10115	CAC		WLAN	8.10	± 9.6 %
		IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)			± 9.6 %
10149	CAE	LTE EDD (SC EDMA 50% PB 20 MHz 46 OAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	·	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD		
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)		5.82	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.43	± 9.6 %
10166	CAF		LTE-FDD	6.58	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
	-	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD		
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	5.73	±9.6%
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)		6.52	±9.6%
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LITE FOD (SC FOMA 4 DR 45 MUL ODOM)	LTE-FDD	6.50	±9.6%
		LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)			
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.12	±9.6%
10196	CAC	IEEE 802.11n (HT Greenlieid, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10190	CAC		WLAN	8.10	± 9.6 %
		IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6%
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

10220 10221 10222 10223 10224 10225 10226	CAC CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN WLAN	8.13 8.27	± 9.6 % ± 9.6 %
10222 10223 10224 10225 10226	CAC		WLAN	ጸ 27 1	*060/ I
10223 10224 10225 10226					
10224 10225 10226	~~~ 1	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10225 10226	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10226	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
	CAB	UMTS-FDD (HSPA+)	WCDMA ·	5.97	± 9.6 %
40007	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9,19	± 9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10233	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6%
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6%
10235	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10236	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 04-QAW)	LTE-TDD	9.21	± 9.6 %
				9.82	
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TOD		±9.6%
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6 %
10243	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6 %
10244	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6%
10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6%
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6%
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6%
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6%
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6%
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6 %
10258	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6%
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6%
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QF3R)	LTE-TOD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 10-QAM)	LTE-TDD	10.07	± 9.6 %
			LTE-TDD	9.30	±9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	10.06	±9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)			
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6%
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

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10300 10301	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL	WiMAX WiMAX	12.03	± 9.6 %
10302	~~~	symbols)	WINAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15	WIMAX	15.24	± 9.6 %
		symbols)	, , , , , , , , , , , , , , , , , , ,	10.21	20.070
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WIMAX	14.67	± 9.6 %
		symbols)			,
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18	WiMAX	14.49	± 9.6 %
40000		symbols)			
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18	WIMAX	14.58	± 9.6 %
10310	AAA	symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18	18034036	44 67	
10010	1	symbols)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	iDEN .	10.51	± 9.6 %
10314	AAA	iDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6%
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396 10399	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA AAD	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle) IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN WLAN	8.60 8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 % ± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
		Subframe=2,3,4,7,8,9, Subframe Conf=4)		1.02	± 0.0 /0
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.14	± 9.6 %
10419	AAA	Long preambule) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	1841 631	0.10	10000
10413	__\\	Short preambule)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	0 20	1060/
10423	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, 16-QAM)	WLAN	8.32 8.47	±9.6%
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 % ± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6%
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6%
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10447	A A D	Subframe=2,3,4,7,8,9)			
10447 10448	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-1M 3.1, Clipping 44%) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	±9.6 %
10-700	11/10	ETE TOO (OF DIVIN, 20 WITZ, ETTW 3.1, CHIPPING 44%)	LTE-FDD	7.48	± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6 %
10461	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.82	±9.6 %
		Subframe=2,3,4,7,8,9)			
10462	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	± 9.6 %
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9,6 %
10464	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10466	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10467	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10468	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL.	LTE-TDD	8.32	± 9.6 %
10469	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
10470	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10471	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10472	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10473	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10474	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10475	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10477	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10478	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10479	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
10480	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.18	± 9.6 %
10481	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
10482	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL	LTE-TDD	7.71	± 9.6 %
10483	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.39	± 9.6 %
10484	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.47	± 9.6 %
10485	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL	LTE-TDD	7.59	± 9.6 %
		Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.38	± 9.6 %
10486	AAE	Subframe=2,3,4,7,8,9)			
10487	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10488	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	± 9.6 %
10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10490	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %

10492						
1949a	10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.41	± 9.6 %
19494	10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.55	± 9.6 %
10496	10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
10496	10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.37	± 9.6 %
1049 AAA	10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
10498	10497	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
10499	10498	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.40	± 9.6 %
10500	10499	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.68	± 9.6 %
10501 AAB LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL LTE-TDD 6.44 ± 9.6 % Subframe=2,3.4,7.8,9) 10502 AAB LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL LTE-TDD 7.72 ± 9.6 % Subframe=2,3.4,7.8,9) 10503 AAE LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL LTE-TDD 7.72 ± 9.6 % Subframe=2,3.4,7.8,9) 10504 AE LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL LTE-TDD 8.31 ± 9.6 % Subframe=2,3.4,7.8,9) 10505 AE LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL LTE-TDD 8.54 ± 9.6 % Subframe=2,3.4,7.8,9) 10506 AE LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 % Subframe=2,3.4,7.8,9) 10507 AAE LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL LTE-TDD 8.36 ± 9.6 % Subframe=2,3.4,7.8,9) 10508 AAE LTE-TDD (SC-FDMA, 100% RB, 10 MHz, GP-QAM, UL LTE-TDD 8.56 ± 9.6 % Subframe=2,3.4,7.8,9) 10509 AAE LTE-TDD (SC-FDMA, 100% RB, 10 MHz, GP-QAM, UL LTE-TDD 8.55 ± 9.6 % Subframe=2,3.4,7.8,9) 10510 AAE LTE-TDD (SC-FDMA, 100% RB, 15 MHz, GP-QAM, UL LTE-TDD 8.55 ± 9.6 % Subframe=2,3.4,7.8,9) 10511 AAE LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL LTE-TDD 8.49 ± 9.6 % Subframe=2,3.4,7.8,9) 10512 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL LTE-TDD 8.49 ± 9.6 % Subframe=2,3.4,7.8,9) 10513 AAF LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL LTE-TDD 8.49 ± 9.6 % Subframe=2,3.4,7.8,9) 10514 AAF LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL LTE-TDD 8.42 ± 9.6 % Subframe=2,3.4,7.8,9) 10515 AAA LEEE 802.11b WiFl 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) WLAN 1.57 ± 9.6 % Subframe=2,3.4,7.8,9) 10516 AAA LEEE 802.11b WiFl 5.4 GHz (DSSS, 5 Mbps, 99pc duty cycle) WLAN 1.57 ± 9.6 % Subframe=2,3.4,7.8,9) 10517 AAA LEEE 802.11b WiFl 5.4 GHz (DSSS, 5 Mbps, 99pc duty cycle) WLAN 1.58 ± 9.6 % Subframe=2,3.4,7.8,9) Subframe=2,3.4,7.8,9) Subframe=2,3.4,7.8,9 Subframe=2,3.4,7.8,9 Subframe	10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
10502	10501	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.44	± 9.6 %
10503	10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.52	± 9.6 %
10504	10503	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL	LTE-TDD	7.72	± 9.6 %
10505	10504		LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD S.36 ± 9.6 % Subframe=2,3,4,7,8,9 Subframe=2,3,4,7,8,9 Subframe=2,3,4,7,8,9 LTE-TDD SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL LTE-TDD S.55 ± 9.6 % Subframe=2,3,4,7,8,9 Subframe=2,3,4,7,8,9 LTE-TDD SC-FDMA, 100% RB, 15 MHz, QPSK, UL LTE-TDD T.99 ± 9.6 % Subframe=2,3,4,7,8,9 Subframe=2,3,4,7,8,9 LTE-TDD SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL LTE-TDD S.49 ± 9.6 % Subframe=2,3,4,7,8,9 Subframe=2,3,4,7,8,9 Subframe=2,3,4,7,8,9 LTE-TDD SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL LTE-TDD S.51 ± 9.6 % Subframe=2,3,4,7,8,9 Subframe=2,	10505	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
10507	10506	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9 ± 9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9 ± 9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL LTE-TDD (SC-PDMA, 100% RB, 20 MHz, 16-QAM, UL LTE-TDD (SC-PDMA, 100% RB, 20 MHz, 16-QAM, UL LTE-TDD		AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.36	± 9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD S.49 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD S.51 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD S.52 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD S.42 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD S.53 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD S.45 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) WLAN 1.58 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) WLAN 1.58 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) WLAN S.23 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN S.39 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN S.45 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN S.45 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN S.46 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN S.46 ±9.6 % Subframe=2,3,4,7,8,9 LEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN S.46 ±9.6 % Subframe=2,3,4,7,8,9		AAE	Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) WLAN		AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
Subframe=2,3,4,7,8,9		AAE	Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD S.42			Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6%
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD S.45			Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
Subframe=2,3,4,7,8,9 1.0515		AAF	Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10516 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) WLAN 1.57 ± 9.6 % 10517 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) WLAN 1.58 ± 9.6 % 10518 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) WLAN 8.23 ± 9.6 % 10519 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) WLAN 8.39 ± 9.6 % 10520 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 ± 9.6 % 10521 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ± 9.6 % 10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36		AAF	Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10516 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) WLAN 1.57 ± 9.6 % 10517 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) WLAN 1.58 ± 9.6 % 10518 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) WLAN 8.23 ± 9.6 % 10519 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) WLAN 8.39 ± 9.6 % 10520 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 ± 9.6 % 10521 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ± 9.6 % 10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36			IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6 %
10517 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) WLAN 1.58 ± 9.6 % 10518 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) WLAN 8.23 ± 9.6 % 10519 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) WLAN 8.39 ± 9.6 % 10520 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 ± 9.6 % 10521 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ± 9.6 % 10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.21 ± 9.6			IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)		1.57	
10518 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) WLAN 8.23 ± 9.6 % 10519 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) WLAN 8.39 ± 9.6 % 10520 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 ± 9.6 % 10521 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ± 9.6 % 10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 %		1	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)		1.58	± 9.6 %
10520 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 ± 9.6 % 10521 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ± 9.6 % 10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)			IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)		8.23	
10520 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 ± 9.6 % 10521 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ± 9.6 % 10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)			IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10521 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ± 9.6 % 10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN			IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)		-	
10522 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ± 9.6 % 10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN						
10523 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ± 9.6 % 10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %				WLAN	8.45	
10524 AAB IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ± 9.6 % 10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %			IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN		
10525 AAB IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %			IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)			
10526 AAB IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) WLAN 8.42 ± 9.6 % 10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %			IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)			
10527 AAB IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) WLAN 8.21 ± 9.6 % 10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %			IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)		8.42	
10528 AAB IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %			IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)		8.21	
10529 AAB IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) WLAN 8.36 ± 9.6 % 10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %					8.36	± 9.6 %
10531 AAB IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) WLAN 8.43 ± 9.6 % 10532 AAB IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) WLAN 8.29 ± 9.6 % 10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %					8.36	± 9.6 %
10533 AAB IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) WLAN 8.38 ± 9.6 %			IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)			
10F04			IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)			
10004 AAD IEEE 802.T1ac WIFI (40MHz, MCS0, 99pc duty cycle) WLAN 8.45 ± 9.6 %						
	10034	AAB	LIEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %

40505	1 4 4 5		1 1411 453	0.45	
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6 %
10537	AAB	IEEE 802.11ac WIFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±96%
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6%
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6%
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6%
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6%
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8,25	± 9.6 %
	' ' ' '	cycle)			
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	± 9.6 %
40507	1 A A A	cycle)	10/1 A N I	- 0.00	1000
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
40500		cycle)	1071 0.01	0.07	1000
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	±9.6 %
40500		cycle)	WLAN	8.10	+0.6.9/
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAIN	0.10	± 9.6 %
40E70	^ ^	cycle)	MI ANI	1 0 00	+06%
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
40574	1	cycle)	100 001	4.00	1000
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6%
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN	8.59	± 9.6 %
10576	1 ^ ^ ^	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN	9 60	+0.6%
10076	AAA	, , , , , ,	VVLAIN	8.60	± 9.6 %
10577	AAA	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN	970	± 9.6 %
100//	AAA		MATWIA	8.70	± 9.0 %
10570	000	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	VALL AND	0.40	± 9.6 %
10578	AAA		WLAN	8.49	T 9.0 %
40570	A A A	cycle)	JAM ANI	0.00	1069/
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty	WLAN	8.36	±9.6 %
40500	1	cycle)	30/1 0 0 1	0.70	10.60/
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN	8.76	± 9.6 %
40504		cycle)	14/1 431		1069
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN	8.35	± 9.6 %
10500	1	cycle)	14/1 4 5 1		
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN	8.67	± 9.6 %
40500		cycle)	18/1 811		1.000
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %

10500	T :				
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN		
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)		8.82	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10610		TEEE 002.1 fac Wiri (20MHz, NICS2, 90pc duty cycle)	WLAN	8.57	±9.6%
10610	AAB AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
		IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6%
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6%
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9,6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6%
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN		± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)		8.81	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10640	AAC	TEEE 802.11ac WIFT (TOUWITZ, WCS3, SUPC OUTY CYCIE)	WLAN	8.85	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641		IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9,6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6%
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6%
10652	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6%
10653	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %

10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LITE TOD	7.04	1000
10658	AAA	Pulse Waveform (200Hz, 10%)	LTE-TDD	7.21	±9.6 %
10659	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10660	AAA		Test	6.99	±9.6 %
10661	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6 %
10662	AAA	Pulse Waveform (200Hz, 60%) Pulse Waveform (200Hz, 80%)	Test	2.22	±9.6 %
10670	AAA	<u> </u>	Test	0.97	±9.6 %
		Bluetooth Low Energy	Bluetooth	2.19	±9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	± 9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)			
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.55	±9.6 %
10691	AAA		WLAN	8.29	±9.6%
10691	}	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6 %
	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6%
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)			
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10712	AAA		WLAN	8.67	± 9.6 %
10713		IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	± 9.6 %
	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6%
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	± 9.6 %
		,, -, -, -, -, -, -, -, -, -, -, -, -, -,			5.5 76

10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (60MHz, MCS1, 99pc duty cycle)	WLAN	8,46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	± 9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	± 9.6 %

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

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accreditation No.: SCS 0108

Certificate No: EX3-7488_Jan19

Accredited by the Swiss Accreditation Service (SAS)

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Client

Object

PC Test

CALIBRATION CERTIFICATE

EX3DV4 - SN:7488

Calibration procedure(s)

OM CALOLIAS, CIA CALOMAS, CIA CALOS VS, CIA GALOS V

Calbrelon procestors for scalmatric Ediald probes

12106(2019

Calibration date:

January 24, 2019

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Briman, Standardo	ID	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards		· · · · · · · · · · · · · · · · · · ·	
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

Calibrated by:

Name
Function
Signature
Laboratory Technician

Approved by:

Katja Pokovic
Technical Manager

Issued: January 29, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

Certificate No: EX3-7488 Jan19

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
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Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A, B, C, D modulation dependent linearization parameters

Polarization φ φ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., $\vartheta = 0$ is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

 a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

• NORMx,y,z: Assessed for E-field polarization θ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).

• NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.

DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.

 PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics

 Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.

• ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.

• Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.

 Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

 Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

January 24, 2019 EX3DV4 - SN:7488

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7488

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.45	0.49	0.50	± 10.1 %
DCP (mV) ^B	98.9	102.3	99.6	

Calibration Desults for Modulation Response

UID	ion Results for Modulation Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0 CW	CW	X	0.00	0.00	1.00	0.00	149.5	± 2.7 %	± 4.7 %
		Y	0.00	0.00	1.00		140.8		
		Z	0.00	0.00	1.00		138.2		
10352-	Pulse Waveform (200Hz, 10%)	X	10.21	80.63	15.98	10.00	60.0	± 3.1 %	± 9.6 %
AAA	1	Y	5.90	74.67	14.18		60.0		
		Z	15.00	89.30	20.53		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	85.88	16.55	6.99	80.0	± 2.1 %	±9.6 %
AAA	, , , ,	Y	15.00	84.35	15.79		80.0		
		Z	15.00	92.51	21.01		80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	15.00	90.08	17.19	3.98	95.0	± 1.3 %	± 9.6 %
AAA	•	Y	15.00	83.37	13.66		95.0		
		Z	15.00	104.27	25.33		95.0		
10355- Pulse	Pulse Waveform (200Hz, 60%)	X	15.00	97.36	19.30	2.22	120.0	± 1.2 %	± 9.6 %
AAA		Υ	0.26	60.00	4.43		120.0		
		Z	15.00	117.38	29.81		120.0		
10387-	QPSK Waveform, 1 MHz	Х	0.51	60.28	7.04	0.00	150.0	± 3.3 %	± 9.6 %
AAA		Y	0.47	60.00	5.79		150.0]	
		Z	0.61	61.09	8.42		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.29	69.54	16.64	0.00	150.0	± 1.1 %	± 9.6 %
AAA		Y	1.90	66.64	14.97		150.0		
		Z	2.23	68.54	16.09		150.0		<u> </u>
10396-	64-QAM Waveform, 100 kHz	Х	2.94	72.04	19.55	3.01	150.0	± 0.7 %	± 9.6 %
AAA		Y	2.49	68.13	17.71		150.0]	
		Z	3.35	73.33	20.07		150.0	<u> </u>	
10399-	64-QAM Waveform, 40 MHz	Х	3.54	67.80	16.20	0.00	150.0	± 2.2 %	± 9.6 %
AAA		Y	3.42	67.12	15.74		150.0]	
		Z	3.49	67.32	15.92		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	Х	4.65	65.56	15.55	0.00	150.0	± 4.0 %	± 9.6 %
AAA		Υ	4.74	65.87	15.68		150.0		
		Z	4.80	65.75	15.62		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 and 6).

Representation parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7488

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
X	35.2	259.64	34.83	7.55	0.00	5.04	1.52	0.11	1.01
Y	34.3	261.80	36.90	6.01	0.21	5.06	0.00	0.41	1.01
Z	40.7	301.53	35.10	11.37	0.14	5.09	1.94	0.15	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-129.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7488

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.77	10.77	10.77	0.56	0.80	± 12.0 %
835	41.5	0.90	10.37	10.37	10.37	0.40	0.93	± 12.0 %
1750	40.1	1.37	8.87	8.87	8.87	0.33	0.84	± 12.0 %
1900	40.0	1.40	8.53	8.53	8.53	0.27	0.84	± 12.0 %
2300	39.5	1.67	8.25	8.25	8.25	0.33	0.85	± 12.0 %
2450	39.2	1.80	7.86	7.86	7.86	0.34	0.90	± 12.0 %
2600	39.0	1.96	7.69	7.69	7.69	0.35	0.86	± 12.0 %
5250	35.9	4.71	5.35	5.35	5.35	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.70	4.70	4.70	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.03	5.03	5.03	0.40	1.80	± 13.1 %

Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7488

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55,5	0.96	11.28	11.28	11.28	0.46	0.80	± 12.0 %
835	55.2	0.97	11.03	11.03	11.03	0.46	0.81	± 12.0 %
1750	53.4	1.49	8.68	8,68	8.68	0.38	0.88	± 12.0 %
1900	53.3	1.52	8.37	8.37	8.37	0.38	0.88	± 12.0 %
2300	52.9	1.81	8.21	8.21	8.21	0.42	0.84	± 12.0 %
2450	52.7	1.95	8.07	8.07	8.07	0.35	0.98	± 12.0 %
2600	52.5	2.16	7.94	7.94	7.94	0.25	0.95	± 12.0 %
5250	48.9	5.36	4.82	4.82	4.82	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.09	4.09	4.09	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.32	4.32	4.32	0.50	1.90	± 13.1 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

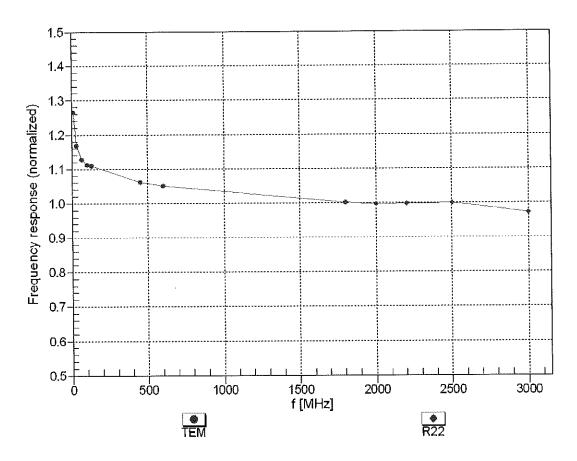
F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if fliquid compensation formula is applied to

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

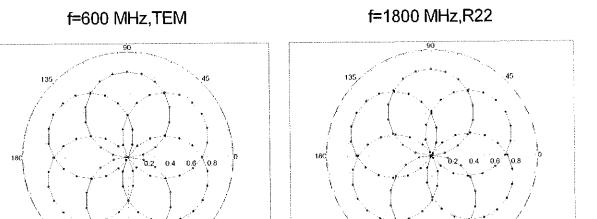
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



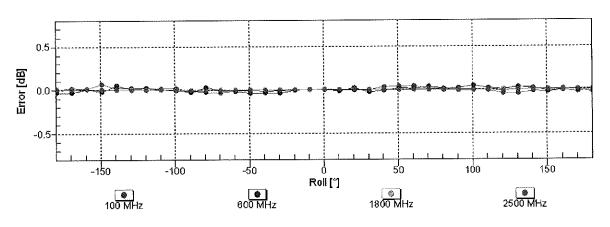
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Tot

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

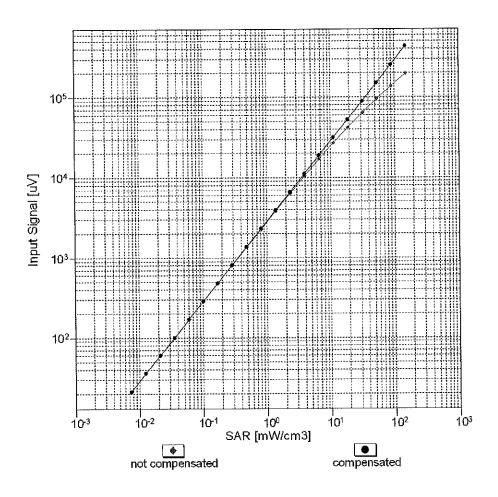


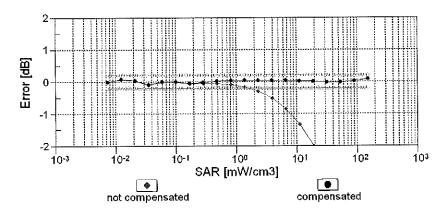
Tot



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

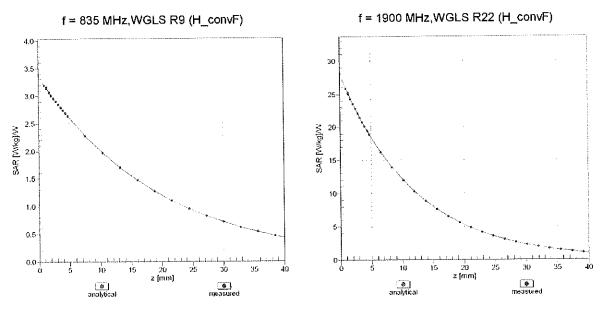
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



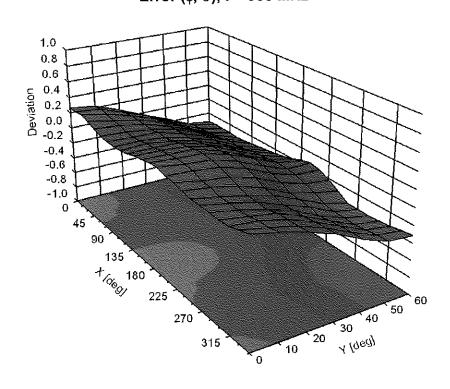


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ , ϑ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR	Unc
		•		(dB)	(k=2)
0	1	CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6 %
10033	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10044	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Pull Slot, 24)	DECT	10.79	± 9.6 %
10043	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA		
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	11.01 6.52	± 9.6 % ± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 3.5 Mbps)	WLAN	3.60	
10061	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN		
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.09	±9.6%
10066	CAC			9.00	±9.6%
10066	-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	9.38	±9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.12	±9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10009	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	10.56	± 9.6 %
			WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6%
10073 10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6%
	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6%
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6%
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10404	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10104					
10104 10105 10108	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD LTE-FDD	10.01 5.80	± 9.6 %

			T		
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15 8.07	± 9.6 % ± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN WLAN	8.59	± 9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10119	CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.53	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6%
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6%
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD LTE-FDD	6.52 6.49	± 9.6 % ± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	9.21	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10173 10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	10.25	± 9.6 %
10174		LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)	LTE-FDD	5.72	± 9.6 %
	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10176 10177	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 10-QAM)	LTE-FDD	5,73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

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10220 10221	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6 %
10223		IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6%
10227	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6%
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6%
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10233	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10236	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6%
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6%
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6%
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6%
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6%
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6%
10258	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6%
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262		LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

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10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6%
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	±9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL	WIMAX	12.57	± 9.6 %
10303	ΛΛΛ	symbols) IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6%
10303	AAA AAA	IEEE 802.16e WIMAX (31.15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6 %
10304	AAA	IEEE 802.16e WIMAX (25.16, 5115, 10MHz, 64QAM, PUSC, 15	WIMAX	15.24	± 9.6 %
10000	7001	symbols)	VVIIVII-L/X	10.24	10.0 /6
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WiMAX	14.67	± 9.6 %
10000	' ' ' '	symbols)	*******	1 1.01	20.0 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18	WiMAX	14.49	±9.6%
10001	' ' ' ' '	symbols)			
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	±96%
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18	WiMAX	14.58	± 9.6 %
		symbols)			
10310	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18	WIMAX	14.57	±9.6%
		symbols)			
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6 %
10313	AAA	IDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAA	IDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6%
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6%
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6%
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6%
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6%
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6%
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6%
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
40444		Subframe=2,3,4,7,8,9, Subframe Conf=4)	Generic	8.54	± 9.6 %
10414 10415	AAA	WLAN CCDF, 64-QAM, 40MHz IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10416 10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.14	± 9.6 %
10410	7777	Long preambule)	VV L., T (4	0.17	2 0.0 /0
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.19	± 9.6 %
10410	' ' ' '	Short preambule)			
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10435	70"		1	1	1
		Subframe=2,3,4,7,8,9)			
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6 %
10447 10448	AAD AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)			

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6%
10462	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	± 9.6 %
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10464	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10466	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10467	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10468	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10469	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10472	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6 %
10479	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6%
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6%
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)	LTE-TDD	8.45	±9.6%
10482	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	± 9.6 %
10483	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	± 9.6 %
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	± 9.6 %
10485	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	± 9.6 %
10486	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	± 9.6 %
10487	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10488	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	± 9.6 %
10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10490	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %

10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.55	±9.6%
10494	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10497	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10498	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	± 9.6 %
10499	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	± 9.6 %
10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2.3.4,7.8.9)	LTE-TDD	7.67	± 9.6 %
10501	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	± 9.6 %
10503	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	± 9.6 %
10504	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10505	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10507	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6 %
10508	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6%
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6%
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %

10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi (100WiFiz, WCS9, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10304	AAA	cycle)	MATCHIA	0.23	1 9.0 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6 %
10000	1,00,	cycle)	112,01	5.15	- 5.5 /5
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	±9.6 %
		cycle)			
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
		cycle)			
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	±9.6%
		cycle)			
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
		cycle)			
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	±9.6 %
		cycle)			
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN	8.59	± 9.6 %
<u></u>	<u> </u>	cycle)			
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN	8.60	± 9.6 %
	<u> </u>	cycle)			
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN	8.70	± 9.6 %
15 ==	.	cycle)	1.6.1.		
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN	8,49	± 9.6 %
	1	cycle)			0.00
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty	WLAN	8.36	± 9.6 %
10-00	 	cycle)	140. 441		. 0 0 0/
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN	8.76	± 9.6 %
40504	 	cycle)	140.41	0.05	1060/
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN	8.35	± 9.6 %
40500	1000	cycle)	MI AN	0.67	1069/
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN	8.67	± 9.6 %
40500	1 A A D	cycle)	JAH AN	9 50	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6 % ±9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN WLAN	8.70	
10586	AAB	IEEE 802.11a/h WiFl 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	VALVAIA	8.36	± 9.6 %

10588	AAD	IEEE 902 110/h WiEi 5 CHz (OEDM 26 Mbps, 00ps duty systs)	I MATE AND	0.76	1 + 0 6 9/ 1
10589	AAB AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN	8.76	±9.6%
10509	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.35	±96%
10590	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.67	±9.6%
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63 8.79	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8,64	± 9.6 % ± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6%
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN		
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74 8.71	±9.6 % ±9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 30pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6%
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6%
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621 10622	AAB AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN WLAN	8.68	±9.6%
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82 8.96	±9.6%
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 % ± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6%
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6%
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6%
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6%
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±96%
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652 10653	AAD AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6%
10654	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD LTE-TDD	7.42 6.96	± 9.6 % ± 9.6 %
10004	ראט	LIL IDD (OF DIVING TO WITE, E-1W 3.1, OIIPPING 44 /0)	I E I E I I I D	0.80	T 9.0 %

10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %

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

Calibration Laboratory of Schmid & Partner **Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Certificate No: EX3-7410_Jul18

Client

PC Test

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7410

Calibration procedure(s) QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

07/26/2018

Calibration date:

July 20, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Oct-18

Name Function Calibrated by:

Michael Weber Laboratory Technician

Katja Pokovic Technical Manager

Issued: July 21, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: EX3-7410_Jul18

Approved by:

Page 1 of 39

Calibration Laboratory of

Schmid & Partner **Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF DCP

sensitivity in TSL / NORMx,y,z diode compression point

CF

crest factor (1/duty cycle) of the RF signal modulation dependent linearization parameters

A, B, C, D Polarization o

φ rotation around probe axis

Polarization 9

9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle

information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization $\vartheta = 0$ (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E2-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Probe EX3DV4

SN:7410

Manufactured: November 24, 2015

Calibrated:

July 20, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.41	0.47	0.43	± 10.1 %
DCP (mV) ^B	93.6	99,2	96.3	

Modulation Calibration Parameters

UID	Communication System Name		Α	В	С	D	VR	Unc ^E
			dB	dB√μV		dB	mV	(k=2)
0	CW	Х	0.0	0,0	1.0	0.00	142.1	±2.5 %
		Υ	0.0	0.0	1.0		157.1	
<u> </u>		Z	0.0	0.0	1.0		143.0	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
Х	32,22	246.3	37.01	4.015	0.380	5.018	0.000	0.327	1.006
Υ	34.20	252.5	34.94	7.011	0.000	5.034	0.846	0.193	1.003
Z	38.58	298.4	37.77	5.097	0.373	5.059	0.000	0.338	1.011

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^B Numerical linearization parameter: uncertainty not required.

A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 and 6).

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)				
750	41.9	0.89	10.13	10.13	10.13	0.37	0.98	± 12.0 %				
835	41.5	0.90	9.81	9.81	9.81	0.47	0.80	± 12.0 %				
1750	40.1	1.37	8.40	8.40	8.40	0.60	0.80	± 12.0 %				
1900	40.0	1.40	8.16	8.16	8.16	0.56	0.80	± 12.0 %				
2300	39.5	1.67	7.78	7.78	7.78	0.32	0.85	± 12.0 %				
2450	39.2	1.80	7.50	7.50	7.50	0.34	0.84	± 12.0 %				
2600	39.0	1.96	7.24	7.24	7.24	0.32	0.89	± 12.0 %				

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

At frequencies below 2 CHz the contract of the c

F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	9.87	9.87	9.87	0.33	1.02	± 12.0 %
835	55.2	0.97	9.63	9.63	9.63	0.42	0.86	± 12.0 %
1750	53.4	1.49	8.06	8.06	8.06	0.35	0.85	± 12.0 %
1900	53.3	1.52	7.78	7.78	7.78	0.39	0.80	± 12.0 %
2300	52.9	1.81	7.64	7.64	7.64	0.35	0.85	± 12.0 %
2450	52.7	1.95	7.45	7.45	7.45	0.32	0.86	± 12.0 %
2600	52.5	2.16	7.34	7.34	7.34	0.31	0.94	± 12.0 %

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

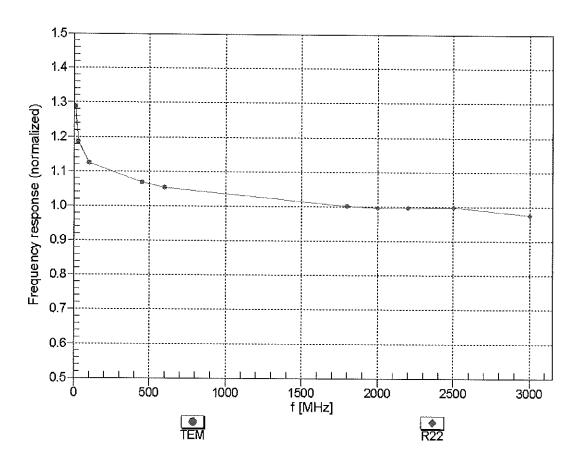
F At frequencies below 3 CHz, the contribute of the co

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

the ConvF uncertainty for indicated target tissue parameters.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

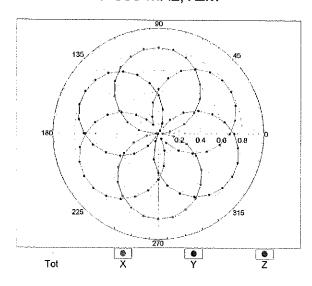


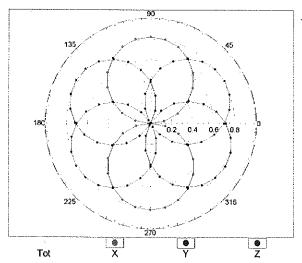
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

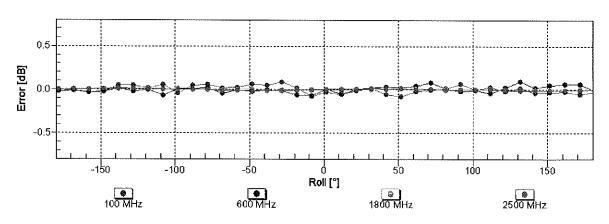
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM

f=1800 MHz,R22



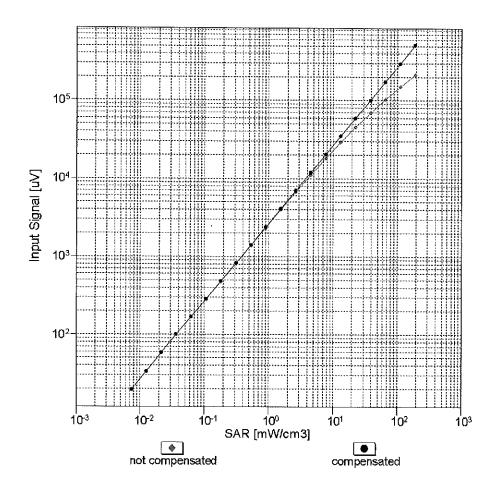


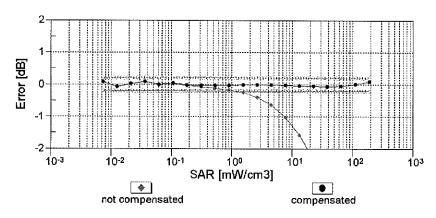


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

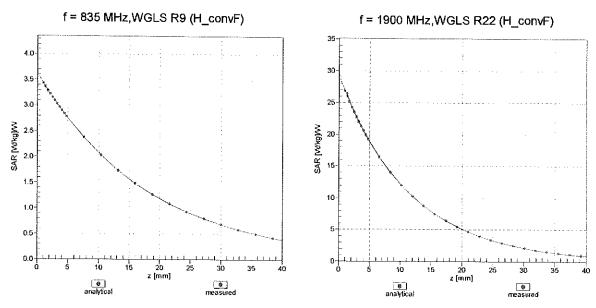
(TEM cell , f_{eval}= 1900 MHz)



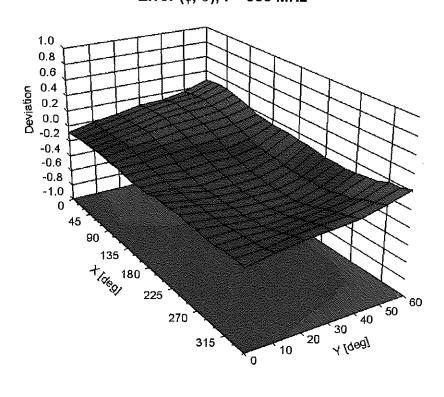


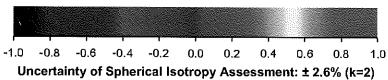
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz





Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	1.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

EX3DV4- SN:7410 July 20, 2018

Appendix: Modulation Calibration Parameters

ÜİD	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	142.1	± 2.5 %
		Υ	0.00	0.00	1.00		157.1	
10010		Z	0.00	0.00	1.00		143.0	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	1.62	62.34	7.74	10.00	20.0	± 9.6 %
		Υ	1.47	62.51	7.58		20.0	
		Z	1.74	63.23	8.42		20.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	0.82	65.36	13.43	0.00	150.0	± 9.6 %
		Υ	1.01	68.19	15.53		150.0	
10010	IEEE 000 441 MEELO 4 OUL (DOOG 4	Z	0.83	64.89	13.22	0.44	150.0	2.2.24
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.03	62.67	14.19	0.41	150.0	± 9.6 %
		Y	1.12	63.85	15.21		150.0	
10013-	IEEE 902 44a WEE 2 4 CU - (DOOG	Z	1.03	62.50	14.16	4 40	150.0	1000
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.54	66.46	16.76	1.46	150.0	± 9.6 %
		Y	4.63	66.78	17.00		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	4.66 13.15	66.40 84.51	16.88 17.52	9.39	150.0 50.0	± 9.6 %
<i>D7</i> (O		Υ	100.00	105.54	22.55		50.0	
		Z	100.00	109.08	24.59		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	7.05	77.63	15.35	9.57	50.0	± 9.6 %
1		Υ	100.00	104.89	22.31		50.0	
		Z	100.00	108.55	24.42		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	100.00	103.12	20.53	6.56	60.0	± 9.6 %
		Υ	100.00	106.39	21.86		60.0	
		Z	100.00	108,56	23.07		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	3.34	64.62	22.65	12.57	50.0	± 9.6 %
·····		Υ	5.12	80.55	32.48		50.0	
		Z	3.40	65.03	23.22		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	5.08	79.74	27.91	9.56	60.0	± 9.6 %
		Y	6.12	86.23	31.42		60.0	1
10027-	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	Z X	5.62 100.00	82.16 101.64	29.24 19.06	4.80	60.0 80.0	± 9.6 %
DAC		Υ	100.00	109.60	22.50		90.0	
		Z	100.00	109.60	22.50 22.18	 	80.0 80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	99.62	17.55	3.55	100.0	± 9.6 %
<u> </u>		Y	100.00	115.32	24.21		100.0	
		Ż	100.00	107.61	21.03	***************************************	100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Х	3.55	72.28	23.51	7.80	80.0	± 9.6 %
		Υ	3.97	75.71	25.59		80.0	
		Z	3.84	73.87	24.49		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	2.93	72.58	11.67	5.30	70.0	± 9.6 %
		Υ	100.00	104.73	20.69		70.0	
		Z	100.00	105.98	21.40		70.0	ļ
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	0.19	60.00	3,86	1.88	100.0	± 9.6 %
		Y	100.00	108.46	20.17		100.0	
		<u> </u>	0.20	60.00	4.39		100.0	1

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	8.28	60.36	1.45	1.17	100.0	± 9.6 %
		Y	100.00	125.60	25.79		100.0	
		Ż	9.15	64.10	3.12		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Х	3,18	74.95	16.76	5.30	70.0	± 9.6 %
		Υ	16.17	99.83	25.75		70.0	
		Z	6.70	87.29	22.45		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	1.10	65.34	10.90	1.88	100.0	± 9.6 %
		Υ	2.67	76.50	16.58		100.0	
40005	IEEE 000 (F 4 DL) (1/2 DL) DODA(Z	1.54	69.44	13.90		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	0.87	63.89	9.87	1.17	100.0	± 9.6 %
		Y	1.73	72.02	14.58		100.0	
40000	IFFE 000 45 4 Physically (0 PPO(4 PHA)	Z	1.13	66.49	12.17		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	3.74	77.33	17.73	5.30	70.0	± 9.6 %
		Y	34.06	110.90	28.74		70.0	
40007	IEEE 000 ds 4 Plust 11 (0 PROM Time	Z	9.80	93.25	24.40	<u></u>	70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Х	1.04	64.82	10.64	1.88	100.0	± 9.6 %
		Y	2.27	74.65	15.89		100.0	
10020	IEEE 000 45 4 Physical 42 C PROV.	Z	1.43	68.68	13.56		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Х	0.88	64.05	10.08	1.17	100.0	± 9.6 %
		Υ	1.75	72.43	14.90		100.0	
40000	ODMANOON (4 DTT DOA)	Z	1.13	66.71	12.40		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	0.74	62,99	8.94	0.00	150.0	± 9.6 %
		Υ	1.38	69.75	13.20		150.0	
10010		Z	0.98	64.89	10.73		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	2,54	68.84	11.04	7.78	50.0	± 9.6 %
		Υ	100.00	102.42	20.46		50.0	
40044	10.04/5/4/5/4/5/4/5/4/5/4/5/4/5/4/5/4/5/4/5	Z	100.00	104.71	21.76	****	50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.06	120.88	5.44	0.00	150.0	± 9.6 %
		Υ	0.00	104.37	4.38		150.0	
40040	DECT (TDD TDM//SDM GTG)	Z	0.08	121.43	6.73		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	4.91	69.00	13.47	13.80	25.0	± 9.6 %
		Y	7.93	75.14	15.14		25.0	
10049-	DEOT /TDD TDMA/EDM OFOX D	Z	10.77	79.26	17.66		25.0	
CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	4.71	71.69	13.37	10.79	40.0	± 9.6 %
		Υ	12,12	82.16	16.51		40.0	
10056-	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Z	15.08	85.95	18.75		40.0	
CAA	OWITS-TOD (TO-SCOWA, 1.28 Mcps)	X	9.20	83.60	20.05	9.03	50.0	± 9.6 %
		Y	100.00	119.47	30.42		50.0	
10058-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Z	26.92	101.32	26.50		50.0	
DAC	EDGE-FDD (TDWA, 6PSK, TN U-1-2-3)	X	2.97	69.27	21.35	6.55	100.0	± 9.6 %
·		Y	3.27	71.77	22.91	· · · · · · · · · · · · · · · · · · ·	100.0	
10059~ CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Z X	3:17 1.02	70.45 63.20	22.11 14.50	0.61	100.0 110.0	± 9.6 %
		Υ	1.12	64.64	15.70		440.0	
		ż	1.03	63,16	14.59		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	1.55	78.45	19.20	1.30	110.0 110.0	± 9.6 %
	1/	Y	11.63	111.29	30.45		110.0	
		Z	2.11	82.91	21.03			
		-	<u> </u>	ا ت	۵۱.۷۵		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	1.39	70.50	17.86	2.04	110.0	± 9.6 %
		Υ	1.94	76.74	21.24		110.0	
		Z	1.58	72.59	19.16		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.34	66.44	16.20	0.49	100.0	± 9.6 %
		Υ	4.45	66.80	16.45		100.0	
		Z	4.46	66.35	16.27		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	4.35	66.52	16.28	0.72	100.0	± 9.6 %
		Y	4.46	66.88	16.54		100.0	
40004	LEEE COO AA A MUSEUS COLL (OFFILM AS	Z	4.47	66.44	16.36		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.58	66.71	16.48	0.86	100.0	± 9.6 %
		Y Y	4.69	67.07	16.73		100.0	
10065-		Z	4.73	66.68	16.59	4.04	100.0	1000
CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.45	66.52	16.53	1.21	100.0	± 9.6 %
		Y	4.56	66.89	16.79		100.0	
10066	HEET 900 44 alls MIET 5 OUE (OFDIA 04	Z	4.60	66.53	16.67	4 40	100.0	1000
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.45	66.48	16.65	1.46	100.0	± 9.6 %
		Y	4.56	66.86	16.93		100.0	
10067-	IEEE 000 44-7- WIELE OUT (OEDM 00	Z X	4.61	66.54	16.84	0.04	100.0	1000
CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)		4.73	66.77	17.13	2.04	100.0	± 9.6 %
		Y	4.84	67.12	17.40		100.0	
40000	VEEE 000 44 - % VIIII COLL- (OEDM 40	Z	4.90	66.81	17.33	0.55	100.0	1000
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	4.76	66.66	17.29	2.55	100.0	± 9.6 %
		Υ	4.86	67.00	17.55		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Z	4.92 4.81	66.73 66.68	17.50 17.46	2.67	100.0	± 9.6 %
OAO	(Nibba)	Y	4.92	67.01	17.74		100.0	
		Ż	5.00	66.78	17.71		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.62	66.50	17.03	1.99	100.0	± 9.6 %
		Y	4.72	66.82	17.28		100.0	
***************************************		Z	4.75	66.47	17.18		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	4.56	66.67	17.18	2.30	100.0	± 9.6 %
		Υ	4.66	67.03	17.45		100.0	
		Z	4.70	66.70	17.36		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.61	66.83	17.49	2.83	100.0	± 9.6 %
		Υ	4.71	67.17	17.77		100.0	
		Z	4.75	66.85	17.68	_	100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.62	66.77	17.64	3.30	100.0	± 9.6 %
		Υ	4.70	67.09	17.92		100.0	ļ
		Z	4.74	66.75	17.83		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.63	66.75	17.86	3.82	90.0	± 9.6 %
		Y	4.71	67.06	18.15		90.0	ļ
105-5	LEEG COO LL COMPTE LA COMPTE	Z	4.76	66.76	18.09		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.68	66.63	18.04	4.15	90.0	± 9.6 %
		Y	4.74	66.91	18.31		90.0	
		Z	4.79	66.61	18.24	<u> </u>	90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	Х	4.71	66.72	18.15	4.30	90.0	± 9.6 %
		Υ	4.77	66.99	18.42		90.0	
		Z	4.82	66.69	18.35		90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.41	60.41	6.86	0.00	150.0	± 9.6 %
,		Υ	0.64	64.39	10.26		150.0	
		Z	0.51	61.51	8.28		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	6.37	60.67	1.90	4.77	80,0	± 9.6 %
		Υ	0.58	60.00	3.05		80.0	
		Z	0.60	60.00	3.10		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	Х	100.00	103.19	20.57	6.56	60.0	±9.6 %
		Y	100.00	106.40	21.88		60.0	
40007	LIMITO EDD (LIODEA)	Z	100.00	108.67	23.14		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	1.61	66.98	14.45	0.00	150.0	± 9.6 %
		Y	1.83	68.94	15.87		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	Z	1.61	66.33	14.36	0.00	150.0	
CAB	UMTS-FDD (NSOPA, Subtest 2)		1.57	66.91	14.41	0.00	150.0	± 9.6 %
		Y	1.80	68.88	15.85		150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z	1.57	66.26	14.32	0.50	150.0	1000
DAC	LUGL-1 DD (TDIWA, OPSK, TN U-4)		5.11	79.85	27.95	9.56	60.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	6.18	86.42	31.49		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	5.66 2.72	82.29	29.29	0.00	60.0	1.000
CAE	MHz, QPSK)			68.86	15.96	0.00	150.0	± 9.6 %
		Y	2.98	70.42	16.85		150.0	
10101-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	2.77	68.66	15.78	0.00	150.0	
CAE	MHz, 16-QAM)	Х	2.94	66.71	15.42	0.00	150.0	±9.6 %
		Υ	3.09	67.54	15.94		150.0	
40400	1.TE EDD (00 EDM) 1000(ED 00	Z	3.00	66.60	15.35		150.0	
10102- CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.05	66.78	15.55	0.00	150.0	± 9.6 %
~		Υ	3.19	67.54	16.04		150.0	
40400		Z	3.11	66.65	15.49		150.0	
10103- CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	4.63	72.33	19.10	3.98	65.0	± 9.6 %
		Υ	5.31	74.95	20.40		65.0	
10101		Z	5.01	73.33	19.72		65.0	
10104- CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	4.71	70.15	18.78	3.98	65.0	± 9.6 %
		Y	5.12	71.87	19.74		65.0	
40405	LTE TDD (OO EDIM 4000) DD 00	Z	4.99	70.84	19.32		65.0	
10105- CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	4.62	69.52	18.79	3.98	65.0	± 9.6 %
		Y	4.98	71.08	19.67		65.0	
10108-	LTE EDD (SO EDMA 4000) ED 40	Z	4.89	70.18	19.31		65.0	
CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.32	68.23	15.74	0.00	150.0	± 9.6 %
		Y	2.56	69.77	16.68		150.0	
10100	LITE EDD (DO EDMA 4000) FE 10	Z	2.39	67.99	15.57		150.0	
10109- CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	2.57	66.62	15.17	0.00	150.0	± 9.6 %
		Υ	2.73	67.56	15.82		150.0	
40440	LTE EDD (OO ED) (A COST = 5	Z	2.64	66.42	15.13		150.0	
10110- CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	1.82	67.31	15.00	0.00	150.0	± 9.6 %
		Υ	2.06	69.08	16.19		150.0	
40444		Z	1.89	67.03	14.94		150.0	
10111- CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	2.27	67.56	15.11	0.00	150.0	± 9.6 %
		Υ	2.50	68.95	16.11		150.0	
		Z	2.32	67.14	15.12		150.0	

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10112- CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.70	66.75	15.29	0.00	150.0	± 9.6 %
	Thin 2, or so this	Υ	2.86	67.62	15.89		150.0	
		Ζ	2.77	66.52	15.24		150.0	
10113- CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	2.41	67.80	15.29	0.00	150.0	± 9.6 %
		Υ	2.64	69.12	16.24		150.0	
		Z	2.47	67.38	15.32		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.85	66.91	16.28	0.00	150.0	± 9.6 %
		Υ	4.92	67.20	16.42		150.0	
		Z	4.93	66.80	16.23		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.08	66.97	16.31	0.00	150.0	± 9.6 %
		Y	5.16	67.24	16.44		150.0	
40440	IEEE 000 44 - (UT O S. L.I. 405 MI	Z	5.19	66.91	16.30		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	4.91	67.06	16.28	0.00	150.0	± 9.6 %
		<u> Y</u>	5.00	67.37	16.44		150.0	
40447		Z	5.02	67.01	16.26	0.00	150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.82	66.80	16.24	0.00	150.0	± 9.6 %
		Y	4.91	67.14	16.41		150.0	
10110	IEEE OOO 44 70FM 4 O4 M	Z	4.92	66.75	16.22	0.00	150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.15	67.18	16.42	0.00	150.0	± 9.6 %
		Y	5.23	67.42	16.54		150.0	
40440	IEEE 000 44. (UTMC 1.405 Mb 04	Z	5.28	67.15	16.43	0.00	150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	×	4.92	67.09	16.30	0.00	150.0	± 9.6 %
		Υ	5,00	67.37	16.45		150.0	
		Z	5.02	67.00	16.27		150.0	
10140- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.06	66.79	15.45	0.00	150.0	± 9.6 %
		Υ	3.21	67.57	15.95		150.0	
		Z	3.13	66.66	15.40		150.0	. 0.00/
10141- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.19	67.01	15.68	0.00	150.0	± 9.6 %
		Υ	3.34	67.73	16.14		150.0	
		Z	3.26	66.83	15.61		150.0	
10142- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.53	66.71	13.85	0.00	150.0	± 9.6 %
		Υ	1.82	69.13	15.54		150.0	
		Z	1.62	66.60	14.09		150.0	
10143- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	1.93	66.97	13.55	0.00	150.0	± 9.6 %
		Y	2.31	69.49	15.29	ļ	150.0	
		Z	2.06	67.05	14.07		150.0	
10144- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.68	64.38	11.67	0.00	150.0	± 9.6 %
		Υ	1.94	66.13	13.09		150.0	
		Z	1.85	64.82	12,42		150.0	
10145- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	0.61	60.00	6.25	0.00	150.0	± 9.6 %
		Y	0.75	61.41	7.98		150.0	
10146-	LTE-FDD (SC-FDMA, 100% RB, 1.4	X	0.75 0.82	60.75 60.00	7.63 5.83	0.00	150.0 150.0	± 9.6 %
CAF	MHz, 16-QAM)	1		00.07	0.05		450.0	<u> </u>
		Y	0.92	60.25	6.35		150.0	
4044**	LTC EDD (00 ED)(4 400) DD 44	Z	1.12	61.59	7.98	1 000	150.0	1000
10147- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	0.84	60.00	5.89	0.00	150.0	±9.6 %
		Υ	0.96	60.55	6.61	 	150.0	
		Z	1.20	62.21	8.43		150.0	

10149- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	2.58	66.69	15.22	0.00	150,0	± 9.6 %
		Υ	2.74	67.63	15.87		150.0	
		Z	2.65	66.49	15.18		150.0	
10150- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	2.71	66.82	15.33	0.00	150.0	±9.6 %
		Y	2.87	67.69	15.94		150.0	
		Z	2.78	66.58	15.28		150.0	
10151- CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	4.58	74.10	19.83	3.98	65.0	± 9.6 %
		Y	5.45	77.40	21.46		65.0	
		Z	5.00	75.19	20.56		65.0	
10152- CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	4.21	69.89	18.16	3.98	65.0	± 9.6 %
		Υ	4.65	71.84	19.30		65.0	
		Z	4.51	70.68	18.85		65.0	
10153- CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	4.55	71.06	19.09	3.98	65.0	± 9.6 %
		Υ	5.01	72.96	20.18		65.0	
		Ζ	4.85	71.76	19.74		65.0	
10154- CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	1.85	67.65	15.22	0.00	150.0	± 9.6 %
		Υ	2.10	69.48	16.44		150.0	
		Ζ	1.92	67.37	15.16		150.0	
10155- CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	2.27	67.61	15.14	0.00	150.0	± 9.6 %
		Υ	2.50	69.00	16.15		150.0	
		Z	2.33	67.17	15.15		150.0	
10156- CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	1.31	65.90	12.85	0.00	150.0	± 9.6 %
		Υ	1.64	68.88	14.94		150.0	
		Ζ	1.43	66.11	13.38		150.0	
10157- CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	1.43	63.96	10.91	0.00	150.0	± 9.6 %
		Y	1.74	66.31	12.74		150.0	
		Z	1.63	64.73	11.94		150.0	
10158- CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.42	67.89	15.35	0.00	150.0	± 9.6 %
		Υ	2.65	69.22	16.31		150.0	
		Z	2.48	67.46	15.37		150.0	<u> </u>
10159- CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	1.49	64.13	11.04	0.00	150.0	± 9.6 %
		Y	1.82	66.66	12.95		150.0	
		Z	1.70	65.00	12.13		150.0	
10160- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	2.41	67.89	15.65	0.00	150.0	± 9.6 %
		Υ	2.60	69.05	16.44		150.0	
4.6.7		Z	2.48	67.64	15.56		150.0	
10161- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.59	66.74	15.14	0.00	150.0	± 9.6 %
		Υ	2.76	67.68	15.82		150.0	
		Ζ	2.66	66.50	15.14		150.0	
10162- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	2.70	67.00	15.31	0.00	150.0	± 9.6 %
		Υ	2.87	67.91	15.97		150.0	
		Z	2.77	66.73	15.29		150.0	
10166- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	2.91	67.87	18.41	3.01	150.0	± 9.6 %
		Υ	3.09	68.81	18.75		150.0	
		Ζ	3.17	68.75	19.02		150.0	
			0.11	00110				
10167- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	3.24	69.92	18.52	3.01	150.0	± 9.6 %
						3.01		± 9.6 %

10168- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	3.66	72.66	20.22	3.01	150.0	± 9.6 %
		Υ	4.14	74.51	20.83		150.0	
		Z	4.11	73.91	20.95		150.0	
10169- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	2.32	65.83	17.44	3.01	150.0	± 9.6 %
		Υ	2.49	67.28	18.07		150.0	
		Z	2.46	66.70	18.14		150.0	
10170- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	2.74	70.01	19.35	3.01	150.0	± 9.6 %
		Y	3.21	72.95	20.48		150.0	
10171-	LTE-FDD (SC-FDMA, 1 RB, 20 MHz,	Z	3.00	71.51	20.32 16.58	3.01	150.0	1000
AAE	64-QAM)	Ŷ	2.31	66.53 68.93		3.01	150.0	± 9.6 %
		Z	2.50	67.67	17.60 17.42		150.0 150.0	
10172-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	2.90	74.23	22.35	6.02	65.0	± 9.6 %
CAF	QPSK)	Ŷ	3.68	79.90	24.98	0.02	65.0	19.0 %
		Z	3.06	80.19	25.56		65.0	
10173-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	3.91	78.79	25.56	6.02	65.0	± 9,6 %
CAF	16-QAM)	Y		89.50	26.38	0.02	65.0	T 2'O 40
		Z	6,85 6.70	89.50	26.38		65.0	
10174-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	2.90	73.28	19.67	6.02	65.0	± 9.6 %
CAF	64-QAM)	Y	5.51	84.77	24.11	0.02	65.0	1 9.0 %
		Z	4.93	82.66	24.11		65.0	
10175- CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.30	65.58	17.20	3.01	150.0	± 9.6 %
OAI	- Qi Oily	Y	2.47	67.02	17.83		150.0	
		Z	2.44	66.43	17.89		150.0	
10176- CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	2.74	70.03	19.36	3.01	150.0	± 9.6 %
0,11	- Co Sciency	Y	3.21	72.97	20.49		150.0	
		Z	3.00	71.53	20.33		150.0	
10177- CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.31	65.68	17.27	3.01	150.0	± 9.6 %
		Y	2.48	67.13	17.91		150.0	
		Z	2.45	66.56	17.98		150.0	
10178- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	2.73	69.91	19.28	3.01	150.0	± 9.6 %
		Υ	3.19	72.83	20.41		150.0	
		Z	2.98	71.36	20.23		150.0	
10179- CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	2.50	68.14	17.82	3.01	150.0	± 9.6 %
		Υ	2.89	70.84	18.91		150.0	
		Z	2.72	69.48	18.74		150.0	
10180- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.31	66.50	16.56	3.01	150.0	± 9.6 %
		Y	2.63	68.90	17.57		150.0	
40	1 TT CDD (00 TT)	Z	2.50	67.63	17.39		150.0	1000
10181- CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	2.31	65.67	17.27	3.01	150.0	± 9.6 %
		Y	2.48	67.11	17.90		150.0	
10182-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z X	2.45 2.73	66.54 69.88	17.97 19.27	3.01	150.0 150.0	± 9.6 %
CAE	16-QAM)	+	2.40	70.04	20.40		150.0	
~		Y	3.19	72.81	20.40	-	150.0	
10183-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z	2.98 2.31	71.34 66.48	20.21 16.55	3.01	150.0	± 9.6 %
AAD	64-QAM)			_1				
		Y	2.63	68.87	17.56	ļ	150.0	
		Z	2.49	67.61	17.37		150.0	1

10184- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.32	65.70	17.29	3.01	150.0	± 9.6 %
		Y	2.49	67.15	17.92	1	150.0	
·······		Z	2.46	66.58	17.99		150.0	
10185- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	2.74	69.95	19.31	3.01	150.0	± 9.6 %
		Υ	3.20	72.88	20.43		150.0	
		Z	2,99	71.41	20.26		150.0	
10186- AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	2.32	66.53	16.58	3.01	150.0	± 9.6 %
	~	Υ	2.64	68.94	17.60		150.0	
40407	1. T	Z	2.51	67.67	17.41		150.0	
10187- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	2.33	65.78	17.37	3.01	150.0	± 9.6 %
		Υ	2.50	67.22	18.00		150.0	
40400	LTE FOR (OG FORM) (FOR A SHIP)	Z	2.47	66.64	18.07		150.0	
10188- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	2.80	70.47	19.65	3.01	150.0	± 9.6 %
		Υ	3.29	73.46	20.79		150.0	
10100	LTE EDD (OC EDMA 4 ED	Z	3.07	72.01	20.64		150.0	
10189- AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	2.35	66.85	16.82	3.01	150.0	± 9.6 %
		Y	2.69	69.31	17.86		150.0	
10193-	1555 000 44 (1550	Z	2.55	68.03	17.68		150.0	
CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.23	66.54	15.90	0.00	150.0	± 9.6 %
		Y	4.33	66.90	16.14		150.0	
10194-	FEET 900 44- /UT O 5 11 00 NII	Z	4.32	66.32	15.87		150.0	
CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.36	66.75	16.04	0.00	150.0	± 9.6 %
		Υ	4.47	67.12	16.27		150.0	
40405		Z	4.47	66.58	16.01		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.39	66.76	16.05	0.00	150.0	± 9.6 %
		Υ	4.50	67.13	16.28		150.0	
40400	IEEE 000 (4 (UE)	Z	4.50	66.61	16.03		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	4.21	66.52	15.87	0.00	150.0	± 9.6 %
		Υ	4.32	66.89	16.12		150.0	
40407	JEEE 000 44 WEAR	Z	4.31	66.33	15.87		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	Х	4.37	66.75	16.04	0.00	150.0	± 9.6 %
	1	Y	4.48	67.12	16.28		150.0	
10100	JEET 900 44- (UTAP)	Z	4.48	66.59	16.02		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.38	66.75	16.05	0.00	150.0	± 9.6 %
		Y	4.50	67.13	16.28		150.0	
10219-	DEEE 900 440 /UTAN L TOOM	Z	4.50	66.62	16.04		150.0	
CAC CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	×	4.16	66.56	15.85	0.00	150.0	± 9.6 %
		Y	4.27	66.93	16.10		150.0	
10220	IEEE 900 44- (UT by 1 10 0 0)	Z	4.26	66.35	15.83		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	Х	4.36	66.72	16.03	0.00	150.0	± 9.6 %
······································		Υ	4.47	67.08	16.26		150.0	
10224	IEEE 000 44- (I)T M	Z	4.47	66.56	16.01		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.40	66.71	16.04	0.00	150.0	± 9.6 %
		Υ	4.51	67.07	16.27		150.0	
10000	IEEE 900 445 (UTAE - 1 45 A	Ζ	4.51	66.56	16.03		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Х	4.80	66.80	16.23	0.00	150.0	± 9.6 %
		Y	4.88	67.12	16.39		150.0	
		Ζ	4.89	66.72			100.0	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.04	66.95	16.32	0.00	150.0	± 9.6 %
		Y	5.14	67.29	16.49		150.0	
		Ż	5.18	66.99	16.36		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.84	66.92	16,22	0.00	150.0	± 9.6 %
		Υ	4.92	67.24	16.38		150.0	
		Z	4.93	66.82	16.18		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	2.46	65.56	14.20	0.00	150.0	± 9.6 %
		Y	2.62	66.44	14.96		150.0	
40000		Z	2.55	65.41	14.45		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	4.12	79.74	22.87	6.02	65.0	± 9.6 %
		Y	7.38	90.96	26.97		65.0	
10007	LTE TOD (CO FOMA 4 DD 4 4 MILE	Z	7.19	90.56	27.66	0.00	65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	4.10	78.95	21.90	6.02	65.0	± 9.6 %
		<u> Y</u>	7.43	89.71	25.78		65.0	
10000	LITE TOD (OC SOMA 4 DO 4 4 DO	Z	7.75	90.70	26.99		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.12	75.94	23.15	6.02	65.0	± 9.6 %
		Y	4.06	82.01	25.85		65.0	
40000	LTT TDD (OO EDIM (DD OAK)	Z	4.25	82.24	26.47		65.0	
10229- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.94	78,88	22.44	6.02	65.0	± 9.6 %
		<u> </u>	6.91	89.62	26.42		65.0	
10000	LITE TED (OO FEMA (DE O) III O	Z	6.76	89.24	27.11		65.0	
10230- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.89	78.03	21.47	6.02	65.0	± 9.6 %
		Y	6.86	88.27	25.23		65.0	
		Z	7.16	89.19	26.40		65.0	
10231- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.03	75.32	22.81	6.02	65.0	± 9.6 %
		Υ	3.92	81.25	25.48		65.0	
		Z	4.10	81.44	26.07		65.0	
10232- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.94	78.86	22.44	6.02	65.0	± 9.6 %
		Υ	6.89	89.60	26.42		65.0	
		Z	6.74	89.21	27,10		65.0	
10233- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.88	77.99	21.46	6.02	65.0	± 9.6 %
		Υ	6.83	88.22	25.21		65.0	
		Z	7.13	89.13	26.38		65.0	
10234- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.96	74.84	22.48	6.02	65.0	± 9.6 %
		Υ	3,82	80.66	25.12	ļ	65.0	
	1	Z	4.00	80.82	25.70		65.0	
10235- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.94	78.87	22.44	6.02	65.0	± 9.6 %
		Y	6.90	89.63	26.43		65.0	
		Z	6.75	89.23	27.11	ļ	65.0	
10236- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	3.92	78.11	21.50	6.02	65.0	± 9.6 %
		Υ	6.93	88.43	25.27		65.0	
10237-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	Z X	7.23 3.03	89.34 75.32	26.44 22.81	6.02	65.0 65.0	± 9.6 %
CAE	QPSK)	+.,	2.00	04.07	05.40		<u> </u>	
		Y	3.92	81.27	25,49		65.0	1
40000	LIE IDD/CC EDMA 4 DD 45 MU-	Z	4.10	81.45	26.08	0.00	65.0	1000
10238- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.93	78.83	22.43	6.02	65.0	± 9.6 %
		Υ	6.87	89.57	26.41		65.0	
		Z	6.72	89.17	27.08		65.0	

10239- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	3.87	77.95	21.45	6.02	65.0	± 9,6 %
		Υ	6.80	88.17	25.20		65.0	
		Z	7.10	89.08	26.37		65.0	
10240- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	3.02	75.30	22.81	6.02	65.0	± 9.6 %
		Υ	3.91	81.25	25.48		65.0	
		Z	4.09	81.42	26.07		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	5.47	76.60	23.52	6.98	65.0	± 9.6 %
		Υ	6.28	79.70	24.95		65.0	
		Ζ	6.08	77.98	24.56		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.17	75.55	22.99	6.98	65.0	± 9.6 %
~		Υ	5.96	78.71	24.47		65.0	
		Ζ	5.82	77.10	24.09		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.47	72.66	22.57	6.98	65.0	± 9.6 %
		Υ	4.85	74.66	23.64		65.0	
		Z	4.89	73.70	23.43		65.0	
10244- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	2.59	65.60	11.95	3.98	65.0	± 9.6 %
		Υ	3.16	68.30	13.59		65.0	
		Z	3.94	71.58	16.14		65.0	
10245- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	2.56	65.23	11.69	3.98	65.0	± 9,6 %
		Υ	3.08	67.71	13.25		65.0	
		Ζ	3.80	70.75	15.70		65.0	
10246- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	2.30	67.33	13.29	3.98	65.0	± 9.6 %
		Υ	3.40	73.14	16.55		65.0	
		Ζ	3.20	71.92	16.41		65.0	
10247- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2,93	67.28	14.07	3.98	65.0	± 9.6 %
		Υ	3.57	70.51	16.14	***************************************	65.0	***************************************
		Z	3.50	69.72	16.15	***************************************	65.0	
10248- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.93	66.83	13.84	3.98	65.0	± 9.6 %
		Υ	3.51	69.74	15.76		65.0	
		Z	3,49	69.17	15.87		65.0	
10249- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	3.40	72.89	17.31	3.98	65.0	± 9.6 %
		Υ	5.05	79.62	20.60		65.0	
		Ζ	4.35	76.73	19.72		65.0	
10250- CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	4.07	71.77	18.68	3.98	65.0	± 9.6 %
		Υ	4.65	74.35	20.17		65.0	
40054	LITE TOP (00 TO	Z	4,43	72.91	19.73		65.0	
10251- CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	3.86	69.66	17.25	3.98	65.0	± 9.6 %
		Υ	4.37	71.98	18.68		65.0	
40000		Z	4.24	70.85	18.35		65.0	
10252- CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	4.28	75.56	20.13	3.98	65.0	±9.6 %
		Y	5.50	80.28	22.41		65.0	
40050	LTE TOD (OO TO)	Z	4.84	77.34	21.32		65.0	
10253- CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	4.17	69.62	17.88	3,98	65.0	±9.6 %
		Y	4.59	71.50	19.03		65.0	
40054	LTE TER (00 =====	Z	4.46	70.34	18.61		65.0	
10254- CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	4.46	70.60	18.66	3.98	65.0	± 9.6 %
		Υ	4.90	72.45	19.77		65.0	
	5	Z	4.75	71.28	19.37		65,0	

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10255- CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	4.40	73.51	19.69	3.98	65.0	± 9.6 %
	1	Y	5.16	76.59	21.27		65.0	
		Ż	4.77	74.49	20.43		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	1.88	62.21	8.80	3.98	65.0	± 9.6 %
		Y	2.16	63.72	9.95		65.0	
		Z	2.68	66.18	12.27		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	1.87	61.92	8.53	3.98	65.0	± 9.6 %
		Υ	2.13	63.28	9.61		65.0	
		Z	2.60	65.47	11.78		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.63	62.98	9.76	3.98	65.0	± 9.6 %
***************************************		Y	2.11	66.24	12.11		65.0	
		Z	2.20	66.42	12.68		65.0	
10259- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	3.37	69.09	15.81	3.98	65.0	± 9.6 %
		Υ	4.03	72.21	17.73		65.0	
		Z	3.88	71.08	17.53		65.0	
10260- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	3.41	68.89	15.70	3.98	65.0	± 9.6 %
		Y	4.05	71.86	17.55		65.0	
4000'		Z	3.92	70.83	17.40		65.0	
10261- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	3.65	73.54	18.24	3.98	65.0	± 9.6 %
		Y	4.99	79.08	21.01		65.0	
10000		Z	4.36	76.25	20.08		65.0	
10262- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	4.05	71.68	18.62	3.98	65.0	± 9.6 %
		Υ	4.63	74.27	20.11		65.0	
		Z	4.42	72.84	19.67		65.0	
10263- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	3.85	69.65	17.25	3.98	65.0	± 9.6 %
		Y	4.36	71.96	18.67		65.0	
***************************************		Z	4.23	70.83	18.35		65.0	
10264- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	4.23	75.35	20.01	3.98	65.0	± 9.6 %
		Υ	5.43	80.04	22.29		65.0	
		Z	4.79	77.13	21.21		65.0	
10265- CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	4.21	69.90	18.16	3.98	65.0	± 9.6 %
		Υ	4.65	71.84	19.30		65.0	1
		Z	4.51	70.68	18.86		65.0	
10266- CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	4.55	71.05	19.08	3.98	65.0	± 9.6 %
		Υ	5.00	72.95	20.16		65.0	
		Z	4.85	71.75	19.72		65.0	
10267- CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	4.57	74.06	19.81	3.98	65.0	± 9.6 %
		Υ	5.43	77.35	21.43		65.0	
		Z	4.99	75.14	20.54		65.0	
10268- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	4.89	70.28	18.92	3.98	65.0	± 9.6 %
		Υ	5.29	71.90	19.82		65.0	
		Z	5.16	70.86	19.41	<u> </u>	65.0	1
10269- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	4.93	70.03	18.82	3.98	65.0	± 9.6 %
		Υ	5.31	71.54	19.69		65.0	
		Z	5.18	70.53	19.29		65.0	
10270- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	4.82	72.26	19.25	3.98	65.0	± 9.6 %
		Y	5.40	74.50	20.39		65.0	
		Z	5.12	72.93	19.74		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.30	66.08	14.21	0.00	150.0	± 9.6 %
		Y	2.48	67,13	15.07		150.0	
		Z	2.37	65.78	14.35		150.0	<u> </u>
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.33	66.42	14.09	0.00	150.0	± 9.6 %
		Υ	1.55	68.66	15.67		150.0	
		Z	1.35	65.99	13.99		150.0	
10277- CAA	PHS (QPSK)	X	1.44	58.96	4.35	9.03	50.0	± 9.6 %
		Υ	1.29	58.94	4.16		50.0	
40070		Z	1.60	59.77	5.29		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	2.42	63.55	9.32	9.03	50.0	± 9.6 %
		Υ	2.50	65.00	10.23		50.0	
40070	PUO (ODOK DIM OO MILL D. II. KO OO)	Z	3.00	66.61	11.73		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	×	2.47	63.72	9.48	9.03	50.0	± 9.6 %
		Υ	2.58	65.28	10.45		50.0	
10000	CDMA2000 BOX COSE 5 25	Z	3.09	66.89	11.94		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	0.64	61.56	7.87	0.00	150.0	± 9.6 %
		Y	0.98	65.79	11.09		150.0	
10291-	CDM40000 DOS COSE E II D 4	Z	0.84	63.19	9.57		150.0	
AAB	CDMA2000, RC3, SO55, Full Rate	X	0.41	60.33	6.79	0.00	150.0	± 9.6 %
		Y	0.62	64.18	10.12		150.0	
10292-	CDM42000 DC2 CO20 F. # D-4	Z	0.50	61.40	8.20		150.0	
AAB	CDMA2000, RC3, SO32, Full Rate	Х	0.46	61.89	7.99	0.00	150.0	± 9.6 %
		Υ	1.01	70.37	13.40		150.0	
40000		Z	0.57	63.19	9.51		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	0.64	65.03	10.07	0.00	150.0	± 9.6 %
		Υ	4.97	89.66	20.54		150.0	
40000	CDM40000 DQ4 CQ0 WOW	Ζ	0.76	66.38	11.57		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	14.73	88.54	22.30	9.03	50.0	± 9.6 %
		Υ	21.95	97.75	26.07		50.0	
40007		Z	14.97	91.80	24.79		50.0	
10297- AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.34	68.34	15.82	0.00	150.0	±9.6 %
		<u> </u>	2.58	69.89	16.76		150.0	
10298-	LTC CDD (OO CDAM, COO) CDD O MI		2.40	68.08	15.64		150.0	
AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	0.86	62.29	9.16	0.00	150.0	± 9.6 %
·		Y	1.16	65.45	11.69		150.0	
10299-	LITE EDD (SO EDMA FOX DD CAN)	Z	1.05	63.56	10.60		150.0	
AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	1.14	61.76	8.21	0.00	150.0	± 9.6 %
		Y	1.41	63.51	9.50		150.0	
10200	LTE EDD (CO EDMA 500/ DD 0.55)	Z	1.73	65.72	11.49		150.0	
10300- AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	0.97	60.07	6.55	0.00	150.0	±9.6 %
	 	Y	1.14	61.11	7.49		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Z X	1.33 4.13	62.21 64.55	8.89 16.56	4.17	150.0 50.0	± 9.6 %
· · · · · · · · · · · · · · · · ·	75	Y	4.26	65.00	16.07		E0.0	
		Z	4.20	64.86	16.97	·	50.0	
10302-	IEEE 802.16e WIMAX (29:18, 5ms,	X	4.66	65.38	16.90	4.00	50.0	1000
AAA	10MHz, QPSK, PUSC, 3 CTRL symbols)			-	17.39	4.96	50.0	± 9.6 %
		Y	4.76	65.70	17.72		50.0	
		Ζ	4.88	65.46	17.59		50.0	

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10303-	IEEE 802.16e WiMAX (31:15, 5ms,	T V T	A AE	65.06	47.40	4.00	E0.0	1000
AAA	10MHz, 64QAM, PUSC)	^	4.45	05.30	17.40	4.96	50.0	± 9.6 %
		Υ	4.51	65.30	17.48		50.0	
		Z	4.62	65.06	17.37		50.0	
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Y 4.51 65.30 17.48 50.0	±9.6 %					
							50.0	
					16.90		50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)					6.02		± 9.6 %
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)					6.02		± 9.6 %
////	TOWITZ, 04QAM, POSC, 16 Symbols)		A 17	65.55	18 11		35.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)					6.02		± 9.6 %
		Y	4.04	65.48	17.96		35.0	
			4.27	65.96			35.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)		4.03			6.02		± 9.6 %
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)					6.02		± 9.6 %
40040	IEEE 000 40- MEMAY (00-40, 40					0.00		. 0 0 0/
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)					6.02		± 9.6 %
10311- AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)					0.00		± 9.6 %
יייי	WHIZ, GESK)	T V	2 94	69.08	16 30		150.0	
10313- AAA	IDEN 1:3					6.99		± 9.6 %
		Υ	2.78	73.35	16.36		70.0	
		Z		69.09	14.51		70.0	
10314- AAA	IDEN 1:6	X	3.26			10.00		± 9.6 %
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				***************************************	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)					0.17		± 9.6 %
, 1/1/0	Midpo, dopo daty dyole)							
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X				0.17		± 9.6 %
	= 1 = m, o mopo, copo dad, o joio)	İΥ	4.35	66.80	16.22		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	Х	4.24	66.42	15.96	0.17	150.0	± 9.6 %
		Υ	4.35	66.80	16.22		150.0	
10400-	IEEE 802.11ac WiFi (20MHz, 64-QAM,	Z X	4.36 4.31	66.32 66.71	16.01 15.99	0.00	150.0 150.0	± 9.6 %
AAD	99pc duty cycle)	Y	A 40	67.44	16.04		150.0	
		Z	4.43 4.43	67.11 66.60	16.24 15.99		150.0 150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	4.98	66.52	16.05	0.00	150.0	±9.6 %
	5500 440, 03010)	Y	5.08	66.87	16.24	1	150.0	
		Z	5.16	66.70	16.18	<b> </b>	150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.36	67.14	16.28	0.00	150.0	± 9.6 %
		Υ	5.44	67.45	16.42		150.0	
		Z	5.45	67.07	16.25		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	0.64	61.56	7.87	0.00	115.0	± 9.6 %
		Υ	0.98	65.79	11.09		115.0	
		Z	0.84	63.19	9.57		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	0.64	61.56	7.87	0.00	115.0	± 9.6 %
		Υ	0.98	65.79	11.09		115.0	
40400	0001110000 500 0000 0010 5 11	Z	0.84	63.19	9.57		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Х	100.00	119.53	28.08	0.00	100.0	± 9.6 %
		Y	100.00	115.68	26.57		100.0	
10410-	LTC TDD (SC EDMA 4 DD 40 ML)	Z	100.00	126.19	31.47		100.0	
AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	2.86	79.80	18.70	3,23	80.0	± 9.6 %
		Y	25.09	107.33	26,44		80.0	
10		Z	100.00	133.23	34.42		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	0.92	62.32	13.80	0.00	150.0	± 9.6 %
		Υ	1.00	63.42	14.80		150.0	
40440		Z	0.91	61.96	13.60		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.22	66.50	15.96	0.00	150.0	± 9.6 %
		Υ	4.32	66.87	16.21		150.0	
40447		Z	4.32	66.33	15.95		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.22	66.50	15.96	0.00	150.0	± 9.6 %
		Υ	4.32	66.87	16.21		150.0	
10418-		Z	4.32	66.33	15.95		150.0	· · · · · · · · · · · · · · · · · · ·
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.21	66.71	16.02	0.00	150.0	± 9.6 %
		Υ	4.32	67.09	16.27		150.0	
		Z	4.31	66.51	15.99		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.23	66.64	16.01	0.00	150.0	± 9.6 %
		Υ	4.34	67.01	16.25		150.0	
		Z	4.33	66.45	15.98	· · · · · · · · · · · · · · · · · · ·	150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.33	66.62	16.03	0.00	150.0	± 9.6 %
		Υ	4.44	66.98	16.26		150.0	
40400	LEEE 000 44. 200 0	Z	4.44	66.45	16.00		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	4.45	66.86	16.11	0.00	150.0	± 9.6 %
		Y	4.56	67.23	16.34		150.0	
10424-	JEEE 900 145 /UT 0 5-11 70 0	Z	4.57	66.72	16.10		150.0	
AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.38	66.81	16.08	0.00	150.0	± 9.6 %
		Y	4.50	67.18	16.32		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Z X	4.50 5.03	66.66 67.03	16.07 16.34	0.00	150.0 150.0	± 9.6 %
	1	Y	5.11	67.32	16.49		150.0	
		Z	5.14	66.98	16.33		150.0	
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	X	5.06	67.16	16.40	0.00	150.0 150.0	+060/
AAB	16-QAM)	Ŷ	5.13			0.00		± 9.6 %
		Z	5.13	67.40	16.52		150.0	
	1		0.17	67.10	16.39		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.01	66.91	16.27	0.00	150.0	± 9.6 %
		Υ	5.09	67.19	16.41		150.0	
		Z	5.13	66.90	16.28		150.0	
10430- AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.07	72.07	17.91	0.00	150.0	± 9.6 %
		Y	4,24	72.56	18.40		150.0	
		Z	4.04	71.02	17.78		150.0	
10431- AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	3.79	66.99	15.69	0.00	150.0	± 9.6 %
		Υ	3.94	67.49	16.09		150.0	
10100		Z	3.92	66.79	15.76		150.0	
10432- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.13	66.89	15.96	0.00	150.0	± 9.6 %
		Y	4.26	67.30	16.25		150.0	
40400	LTE EDE (OFFILM COLD)	Z	4.25	66.71	15.96		150.0	
10433- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.40	66.85	16.11	0.00	150.0	± 9.6 %
		Y	4.51	67.22	16.34		150.0	
10101	W ODMA (DO T	Z	4.51	66.70	16.09		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.05	72.38	17.35	0.00	150.0	± 9.6 %
		Y	4.37	73.48	18.19		150.0	
40405	LITE TOP (OC TENAL )	Z	4.07	71.60	17.46		150.0	
10435- AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.72	79.05	18.38	3.23	80.0	± 9.6 %
		Y	21.44	105.07	25.81		80.0	
40447	1.75.500.4050444.5444.5	Z	100.00	132.91	34.27		80.0	
10447- AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	2.96	66.34	14.12	0.00	150.0	± 9.6 %
		Υ	3.18	67.31	14.92		150.0	
		Z	3.13	66.39	14.53		150.0	
10448- AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.67	66.79	15.57	0.00	150.0	± 9.6 %
		Υ	3.81	67.30	15.97		150.0	
		Z	3.78	66.58	15.62		150.0	
10449- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	3.98	66.71	15.86	0.00	150.0	± 9.6 %
		Υ	4.10	67.14	16.16		150.0	
		Z	4.09	66.52	15.85		150.0	
10450- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.21	66,62	15.96	0.00	150.0	± 9.6 %
		Υ	4.32	67.01	16.21		150.0	
		Z	4.30	66,46	15.93		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	2.70	65.75	13.11	0.00	150.0	± 9.6 %
		Υ	2.96	67.00	14.12		150.0	
		Z	2.94	66.14	13.79		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	5.99	67.61	16.55	0.00	150.0	± 9.6 %
		Υ	6.02	67.80	16.61		150.0	
		Z	6.11	67.72	16.61		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	Х	3.61	65.32	15.70	0.00	150.0	± 9.6 %
		Υ	3.69	65.64	15.94		150.0	ļ
10.15-		Z	3.65	65.04	15.66		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.19	69.07	15.08	0.00	150,0	± 9.6 %
		Υ	3.69	71.30	16.62		150.0	
10.155		Z	3.53	69.92	16.16		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	×	4.69	69.03	17.48	0.00	150.0	± 9.6 %
		Υ	4.79	69.11	17.75		150.0	
		Z	4.84	68.73	17.83		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	X	0.72	66.02	14.12	0.00	150.0	± 9.6 %
		Υ	0.91	69.57	16.66		150.0	
		Z	0.71	65.26	13.72		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.93	75.92	18.31	3.29	80.0	±9.6%
		Υ	6.83	93.43	24.06		80,0	
		Z	100.00	137.66	36.58		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.63	60.00	7.27	3.23	80.0	± 9.6 %
·		Υ	0.63	60.00	7.19		80.0	
10.00		Z	1.15	65.31	10.99		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.65	60.00	6.55	3.23	80.0	± 9.6 %
***************************************		Y	0.66	60.00	6.45		80.0	
40404	LTE TOD (OG FDM) 4 DD G MIL	Z	0.67	60.00	7.76		80.0	
10464- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.38	71.32	15.83	3.23	80.0	± 9.6 %
		Y	4.54	86.66	21.20		80.0	
10465	LTC TDD (CO CDAMA 4 DD CAMA 4	Z	100.00	134.26	34.80		80.0	
10465- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.63	60.00	7.20	3.23	80.0	± 9.6 %
		Y	0.63	60.00	7.11		80.0	
40400	LTE TOD (OC TOM 4 DD CAM)	Z	0.94	63.37	10.05		80.0	
10466- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.65	60.00	6.50	3.23	80.0	±9.6 %
		Y	0.66	60.00	6.41		80.0	
10467-	LTE TOD (CC CDMA 4 DD 5 MH-	Z	0.68	60.00	7.70		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.47	72.19	16.22	3.23	80.0	± 9.6 %
		Υ	5.30	88.83	21.91		80.0	
10.155	LITE TOD (OO FDIAL LOD SINGLE)	Z	100.00	134.76	35.02		80.0	
10468- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.63	60.00	7.22	3.23	80.0	± 9.6 %
		Υ	0.63	60.00	7.14		80.0	
40400	LTE TOD (OO FOLM) 4 DD FAMIL OF	Z	0.99	63.90	10.32		80.0	
10469- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	6.51	3.23	80.0	± 9.6 %
		Υ	0.66	60.00	6.41		80.0	
40.470	LTE TRR (OR ERM)	Z	0.68	60.00	7.70		80.0	
10470- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.46	72.21	16.22	3.23	80.0	± 9.6 %
		Υ	5.35	88.98	21.94		80.0	
10471-	LTE TDD (OC EDMA 4 DD 40 ML) 40	Z	100.00	134.82	35.03		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.63	60.00	7.21	3.23	80.0	± 9.6 %
		Υ	0.63	60.00	7.12		80.0	
10472-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-	Z	0.98	63.79	10.26		80.0	
AAD	QAM, UL Subframe=2,3,4,7,8,9)		0.65	60.00	6.49	3,23	80.0	± 9.6 %
		Y	0.66	60.00	6.39		80.0	
10473-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	Z	0.67	60.00	7.68		80.0	
AAD	QPSK, UL Subframe=2,3,4,7,8,9)	X	1.46	72.15	16.20	3.23	80.0	± 9.6 %
		Y	5.31	88.87	21.90		80.0	
10474- AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Z X	100.00 0.63	134.77 60.00	35.01 7.20	3.23	80.0 80.0	± 9.6 %
· • • •	= 101, 02 000Hame=2,0,4,1,0,5)	Υ	0.63	60.00	7 40		00.0	····
		Z	0.63	63.74	7.12	· · · · · · · · · · · · · · · · · · ·	80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	X	0.65	60.00	10.23	2 22	80.0	1.0.0.0
AAD	QAM, UL Subframe=2,3,4,7,8,9)				6.49	3.23	80.0	± 9.6 %
		Y	0.66	60.00	6.39		80.0	
		Ζ	0.67	60.00	7.69		80.0	

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10477- AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.63	60.00	7.17	3.23	80.0	± 9.6 %
//\L	QAIVI, OL OUDITAINS-2,0,4,7,0,9)	Y	0.63	60.00	7.08		80.0	
		ż	0.93	63.31	10.01		80.0	
10478- AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	6.47	3.23	80.0	± 9.6 %
		Υ	0.66	60.00	6.37	***************************************	80.0	
		Z	0.67	60,00	7.67		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.26	80.69	20.19	3.23	80.0	± 9.6 %
		Υ	7.01	87.70	22.71		80.0	
		Z	21.27	105.57	28.88		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.88	66.39	12,32	3.23	80.0	± 9.6 %
		Y	3.13	71.95	14.74		80.0	
40404	1.TE TDD (00 ED) (0.00 ED) (1.4.4.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Z	13.52	90.52	21.87	0.00	80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.43	63.16	10.40	3.23	80.0	± 9.6 %
		Υ	2.06	66.80	12.23		80.0	
40400	LITE TOD (CO EDMA 500) SD CAN	Z	6.11	79.62	18.02		80.0	1.000
10482- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.06	61.11	9.78	2.23	80.0	± 9.6 %
		Y	1.73	66.89	13.39		80.0	
40400	LTT TDD (OO EDIM COOK DD OAK)	Z	1.53	64.78	12.61	0.00	80.0	
10483- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.23	60.00	8.50	2.23	80.0	± 9.6 %
		Y	1.57	62.45	10.22		80.0	
40404	LTE TOD (CO FOLM FOR DD O MIL	Z	2.78	68.98	14.19	0.00	80.0	1000
10484- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.26	60.00	8.49	2.23	80.0	± 9.6 %
		Υ	1.54	61.98	9.97		80.0	
/n /n=		Z	2.53	67.57	13.58		80.0	
10485- AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.66	65.74	13.74	2.23	80.0	± 9.6 %
		Υ	2.52	71.78	17.06		80.0	
		Z	2.10	68.47	15.70		80.0	
10486- AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	1.66	62.56	11.27	2.23	80.0	± 9.6 %
		Y	2.26	66.58	13.85		80.0	
4040=		Z	2.12	65.12	13.38		80.0	
10487- AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.67	62.33	11.12	2.23	80.0	± 9.6 %
		Y	2.24	66.10	13.59		80.0	
40400	LITE TOP (OO FOLIA FOO) DD 40 MIL	Z	2.14	64.83	13.21	0.00	80.0	
10488- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.26	67.65	16.13	2.23	80.0	± 9.6 %
***************************************		Y	2.82	71.24	18.12		80.0	
40400	LTE TOD (CO EDMA EOV DD 40 MI)	Z	2.57	69.00	17.08	0.00	80.0	+06%
10489- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	***************************************	2.49	65.85	15.07	2.23	80.0	± 9.6 %
		Y	2.90	68.21	16.54	<b> </b>	80.0	
40400	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Z	2.74	66.70 65.79	15.91	2 22	80.0	± 9.6 %
10490- AAD	64-QAM, UL Subframe=2,3,4,7,8,9)		2.57		15.03	2.23	80.0	£ 9,0 %
	<u> </u>	Y	2.97	68.04	16.46	<del> </del>	80.0	-
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	2.83 2.64	66.63 67.24	15.88 16.30	2.23	80.0 80.0	± 9.6 %
AAD	QPSK, UL Subframe=2,3,4,7,8,9)	Y	3.09	69.79	17.74	-	80.0	
		Z	2.92	68.21	16.96		80.0	-
10492-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	<del>  _</del>	2.92	65.80	15.66	2.23	80.0	± 9.6 %
10492- AAD	16-QAM, UL Subframe=2,3,4,7,8,9)					2.23		2 3.0 70
		Y	3.24	67.45	16.69	-	80.0	
		j Z	3.14	66.35	16.22	1	80.0	<u> </u>

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	T V	2.00	00.74	45.00	T 0.00	T 000	1
AAD	64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.99	65.74	15.62	2.23	80.0	± 9.6 %
	2,0,1,7,0,0)	Υ	3.29	67.32	16.63		80.0	
		Z	3,21	66.28	16.18		80.0	
10494- AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.77	68.16	16.65	2.23	80.0	± 9.6 %
		Υ	3.31	71.10	18.21	<u> </u>	80.0	
		Z	3.09	69.31	17.33		80.0	
10495- AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.95	66.01	15.89	2.23	80.0	± 9.6 %
···		Υ	3.25	67.67	16.91		80.0	
40400		Z	3.16	66.59	16.41		80.0	
10496- AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.04	65.92	15.89	2.23	80.0	± 9.6 %
******		Υ	3.34	67.48	16.84		80.0	
40407	LTE TOP (OG FRAM (OG) TO	Z	3.25	66.45	16.38		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.90	60.00	7.56	2.23	80.0	± 9.6 %
		Y	0.94	60.22	8.59		80.0	
10400	LTE TOD (DO FDMA 4000) DO 4 :	Z	0.98	60.00	8.77		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.09	60.00	6.33	2.23	80.0	± 9.6 %
		Υ	1.09	60.00	7.12		80.0	
40.400		Z	1.16	60.00	7.58		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.11	60.00	6.17	2.23	80.0	±9.6 %
		Υ	1.11	60.00	6.94		80.0	
		Z	1.17	60.00	7.42		80.0	
10500- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.91	66,68	14.78	2.23	80.0	±9.6%
		Υ	2.64	71.54	17.49		80.0	
40504		Ζ	2.29	68.68	16.26		80.0	
10501- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.02	64.23	12.91	2.23	80.0	± 9.6 %
		Y	2.60	67.75	15.11		80.0	
40500	LTE TOP (OC EDIAL 1999) DE COMP	Ζ	2.42	66.09	14.51		80.0	
10502- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.05	64.07	12.75	2.23	80.0	±9.6 %
		Y	2.63	67.51	14.92		80.0	
10502	LTE TOP (SO FINAL ASSOCIATION	Ζ	2.46	65.95	14.37		80.0	
10503- AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.23	67.47	16.03	2.23	80.0	± 9.6 %
		Y	2.79	71.03	18.01		80.0	
10504-	LITE TOD (SC EDMA 1000) DD EMIL	Ζ	2.54	68.82	16.98		80.0	
AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.48	65.75	15.00	2.23	80.0	± 9.6 %
		Y	2.88	68.10	16.48		80.0	
10505-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z X	2.73	66.60	15.85		80.0	
AAD	64-QAM, UL Subframe=2,3,4,7,8,9)		2.55	65.70	14.97	2.23	80.0	± 9.6 %
		Y	2.95	67.94	16.40		80.0	
10506-	LTE-TDD (SC-FDMA, 100% RB, 10	Z	2.81	66.54	15.82		80.0	
AAD	MHz, QPSK, UL Subframe=2,3,4,7,8,9)		2.76	68.04	16.58	2.23	80.0	± 9.6 %
		Y	3.29	70.96	18.14		80.0	
10507-	LTE-TDD (SC-FDMA, 100% RB, 10	Z	3.07	69.18	17.26		80.0	
10507- \AD	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.93	65.95	15.85	2.23	80.0	± 9.6 %
	<u> </u>							
	Sacratile 2,0,4,1,0,0)	Y	3.24	67.61	16.87		80.0	

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10508- AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.03	65.86	15.84	2.23	80.0	± 9.6 %
		Υ	3.33	67.40	16.79		80.0	
		Z	3.24	66.38	16.33		0.08	
10509- AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.24	67.72	16.53	2.23	80.0	± 9.6 %
		Υ	3.69	69.96	17.72		80.0	
		Z	3.51	68.56	17.03		80.0	
10510- AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.43	65.97	16.12	2.23	80,0	± 9.6 %
		Υ	3.71	67.32	16.91		80.0	
		Z	3.64	66.47	16.52		80.0	
10511- AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.52	65.89	16.12	2.23	80.0	± 9.6 %
		Y	3.78	67.15	16.86		80.0	
		Ζ	3.71	66.32	16.49		80.0	
10512- AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.22	68.47	16.72	2.23	80.0	± 9.6 %
		Y	3.79	71.22	18.12		80.0	
105/-		Z	3.54	69.57	17.32		80.0	
10513- AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.32	66.00	16.15	2.23	80.0	± 9.6 %
		Υ	3.60	67.43	16.98		80.0	
		Z	3.52	66.56	16.56		80.0	
10514- AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.39	65.79	16.10	2.23	80.0	± 9.6 %
		Y	3.64	67.11	16.88		80.0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Z	3.57	66.28	16.49		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	0.88	62.44	13.81	0.00	150.0	± 9.6 %
		Υ	0.96	63.62	14.88		150.0	
		Z	0.87	62.07	13.59		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.45	66.98	14.48	0.00	150.0	± 9.6 %
***************************************		Y	0.65	72.72	18.47		150.0	
40547	IEEE 000 44h WIELO 4 OH- (D000 44	Z	0.42	65.95	13.66	0.00	150.0	1000
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.70	63.68	13.97	0.00	150.0 150.0	± 9.6 %
		Z	0.81 0.69	65.65 63.23	15.62 13.65	ļ	150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.21	66.61	15.96	0.00	150.0	± 9.6 %
		Y	4.32	66.98	16.20		150.0	
, ,		Z	4.31	66.42	15.93		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.34	66.77	16.04	0.00	150.0	± 9.6 %
,,,,,		Y	4.46	67.14	16.28		150.0	
40000	JEEE 000 44 # WEST COLL (OFFICE)	Z	4.46	66.61	16.03	<u> </u>	150.0	1000
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.20	66.68	15.95	0.00	150.0	± 9.6 %
		Z	4.32 4.31	67.07 66.53	16.20 15.94	-	150.0 150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.13	66.63	15.92	0.00	150.0	± 9.6 %
······································		Υ	4.25	67.04	16.18		150.0	
		Z	4.24	66.49	15.91		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.17	66.72	15.99	0.00	150.0	± 9.6 %
		Υ	4.29	67.14	16.26		150.0	
		Z	4.30	66.63	16.02		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.12	66.80	15.96	0.00	150.0	± 9.6 %
		Y	4.24	67.19	16.22	1	150.0	
		Ż	4.21	66.57	15.90	<del></del>	150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.13	66.73	16.01	0.00	150.0	± 9.6 %
		Υ	4.25	67.13	16.27		150.0	
*******		Z	4.25	66.57	15.99		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.18	65.86	15.65	0.00	150.0	± 9.6 %
		Y	4.29	66.26	15.91		150.0	
40500	IEEE 000 44 PREI (00M)	Z	4.27	65.65	15.61		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.28	66.10	15.76	0.00	150.0	± 9.6 %
		Y	4.41	66.52	16.01		150.0	
10507	IFFE 000 44 INIFI (OONUL MOOO	Z	4.40	65.94	15.73		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.22	66.07	15.69	0.00	150.0	± 9.6 %
		Y	4.34	66.49	15.96		150.0	
10528-	IEEE BOO 44 on IMIE: (00) 41 - NOCC	Z	4.33	65.90	15.66		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.23	66.08	15.73	0.00	150.0	± 9.6 %
		Y	4.36	66.51	15.99		150.0	
10529-	JEEE 900 44e- WEEL (0044) - \$4004	Z	4.34	65.91	15.70		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.23	66.08	15.73	0.00	150.0	± 9.6 %
		Υ	4.36	66.51	15.99		150.0	
10531-	ITEE 000 44 WEE (OOM) - MOOO	Z	4.34	65.91	15.70		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.19	66.07	15.68	0.00	150.0	± 9.6 %
		Υ	4.32	66.52	15.96		150.0	
		Z	4.31	65.94	15.68		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	Х	4.08	65.93	15.61	0.00	150.0	± 9.6 %
		Υ	4.20	66.39	15.90		150.0	
		Ζ	4.19	65.79	15.60		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.23	66.16	15.73	0.00	150.0	±9.6 %
		Υ	4.36	66.60	16.00		150.0	
		Z	4.35	65.98	15.69		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.82	66.10	15.85	0.00	150.0	± 9.6 %
		Υ	4.91	66.46	16.04		150.0	
40505	IFFE 200 LL NATIONAL DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE	Z	4.91	66.02	15.83		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	4.85	66.20	15.91	0.00	150.0	± 9.6 %
		Υ	4.94	66.56	16.09		150.0	
10536-	IEEE 900 44a- MIEI (4041) - 1400-	Z	4.97	66.17	15.90		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	4.74	66.19	15.87	0.00	150.0	± 9.6 %
		Y	4.84	66.58	16.08		150.0	
10537-	IEEE 002 445 - 1407 / 403 / 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z	4.85	66.14	15.86		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.82	66.26	15.91	0.00	150.0	± 9.6 %
		Y	4.91	66.59	16.08	**	150.0	
10538-	IEEE 902 11nc Wiff: (40) #1 1400 f	Z	4.91	66.13	15.86		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	4.87	66.17	15.91	0.00	150,0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	4.97	66.52	16.09		150.0	
10510	IEEE OOD 44	Z	4.98	66.12	15.90		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	Х	4.80	66.12	15.90	0.00	150.0	± 9.6 %
		Υ	4.90	66.49	16.09		150.0	
		Ζ	4.91	66.07	15.89		150.0	

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10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	Х	4.79	66.06	15.85	0.00	150.0	± 9.6 %
	oopo daty cyclor	Υ	4.89	66.43	16.04		150.0	
		Ż	4.89	65.96	15.82		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	4.94	66.17	15.92	0.00	150.0	± 9.6 %
		Y	5.04	66.51	16.10		150.0	
		Z	5.05	66.09	15.90		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.03	66.31	16.03	0.00	150.0	± 9.6 %
:		Y	5.11	66.60	16.17		150.0	
		Z	5.12	66.17	15.97		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.18	66.16	15.86	0.00	150.0	±9.6%
		Υ	5.26	66.52	16.02		150.0	
		Z	5,26	66.12	15.84		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.36	66.65	16.06	0.00	150.0	± 9.6 %
		Y	5.42	66.93	16.19		150.0	
40540	IEEE 000 44-, MEE (OOM III AAOOO	Z	5.45	66.61	16.04	0.00	150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.20	66.27	15.88	0.00	150.0	±9.6%
		Y	5.29	66,63	16.05		150.0	
40547	JEEE 000 44 - MEEL (00 HILL MOCO	Z	5.29	66.25	15.87	0.00	150.0	1000
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.31	66.50	15.99	0.00	150.0	± 9.6 %
		Y	5.37	66.75	16.11		150.0	
		Z	5.38	66.37	15.93		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	Х	5.41	66.98	16.21	0.00	150.0	± 9.6 %
		Υ	5.49	67.30	16.36		150.0	
		Z	5.57	67.13	16.28		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	5.30	66.60	16.06	0.00	150.0	± 9.6 %
		Y	5.35	66.83	16.16		150.0	
		Z	5.37	66.46	15,99		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	Х	5.19	66.21	15.83	0.00	150.0	± 9.6 %
		Υ	5.28	66.60	16.01	ļ	150.0	
		Z	5.30	66.24	15.84		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.18	66.29	15.86	0.00	150.0	± 9.6 %
		Υ	5.27	66.65	16.04		150.0	
		Z	5.26	66.20	15.82		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.23	66.22	15.86	0.00	150.0	± 9.6 %
		Y	5.32	66.58	16.03	ļ	150.0	
		Z	5.32	66.18	15.85		150.0	. 0 0 0′
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.62	66.51	15.95	0.00	150.0	± 9.6 %
		Y	5.68	66.84	16.09		150.0	
		Z	5.69	66.48	15.94	ļ <u> </u>	150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	5.69	66.71	16.04	0.00	150.0	±9.6%
		Y	5.76	67.04	16.18	ļ	150.0	
105	LEEE COO 44 VIIII (1951)	Z	5.79	66.75	16.05	0.00	150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.75	66.88	16.11	0.00	150.0	± 9.6 %
		Y	5.80	67.16	16.23		150.0	
		Z	5.83	66.85	16.10		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.69	66.70	16.04	0.00	150.0	±9.6%
		Υ	5.76	67.04	16.19		150.0	
		Z.	5.77	66.69	16.03		150.0	<u> </u>

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.67	66.68	16.05	0.00	150.0	± 9.6 %
		Υ	5.76	67.07	16.22		150.0	
	Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Value Va	Ż	5.80	66.79	16.10		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.71	66.66	16.07	0.00	150.0	± 9.6 %
		Υ	5.79	67.02	16.23		150.0	
		Z	5.81	66.69	16.09		150.0	1
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	5.65	66.65	16.10	0.00	150.0	± 9.6 %
		Υ	5.72	67.00	16.25		150.0	
		Z	5.75	66.69	16.12		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	5.68	66.77	16.16	0.00	150.0	± 9.6 %
		Υ	5.77	67.15	16.33		150.0	1
		Z	5.80	66,87	16.21		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	5.80	66.82	16.15	0.00	150.0	± 9.6 %
***		Y	5.88	67.15	16.29		150.0	
		Z	5.91	66.85	16.17		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	4.52	66.62	16.09	0.46	150.0	± 9.6 %
		Υ	4.63	66.97	16.32		150.0	· · · · · · · · · · · · · · · · · · ·
		Z	4.63	66.48	16.09		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	4.71	67.05	16.42	0.46	150.0	±9.6 %
		Υ	4.82	67.38	16.63		150.0	
		Z	4.83	66.91	16.42		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.54	66.82	16.20	0.46	150.0	± 9.6 %
		Υ	4.65	67.19	16.43		150.0	
		Ζ	4.66	66.71	16.22		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	4.58	67.25	16.61	0.46	150.0	± 9.6 %
·		Υ	4.69	67.60	16.82		150.0	
		Z	4.69	67.12	16.60		150.0	·····
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.42	66.46	15.88	0.46	150.0	± 9.6 %
		Υ	4.54	66.88	16.15		150.0	
		Z	4.56	66.45	15.95		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.58	67.53	16.78	0.46	150.0	± 9.6 %
		Υ	4.68	67.86	16.97		150.0	
		Z	4.68	67.31	16.72		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	4.57	67.27	16.64	0.46	150.0	± 9.6 %
		Υ	4.68	67.61	16.85		150.0	
405**		Z	4.69	67.12	16.62		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	0.99	62.81	14.23	0.46	130.0	± 9.6 %
		Y	1.09	64.12	15.35		130.0	
		Z	1.00	62.69	14.25		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.00	63.25	14.53	0.46	130.0	± 9.6 %
		Υ	1.10	64.66	15.71		130.0	
40550		Z	1.00	63.12	14.54		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	0.77	71.94	17.18	0.46	130.0	± 9.6 %
		Y	1.53	83.79	23.08		130.0	
	***************************************	Z	0.78	71.84	17.05		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	0.97	67.27	16.73	0.46	130.0	± 9.6 %
AAA	Mbps, 90pc duty cycle)						į į	'
AAA	Mbps, 90pc duty cycle)	Y	1.16	70.12	18.67		130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	1	4.29	Leens	40.00	0.40	1000	1000
AAA	OFDM, 6 Mbps, 90pc duty cycle)	Х	4.29	66.33	16.06	0.46	130.0	±9.6 %
		Y	4.40	66.70	16.31		130.0	
		Z	4.41	66.24	16.12		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.32	66.56	16.16	0.46	130.0	± 9.6 %
		Υ	4.43	66.92	16.41		130.0	
		Z	4.43	66.43	16.20		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	Х	4.47	66.78	16.31	0.46	130.0	± 9.6 %
		Y	4,58	67.14	16.55		130.0	
10578-	IEEE 000 44 WEEL 0 4 OUT (BOOD)	Z	4.60	66.69	16.36		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.38	66.93	16.42	0.46	130.0	± 9.6 %
		Y	4.49	67.29	16.66		130.0	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.50	66.83	16.46	0.40	130.0	
AAA	OFDM, 24 Mbps, 90pc duty cycle)	X	4.12	66.01	15.59	0.46	130.0	± 9.6 %
		Y	4.24	66.44	15.89		130.0	
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.26 4.14	65.99	15.69	0.40	130.0	1000
AAA	OFDM, 36 Mbps, 90pc duty cycle)			66.03	15.59	0.46	130.0	± 9.6 %
		Y	4.27	66.48	15.90		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.30 4.29	66.06	15.72	0.46	130.0 130.0	1000
AAA	OFDM, 48 Mbps, 90pc duty cycle)			67.01	16.39	0.46		±9.6 %
		Y Z	4.41 4.41	67.39	16.65		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.41	66.87 65.76	16.41 15.35	0.46	130.0 130.0	± 9.6 %
7001	Cr Dini, O'r Midpo, dopo daty dydicj	Y	4.17	66.20	15.67		130.0	
		Z	4.19	65.76	15.46		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.29	66.33	16.06	0.46	130.0	± 9.6 %
		Υ	4.40	66.70	16.31	·	130.0	
	4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,	Z	4.41	66.24	16.12		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Х	4.32	66.56	16.16	0.46	130.0	± 9.6 %
		Υ	4.43	66.92	16.41		130.0	
		Z	4.43	66.43	16.20		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Х	4.47	66.78	16.31	0.46	130.0	±9.6 %
		Υ	4.58	67.14	16.55		130.0	
		Z	4.60	66.69	16.36		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	Х	4.38	66.93	16.42	0.46	130.0	±9.6 %
		Υ	4.49	67.29	16.66		130.0	
1000-	1555	Z	4.50	66.83	16.46		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.12	66.01	15.59	0.46	130.0	±9.6 %
		Y	4.24	66.44	15.89		130.0	
40.000	<u> </u>	Z	4.26	65.99	15.69		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.14	66.03	15.59	0.46	130.0	± 9.6 %
		Y	4.27	66.48	15.90	<b></b>	130.0	
10590	IEEE 802 140/b W/E: 5 OUT (OEDM 49	Z	4.30	66.06	15.72	0.46	130.0	+0 C 0/
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.29	67.01	16.39	0.46	130.0	± 9.6 %
****		Y	4.41	67.39	16.65		130.0	
40E00	IEEE 900 446% MICHE OUR TOTOM 54	Z	4.41	66.87	16.41	0.40	130.0	1000
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)		4.04	65.76	15.35	0.46	130.0	± 9.6 %
		Y -	4.17	66.20	15.67		130.0	
~~~~		Z	4.19	65.76	15.46	<u> </u>	130.0	<u> </u>

10591-	IEEE 802.11n (HT Mixed, 20MHz,	Х	4.45	66.46	16.22	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)							
		Y	4.56	66.80	16.44		130.0	
10592-	IEEE 000 ddm (UT Minn L OOM) to	Z	4.57	66.34	16.25		130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.56	66.73	16.33	0.46	130.0	± 9.6 %
		Υ	4.67	67.08	16.56		130.0	
		Z	4.69	66.64	16.38		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.47	66.59	16.17	0.46	130.0	±9.6%
		Υ	4.59	66.95	16.42		130.0	
		Z	4.60	66.51	16.23		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.53	66.78	16.36	0.46	130.0	± 9.6 %
		Y	4.64	67.13	16.59		130.0	
		Z	4.66	66.69	16.40		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.49	66.75	16.26	0.46	130.0	±9.6%
		Υ	4.61	67.12	16.50		130.0	
		Z	4.62	66.66	16.30		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.42	66.68	16.23	0.46	130.0	± 9.6 %
		Y	4.53	67.07	16.49		130.0	
		Z	4.55	66.62	16.29		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	×	4.37	66.54	16.07	0.46	130.0	± 9.6 %
		Υ	4.49	66.93	16.34		130.0	
		Z	4.51	66.49	16.14		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	Х	4.38	66.81	16.37	0.46	130.0	± 9.6 %
		Υ	4.49	67.18	16.61		130.0	
		Z	4.50	66.72	16.41		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.17	67.00	16.56	0.46	130.0	± 9.6 %
		Y	5.23	67.23	16.68		130.0	
		Z	5.27	66.93	16.57		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.26	67.35	16.71	0.46	130.0	± 9.6 %
		Υ	5.31	67.52	16.80		130.0	
		Z	5.40	67.37	16.76		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.19	67.20	16.65	0.46	130.0	± 9.6 %
		Υ	5.24	67.37	16.74		130.0	
		Z	5.28	67.08	16.63		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	Х	5.24	67.11	16.52	0.46	130.0	± 9.6 %
		Υ	5.31	67.34	16.64		130.0	
		Z	5.41	67.24	16.63		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.29	67.35	16.79	0.46	130.0	± 9.6 %
		Υ	5.38	67.63	16.93		130.0	
		Z	5.49	67.59	16.94		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.15	66.85	16.51	0.46	130.0	± 9.6 %
		Y	5.25	67.21	16.70		130.0	
40005	1555 000 44 (0.55-1)	Z	5.37	67.21	16.74		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	Х	5.23	67.14	16.65	0.46	130.0	± 9.6 %
		Y	5.30	67.39	16.79		130.0	
10000		Z	5.38	67.23	16.74		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	Х	5.05	66.67	16.26	0.46	130.0	± 9.6 %
		Υ	5.11	66.89	16.39		130.0	
		Z	5.14	66.57	16.26		130.0	

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.30	65.79	15.85	0.46	130.0	± 9.6 %
	- John day oyoloj	Y	4.41	66.18	16.11		130.0	
		l ż	4.41	65.65	15.87		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.42	66.08	15.98	0.46	130.0	± 9.6 %
		Y	4.54	66.48	16.24		130.0	
		Z	4.55	65.99	16.03		130,0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.32	65.89	15.79	0.46	130.0	± 9.6 %
		Y	4.44	66.32	16.07		130.0	
10010		Z	4.44	65.81	15.84		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.37	66.08	15.98	0.46	130.0	± 9.6 %
		Y	4.49	66.49	16.24		130.0	
10611	IEEE 900 44 to Wiff (20MHz, MCC4	Z	4.49	65.99	16.01	0.40	130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.28	65.85	15.80	0.46	130.0	± 9.6 %
			4.40	66.28	16.08		130.0	
10612-	IEEE 802.11ac WiFi (20MHz, MCS5,	Z	4.41	65.78	15.85	0.40	130.0	1000
AAB	90pc duty cycle)	X	4.26	65.94 66.39	15.82 16.11	0.46	130.0	± 9.6 %
		l z	4.40	65.90	15.88		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	$\frac{1}{x}$	4.25	65.75	15.65	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	Y	4.38	66.20	15.95	0.40	130.0	I 9.0 %
		Ż	4.40	65.73	15.73		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.24	66.02	15.94	0.46	130.0	± 9.6 %
		Y	4.36	66.46	16.22		130.0	
		Ż	4.36	65.95	15.99		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.26	65.66	15.54	0,46	130.0	± 9.6 %
		Y	4.39	66.11	15.84		130.0	
		Z	4.40	65.60	15.61	,,,,,	130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	4.95	66.09	16.09	0.46	130.0	± 9.6 %
		Υ	5.04	66.42	16.27		130.0	
		Z	5.06	66.06	16.12		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	4.98	66.18	16.11	0.46	130.0	± 9.6 %
*****		Υ	5.07	66.52	16.29		130.0	
10015	Imper 000 11	Z	5.13	66.25	16.19		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	4.89	66.22	16.14	0.46	130.0	± 9.6 %
		Y	4.99	66.61	16.35	ļ	130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	Z X	5.02 4.94	66.28 66.16	16.21 16.04	0.46	130.0 130.0	± 9.6 %
		Y	5.01	66.45	16.21		130.0	
		Ż	5.04	66.09	16.05	····	130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	4.98	66.07	16.05	0.46	130.0	± 9.6 %
		Y	5.08	66.42	16.24		130.0	
		Z	5.12	66.10	16.11		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	Х	5.00	66.21	16.25	0.46	130.0	± 9.6 %
		Υ	5.09	66.55	16.43		130.0	
		Z	5.12	66.22	16.29		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	×	4.98	66.29	16.29	0.46	130.0	± 9.6 %
		Υ	5,08	66.63	16.46		130.0	
		Z	5.11	66.32	16.34		130.0	

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	Х	4.88	65.86	15.92	0.46	130.0	± 9.6 %
		Y	4.97	66.20	16.11		130.0	
		Z	4.99	65.82	15.95		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.07	66.13	16.12	0.46	130.0	± 9.6 %
		Y	5.16	66.45	16.30		130.0	
		Z	5.20	66.12	16.17		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.18	66.36	16.31	0.46	130.0	± 9.6 %
		Y	5.24	66.57	16.42		130.0	
40000	1000 44 - 14000 A4000	Z	5.32	66.38	16.36		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.30	66.10	16.05	0.46	130.0	± 9.6 %
		Y	5.38	66.44	16.22		130.0	
10627-	IEEE 902 44 oo WiEi (90MHz, MCC4	Z	5.40	66.12	16.09	~ 40	130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.53	66.77	16.36	0.46	130.0	± 9.6 %
		Y	5.59	67.01	16.48		130.0	
10600	IEEE 902 44gp MGC: (90MU = MOCC)	Z	5.65	66.81	16.41	0.40	130.0	1000
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.29	66.06	15.93	0.46	130.0	± 9.6 %
		Y	5.37	66.41	16.10		130.0	
10629-	IEEE 900 44 oo Missi (90MH - MOOO	Z	5.40	66.11	15.98	0.40	130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.43	66.42	16.11	0.46	130.0	± 9.6 %
		Y	5.47	66.61	16.20		130.0	
10630-	IEEE 802.11ac WiFi (80MHz, MCS4,		5.50	66.31	16.08	0.40	130.0	. 0.00/
AAB	90pc duty cycle)	X	5.59	67.09	16.45	0.46	130.0	± 9.6 %
		Y	5.66	67.38	16.59		130.0	
40004	ICEE COO 44 NAVE: (COMMIT MOOR	Z	5.82	67.46	16.66		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.58	67.18	16.70	0.46	130.0	± 9.6 %
		Y	5.66	67.50	16.84		130.0	
10000	1000 44 - 1800 (0084) (- 84000	Z	5.74	67.33	16.79		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	Х	5.57	67.09	16.67	0.46	130.0	± 9.6 %
		Y	5.60	67.22	16.72		130.0	
40000	IEEE 000 44 - 14/E/ (COMMIT MAGES	Z	5.64	66.96	16.63		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.30	66.12	16.00	0.46	130.0	± 9.6 %
		Y	5.39	66.49	16.18		130.0	
40004	IEEE 000 44 - 140EL (OOMIL 14000	Z	5.45	66.28	16.11		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.34	66.35	16.17	0.46	130.0	± 9.6 %
		Y	5.43	66.70	16.34		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	Z X	5.44 5.19	66.35 65.54	16.20 15.47	0.46	130.0 130.0	± 9.6 %
	copo daty dyole/	Y	5.28	65.93	15.68		120.0	
		$\frac{1}{Z}$	5.31	65.62	15.55		130.0 130.0	
10636-	IEEE 802.11ac WiFi (160MHz, MCS0,	X	5.75	66.48	16.16	0.46	130.0	+060/
AAC	90pc duty cycle)	Y	5.81	66.78	16.30	0.40		± 9.6 %
		Z	5.84	66.50	16.30		130.0 130.0	· · · · · · · · · · · · · · · · · · ·
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.86	66.76	16.29	0.46	130.0	± 9.6 %
		Y	5.91	67.05	16.42		130.0	
		Ż	5.98	66.87	16.37		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	5.90	66.89	16.33	0.46	130.0	± 9.6 %
	, copo daty cycle)	Y	5.95	67.16	16.45		120.0	
		Z	5.98				130.0	
		1 4	0.80	66.88	16.35		130.0	

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	Х	5,83	66.70	16.28	0.46	130.0	± 9.6 %
	- copo daty cycle)	Υ	5.90	67.02	16.42		130.0	
		Z	5.94	66.76	16.33		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.77	66.49	16.12	0.46	130.0	± 9.6 %
		Y	5.85	66.88	16.30		130.0	
		Z	5.92	66.69	16.24		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	5.90	66.70	16.24	0.46	130.0	± 9.6 %
		Υ	5.96	66.97	16.37		130.0	
		Z	6.02	66.77	16.30		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	Х	5.91	66.85	16.49	0.46	130.0	± 9.6 %
		Υ	5.98	67.18	16.64		130.0	
40040	[FFF 000 44 NAVE: 44001414 NAVE	Z	6.03	66.94	16.56		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	5.75	66.52	16.20	0.46	130.0	± 9.6 %
		Υ	5.83	66.86	16.37	***************************************	130.0	
40044		Z	5.88	66.65	16.30		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	5.80	66.66	16.30	0.46	130.0	± 9.6 %
		Y	5.88	67.03	16.47		130.0	
10015	HEEF 000 44 - 1400 4400 411 14000	Z	5.94	66.85	16.42	0.15	130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	5.94	66.78	16.33	0.46	130.0	± 9.6 %
		Y	6.00	67.06	16.46		130.0	
40040	LITE TOD (OO FOMA A DD FAIL	Z	6.15	67.15	16.54	0.00	130.0	
10646- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	5.05	83.78	28.65	9.30	60.0	± 9.6 %
		Y	6.98	93.27	32.89		60.0	
		Z	7.15	91.85	32.42		60.0	
10647- AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	4.54	81.82	27.99	9.30	60.0	± 9.6 %
		Y	5.99	90.07	31.84		60.0	
10010		Z	6.33	89.46	31.67		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.37	60.00	6,05	0.00	150.0	± 9.6 %
		Υ	0.48	61.63	8.16		150.0	
		Z	0.43	60.11	6.90		150.0	
10652- AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	2.93	65.21	15.11	2.23	80.0	± 9.6 %
		Y	3.20	66.58	16.05		80.0	
70050		<u> Z</u>	3.10	65.44	15.57		80.0	
10653- AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3,55	64.93	15.73	2.23	80.0	± 9.6 %
		Y	3.74	65.80	16.31		80.0	
40054	LITE TOD (OFDAM AS MILE S TAKES	Z	3.68	65.02	15.99	0.00	80.0	
10654- AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.60	64.60	15.83	2.23	80.0	± 9.6 %
		Y	3.76	65.39	16.34		80.0	
10055	LITE TOD (OCDAMA OO AND TAAO A	Z	3.70	64.69	16.04		80.0	. 0 0 0
10655- AAD	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	3.69	64.52	15.89	2.23	80,0	± 9.6 %
		Y	3.83	65.30	16.38		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Z X	3.78 3.48	64.64 68.63	16.09 11.85	10.00	80.0 50.0	± 9.6 %
7 V V 1		Y	5.65	74.45	13.80		50.0	
		$\frac{1}{z}$	7.21	77.53	15.77		50.0	
10659-	Pulse Waveform (200Hz, 20%)	X	2.03	66.95	10.03	6.99	60.0	± 9.6 %
AAA		1	ı	1	1	1	1	1
7771		Y	100.00	101.12	19.79		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	Х	0.68	62.61	6.79	3.98	80.0	± 9.6 %
		Y	100.00	101.16	18.64		80.0	
		Z	100.00	99.78	18.10		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	0.25	60.00	4.25	2.22	100.0	± 9.6 %
•		Υ	100.00	102.31	18.13		100.0	
		Z	0.28	60.39	4.93		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	6.06	60.21	1.38	0.97	120.0	± 9.6 %
		Υ	100.00	96.37	14.68		120.0	
		Z	9.95	60.38	1.42		120.0	

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

Calibration Laboratory of

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Client

PC Test

Accreditation No.: SCS 0108

Certificate No: EX3-7417_Feb19

C

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7417

Calibration procedure(s)

QA CAL-D1 (9) QA CAL-25 VS, QA CAL-25 V7 Calibration procedure for dosimetric E-field probes

12-96-20

Calibration date:

February 19, 2019

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

Name Function Signature
Calibrated by: Claudio Leubler Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: February 20, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

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Glossary:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF DCP sensitivity in TSL / NORMx,y,z diode compression point

CF A, B, C, D crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization φ

φ rotation around probe axis

Polarization 9

9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle

information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom
 exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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EX3DV4 – SN:7417 February 19, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7417

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.54	0.43	0.53	± 10.1 %
DCP (mV) ⁸	98.7	97.4	100.4	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1,00	0.00	144.6	± 3.3 %	± 4.7 %
		Y	0.00	0.00	1.00		149.7		
		Z	0.00	0.00	1.00		143.1		
10352-	Pulse Waveform (200Hz, 10%)	X	15.00	88.38	19.65	10.00	60.0	± 3.3 %	± 9.6 %
AAA		Y	4.33	71.38	13.30		60.0		
		Z	7.40	77.44	14.95		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	92.19	20.43	6.99	80.0	± 2.2 %	± 9.6 %
AAA		Y	5.53	76.01	13.64		80.0		ļ
		Z	15.00	85.74	16.43]	80.0		
10354-	Pulse Waveform (200Hz, 40%)	Х	15.00	107.68	26.54	3.98	95.0	± 1.3 %	± 9.6 %
AAA		Y	9.05	79.53	12.66		95.0		
	***	Z	15.00	90.71	17.41		95.0		
10355-	Pulse Waveform (200Hz, 60%)	Х	15.00	127.17	33.83	2.22	120.0	± 1.2 %	± 9.6 %
AAA		Y	0.26	60.00	4.45]	120.0		
		Z	15.00	99.84	20.30		120.0		
10387-	QPSK Waveform, 1 MHz	X	0.56	60.62	7.74	0.00	150.0	± 3.6 %	± 9.6 %
AAA		Y	0.42	60.00	4.69		150.0		
		Z	0.44	60.00	5.48		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.27	69.09	16.46	0.00	150.0	± 1.3 %	± 9.6 %
AAA		Υ	1.94	67.43	15.43		150.0		
		Z	2.06	68.27	16.05		150.0]	
10396-	64-QAM Waveform, 100 kl-lz	X	3.15	72.71	19.95	3.01	150.0	± 2.5 %	± 9.6 %
AAA		Υ	2.04	67.08	18.19]	150.0		
		Z	2.07	66.03	16.88		150.0		
10399-	64-QAM Waveform, 40 MHz	Х	3.52	67.53	16.10	0.00	150.0	± 2.4 %	± 9.6 %
AAA		Υ	3.32	66.83	15.68		150.0		
		Z	3.38	67.15	15.89		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.80	65.90	15.74	0.00	150.0	± 4.4 %	± 9.6 %
AAA		Y	4.58	65.58	15.59		150.0		
	1	Z	4.60	65.76	15.65		150.0]	

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 and 6).

B Numerical linearization parameter: uncertainty not required.

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

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7417

Sensor Model Parameters

	C1 fF	C2 fF	α V⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V⁻¹	Т6
X	37.6	279.10	35.33	9.45	0.00	5.09	1.69	0.14	1.01
Υ	29.6	227.60	37.50	5.19	0.43	5.04	0.00	0.16	1.01
Z	28.8	214.34	35.37	6.91	0.00	5.04	0.00	0.24	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	120.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

February 19, 2019 EX3DV4-SN:7417

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7417

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.36	10.36	10.36	0.54	0.99	± 12.0 %
835	41.5	0.90	10.07	10.07	10.07	0.48	0.84	± 12.0 %
1750	40.1	1.37	8.39	8.39	8.39	0.38	0.85	± 12.0 %
1900	40.0	1.40	8.11	8.11	8.11	0.39	0.84	± 12.0 %
2300	39.5	1.67	7.73	7.73	7.73	0.30	0.93	± 12.0 %
2450	39.2	1.80	7.46	7.46	7.46	0.39	0.95	± 12.0 %
2600	39.0	1.96	7.17	7.17	7.17	0.31	1.05	± 12.0 %

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be released to ± 10% if liquid compensation formula is applied to

measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of

the ConvF uncertainty for indicated target tissue parameters.

Galpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

February 19, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7417

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	10.35	10.35	10.35	0.63	0.84	± 12.0 %
835	55.2	0.97	10.11	10.11	10.11	0.43	0.84	± 12.0 %
1750	53.4	1.49	8,21	8.21	8.21	0.43	0.88	± 12.0 %
1900	53.3	1.52	7.86	7.86	7.86	0.43	0.87	± 12.0 %
2300	52.9	1.81	7.64	7.64	7.64	0.41	0.93	± 12.0 %
2450	52.7	1.95	7.51	7.51	7.51	0.40	0.95	± 12.0 %
2600	52.5	2.16	7.37	7.37	7.37	0.33	1.05	± 12.0 %

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

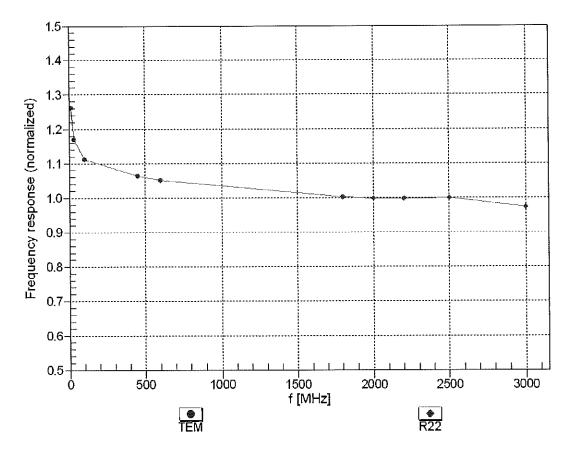
F At frequencies below 3 GHz the validity of these pages of the convF assessed at 1 and 1

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

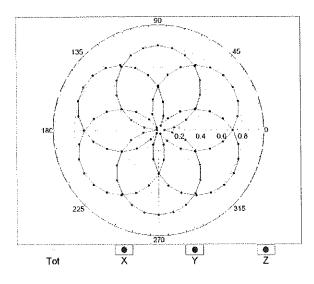
February 19, 2019

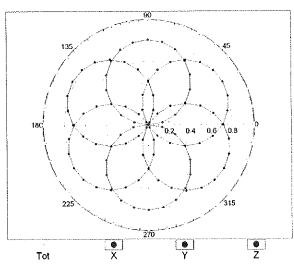
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

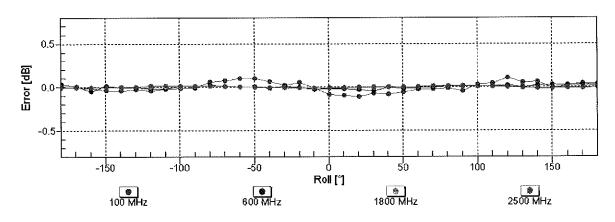


1Hz.TEM

f=1800 MHz,R22

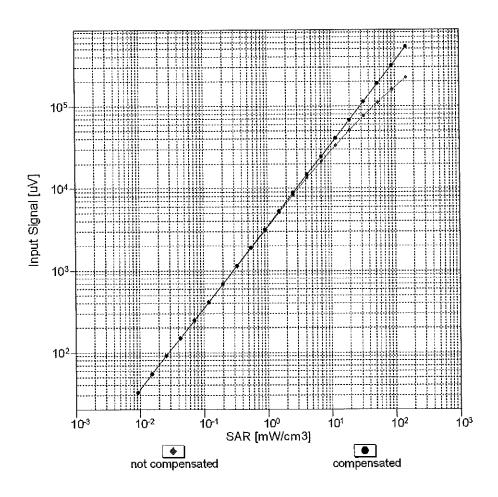


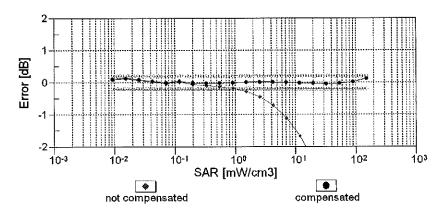




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)

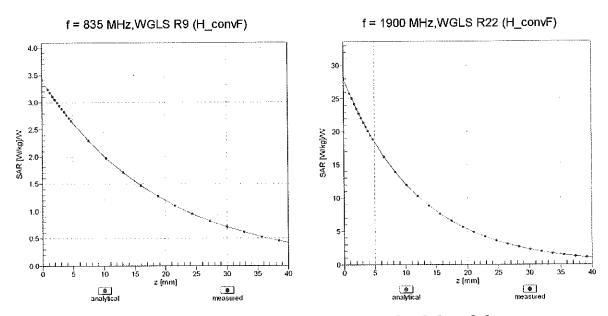




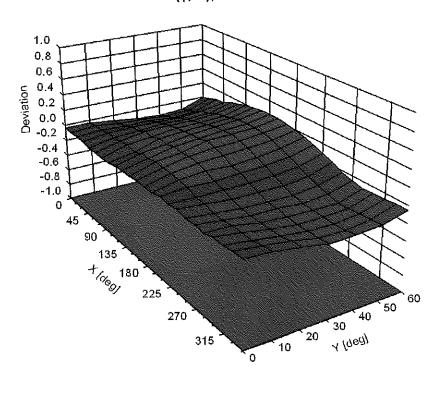
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ , ϑ), f = 900 MHz



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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR	Unc ^E
0	+	CW	CM	(dB)	(k=2)
10010	CAA	SAR Validation (Square, 100ms, 10ms)	CW	0.00	±4.7 %
10010	CAB	UMTS-FDD (WCDMA)	Test	10.00	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WCDMA WLAN	2.91	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	1.87 9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.46	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6 % ±9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6%
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6%
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6%
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061 10062	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6%
	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6%
10063 10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.09	±9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Midps)	WLAN WLAN	9.00	±9.6%
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	9.38 10.12	± 9.6 % ± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.12	±9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.24	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6%
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105 10108	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

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		1.7F FDD (00 FD) 14 4000 FD 40 MH 40 OAM	LTE EDD	6.49	+060/
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD LTE-FDD	6.43 5.75	± 9.6 % ± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	6.44	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)			± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59 6.62	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	8.10	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN WLAN	8.46	±9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.15	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)		8.07	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN WLAN	8.59	±9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.53	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	5.73	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	6.35	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.65	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	5.76	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)			± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41 6.72	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD		
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD LTE-TDD	6.60 9.28	± 9.6 % ± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)			
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD LTE-TDD	9.92	±9.6 % ±9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)			
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 % ± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43 5.79	
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD		±9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 % ± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	5.82	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD LTE-FDD	6.43	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)			± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58 5.46	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	6.21	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)		6.79	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD LTE-FDD	5.73	±9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.52	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.49	±9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)		9.21	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.48	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	10.25	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	5.72	± 9.6 %
10175		LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)		6.52	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD		± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73 6.52	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.50	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	5.72	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	6.52	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.50	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	5.73	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	6.51	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.50	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	5.73	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	6.52	± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.50	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	WLAN	8.09	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.12	± 9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.21	± 9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.10	± 9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.13	± 9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.27	± 9.6 %
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10219	CAC	LIEEE OUZ. HIT (FIT WILKER, 1.2 WILLPS, DEON)	VVLAN	0.00	1 = 0.0 /0

10221 CAC IEEE 802.111 (IT MINSS, 42.2 Mbps, 8F-0AM)	40000		EEEE OOO AA AUTAN AA OAAN AO OAAN	1		
10222 CAO IEEE 802.11n (HT Mixed, 15 Mips, BPSK)	10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
19223 CAC IEEE 802.11 (HT MIXed, 90 Mbps, 16-OAM)		*		WLAN	8.27	±9.6 %
10225 CAC IEEE 902.11n (IHT Nixed, 150 Mbps, 64-QAM)		CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10225 CAC IEEE 902.11n (IHT Nixed, 150 Mbps, 64-QAM)	10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10225 CAB UMIS-FDD (HSPA+) WCDMA	10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbos, 64-QAM)		~~~	
1922E CAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-CAM) LTE-TDD 1.49 ±.9.6 % 1922B CAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 0FSK) LTE-TDD 1.22 ±.9.6 % 1922B CAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 0FSK) LTE-TDD 1.22 ±.9.6 % 1922B CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1.6-CAM) LTE-TDD 1.0.25 ±.9.6 % 1923D CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1.6-CAM) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1.6-CAM) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 1.6-CAM) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 1.6-CAM) LTE-TDD 9.48 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0 CPSK) LTE-TDD 9.21 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1923B CAC LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 0 CPSK) LTE-TDD 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.25 ±.9.6 % 1.0.2	10225	CAB				
19227 CAA LIFE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-CAM) LIFE-TDD 10.28 ±9.9 % 19229 CAC LIFE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-CAM) LIFE-TDD 9.49 ±9.8 % 19229 CAC LIFE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-CAM) LIFE-TDD 9.49 ±9.8 % 19231 CAC LIFE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-CAM) LIFE-TDD 9.49 ±9.8 % 19231 CAC LIFE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-CAM) LIFE-TDD 9.49 ±9.8 % 19231 CAC LIFE-TDD (SC-FDMA, 1 RB, 3 MHz, 1 CPSK) LIFE-TDD 10.25 ±9.8 % 19232 CAF LIFE-TDD (SC-FDMA, 1 RB, 5 MHz, 1 CPSK) LIFE-TDD 10.25 ±9.6 % 19232 CAF LIFE-TDD (SC-FDMA, 1 RB, 5 MHz, 1 CPSK) LIFE-TDD 10.25 ±9.6 % 19233 CAF LIFE-TDD (SC-FDMA, 1 RB, 5 MHz, 1 CPSK) LIFE-TDD 10.26 ±9.6 % 19236 CAF LIFE-TDD (SC-FDMA, 1 RB, 10 MHz, 1 CPSK) LIFE-TDD 10.26 ±9.6 % 19236 CAF LIFE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19236 CAF LIFE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19236 CAF LIFE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19236 CAF LIFE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19236 CAF LIFE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19236 CAF LIFE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19239 CAF LIFE-TDD (SC-FDMA, 1 RB, 15 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19239 CAF LIFE-TDD (SC-FDMA, 1 RB, 15 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19234 CAA LIFE-TDD (SC-FDMA, 1 RB, 15 MHz, 2 G-QAM) LIFE-TDD 10.26 ±9.6 % 19234 CAA LIFE-TDD (SC-FDMA, 5 RB, 1 MHz, 1 G-QAM) LIFE-TDD 10.26 ±9.6 % 19234 CAA LIFE-TDD (SC-FDMA, 5 RB, 1 MHz, 2 G-SCAM) LIFE-TDD 10.06 ±9.6 % 19234 ±9.6 % 19234 LIFE-TDD (SC-FDMA, 5 RB, 1 MHz, 1 G-QAM) LIFE-TDD 10.06 ±9.6 % 19234 LIFE-TDD (SC-FDMA, 5 RB, 1 MHz, 1 G-QAM) LIFE-TDD 10.06 ±9.6 % 19234 LIFE-TDD (SC-FDMA, 5 RB, 1 MHz, 1 G-QAM) LIFE-TDD 10.06 ±9.6 % 19234						10.60/
10228 CAA LIE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-OAM) LIE-TDD 9.22 ±.9.6 % 10230 CAC LIE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-OAM) LIE-TDD 10.25 ±.9.6 % 10230 CAC LIE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-OAM) LIE-TDD 10.25 ±.9.6 % 10231 CAC LIE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-OAM) LIE-TDD 10.25 ±.9.6 % 10232 CAF LIE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-OAM) LIE-TDD 10.26 ±.9.6 % 10233 CAF LIE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-OAM) LIE-TDD 10.26 ±.9.6 % 10233 CAF LIE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-OAM) LIE-TDD 9.48 ±.9.6 % 10235 CAF LIE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-OAM) LIE-TDD 9.48 ±.9.6 % 10235 CAF LIE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 M-10 MHz, 16-OAM) LIE-TDD 9.48 ±.9.6 % 10235 CAF LIE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 M-10 MHz, 16-OAM) LIE-TDD 9.21 ±.9.6 % 10235 CAF LIE-TDD (SC-FDMA, 1 RB, 10 MHz, 2 M-10 MHz, 10 MHz,				····		
10229 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-CAM)						
10230 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-CAM)						
10231 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, CPSK) LTE-TDD 9.19 ± 9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM) LTE-TDD 9.19 ± 9.6 % 10234 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM) LTE-TDD 9.10 ± 9.6 % 10235 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM) LTE-TDD 9.21 ± 9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 6 MHz, 64-CAM) LTE-TDD 9.21 ± 9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 1 0 MHz, 64-CAM) LTE-TDD 10.25 ± 9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 1 0 MHz, 64-CAM) LTE-TDD 10.25 ± 9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 1 0 MHz, 64-CAM) LTE-TDD 10.25 ± 9.6 % 10238 CAF LTE-TDD (SC-FDMA, 1 RB, 1 0 MHz, 64-CAM) LTE-TDD 9.48 ± 9.6 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 1 5 MHz, 64-CAM) LTE-TDD 9.48 ± 9.6 % 10240 CAF LTE-TDD (SC-FDMA, 1 RB, 1 5 MHz, 64-CAM) LTE-TDD 9.48 ± 9.6 % 10241 CAA LTE-TDD (SC-FDMA, 1 RB, 1 5 MHz, 64-CAM) LTE-TDD 9.21 ± 9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-CAM) LTE-TDD 9.82 ± 9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 69-CAM) LTE-TDD 9.86 ± 9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-CAM) LTE-TDD 9.66 ± 9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-CAM) LTE-TDD 9.66 ± 9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-CAM) LTE-TDD 10.06 ± 9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-CAM) LTE-TDD 10.06 ± 9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM) LTE-TDD 10.06 ± 9.6 % 10246 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM) LTE-TDD 10.06 ± 9.6 % 10246 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM) LTE-TDD 10.09 ± 9.6 % 10246 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM) LTE-TDD 10.09 ± 9.6 % 10246 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-CAM) LTE-TDD 10.09 ± 9.6 % 10246 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-CAM) LTE-TDD 10.09 ± 9.6 % 10246 CAF LTE-TDD (S				LTE-TDD	9.48	± 9.6 %
10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-CAM)			LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10232 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-OAM)		CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6%
10234 CAF	10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	
10234 CAF LTE-TDD (SC-FDMA, 1RB, 5 MHz, GPSK)	10233	CAF			~~~	
10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-TDD 9.48 ± 9.8 % 10237 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK) LTE-TDD 10.25 ± 9.8 % 10238 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK) LTE-TDD 9.21 ± 9.6 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK) LTE-TDD 9.21 ± 9.6 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-TDD 10.25 ± 9.6 % 10240 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QFSK) LTE-TDD 9.21 ± 9.6 % 10240 CAF LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.21 ± 9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.22 ± 9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QFSK) LTE-TDD 9.86 ± 9.6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QFSK) LTE-TDD 9.86 ± 9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QFSK) LTE-TDD 9.86 ± 9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QFSK) LTE-TDD 10.06 ± 9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QFSK) LTE-TDD 10.06 ± 9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QFSK) LTE-TDD 10.06 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QFSK) LTE-TDD 10.09 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QFSK) LTE-TDD 9.30 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QFSK) LTE-TDD 9.90 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QFSK) LTE-TDD 10.09 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QFSK) LTE-TDD 9.90 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QFSK) LTE-TDD 9.90 ± 9.6 % 10240 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QFSK) LTE-TDD 9.90 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QFSK) LTE-TDD 9.90 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QFSK) LTE-TDD 9.90 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QFSK) LTE-TDD 9.90 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QFS			LTE-TDD (SC-FDMA 1 RB 5 MHz OPSK)			
10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) LTE-TDD 10.25 ±.9.6 % 10238 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) LTE-TDD 9.48 ±.9.6 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-OAM) LTE-TDD 10.25 ±.9.6 % 10240 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 10.25 ±.9.6 % 10241 CAA LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 9.21 ±.9.6 % 10242 CAA LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 9.21 ±.9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM) LTE-TDD 9.82 ±.9.6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM) LTE-TDD 9.86 ±.9.6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM) LTE-TDD 9.46 ±.9.6 % 10244 CAA LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM) LTE-TDD 10.06 ±.9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-TDD 10.06 ±.9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-TDD 10.06 ±.9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-TDD 10.06 ±.9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.00 ±.9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.90 ±.9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.29 ±.9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.29 ±.9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.29 ±.9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-CAMM) LTE-TDD 9.29 ±.9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-CAMM) LTE-TDD 9.29 ±.9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-CAMM) LTE-TDD 9.20 ±.9.6 % 10250 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, G4-CAMM) LTE-TDD 9.20 ±.9.6 % 10250 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, G4-CAMM) LTE-TDD 9.20 ±.9.6 % 10250 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, G4-CAMM) LTE-TDD 9.20			LTE-TDD (SC-EDMA 1 RB 10 MHz 16-OAM)			
10237 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9,21 ±9.6 % 10238 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-OAM) LTE-TDD 9,28 ±9.6 % 10240 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 10,25 ±9.6 % 10240 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9,21 ±9.6 % 10241 CAA LTE-TDD (SC-FDMA, 50% RB, 14 MHz, 16-OAM) LTE-TDD 9,22 ±9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 14 MHz, 16-OAM) LTE-TDD 9,82 ±9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 14 MHz, GPSK) LTE-TDD 9,86 ±9.6 % 10244 CAA LTE-TDD (SC-FDMA, 50% RB, 14 MHz, GPSK) LTE-TDD 9,46 ±9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM) LTE-TDD 9,46 ±9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, GPSK) LTE-TDD 10,06 ±9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, GPSK) LTE-TDD 10,06 ±9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK) LTE-TDD 10,06 ±9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK) LTE-TDD 10,06 ±9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK) LTE-TDD 10,09 ±9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK) LTE-TDD 10,09 ±9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK) LTE-TDD 10,09 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK) LTE-TDD 10,09 ±9.6 % 10251 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK) LTE-TDD 9,20 ±9.6 % 10251 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, GPSK) LTE-TDD 9,20 ±9.6 % 10252 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, GPSK) LTE-TDD 9,21 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, GPSK) LTE-TDD 9,21 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, GPSK) LTE-TDD 9,22 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, GPSK) LTE-TDD 9,24 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, GPSK) LTE-TDD 9,20 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, GPSK) LTE-TDD 9,20 ±9.6						
10238 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-TDD 9.48 ± 9.6 % 10240 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-TDD 10.25 ± 9.6 % 10241 CAA LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 9.21 ± 9.6 % 10241 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.82 ± 9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.86 ± 9.6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.86 ± 9.6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.06 ± 9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 8.3 MHz, 16-QAM) LTE-TDD 10.06 ± 9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.06 ± 9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.06 ± 9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 10.06 ± 9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.91 ± 9.6 % 10248 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.91 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.92 ± 9.6 % 10240 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.29 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM) LTE-TDD 9.29 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM) LTE-TDD 9.29 ± 9.6 % 10251 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM) LTE-TDD 9.29 ± 9.6 % 10252 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM) LTE-TDD 9.29 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM) LTE-TDD 10.17 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, 64-QAM) LTE-TDD 9.24 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, 64-QAM) LTE-TDD 9.00 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 16 MHz, 64-QAM) LTE-TDD 9.00 ± 9.6 % 10256 CAF LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-TDD 9.90 ± 9.6 % 10256						
10239 CAF						
10240 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 9,21 ±9.8 % 10241 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9,862 ±9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9,862 ±9.6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9,86 ±9.6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 10,06 ±9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 1.6 QAM) LTE-TDD 10,06 ±9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10,06 ±9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10,06 ±9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9,30 ±9.6 % 10248 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9,30 ±9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9,91 ±9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9,29 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 9,29 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 10,17 ±9.6 % 10252 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 10,17 ±9.6 % 10253 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 10,17 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 10,17 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 9,20 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 9,20 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 9,20 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-TDD 9,20 ±9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-TDD 9,20 ±9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9,20 ±9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9,20 ±9.6 % 10256 CAA LTE-TD						
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10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD		
10244	10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)			
10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-TDD 10.06 ± 9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QFSK) LTE-TDD 10.06 ± 9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QFSK) LTE-TDD 9.30 ± 9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-TDD 9.91 ± 9.6 % 10248 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-TDD 9.91 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.92 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.81 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-TDD 9.81 ± 9.6 % 10251 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.29 ± 9.6 % 10252 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10253 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10253 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.00 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.00 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.00 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.20 ± 9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.06 ± 9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.06 ± 9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9.96 ± 9.6 % 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, GA-QAM) LTE-TDD 9.96 ± 9.6 % 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, GA-QAM) LTE-TDD 9.91 ± 9.6 % 10260 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, GA-QAM) LTE-TDD 9.92 ± 9.6 % 10260 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, GA-QAM) LTE-TDD 9.93 ± 9.6 % 10260 CAC LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 9.92 ± 9.6 % 10260 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 9.93 ± 9.6 % 10260 CAF LTE-TDD (SC-FDMA, 100% R	10243	CAA				
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10247 CAF						
10248						
10249 CAF		}				
10250 CAF		1			10.09	± 9.6 %
10251 CAF			LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6%
10251 CAF	10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10252 CAF	10251	CAF				
10253		CAF				
10254 CAF		,				
10255 CAF						
10256						
10257 CAA LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.08 ± 9.6 % 10258 CAA LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD 9.34 ± 9.6 % 10259 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD 9.98 ± 9.6 % 10260 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QAM) LTE-TDD 9.97 ± 9.6 % 10261 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10262 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10263 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 9.83 ± 9.6 % 10263 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 10.16 ± 9.6 % 10264 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 9.23 ± 9.6 % 10265 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) LTE-TDD 9.92 ± 9.6 % 10266 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-TDD 9.92 ± 9.6 % 10266 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) LTE-TDD 9.92 ± 9.6 % 10268 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) LTE-TDD 10.07 ± 9.6 % 10268 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 10.06 ± 9.6 % 10269 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, G4-QAM) LTE-TDD 10.06 ± 9.6 % 10269 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, G4-QAM) LTE-TDD 10.13 ± 9.6 % 10270 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 10.16 ± 9.6 % 10271 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.10) WCDMA 3.96 ± 9.6 % 10272 CAA PHS (QPSK) Subtest 5, 3GPP Rei8.10) WCDMA 3.96 ± 9.6 % 10273 CAA PHS (QPSK) BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10293 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10294 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.46 ± 9.6 % 10295 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.50 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 30 MHz, QPSK) LTE-FDD)				
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10270 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 9.58 ± 9.6 % 10274 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ± 9.6 % 10275 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ± 9.6 % 10277 CAA PHS (QPSK) PHS 11.81 ± 9.6 % 10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 12.18 ± 9.6 % 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ± 9.6 % 10291 AAB CDMA2000, RC3, SO35, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 %				LTE-TDD	10.13	±9.6%
10274 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ± 9.6 % 10275 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ± 9.6 % 10277 CAA PHS (QPSK) PHS 11.81 ± 9.6 % 10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 12.18 ± 9.6 % 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ± 9.6 % 10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 %		CAF				
10275 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ± 9.6 % 10277 CAA PHS (QPSK) PHS 11.81 ± 9.6 % 10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 12.18 ± 9.6 % 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ± 9.6 % 10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %						
10277 CAA PHS (QPSK) PHS 11.81 ± 9.6 % 10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 12.18 ± 9.6 % 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ± 9.6 % 10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %						
10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 12.18 ± 9.6 % 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ± 9.6 % 10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %)		***		
10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 12.18 ± 9.6 % 10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ± 9.6 % 10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %						
10290 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.91 ± 9.6 % 10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %						
10291 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %		1				
10292 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.39 ± 9.6 % 10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %		·				
10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %						± 9.6 %
10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %			CDMA2000, RC3, SO32, Full Rate		3.39	±9.6%
10295 AAB CDMA2000, RC1, SO3, 1/8th Rate 25 fr. CDMA2000 12.49 ± 9.6 % 10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %	10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000		
10297 AAD LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ± 9.6 % 10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %		+				
10298 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ± 9.6 %					***************************************	
10200 FARD ETETI DD (00"1 DIWA, 30% RD, 3 WITZ, 10"QAWI) LTE-PDD 0.39 ±9.0 %						
	10233	ואאט	TETE TOO (OOT DIVING OO /O RO, O WILLE, TO-WAW)	L L- UU	0.38	<u> </u>

10200	A A D	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10300 10301	AAD AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL	WIMAX	12.57	± 9.6 %
10302	AAA	symbols)	. ********	12.01	20.0 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10303	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15	WIMAX	15.24	± 9.6 %
10000	7001	symbols)	***************************************		
10306	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WiMAX	14.67	± 9.6 %
10000	7001	symbols)	.,		
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18	WiMAX	14.49	±9.6%
		symbols)			
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18	WiMAX	14.58	±9.6%
		symbols)			
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18	WiMAX	14.57	± 9.6 %
		symbols)			
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6%
10313	AAA	IDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAA	IDEN 1:6	iDEN	13.48	±9.6%
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6%
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6%
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6%
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60 8.53	± 9.6 % ± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN CDMA2000	3.76	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.77	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A) CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10406	AAB AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10410	AAF	Subframe=2,3,4,7,8,9, Subframe Conf=4)		7.02	0.0 /0
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10414	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10416	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.14	± 9.6 %
13710	,,,,,,	Long preambule)	1		
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.19	± 9.6 %
		Short preambule)			
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
	<u> </u>	Subframe=2,3,4,7,8,9)	LTEEDO	7.50	1000
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD LTE-FDD	7.56 7.53	± 9.6 %
				/ ~ -	1 + U 15 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)			
	AAD AAC AAC	LTE-FDD (OFDMA, 10 MHz, E-1M 3.1, Clippin 44%) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51 7.48	± 9.6 % ± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.50	1060/
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	7.59 8.63	± 9.6 % ± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.82	±9.6%
		Subframe=2,3,4,7,8,9)			
10462	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.30	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
40404	4.4.0	Subframe=2,3,4,7,8,9)			
10464	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10465	AAB	Subframe=2,3,4,7,8,9)	ATE TOO	0.00	
10400	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10466	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10400	7010	Subframe=2,3,4,7,8,9)	LICIDD	0.37	19.0 %
10467	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
,		Subframe=2,3,4,7,8,9)		1.02	2 0,0 70
10468	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.0	
10469	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10.170	= -	Subframe=2,3,4,7,8,9)		······································	
10472	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10473	AAE	Subframe=2,3,4,7,8,9)	LTC TDD	7 00	1.000
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10474	77L	Subframe=2,3,4,7,8,9)	L:E-100	0.32	I 9.0 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
	7012	Subframe=2,3,4,7,8,9)		0.01	2 0.0 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)		***************************************	
10479	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.74	±9.6%
10100		Subframe=2,3,4,7,8,9)			
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.18	± 9.6 %
40404	0.00	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL	1.75 700	0.45	
10481	AAA	Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10482	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL	LTE-TDD	7.71	± 9.6 %
10402	770	Subframe=2,3,4,7,8,9)	LIC-IDD	1,11	1 9.0 %
10483	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.39	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.00	_ 5.0 /0
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.47	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10485	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL	LTE-TDD	7.59	±9.6 %
		Subframe=2,3,4,7,8,9)			
					±9.6%
10486	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.38	
10486		LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			
	AAE AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.38 8.60	± 9.6 %
10486	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10486		LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL			
10486 10487 10488	AAE AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60 7.70	±9.6 % ±9.6 %
10486	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.60	± 9.6 %
10486 10487 10488 10489	AAE AAE AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD LTE-TDD	8.60 7.70 8.31	± 9.6 % ± 9.6 % ± 9.6 %
10486 10487 10488	AAE AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.60 7.70	±9.6 % ±9.6 %
10486 10487 10488 10489	AAE AAE AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD LTE-TDD	8.60 7.70 8.31	± 9.6 % ± 9.6 % ± 9.6 %

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				1 24 1	
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.55	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
10495	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.37	± 9.6 %
10495	AAF	Subframe=2,3,4,7,8,9)		0.07	0.0 /0
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10497	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
10498	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.40	± 9.6 %
10400	/ * * * *	Subframe=2,3,4,7,8,9)			
10499	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.68	± 9.6 %
10500		Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LIE-IDD	7.67	I 9.0 %
10501	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.44	±9.6%
		Subframe=2,3,4,7,8,9)			
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.52	± 9.6 %
10503	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL	LTE-TDD	7.72	± 9.6 %
10303	~~E	Subframe=2,3,4,7,8,9)		1.72	2.0.0 /0
10504	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.54	. 0 0 0/
10505	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
10506	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
10000	/ " " _	Subframe=2,3,4,7,8,9)			
10507	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.36	± 9.6 %
10500		Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10508	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	FIE-IDD	0.00	19.0 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL	LTE-TDD	7.99	± 9.6 %
		Subframe=2,3,4,7,8,9)		1	
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.49	±9.6%
10511	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.51	± 9.6 %
10011	^^_	Subframe=2,3,4,7,8,9)			
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
40540		Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LIE-IDD	0.42	± 9,0 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN WLAN	1.57 1.58	±9.6 % ±9.6 %
10517 10518	AAA AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6%
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522 10523	AAB AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN WLAN	8.45 8.08	± 9.6 % ± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN WLAN	8.21 8.36	± 9.6 % ± 9.6 %
10528 10529	AAB AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %

10535	I A A D	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	140 451	0.45	1000
10536	AAB		WLAN	8.45	± 9.6 %
10537		IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6%
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6%
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6%
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6%
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6%
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	±9.6%
		cycle)			
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6.%
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN	8.59	± 9.6 %
10576	AAA	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN	8.76	± 9.6 %
10581	AAA	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN	8.35	± 9.6 %
10582	AAA	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN	8.67	± 9.6 %
10583	AAB	cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Wibps, 90pc duty cycle)	WLAN	8.60	±9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Wbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN		± 9.6 %
10001	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TILLE OUZ. FTAIT VVIETO GETZ (OFDIVI, 24 MIDDS, SUPE GULY CYCIE)	1 AA PWIN	8.36	1 + 3.0 70

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10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
3			WLAN		
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)		8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6%
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 30pc duty cycle)	WLAN	8.57	±9.6 %
10610	AAB	IEEE 802,11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6%
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
		IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.96	
10625	AAB				±9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6 %
10638	AAC	IEEE 802.11ac WIFI (160MHz, MCS2, 90pc duty cycle)	WLAN		± 9.6 %
				8.85	
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6%
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
1000	1,2,5	1 1 (01 bits (10 tits 12) 1 tit 011) 011pping 70)		0.00	0.0 /0

EX3DV4~ SN:7417

10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %

^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):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{a} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

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	2450	2450
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Ingredients (% by weight)										
Bactericide			0.1	0.1						
DGBE		See page			47	31	44.92	29.44	1	26.7
HEC	See page		1	1					C 1	
NaCl	2-3	2	1.45	0.94	0.4	0.2	0.18	0.39	See page 4	0.1
Sucrose			57	44.9						
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2

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2 Composition / Information on ingredients

The Item is composed of the following ingredients:

Water, 35 - 58% H₂O

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-methyyl-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.

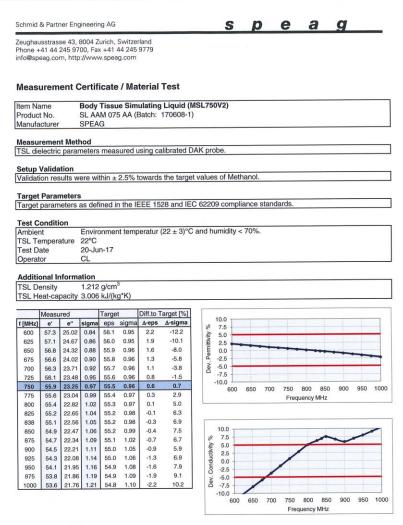


Figure D-2 750MHz Body Tissue Equivalent Matter

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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

Head Tissue Simulating Liquid (HSL750V2) SL AAH 075 AA (Batch: 170612-4) Item Name

Product No.

SPEAG Manufacturer

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.

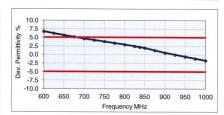
Test Condition

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

Additional Information

TSL Density 1.284 g/cm³ TSL Heat-capacity 2.701 kJ/(kg*K)

	Measu	ured		Targe	t	Diff.to T	arget [%]
f [MHz]	e'	е"	sigma	eps	sigma	∆-eps	Δ-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



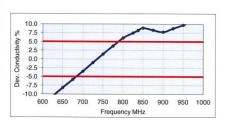


Figure D-3 750MHz Head Tissue Equivalent Matter

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3 Composition / Information on ingredients

The Item is composed of the following ingredients:

50 - 73 % Water

25 - 50 % polyoxyethylenesorbitan monolaurate Non-ionic detergents

Preservative

0-2% 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-methyyl-3(2H)-isothiazolone

<50 %

CAS-No. 9005-64-5 <50 % polyoxyethylenesorbitan monolaurate
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 2.4 GHz Head Tissue Equivalent Matter

Note: 2.4 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.

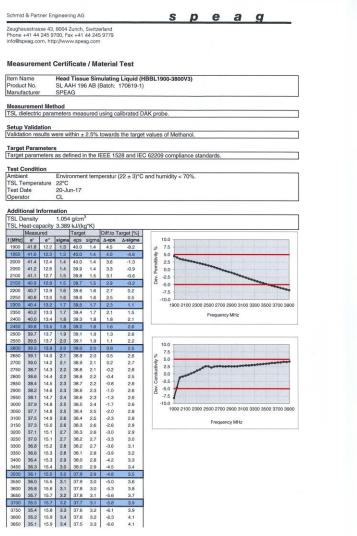


Figure D-5 2.4 GHz Head Tissue Equivalent Matter

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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

SAR						COND.	PERM.	C	W VALIDATION	I	MOD. VALIDATION		
SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE C.	PROBE CAL. POINT		(εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
D	750	4/12/2019	3914	750	Head	0.903	42.785	PASS	PASS	PASS	N/A	N/A	N/A
Н	835	7/13/2018	7409	835	Head	0.932	43.227	PASS	PASS	PASS	GMSK	PASS	N/A
Е	1750	2/6/2019	3589	1750	Head	1.363	41.67	PASS	PASS	PASS	N/A	N/A	N/A
L	1900	5/22/2019	7308	1900	Head	1.45	38.2	PASS	PASS	PASS	GMSK	PASS	N/A
Е	2450	2/5/2019	3589	2450	Head	1.825	39.836	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
I	750	5/16/2019	7357	750	Body	0.937	56.547	PASS	PASS	PASS	N/A	N/A	N/A
J	835	3/10/2019	7488	835	Body	0.988	53.868	PASS	PASS	PASS	GMSK	PASS	N/A
D	1750	4/29/2019	3914	1750	Body	1.529	51.886	PASS	PASS	PASS	N/A	N/A	N/A
G	1900	8/10/2018	7410	1900	Body	1.567	52.239	PASS	PASS	PASS	GMSK	PASS	N/A
К	2450	3/6/2019	7417	2450	Body	2.039	50.67	PASS	PASS	PASS	OFDM/TDD	PASS	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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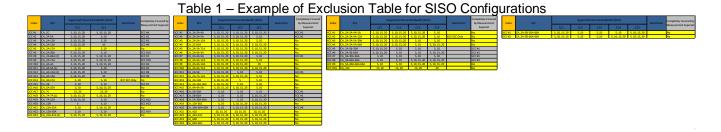
APPENDIX G: DOWNLINK LTE CA RF CONDUCTED POWERS

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 April 2018 TCBC Workshop Notes, 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-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.



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 April 2018 TCBC Workshop Notes, 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.

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Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum 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. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

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.

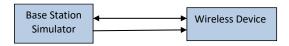


Figure 1
DL CA Power Measurement Setup

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1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 **LTE Band 12 as PCC**

Table 1 Maximum Output Powers

						PCC		SC		Power						
	Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	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_2A-12A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	10	900	1960	24.72	25.28
Γ	CA_4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	10	2175	2132.5	25.05	25.28

1.3.2 LTE Band 5 as PCC

Table 2 Maximum Output Powers

						PCC		SC		Power						
	Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	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)
- 1	CA_2A-5A (1)	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	10	900	1960	24.89	25.30
Γ	CA_4A-5A	LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B4	10	2175	2132.5	24.91	25.30

1.3.3 LTE Band 4 as PCC

Table 3 Maximum Output Powers

					PCC		<u> </u>				SC	CC 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) 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_4A-5A	LTE B4	5	20375	1752.5	QPSK	1	12	2375	2152.5	LTE B5	10	2525	881.5	24.61	24.73
CA_4A-12A	LTE B4	1.4	20393	1754.3	QPSK	1	2	2393	2154.3	LTE B12	10	5095	737.5	24.57	24.80

1.3.4 LTE Band 2 as PCC

Table 4 Maximum Output Powers

I		PCC											SCC 1				
	Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	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)	
ſ	CA_2A-5A (1)	LTE B2	5	18625	1852.5	QPSK	1	12	625	1932.5	LTE B5	10	2525	881.5	24.71	24.80	
Ī	CA_2A-12A (2)	LTE B2	5	18625	1852.5	QPSK	1	12	625	1932.5	LTE B12	10	5095	737.5	24.59	24.80	

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