

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	4.92	66.01	15.78	0.00	150.0	± 9.6 %
		Y	4.61	66.86	16.41		150.0	
		Z	4.92	66.07	15.91		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.08	66.12	15.85	0.00	150.0	± 9.6 %
		Y	4.74	66.92	16.46		150.0	
		Z	5.08	66.19	15.99		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.14	66.15	15.90	0.00	150.0	± 9.6 %
		Y	4.79	66.97	16.52		150.0	
		Z	5.15	66.24	16.04		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.28	66.17	15.79	0.00	150.0	± 9.6 %
		Y	5.02	66.72	16.34		150.0	
		Z	5.29	66.22	15.92		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.46	66.60	15.97	0.00	150.0	± 9.6 %
		Y	5.15	67.11	16.50		150.0	
		Z	5.48	66.70	16.12		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.32	66.30	15.83	0.00	150.0	± 9.6 %
		Y	5.04	66.80	16.35		150.0	
		Z	5.32	66.36	15.96		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.39	66.39	15.87	0.00	150.0	± 9.6 %
		Y	5.17	67.18	16.54		150.0	
		Z	5.41	66.46	16.01		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.58	67.13	16.21	0.00	150.0	± 9.6 %
		Y	5.08	67.06	16.46		150.0	
		Z	5.61	67.28	16.39		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.37	66.44	15.91	0.00	150.0	± 9.6 %
		Y	5.20	67.46	16.69		150.0	
		Z	5.39	66.55	16.06		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.33	66.33	15.82	0.00	150.0	± 9.6 %
		Y	5.00	66.73	16.30		150.0	
		Z	5.34	66.38	15.94		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.29	66.25	15.78	0.00	150.0	± 9.6 %
		Y	5.03	66.95	16.40		150.0	
		Z	5.29	66.30	15.90		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.35	66.24	15.81	0.00	150.0	± 9.6 %
		Y	5.04	66.77	16.32		150.0	
		Z	5.35	66.28	15.93		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.70	66.53	15.89	0.00	150.0	± 9.6 %
		Y	5.48	66.93	16.36		150.0	
		Z	5.71	66.58	16.01		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.81	66.79	16.00	0.00	150.0	± 9.6 %
		Y	5.55	67.14	16.45		150.0	
		Z	5.82	66.86	16.13		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.84	66.87	16.04	0.00	150.0	± 9.6 %
		Y	5.59	67.27	16.51		150.0	
		Z	5.85	66.94	16.17		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.79	66.74	15.99	0.00	150.0	± 9.6 %
		Y	5.53	67.10	16.44		150.0	
		Z	5.80	66.79	16.11		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.83	66.87	16.07	0.00	150.0	± 9.6 %
		Y	5.48	66.99	16.40		150.0	
		Z	5.83	66.91	16.19		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.83	66.75	16.05	0.00	150.0	± 9.6 %
		Y	5.52	66.99	16.43		150.0	
		Z	5.84	66.79	16.17		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.76	66.74	16.07	0.00	150.0	± 9.6 %
		Y	5.46	66.95	16.44		150.0	
		Z	5.77	66.80	16.20		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.83	66.96	16.19	0.00	150.0	± 9.6 %
		Y	5.52	67.16	16.55		150.0	
		Z	5.84	67.00	16.31		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.92	66.88	16.11	0.00	150.0	± 9.6 %
		Y	5.81	67.79	16.83		150.0	
		Z	5.94	66.97	16.26		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.67	66.49	16.06	0.46	150.0	± 9.6 %
		Y	4.32	67.73	16.66		150.0	
		Z	4.66	66.56	16.18		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.87	66.92	16.38	0.46	150.0	± 9.6 %
		Y	4.49	68.17	17.00		150.0	
		Z	4.86	67.00	16.52		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.71	66.74	16.18	0.46	150.0	± 9.6 %
		Y	4.33	67.89	16.77		150.0	
		Z	4.70	66.81	16.31		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.74	67.14	16.55	0.46	150.0	± 9.6 %
		Y	4.39	68.40	17.22		150.0	
		Z	4.73	67.23	16.70		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.61	66.49	15.93	0.46	150.0	± 9.6 %
		Y	4.16	67.29	16.29		150.0	
		Z	4.60	66.56	16.05		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.71	67.30	16.65	0.46	150.0	± 9.6 %
		Y	4.41	68.83	17.49		150.0	
		Z	4.71	67.41	16.81		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.73	67.11	16.56	0.46	150.0	± 9.6 %
		Y	4.35	68.37	17.24		150.0	
		Z	4.72	67.21	16.71		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.04	62.89	14.28	0.46	130.0	± 9.6 %
		Y	1.15	67.27	17.22		130.0	
		Z	1.02	63.22	14.67		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.04	63.32	14.57	0.46	130.0	± 9.6 %
		Y	1.18	68.30	17.83		130.0	
		Z	1.03	63.72	15.00		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	0.83	71.63	16.92	0.46	130.0	± 9.6 %
		Y	100.00	162.55	44.35		130.0	
		Z	1.07	76.86	19.24		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.02	67.14	16.57	0.46	130.0	± 9.6 %
		Y	1.91	82.76	24.56		130.0	
		Z	1.05	68.53	17.52		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.45	66.27	16.09	0.46	130.0	± 9.6 %
		Y	4.10	67.49	16.61		130.0	
		Z	4.44	66.34	16.22		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.47	66.45	16.16	0.46	130.0	± 9.6 %
		Y	4.15	67.84	16.79		130.0	
		Z	4.47	66.53	16.30		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.65	66.71	16.33	0.46	130.0	± 9.6 %
		Y	4.27	68.02	16.91		130.0	
		Z	4.64	66.79	16.46		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.55	66.84	16.42	0.46	130.0	± 9.6 %
		Y	4.20	68.23	17.08		130.0	
		Z	4.54	66.94	16.56		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.31	66.05	15.67	0.46	130.0	± 9.6 %
		Y	3.90	66.98	16.06		130.0	
		Z	4.30	66.11	15.79		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.35	66.12	15.70	0.46	130.0	± 9.6 %
		Y	3.88	66.84	15.95		130.0	
		Z	4.34	66.18	15.83		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.45	66.88	16.36	0.46	130.0	± 9.6 %
		Y	4.14	68.42	17.13		130.0	
		Z	4.44	66.99	16.52		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.24	65.81	15.45	0.46	130.0	± 9.6 %
		Y	3.79	66.65	15.78		130.0	
		Z	4.23	65.87	15.57		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.45	66.27	16.09	0.46	130.0	± 9.6 %
		Y	4.10	67.49	16.61		130.0	
		Z	4.44	66.34	16.22		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.47	66.45	16.16	0.46	130.0	± 9.6 %
		Y	4.15	67.84	16.79		130.0	
		Z	4.47	66.53	16.30		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.65	66.71	16.33	0.46	130.0	± 9.6 %
		Y	4.27	68.02	16.91		130.0	
		Z	4.64	66.79	16.46		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.55	66.84	16.42	0.46	130.0	± 9.6 %
		Y	4.20	68.23	17.08		130.0	
		Z	4.54	66.94	16.56		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.31	66.05	15.67	0.46	130.0	± 9.6 %
		Y	3.90	66.98	16.06		130.0	
		Z	4.30	66.11	15.79		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.35	66.12	15.70	0.46	130.0	± 9.6 %
		Y	3.88	66.84	15.95		130.0	
		Z	4.34	66.18	15.83		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.45	66.88	16.36	0.46	130.0	± 9.6 %
		Y	4.14	68.42	17.13		130.0	
		Z	4.44	66.99	16.52		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.24	65.81	15.45	0.46	130.0	± 9.6 %
		Y	3.79	66.65	15.78		130.0	
		Z	4.23	65.87	15.57		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.61	66.36	16.22	0.46	130.0	± 9.6 %
		Y	4.27	67.61	16.79		130.0	
		Z	4.60	66.43	16.35		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.73	66.67	16.34	0.46	130.0	± 9.6 %
		Y	4.33	67.81	16.89		130.0	
		Z	4.72	66.74	16.48		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.65	66.54	16.20	0.46	130.0	± 9.6 %
		Y	4.27	67.73	16.75		130.0	
		Z	4.64	66.61	16.33		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.71	66.72	16.37	0.46	130.0	± 9.6 %
		Y	4.31	67.86	16.91		130.0	
		Z	4.70	66.80	16.50		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.67	66.68	16.26	0.46	130.0	± 9.6 %
		Y	4.27	67.85	16.83		130.0	
		Z	4.66	66.76	16.40		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.60	66.65	16.25	0.46	130.0	± 9.6 %
		Y	4.18	67.67	16.75		130.0	
		Z	4.59	66.73	16.39		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.55	66.52	16.11	0.46	130.0	± 9.6 %
		Y	4.16	67.60	16.61		130.0	
		Z	4.54	66.60	16.24		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.54	66.75	16.38	0.46	130.0	± 9.6 %
		Y	4.21	68.06	17.02		130.0	
		Z	4.53	66.84	16.52		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.29	66.89	16.48	0.46	130.0	± 9.6 %
		Y	5.11	68.25	17.34		130.0	
		Z	5.30	66.99	16.63		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.40	67.29	16.65	0.46	130.0	± 9.6 %
		Y	5.01	67.95	17.16		130.0	
		Z	5.43	67.45	16.83		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.30	67.04	16.55	0.46	130.0	± 9.6 %
		Y	4.95	67.81	17.11		130.0	
		Z	5.31	67.16	16.70		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.43	67.22	16.56	0.46	130.0	± 9.6 %
		Y	4.98	67.69	16.96		130.0	
		Z	5.44	67.31	16.70		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.50	67.52	16.84	0.46	130.0	± 9.6 %
		Y	5.00	67.82	17.18		130.0	
		Z	5.52	67.67	17.02		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.38	67.17	16.65	0.46	130.0	± 9.6 %
		Y	4.97	67.66	17.06		130.0	
		Z	5.40	67.31	16.82		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.40	67.20	16.66	0.46	130.0	± 9.6 %
		Y	4.93	67.56	17.02		130.0	
		Z	5.42	67.33	16.82		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.15	66.52	16.17	0.46	130.0	± 9.6 %
		Y	4.95	67.77	16.96		130.0	
		Z	5.16	66.62	16.32		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.44	65.66	15.83	0.46	130.0	± 9.6 %
		Y	4.14	67.09	16.52		130.0	
		Z	4.44	65.75	15.97		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.60	66.02	15.98	0.46	130.0	± 9.6 %
		Y	4.22	67.28	16.62		130.0	
		Z	4.59	66.11	16.13		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.49	65.84	15.80	0.46	130.0	± 9.6 %
		Y	4.13	67.14	16.44		130.0	
		Z	4.48	65.93	15.94		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.54	66.01	15.97	0.46	130.0	± 9.6 %
		Y	4.18	67.30	16.61		130.0	
		Z	4.53	66.10	16.12		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.45	65.81	15.81	0.46	130.0	± 9.6 %
		Y	4.09	67.07	16.44		130.0	
		Z	4.45	65.90	15.96		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.45	65.93	15.85	0.46	130.0	± 9.6 %
		Y	4.03	67.00	16.38		130.0	
		Z	4.44	66.03	15.99		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.44	65.77	15.70	0.46	130.0	± 9.6 %
		Y	4.05	66.88	16.24		130.0	
		Z	4.44	65.85	15.84		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.41	65.98	15.95	0.46	130.0	± 9.6 %
		Y	4.08	67.31	16.62		130.0	
		Z	4.40	66.08	16.10		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.45	65.64	15.58	0.46	130.0	± 9.6 %
		Y	4.06	66.87	16.16		130.0	
		Z	4.44	65.72	15.71		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.09	66.09	16.06	0.46	130.0	± 9.6 %
		Y	4.76	66.84	16.63		130.0	
		Z	5.10	66.16	16.20		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.16	66.28	16.13	0.46	130.0	± 9.6 %
		Y	4.76	66.87	16.63		130.0	
		Z	5.16	66.37	16.28		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.05	66.30	16.16	0.46	130.0	± 9.6 %
		Y	4.69	66.97	16.69		130.0	
		Z	5.06	66.39	16.30		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.06	66.08	15.98	0.46	130.0	± 9.6 %
		Y	4.75	66.94	16.61		130.0	
		Z	5.07	66.17	16.13		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.14	66.12	16.05	0.46	130.0	± 9.6 %
		Y	4.76	66.75	16.54		130.0	
		Z	5.15	66.20	16.19		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.15	66.26	16.24	0.46	130.0	± 9.6 %
		Y	4.80	66.94	16.78		130.0	
		Z	5.16	66.33	16.38		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.15	66.36	16.29	0.46	130.0	± 9.6 %
		Y	4.77	66.96	16.79		130.0	
		Z	5.15	66.43	16.42		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.03	65.89	15.92	0.46	130.0	± 9.6 %
		Y	4.69	66.61	16.45		130.0	
		Z	5.03	65.94	16.04		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.23	66.15	16.11	0.46	130.0	± 9.6 %
		Y	4.85	66.81	16.62		130.0	
		Z	5.23	66.22	16.25		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.41	66.58	16.39	0.46	130.0	± 9.6 %
		Y	4.98	67.17	16.88		130.0	
		Z	5.39	66.59	16.50		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.42	66.17	16.04	0.46	130.0	± 9.6 %
		Y	5.14	66.64	16.52		130.0	
		Z	5.42	66.21	16.16		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.65	66.77	16.32	0.46	130.0	± 9.6 %
		Y	5.31	67.18	16.77		130.0	
		Z	5.68	66.90	16.48		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.42	66.16	15.94	0.46	130.0	± 9.6 %
		Y	5.11	66.54	16.37		130.0	
		Z	5.42	66.21	16.06		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.51	66.29	16.00	0.46	130.0	± 9.6 %
		Y	5.29	67.09	16.65		130.0	
		Z	5.53	66.38	16.14		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.82	67.43	16.57	0.46	130.0	± 9.6 %
		Y	5.21	66.99	16.61		130.0	
		Z	5.87	67.63	16.77		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.76	67.37	16.74	0.46	130.0	± 9.6 %
		Y	5.33	67.57	17.10		130.0	
		Z	5.78	67.47	16.89		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.64	66.89	16.52	0.46	130.0	± 9.6 %
		Y	5.50	68.05	17.35		130.0	
		Z	5.67	67.03	16.69		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.49	66.38	16.08	0.46	130.0	± 9.6 %
		Y	5.12	66.68	16.49		130.0	
		Z	5.49	66.42	16.20		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.47	66.40	16.15	0.46	130.0	± 9.6 %
		Y	5.20	67.06	16.73		130.0	
		Z	5.47	66.45	16.27		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.34	65.69	15.52	0.46	130.0	± 9.6 %
		Y	4.98	66.00	15.88		130.0	
		Z	5.34	65.71	15.62		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.85	66.55	16.15	0.46	130.0	± 9.6 %
		Y	5.60	66.87	16.55		130.0	
		Z	5.86	66.59	16.27		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.99	66.90	16.31	0.46	130.0	± 9.6 %
		Y	5.71	67.22	16.72		130.0	
		Z	6.00	66.97	16.44		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	5.99	66.89	16.28	0.46	130.0	± 9.6 %
		Y	5.74	67.30	16.74		130.0	
		Z	6.01	66.96	16.42		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.96	66.80	16.28	0.46	130.0	± 9.6 %
		Y	5.67	67.08	16.67		130.0	
		Z	5.97	66.85	16.40		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.95	66.77	16.21	0.46	130.0	± 9.6 %
		Y	5.56	66.76	16.45		130.0	
		Z	5.95	66.81	16.32		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.02	66.79	16.24	0.46	130.0	± 9.6 %
		Y	5.69	66.96	16.57		130.0	
		Z	6.04	66.86	16.37		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.05	66.99	16.51	0.46	130.0	± 9.6 %
		Y	5.71	67.14	16.83		130.0	
		Z	6.06	67.04	16.63		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.89	66.69	16.25	0.46	130.0	± 9.6 %
		Y	5.55	66.75	16.51		130.0	
		Z	5.91	66.75	16.38		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	5.98	66.95	16.40	0.46	130.0	± 9.6 %
		Y	5.64	67.07	16.70		130.0	
		Z	5.98	66.98	16.51		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.12	67.04	16.41	0.46	130.0	± 9.6 %
		Y	6.04	68.05	17.16		130.0	
		Z	6.18	67.23	16.60		130.0	
10646-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	9.30	96.04	33.28	9.30	60.0	± 9.6 %
		Y	4.72	85.46	29.98		60.0	
		Z	9.03	95.55	33.06		60.0	
10647-AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	8.21	93.71	32.60	9.30	60.0	± 9.6 %
		Y	4.16	82.96	29.11		60.0	
		Z	7.96	93.24	32.39		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.48	60.73	7.74	0.00	150.0	± 9.6 %
		Y	0.28	60.00	2.97		150.0	
		Z	0.45	60.55	7.36		150.0	
10652-AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.22	65.68	15.68	2.23	80.0	± 9.6 %
		Y	3.30	69.14	16.34		80.0	
		Z	3.22	65.91	15.87		80.0	
10653-AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.80	65.29	16.06	2.23	80.0	± 9.6 %
		Y	3.72	67.55	16.85		80.0	
		Z	3.78	65.38	16.21		80.0	
10654-AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.81	64.97	16.11	2.23	80.0	± 9.6 %
		Y	3.74	66.80	16.91		80.0	
		Z	3.80	65.03	16.25		80.0	
10655-AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	3.89	64.93	16.16	2.23	80.0	± 9.6 %
		Y	3.83	66.43	16.92		80.0	
		Z	3.87	64.98	16.29		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	14.05	86.04	19.08	10.00	50.0	± 9.6 %
		Y	3.58	69.28	11.90		50.0	
		Z	8.33	79.49	16.82		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	106.74	22.89	6.99	60.0	± 9.6 %
		Y	3.69	71.79	11.78		60.0	
		Z	100.00	105.40	22.19		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	104.23	20.43	3.98	80.0	± 9.6 %
		Y	100.00	95.42	16.30		80.0	
		Z	100.00	101.41	19.06		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	99.34	17.30	2.22	100.0	± 9.6 %
		Y	100.00	88.65	12.65		100.0	
		Z	15.45	82.53	12.34		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	0.16	60.00	3.79	0.97	120.0	± 9.6 %
		Y	0.01	60.00	22597.33		120.0	
		Z	27.38	213.45	12.35		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.



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 **PC Test**

Certificate No: **EX3-7410_Jul17**

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

BN ✓
 8/3/2017

Calibration date: **July 17, 2017**

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 $(22 \pm 3)^{\circ}\text{C}$ 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-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	31-Dec-16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 660	7-Dec-16 (No. DAE4-660_Dec16)	Dec-17
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Technical Manager	

Issued: July 17, 2017

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



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,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 ϑ	ϑ 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:

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

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z}** = NORM_{x,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.
- DCP_{x,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
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,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 $f \leq 800$ 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 NORM_{x,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 NORM_x (no uncertainty required).

Probe EX3DV4

SN:7410

Manufactured: November 24, 2015
Calibrated: July 17, 2017

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7410

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.40	0.46	0.43	$\pm 10.1 \%$
DCP (mV) ^B	95.4	94.7	91.2	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	130.7	$\pm 3.5 \%$
		Y	0.0	0.0	1.0		146.7	
		Z	0.0	0.0	1.0		132.5	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $\text{ms}\cdot\text{V}^{-2}$	T2 $\text{ms}\cdot\text{V}^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	41.43	313.6	36.54	8.525	0.381	5.024	0.000	0.467	1.003
Y	41.67	315.5	36.57	10.32	0.000	5.055	0.334	0.426	1.004
Z	51.58	393.9	37.05	11.42	0.427	5.066	0.000	0.561	1.006

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 E^2 -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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7410

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	10.60	10.60	10.60	0.53	0.80	± 12.0 %
835	41.5	0.90	10.08	10.08	10.08	0.41	0.98	± 12.0 %
1750	40.1	1.37	8.66	8.66	8.66	0.41	0.82	± 12.0 %
1900	40.0	1.40	8.37	8.37	8.37	0.28	1.19	± 12.0 %
2300	39.5	1.67	8.02	8.02	8.02	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.68	7.68	7.68	0.33	0.89	± 12.0 %
2600	39.0	1.96	7.42	7.42	7.42	0.40	0.80	± 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 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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7410

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	10.19	10.19	10.19	0.33	1.02	± 12.0 %
835	55.2	0.97	9.95	9.95	9.95	0.50	0.80	± 12.0 %
1750	53.4	1.49	8.32	8.32	8.32	0.39	0.86	± 12.0 %
1900	53.3	1.52	7.98	7.98	7.98	0.44	0.86	± 12.0 %
2300	52.9	1.81	7.85	7.85	7.85	0.44	0.84	± 12.0 %
2450	52.7	1.95	7.69	7.69	7.69	0.37	0.89	± 12.0 %
2600	52.5	2.16	7.43	7.43	7.43	0.28	0.99	± 12.0 %

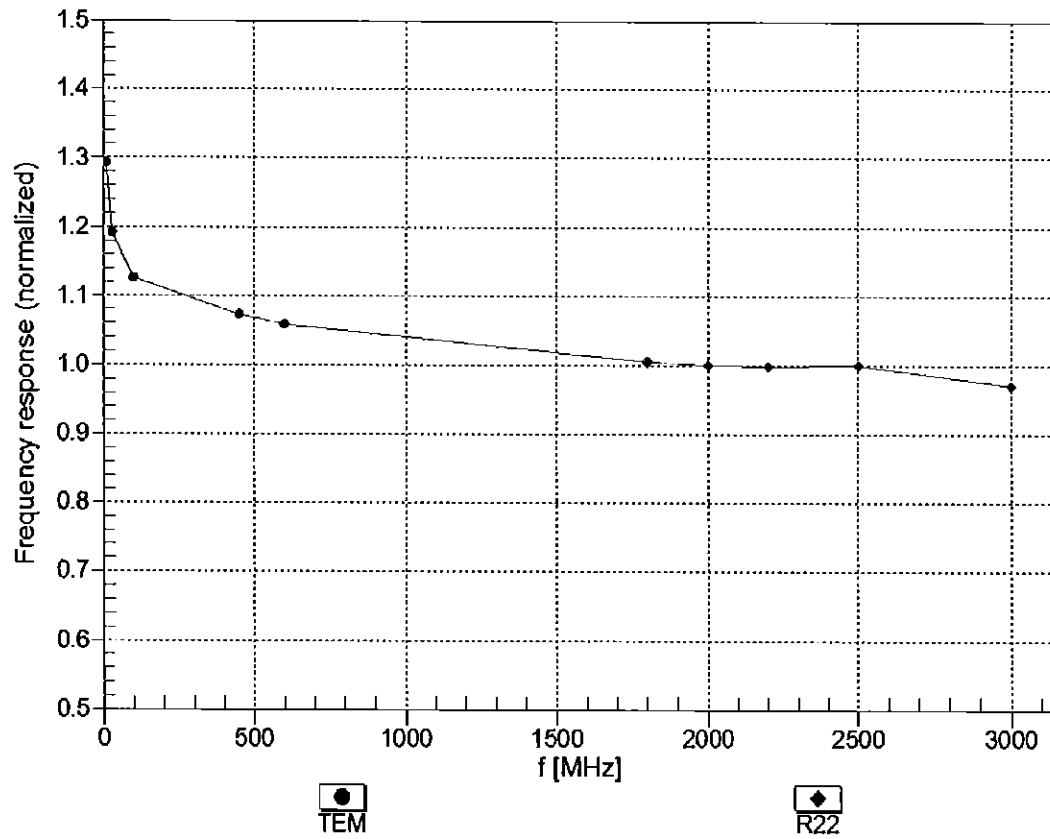
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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 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.

Frequency Response of E-Field

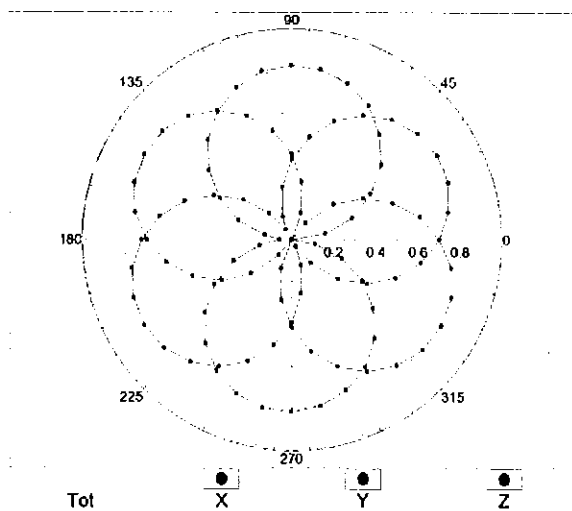
(TEM-Cell:ifi110 EXX, Waveguide: R22)



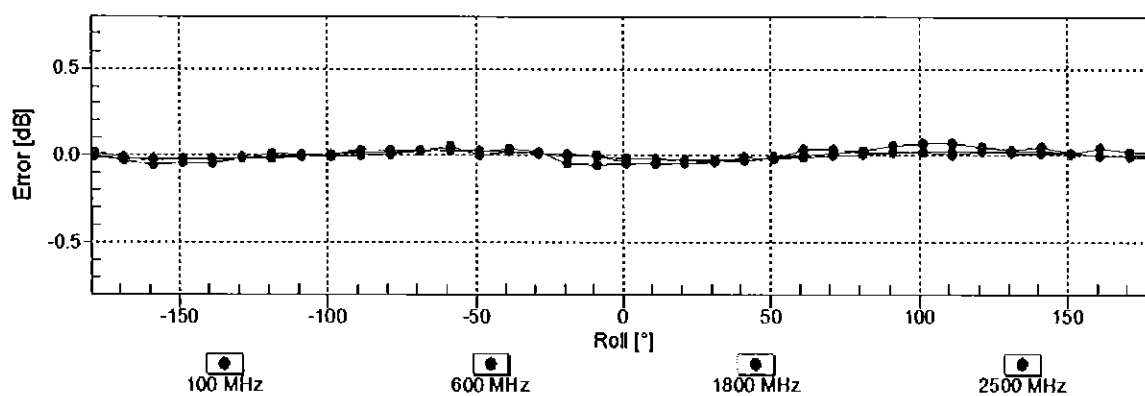
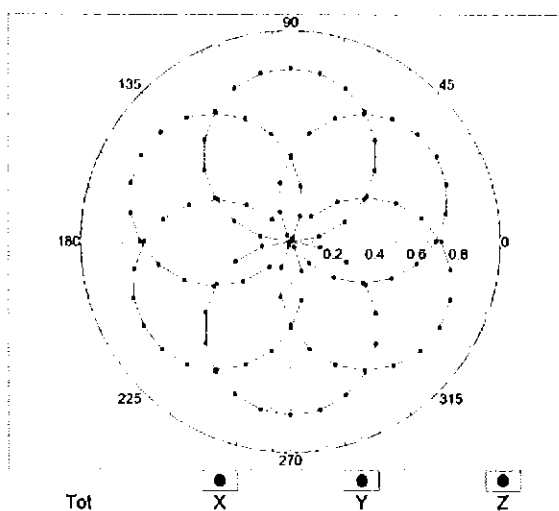
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

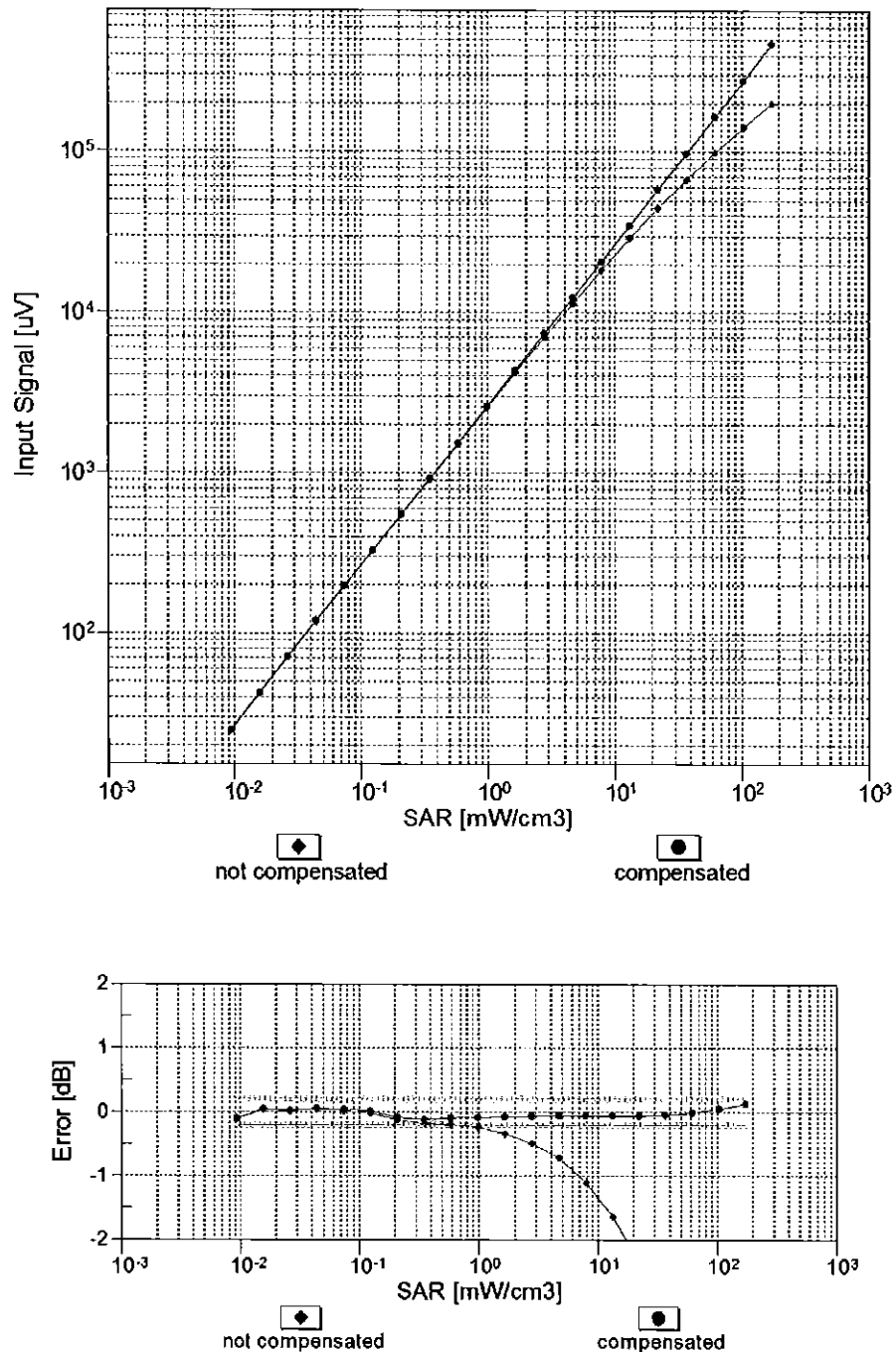
f=600 MHz,TEM



f=1800 MHz,R22

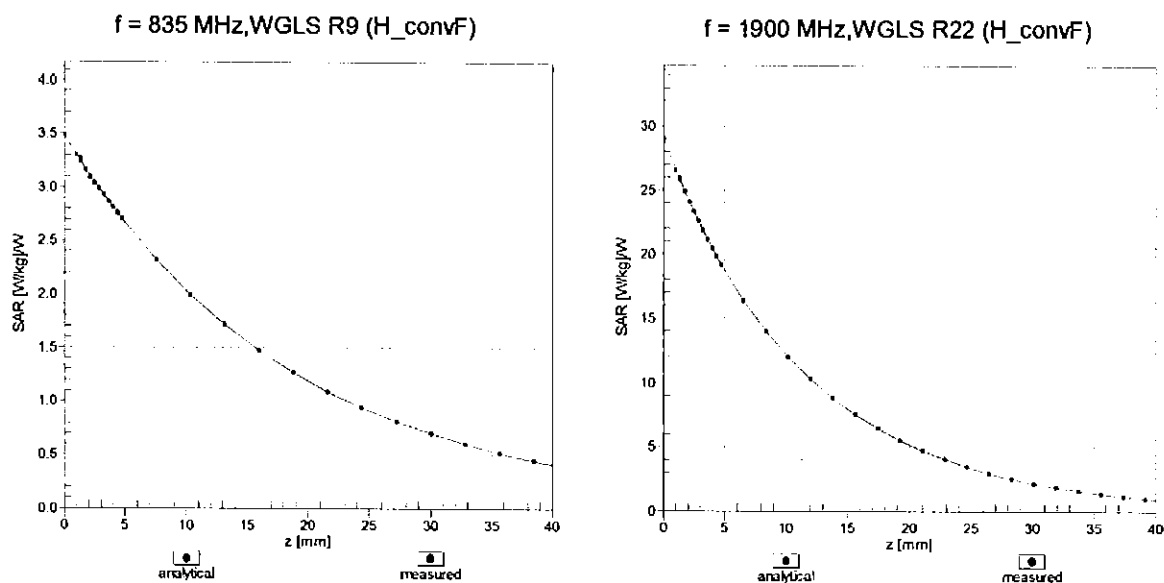
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$)



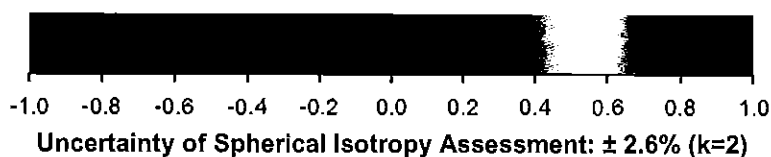
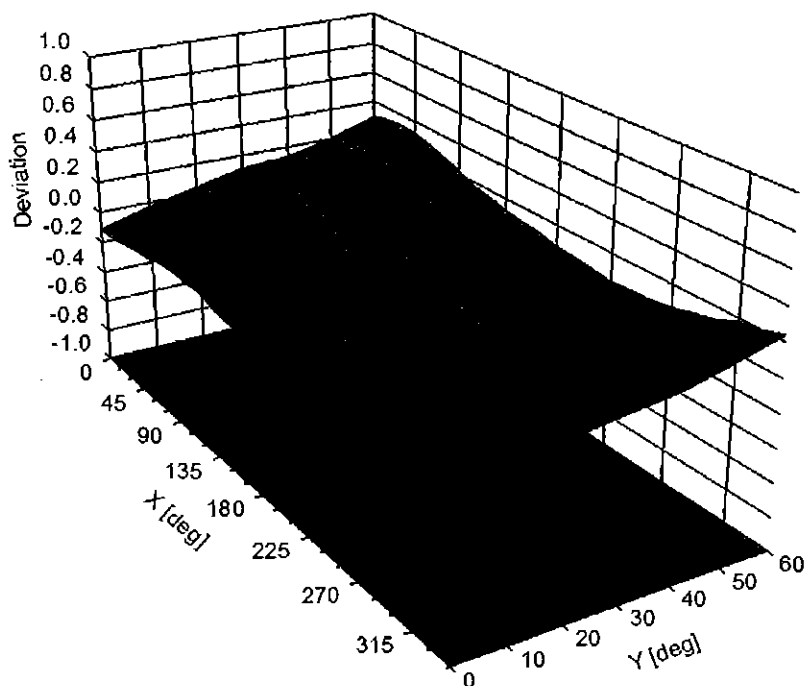
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



DASY/EASY - Parameters of Probe: EX3DV4 - SN:7410

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	1.2
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

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	130.7	$\pm 3.5 \%$
		Y	0.00	0.00	1.00		146.7	
		Z	0.00	0.00	1.00		132.5	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.07	65.38	9.86	10.00	20.0	$\pm 9.6 \%$
		Y	1.71	64.71	9.07		20.0	
		Z	3.44	71.14	12.92		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.05	67.82	15.62	0.00	150.0	$\pm 9.6 \%$
		Y	1.11	68.91	16.28		150.0	
		Z	1.02	66.59	14.94		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.16	63.70	15.28	0.41	150.0	$\pm 9.6 \%$
		Y	1.18	64.10	15.65		150.0	
		Z	1.17	63.41	15.09		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.78	66.61	17.05	1.46	150.0	$\pm 9.6 \%$
		Y	4.80	66.74	17.21		150.0	
		Z	4.93	66.52	17.11		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	111.37	25.72	9.39	50.0	$\pm 9.6 \%$
		Y	100.00	111.58	25.35		50.0	
		Z	100.00	117.02	28.59		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	110.83	25.53	9.57	50.0	$\pm 9.6 \%$
		Y	1707.76	142.54	31.32		50.0	
		Z	100.00	116.46	28.39		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	111.84	24.81	6.56	60.0	$\pm 9.6 \%$
		Y	100.00	114.48	25.68		60.0	
		Z	100.00	118.35	28.09		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.46	65.17	23.20	12.57	50.0	$\pm 9.6 \%$
		Y	5.27	82.06	33.95		50.0	
		Z	3.61	65.78	23.81		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	6.19	83.69	29.67	9.56	60.0	$\pm 9.6 \%$
		Y	7.27	90.43	33.46		60.0	
		Z	7.46	87.49	31.34		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	114.23	25.06	4.80	80.0	$\pm 9.6 \%$
		Y	100.00	119.65	27.19		80.0	
		Z	100.00	121.09	28.48		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	118.39	26.12	3.55	100.0	$\pm 9.6 \%$
		Y	100.00	127.35	29.74		100.0	
		Z	100.00	125.00	29.42		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	4.31	75.70	25.15	7.80	80.0	$\pm 9.6 \%$
		Y	4.62	78.76	27.21		80.0	
		Z	5.10	78.80	26.60		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	110.42	23.70	5.30	70.0	$\pm 9.6 \%$
		Y	100.00	113.76	24.95		70.0	
		Z	100.00	117.44	27.22		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	118.50	24.77	1.88	100.0	$\pm 9.6 \%$
		Y	100.00	132.66	30.37		100.0	
		Z	100.00	126.29	28.44		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	133.47	29.67	1.17	100.0	± 9.6 %
		Y	100.00	157.48	38.89		100.0	
		Z	100.00	136.04	31.29		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	8.66	91.15	24.16	5.30	70.0	± 9.6 %
		Y	61.92	124.81	33.89		70.0	
		Z	18.44	105.53	29.79		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	2.66	76.47	17.66	1.88	100.0	± 9.6 %
		Y	4.91	85.76	21.28		100.0	
		Z	3.14	79.12	19.77		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.87	72.76	15.96	1.17	100.0	± 9.6 %
		Y	2.71	78.22	18.36		100.0	
		Z	2.01	73.50	17.25		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	12.89	97.56	26.18	5.30	70.0	± 9.6 %
		Y	100.00	133.04	35.90		70.0	
		Z	33.52	115.95	32.67		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	2.40	75.20	17.16	1.88	100.0	± 9.6 %
		Y	4.17	83.65	20.57		100.0	
		Z	2.91	78.15	19.38		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.89	73.11	16.24	1.17	100.0	± 9.6 %
		Y	2.73	78.67	18.67		100.0	
		Z	2.03	73.85	17.51		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.93	73.30	15.79	0.00	150.0	± 9.6 %
		Y	2.16	74.82	16.50		150.0	
		Z	1.82	71.39	15.74		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	108.18	23.51	7.78	50.0	± 9.6 %
		Y	100.00	108.75	23.44		50.0	
		Z	100.00	113.77	26.32		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	97.63	1.20	0.00	150.0	± 9.6 %
		Y	0.00	97.90	0.75		150.0	
		Z	0.00	95.09	2.63		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	29.38	92.85	22.01	13.80	25.0	± 9.6 %
		Y	100.00	106.19	24.33		25.0	
		Z	100.00	113.54	28.60		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	92.32	108.50	25.07	10.79	40.0	± 9.6 %
		Y	100.00	108.13	24.14		40.0	
		Z	100.00	114.66	27.93		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	28.80	103.53	27.62	9.03	50.0	± 9.6 %
		Y	100.00	125.87	33.73		50.0	
		Z	90.56	125.80	34.77		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	3.55	72.15	22.79	6.55	100.0	± 9.6 %
		Y	3.72	74.09	24.21		100.0	
		Z	4.11	74.59	23.97		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.17	64.52	15.76	0.61	110.0	± 9.6 %
		Y	1.20	65.09	16.25		110.0	
		Z	1.19	64.38	15.68		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	5.38	97.28	26.54	1.30	110.0	± 9.6 %
		Y	94.12	145.74	39.06		110.0	
		Z	7.25	100.99	27.69		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	2.03	75.84	20.79	2.04	110.0	± 9.6 %
		Y	2.53	80.86	23.32		110.0	
		Z	2.46	78.49	22.05		110.0	
10062-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.60	66.68	16.54	0.49	100.0	± 9.6 %
		Y	4.62	66.77	16.65		100.0	
		Z	4.74	66.54	16.54		100.0	
10063-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.61	66.74	16.62	0.72	100.0	± 9.6 %
		Y	4.63	66.85	16.75		100.0	
		Z	4.75	66.63	16.64		100.0	
10064-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.88	66.97	16.83	0.86	100.0	± 9.6 %
		Y	4.90	67.08	16.96		100.0	
		Z	5.06	66.93	16.89		100.0	
10065-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.74	66.82	16.90	1.21	100.0	± 9.6 %
		Y	4.76	66.95	17.05		100.0	
		Z	4.91	66.81	16.98		100.0	
10066-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.74	66.80	17.04	1.46	100.0	± 9.6 %
		Y	4.77	66.94	17.21		100.0	
		Z	4.93	66.83	17.15		100.0	
10067-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.03	66.98	17.46	2.04	100.0	± 9.6 %
		Y	5.05	67.14	17.66		100.0	
		Z	5.21	66.94	17.57		100.0	
10068-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.05	66.91	17.63	2.55	100.0	± 9.6 %
		Y	5.07	67.08	17.84		100.0	
		Z	5.27	67.04	17.82		100.0	
10069-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.12	66.93	17.81	2.67	100.0	± 9.6 %
		Y	5.15	67.10	18.04		100.0	
		Z	5.34	66.99	17.99		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.86	66.65	17.32	1.99	100.0	± 9.6 %
		Y	4.89	66.79	17.50		100.0	
		Z	5.01	66.60	17.41		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.82	66.89	17.50	2.30	100.0	± 9.6 %
		Y	4.84	67.05	17.70		100.0	
		Z	4.99	66.92	17.63		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.86	67.00	17.79	2.83	100.0	± 9.6 %
		Y	4.89	67.17	18.02		100.0	
		Z	5.04	67.03	17.94		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.85	66.87	17.91	3.30	100.0	± 9.6 %
		Y	4.86	67.04	18.15		100.0	
		Z	5.01	66.88	18.08		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.86	66.89	18.16	3.82	90.0	± 9.6 %
		Y	4.87	67.06	18.42		90.0	
		Z	5.04	67.00	18.40		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.88	66.70	18.29	4.15	90.0	± 9.6 %
		Y	4.89	66.85	18.55		90.0	
		Z	5.03	66.71	18.47		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.91	66.76	18.38	4.30	90.0	± 9.6 %
		Y	4.91	66.91	18.65		90.0	
		Z	5.05	66.76	18.56		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.83	66.43	12.40	0.00	150.0	± 9.6 %
		Y	0.90	67.46	13.02		150.0	
		Z	0.87	65.72	12.74		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.60	60.00	4.03	4.77	80.0	± 9.6 %
		Y	1.74	63.67	4.99		80.0	
		Z	0.50	57.10	2.51		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	111.84	24.82	6.56	60.0	± 9.6 %
		Y	100.00	114.47	25.69		60.0	
		Z	100.00	118.36	28.12		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.87	68.36	15.98	0.00	150.0	± 9.6 %
		Y	1.92	68.79	16.27		150.0	
		Z	1.83	67.16	15.53		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.83	68.30	15.96	0.00	150.0	± 9.6 %
		Y	1.88	68.76	16.25		150.0	
		Z	1.79	67.10	15.49		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	6.23	83.81	29.72	9.56	60.0	± 9.6 %
		Y	7.34	90.66	33.54		60.0	
		Z	7.51	87.64	31.39		60.0	
10100-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.10	70.42	16.91	0.00	150.0	± 9.6 %
		Y	3.17	70.79	17.14		150.0	
		Z	3.14	69.95	16.56		150.0	
10101-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.21	67.53	16.05	0.00	150.0	± 9.6 %
		Y	3.24	67.71	16.18		150.0	
		Z	3.28	67.33	15.89		150.0	
10102-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.31	67.53	16.15	0.00	150.0	± 9.6 %
		Y	3.34	67.67	16.26		150.0	
		Z	3.39	67.31	16.00		150.0	
10103-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.23	73.47	19.72	3.98	65.0	± 9.6 %
		Y	5.84	75.95	21.01		65.0	
		Z	5.88	74.83	20.39		65.0	
10104-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.46	71.98	19.77	3.98	65.0	± 9.6 %
		Y	5.63	73.01	20.49		65.0	
		Z	6.00	73.07	20.39		65.0	
10105-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.42	71.61	19.91	3.98	65.0	± 9.6 %
		Y	5.43	72.06	20.36		65.0	
		Z	5.47	71.05	19.77		65.0	
10108-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.70	69.72	16.76	0.00	150.0	± 9.6 %
		Y	2.76	70.10	16.99		150.0	
		Z	2.75	69.19	16.39		150.0	
10109-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.86	67.48	15.96	0.00	150.0	± 9.6 %
		Y	2.89	67.67	16.11		150.0	
		Z	2.94	67.16	15.80		150.0	
10110-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.18	68.93	16.34	0.00	150.0	± 9.6 %
		Y	2.24	69.40	16.63		150.0	
		Z	2.24	68.24	15.99		150.0	
10111-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.61	68.71	16.36	0.00	150.0	± 9.6 %
		Y	2.63	68.84	16.47		150.0	
		Z	2.65	67.91	16.10		150.0	

10112-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.99	67.52	16.03	0.00	150.0	± 9.6 %
		Y	3.01	67.67	16.15		150.0	
		Z	3.06	67.16	15.86		150.0	
10113-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.77	68.89	16.50	0.00	150.0	± 9.6 %
		Y	2.78	68.97	16.58		150.0	
		Z	2.81	68.06	16.24		150.0	
10114-CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.09	67.23	16.55	0.00	150.0	± 9.6 %
		Y	5.10	67.28	16.60		150.0	
		Z	5.19	67.11	16.46		150.0	
10115-CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.34	67.29	16.58	0.00	150.0	± 9.6 %
		Y	5.35	67.33	16.63		150.0	
		Z	5.51	67.33	16.58		150.0	
10116-CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.18	67.42	16.57	0.00	150.0	± 9.6 %
		Y	5.19	67.47	16.62		150.0	
		Z	5.30	67.34	16.50		150.0	
10117-CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.06	67.11	16.50	0.00	150.0	± 9.6 %
		Y	5.07	67.16	16.56		150.0	
		Z	5.16	66.99	16.42		150.0	
10118-CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.42	67.49	16.69	0.00	150.0	± 9.6 %
		Y	5.44	67.54	16.74		150.0	
		Z	5.60	67.55	16.70		150.0	
10119-CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.16	67.38	16.56	0.00	150.0	± 9.6 %
		Y	5.17	67.43	16.62		150.0	
		Z	5.27	67.27	16.48		150.0	
10140-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.34	67.53	16.06	0.00	150.0	± 9.6 %
		Y	3.37	67.68	16.18		150.0	
		Z	3.42	67.31	15.91		150.0	
10141-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.47	67.67	16.25	0.00	150.0	± 9.6 %
		Y	3.49	67.79	16.35		150.0	
		Z	3.55	67.42	16.09		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.97	69.09	15.95	0.00	150.0	± 9.6 %
		Y	2.03	69.63	16.28		150.0	
		Z	2.02	68.20	15.69		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.49	69.65	15.98	0.00	150.0	± 9.6 %
		Y	2.52	69.83	16.12		150.0	
		Z	2.51	68.62	15.86		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.16	66.67	13.99	0.00	150.0	± 9.6 %
		Y	2.21	66.99	14.22		150.0	
		Z	2.30	66.43	14.30		150.0	
10145-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.07	64.11	10.67	0.00	150.0	± 9.6 %
		Y	1.11	64.57	11.01		150.0	
		Z	1.31	65.51	12.40		150.0	
10146-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	1.34	62.65	9.02	0.00	150.0	± 9.6 %
		Y	1.43	63.27	9.42		150.0	
		Z	2.01	66.35	12.18		150.0	
10147-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	1.45	63.47	9.57	0.00	150.0	± 9.6 %
		Y	1.57	64.27	10.06		150.0	
		Z	2.34	68.34	13.28		150.0	

10149-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.87	67.55	16.01	0.00	150.0	± 9.6 %
		Y	2.90	67.73	16.15		150.0	
		Z	2.95	67.22	15.84		150.0	
10150-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.00	67.58	16.08	0.00	150.0	± 9.6 %
		Y	3.02	67.73	16.20		150.0	
		Z	3.07	67.21	15.90		150.0	
10151-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	5.65	76.57	21.08	3.98	65.0	± 9.6 %
		Y	6.17	78.83	22.29		65.0	
		Z	6.35	77.82	21.74		65.0	
10152-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	4.98	71.84	19.37	3.98	65.0	± 9.6 %
		Y	5.18	73.09	20.20		65.0	
		Z	5.53	73.00	20.11		65.0	
10153-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.35	72.93	20.23	3.98	65.0	± 9.6 %
		Y	5.53	74.06	20.99		65.0	
		Z	5.88	73.94	20.90		65.0	
10154-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.24	69.40	16.63	0.00	150.0	± 9.6 %
		Y	2.29	69.81	16.88		150.0	
		Z	2.29	68.69	16.27		150.0	
10155-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.62	68.74	16.38	0.00	150.0	± 9.6 %
		Y	2.64	68.87	16.49		150.0	
		Z	2.65	67.91	16.11		150.0	
10156-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.81	69.21	15.68	0.00	150.0	± 9.6 %
		Y	1.88	69.80	16.04		150.0	
		Z	1.87	68.31	15.53		150.0	
10157-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.01	67.27	13.98	0.00	150.0	± 9.6 %
		Y	2.06	67.66	14.24		150.0	
		Z	2.13	67.00	14.37		150.0	
10158-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.78	68.97	16.55	0.00	150.0	± 9.6 %
		Y	2.79	69.05	16.63		150.0	
		Z	2.81	68.12	16.28		150.0	
10159-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.12	67.76	14.27	0.00	150.0	± 9.6 %
		Y	2.17	68.10	14.50		150.0	
		Z	2.25	67.49	14.68		150.0	
10160-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.73	68.96	16.55	0.00	150.0	± 9.6 %
		Y	2.78	69.27	16.76		150.0	
		Z	2.78	68.34	16.22		150.0	
10161-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.89	67.56	16.00	0.00	150.0	± 9.6 %
		Y	2.92	67.72	16.12		150.0	
		Z	2.97	67.14	15.84		150.0	
10162-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.00	67.76	16.13	0.00	150.0	± 9.6 %
		Y	3.03	67.89	16.24		150.0	
		Z	3.08	67.27	15.94		150.0	
10166-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.29	68.55	18.62	3.01	150.0	± 9.6 %
		Y	3.39	69.14	19.00		150.0	
		Z	3.56	68.77	18.74		150.0	
10167-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	3.85	70.83	18.84	3.01	150.0	± 9.6 %
		Y	4.06	71.87	19.39		150.0	
		Z	4.27	71.19	19.04		150.0	

10168-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.31	73.34	20.36	3.01	150.0	± 9.6 %
		Y	4.51	74.19	20.77		150.0	
		Z	4.72	73.40	20.38		150.0	
10169-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.65	67.07	17.95	3.01	150.0	± 9.6 %
		Y	2.76	67.90	18.46		150.0	
		Z	2.95	68.18	18.47		150.0	
10170-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.35	71.83	19.98	3.01	150.0	± 9.6 %
		Y	3.58	73.08	20.56		150.0	
		Z	3.90	73.37	20.58		150.0	
10171-AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.80	68.11	17.24	3.01	150.0	± 9.6 %
		Y	3.01	69.49	17.99		150.0	
		Z	3.23	69.44	17.85		150.0	
10172-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.65	76.31	22.99	6.02	65.0	± 9.6 %
		Y	5.48	85.89	27.40		65.0	
		Z	5.55	83.03	25.87		65.0	
10173-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.66	85.15	24.55	6.02	65.0	± 9.6 %
		Y	10.56	95.03	28.43		65.0	
		Z	12.26	94.72	28.10		65.0	
10174-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.93	79.32	21.92	6.02	65.0	± 9.6 %
		Y	8.98	90.91	26.48		65.0	
		Z	8.81	87.78	25.30		65.0	
10175-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.62	66.79	17.70	3.01	150.0	± 9.6 %
		Y	2.73	67.64	18.24		150.0	
		Z	2.91	67.87	18.21		150.0	
10176-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.35	71.86	19.99	3.01	150.0	± 9.6 %
		Y	3.58	73.10	20.58		150.0	
		Z	3.90	73.39	20.59		150.0	
10177-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.64	66.92	17.79	3.01	150.0	± 9.6 %
		Y	2.75	67.76	18.31		150.0	
		Z	2.94	68.03	18.32		150.0	
10178-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.33	71.68	19.88	3.01	150.0	± 9.6 %
		Y	3.56	72.95	20.49		150.0	
		Z	3.86	73.15	20.45		150.0	
10179-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.04	69.83	18.46	3.01	150.0	± 9.6 %
		Y	3.27	71.21	19.16		150.0	
		Z	3.53	71.24	19.06		150.0	
10180-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.79	68.06	17.20	3.01	150.0	± 9.6 %
		Y	3.00	69.44	17.95		150.0	
		Z	3.23	69.37	17.80		150.0	
10181-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.64	66.91	17.79	3.01	150.0	± 9.6 %
		Y	2.74	67.75	18.31		150.0	
		Z	2.93	68.01	18.31		150.0	
10182-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.32	71.66	19.87	3.01	150.0	± 9.6 %
		Y	3.55	72.93	20.48		150.0	
		Z	3.85	73.13	20.44		150.0	
10183-AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.79	68.04	17.19	3.01	150.0	± 9.6 %
		Y	3.00	69.42	17.94		150.0	
		Z	3.22	69.35	17.79		150.0	

10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.65	66.95	17.81	3.01	150.0	± 9.6 %
		Y	2.75	67.79	18.33		150.0	
		Z	2.95	68.05	18.33		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.34	71.72	19.91	3.01	150.0	± 9.6 %
		Y	3.57	72.99	20.51		150.0	
		Z	3.87	73.20	20.48		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	2.80	68.09	17.22	3.01	150.0	± 9.6 %
		Y	3.01	69.48	17.97		150.0	
		Z	3.23	69.41	17.82		150.0	
10187-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.66	67.00	17.88	3.01	150.0	± 9.6 %
		Y	2.76	67.84	18.40		150.0	
		Z	2.95	68.09	18.39		150.0	
10188-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.43	72.31	20.28	3.01	150.0	± 9.6 %
		Y	3.66	73.53	20.84		150.0	
		Z	4.00	73.86	20.87		150.0	
10189-AAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	2.85	68.45	17.48	3.01	150.0	± 9.6 %
		Y	3.07	69.84	18.22		150.0	
		Z	3.30	69.81	18.09		150.0	
10193-CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.48	66.73	16.24	0.00	150.0	± 9.6 %
		Y	4.49	66.78	16.30		150.0	
		Z	4.58	66.49	16.16		150.0	
10194-CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.63	67.01	16.37	0.00	150.0	± 9.6 %
		Y	4.65	67.06	16.43		150.0	
		Z	4.76	66.82	16.28		150.0	
10195-CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.67	67.04	16.38	0.00	150.0	± 9.6 %
		Y	4.69	67.09	16.44		150.0	
		Z	4.80	66.85	16.30		150.0	
10196-CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.47	66.77	16.24	0.00	150.0	± 9.6 %
		Y	4.48	66.82	16.30		150.0	
		Z	4.59	66.56	16.19		150.0	
10197-CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.64	67.02	16.38	0.00	150.0	± 9.6 %
		Y	4.66	67.08	16.44		150.0	
		Z	4.78	66.84	16.30		150.0	
10198-CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.67	67.05	16.39	0.00	150.0	± 9.6 %
		Y	4.68	67.10	16.45		150.0	
		Z	4.81	66.86	16.31		150.0	
10219-CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.42	66.79	16.21	0.00	150.0	± 9.6 %
		Y	4.44	66.84	16.27		150.0	
		Z	4.54	66.57	16.15		150.0	
10220-CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.64	66.99	16.36	0.00	150.0	± 9.6 %
		Y	4.65	67.04	16.42		150.0	
		Z	4.77	66.82	16.29		150.0	
10221-CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.68	66.98	16.38	0.00	150.0	± 9.6 %
		Y	4.69	67.03	16.44		150.0	
		Z	4.81	66.80	16.30		150.0	
10222-CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.03	67.11	16.49	0.00	150.0	± 9.6 %
		Y	5.04	67.15	16.55		150.0	
		Z	5.14	67.00	16.41		150.0	

10223-CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.33	67.33	16.62	0.00	150.0	± 9.6 %
		Y	5.34	67.38	16.68		150.0	
		Z	5.45	67.21	16.54		150.0	
10224-CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.07	67.22	16.48	0.00	150.0	± 9.6 %
		Y	5.09	67.26	16.53		150.0	
		Z	5.18	67.11	16.40		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.76	66.33	15.32	0.00	150.0	± 9.6 %
		Y	2.78	66.46	15.44		150.0	
		Z	2.85	65.93	15.34		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	7.05	86.26	25.03	6.02	65.0	± 9.6 %
		Y	11.33	96.43	28.97		65.0	
		Z	13.18	96.17	28.66		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	7.07	85.23	24.04	6.02	65.0	± 9.6 %
		Y	11.45	95.09	27.83		65.0	
		Z	12.76	94.16	27.40		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	4.84	82.15	25.37	6.02	65.0	± 9.6 %
		Y	6.17	88.64	28.46		65.0	
		Z	7.76	90.12	28.51		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	6.71	85.26	24.59	6.02	65.0	± 9.6 %
		Y	10.65	95.13	28.47		65.0	
		Z	12.36	94.84	28.14		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	6.68	84.20	23.61	6.02	65.0	± 9.6 %
		Y	10.65	93.73	27.33		65.0	
		Z	11.94	92.89	26.92		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	4.67	81.40	24.99	6.02	65.0	± 9.6 %
		Y	5.94	87.77	28.07		65.0	
		Z	7.43	89.17	28.10		65.0	
10232-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	6.69	85.24	24.58	6.02	65.0	± 9.6 %
		Y	10.63	95.12	28.47		65.0	
		Z	12.34	94.82	28.14		65.0	
10233-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	6.66	84.17	23.60	6.02	65.0	± 9.6 %
		Y	10.62	93.69	27.32		65.0	
		Z	11.91	92.86	26.91		65.0	
10234-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	4.54	80.75	24.63	6.02	65.0	± 9.6 %
		Y	5.76	87.05	27.69		65.0	
		Z	7.17	88.32	27.68		65.0	
10235-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.69	85.26	24.59	6.02	65.0	± 9.6 %
		Y	10.64	95.16	28.48		65.0	
		Z	12.35	94.85	28.15		65.0	
10236-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	6.73	84.30	23.64	6.02	65.0	± 9.6 %
		Y	10.78	93.91	27.38		65.0	
		Z	12.05	93.03	26.96		65.0	
10237-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.67	81.42	25.00	6.02	65.0	± 9.6 %
		Y	5.94	87.83	28.10		65.0	
		Z	7.43	89.21	28.12		65.0	
10238-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.68	85.21	24.57	6.02	65.0	± 9.6 %
		Y	10.60	95.09	28.46		65.0	
		Z	12.31	94.79	28.13		65.0	

10239-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	6.64	84.13	23.58	6.02	65.0	± 9.6 %
		Y	10.57	93.64	27.30		65.0	
		Z	11.87	92.82	26.90		65.0	
10240-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	4.66	81.38	24.99	6.02	65.0	± 9.6 %
		Y	5.92	87.78	28.08		65.0	
		Z	7.41	89.16	28.10		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	6.49	77.69	23.88	6.98	65.0	± 9.6 %
		Y	7.06	80.22	25.34		65.0	
		Z	7.33	78.75	24.61		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.69	74.96	22.63	6.98	65.0	± 9.6 %
		Y	6.72	79.20	24.84		65.0	
		Z	6.48	76.10	23.39		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.22	73.93	23.04	6.98	65.0	± 9.6 %
		Y	5.37	75.23	24.06		65.0	
		Z	5.30	72.76	22.72		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.03	70.70	15.63	3.98	65.0	± 9.6 %
		Y	4.63	73.27	17.01		65.0	
		Z	5.80	76.12	19.17		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.94	70.12	15.32	3.98	65.0	± 9.6 %
		Y	4.47	72.48	16.60		65.0	
		Z	5.67	75.49	18.85		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	4.17	75.16	18.15	3.98	65.0	± 9.6 %
		Y	5.29	79.64	20.23		65.0	
		Z	5.81	80.17	21.10		65.0	
10247-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	4.10	71.58	17.29	3.98	65.0	± 9.6 %
		Y	4.43	73.43	18.37		65.0	
		Z	4.92	74.07	19.21		65.0	
10248-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	4.07	70.96	16.98	3.98	65.0	± 9.6 %
		Y	4.37	72.65	17.99		65.0	
		Z	4.90	73.42	18.88		65.0	
10249-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	5.33	79.24	20.92	3.98	65.0	± 9.6 %
		Y	6.73	84.01	23.05		65.0	
		Z	6.62	82.34	22.76		65.0	
10250-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	4.99	74.32	20.40	3.98	65.0	± 9.6 %
		Y	5.24	75.79	21.30		65.0	
		Z	5.59	75.60	21.35		65.0	
10251-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	4.75	72.14	19.02	3.98	65.0	± 9.6 %
		Y	4.99	73.56	19.92		65.0	
		Z	5.35	73.44	20.02		65.0	
10252-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	5.62	79.05	22.01	3.98	65.0	± 9.6 %
		Y	6.48	82.42	23.65		65.0	
		Z	6.49	80.72	22.96		65.0	
10253-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	4.91	71.43	19.12	3.98	65.0	± 9.6 %
		Y	5.09	72.60	19.93		65.0	
		Z	5.40	72.41	19.86		65.0	
10254-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.23	72.40	19.88	3.98	65.0	± 9.6 %
		Y	5.41	73.49	20.63		65.0	
		Z	5.73	73.30	20.57		65.0	

10255-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.37	75.82	20.95	3.98	65.0	± 9.6 %
		Y	5.81	77.90	22.11		65.0	
		Z	5.98	76.90	21.60		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.95	66.44	12.43	3.98	65.0	± 9.6 %
		Y	3.25	68.14	13.47		65.0	
		Z	4.63	72.57	16.66		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.90	65.89	12.05	3.98	65.0	± 9.6 %
		Y	3.14	67.36	12.98		65.0	
		Z	4.49	71.73	16.18		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.90	69.51	14.64	3.98	65.0	± 9.6 %
		Y	3.44	72.54	16.25		65.0	
		Z	4.52	75.89	18.60		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.46	72.72	18.47	3.98	65.0	± 9.6 %
		Y	4.78	74.47	19.50		65.0	
		Z	5.19	74.62	19.97		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.49	72.43	18.33	3.98	65.0	± 9.6 %
		Y	4.79	74.08	19.32		65.0	
		Z	5.22	74.34	19.84		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	5.17	78.27	21.02	3.98	65.0	± 9.6 %
		Y	6.16	82.12	22.85		65.0	
		Z	6.14	80.53	22.44		65.0	
10262-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.98	74.25	20.35	3.98	65.0	± 9.6 %
		Y	5.23	75.73	21.26		65.0	
		Z	5.58	75.55	21.31		65.0	
10263-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.74	72.12	19.01	3.98	65.0	± 9.6 %
		Y	4.98	73.53	19.91		65.0	
		Z	5.34	73.42	20.01		65.0	
10264-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	5.56	78.83	21.90	3.98	65.0	± 9.6 %
		Y	6.41	82.18	23.54		65.0	
		Z	6.42	80.51	22.86		65.0	
10265-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	4.98	71.84	19.37	3.98	65.0	± 9.6 %
		Y	5.18	73.09	20.20		65.0	
		Z	5.53	73.00	20.12		65.0	
10266-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.34	72.91	20.22	3.98	65.0	± 9.6 %
		Y	5.53	74.04	20.98		65.0	
		Z	5.88	73.92	20.89		65.0	
10267-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	5.64	76.53	21.06	3.98	65.0	± 9.6 %
		Y	6.16	78.78	22.27		65.0	
		Z	6.34	77.78	21.72		65.0	
10268-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.63	71.94	19.85	3.98	65.0	± 9.6 %
		Y	5.78	72.88	20.51		65.0	
		Z	6.14	72.88	20.41		65.0	
10269-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.64	71.57	19.72	3.98	65.0	± 9.6 %
		Y	5.77	72.45	20.36		65.0	
		Z	6.12	72.44	20.27		65.0	
10270-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.66	74.09	20.17	3.98	65.0	± 9.6 %
		Y	5.94	75.48	21.01		65.0	
		Z	6.22	75.05	20.69		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.58	66.84	15.32	0.00	150.0	± 9.6 %
		Y	2.61	67.05	15.49		150.0	
		Z	2.61	66.19	15.19		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.62	68.33	15.81	0.00	150.0	± 9.6 %
		Y	1.68	69.01	16.23		150.0	
		Z	1.61	67.33	15.34		150.0	
10277-CAA	PHS (QPSK)	X	1.71	60.26	5.85	9.03	50.0	± 9.6 %
		Y	1.46	60.00	5.35		50.0	
		Z	2.08	61.87	7.57		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	3.48	68.77	13.21	9.03	50.0	± 9.6 %
		Y	3.86	71.42	14.38		50.0	
		Z	7.61	81.06	19.61		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	3.59	69.09	13.42	9.03	50.0	± 9.6 %
		Y	4.03	71.88	14.65		50.0	
		Z	7.80	81.31	19.76		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	1.38	68.75	13.54	0.00	150.0	± 9.6 %
		Y	1.49	69.81	14.11		150.0	
		Z	1.48	68.40	14.11		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.81	66.18	12.25	0.00	150.0	± 9.6 %
		Y	0.88	67.15	12.85		150.0	
		Z	0.85	65.51	12.62		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	1.25	72.63	15.60	0.00	150.0	± 9.6 %
		Y	1.48	75.02	16.70		150.0	
		Z	1.05	69.24	14.85		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	3.55	87.18	21.36	0.00	150.0	± 9.6 %
		Y	4.57	90.90	22.67		150.0	
		Z	1.55	74.98	17.80		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	10.90	87.79	24.10	9.03	50.0	± 9.6 %
		Y	17.38	97.96	27.91		50.0	
		Z	9.27	86.92	25.25		50.0	
10297-AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.71	69.84	16.83	0.00	150.0	± 9.6 %
		Y	2.77	70.21	17.06		150.0	
		Z	2.77	69.29	16.46		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.47	67.49	13.62	0.00	150.0	± 9.6 %
		Y	1.54	68.13	14.02		150.0	
		Z	1.61	67.49	14.26		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.91	66.04	11.93	0.00	150.0	± 9.6 %
		Y	2.08	67.06	12.49		150.0	
		Z	2.55	68.88	14.29		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.52	62.84	9.56	0.00	150.0	± 9.6 %
		Y	1.60	63.32	9.89		150.0	
		Z	2.01	64.97	11.67		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.49	64.94	17.15	4.17	50.0	± 9.6 %
		Y	4.51	65.12	17.33		50.0	
		Z	4.77	65.09	17.35		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	4.98	65.58	17.87	4.96	50.0	± 9.6 %
		Y	5.02	65.83	18.08		50.0	
		Z	5.23	65.61	18.00		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.72	65.17	17.66	4.96	50.0	± 9.6 %
		Y	4.76	65.39	17.86		50.0	
		Z	4.98	65.24	17.83		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.56	65.16	17.23	4.17	50.0	± 9.6 %
		Y	4.60	65.38	17.42		50.0	
		Z	4.79	65.14	17.34		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.06	66.26	18.68	6.02	35.0	± 9.6 %
		Y	3.98	66.05	18.73		35.0	
		Z	4.32	66.47	19.19		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.43	65.65	18.52	6.02	35.0	± 9.6 %
		Y	4.40	65.62	18.63		35.0	
		Z	4.69	65.80	18.88		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.31	65.69	18.43	6.02	35.0	± 9.6 %
		Y	4.27	65.62	18.52		35.0	
		Z	4.59	65.95	18.85		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.28	65.86	18.56	6.02	35.0	± 9.6 %
		Y	4.24	65.78	18.65		35.0	
		Z	4.55	66.08	18.95		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.47	65.79	18.63	6.02	35.0	± 9.6 %
		Y	4.44	65.78	18.76		35.0	
		Z	4.75	66.03	19.03		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.38	65.69	18.49	6.02	35.0	± 9.6 %
		Y	4.34	65.63	18.59		35.0	
		Z	4.64	65.84	18.85		35.0	
10311-AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.08	69.08	16.47	0.00	150.0	± 9.6 %
		Y	3.14	69.40	16.66		150.0	
		Z	3.12	68.62	16.13		150.0	
10313-AAA	iDEN 1:3	X	2.89	72.65	16.29	6.99	70.0	± 9.6 %
		Y	4.19	78.79	18.89		70.0	
		Z	4.02	76.71	18.18		70.0	
10314-AAA	iDEN 1:6	X	5.30	83.78	23.47	10.00	30.0	± 9.6 %
		Y	6.55	89.94	26.15		30.0	
		Z	6.97	88.50	25.50		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.08	63.77	15.30	0.17	150.0	± 9.6 %
		Y	1.10	64.11	15.62		150.0	
		Z	1.08	63.32	14.99		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.51	66.68	16.32	0.17	150.0	± 9.6 %
		Y	4.53	66.78	16.42		150.0	
		Z	4.64	66.54	16.30		150.0	
10317-AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.51	66.68	16.32	0.17	150.0	± 9.6 %
		Y	4.53	66.78	16.42		150.0	
		Z	4.64	66.54	16.30		150.0	
10400-AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.61	67.03	16.35	0.00	150.0	± 9.6 %
		Y	4.63	67.11	16.42		150.0	
		Z	4.76	66.86	16.27		150.0	
10401-AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.34	67.18	16.51	0.00	150.0	± 9.6 %
		Y	5.36	67.26	16.59		150.0	
		Z	5.46	67.09	16.45		150.0	

10402-AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.59	67.45	16.52	0.00	150.0	± 9.6 %
		Y	5.60	67.49	16.57		150.0	
		Z	5.71	67.42	16.48		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.38	68.75	13.54	0.00	115.0	± 9.6 %
		Y	1.49	69.81	14.11		115.0	
		Z	1.48	68.40	14.11		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.38	68.75	13.54	0.00	115.0	± 9.6 %
		Y	1.49	69.81	14.11		115.0	
		Z	1.48	68.40	14.11		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	17.35	99.43	24.90	0.00	100.0	± 9.6 %
		Y	63.25	115.82	28.80		100.0	
		Z	11.61	93.88	24.12		100.0	
10410-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.36	91.25	22.62	3.23	80.0	± 9.6 %
		Y	100.00	127.16	32.13		80.0	
		Z	100.00	125.70	32.09		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.22	14.88	0.00	150.0	± 9.6 %
		Y	1.04	63.49	15.13		150.0	
		Z	1.02	62.64	14.46		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.48	66.75	16.31	0.00	150.0	± 9.6 %
		Y	4.49	66.81	16.37		150.0	
		Z	4.59	66.53	16.22		150.0	
10417-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.48	66.75	16.31	0.00	150.0	± 9.6 %
		Y	4.49	66.81	16.37		150.0	
		Z	4.59	66.53	16.22		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.47	66.94	16.35	0.00	150.0	± 9.6 %
		Y	4.48	67.00	16.41		150.0	
		Z	4.58	66.68	16.24		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.49	66.88	16.34	0.00	150.0	± 9.6 %
		Y	4.50	66.93	16.40		150.0	
		Z	4.60	66.63	16.24		150.0	
10422-AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.60	66.86	16.35	0.00	150.0	± 9.6 %
		Y	4.61	66.91	16.41		150.0	
		Z	4.72	66.64	16.26		150.0	
10423-AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.74	67.14	16.45	0.00	150.0	± 9.6 %
		Y	4.76	67.20	16.51		150.0	
		Z	4.89	66.97	16.38		150.0	
10424-AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.67	67.10	16.43	0.00	150.0	± 9.6 %
		Y	4.68	67.15	16.49		150.0	
		Z	4.81	66.91	16.35		150.0	
10425-AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.29	67.34	16.60	0.00	150.0	± 9.6 %
		Y	5.30	67.39	16.66		150.0	
		Z	5.42	67.29	16.55		150.0	
10426-AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.31	67.43	16.64	0.00	150.0	± 9.6 %
		Y	5.32	67.48	16.70		150.0	
		Z	5.43	67.30	16.56		150.0	

10427-AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.30	67.32	16.58	0.00	150.0	± 9.6 %
		Y	5.31	67.37	16.64		150.0	
		Z	5.44	67.28	16.54		150.0	
10430-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.41	72.30	18.78	0.00	150.0	± 9.6 %
		Y	4.28	71.61	18.44		150.0	
		Z	4.35	70.84	18.35		150.0	
10431-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.12	67.35	16.27	0.00	150.0	± 9.6 %
		Y	4.14	67.43	16.34		150.0	
		Z	4.27	67.06	16.22		150.0	
10432-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.43	67.18	16.37	0.00	150.0	± 9.6 %
		Y	4.45	67.24	16.44		150.0	
		Z	4.58	66.95	16.29		150.0	
10433-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.69	67.13	16.45	0.00	150.0	± 9.6 %
		Y	4.70	67.18	16.51		150.0	
		Z	4.82	66.95	16.37		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.58	73.43	18.77	0.00	150.0	± 9.6 %
		Y	4.41	72.61	18.39		150.0	
		Z	4.46	71.72	18.35		150.0	
10435-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.84	90.24	22.26	3.23	80.0	± 9.6 %
		Y	100.00	126.90	32.00		80.0	
		Z	100.00	125.48	31.98		80.0	
10447-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.40	67.35	15.41	0.00	150.0	± 9.6 %
		Y	3.42	67.47	15.52		150.0	
		Z	3.56	67.03	15.56		150.0	
10448-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.98	67.14	16.14	0.00	150.0	± 9.6 %
		Y	4.00	67.22	16.21		150.0	
		Z	4.11	66.83	16.08		150.0	
10449-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.26	67.02	16.27	0.00	150.0	± 9.6 %
		Y	4.28	67.08	16.34		150.0	
		Z	4.38	66.77	16.19		150.0	
10450-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.47	66.91	16.31	0.00	150.0	± 9.6 %
		Y	4.48	66.96	16.37		150.0	
		Z	4.58	66.71	16.22		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.25	67.38	14.88	0.00	150.0	± 9.6 %
		Y	3.28	67.53	15.01		150.0	
		Z	3.46	67.22	15.21		150.0	
10456-AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.22	67.99	16.81	0.00	150.0	± 9.6 %
		Y	6.22	68.02	16.86		150.0	
		Z	6.28	67.84	16.71		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.78	65.43	16.02	0.00	150.0	± 9.6 %
		Y	3.79	65.48	16.08		150.0	
		Z	3.83	65.16	15.92		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.02	66.44	14.01	0.00	150.0	± 9.6 %
		Y	3.06	66.64	14.18		150.0	
		Z	3.28	66.54	14.63		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.18	65.23	15.36	0.00	150.0	± 9.6 %
		Y	4.18	65.21	15.41		150.0	
		Z	4.47	65.25	15.75		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.93	68.87	16.62	0.00	150.0	± 9.6 %
		Y	1.00	70.16	17.38		150.0	
		Z	0.88	67.06	15.60		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.32	84.19	21.37	3.29	80.0	± 9.6 %
		Y	46.98	120.39	31.74		80.0	
		Z	70.92	123.84	32.55		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.93	61.17	8.92	3.23	80.0	± 9.6 %
		Y	1.50	66.22	11.48		80.0	
		Z	4.18	75.74	15.77		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.74	3.23	80.0	± 9.6 %
		Y	0.90	60.95	8.47		80.0	
		Z	1.89	66.55	11.77		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.27	79.79	19.27	3.23	80.0	± 9.6 %
		Y	44.63	117.13	30.10		80.0	
		Z	63.16	119.86	30.88		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.65	8.58	3.23	80.0	± 9.6 %
		Y	1.28	64.64	10.73		80.0	
		Z	2.98	72.01	14.38		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.69	3.23	80.0	± 9.6 %
		Y	0.85	60.44	8.16		80.0	
		Z	1.66	65.17	11.12		80.0	
10467-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.54	80.96	19.70	3.23	80.0	± 9.6 %
		Y	60.93	121.68	31.18		80.0	
		Z	84.88	124.19	31.89		80.0	
10468-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.89	60.80	8.68	3.23	80.0	± 9.6 %
		Y	1.33	65.06	10.94		80.0	
		Z	3.21	72.86	14.71		80.0	
10469-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.69	3.23	80.0	± 9.6 %
		Y	0.85	60.46	8.17		80.0	
		Z	1.66	65.20	11.14		80.0	
10470-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.54	80.99	19.71	3.23	80.0	± 9.6 %
		Y	63.11	122.20	31.29		80.0	
		Z	86.48	124.48	31.95		80.0	
10471-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.76	8.65	3.23	80.0	± 9.6 %
		Y	1.32	64.98	10.89		80.0	
		Z	3.18	72.76	14.66		80.0	
10472-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.68	3.23	80.0	± 9.6 %
		Y	0.84	60.42	8.13		80.0	
		Z	1.65	65.15	11.10		80.0	
10473-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.52	80.93	19.68	3.23	80.0	± 9.6 %
		Y	62.71	122.07	31.26		80.0	
		Z	85.93	124.36	31.91		80.0	
10474-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.88	60.74	8.64	3.23	80.0	± 9.6 %
		Y	1.31	64.94	10.87		80.0	
		Z	3.15	72.67	14.63		80.0	
10475-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.68	3.23	80.0	± 9.6 %
		Y	0.84	60.40	8.12		80.0	
		Z	1.64	65.11	11.08		80.0	

10477-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.87	60.61	8.55	3.23	80.0	± 9.6 %
		Y	1.27	64.59	10.69		80.0	
		Z	2.97	71.99	14.36		80.0	
10478-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.83	60.00	7.67	3.23	80.0	± 9.6 %
		Y	0.84	60.37	8.09		80.0	
		Z	1.63	65.04	11.04		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.53	79.52	20.39	3.23	80.0	± 9.6 %
		Y	7.80	88.47	23.78		80.0	
		Z	5.78	82.49	22.28		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.53	72.09	15.68	3.23	80.0	± 9.6 %
		Y	6.36	79.96	18.76		80.0	
		Z	6.52	79.72	19.55		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.81	68.83	13.98	3.23	80.0	± 9.6 %
		Y	4.53	74.98	16.60		80.0	
		Z	5.48	76.73	18.13		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.20	68.90	15.09	2.23	80.0	± 9.6 %
		Y	2.93	73.22	17.16		80.0	
		Z	2.97	72.34	17.43		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.35	65.97	12.90	2.23	80.0	± 9.6 %
		Y	3.02	69.40	14.64		80.0	
		Z	4.23	73.30	17.24		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.28	65.32	12.60	2.23	80.0	± 9.6 %
		Y	2.83	68.32	14.18		80.0	
		Z	3.99	72.23	16.81		80.0	
10485-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.68	71.36	17.35	2.23	80.0	± 9.6 %
		Y	3.27	74.89	19.08		80.0	
		Z	3.17	72.95	18.56		80.0	
10486-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.64	67.61	15.00	2.23	80.0	± 9.6 %
		Y	2.99	69.69	16.14		80.0	
		Z	3.15	69.34	16.51		80.0	
10487-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.64	67.21	14.79	2.23	80.0	± 9.6 %
		Y	2.96	69.13	15.87		80.0	
		Z	3.15	68.96	16.33		80.0	
10488-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.00	70.76	18.02	2.23	80.0	± 9.6 %
		Y	3.34	72.92	19.20		80.0	
		Z	3.42	71.88	18.69		80.0	
10489-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.07	67.95	16.69	2.23	80.0	± 9.6 %
		Y	3.24	69.09	17.42		80.0	
		Z	3.37	68.53	17.27		80.0	
10490-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.16	67.82	16.63	2.23	80.0	± 9.6 %
		Y	3.32	68.90	17.33		80.0	
		Z	3.47	68.38	17.21		80.0	
10491-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.29	69.57	17.67	2.23	80.0	± 9.6 %
		Y	3.53	71.04	18.54		80.0	
		Z	3.67	70.46	18.17		80.0	
10492-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.43	67.31	16.78	2.23	80.0	± 9.6 %
		Y	3.55	68.11	17.34		80.0	
		Z	3.72	67.80	17.20		80.0	

10493-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	67.21	16.74	2.23	80.0	± 9.6 %
		Y	3.62	67.97	17.27		80.0	
		Z	3.79	67.69	17.16		80.0	
10494-AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.52	70.87	18.10	2.23	80.0	± 9.6 %
		Y	3.84	72.64	19.08		80.0	
		Z	3.98	72.03	18.67		80.0	
10495-AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.45	67.59	16.97	2.23	80.0	± 9.6 %
		Y	3.58	68.42	17.54		80.0	
		Z	3.75	68.20	17.40		80.0	
10496-AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.54	67.39	16.91	2.23	80.0	± 9.6 %
		Y	3.65	68.15	17.44		80.0	
		Z	3.83	67.94	17.32		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.43	63.58	11.40	2.23	80.0	± 9.6 %
		Y	1.80	66.67	13.09		80.0	
		Z	2.27	68.74	14.99		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.24	60.00	8.33	2.23	80.0	± 9.6 %
		Y	1.23	60.00	8.51		80.0	
		Z	1.81	63.14	11.27		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.26	60.00	8.18	2.23	80.0	± 9.6 %
		Y	1.24	60.00	8.34		80.0	
		Z	1.76	62.56	10.83		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.78	70.93	17.56	2.23	80.0	± 9.6 %
		Y	3.23	73.75	19.01		80.0	
		Z	3.21	72.13	18.47		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.86	67.97	15.75	2.23	80.0	± 9.6 %
		Y	3.13	69.65	16.71		80.0	
		Z	3.25	69.01	16.80		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.90	67.83	15.61	2.23	80.0	± 9.6 %
		Y	3.18	69.45	16.55		80.0	
		Z	3.31	68.90	16.69		80.0	
10503-AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.96	70.56	17.92	2.23	80.0	± 9.6 %
		Y	3.29	72.71	19.10		80.0	
		Z	3.38	71.68	18.59		80.0	
10504-AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.05	67.84	16.62	2.23	80.0	± 9.6 %
		Y	3.22	69.00	17.36		80.0	
		Z	3.35	68.44	17.21		80.0	
10505-AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.14	67.73	16.57	2.23	80.0	± 9.6 %
		Y	3.31	68.81	17.27		80.0	
		Z	3.45	68.28	17.16		80.0	
10506-AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.49	70.73	18.03	2.23	80.0	± 9.6 %
		Y	3.81	72.49	19.00		80.0	
		Z	3.95	71.88	18.59		80.0	
10507-AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.44	67.53	16.93	2.23	80.0	± 9.6 %
		Y	3.56	68.36	17.50		80.0	
		Z	3.73	68.13	17.36		80.0	

10508-AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.53	67.32	16.87	2.23	80.0	± 9.6 %
		Y	3.64	68.08	17.40		80.0	
		Z	3.82	67.87	17.27		80.0	
10509-AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.90	69.82	17.65	2.23	80.0	± 9.6 %
		Y	4.14	71.06	18.38		80.0	
		Z	4.30	70.72	18.09		80.0	
10510-AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.92	67.34	16.97	2.23	80.0	± 9.6 %
		Y	4.03	67.99	17.44		80.0	
		Z	4.22	67.93	17.34		80.0	
10511-AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.99	67.15	16.93	2.23	80.0	± 9.6 %
		Y	4.09	67.75	17.36		80.0	
		Z	4.28	67.68	17.27		80.0	
10512-AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.00	71.09	18.05	2.23	80.0	± 9.6 %
		Y	4.33	72.71	18.93		80.0	
		Z	4.49	72.31	18.60		80.0	
10513-AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.80	67.50	17.05	2.23	80.0	± 9.6 %
		Y	3.92	68.21	17.54		80.0	
		Z	4.11	68.20	17.45		80.0	
10514-AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.85	67.16	16.95	2.23	80.0	± 9.6 %
		Y	3.95	67.80	17.41		80.0	
		Z	4.13	67.78	17.32		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.99	63.41	14.95	0.00	150.0	± 9.6 %
		Y	1.00	63.71	15.22		150.0	
		Z	0.98	62.80	14.50		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.63	71.18	17.99	0.00	150.0	± 9.6 %
		Y	0.75	74.25	19.60		150.0	
		Z	0.56	68.07	16.15		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.84	65.39	15.66	0.00	150.0	± 9.6 %
		Y	0.87	66.03	16.14		150.0	
		Z	0.82	64.43	14.97		150.0	
10518-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.47	66.84	16.30	0.00	150.0	± 9.6 %
		Y	4.48	66.90	16.36		150.0	
		Z	4.58	66.60	16.20		150.0	
10519-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.63	67.03	16.39	0.00	150.0	± 9.6 %
		Y	4.64	67.09	16.46		150.0	
		Z	4.77	66.85	16.33		150.0	
10520-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.49	66.98	16.32	0.00	150.0	± 9.6 %
		Y	4.50	67.04	16.38		150.0	
		Z	4.62	66.81	16.25		150.0	
10521-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.42	66.97	16.30	0.00	150.0	± 9.6 %
		Y	4.43	67.03	16.37		150.0	
		Z	4.55	66.80	16.23		150.0	
10522-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.48	67.10	16.40	0.00	150.0	± 9.6 %
		Y	4.49	67.16	16.47		150.0	
		Z	4.61	66.88	16.31		150.0	

10523-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.38	67.02	16.28	0.00	150.0	± 9.6 %
		Y	4.40	67.08	16.35		150.0	
		Z	4.49	66.74	16.15		150.0	
10524-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.42	67.02	16.37	0.00	150.0	± 9.6 %
		Y	4.44	67.08	16.44		150.0	
		Z	4.56	66.80	16.28		150.0	
10525-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.44	66.11	15.98	0.00	150.0	± 9.6 %
		Y	4.45	66.16	16.04		150.0	
		Z	4.54	65.84	15.87		150.0	
10526-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.58	66.42	16.11	0.00	150.0	± 9.6 %
		Y	4.59	66.48	16.17		150.0	
		Z	4.71	66.22	16.01		150.0	
10527-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.51	66.39	16.05	0.00	150.0	± 9.6 %
		Y	4.52	66.45	16.12		150.0	
		Z	4.63	66.17	15.95		150.0	
10528-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.52	66.40	16.08	0.00	150.0	± 9.6 %
		Y	4.54	66.46	16.15		150.0	
		Z	4.65	66.19	15.99		150.0	
10529-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.52	66.40	16.08	0.00	150.0	± 9.6 %
		Y	4.54	66.46	16.15		150.0	
		Z	4.65	66.19	15.99		150.0	
10531-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.50	66.46	16.08	0.00	150.0	± 9.6 %
		Y	4.51	66.53	16.14		150.0	
		Z	4.64	66.30	16.00		150.0	
10532-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.37	66.32	16.01	0.00	150.0	± 9.6 %
		Y	4.39	66.39	16.08		150.0	
		Z	4.50	66.15	15.93		150.0	
10533-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.53	66.48	16.08	0.00	150.0	± 9.6 %
		Y	4.54	66.54	16.15		150.0	
		Z	4.66	66.23	15.97		150.0	
10534-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.07	66.45	16.14	0.00	150.0	± 9.6 %
		Y	5.09	66.50	16.19		150.0	
		Z	5.19	66.33	16.06		150.0	
10535-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.13	66.62	16.22	0.00	150.0	± 9.6 %
		Y	5.14	66.67	16.27		150.0	
		Z	5.25	66.51	16.14		150.0	
10536-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.01	66.59	16.19	0.00	150.0	± 9.6 %
		Y	5.03	66.64	16.24		150.0	
		Z	5.12	66.45	16.09		150.0	
10537-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.07	66.55	16.17	0.00	150.0	± 9.6 %
		Y	5.08	66.59	16.22		150.0	
		Z	5.18	66.42	16.08		150.0	
10538-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.14	66.54	16.20	0.00	150.0	± 9.6 %
		Y	5.15	66.59	16.25		150.0	
		Z	5.27	66.46	16.14		150.0	
10540-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.07	66.52	16.21	0.00	150.0	± 9.6 %
		Y	5.08	66.57	16.26		150.0	
		Z	5.20	66.47	16.16		150.0	

10541-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.05	66.41	16.14	0.00	150.0	± 9.6 %
		Y	5.06	66.46	16.20		150.0	
		Z	5.17	66.33	16.08		150.0	
10542-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.21	66.51	16.21	0.00	150.0	± 9.6 %
		Y	5.22	66.55	16.26		150.0	
		Z	5.33	66.41	16.13		150.0	
10543-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.27	66.52	16.24	0.00	150.0	± 9.6 %
		Y	5.28	66.56	16.29		150.0	
		Z	5.41	66.45	16.18		150.0	
10544-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.40	66.53	16.13	0.00	150.0	± 9.6 %
		Y	5.42	66.58	16.18		150.0	
		Z	5.49	66.45	16.06		150.0	
10545-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.59	66.98	16.30	0.00	150.0	± 9.6 %
		Y	5.60	67.03	16.36		150.0	
		Z	5.69	66.88	16.22		150.0	
10546-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.45	66.68	16.17	0.00	150.0	± 9.6 %
		Y	5.46	66.73	16.22		150.0	
		Z	5.56	66.67	16.13		150.0	
10547-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.52	66.76	16.20	0.00	150.0	± 9.6 %
		Y	5.53	66.80	16.25		150.0	
		Z	5.63	66.71	16.14		150.0	
10548-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.72	67.56	16.57	0.00	150.0	± 9.6 %
		Y	5.74	67.62	16.64		150.0	
		Z	5.92	67.73	16.62		150.0	
10550-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.50	66.81	16.24	0.00	150.0	± 9.6 %
		Y	5.51	66.85	16.30		150.0	
		Z	5.59	66.68	16.14		150.0	
10551-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.47	66.72	16.16	0.00	150.0	± 9.6 %
		Y	5.48	66.77	16.22		150.0	
		Z	5.59	66.72	16.13		150.0	
10552-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.41	66.62	16.12	0.00	150.0	± 9.6 %
		Y	5.42	66.66	16.16		150.0	
		Z	5.50	66.51	16.03		150.0	
10553-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.48	66.60	16.14	0.00	150.0	± 9.6 %
		Y	5.49	66.65	16.19		150.0	
		Z	5.59	66.56	16.08		150.0	
10554-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.82	66.88	16.21	0.00	150.0	± 9.6 %
		Y	5.83	66.92	16.26		150.0	
		Z	5.90	66.82	16.15		150.0	
10555-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.94	67.15	16.33	0.00	150.0	± 9.6 %
		Y	5.95	67.20	16.38		150.0	
		Z	6.03	67.13	16.28		150.0	
10556-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.96	67.23	16.36	0.00	150.0	± 9.6 %
		Y	5.98	67.27	16.41		150.0	
		Z	6.05	67.17	16.30		150.0	
10557-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.92	67.10	16.31	0.00	150.0	± 9.6 %
		Y	5.93	67.14	16.36		150.0	
		Z	6.02	67.08	16.27		150.0	

10558-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.96	67.24	16.39	0.00	150.0	± 9.6 %
		Y	5.97	67.29	16.45		150.0	
		Z	6.07	67.25	16.37		150.0	
10560-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.95	67.10	16.36	0.00	150.0	± 9.6 %
		Y	5.97	67.14	16.41		150.0	
		Z	6.06	67.09	16.33		150.0	
10561-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.89	67.09	16.39	0.00	150.0	± 9.6 %
		Y	5.90	67.14	16.45		150.0	
		Z	5.99	67.06	16.35		150.0	
10562-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.97	67.34	16.52	0.00	150.0	± 9.6 %
		Y	5.98	67.39	16.57		150.0	
		Z	6.12	67.47	16.55		150.0	
10563-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.05	67.24	16.43	0.00	150.0	± 9.6 %
		Y	6.06	67.29	16.49		150.0	
		Z	6.41	67.91	16.73		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.78	66.85	16.41	0.46	150.0	± 9.6 %
		Y	4.80	66.93	16.49		150.0	
		Z	4.91	66.67	16.35		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.99	67.29	16.74	0.46	150.0	± 9.6 %
		Y	5.01	67.35	16.80		150.0	
		Z	5.14	67.15	16.69		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.83	67.11	16.54	0.46	150.0	± 9.6 %
		Y	4.84	67.18	16.62		150.0	
		Z	4.98	66.99	16.50		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.87	67.55	16.94	0.46	150.0	± 9.6 %
		Y	4.87	67.57	16.98		150.0	
		Z	5.01	67.40	16.87		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.73	66.85	16.28	0.46	150.0	± 9.6 %
		Y	4.75	66.97	16.39		150.0	
		Z	4.88	66.73	16.25		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.84	67.72	17.05	0.46	150.0	± 9.6 %
		Y	4.85	67.73	17.08		150.0	
		Z	4.96	67.48	16.93		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.86	67.53	16.95	0.46	150.0	± 9.6 %
		Y	4.87	67.55	16.99		150.0	
		Z	5.00	67.32	16.86		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.13	63.98	15.42	0.46	130.0	± 9.6 %
		Y	1.15	64.46	15.85		130.0	
		Z	1.15	63.75	15.28		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.14	64.53	15.78	0.46	130.0	± 9.6 %
		Y	1.16	65.03	16.22		130.0	
		Z	1.16	64.27	15.61		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.37	80.51	21.92	0.46	130.0	± 9.6 %
		Y	2.18	89.24	25.44		130.0	
		Z	1.24	77.68	20.60		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.21	70.03	18.74	0.46	130.0	± 9.6 %
		Y	1.26	70.93	19.36		130.0	
		Z	1.21	69.23	18.24		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.55	66.59	16.41	0.46	130.0	± 9.6 %
		Y	4.57	66.69	16.52		130.0	
		Z	4.69	66.45	16.40		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.58	66.78	16.50	0.46	130.0	± 9.6 %
		Y	4.60	66.87	16.60		130.0	
		Z	4.71	66.62	16.47		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.76	67.04	16.65	0.46	130.0	± 9.6 %
		Y	4.78	67.12	16.75		130.0	
		Z	4.92	66.93	16.65		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.67	67.21	16.78	0.46	130.0	± 9.6 %
		Y	4.68	67.27	16.85		130.0	
		Z	4.82	67.09	16.76		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.41	66.37	16.00	0.46	130.0	± 9.6 %
		Y	4.44	66.52	16.15		130.0	
		Z	4.58	66.34	16.04		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.45	66.43	16.02	0.46	130.0	± 9.6 %
		Y	4.49	66.59	16.18		130.0	
		Z	4.62	66.36	16.05		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.57	67.26	16.72	0.46	130.0	± 9.6 %
		Y	4.58	67.33	16.82		130.0	
		Z	4.71	67.12	16.69		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.34	66.11	15.76	0.46	130.0	± 9.6 %
		Y	4.38	66.30	15.94		130.0	
		Z	4.52	66.09	15.82		130.0	
10583-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.55	66.59	16.41	0.46	130.0	± 9.6 %
		Y	4.57	66.69	16.52		130.0	
		Z	4.69	66.45	16.40		130.0	
10584-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.58	66.78	16.50	0.46	130.0	± 9.6 %
		Y	4.60	66.87	16.60		130.0	
		Z	4.71	66.62	16.47		130.0	
10585-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.76	67.04	16.65	0.46	130.0	± 9.6 %
		Y	4.78	67.12	16.75		130.0	
		Z	4.92	66.93	16.65		130.0	
10586-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.67	67.21	16.78	0.46	130.0	± 9.6 %
		Y	4.68	67.27	16.85		130.0	
		Z	4.82	67.09	16.76		130.0	
10587-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.41	66.37	16.00	0.46	130.0	± 9.6 %
		Y	4.44	66.52	16.15		130.0	
		Z	4.58	66.34	16.04		130.0	
10588-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.45	66.43	16.02	0.46	130.0	± 9.6 %
		Y	4.49	66.59	16.18		130.0	
		Z	4.62	66.36	16.05		130.0	
10589-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.57	67.26	16.72	0.46	130.0	± 9.6 %
		Y	4.58	67.33	16.82		130.0	
		Z	4.71	67.12	16.69		130.0	
10590-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.34	66.11	15.76	0.46	130.0	± 9.6 %
		Y	4.38	66.30	15.94		130.0	
		Z	4.52	66.09	15.82		130.0	

10591-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.71	66.67	16.53	0.46	130.0	± 9.6 %
		Y	4.73	66.75	16.62		130.0	
		Z	4.84	66.53	16.51		130.0	
10592-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.84	66.99	16.66	0.46	130.0	± 9.6 %
		Y	4.86	67.07	16.75		130.0	
		Z	5.00	66.87	16.64		130.0	
10593-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.76	66.86	16.52	0.46	130.0	± 9.6 %
		Y	4.78	66.96	16.62		130.0	
		Z	4.92	66.77	16.52		130.0	
10594-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.82	67.05	16.69	0.46	130.0	± 9.6 %
		Y	4.84	67.13	16.78		130.0	
		Z	4.97	66.94	16.68		130.0	
10595-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.78	67.01	16.59	0.46	130.0	± 9.6 %
		Y	4.80	67.10	16.69		130.0	
		Z	4.94	66.89	16.57		130.0	
10596-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.71	66.98	16.58	0.46	130.0	± 9.6 %
		Y	4.73	67.08	16.69		130.0	
		Z	4.87	66.88	16.57		130.0	
10597-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.66	66.85	16.44	0.46	130.0	± 9.6 %
		Y	4.69	66.96	16.56		130.0	
		Z	4.82	66.78	16.45		130.0	
10598-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.65	67.11	16.73	0.46	130.0	± 9.6 %
		Y	4.67	67.18	16.81		130.0	
		Z	4.81	67.03	16.73		130.0	
10599-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.39	67.16	16.75	0.46	130.0	± 9.6 %
		Y	5.40	67.23	16.84		130.0	
		Z	5.52	67.11	16.73		130.0	
10600-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.51	67.57	16.93	0.46	130.0	± 9.6 %
		Y	5.53	67.67	17.03		130.0	
		Z	5.67	67.58	16.94		130.0	
10601-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.40	67.32	16.82	0.46	130.0	± 9.6 %
		Y	5.42	67.41	16.92		130.0	
		Z	5.55	67.30	16.82		130.0	
10602-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.53	67.48	16.82	0.46	130.0	± 9.6 %
		Y	5.55	67.58	16.92		130.0	
		Z	5.64	67.31	16.73		130.0	
10603-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.60	67.77	17.10	0.46	130.0	± 9.6 %
		Y	5.62	67.84	17.19		130.0	
		Z	5.72	67.63	17.03		130.0	
10604-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.48	67.44	16.92	0.46	130.0	± 9.6 %
		Y	5.50	67.51	17.01		130.0	
		Z	5.52	67.07	16.74		130.0	
10605-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.51	67.48	16.93	0.46	130.0	± 9.6 %
		Y	5.53	67.59	17.04		130.0	
		Z	5.64	67.42	16.91		130.0	
10606-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.24	66.77	16.43	0.46	130.0	± 9.6 %
		Y	5.27	66.88	16.54		130.0	
		Z	5.39	66.79	16.45		130.0	

10607-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.56	66.02	16.17	0.46	130.0	± 9.6 %
		Y	4.58	66.11	16.27		130.0	
		Z	4.68	65.84	16.13		130.0	
10608-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.71	66.38	16.33	0.46	130.0	± 9.6 %
		Y	4.74	66.48	16.43		130.0	
		Z	4.87	66.25	16.30		130.0	
10609-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.60	66.21	16.15	0.46	130.0	± 9.6 %
		Y	4.63	66.32	16.26		130.0	
		Z	4.75	66.09	16.13		130.0	
10610-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.66	66.38	16.32	0.46	130.0	± 9.6 %
		Y	4.68	66.48	16.42		130.0	
		Z	4.81	66.25	16.30		130.0	
10611-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.57	66.17	16.16	0.46	130.0	± 9.6 %
		Y	4.59	66.28	16.27		130.0	
		Z	4.72	66.06	16.14		130.0	
10612-AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.57	66.31	16.20	0.46	130.0	± 9.6 %
		Y	4.59	66.44	16.32		130.0	
		Z	4.73	66.20	16.18		130.0	
10613-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.56	66.14	16.05	0.46	130.0	± 9.6 %
		Y	4.59	66.27	16.18		130.0	
		Z	4.73	66.09	16.06		130.0	
10614-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.53	66.39	16.32	0.46	130.0	± 9.6 %
		Y	4.55	66.47	16.42		130.0	
		Z	4.68	66.29	16.31		130.0	
10615-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.56	65.98	15.91	0.46	130.0	± 9.6 %
		Y	4.59	66.13	16.05		130.0	
		Z	4.72	65.87	15.91		130.0	
10616-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.20	66.41	16.36	0.46	130.0	± 9.6 %
		Y	5.22	66.48	16.45		130.0	
		Z	5.34	66.37	16.34		130.0	
10617-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.27	66.60	16.43	0.46	130.0	± 9.6 %
		Y	5.29	66.69	16.53		130.0	
		Z	5.41	66.54	16.40		130.0	
10618-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.17	66.64	16.47	0.46	130.0	± 9.6 %
		Y	5.19	66.72	16.55		130.0	
		Z	5.29	66.54	16.42		130.0	
10619-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.17	66.40	16.28	0.46	130.0	± 9.6 %
		Y	5.19	66.49	16.38		130.0	
		Z	5.31	66.37	16.27		130.0	
10620-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.25	66.42	16.34	0.46	130.0	± 9.6 %
		Y	5.27	66.52	16.44		130.0	
		Z	5.40	66.41	16.34		130.0	
10621-AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.27	66.59	16.55	0.46	130.0	± 9.6 %
		Y	5.28	66.65	16.62		130.0	
		Z	5.40	66.53	16.52		130.0	
10622-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.27	66.70	16.60	0.46	130.0	± 9.6 %
		Y	5.28	66.78	16.68		130.0	
		Z	5.41	66.70	16.60		130.0	

10623-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.14	66.21	16.21	0.46	130.0	± 9.6 %
		Y	5.16	66.31	16.32		130.0	
		Z	5.28	66.20	16.22		130.0	
10624-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.34	66.45	16.40	0.46	130.0	± 9.6 %
		Y	5.36	66.54	16.49		130.0	
		Z	5.48	66.42	16.39		130.0	
10625-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.55	66.97	16.72	0.46	130.0	± 9.6 %
		Y	5.57	67.07	16.81		130.0	
		Z	5.88	67.48	16.97		130.0	
10626-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.53	66.46	16.32	0.46	130.0	± 9.6 %
		Y	5.54	66.54	16.40		130.0	
		Z	5.63	66.43	16.30		130.0	
10627-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.77	67.07	16.59	0.46	130.0	± 9.6 %
		Y	5.79	67.16	16.68		130.0	
		Z	5.88	67.02	16.56		130.0	
10628-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.53	66.46	16.22	0.46	130.0	± 9.6 %
		Y	5.55	66.56	16.32		130.0	
		Z	5.67	66.54	16.25		130.0	
10629-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.62	66.57	16.27	0.46	130.0	± 9.6 %
		Y	5.64	66.67	16.37		130.0	
		Z	5.76	66.64	16.29		130.0	
10630-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.96	67.80	16.88	0.46	130.0	± 9.6 %
		Y	5.98	67.92	17.00		130.0	
		Z	6.25	68.26	17.09		130.0	
10631-AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.89	67.74	17.06	0.46	130.0	± 9.6 %
		Y	5.91	67.78	17.11		130.0	
		Z	6.11	67.97	17.16		130.0	
10632-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.75	67.20	16.81	0.46	130.0	± 9.6 %
		Y	5.76	67.24	16.86		130.0	
		Z	5.85	67.08	16.73		130.0	
10633-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.60	66.69	16.37	0.46	130.0	± 9.6 %
		Y	5.62	66.77	16.45		130.0	
		Z	5.73	66.69	16.36		130.0	
10634-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.58	66.71	16.44	0.46	130.0	± 9.6 %
		Y	5.60	66.78	16.51		130.0	
		Z	5.72	66.73	16.44		130.0	
10635-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.44	65.95	15.77	0.46	130.0	± 9.6 %
		Y	5.47	66.09	15.91		130.0	
		Z	5.60	66.05	15.82		130.0	
10636-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.96	66.83	16.41	0.46	130.0	± 9.6 %
		Y	5.97	66.90	16.49		130.0	
		Z	6.05	66.82	16.40		130.0	
10637-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.10	67.19	16.58	0.46	130.0	± 9.6 %
		Y	6.12	67.27	16.66		130.0	
		Z	6.21	67.21	16.58		130.0	
10638-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.10	67.17	16.54	0.46	130.0	± 9.6 %
		Y	6.12	67.25	16.63		130.0	
		Z	6.21	67.17	16.54		130.0	

10639-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.07	67.09	16.55	0.46	130.0	± 9.6 %
		Y	6.09	67.17	16.63		130.0	
		Z	6.19	67.14	16.56		130.0	
10640-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.06	67.06	16.47	0.46	130.0	± 9.6 %
		Y	6.08	67.16	16.57		130.0	
		Z	6.19	67.15	16.51		130.0	
10641-AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.13	67.06	16.49	0.46	130.0	± 9.6 %
		Y	6.15	67.15	16.59		130.0	
		Z	6.23	67.02	16.46		130.0	
10642-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.16	67.29	16.78	0.46	130.0	± 9.6 %
		Y	6.17	67.34	16.84		130.0	
		Z	6.28	67.31	16.78		130.0	
10643-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.00	66.97	16.51	0.46	130.0	± 9.6 %
		Y	6.02	67.06	16.61		130.0	
		Z	6.11	66.97	16.50		130.0	
10644-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.09	67.26	16.67	0.46	130.0	± 9.6 %
		Y	6.12	67.36	16.77		130.0	
		Z	6.29	67.52	16.80		130.0	
10645-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.23	67.33	16.67	0.46	130.0	± 9.6 %
		Y	6.26	67.42	16.77		130.0	
		Z	6.72	68.38	17.18		130.0	
10646-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	7.97	91.85	31.39	9.30	60.0	± 9.6 %
		Y	11.74	104.28	36.86		60.0	
		Z	11.88	99.49	34.28		60.0	
10647-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	7.13	89.84	30.79	9.30	60.0	± 9.6 %
		Y	9.93	100.75	35.82		60.0	
		Z	10.62	97.47	33.72		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.64	63.39	10.24	0.00	150.0	± 9.6 %
		Y	0.67	63.88	10.62		150.0	
		Z	0.72	63.48	11.02		150.0	

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

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

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

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

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

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	750	750	835	835	1750	1750	1900	1900	2450	2450	5200-5800	5200-5800
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Ingredients (% by weight)												
Bactericide	See page 2-3	See page 2	0.1	0.1					See page 4		See page 5	
DGBE					47	31	44.92	29.44		26.7		
HEC			1	1								
NaCl			1.45	0.94	0.4	0.2	0.18	0.39		0.1		
Sucrose			57	44.9								
Polysorbate (Tween) 80												20
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2		80

FCC ID: A3LSMN960KOR



SAR EVALUATION REPORT



Approved by:
Quality Manager

Test Dates:
06/21/18 – 06/30/18

DUT Type:
Portable Handset

APPENDIX D:
Page 1 of 5

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

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

Figure D-1

Composition of 750 MHz Head and Body Tissue Equivalent Matter

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

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Measurement Certificate / Material Test

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

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

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

Target Parameters

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

Test Condition

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

Additional Information

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

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

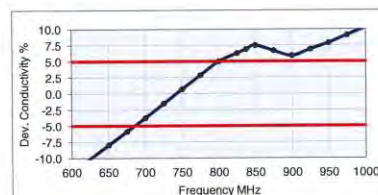
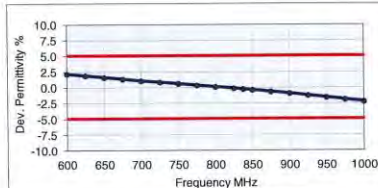


Figure D-2

750MHz Body Tissue Equivalent Matter

FCC ID: A3LSMN960KOR		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 06/21/18 – 06/30/18	DUT Type: Portable Handset			APPENDIX D: Page 2 of 5

Measurement Certificate / Material Test

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

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

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

Target Parameters

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

Test Condition

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

Additional Information

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

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

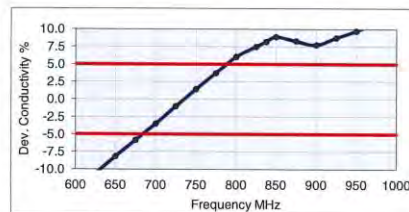
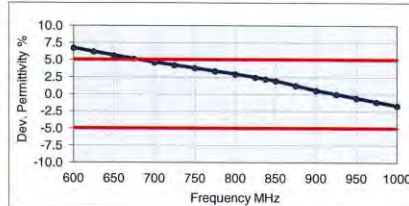


Figure D-3
750MHz Head Tissue Equivalent Matter

FCC ID: A3LSMN960KOR		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 06/21/18 – 06/30/18	DUT Type: Portable Handset			APPENDIX D: Page 3 of 5

3 Composition / Information on ingredients

The item is composed of the following ingredients:

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

Safety relevant ingredients:

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

Figure D-4
Composition of 2.4 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.

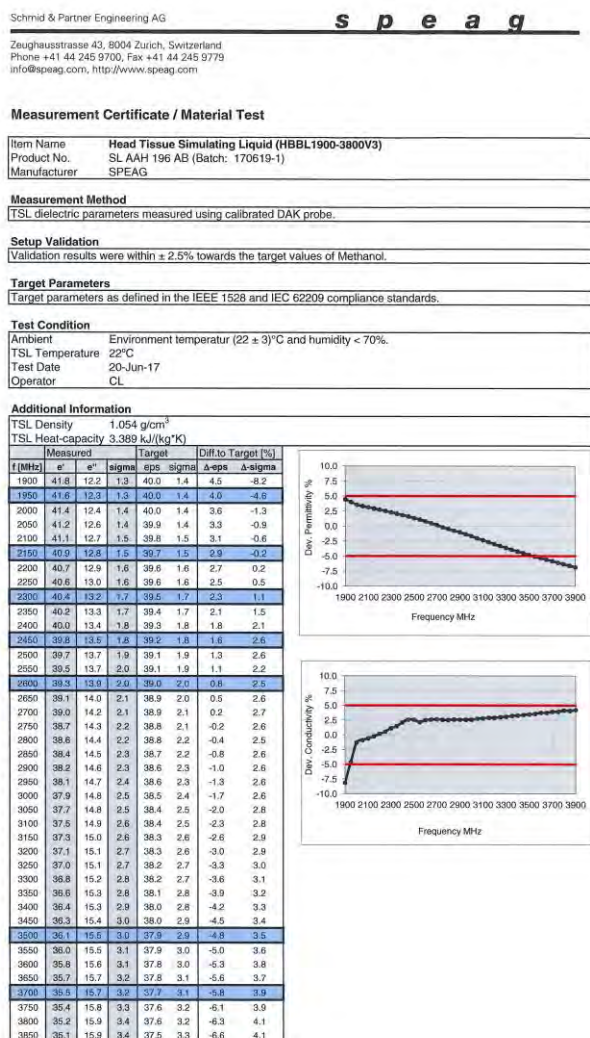


Figure D-5
2.4 GHz Head Tissue Equivalent Matter

FCC ID: A3LSMN960KOR		SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 06/21/18 – 06/30/18	DUT Type: Portable Handset			APPENDIX D: Page 4 of 5

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

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

Figure D-6

Composition of 5 GHz Head Tissue Equivalent Matter

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

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Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBBL3500-5800V5)
Product No.	SL AAH 502 AG (Batch: 170613-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

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

Target Parameters

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

Test Condition

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

Additional Information

TSL Density	0.985 g/cm ³
TSL Heat-capacity	3.383 kJ/(kg*K)

f [MHz]	ε'	ε''	sigma	ops	sigma	Δ-eps	Δ-sigma
3400	38.6	15.03	2.84	38.0	2.81	1.5	1.1
3500	38.5	15.00	2.92	37.9	2.91	1.5	0.3
3600	38.3	14.98	3.00	37.8	3.02	1.3	-0.5
3700	38.2	14.96	3.08	37.7	3.12	1.3	-1.2
3800	38.1	14.96	3.16	37.6	3.22	1.4	-1.9
3900	38.0	14.95	3.24	37.5	3.32	1.4	-2.5
4000	37.9	14.95	3.33	37.4	3.43	1.5	-2.8
4100	37.8	14.96	3.41	37.2	3.53	1.5	-3.3
4200	37.6	15.00	3.50	37.1	3.63	1.3	-3.6
4300	37.5	15.05	3.60	37.0	3.73	1.3	-3.5
4400	37.4	15.11	3.70	36.9	3.84	1.4	-3.5
4500	37.2	15.18	3.80	36.8	3.94	1.1	-3.5
4600	37.1	15.24	3.90	36.7	4.04	1.2	-3.5
4700	37.0	15.29	4.00	36.6	4.14	1.2	-3.4
4800	36.8	15.35	4.10	36.4	4.25	1.0	-3.4
4900	36.7	15.38	4.19	36.3	4.35	1.0	-3.6
5000	36.6	15.39	4.24	36.3	4.40	0.9	-3.6
5100	36.5	15.42	4.29	36.2	4.45	0.8	-3.6
5200	36.5	15.43	4.34	36.2	4.50	0.9	-3.6
5300	36.4	15.46	4.39	36.1	4.55	0.8	-3.6
5400	36.3	15.48	4.43	36.0	4.60	0.7	-3.8
5500	36.2	15.50	4.48	36.0	4.66	0.6	-3.9
5600	36.1	15.53	4.54	35.9	4.71	0.5	-3.5
5700	36.1	15.55	4.58	35.9	4.76	0.6	-3.7
5800	36.0	15.56	4.63	35.8	4.81	0.5	-3.7
5900	35.9	15.57	4.68	35.8	4.86	0.4	-3.7
6000	35.9	15.59	4.73	35.7	4.91	0.6	-3.7
6100	35.8	15.61	4.78	35.6	4.96	0.4	-3.7
6200	35.7	15.65	4.83	35.6	5.01	0.3	-3.7
6300	35.6	15.66	4.88	35.5	5.07	0.2	-3.7
6400	35.6	15.70	4.93	35.5	5.12	0.4	-3.6
6500	35.5	15.72	4.98	35.4	5.17	0.2	-3.6
6600	35.4	15.76	5.04	35.4	5.22	0.1	-3.4
6700	35.4	15.78	5.09	35.3	5.27	0.3	-3.4
6800	35.3	15.81	5.14	35.3	5.34	0.0	-3.7
6900	35.3	15.82	5.19	35.3	5.40	0.0	-3.9

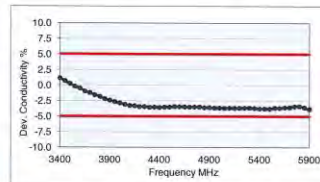
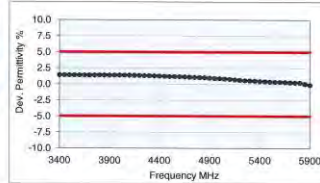


Figure D-7

5GHz 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 – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT	COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(ϵ_r)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
E	750	3/11/2018	3213	ES3DV3	750	Head	0.890	40.788	PASS	PASS	PASS	N/A	N/A
E	835	3/5/2018	3213	ES3DV3	835	Head	0.925	43.335	PASS	PASS	PASS	GMSK	PASS
G	1750	8/31/2017	3332	ES3DV3	1750	Head	1.395	38.864	PASS	PASS	PASS	N/A	N/A
E	1900	5/22/2018	3213	ES3DV3	1900	Head	1.447	38.909	PASS	PASS	PASS	GMSK	PASS
G	2450	10/16/2017	3332	ES3DV3	2450	Head	1.880	38.615	PASS	PASS	PASS	OFDM/TDD	PASS
G	2600	10/16/2017	3332	ES3DV3	2600	Head	2.051	38.039	PASS	PASS	PASS	TDD	PASS
H	5250	1/31/2018	3589	EX3DV4	5250	Head	4.516	36.066	PASS	PASS	PASS	OFDM	N/A
H	5600	1/31/2018	3589	EX3DV4	5600	Head	4.869	35.597	PASS	PASS	PASS	OFDM	N/A
H	5750	1/31/2018	3589	EX3DV4	5750	Head	5.112	35.351	PASS	PASS	PASS	OFDM	N/A
J	750	6/25/2018	3914	EX3DV4	750	Body	0.987	53.645	PASS	PASS	PASS	N/A	N/A
H	835	8/31/2017	7410	EX3DV4	835	Body	0.992	53.254	PASS	PASS	PASS	GMSK	PASS
G	1750	8/31/2017	3332	ES3DV3	1750	Body	1.532	51.024	PASS	PASS	PASS	N/A	N/A
I	1900	6/18/2018	7406	EX3DV4	1900	Body	1.575	51.579	PASS	PASS	PASS	GMSK	PASS
K	2450	4/3/2018	3319	ES3DV3	2450	Body	2.043	51.130	PASS	PASS	PASS	OFDM/TDD	PASS
K	2600	4/3/2018	3319	ES3DV3	2600	Body	2.225	50.665	PASS	PASS	PASS	TDD	PASS
D	5250	6/11/2018	7357	EX3DV4	5250	Body	5.529	48.096	PASS	PASS	PASS	OFDM	N/A
D	5600	6/11/2018	7357	EX3DV4	5600	Body	6.007	47.521	PASS	PASS	PASS	OFDM	N/A
D	5750	6/11/2018	7357	EX3DV4	5750	Body	6.214	47.275	PASS	PASS	PASS	OFDM	N/A

Table E-2
SAR System Validation Summary – 10g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT	COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(ϵ_r)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
G	1750	8/31/2017	3332	ES3DV3	1750	Body	1.532	51.024	PASS	PASS	PASS	N/A	N/A
I	1900	6/18/2018	7406	EX3DV4	1900	Body	1.575	51.579	PASS	PASS	PASS	GMSK	PASS
K	2600	4/3/2018	3319	ES3DV3	2600	Body	2.225	50.665	PASS	PASS	PASS	TDD	PASS
D	5250	6/11/2018	7357	EX3DV4	5250	Body	5.529	48.096	PASS	PASS	PASS	OFDM	N/A
D	5600	6/11/2018	7357	EX3DV4	5600	Body	6.007	47.521	PASS	PASS	PASS	OFDM	N/A
D	5750	6/11/2018	7357	EX3DV4	5750	Body	6.214	47.275	PASS	PASS	PASS	OFDM	N/A

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

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APPENDIX G: POWER REDUCTION VERIFICATION

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

This device additionally supports an antenna disabling mechanism. This mechanism was evaluated in Section 1.5.

1.1 Power Verification Procedure

The power verification was performed according to the following procedure:

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

1.2 Distance Verification Procedure

The distance verification procedure was performed according to the following procedure:

1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom.
2. The device was moved toward and away from the phantom to determine the distance at which the mechanism triggers and the output power is reduced, per KDB Publication 616217 D04v01r02 and FCC Guidance. Each applicable test position was evaluated. The distances were confirmed to be the same or larger (more conservative) than the minimum distances provided by the manufacturer.
3. Steps 1 and 2 were repeated for low, mid, and high bands, as appropriate (see note below Table 1-2 for more details).
4. Steps 1 through 3 were repeated for all distance-based power reduction mechanisms.

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1.3 Main Antenna Verification Summary

Table G-1
Power Measurement Verification for Main Antenna

Mechanism(s)	Mode/Band	Conducted Power (dBm)		
		Un-triggered (Max)	Mechanism #1 (Reduced)	Mechanism #2 (Reduced)
Hotspot On	UMTS B4	22.95	20.42	
Hotspot On	UMTS B2	22.63	20.16	
Hotspot On	LTE B4	22.77	19.78	
Hotspot On	LTE B66	22.22	20.25	
Hotspot On	LTE B2	22.07	19.53	
Hotspot On	LTE B25	22.16	19.65	
Hotspot On	LTE B41	22.74	20.26	
Grip	UMTS B4	22.97	20.44	
Grip	UMTS B2	22.6	20.16	
Grip	LTE B4	22.74	19.83	
Grip	LTE B66	22.2	20.23	
Grip	LTE B2	22.05	19.53	
Grip	LTE B25	22.16	19.65	
Grip	LTE B41	22.72	20.26	
Hotspot On, then Grip	UMTS B4	22.96	20.39	20.42
Hotspot On, then Grip	UMTS B2	22.62	20.16	20.17
Hotspot On, then Grip	LTE B4	22.31	19.77	19.83
Hotspot On, then Grip	LTE B66	22.21	20.22	20.24
Hotspot On, then Grip	LTE B2	22.07	19.57	19.55
Hotspot On, then Grip	LTE B25	22.16	19.65	19.64
Hotspot On, then Grip	LTE B41	22.73	20.25	20.24
Grip, then Hotspot On	UMTS B4	22.96	20.49	20.45
Grip, then Hotspot On	UMTS B2	22.61	20.13	20.15
Grip, then Hotspot On	LTE B4	22.3	19.85	19.78
Grip, then Hotspot On	LTE B66	22.22	20.23	20.2
Grip, then Hotspot On	LTE B2	22.06	19.56	19.55
Grip, then Hotspot On	LTE B25	22.14	19.61	19.62
Grip, then Hotspot On	LTE B41	22.74	20.25	20.22

Table G-2
Distance Measurement Verification for Main Antenna

Mechanism(s)	Test Condition	Band	Distance Measurements (mm)		Minimum Distance per Manufacturer (mm)
			Moving Toward	Moving Away	
Grip	Phablet - Back Side	Mid	12	15	11
Grip	Phablet - Back Side	High	11	14	11
Grip	Phablet - Front Side	Mid	8	11	6
Grip	Phablet - Front Side	High	8	11	6
Grip	Phablet - Bottom Edge	Mid	13	16	13
Grip	Phablet - Bottom Edge	High	13	15	13

*Note: Mid band refers to: UMTS B2/4, LTE B2/4/25/66; High band refers to: LTE B41

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1.4 WIFI Verification Summary

Table G-3
Power Measurement Verification WIFI

Mechanism(s)	Mode/Band	Conducted Power (dBm)	
		Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	802.11b	17.61	15.11
Held-to-Ear	802.11a	15.73	11.64
Held-to-Ear	802.11n (5GHz, 20MHz BW)	15.37	11.79
Held-to-Ear	802.11ac (20MHz BW)	15.45	11.7
Held-to-Ear	802.11n (5GHz, 40MHz BW)	14.57	12.62
Held-to-Ear	802.11ac (40MHz BW)	14.56	12.63
Held-to-Ear	802.11ac (80MHz BW)	12.58	12.38

Table G-4
Distance Measurement Verification for WIFI

Mechanism(s)	Test Condition	Band	Distance Measurements (mm)		Minimum Distance per Manufacturer (mm)
			Moving Toward	Moving Away	
Held-to-Ear	Head - Right Cheek	2.4GHz	70	>85	50
Held-to-Ear	Head - Right Cheek	5GHz	72	>85	50
Held-to-Ear	Head - Left Cheek	2.4GHz	65	80	50
Held-to-Ear	Head - Left Cheek	5GHz	73	>85	50

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1.5 Antenna Disabling Mechanism

The device supports an antenna disabling mechanism for Antenna D. When the device is in a held-to-ear voice call, the device's transmission transfers from the Antenna D to Antenna A, disabling Antenna D. The mechanism was verified according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection with both Antenna A and Antenna D. The output power was monitored.
2. The device was configured to transmit with Antenna D. The disabling mechanism was activated, and it was confirmed that device switched to use Antenna A.

Table G-5
Antenna Disabling Verification

Mechanism(s)	Condition	Mode/Band	Conducted Power (dBm)	
			Un-triggered (Antenna D Tx)	Triggered (Antenna A Tx)
Held-to-Ear	Condition A	LTE Band 5	20.7	-
Held-to-Ear		LTE Band 5	-	23.58
Held-to-Ear	Condition B	LTE Band 5	20.67	-
Held-to-Ear		LTE Band 5	-	23.61

Condition A and Condition B represent redundant scenarios where the device would potentially be used next to the head. It was confirmed that Antenna D would always be disabled for held-to-ear operations.

Table G-6
Distance Measurement Verification for Antenna Disabling

Mechanism(s)	Test Condition	Band	Distance Measurements (mm)		Minimum Distance per Manufacturer (mm)
			Moving Toward	Moving Away	
Held-to-Ear	Head - Right Cheek	LTE B5 - Antenna D	72	>85	50
Held-to-Ear	Head - Left Cheek	LTE B5 - Antenna D	67	>85	50

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