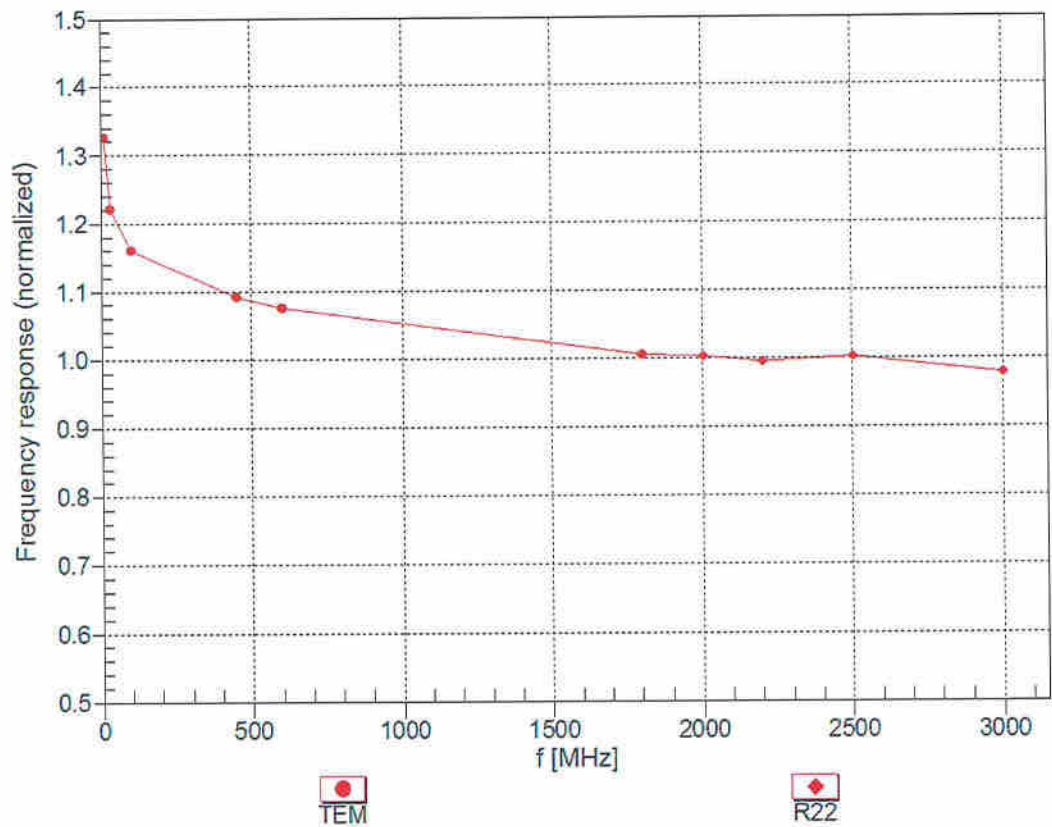


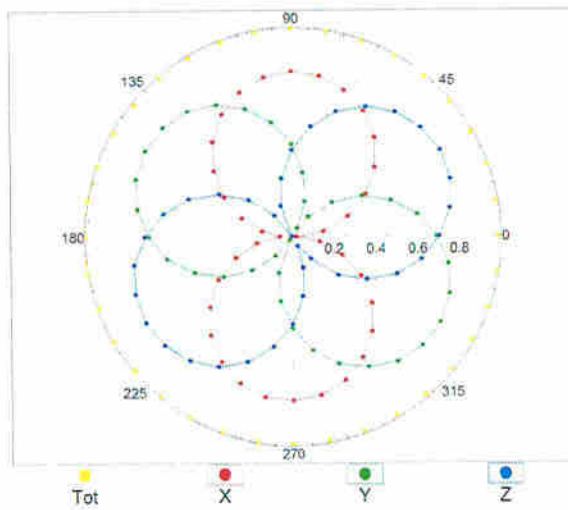
Frequency Response of E-Field
(TEM-Cell:ifi110 EXX, Waveguide: R22)



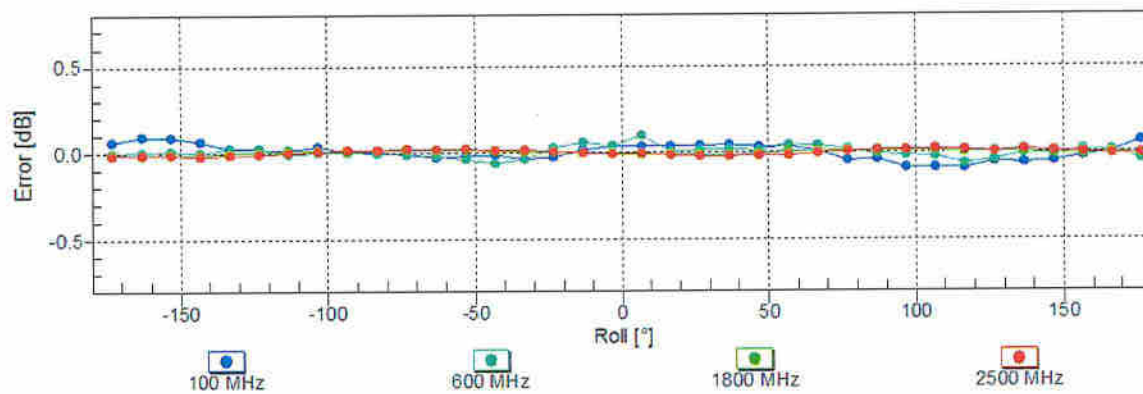
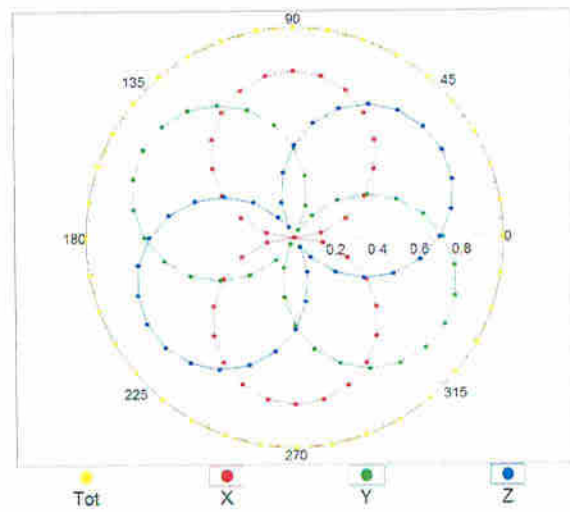
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz,TEM

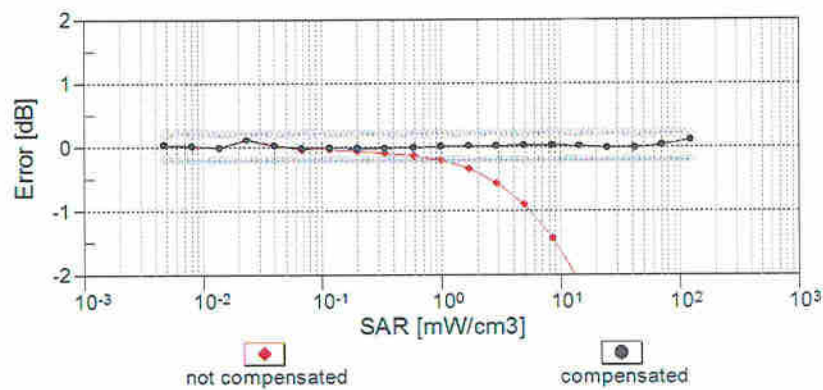
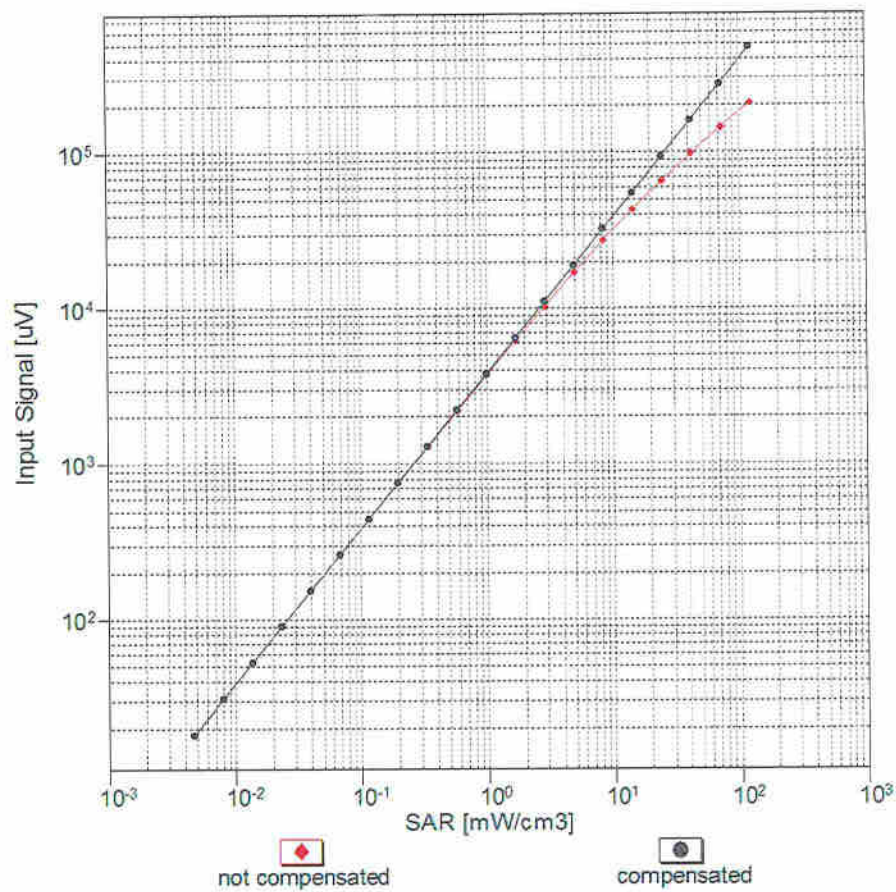


f=1800 MHz,R22



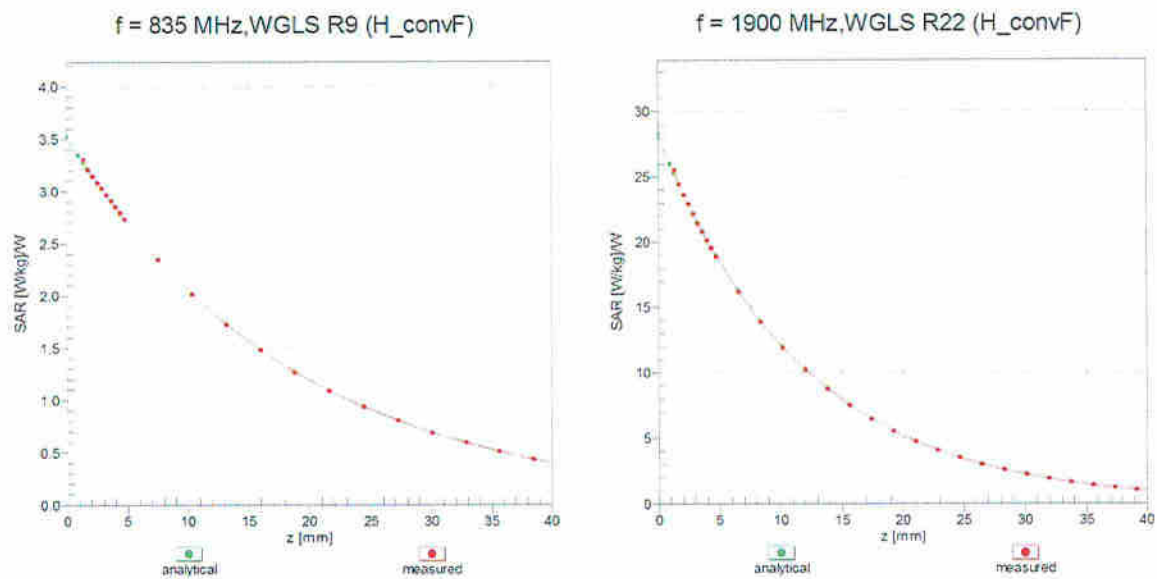
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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

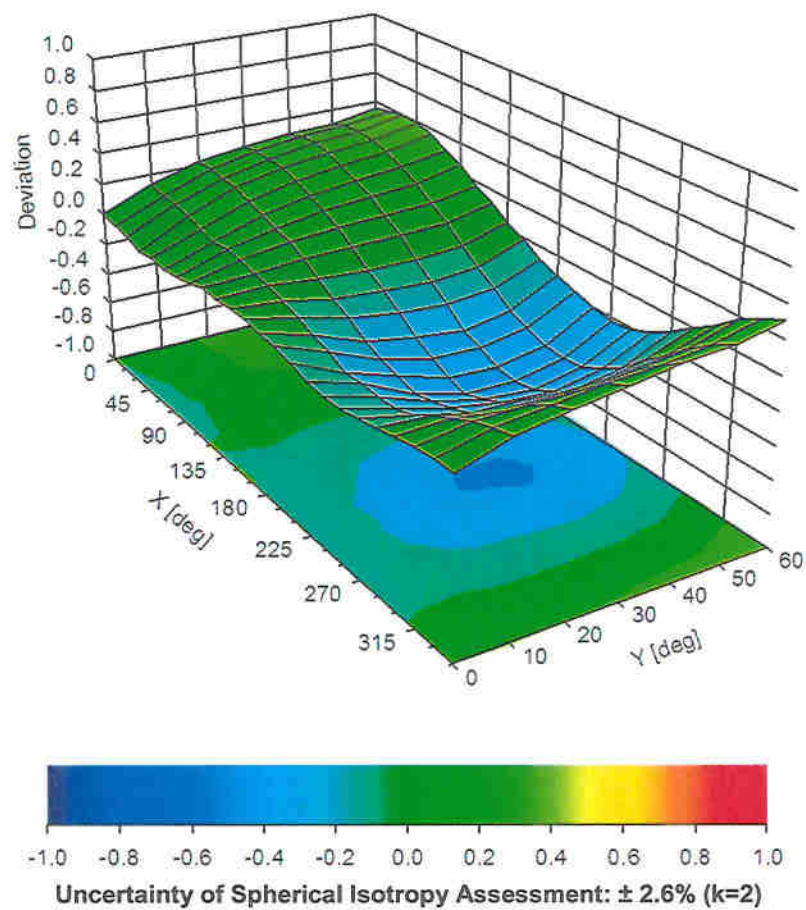


Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



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



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %

10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %

10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %

10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	CAC	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	CAB	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	CAB	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	CAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	CAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	CAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)	WiMAX	14.57	± 9.6 %
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAD	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAD	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAA	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %

10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %

10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAF	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAE	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %

10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %

10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAC	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAC	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAC	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAD	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %

10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %
10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %

10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAD	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %

10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %

10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

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



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **ES3-3279_Aug21**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3279**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes**

Calibration date: **August 24, 2021**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-21
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-21
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-21
Reference 20 dB Attenuator	SN: CC2552 (20x)	09-Apr-21 (No. 217-03343)	Apr-21
DAE4	SN: 660	23-Dec-20 (No. DAE4-660_Dec20)	Dec-21
Reference Probe ES3DV2	SN: 3013	30-Dec-20 (No. ES3-3013_Dec20)	Dec-21
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-21

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
Approved by:	Niels Kuster	Quality Manager	
			Issued: September 6, 2021
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			



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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:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- 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).

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3279

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	1.36	1.38	1.25	± 10.1 %
DCP (mV) ^B	101.5	103.5	102.7	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	185.1	±3.8 %	± 4.7 %
		Y	0.0	0.0	1.0		196.9		
		Z	0.0	0.0	1.0		187.8		

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

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

^B Numerical linearization parameter: uncertainty not required.

^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: ES3DV3 - SN:3279

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	170.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Note: Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3279

Calibration Parameter Determined in Head Tissue Simulating Media

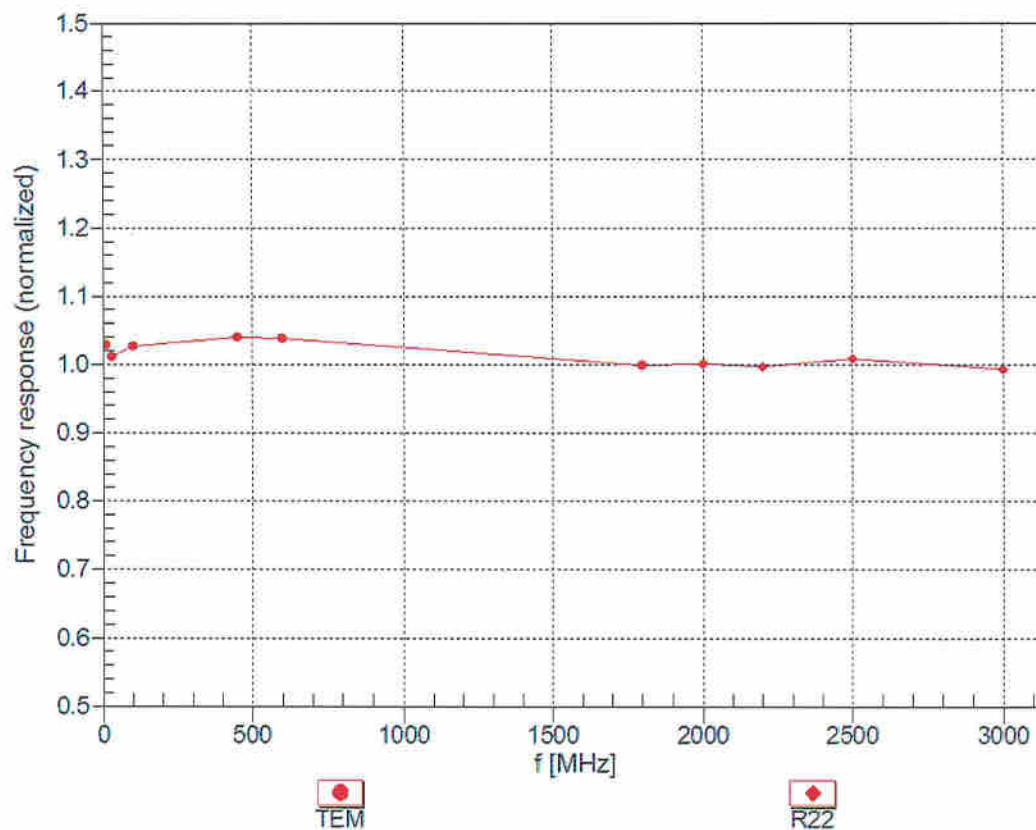
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.48	6.48	6.48	0.80	1.19	± 12.0 %
835	41.5	0.90	6.23	6.23	6.23	0.53	1.45	± 12.0 %
900	41.5	0.97	6.12	6.12	6.12	0.57	1.41	± 12.0 %
1750	40.1	1.37	5.52	5.52	5.52	0.43	1.57	± 12.0 %
1900	40.0	1.40	5.28	5.28	5.28	0.50	1.48	± 12.0 %
2000	40.0	1.40	5.18	5.18	5.18	0.80	1.21	± 12.0 %
2300	39.5	1.67	4.95	4.95	4.95	0.57	1.50	± 12.0 %
2450	39.2	1.80	4.75	4.75	4.75	0.80	1.27	± 12.0 %
2600	39.0	1.96	4.47	4.47	4.47	0.80	1.36	± 12.0 %

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

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be 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.

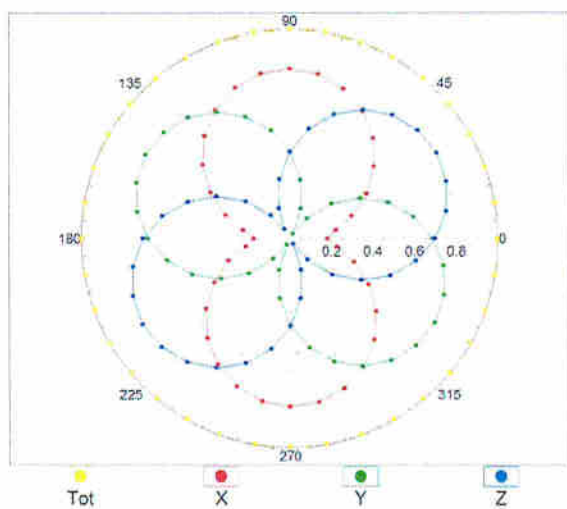
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



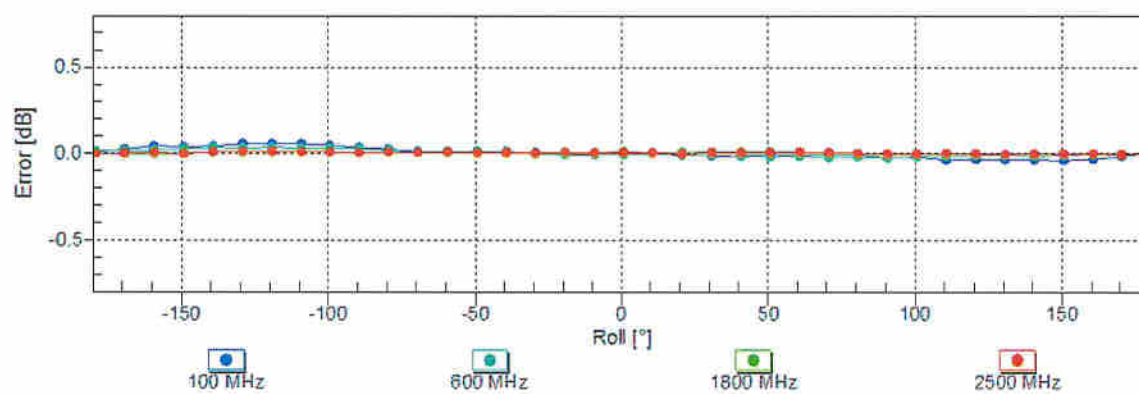
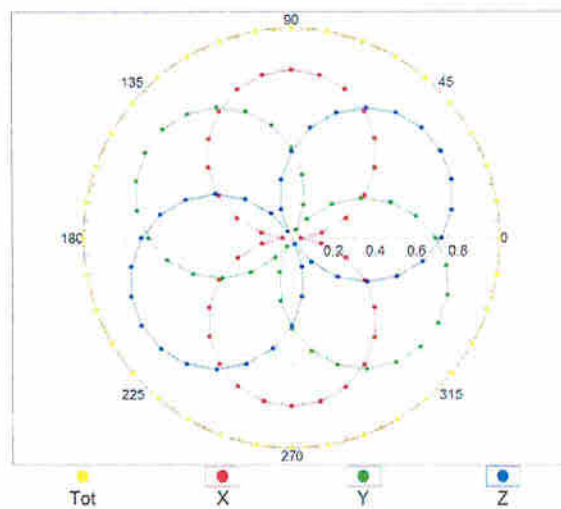
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz, TEM

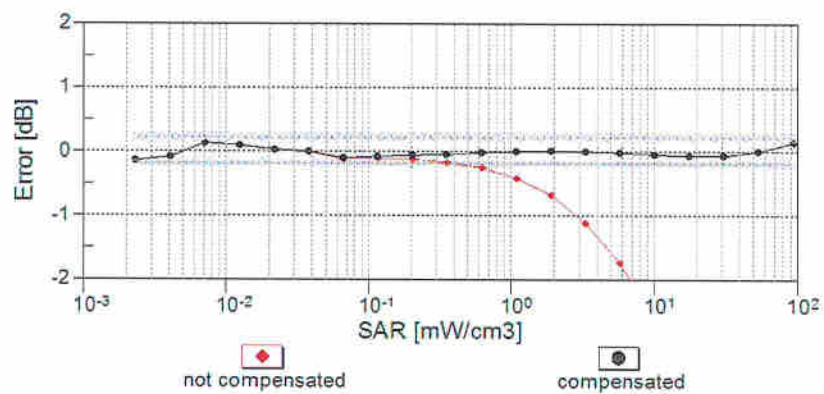
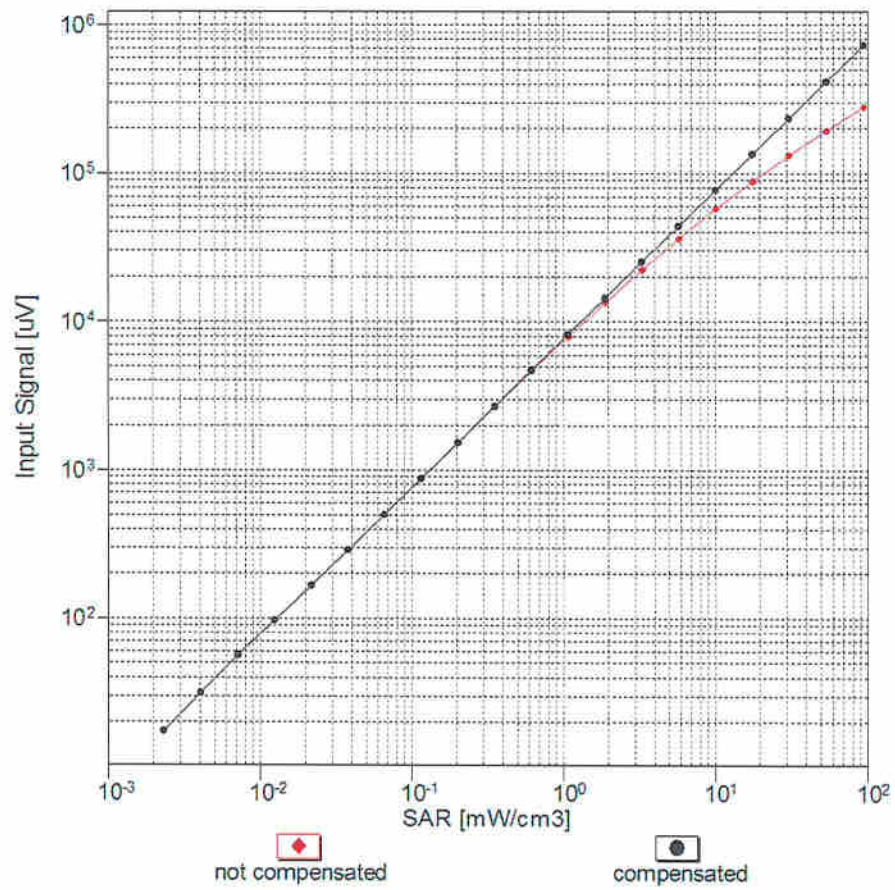


f=1800 MHz, R22



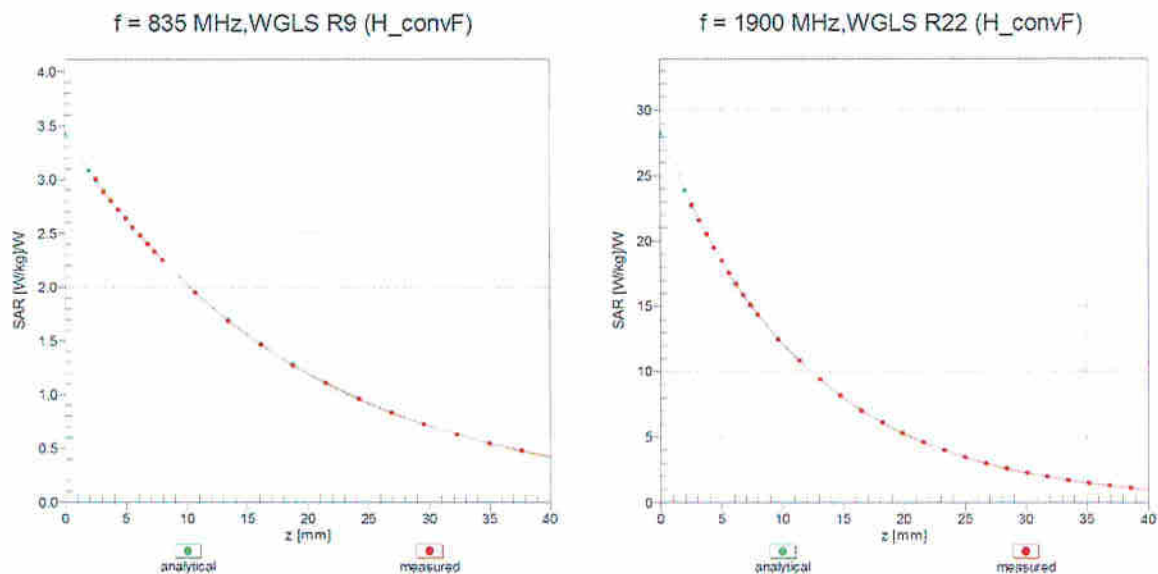
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



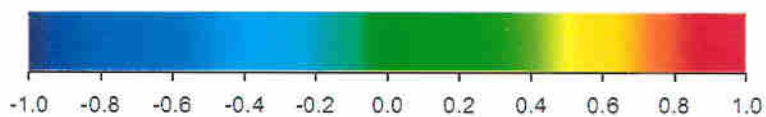
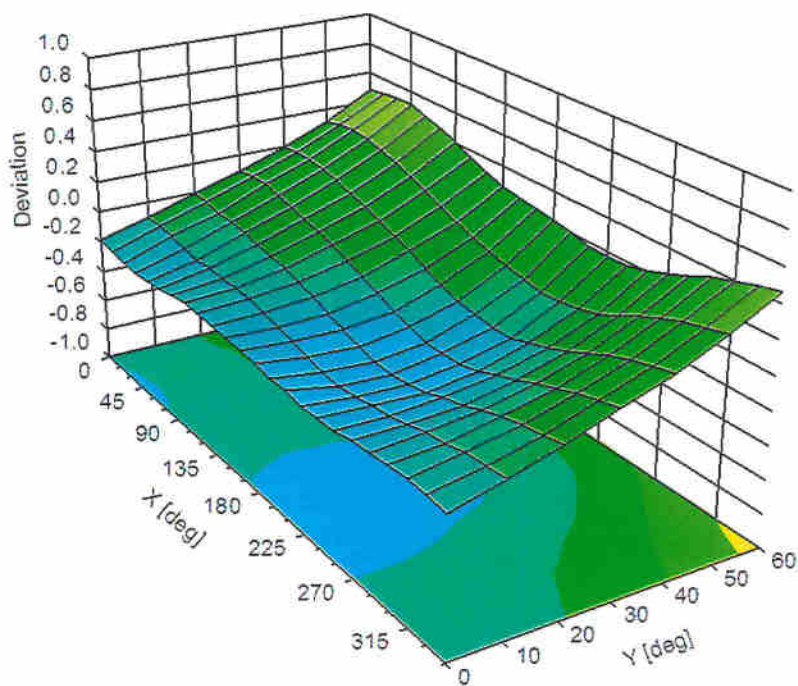
Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.

Full Power Mode

Ant 0								
GSM850		Burst Average Power (dBm)			Tune-up	Frame Average Power (dBm)		
TX Channel		128	189	251	Limit	128	189	251
Frequency (MHz)		824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM 1 Tx slot		32.36	32.54	32.66	33.50	23.36	23.54	23.66
GPRS 1 Tx slot		32.47	32.68	32.79	33.50	23.47	23.68	23.79
GPRS 2 Tx slots		29.42	29.83	29.83	30.50	23.42	23.83	23.83
GPRS 3 Tx slots		27.17	27.40	27.54	28.50	22.91	23.14	23.28
GPRS 4 Tx slots		24.82	25.02	25.04	26.00	21.82	22.02	22.04
EDGE 1 Tx slot		25.93	25.87	26.01	27.00	16.93	16.87	17.01
EDGE 2 Tx slots		23.55	23.52	23.67	24.50	17.55	17.52	17.67
EDGE 3 Tx slots		21.07	21.15	21.26	22.00	16.81	16.89	17.00
EDGE 4 Tx slots		19.24	19.28	19.45	20.00	16.24	16.28	16.45

Ant 0								
GSM1900		Burst Average Power (dBm)			Tune-up	Frame Average Power (dBm)		
TX Channel		512	661	810	Limit	512	661	810
Frequency (MHz)		1850.2	1860	1869.8	(dBm)	1850.2	1860	1869.8
GSM 1 Tx slot		30.11	29.92	29.78	30.50	21.11	20.92	20.78
GPRS 1 Tx slot		29.98	29.87	29.69	30.50	20.98	20.87	20.69
GPRS 2 Tx slots		27.07	27.16	27.05	28.00	21.07	21.16	21.05
GPRS 3 Tx slots		24.74	24.69	24.67	25.50	20.48	20.43	20.41
GPRS 4 Tx slots		22.34	22.27	22.28	23.50	19.34	19.27	19.28
EDGE 1 Tx slot		25.39	25.09	25.07	26.00	16.39	16.09	16.07
EDGE 2 Tx slots		22.78	22.54	22.46	23.50	16.78	16.54	16.46
EDGE 3 Tx slots		20.31	20.14	20.01	21.50	16.05	15.88	15.75
EDGE 4 Tx slots		17.84	17.74	17.62	19.00	14.84	14.74	14.62

		Ant 0								Ant 0			Ant 0					
Band		WCDMA II			Tune-up	WCDMA IV			Tune-up	WCDMA V			Tune-up					
TX Channel		9262	9400	9538	Limit	1312	1413	1513	Limit	4132	4182	4233	Limit					
Rx Channel		9662	9800	9938	(dBm)	1537	1638	1738	(dBm)	4357	4407	4458	(dBm)					
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6						
3GPP Rel 99	AMR 12.2Kbps	22.78	22.82	22.71	24.00	22.80	22.81	22.44	24.00	22.62	22.59	22.60	24.00					
3GPP Rel 99	RMC 12.2Kbps	22.79	22.96	22.75	24.00	22.82	22.83	22.68	24.00	22.82	22.88	22.60						
3GPP Rel 6	HSUPA Subtest-1	21.50	21.20	21.48	23.00	21.79	21.67	21.85	23.00	21.55	21.51	21.57	23.00					
3GPP Rel 6	HSUPA Subtest-2	21.55	21.63	21.60	23.00	21.84	21.90	21.90	23.00	21.89	21.94	21.72						
3GPP Rel 6	HSUPA Subtest-3	21.15	21.24	20.91	22.50	21.42	21.55	21.25	22.50	21.33	21.33	21.14	22.50					
3GPP Rel 6	HSUPA Subtest-4	20.95	20.96	21.13	22.50	21.37	21.23	21.40	22.50	21.11	21.18	21.36	22.50					
3GPP Rel 6	DC-HSDPA Subtest-1	21.37	21.34	21.60	23.00	21.68	21.48	21.97	23.00	21.34	21.38	21.43	23.00					
3GPP Rel 6	DC-HSDPA Subtest-2	21.39	21.76	21.63	23.00	21.74	22.04	21.94	23.00	21.73	21.94	21.78	23.00					
3GPP Rel 6	DC-HSDPA Subtest-3	20.96	21.23	21.05	22.50	21.23	21.51	21.37	22.50	21.33	21.37	21.16	22.50					
3GPP Rel 8	DC-HSDPA Subtest-4	21.17	21.18	21.24	22.50	21.08	21.37	21.45	22.50	21.01	21.23	21.36	22.50					
3GPP Rel 6	HSUPA Subtest-1	21.53	21.56	21.54	23.00	22.00	21.81	21.86	23.00	21.76	21.61	21.78	23.00					
3GPP Rel 6	HSUPA Subtest-2	19.42	19.63	19.59	21.00	19.65	19.94	19.79	21.00	19.50	19.87	19.62	21.00					
3GPP Rel 6	HSUPA Subtest-3	20.44	20.62	20.59	22.00	20.74	20.81	20.95	22.00	20.76	20.80	20.73	22.00					
3GPP Rel 6	HSUPA Subtest-4	19.55	19.41	19.45	21.00	19.89	19.68	19.55	21.00	19.82	19.56	19.51	21.00					
3GPP Rel 6	HSUPA Subtest-5	21.52	21.34	21.65	23.00	21.85	21.67	21.96	23.00	21.76	21.59	21.96	23.00					
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.87	18.98	19.17	20.50	19.28	19.15	19.37	20.50	19.16	19.12	19.15	20.50					



Band 2 Ant 0 Full Power											
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod0 Ch./Freq.	Power Mod1 Ch./Freq.	Power Mod2 Ch./Freq.	Time-up Int. (min)	MFR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.25	23.30	23.24	24	0			
20	QPSK	1	49	23.29	23.23	23.27					
20	QPSK	1	99	23.30	23.15	23.17					
20	QPSK	50	0	22.28	22.45	22.24					
20	QPSK	50	24	22.35	22.35	22.30	23	1			
20	QPSK	50	50	22.25	22.30	22.22					
20	16QAM	1	0	22.19	22.24	22.17					
20	16QAM	50	0	22.07	22.11	22.06	23	1			
20	16QAM	1	99	22.35	22.25	22.28					
20	16QAM	50	0	21.20	21.43	21.28					
20	16QAM	50	24	21.30	21.40	21.47					
20	16QAM	50	50	21.40	21.40	21.28	22	2			
20	16QAM	100	0	21.28	21.42	21.28					
20	16QAM	100	0	21.28	21.42	21.28					
20	16QAM	1	49	21.02	21.25	21.07	22	2			
20	16QAM	1	99	21.06	21.06	20.99					
20	16QAM	50	0	20.33	20.44	20.38					
20	16QAM	50	24	20.24	20.35	20.32	21	3			
20	16QAM	50	50	20.24	20.35	20.32					
20	16QAM	100	0	20.07	20.45	20.23					
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.19	23.21	23.15	24	0			
15	QPSK	1	97	23.17	23.17	23.15					
15	QPSK	1	74	23.05	23.05	23.10					
15	QPSK	36	0	22.17	22.34	22.24					
15	QPSK	36	20	22.29	22.30	22.31	23	1			
15	QPSK	36	36	22.09	22.14	22.01					
15	QPSK	75	0	22.08	22.32	22.11					
15	16QAM	1	0	22.12	22.13	22.08					
15	16QAM	1	37	21.97	22.03	21.99	23	1			
15	16QAM	1	74	21.28	22.11	21.07					
15	16QAM	36	0	21.26	21.32	21.28					
15	16QAM	36	20	21.25	21.37	21.33	22	2			
15	16QAM	36	36	21.31	21.39	21.15					
15	16QAM	75	0	21.22	21.30	21.28					
15	16QAM	1	0	21.10	21.09	21.09					
15	16QAM	1	37	20.94	21.10	20.98	22	2			
15	16QAM	36	0	20.92	20.96	20.97					
15	16QAM	36	20	20.15	20.20	20.38	21	3			
15	16QAM	36	36	20.17	20.24	20.22					
15	16QAM	75	0	20.09	20.25	20.17					
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.19	23.19	23.17	24	0			
10	QPSK	1	25	23.24	23.11	23.12					
10	QPSK	1	49	23.08	23.07	23.07					
10	QPSK	12	0	22.28	22.30	22.28	23	1			
10	QPSK	25	12	22.21	22.18	22.20					
10	QPSK	50	0	22.06	22.07	22.01					
10	16QAM	1	0	22.08	22.13	22.09					
10	16QAM	1	25	21.95	21.99	22.01	23	1			
10	16QAM	1	49	21.26	21.25	21.25					
10	16QAM	12	0	21.13	21.36	21.17	22	2			
10	16QAM	25	12	21.32	21.38	21.36					
10	16QAM	25	25	21.30	21.35	21.36					
10	16QAM	50	0	21.18	21.18	21.25					
10	16QAM	1	0	20.98	21.06	20.92	22	2			
10	16QAM	12	0	20.87	20.96	20.95					
10	16QAM	25	0	20.17	20.29	20.26					
10	16QAM	25	12	20.16	20.24	20.25	21	3			
10	16QAM	25	25	20.17	20.25	20.26					
10	16QAM	50	0	20.00	20.32	20.12					
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.21	23.20	23.13	24	0			
5	QPSK	1	12	23.23	23.09	23.11					
5	QPSK	1	24	23.06	23.07	23.07					
5	QPSK	12	0	22.14	22.25	22.09					
5	QPSK	12	7	22.30	22.20	22.29	23	1			
5	QPSK	12	13	22.16	22.21	22.11					
5	QPSK	25	0	22.05	22.20	22.16					
5	16QAM	1	0	22.13	22.11	22.08	23	1			
5	16QAM	1	12	21.95	22.02	21.93					
5	16QAM	12	0	21.29	22.11	21.17	22	2			
5	16QAM	12	7	21.24	21.33	21.33					
5	16QAM	12	13	21.25	21.35	21.35					
5	16QAM	25	0	21.19	21.27	21.21					
5	16QAM	1	0	21.12	21.27	21.08	22	2			
5	16QAM	1	24	20.91	20.95	20.94					
5	16QAM	12	0	20.18	20.37	20.07					
5	16QAM	12	7	20.11	20.26	20.14	21	3			
5	16QAM	12	13	20.12	20.30	20.21					
5	16QAM	25	0	19.88	20.26	20.03					
Channel											
Frequency (MHz)											
1	QPSK	1	0	23.21	23.20	23.13	24	0			
1	QPSK	1	8	23.20	23.11	23.20					
1	QPSK	1	14	23.16	23.01	23.09					
1	QPSK	8	0	22.15	22.26	22.09					
1	QPSK	8	4	22.28	22.15	22.15	23	1			
1	QPSK	8	7	22.15	22.10	22.03					
1	16QAM	1	0	22.00	22.28	22.15					
1	16QAM	1	0	22.10	22.08	22.02	23	1			
1	16QAM	1	14	22.25	22.00	22.07					
1	16QAM	8	0	21.14	21.36	21.17					
1	16QAM	8	4	21.23	21.30	21.41	22	2			
1	16QAM	8	7	21.25	21.42	21.17					
1	16QAM	15	0	21.18	21.37	21.31					
1	16QAM	1	8	20.92	21.08	20.93	22	2			
1	16QAM	1	14	20.95	20.99	20.98					
1	16QAM	8	0	20.17	20.29	20.12					
1	16QAM	8	4	20.17	20.27	20.35	21	3			
1	16QAM	8	7	20.14	20.27	20.28					
1	16QAM	15	0	19.94	20.25	20.07					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	23.27	23.20	23.13	24	0			
1.4	QPSK	1	3	23.14	23.15	23.02					
1.4	QPSK	1	5	23.04	23.12	23.14					
1.4	QPSK	3	0	22.18	22.23	22.13					
1.4	QPSK	3	1	22.06	22.12	22.08	23	1			
1.4	QPSK	3	3	22.03	22.03	22.06					
1.4	QPSK	6		22.05	22.25	22.23					
1.4	QPSK	6	1	22.02	22.22	22.20	23	1			
1.4	QPSK	6	3	22.04	22.29	22.30					
1.4	QPSK	1	5	22.29	22.45	22.23					
1.4	QPSK	1	11	22.12	22.38	22.22					
1.4	QPSK	3	1	22.23	22.38	22.42	22	2			
1.4	QPSK	3	3	22.15	22.29	22.33					
1.4	QPSK	6		22.12	22.32	22.25	22	2			
1.4	QPSK	6	1	22.15	22.41	22.18					
1.4	QPSK	1	3	21.06	21.35	21.30					
1.4	QPSK	1	11	21.11	21.37	21.31	22	2			
1.4	QPSK	3	0	21.21	21.34	21.33					
1.4	QPSK	3	1	21.27	21.42	21.39					
1.4	QPSK	6	1	21.08	21.38	21.30					
1.4	QPSK	6	3	20.26	20.44	20.34	21	3			

Band 12 Ant 0 Full Power														
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod0 Ch./Freq	Power Mod1 Ch./Freq	Power Mod2 Ch./Freq	Turn-up Time (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.41	23.47	23.21			24	0				
10	QPSK	1	25	23.17	23.28	23.39								
10	QPSK	1	49	23.25	23.22	23.27								
10	QPSK	25	0	22.20	22.49	22.23								
10	QPSK	25	12	22.36	22.29	22.25			23	1				
10	QPSK	25	25	22.21	22.30	22.28								
10	QPSK	50	0	22.12	22.45	22.29								
10	16QAM	1	0	22.40	22.35	22.40								
10	16QAM	1	25	22.25	22.30	22.33			23	1				
10	16QAM	1	49	22.29	22.32	22.25								
10	16QAM	25	0	21.46	21.54	21.41								
10	16QAM	25	12	21.63	21.42	21.52								
10	16QAM	25	25	21.37	21.37	21.37			22	2				
10	16QAM	50	0	21.28	21.41	21.48								
10	16QAM	50	0	20.37	20.35	20.38								
10	16QAM	25	12	20.52	20.05	20.38								
10	16QAM	25	25	20.18	20.38	20.29			21	3				
10	16QAM	50	0	20.07	20.25	20.08								
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.05	23.05	23.15			24	0				
5	QPSK	1	12	22.29	23.26	23.11								
5	QPSK	1	24	23.16	23.17	23.07								
5	QPSK	12	0	22.07	22.42	22.12								
5	QPSK	12	7	22.12	22.15	22.14			23	1				
5	QPSK	12	13	22.13	22.20	22.18								
5	QPSK	25	0	21.87	22.40	22.15								
5	16QAM	1	0	22.15	22.15	22.27								
5	16QAM	1	12	22.21	22.18	22.23			23	1				
5	16QAM	1	24	22.17	22.20	22.12								
5	16QAM	12	0	21.34	21.40	21.39								
5	16QAM	12	7	21.35	21.31	21.42								
5	16QAM	12	13	21.33	21.29	21.35			22	2				
5	16QAM	25	0	21.16	21.36	21.40								
5	16QAM	25	0	21.19	21.32	21.31								
5	16QAM	1	12	21.19	21.18	21.04								
5	16QAM	1	24	21.13	21.18	21.05			22	2				
5	16QAM	12	0	20.14	20.38	20.25								
5	16QAM	12	7	20.19	20.21	20.24								
5	16QAM	12	13	20.10	20.29	20.14								
5	16QAM	25	0	19.27	19.55	19.25			21	3				
Channel														
Frequency (MHz)														
3	QPSK	1	0	23.28	23.31	23.10			24	0				
3	QPSK	1	8	23.03	23.14	23.27								
3	QPSK	1	14	23.20	23.13	23.08								
3	QPSK	8	0	22.06	22.35	22.16								
3	QPSK	8	4	22.21	22.20	22.11			23	1				
3	QPSK	8	7	22.09	22.24	22.12								
3	QPSK	12	0	22.01	22.36	22.18								
3	16QAM	1	0	22.27	22.25	22.26								
3	16QAM	1	8	22.13	22.15	22.24			23	1				
3	16QAM	1	14	22.21	22.23	22.21								
3	16QAM	8	0	21.37	21.37	21.46								
3	16QAM	8	7	21.30	21.29	21.30								
3	16QAM	15	0	21.00	21.25	21.40			22	2				
3	16QAM	1	0	21.13	21.26	21.32								
3	16QAM	1	8	21.11	21.10	21.00								
3	16QAM	1	14	21.10	21.09	21.07								
3	16QAM	8	0	20.15	20.37	20.37			21	3				
3	16QAM	8	4	20.22	20.21	20.33								
3	16QAM	8	7	20.08	20.34	20.17								
3	16QAM	15	0	19.24	19.61	19.29								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.16	23.35	23.13			24	0				
1.4	QPSK	1	3	23.10	23.09	23.02								
1.4	QPSK	1	5	23.15	23.14	23.12								
1.4	QPSK	3	0	23.16	23.13	23.18								
1.4	QPSK	3	1	23.26	23.07	23.24			23	1				
1.4	QPSK	3	3	23.06	23.13	23.08								
1.4	QPSK	6	0	22.08	22.14	22.05								
1.4	16QAM	1	0	22.22	22.26	22.31								
1.4	16QAM	1	3	22.14	22.01	22.15			23	1				
1.4	16QAM	1	5	22.22	22.41	22.15								
1.4	16QAM	3	0	22.40	22.04	22.12								
1.4	16QAM	3	1	22.17	22.17	22.14								
1.4	16QAM	3	3	22.09	22.14	22.08			22	2				
1.4	16QAM	6	0	21.20	21.30	21.26								
1.4	16QAM	1	0	21.14	21.31	21.14								
1.4	16QAM	1	3	21.13	21.18	21.10								
1.4	16QAM	1	5	21.07	20.99	21.23			22	2				
1.4	16QAM	3	0	21.23	21.31	21.18								
1.4	16QAM	3	1	21.24	21.31	21.29								
1.4	16QAM	3	3	21.19	21.33	21.23								
1.4	16QAM	6	0	20.16	20.35	20.21			21	3				

Band 13 Ant 0 Full Power														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Fwd	Power Mid Ch./Fwd	Power High Ch./Fwd	Turn-up Time (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0		23.40				24	0				
10	QPSK	1	25		23.14									
10	QPSK	1	49		23.14									
10	QPSK	25	0		22.39									
10	QPSK	25	12		22.21				23	1				
10	QPSK	25	25		22.25									
10	QPSK	50	0		22.35									
10	16QAM	1	0		22.25				23	1				
10	16QAM	1	25		22.23									
10	16QAM	1	49		22.18									
10	16QAM	25	0		21.45									
10	16QAM	25	12		21.32				22	2				
10	16QAM	25	25		21.30									
10	16QAM	50	0		21.31									
10	16QAM	50	0		21.32									
10	16QAM	1	25		21.19				22	2				
10	16QAM	1	49		21.28									
10	16QAM	25	0		20.35									
10	16QAM	25	12		20.21									
10	16QAM	25	25		20.27				21	3				
10	16QAM	50	0		20.26									
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.34	23.29	23.07			24	0				
5	QPSK	1	12	23.05	23.26	23.24								
5	QPSK	1	24	23.17	23.20	23.02								
5	QPSK	12	0	22.11	22.10	22.15			24	0				
5	QPSK	12	12	22.16	22.10	22.14								
5	QPSK	12	24	22.08	22.16	22.15								
5	QPSK	12	36	22.13	22.06	22.05			23	1				
5	QPSK	12	48	22.11	22.08	22.07								
5	16QAM	1	0	22.31	22.30	22.28								
5	16QAM	1	12	22.25	22.17	22.20			23	1				
5	16QAM	1	24	22.14	22.25	22.14								
5	16QAM	12	0	21.21	21.22	21.35								
5	16QAM	12	7	21.39	21.32	21.46			22	2				
5	16QAM	12	19	21.27	21.29	21.28								
5	16QAM	12	31	21.21	21.34	21.38								
5	16QAM	1	0	21.16	21.34	21.36			22	2				
5	16QAM	1	12	21.14	21.22	21.27								
5	16QAM	12	0	20.10	20.36	20.25								
5	16QAM	12	7	20.14	20.21	20.20			21	3				
5	16QAM	12	19	20.09	20.26	20.22								
5	16QAM	25	0	19.25	19.49	19.33								

Band 38 Ant 1 Full Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	0	22.84	22.98	22.63	24	0	
20	QPSK	1	49	22.73	22.64	22.83			
20	QPSK	1	99	22.89	22.66	22.63			
20	QPSK	50	0	21.72	22.03	21.73			
20	QPSK	50	24	21.76	21.79	21.81	23	1	
20	QPSK	50	50	21.74	21.80	21.87			
20	QPSK	100	0	21.66	21.95	21.88			
20	16QAM	1	0	21.83	21.85	21.79			
20	16QAM	1	49	21.80	21.86	21.67	23	1	
20	16QAM	1	99	21.68	21.83	21.78			
20	16QAM	50	0	20.89	20.89	20.96			
20	16QAM	50	24	21.03	21.06	21.08			
20	16QAM	50	50	20.97	20.87	20.93	22	2	
20	16QAM	100	0	20.84	20.86	21.07			
20	64QAM	1	0	20.80	20.81	20.66			
20	64QAM	1	49	20.72	20.87	20.74			
20	64QAM	1	99	20.58	20.97	20.60	22	2	
20	64QAM	50	0	19.75	19.98	19.83			
20	64QAM	50	24	19.57	19.76	19.72			
20	64QAM	50	50	19.58	19.82	19.85			
20	64QAM	100	0	19.59	19.92	19.56	21	3	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.71	22.93	22.56	24	0	
15	QPSK	1	37	22.59	22.49	22.70			
15	QPSK	1	74	22.74	22.55	22.51			
15	QPSK	36	0	21.59	21.89	21.59			
15	QPSK	36	20	21.67	21.68	21.69	23	1	
15	QPSK	36	39	21.64	21.76	21.72			
15	QPSK	75	0	21.53	21.84	21.80			
15	16QAM	1	0	21.70	21.76	21.74			
15	16QAM	1	37	21.68	21.75	21.59	23	1	
15	16QAM	1	74	21.52	21.67	21.70			
15	16QAM	36	0	20.84	20.77	20.84			
15	16QAM	36	20	20.99	20.96	21.02			
15	16QAM	36	39	20.93	20.82	20.89	22	2	
15	16QAM	75	0	20.79	20.74	20.95			
15	64QAM	1	0	20.75	20.75	20.52			
15	64QAM	1	37	20.67	20.79	20.63			
15	64QAM	1	74	20.45	20.87	20.49	22	2	
15	64QAM	36	0	19.63	19.85	19.73			
15	64QAM	36	20	19.44	19.66	19.63			
15	64QAM	36	39	19.48	19.77	19.70			
15	64QAM	75	0	19.47	19.86	19.42	21	3	
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.75	22.91	22.53	24	0	
10	QPSK	1	25	22.66	22.59	22.77			
10	QPSK	1	49	22.77	22.58	22.52			
10	QPSK	25	0	21.59	21.94	21.61			
10	QPSK	25	12	21.68	21.70	21.66	23	1	
10	QPSK	25	25	21.69	21.73	21.82			
10	QPSK	50	0	21.61	21.88	21.76			
10	16QAM	1	0	21.69	21.73	21.68			
10	16QAM	1	25	21.68	21.70	21.59	23	1	
10	16QAM	1	49	21.57	21.78	21.69			
10	16QAM	25	0	20.83	20.83	20.84			
10	16QAM	25	12	20.88	20.98	20.95			
10	16QAM	25	25	20.85	20.71	20.81	22	2	
10	16QAM	50	0	20.79	20.71	20.91			
10	64QAM	1	0	20.76	20.67	20.51			
10	64QAM	1	25	20.62	20.77	20.67			
10	64QAM	1	49	20.45	20.88	20.52	22	2	
10	64QAM	25	0	19.64	19.86	19.72			
10	64QAM	25	12	19.49	19.64	19.65			
10	64QAM	25	25	19.52	19.78	19.78			
10	64QAM	50	0	19.55	19.83	19.49	21	3	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.71	22.87	22.49	24	0	
5	QPSK	1	12	22.65	22.50	22.77			
5	QPSK	1	24	22.79	22.59	22.48			
5	QPSK	12	0	21.58	21.92	21.63			
5	QPSK	12	7	21.63	21.70	21.76	23	1	
5	QPSK	12	13	21.64	21.70	21.82			
5	QPSK	25	0	21.51	21.88	21.81			
5	16QAM	1	0	21.70	21.77	21.67			
5	16QAM	1	12	21.72	21.73	21.59	23	1	
5	16QAM	1	24	21.52	21.70	21.72			
5	16QAM	12	0	20.81	20.75	20.87			
5	16QAM	12	7	20.96	20.96	20.97			
5	16QAM	12	13	20.92	20.81	20.85	22	2	
5	16QAM	25	0	20.70	20.74	20.98			
5	64QAM	1	0	20.69	20.76	20.50			
5	64QAM	1	12	20.58	20.81	20.69			
5	64QAM	1	24	20.45	20.90	20.50	22	2	
5	64QAM	12	0	19.63	19.84	19.75			
5	64QAM	12	7	19.49	19.69	19.58			
5	64QAM	12	13	19.46	19.77	19.80			
5	64QAM	25	0	19.53	19.80	19.52	21	3	
Channel				37750	38000	38250			
Frequency (MHz)				2570	2595	2620	Tune-up limit (dBm)	MPR (dB)	

Band 41 Ant 1 Full Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2503	2549.3	2593	2637.5	2682.5		
20	QPSK	1	0	22.92	23.06	23.08	22.96	22.83	24	0
20	QPSK	1	49	22.92	22.98	22.96	22.96	22.98		
20	QPSK	1	99	22.99	22.93	23.00	22.87	22.89		
20	QPSK	50	0	21.92	21.88	22.10	21.86	21.85		
20	QPSK	50	24	21.92	21.81	21.87	21.87	22.00	23	1
20	QPSK	50	50	21.96	21.90	21.89	21.89	21.93		
20	QPSK	100	0	21.96	21.93	22.06	22.02	21.99		
20	16QAM	1	0	21.89	21.87	21.97	21.93	21.93		
20	16QAM	1	49	21.98	21.89	21.81	21.83	21.82	23	1
20	16QAM	1	99	21.86	21.76	22.04	21.87	21.76		
20	16QAM	50	0	21.00	21.14	21.22	21.05	21.12		
20	16QAM	50	24	21.06	21.19	21.06	21.02	21.19		
20	16QAM	50	50	21.11	21.19	21.07	21.00	21.05	22	2
20	16QAM	100	0	20.97	20.91	20.88	20.95	21.15		
20	64QAM	1	0	20.85	20.77	20.96	20.86	20.78		
20	64QAM	1	49	20.84	20.80	20.81	20.90	20.88	22	2
20	64QAM	1	99	20.94	20.92	21.05	20.80	20.84		
20	64QAM	50	0	19.97	19.91	19.98	19.91	19.84		
20	64QAM	50	24	19.73	19.78	19.91	19.89	19.78	21	3
20	64QAM	50	50	19.71	19.70	19.84	19.82	19.91		
20	64QAM	100	0	19.71	19.74	19.97	19.85	19.80		
Channel				39725	40173	40620	41068	41515	tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.75	22.90	22.92	22.81	22.63	24.00	0
15	QPSK	1	37	22.66	22.83	22.70	22.70	22.74		
15	QPSK	1	74	22.79	22.77	22.82	22.61	22.74		
15	QPSK	36	0	21.72	21.73	21.84	21.67	21.64		
15	QPSK	36	20	21.76	21.55	21.70	21.63	21.80	23	1
15	QPSK	36	39	21.80	21.65	21.73	21.65	21.78		
15	QPSK	75	0	21.79	21.77	21.91	21.80	21.78		
15	16QAM	1	0	21.73	21.62	21.79	21.77	21.74		
15	16QAM	1	37	21.83	21.70	21.57	21.65	21.56	23	1
15	16QAM	1	74	21.63	21.59	21.81	21.70	21.59		
15	16QAM	36	0	20.78	20.91	21.02	20.86	20.93		
15	16QAM	36	20	20.88	21.03	20.87	20.79	20.96	22	2
15	16QAM	36	39	20.89	20.98	20.91	20.83	20.85		
15	16QAM	75	0	20.74	20.68	20.63	20.79	20.80		
15	64QAM	1	0	20.61	20.52	20.73	20.70	20.56		
15	64QAM	1	37	20.61	20.59	20.57	20.67	20.64	22	2
15	64QAM	1	74	20.70	20.69	20.89	20.54	20.69		
15	64QAM	36	0	19.81	19.71	19.82	19.65	19.67		
15	64QAM	36	20	19.59	19.58	19.68	19.65	19.56		
15	64QAM	36	39	19.50	19.47	19.65	19.56	19.77	21	3
15	64QAM	75	0	19.51	19.52	19.77	19.60	19.54		
Channel				39700	40160	40620	41080	41540	tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.67	22.81	22.84	22.71	22.69	24.00	0
10	QPSK	1	25	22.69	22.75	22.81	22.79	22.74		
10	QPSK	1	49	22.82	22.77	22.78	22.62	22.62		
10	QPSK	25	0	21.72	21.73	21.91	21.66	21.60		
10	QPSK	25	12	21.68	21.65	21.73	21.70	21.75	23	1
10	QPSK	25	25	21.74	21.72	21.74	21.65	21.72		
10	QPSK	50	0	21.76	21.70	21.89	21.82	21.77		
10	16QAM	1	0	21.75	21.65	21.81	21.68	21.73		
10	16QAM	1	25	21.84	21.64	21.60	21.65	21.59	23	1
10	16QAM	1	49	21.63	21.57	21.84	21.72	21.59		
10	16QAM	25	0	20.81	20.92	21.03	20.79	20.87		
10	16QAM	25	12	20.91	21.03	20.84	20.84	21.04	22	2
10	16QAM	25	25	20.95	21.03	20.84	20.85	20.82		
10	16QAM	50	0	20.77	20.69	20.68	20.75	20.98		
10	64QAM	1	0	20.59	20.61	20.81	20.64	20.59		
10	64QAM	1	25	20.59	20.62	20.62	20.70	20.71	22	2
10	64QAM	1	49	20.77	20.73	20.89	20.60	20.66		
10	64QAM	25	0	19.77	19.71	19.76	19.70	19.66		
10	64QAM	25	12	19.56	19.62	19.72	19.69	19.60		
10	64QAM	25	25	19.55	19.47	19.67	19.60	19.70	21	3
10	64QAM	50	0	19.57	19.49	19.80	19.61	19.64		
Channel				39675	40148	40620	41093	41565	tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	22.71	22.89	22.88	22.72	22.63	24.00	0
5	QPSK	1	12	22.69	22.74	22.70	22.72	22.83		
5	QPSK	1	24	22.78	22.76	22.76	22.64	22.65		
5	QPSK	12	0	21.76	21.68	21.89	21.68	21.60		
5	QPSK	12	7	21.74	21.62	21.66	21.70	21.83	23	1
5	QPSK	12	13	21.76	21.68	21.67	21.69	21.74		
5	QPSK	25	0	21.71	21.76	21.83	21.78	21.74		
5	16QAM	1	0	21.75	21.66	21.75	21.69	21.72		
5	16QAM	1	12	21.77	21.65	21.58	21.58	21.64	23	1
5	16QAM	1	24	21.71	21.51	21.89	21.69	21.57		
5	16QAM	12	0	20.84	20.95	21.06	20.84	20.95		
5	16QAM	12	7	20.84	20.94	20.82	20.81	21.00	22	2
5	16QAM	12	13	20.95	20.96	20.83	20.83	20.80		
5	16QAM	25	0	20.73	20.70	20.63	20.71	20.89		
5	64QAM	1	0	20.69	20.60	20.79	20.64	20.55		
5	64QAM	1	12	20.64	20.64	20.62	20.76	20.67	22	2
5	64QAM	1	24	20.74	20.69	20.85	20.59	20.69		
5	64QAM	12	0	19.81	19.74	19.80	19.72	19.63		
5	64QAM	12	7	19.57	19.56	19.65	19.67	19.55		
5	64QAM	12	13	19.46	19.49	19.63	19.67	19.66	21	3
5	64QAM	25	0	19.49	19.49	19.78	19.70	19.61		

Reduced Power Mode for Sensor on

Ant 0							
GSM850	Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)		
TX Channel	125	135	251	Limit	125	135	251
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8
GSM 1 Tx slot	31.35	31.58	31.53	32.50	22.35	22.58	22.53
GPRS 1 Tx slot	31.55	31.85	31.85	32.50	22.55	22.85	22.85
GPRS 2 Tx slots	28.54	28.81	28.79	29.50	22.54	22.81	22.79
GPRS 3 Tx slots	26.36	26.24	26.46	27.50	22.10	21.98	22.20
GPRS 4 Tx slots	23.92	24.20	24.03	25.00	20.92	21.20	21.03
EDGE 1 Tx slot	25.07	25.06	25.05	26.00	16.07	16.06	16.05
EDGE 2 Tx slots	22.66	22.37	22.61	23.50	16.66	16.37	16.61
EDGE 3 Tx slots	20.00	20.31	20.14	21.00	15.74	16.05	15.88
EDGE 4 Tx slots	18.19	18.18	18.40	19.00	15.19	15.18	15.40

Ant 0							
GSM1300	Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)		
TX Channel	512	661	810	Limit	512	661	810
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8
GSM 1 Tx slot	26.02	26.35	26.15	27.00	17.02	17.35	17.15
GPRS 1 Tx slot	26.23	26.37	26.03	27.00	17.23	17.37	17.03
GPRS 2 Tx slots	23.60	23.76	23.68	24.50	17.60	17.76	17.68
GPRS 3 Tx slots	21.07	21.35	21.07	22.00	16.81	17.09	16.81
GPRS 4 Tx slots	19.00	18.62	18.66	20.00	16.00	15.62	15.66
EDGE 1 Tx slot	21.77	21.50	21.42	22.50	12.77	12.50	12.42
EDGE 2 Tx slots	19.33	19.10	18.89	20.00	13.33	13.10	12.89
EDGE 3 Tx slots	16.81	16.60	16.65	18.00	12.55	12.34	12.39
EDGE 4 Tx slots	14.30	14.35	14.07	15.50	11.30	11.35	11.07

Ant 0											
Band		WCDMA II			WCDMA IV			WCDMA V			
TX Channel		9262	9400	9538	Tune-up	1312	1413	1513	Tune-up	4132	4182
Rx Channel		9662	9800	9938	Limit	1537	1638	1738	Limit	4357	4407
Frequency (MHz)		1652.4	1680	1697.6	(dBm)	1712.4	1725.1	1752.6	(dBm)	4264.4	4354
3GPP Rel 99	AMR 12.2Kbps	15.92	16.10	15.98	17.50	16.43	16.50	16.11	17.50	22.52	22.49
3GPP Rel 99	RM-C 12.2Kbps	15.93	16.11	16.02	17.50	16.44	16.51	16.17	17.50	22.72	22.79
3GPP Rel 6	HSDPA Subtest-1	15.09	14.62	14.85	16.50	15.38	15.13	15.19	16.50	21.55	21.51
3GPP Rel 6	HSDPA Subtest-2	15.03	15.22	14.97	16.50	15.45	15.58	15.49	16.50	21.89	21.94
3GPP Rel 6	HSDPA Subtest-3	14.55	14.69	14.54	16.00	14.93	14.93	14.66	16.00	21.33	21.33
3GPP Rel 6	HSDPA Subtest-4	14.51	14.63	14.74	16.00	14.86	14.74	14.97	16.00	21.11	21.18
3GPP Rel 8	DC-HSDPA Subtest-1	14.87	14.79	15.19	16.50	15.13	15.15	15.50	16.50	21.34	21.38
3GPP Rel 8	DC-HSDPA Subtest-2	14.93	15.13	15.01	16.50	15.41	15.40	15.51	16.50	21.73	21.94
3GPP Rel 8	DC-HSDPA Subtest-3	14.37	14.62	14.38	16.00	14.60	14.98	15.01	16.00	21.33	21.37
3GPP Rel 8	DC-HSDPA Subtest-4	14.83	14.72	14.77	16.00	14.46	14.82	14.89	16.00	21.01	21.23
3GPP Rel 6	HSUPA Subtest-1	15.16	15.12	14.95	16.50	15.37	15.27	15.40	16.50	21.76	21.61
3GPP Rel 6	HSUPA Subtest-2	13.04	13.32	13.19	14.50	13.11	13.43	13.33	14.50	19.50	19.87
3GPP Rel 6	HSUPA Subtest-3	13.92	14.15	14.21	15.50	14.25	14.15	14.41	15.50	20.76	20.80
3GPP Rel 6	HSUPA Subtest-4	13.12	13.00	13.10	14.50	13.34	13.21	13.02	14.50	19.82	19.56
3GPP Rel 6	HSUPA Subtest-5	14.91	14.67	15.11	16.50	15.22	15.08	15.32	16.50	21.76	21.59
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.34	12.51	12.64	14.00	12.82	12.66	12.70	14.00	19.16	19.12



Band 2 Ant 0																
BW (MHz)	Modulation	RB Size	RB Offset	Power Pilot Ch./Freq.	Power Data Ch./Freq.	Power Data Ch./Freq.	Time-up rate (dB)	MPE (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	16.64	16.99	16.82	17.5	0								
20	QPSK	1	49	16.76	16.70	16.64										
20	QPSK	1	99	16.54	16.56	16.54										
20	QPSK	50	0	16.62	16.95	16.82	17.5	0								
20	QPSK	50	24	16.68	16.82	16.80										
20	QPSK	50	49	16.45	16.50	16.50										
20	QPSK	100	0	16.71	16.95	16.88	17.5	0								
20	15QAM	1	0	16.78	16.85	16.77										
20	15QAM	1	49	16.53	16.60	16.59										
20	15QAM	1	99	16.78	16.82	16.86	17.5	0								
20	15QAM	50	0	16.65	16.77	16.69										
20	15QAM	50	24	16.64	16.60	16.59										
20	15QAM	50	50	16.78	16.82	16.85	17.5	0								
20	15QAM	100	0	16.63	16.87	16.79										
20	15QAM	100	0	16.63	16.70	16.59										
20	15QAM	1	49	16.56	16.56	16.49	17.5	0								
20	15QAM	1	99	16.40	16.46	16.44										
20	15QAM	50	0	16.54	16.50	16.50										
20	15QAM	50	24	16.78	16.72	16.80	17.5	0								
20	15QAM	50	50	16.91	16.78	16.91										
20	15QAM	100	0	16.62	16.80	16.62										
Channel																
Frequency (MHz)																
15	QPSK	1	0	16.31	16.73	16.63	17.5	0								
15	QPSK	1	49	16.71	16.70	16.64										
15	QPSK	1	74	16.31	16.53	16.27										
15	QPSK	36	0	16.54	16.70	16.48	17.5	0								
15	QPSK	36	20	16.44	16.50	16.48										
15	QPSK	36	39	16.78	16.36	16.40										
15	QPSK	75	0	16.48	16.67	16.50	17.5	0								
15	15QAM	1	0	16.57	16.51	16.49										
15	15QAM	1	37	16.30	16.18	16.13										
15	15QAM	1	74	16.52	16.62	16.35	17.5	0								
15	15QAM	36	0	16.58	16.40	16.27										
15	15QAM	36	20	16.53	16.53	16.08										
15	15QAM	36	39	16.57	16.54	16.79	17.5	0								
15	15QAM	75	0	16.41	16.76	16.62										
15	15QAM	1	0	16.58	16.47	16.56										
15	15QAM	1	37	16.44	16.32	16.38	17.5	0								
15	15QAM	1	74	16.38	16.62	16.25										
15	15QAM	36	0	16.48	16.60	16.27										
15	15QAM	36	20	16.44	16.76	16.58	17.5	0								
15	15QAM	36	39	16.40	16.38	16.41										
15	15QAM	75	0	16.40	16.30	16.59										
15	15QAM	75	0	16.59	16.60	16.56	17.5	0								
15	15QAM	1	0	16.59	16.60	16.56										
15	15QAM	1	37	16.57	16.40	16.35										
15	15QAM	1	74	16.50	16.60	16.35	17.5	0								
15	15QAM	36	0	16.50	16.44	16.45										
15	15QAM	36	20	16.52	16.50	16.40										
15	15QAM	36	39	16.45	16.42	16.62	17.5	0								
15	15QAM	75	0	16.19	16.50	16.23										
15	15QAM	75	0	16.19	16.50	16.23										
Channel																
Frequency (MHz)																
10	QPSK	1	0	16.40	16.40	16.40	17.5	0								
10	QPSK	1	25	16.50	16.55	16.25										
10	QPSK	1	49	16.23	16.53	16.19										
10	QPSK	1	74	16.40	16.40	16.40	17.5	0								
10	QPSK	25	12	16.50	16.44	16.44										
10	QPSK	25	25	16.61	16.19	16.45										
10	QPSK	1	0	16.54	16.36	16.45	17.5	0								
10	15QAM	1	0	16.54	16.36	16.45										
10	15QAM	1	25	16.23	16.09	16.39										
10	15QAM	1	49	16.36	16.49	16.25	17.5	0								
10	15QAM	25	0	16.53	16.40	16.29										
10	15QAM	25	12	16.45	16.33	16.64										
10	15QAM	25	25	16.52	16.43	16.68	17.5	0								
10	15QAM	50	0	16.34	16.50	16.33										
10	15QAM	1	0	16.54	16.48	16.41										
10	15QAM	1	25	16.31	16.31	16.06	17.5	0								
10	15QAM	1	49	16.18	16.40	16.27										
10	15QAM	25	0	16.46	16.60	16.50										
10	15QAM	25	12	16.33	16.40	16.28	17.5	0								
10	15QAM	25	25	16.47	16.40	16.42										
10	15QAM	50	0	16.49	16.75	16.53										
Channel																
Frequency (MHz)																
5	QPSK	1	0	16.12	16.51	16.38	17.5	0								
5	QPSK	1	12	16.42	16.54	16.09										
5	QPSK	1	24	16.15	16.50	16.25										
5	QPSK	1	49	16.21	16.50	16.20	17.5	0								
5	QPSK	12	7	16.46	16.44	16.47										
5	QPSK	12	13	16.41	16.14	16.29										
5	15QAM	1	0	16.54	16.48	16.32	17.5	0								
5	15QAM	1	0	16.48	16.22	16.42										
5	15QAM	1	12	16.14	16.00	16.10										
5	15QAM	1	49	16.23	16.40	16.14	17.5	0								
5	15QAM	12	0	16.44	16.26	16.17										
5	15QAM	12	7	16.29	16.21	16.49										
5	15QAM	12	13	16.44	16.22	16.37	17.5	0								
5	15QAM	25	0	16.18	16.08	16.08										
5	15QAM	25	0	16.49	16.36	16.23										
5	15QAM	1	0	16.49	16.36	16.23	17.5	0								
5	15QAM	1	49	16.36	16.23	16.23										
5	15QAM	1	24	16.01	16.08	16.15										
5	15QAM	12	0	16.48	16.55	16.39	17.5	0								
5	15QAM	12	7	16.36	16.46	16.48										
5	15QAM	12	13	16.25	16.32	16.54										
5	15QAM	25	0	16.31	16.73	16.31	17.5	0								
5	15QAM	25	0	16.31	16.73	16.31										
5	15QAM	25	0	16.31	16.73	16.31										
Channel																
Frequency (MHz)																
3	QPSK	1	0	16.10	16.40	16.40	17.5	0								
3	QPSK	1	1	16.39	16.36	16.30										
3	QPSK	1	14	16.15	16.44	16.34										
3	QPSK	8	0	16.09	16.48	16.19	17.5	0								
3	QPSK	8	4	16.27	16.39	16.29										
3	QPSK	8	8	16.14	16.34	16.24										
3	QPSK	16	0	16.43	16.37	16.00	17.5	0								
3	15QAM	1	0	16.42	16.06	16.04										
3	15QAM	1	8	16.39	16.15	16.18										
3	15QAM	1	16	16.09	16.01	16.03	17.5	0								
3	15QAM	1	14	16.20	16.43	16.02										
3	15QAM	8	0	16.39	16.15	16.13										
3	15QAM	8	4	16.09	16.48	16.12	17.5	0								
3	15QAM	8	8	16.42	16.06	16.38										
3	15QAM	16	0	16.11	16.59	16.22										
3	15QAM	16	4	16.09	16.48	16.17	17.5	0								
3	15QAM	16	8	16.15	16.02	15.98										
3	15QAM	1	14	15.97	16.05	16.03										
3	15QAM	1	16	16.03	16.03	16.03	17.5	0								
3	15QAM	8	4	15.94	16.13	15.95										
3	15QAM	8	7	16.05	16.24	16.08										
3	15QAM	16	0	16.05	16.55	16.15	17.5	0								
3	15QAM	16	0	16.05	16.55	16.15										
3	15QAM	16	0	16.05	16.55	16.15										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	16.06	16.23	16.26	17.5	0								
1.4	QPSK	1	1	16.05	16.23	16.26										
1.4	QPSK	1	5	16.13	16.04	16.13										
1.4	QPSK	3	0	16.04	16.29	16.20	17.5	0								
1.4	QPSK	3	1	16.04	16.24	16.17										
1.4	QPSK	3	3	16.36	16.04	16.27										
1.4	QPSK	6	0	16.39	16.33	16.03	17.5	0								
1.4	15QAM	1	0	16.07	16.02	16.03										
1.4	15QAM	1	1	16.07	16.04	16.03										
1.4	15QAM	1	5	16.11	16.11	16.11	17.5	0								
1.4	15QAM	3	1	16.07	16.04	16.03										
1.4	15QAM	3	1	16.07	16.04	16.03										
1.4	15QAM	3	1	16.07	16.04	16.03	17.5	0								
1.4	15QAM	6	0	16.18	16.04	16.03										
1.4	15QAM	6	0	16.18	16.04	16.03										
1.4	15QAM	3	1	16.25	16.07	16.18	17.5	0								
1.4	15QAM	6	0	16.25	16.07	16.18										
1.4	15QAM	6	0	16.25	16.07	16.18										
1.4	15QAM	3	1	16.31	16.24	16.17	17.5	0								
1.4	15QAM	3	1	16.31	16.24	16.17										
1.4	15QAM	3	1	16.31	16.24	16.17										
1.4	15QAM	3	1	16.31	16.24	16.17	17.5	0								
1.4	15QAM	6	0	16.34	15.88	15.92										
1.4	15QAM	6	0	16.34	15.88	15.92										
1.4	15QAM	3	1	16.33	15.93	15.93	17.5	0								
1.4	15QAM	3	1	16.33	15.93	15.93										
1.4	15QAM	3	1	16.33	15.93	15.93										
1.4	15QAM	3	1	16.36	16.15	15.92	17.5	0								
1.4	15QAM	6	0	16.36	16.15	15.92										
1.4	15QAM	6	0	16.36	16.15	15.92										
1.4	15QAM	3	1	16.40	16.05	16.05	17.5	0								
1.4	15QAM	3	1	16.40	16.05	16.05										
1.4	15QAM	3	1	16.40	16.05	16.05										
1.4	15QAM	6	0	16.02	16.47	16.17	17.5	0								
1.4	15QAM	6	0	16.02	16.47	16.17										
1.4	15QAM	6	0	16.02	16.47	16.17										

Band 12 Ant 0																
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / Freq 23000	Power Level Ch / Freq 23005	Power Level Ch / Freq 23100	Turn-up time (min)	MFR (dB)								
Channel																
Frequency (MHz)																
10	QPSK	1	0	23.41	23.47	23.21	24	0								
10	QPSK	1	25	23.17	23.26	23.36										
10	QPSK	1	49	23.25	23.22	23.22										
10	QPSK	25	0	22.20	22.49	22.23										
10	QPSK	25	12	22.26	22.29	22.25	23	1								
10	QPSK	25	25	22.21	22.30	22.25										
10	QPSK	50	0	22.12	22.45	22.29										
10	15QAM	1	0	22.40	22.35	22.40										
10	15QAM	1	25	22.29	22.32	22.25	23	1								
10	15QAM	1	49	22.29	22.32	22.25										
10	15QAM	25	0	21.46	21.54	21.41										
10	15QAM	25	12	21.43	21.43	21.52										
10	15QAM	50	0	21.37	21.37	21.32	22	2								
10	15QAM	50	25	21.28	21.41	21.48										
10	64QAM	1	0	21.25	21.26	21.40										
10	64QAM	1	25	21.24	21.28	21.34										
10	64QAM	1	49	21.23	21.34	21.45	22	2								
10	64QAM	25	0	20.27	20.49	20.32										
10	64QAM	25	12	20.32	20.35	20.38										
10	64QAM	25	25	20.18	20.38	20.29										
10	64QAM	50	0	20.42	20.25	20.36	21	3								
10	64QAM	50	25	20.18	20.38	20.29										
10	64QAM	50	50	20.42	20.25	20.36										
10	64QAM	50	50	20.42	20.25	20.36										
Channel																
Frequency (MHz)																
5	QPSK	1	0	23.29	23.35	23.11	24	0								
5	QPSK	1	12	23.05	23.20	23.23										
5	QPSK	1	24	23.19	23.17	23.07										
5	QPSK	12	0	22.07	22.42	22.12										
5	QPSK	12	7	22.12	22.11	22.11	23	1								
5	QPSK	12	13	22.13	22.20	22.22										
5	QPSK	25	0	21.97	22.40	22.35										
5	15QAM	1	0	22.06	22.29	22.37										
5	15QAM	1	12	22.27	22.19	22.23	23	1								
5	15QAM	1	24	22.17	22.20	22.12										
5	15QAM	12	7	21.35	21.31	21.42										
5	15QAM	12	13	21.33	21.29	21.26										
5	15QAM	25	0	21.19	21.36	21.31	22	2								
5	15QAM	25	12	21.28	21.31	21.42										
5	15QAM	25	25	21.19	21.29	21.26										
5	64QAM	1	0	21.19	21.32	21.21										
5	64QAM	1	12	21.19	21.18	21.04	22	2								
5	64QAM	1	24	21.18	21.13	21.08										
5	64QAM	12	0	20.14	20.36	20.25										
5	64QAM	12	7	20.19	20.23	20.26										
5	64QAM	12	13	20.10	20.29	20.14	21	3								
5	64QAM	25	0	19.27	19.55	19.25										
5	64QAM	25	0	19.27	19.55	19.25										
Channel																
Frequency (MHz)																
3	QPSK	1	0	23.28	23.31	23.10			24	0						
3	QPSK	1	8	23.03	23.14	23.07										
3	QPSK	1	14	23.20	23.13	23.08										
3	QPSK	8	0	22.08	22.26	22.16										
3	QPSK	8	4	22.21	22.20	22.11	23	1								
3	QPSK	8	7	22.09	22.24	22.12										
3	QPSK	15	0	22.04	22.26	22.16										
3	15QAM	1	0	22.27	22.25	22.26										
3	15QAM	1	8	22.13	22.15	22.24	23	1								
3	15QAM	1	14	22.21	22.22	22.21										
3	15QAM	8	0	21.37	21.42	21.30										
3	15QAM	8	4	21.37	21.37	21.46										
3	15QAM	8	7	21.30	21.29	21.20	22	2								
3	15QAM	15	0	21.30	21.25	21.40										
3	64QAM	1	0	21.13	21.26	21.32										
3	64QAM	1	8	21.11	21.15	21.00										
3	64QAM	1	14	21.10	21.09	21.07	22	2								
3	64QAM	8	0	20.18	20.37	20.27										
3	64QAM	8	4	20.22	20.21	20.33										
3	64QAM	8	7	20.00	20.34	20.17										
3	64QAM	15	0	19.24	19.61	19.39	20	3								
3	64QAM	15	0	19.24	19.61	19.39										
3	64QAM	15	0	19.24	19.61	19.39										
3	64QAM	15	0	19.24	19.61	19.39										
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	23.18	23.35	23.19	24	0								
1.4	QPSK	1	3	23.10	23.09	23.02										
1.4	QPSK	1	5	23.15	23.14	23.12										
1.4	QPSK	3	0	23.16	23.23	23.19										
1.4	QPSK	3	1	23.26	23.07	23.24	23	1								
1.4	QPSK	3	3	23.06	23.13	23.08										
1.4	QPSK	6	0	22.08	22.14	22.06										
1.4	15QAM	1	0	22.22	22.24	22.16										
1.4	15QAM	1	3	22.14	22.01	22.15	23	1								
1.4	15QAM	1	5	22.22	22.21	22.16										
1.4	15QAM	3	0	22.40	22.04	22.12										
1.4	15QAM	3	1	22.17	22.17	22.14										
1.4	15QAM	3	3	22.00	22.14	22.00	22	2								
1.4	15QAM	6	0	21.20	21.30	21.26										
1.4	64QAM	1	0	21.14	21.31	21.14										
1.4	64QAM	1	3	21.12	21.13	21.16										
1.4	64QAM	1	5	21.07	20.99	21.23	22	2								
1.4	64QAM	3	0	21.23	21.31	21.16										
1.4	64QAM	3	1	21.24	21.31	21.20										
1.4	64QAM	3	3	21.13	21.33	21.23										
1.4	64QAM	6	0	20.16	20.36	20.21	21	3								
1.4	64QAM	6	0	20.16	20.36	20.21										
1.4	64QAM	6	0	20.16	20.36	20.21										
1.4	64QAM	6	0	20.16	20.36	20.21										

Band 13 Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / F	Power Level Ch / F	Power Level Ch / F	Turn-on (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.10	23.10	23.10					
10	QPSK	1	25	23.16	23.16	23.16	24	0			
10	QPSK	1	49	23.14	23.14	23.14					
10	QPSK	1	73	23.20	23.20	23.20					
10	QPSK	24	12	23.21	23.21	23.21	23	1			
10	QPSK	25	25	23.25	23.25	23.25					
10	QPSK	25	49	23.25	23.25	23.25					
10	IQAM	0	0	22.25	22.25	22.25					
10	IQAM	1	25	22.23	22.23	22.23	23	1			
10	IQAM	25	49	22.18	22.18	22.18					
10	IQAM	25	73	22.19	22.19	22.19					
10	IQAM	25	12	21.32	21.32	21.32	22	2			
10	IQAM	25	25	21.30	21.30	21.30					
10	IQAM	25	49	21.31	21.31	21.31					
10	IQAM	1	25	21.19	21.19	21.19	22	2			
10	IQAM	25	49	21.26	21.26	21.26					
10	IQAM	25	0	20.35	20.35	20.35					
10	IQAM	25	0	20.21	20.21	20.21	21	3			
10	IQAM	25	73	20.27	20.27	20.27					
10	IQAM	25	0	20.31	20.31	20.31					
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.10	23.10	23.10					
5	QPSK	1	12	23.05	23.05	23.05	24	24			
5	QPSK	1	24	23.17	23.20	23.20					
5	QPSK	1	36	23.14	23.17	23.17					
5	QPSK	12	12	22.16	22.16	22.16	23	1			
5	QPSK	12	18	22.08	22.10	22.10					
5	QPSK	25	0	22.05	22.06	22.07					
5	QPSK	25	25	22.01	22.01	22.01					
5	IQAM	1	12	22.25	22.27	22.27					
5	IQAM	1	24	22.14	22.25	22.14					
5	IQAM	12	7	21.52	21.52	21.52	22	2			
5	IQAM	12	7	21.39	21.32	21.32					
5	IQAM	12	13	21.37	21.29	21.29					
5	IQAM	12	19	21.31	21.34	21.38					
5	IQAM	0	0	21.16	21.14	21.14					
5	IQAM	1	12	21.12	21.12	21.07	22	2			
5	IQAM	1	24	21.21	21.16	21.07					
5	IQAM	12	20	20.93	20.98	20.99					
5	IQAM	12	7	20.14	20.21	20.20	21	3			
5	IQAM	12	13	20.09	20.20	20.12					

Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	0	21.42	21.47	21.39	22.5	0	
20	QPSK	1	49	21.35	21.40	21.18			
20	QPSK	1	99	21.38	21.38	21.20			
20	QPSK	50	0	21.08	21.40	21.01			
20	QPSK	50	24	21.01	21.11	21.07	22.5	0	
20	QPSK	50	50	21.07	21.24	21.06			
20	QPSK	100	0	21.20	21.39	21.09			
20	16QAM	1	0	21.12	21.26	21.21			
20	16QAM	1	49	21.04	20.87	20.94	22.5	0	
20	16QAM	1	99	21.11	21.32	21.11			
20	16QAM	50	0	20.75	20.81	20.81			
20	16QAM	50	24	20.88	20.73	20.62			
20	16QAM	50	50	20.77	20.64	20.77	22	0.5	
20	16QAM	100	0	20.51	20.62	20.63			
20	64QAM	1	0	20.49	20.60	20.46			
20	64QAM	1	49	20.55	20.65	20.58			
20	64QAM	1	99	20.55	20.85	20.53	22	0.5	
20	64QAM	50	0	19.91	19.98	20.01			
20	64QAM	50	24	19.90	19.85	19.75			
20	64QAM	50	50	19.83	19.97	19.67			
20	64QAM	100	0	19.84	19.79	19.43	Tune-up limit (dBm)	MPR (dB)	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	21.39	21.34	21.26		22.5	
15	QPSK	1	37	21.31	21.42	21.10			
15	QPSK	1	74	21.24	21.31	21.10			
15	QPSK	36	0	20.87	21.26	20.93			
15	QPSK	36	20	20.98	21.07	20.86	22.5	0	
15	QPSK	36	39	21.01	21.16	20.92			
15	QPSK	75	0	21.07	21.19	20.96			
15	16QAM	1	0	21.12	21.09	21.13			
15	16QAM	1	37	20.83	20.66	20.83	22.5	0	
15	16QAM	1	74	21.11	21.15	21.09			
15	16QAM	36	0	20.69	20.63	20.67			
15	16QAM	36	20	20.70	20.64	20.51			
15	16QAM	36	39	20.86	20.48	20.90	22	0.5	
15	16QAM	75	0	20.38	20.55	20.49			
15	64QAM	1	0	20.50	20.40	20.33			
15	64QAM	1	37	20.53	20.48	20.48			
15	64QAM	1	74	20.44	20.82	20.41	22	0.5	
15	64QAM	36	0	19.90	19.78	19.81			
15	64QAM	36	20	19.84	19.82	19.70			
15	64QAM	36	39	19.71	19.94	19.63			
15	64QAM	75	0	19.72	19.65	19.42	Tune-up limit (dBm)	MPR (dB)	
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	21.34	21.19	21.24		22.5	
10	QPSK	1	25	21.30	21.24	21.08			
10	QPSK	1	49	21.07	21.11	20.99			
10	QPSK	25	0	20.87	21.22	20.72			
10	QPSK	25	12	20.81	20.99	20.75	22.5	0	
10	QPSK	25	25	21.03	21.00	20.83			
10	QPSK	50	0	20.99	21.10	20.96			
10	16QAM	1	0	21.05	21.05	21.02			
10	16QAM	1	25	20.77	20.62	20.70	22.5	0	
10	16QAM	1	49	20.95	20.96	20.97			
10	16QAM	25	0	20.62	20.60	20.56			
10	16QAM	25	12	20.49	20.44	20.39			
10	16QAM	25	25	20.82	20.36	20.75	22	0.5	
10	16QAM	50	0	20.39	20.40	20.38			
10	64QAM	1	0	20.33	20.31	20.28			
10	64QAM	1	25	20.32	20.40	20.41			
10	64QAM	1	49	20.39	20.75	20.42	21	1.5	
10	64QAM	25	0	19.72	19.56	19.80			
10	64QAM	25	12	19.72	19.84	19.64			
10	64QAM	25	25	19.64	19.88	19.49			
10	64QAM	50	0	19.68	19.65	19.42	Tune-up limit (dBm)	MPR (dB)	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	21.32	21.06	21.26		22.5	
5	QPSK	1	12	21.27	21.19	20.90			
5	QPSK	1	24	21.00	20.95	20.94			
5	QPSK	12	0	20.78	21.02	20.67			
5	QPSK	12	7	20.77	20.79	20.58	22.5	0	
5	QPSK	12	13	21.02	20.86	20.67			
5	QPSK	25	0	20.87	21.09	20.89			
5	16QAM	1	0	21.04	21.05	21.00			
5	16QAM	1	12	20.70	20.55	20.62	22.5	0	
5	16QAM	1	24	20.83	20.76	20.81			
5	16QAM	12	0	20.48	20.47	20.49			
5	16QAM	12	7	20.48	20.43	20.37			
5	16QAM	12	13	20.67	20.29	20.62	22	0.5	
5	16QAM	25	0	20.32	20.23	20.18			
5	64QAM	1	0	20.21	20.24	20.24			
5	64QAM	1	12	20.10	20.29	20.35			
5	64QAM	1	24	20.24	20.57	20.29	22	0.5	
5	64QAM	12	0	19.50	19.48	19.59			
5	64QAM	12	7	19.57	19.69	19.43			
5	64QAM	12	13	19.56	19.99	19.55			
5	64QAM	25	0	19.55	19.58	19.39	Tune-up limit (dBm)	MPR (dB)	

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Low Middle Ch / Freq.	Power Middle Ch / Freq.	Power High Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dbm)	MPR (db)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.42	21.56	21.64	21.60	21.47	22.5	0
20	QPSK	1	49	21.48	21.59	21.62	21.47	21.50		
20	QPSK	1	99	21.54	21.52	21.61	21.47	21.39		
20	QPSK	50	0	21.28	21.32	21.64	21.29	21.27		
20	QPSK	50	24	21.29	21.25	21.25	21.28	21.42	22.5	0
20	QPSK	50	50	21.24	21.30	21.38	21.34	21.43		
20	QPSK	100	0	21.39	21.34	21.62	21.32	21.35		
20	16QAM	1	0	21.27	21.35	21.35	21.45	21.44		
20	16QAM	1	49	21.43	21.35	21.17	21.11	21.17	22.5	0
20	16QAM	1	99	21.36	21.21	21.56	21.36	21.21		
20	16QAM	50	0	20.96	20.97	21.03	20.96	21.09		
20	16QAM	50	24	20.89	21.07	20.97	20.85	21.04		
20	16QAM	50	50	21.02	21.07	20.87	21.01	20.93	22	0.5
20	16QAM	100	0	20.99	20.77	20.76	20.84	20.97		
20	64QAM	1	0	20.64	20.55	20.88	20.66	20.65		
20	64QAM	1	49	20.65	20.68	20.77	20.81	20.71		
20	64QAM	1	99	20.95	20.77	21.01	20.60	20.74	22	0.5
20	64QAM	50	0	19.93	20.12	20.11	20.10	19.86		
20	64QAM	50	24	20.07	20.08	20.09	20.02	19.96		
20	64QAM	50	50	19.94	20.11	20.19	19.92	19.82		
20	64QAM	100	0	19.91	19.94	20.02	19.75	19.75	Tune-up limit (dBm)	MPR (dB)
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.27	21.50	21.45	21.61	21.40	22.50	0
15	QPSK	1	37	21.37	21.61	21.59	21.31	21.46		
15	QPSK	1	74	21.35	21.40	21.61	21.39	21.36		
15	QPSK	36	0	21.20	21.27	21.58	21.13	21.27		
15	QPSK	36	20	21.13	21.16	21.14	21.25	21.44	22.5	0
15	QPSK	36	39	21.10	21.27	21.25	21.35	21.28		
15	QPSK	75	0	21.21	21.17	21.43	21.24	21.26		
15	16QAM	1	0	21.28	21.24	21.22	21.40	21.22		
15	16QAM	1	37	21.33	21.28	21.09	20.96	20.95	22.5	0
15	16QAM	1	74	21.15	21.13	21.42	21.24	21.05		
15	16QAM	36	0	20.79	20.80	20.90	20.94	20.94		
15	16QAM	36	20	20.68	21.07	20.87	20.67	20.98		
15	16QAM	36	39	21.01	20.95	20.70	21.00	20.76	22	0.5
15	16QAM	75	0	20.83	20.63	20.62	20.70	20.83		
15	16QAM	1	0	20.48	20.53	20.77	20.62	20.50		
15	64QAM	1	37	20.55	20.48	20.72	20.71	20.55		
15	64QAM	1	74	20.85	20.58	20.88	20.39	20.73	22	0.5
15	64QAM	36	0	19.77	20.02	19.91	19.96	19.81		
15	64QAM	36	20	19.87	20.03	20.10	20.03	19.95		
15	64QAM	36	39	19.82	19.90	20.04	19.85	19.79		
15	64QAM	75	0	19.73	19.89	19.80	19.67	19.66	21	1.5
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.10	21.30	21.43	21.59	21.24	22.50	0
10	QPSK	1	25	21.19	21.49	21.56	21.31	21.28		
10	QPSK	1	49	21.30	21.27	21.49	21.22	21.21		
10	QPSK	25	0	21.21	21.21	21.49	21.13	21.09		
10	QPSK	25	12	21.14	21.16	21.14	21.16	21.33	22.5	0
10	QPSK	25	25	21.01	21.25	21.27	21.18	21.12		
10	QPSK	50	0	21.14	21.11	21.36	21.13	21.20		
10	16QAM	1	0	21.27	21.16	21.03	21.34	21.10		
10	16QAM	1	25	21.26	21.10	21.13	21.15	21.16	22.5	0
10	16QAM	1	49	20.99	21.12	21.29	21.22	21.07		
10	16QAM	25	0	20.68	20.72	20.76	20.76	20.73		
10	16QAM	25	12	20.52	20.98	20.72	20.67	20.82		
10	16QAM	25	25	21.02	20.82	20.59	20.97	20.65	22	0.5
10	16QAM	50	0	20.61	20.45	20.56	20.56	20.86		
10	64QAM	1	0	20.39	20.53	20.77	20.55	20.45		
10	64QAM	1	25	20.40	20.42	20.64	20.55	20.43		
10	64QAM	1	49	20.64	20.41	20.70	20.29	20.63	22	0.5
10	64QAM	25	0	19.62	19.87	19.69	19.97	19.78		
10	64QAM	25	12	19.84	19.97	19.95	20.03	19.90		
10	64QAM	25	25	19.74	19.73	19.86	19.79	19.73		
10	64QAM	50	0	19.65	19.89	19.71	19.61	19.55	Tune-up limit (dBm)	MPR (dB)
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2499.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	21.08	21.14	21.41	21.41	21.05	22.50	0
5	QPSK	1	12	21.13	21.31	21.47	21.17	21.17		
5	QPSK	1	24	21.28	21.29	21.39	21.05	21.19		
5	QPSK	12	0	21.22	21.18	21.28	21.06	21.02		
5	QPSK	12	7	21.14	21.17	21.06	21.00	21.27	22.5	0
5	QPSK	12	13	20.80	21.17	21.24	21.16	21.02		
5	QPSK	25	0	20.93	20.94	21.18	21.12	21.16		
5	16QAM	1	0	21.20	21.08	20.83	21.20	20.94		
5	16QAM	1	12	21.05	20.94	21.05	21.02	20.94	22.5	0
5	16QAM	1	24	20.88	21.11	21.14	21.02	21.02		
5	16QAM	12	0	20.50	20.74	20.73	20.55	20.65		
5	16QAM	12	7	20.51	20.78	20.51	20.49	20.65		
5	16QAM	12	13	20.81	20.63	20.56	20.89	20.63	22	0.5
5	16QAM	25	0	20.60	20.41	20.53	20.39	20.74		
5	64QAM	1	0	20.34	20.48	20.65	20.35	20.46		
5	64QAM	1	12	20.23	20.33	20.45	20.43	20.41		
5	64QAM	1	24	20.55	20.36	20.64	20.16	20.55	22	0.5
5	64QAM	12	0	19.52	19.86	19.67	19.83	19.77		
5	64QAM	12	7	19.85	19.91	19.74	19.99	19.84		
5	64QAM	12	13	19.57	19.67	19.72	19.57	19.70		
5	64QAM	25	0	19.45	19.81	19.52	19.62	19.46	21	1.5

Reduced Power Mode for Hotspot on



Band 2 Ant 0																
BW (MHz)	Modulation	RB Size	RB Offset	Power Pilot Ch./F.Freq.	Power Data Ch./F.Freq.	Power Data Ch./F.Freq.	Time-up rate (dB)	MPE (dB)								
Channel																
Frequency (MHz)																
20	QPSK	1	0	14.61	15.04	14.90	15.5	0								
20	QPSK	1	49	14.65	14.73	14.83										
20	QPSK	1	99	14.58	14.72	14.87										
20	QPSK	50	0	14.62	15.03	14.89										
20	QPSK	50	24	14.76	14.75	14.88	15.5	0								
20	QPSK	50	0	14.61	14.64	14.87										
20	QPSK	100	0	14.72	14.98	14.81										
20	15QAM	1	0	14.72	14.92	14.68										
20	15QAM	50	0	14.56	14.54	14.55	15.5	0								
20	15QAM	1	99	14.61	14.87	14.73										
20	15QAM	50	0	14.53	14.72	14.72										
20	15QAM	50	24	14.64	14.76	14.85										
20	15QAM	50	50	14.68	14.79	14.89	15.5	0								
20	15QAM	100	0	14.69	14.94	14.64										
20	15QAM	1	0	14.61	14.74	14.50										
20	15QAM	1	49	14.55	14.82	14.52										
20	15QAM	1	99	14.45	14.54	14.61	15.5	0								
20	15QAM	50	0	14.56	14.63	14.67										
20	15QAM	50	24	14.82	14.81	14.73										
20	15QAM	50	50	14.88	14.79	14.93										
20	15QAM	100	0	14.76	14.79	14.83	15.5	0								
Channel																
Frequency (MHz)																
15	QPSK	1	0	14.59	15.03	14.88	15.5	0								
15	QPSK	1	49	14.57	14.83	14.69										
15	QPSK	1	74	14.66	14.63	14.69										
15	QPSK	36	0	14.51	14.74	14.71										
15	QPSK	36	20	14.76	14.61	14.75	15.5	0								
15	QPSK	36	39	14.78	14.57	14.44										
15	QPSK	75	0	14.62	14.78	14.75										
15	15QAM	1	0	14.73	14.78	14.66										
15	15QAM	1	37	14.56	14.47	14.50	15.5	0								
15	15QAM	1	74	14.61	14.73	14.67										
15	15QAM	36	0	14.64	14.67	14.67										
15	15QAM	36	20	14.92	14.68	14.77										
15	15QAM	36	39	14.66	14.68	14.79	15.5	0								
15	15QAM	75	0	14.69	14.90	14.87										
15	15QAM	1	0	14.60	14.65	14.76										
15	15QAM	1	37	14.34	14.47	14.32										
15	15QAM	1	74	14.40	14.54	14.45	15.5	0								
15	15QAM	36	0	14.67	14.67	14.67										
15	15QAM	36	20	14.75	14.70	14.71										
15	15QAM	36	39	14.88	14.80	14.82										
15	15QAM	75	0	14.73	14.54	14.63	15.5	0								
Channel																
Frequency (MHz)																
10	QPSK	1	0	14.55	14.46	14.78	15.5	0								
10	QPSK	1	25	14.36	14.59	14.56										
10	QPSK	1	49	14.67	14.62	14.65										
10	QPSK	25	0	14.52	14.68	14.67										
10	QPSK	25	12	14.97	14.55	14.65	15.5	0								
10	QPSK	25	25	14.63	14.46	14.29										
10	QPSK	25	49	14.61	14.57	14.59										
10	15QAM	1	0	14.68	14.64	14.65										
10	15QAM	1	25	14.43	14.25	14.32	15.5	0								
10	15QAM	1	49	14.50	14.39	14.35										
10	15QAM	25	0	14.62	14.46	14.51										
10	15QAM	25	12	14.83	14.31	14.79										
10	15QAM	25	25	14.64	14.51	14.66	15.5	0								
10	15QAM	50	0	14.59	14.78	14.69										
10	15QAM	1	0	14.54	14.57	14.69										
10	15QAM	1	25	14.26	14.38	14.21										
10	15QAM	1	49	14.40	14.47	14.45	15.5	0								
10	15QAM	25	0	14.73	14.68	14.59										
10	15QAM	25	12	14.73	14.69	14.65										
10	15QAM	25	25	14.77	14.68	14.75										
10	15QAM	50	0	14.59	14.40	14.64	15.5	0								
Channel																
Frequency (MHz)																
5	QPSK	1	0	14.53	14.66	14.60	15.5	0								
5	QPSK	1	12	14.37	14.54	14.59										
5	QPSK	1	24	14.46	14.59	14.56										
5	QPSK	12	0	14.48	14.48	14.54										
5	QPSK	12	7	14.50	14.35	14.64	15.5	0								
5	QPSK	12	13	14.54	14.43	14.35										
5	QPSK	25	0	14.43	14.60	14.59										
5	15QAM	1	0	14.51	14.55	14.62										
5	15QAM	1	12	14.29	14.23	14.21	15.5	0								
5	15QAM	1	24	14.55	14.46	14.45										
5	15QAM	12	0	14.33	14.28	14.42										
5	15QAM	12	7	14.72	14.60	14.69										
5	15QAM	12	13	14.49	14.38	14.45	15.5	0								
5	15QAM	25	0	14.47	14.75	14.54										
5	15QAM	1	0	14.41	14.47	14.57										
5	15QAM	1	12	14.55	14.33	14.39										
5	15QAM	1	24	14.38	14.40	14.35	15.5	0								
5	15QAM	12	0	14.71	14.65	14.62										
5	15QAM	12	7	14.76	14.59	14.68										
5	15QAM	12	13	14.58	14.68	14.65										
5	15QAM	25	0	14.44	14.34	14.59	15.5	0								
Channel																
Frequency (MHz)																
3	QPSK	1	0	14.39	14.51	14.54	15.5	0								
3	QPSK	1	8	14.36	14.39	14.51										
3	QPSK	1	14	14.27	14.48	14.52										
3	QPSK	8	0	14.27	14.44	14.38										
3	QPSK	8	4	14.40	14.32	14.65	15.5	0								
3	QPSK	8	7	14.50	14.38	14.20										
3	QPSK	16	0	14.38	14.42	14.36										
3	15QAM	1	0	14.46	14.56	14.56										
3	15QAM	1	8	14.23	14.17	14.11	15.5	0								
3	15QAM	1	14	14.56	14.40	14.37										
3	15QAM	8	0	14.29	14.18	14.31										
3	15QAM	8	4	14.51	14.46	14.50	15.5	0								
3	15QAM	8	7	14.40	14.39	14.46										
3	15QAM	16	0	14.47	14.70	14.68										
3	15QAM	16	8	14.52	14.35	14.43										
3	15QAM	1	0	13.99	14.31	14.31	15.5	0								
3	15QAM	1	14	14.26	14.39	14.34										
3	15QAM	8	0	14.43	14.28	14.32										
3	15QAM	8	4	14.58	14.62	14.57										
3	15QAM	8	7	14.44	14.64	14.58	15.5	0								
3	15QAM	16	0	14.40	14.53	14.48										
3	15QAM	1	0	14.20	14.28	14.37										
3	15QAM	1	14	14.08	14.23	14.08										
3	15QAM	1	8	14.25	14.38	14.32	15.5	0								
3	15QAM	1	14	14.04	14.30	14.23										
3	15QAM	8	0	14.38	14.52	14.24										
3	15QAM	8	4	14.49	14.53	14.48										
3	15QAM	8	7	14.35	14.40	14.44	15.5	0								
Channel																
Frequency (MHz)																
1.4	QPSK	1	0	14.28	14.34	14.35	15.5	0								
1.4	QPSK	1	8	14.25	14.28	14.30										
1.4	QPSK	1	5	14.27	14.36	14.46										
1.4	QPSK	3	0	14.20	14.46	14.31										
1.4	QPSK	3	8	14.20	14.46	14.31	15.5	0								
1.4	QPSK	3	5	14.40	14.37	14.01										
1.4	QPSK	6	0	14.24	14.26	14.00										
1.4	15QAM	1	0	14.11	14.07	14.12										
1.4	15QAM	1	8	14.45	14.33	14.30	15.5	0								
1.4	15QAM	1	5	14.36	14.38	14.34										
1.4	15QAM	3	0	14.51	14.30	14.36										
1.4	15QAM	3	8	14.28	14.32	14.38										
1.4	15QAM	6	0	14.43	14.53	14.43	15.5	0								
1.4	15QAM	1	0	14.20	14.28	14.37										
1.4	15QAM	1	8	14.08	14.23	14.08										
1.4	15QAM	1	5	14.25	14.38	14.32										
1.4	15QAM	3	0	14.04	14.30	14.23	15.5	0								
1.4	15QAM	3	8	14.38	14.52	14.24										
1.4	15QAM	6	0	14.35	14.40	14.42										

Band 12 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freq 23005	Power Mod Ch / Freq 23009	Power Mod Ch / Freq 23121	Turn-up Time (min)	MFR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.41	23.47	23.21	24	0						
10	QPSK	1	25	23.17	23.26	23.36								
10	QPSK	1	49	23.25	23.22	23.12								
10	QPSK	25	0	22.20	22.49	22.23								
10	QPSK	25	12	22.26	22.29	22.25	23	1						
10	QPSK	25	25	22.31	22.30	22.28								
10	QPSK	50	0	22.12	22.45	22.29								
10	15QAM	1	0	22.40	22.35	22.40								
10	15QAM	1	25	22.29	22.32	22.25	23	1						
10	15QAM	1	49	22.29	22.32	22.25								
10	15QAM	25	0	21.46	21.54	21.41								
10	15QAM	25	12	21.43	21.43	21.52								
10	15QAM	50	0	21.37	21.37	21.32	22	2						
10	15QAM	50	25	21.28	21.43	21.48								
10	64QAM	1	0	21.25	21.28	21.34								
10	64QAM	1	25	21.24	21.28	21.34								
10	64QAM	1	49	21.23	21.34	21.45	22	2						
10	64QAM	25	0	20.27	20.49	20.32								
10	64QAM	25	12	20.32	20.35	20.38								
10	64QAM	25	25	20.18	20.38	20.29								
10	64QAM	50	0	20.02	20.25	20.06	21	3						
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.29	23.35	23.11	24	0						
5	QPSK	1	12	23.05	23.20	23.23								
5	QPSK	1	24	23.19	23.17	23.07								
5	QPSK	12	0	22.07	22.42	22.12								
5	QPSK	12	7	22.12	22.11	22.16	23	1						
5	QPSK	12	13	22.13	22.20	22.19								
5	QPSK	25	0	21.97	22.40	22.15								
5	15QAM	1	0	22.05	22.15	22.12								
5	15QAM	1	12	22.27	22.19	22.23	23	1						
5	15QAM	1	24	22.17	22.20	22.12								
5	15QAM	12	0	21.34	21.49	21.30								
5	15QAM	12	7	21.25	21.31	21.42								
5	15QAM	12	13	21.33	21.29	21.26	22	2						
5	15QAM	25	0	21.19	21.32	21.31								
5	64QAM	1	0	21.19	21.32	21.31								
5	64QAM	1	12	21.19	21.18	21.04								
5	64QAM	1	24	21.18	21.13	21.08	21	3						
5	64QAM	12	0	20.14	20.36	20.25								
5	64QAM	12	7	20.19	20.23	20.24								
5	64QAM	12	13	20.10	20.29	20.14								
5	64QAM	25	0	19.27	19.55	19.25	21	3						
Channel														
Frequency (MHz)														
3	QPSK	1	0	23.28	23.31	23.10	24	0						
3	QPSK	1	8	23.03	23.14	23.07								
3	QPSK	1	14	23.20	23.13	23.08								
3	QPSK	8	0	22.08	22.25	22.16								
3	QPSK	8	4	22.21	22.20	22.11	23	1						
3	QPSK	15	0	22.04	22.26	22.16								
3	15QAM	1	0	22.27	22.25	22.26								
3	15QAM	1	8	22.13	22.15	22.14								
3	15QAM	1	14	22.21	22.22	22.21	22	2						
3	15QAM	8	0	21.37	21.42	21.30								
3	15QAM	8	4	21.37	21.37	21.46								
3	15QAM	8	7	21.30	21.29	21.20								
3	15QAM	15	0	21.50	21.25	21.40	22	2						
3	64QAM	1	0	21.13	21.26	21.32								
3	64QAM	1	8	21.11	21.15	21.00								
3	64QAM	1	14	21.10	21.09	21.07								
3	64QAM	8	0	20.18	20.37	20.27	21	3						
3	64QAM	8	4	20.22	20.21	20.33								
3	64QAM	8	7	20.00	20.34	20.17								
3	64QAM	15	0	19.24	19.61	19.39								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.18	23.35	23.15	24	0						
1.4	QPSK	1	3	23.10	23.09	23.02								
1.4	QPSK	1	5	23.15	23.14	23.12								
1.4	QPSK	3	0	23.16	23.23	23.19								
1.4	QPSK	3	1	23.26	23.07	23.24	23	1						
1.4	QPSK	3	3	23.06	23.13	23.08								
1.4	QPSK	6	0	22.08	22.14	22.06								
1.4	15QAM	1	0	22.22	22.26	22.10								
1.4	15QAM	1	3	22.14	22.01	22.15	23	1						
1.4	15QAM	1	5	22.22	22.41	22.16								
1.4	15QAM	3	0	22.40	22.04	22.12								
1.4	15QAM	3	1	22.17	22.17	22.14								
1.4	15QAM	3	3	22.00	22.14	22.00	22	2						
1.4	15QAM	6	0	21.20	21.30	21.26								
1.4	64QAM	1	0	21.14	21.31	21.14								
1.4	64QAM	1	3	21.12	21.13	21.16								
1.4	64QAM	1	5	21.07	20.99	21.23	22	2						
1.4	64QAM	3	0	21.23	21.31	21.16								
1.4	64QAM	3	1	21.24	21.31	21.20								
1.4	64QAM	3	3	21.13	21.33	21.23								
1.4	64QAM	6	0	20.16	20.36	20.21	21	3						

Band 13 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power/Line Ch / Freq	Power/Modulation Ch / Freq	Power/Modulation Ch / Freq	Turn-up Time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.40			24	0		
10	QPSK	1	25	23.16						
10	QPSK	1	49	23.14						
10	QPSK	25	0	22.39						
10	QPSK	25	12	22.21			23	1		
10	QPSK	25	25	22.25						
10	QPSK	50	0	22.35						
10	15QAM	1	0	22.25						
10	15QAM	1	25	22.23			23	1		
10	15QAM	1	49	22.18						
10	15QAM	25	0	21.45						
10	15QAM	25	12	21.32						
10	15QAM	50	0	21.30			22	2		
10	15QAM	50	25	21.30						
10	64QAM	1	0	21.32						
10	64QAM	1	25	21.19						
10	64QAM	1	49	21.28			22	2		
10	64QAM	25	0	20.35						
10	64QAM	25	12	20.21						
10	64QAM	25	25	20.27						
10	64QAM	50	0	20.31			21	3		
10	64QAM	50	25	20.27						
10	64QAM	50	50	20.21						
10	64QAM	50	75	20.27						
Channel										
Frequency (MHz)				774.5	774.5	774.5	Turn-up Time (min)	MPE (dB)		
5	QPSK	1	0	23.40			24	0		
5	QPSK	1	12	23.05						
5	QPSK	1	24	23.17						
5	QPSK	1	36	23.17						
5	QPSK	12	0	22.46			23	1		
5	QPSK	12	12	22.16						
5	QPSK	12	24	22.16						
5	QPSK	12	36	22.08						
5	QPSK	24	0	22.02			23	1		
5	QPSK	24	12	22.31						
5	QPSK	24	24	22.31						
5	QPSK	24	36	22.17						
5	15QAM	1	12	22.25			23	1		
5	15QAM	1	24	22.14						
5	15QAM	1	36	22.14						
5	15QAM	12	7	21.38						
5	15QAM	12	19	21.32			22	2		
5	15QAM	12	31	21.37						
5	15QAM	12	43	21.34						
5	15QAM	12	55	21.16						
5	15QAM	12	67	21.14			22	2		
5	15QAM	1	24	22.21						
5	15QAM	1	36	22.21						
5	15QAM	12	20	20.50						
5	64QAM	12	7	20.44			21	3		
5	64QAM	12	19	20.59						
5	64QAM	12	31	20.56						
5	64QAM	12	43	20.49						

Band 38 Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	21.42	21.47	21.39	22.5	0
20	QPSK	1	49	21.35	21.40	21.18		
20	QPSK	1	99	21.38	21.38	21.20		
20	QPSK	50	0	21.08	21.40	21.01		
20	QPSK	50	24	21.01	21.11	21.07	22.5	0
20	QPSK	50	50	21.07	21.24	21.06		
20	QPSK	100	0	21.20	21.39	21.09		
20	16QAM	1	0	21.12	21.26	21.21		
20	16QAM	1	49	21.04	20.87	20.94	22.5	0
20	16QAM	1	99	21.11	21.32	21.11		
20	16QAM	50	0	20.75	20.81	20.81		
20	16QAM	50	24	20.88	20.73	20.62		
20	16QAM	50	50	20.77	20.64	20.77	22	0.5
20	16QAM	100	0	20.51	20.62	20.63		
20	64QAM	1	0	20.49	20.60	20.46		
20	64QAM	1	49	20.55	20.65	20.58		
20	64QAM	1	99	20.55	20.85	20.53	22	0.5
20	64QAM	50	0	19.91	19.98	20.01		
20	64QAM	50	24	19.90	19.85	19.75		
20	64QAM	50	50	19.83	19.97	19.67		
20	64QAM	100	0	19.84	19.79	19.43	Tune-up limit (dBm)	MPR (dB)
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5	22.5	0
15	QPSK	1	0	21.39	21.34	21.26		
15	QPSK	1	37	21.31	21.42	21.10		
15	QPSK	1	74	21.24	21.31	21.10		
15	QPSK	36	0	20.87	21.26	20.93	22.5	0
15	QPSK	36	20	20.98	21.07	20.86		
15	QPSK	36	39	21.01	21.16	20.92		
15	QPSK	75	0	21.07	21.19	20.96		
15	16QAM	1	0	21.12	21.09	21.13	22.5	0
15	16QAM	1	37	20.83	20.66	20.83		
15	16QAM	1	74	21.11	21.15	21.09		
15	16QAM	36	0	20.69	20.63	20.67		
15	16QAM	36	20	20.70	20.64	20.51	22	0.5
15	16QAM	36	39	20.86	20.48	20.90		
15	16QAM	75	0	20.38	20.55	20.49		
15	16QAM	1	0	20.50	20.40	20.33		
15	64QAM	1	37	20.53	20.48	20.48	22	0.5
15	64QAM	1	74	20.44	20.82	20.41		
15	64QAM	36	0	19.90	19.78	19.81		
15	64QAM	36	20	19.84	19.82	19.70		
15	64QAM	36	39	19.71	19.94	19.63	21	1.5
15	64QAM	75	0	19.72	19.65	19.42		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615	22.5	0
10	QPSK	1	0	21.34	21.19	21.24		
10	QPSK	1	25	21.30	21.24	21.08		
10	QPSK	1	49	21.07	21.11	20.99		
10	QPSK	25	0	20.87	21.22	20.72	22.5	0
10	QPSK	25	12	20.81	20.99	20.75		
10	QPSK	25	25	21.03	21.00	20.83		
10	QPSK	50	0	20.99	21.10	20.96		
10	16QAM	1	0	21.05	21.05	21.02	22.5	0
10	16QAM	1	25	20.77	20.62	20.70		
10	16QAM	1	49	20.95	20.96	20.97		
10	16QAM	25	0	20.62	20.60	20.56		
10	16QAM	25	12	20.49	20.44	20.39	22	0.5
10	16QAM	25	25	20.82	20.36	20.75		
10	16QAM	50	0	20.39	20.40	20.38		
10	64QAM	1	0	20.33	20.31	20.28		
10	64QAM	1	25	20.32	20.40	20.41	22	0.5
10	64QAM	1	49	20.39	20.75	20.42		
10	64QAM	25	0	19.72	19.56	19.80		
10	64QAM	25	12	19.72	19.84	19.64		
10	64QAM	25	25	19.64	19.88	19.49	21	1.5
10	64QAM	50	0	19.68	19.65	19.42		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5	22.5	0
5	QPSK	1	0	21.32	21.06	21.26		
5	QPSK	1	12	21.27	21.19	20.90		
5	QPSK	1	24	21.00	20.95	20.94		
5	QPSK	12	0	20.78	21.02	20.67	22.5	0
5	QPSK	12	7	20.77	20.79	20.58		
5	QPSK	12	13	21.02	20.86	20.67		
5	QPSK	25	0	20.87	21.09	20.89		
5	16QAM	1	0	21.04	21.05	21.00	22.5	0
5	16QAM	1	12	20.70	20.55	20.62		
5	16QAM	1	24	20.83	20.76	20.81		
5	16QAM	12	0	20.48	20.47	20.49		
5	16QAM	12	7	20.48	20.43	20.37	22	0.5
5	16QAM	12	13	20.67	20.29	20.62		
5	16QAM	25	0	20.32	20.23	20.18		
5	64QAM	1	0	20.21	20.24	20.24		
5	64QAM	1	12	20.10	20.29	20.35	22	0.5
5	64QAM	1	24	20.24	20.57	20.29		
5	64QAM	12	0	19.50	19.48	19.59		
5	64QAM	12	7	19.57	19.69	19.43		
5	64QAM	12	13	19.56	19.89	19.55	21	1.5
5	64QAM	25	0	19.55	19.58	19.39		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.42	21.56	21.64	21.60	21.47	22.5	0
20	QPSK	1	49	21.48	21.59	21.62	21.47	21.50		
20	QPSK	1	99	21.54	21.52	21.61	21.47	21.39		
20	QPSK	50	0	21.28	21.32	21.64	21.29	21.27		
20	QPSK	50	24	21.29	21.25	21.25	21.28	21.42	22.5	0
20	QPSK	50	50	21.24	21.30	21.38	21.34	21.43		
20	QPSK	100	0	21.39	21.34	21.62	21.32	21.35		
20	16QAM	1	0	21.27	21.35	21.35	21.45	21.44		
20	16QAM	1	49	21.43	21.35	21.17	21.11	21.17	22.5	0
20	16QAM	1	99	21.36	21.21	21.56	21.36	21.21		
20	16QAM	50	0	20.96	20.97	21.03	20.96	21.09		
20	16QAM	50	24	20.89	21.07	20.97	20.85	21.04		
20	16QAM	50	50	21.02	21.07	20.87	21.01	20.93	22	0.5
20	16QAM	100	0	20.99	20.77	20.76	20.84	20.97		
20	64QAM	1	0	20.64	20.55	20.88	20.66	20.65		
20	64QAM	1	49	20.65	20.68	20.77	20.81	20.71		
20	64QAM	1	99	20.95	20.77	21.01	20.60	20.74	22	0.5
20	64QAM	50	0	19.93	20.12	20.11	20.10	19.86		
20	64QAM	50	24	20.07	20.08	20.09	20.02	19.96		
20	64QAM	50	50	19.94	20.11	20.19	19.92	19.82		
20	64QAM	100	0	19.91	19.94	20.02	19.75	19.75	21	1.5
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Turn-up limit (dBm)	MPR (dB)
15	QPSK	1	0	21.27	21.50	21.45	21.61	21.40	22.50	0
15	QPSK	1	37	21.37	21.61	21.59	21.31	21.46		
15	QPSK	1	74	21.35	21.40	21.61	21.39	21.36		
15	QPSK	36	0	21.20	21.27	21.58	21.13	21.27		
15	QPSK	36	20	21.13	21.16	21.14	21.25	21.44	22.5	0
15	QPSK	36	39	21.10	21.27	21.25	21.35	21.28		
15	QPSK	75	0	21.21	21.17	21.43	21.24	21.26		
15	16QAM	1	0	21.28	21.24	21.22	21.40	21.22		
15	16QAM	1	37	21.33	21.28	21.09	20.96	20.95	22.5	0
15	16QAM	1	74	21.15	21.13	21.42	21.24	21.05		
15	16QAM	36	0	20.79	20.80	20.90	20.94	20.94		
15	16QAM	36	20	20.68	21.07	20.87	20.67	20.98		
15	16QAM	36	39	21.01	20.95	20.70	21.00	20.76	22	0.5
15	16QAM	75	0	20.83	20.63	20.62	20.70	20.93		
15	64QAM	1	0	20.48	20.53	20.77	20.62	20.50		
15	64QAM	1	37	20.55	20.48	20.72	20.71	20.55		
15	64QAM	1	74	20.85	20.58	20.88	20.39	20.73	22	0.5
15	64QAM	36	0	19.77	20.02	19.91	19.96	19.81		
15	64QAM	36	20	19.87	20.03	20.10	20.03	19.95		
15	64QAM	36	39	19.82	19.90	20.04	19.85	19.79		
15	64QAM	75	0	19.73	19.89	19.80	19.67	19.66	21	1.5
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685	Turn-up limit (dBm)	MPR (dB)
10	QPSK	1	0	21.10	21.30	21.43	21.59	21.24	22.50	0
10	QPSK	1	25	21.19	21.49	21.56	21.31	21.28		
10	QPSK	1	49	21.30	21.27	21.49	21.22	21.21		
10	QPSK	25	0	21.21	21.21	21.49	21.13	21.09		
10	QPSK	25	12	21.14	21.16	21.14	21.16	21.33	22.5	0
10	QPSK	25	25	21.01	21.25	21.27	21.18	21.12		
10	QPSK	50	0	21.14	21.11	21.36	21.13	21.20		
10	16QAM	1	0	21.27	21.16	21.03	21.34	21.10		
10	16QAM	1	25	21.26	21.10	21.13	21.15	21.16	22.5	0
10	16QAM	1	49	20.99	21.12	21.29	21.22	21.07		
10	16QAM	25	0	20.68	20.72	20.76	20.76	20.73		
10	16QAM	25	12	20.52	20.98	20.72	20.67	20.82		
10	16QAM	25	25	21.02	20.82	20.59	20.97	20.65	22	0.5
10	16QAM	50	0	20.61	20.45	20.56	20.56	20.86		
10	64QAM	1	0	20.39	20.53	20.77	20.55	20.45		
10	64QAM	1	25	20.40	20.42	20.64	20.55	20.43		
10	64QAM	1	49	20.64	20.41	20.70	20.29	20.63	22	0.5
10	64QAM	25	0	19.62	19.87	19.69	19.87	19.78		
10	64QAM	25	12	19.84	19.97	19.95	20.03	19.90		
10	64QAM	25	25	19.74	19.73	19.86	19.79	19.73		
10	64QAM	50	0	19.65	19.89	19.71	19.61	19.55	21	1.5
Channel				39675	40146	40620	41093	41565		
Frequency (MHz)				2498.5	2545.4	2593	2640.30	2687.5	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	0	21.08	21.14	21.41	21.41	21.05	22.50	0
5	QPSK	1	12	21.13	21.31	21.47	21.17	21.14		
5	QPSK	1	24	21.28	21.29	21.39	21.05	21.19		
5	QPSK	12	0	21.22	21.18	21.28	21.06	21.02		
5	QPSK	12	7	21.14	21.17	21.06	21.00	21.27	22.5	0
5	QPSK	12	13	20.80	21.17	21.24	21.16	21.02		
5	QPSK	25	0	20.93	20.94	21.18	21.12	21.16		
5	16QAM	1	0	21.20	21.08	20.83	21.20	20.94		
5	16QAM	1	12	21.05	20.94	21.05	21.02	20.94	22.5	0
5	16QAM	1	24	20.88	21.11	21.14	21.02	21.02		
5	16QAM	12	0	20.50	20.74	20.73	20.55	20.65		
5	16QAM	12	7	20.51	20.78	20.51	20.49	20.65		
5	16QAM	12	13	20.81	20.63	20.56	20.89	20.63	22	0.5
5	16QAM	25	0	20.60	20.41	20.53	20.39	20.74		
5	64QAM	1	0	20.34	20.48	20.65	20.35	20.46		
5	64QAM	1	12	20.23	20.33	20.45	20.43	20.41		
5	64QAM	1	24	20.55	20.36	20.64	20.16	20.55	22	0.5
5	64QAM	12	0	19.52	19.86	19.67	19.83	19.77		
5	64QAM	12	7	19.85	19.91	19.74	19.99	19.84		
5	64QAM	12	13	19.57	19.67	19.72	19.57	19.70		
5	64QAM	25	0	19.45	19.81	19.52	19.62	19.46	21	1.5

Reduced Power Mode for Handheld on

Ant 0						
Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
TX Channel	126	189		126	189	251
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
GSM190	31.35	31.58	31.53	32.50	22.35	22.58
GSM 1 Tx slot	31.55	31.85	31.85	32.50	22.55	22.85
GPRS 1 Tx slot	28.54	28.81	28.79	29.50	22.54	22.81
GPRS 2 Tx slots	26.36	26.24	26.46	27.50	22.10	21.98
GPRS 3 Tx slots	23.92	24.20	24.03	25.00	20.02	21.20
GPRS 4 Tx slots	25.07	25.06	25.05	26.00	16.07	16.06
EDGE 1 Tx slot	22.66	22.37	22.61	23.50	16.66	16.37
EDGE 2 Tx slots	20.00	20.31	20.14	21.00	15.74	16.05
EDGE 3 Tx slots	18.19	18.18	18.40	19.00	15.19	15.18
EDGE 4 Tx slots					15.40	16.00

Ant 0						
Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)		
TX Channel	512	661		512	661	810
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
GSM 1 Tx slot	27.60	27.65	27.56	28.50	18.60	18.65
GPRS 1 Tx slot	27.82	27.78	27.60	28.50	18.82	18.78
GPRS 2 Tx slots	25.01	25.16	25.08	26.00	19.01	19.16
GPRS 3 Tx slots	22.69	22.74	22.78	23.50	18.43	18.48
GPRS 4 Tx slots	20.45	20.31	20.25	21.50	17.45	17.31
EDGE 1 Tx slot	23.19	22.95	22.94	24.00	14.19	13.95
EDGE 2 Tx slots	20.76	20.49	20.35	21.50	14.76	14.49
EDGE 3 Tx slots	18.38	18.05	18.09	19.50	14.12	13.79
EDGE 4 Tx slots	15.93	15.74	15.68	17.00	12.93	12.74

Ant 0						
WCDMA II			Tune-up Limit (dBm)	WCDMA IV		
Band	9262	9400		1312	1413	1513
TX Channel	9262	9400	9538	1537	1638	1738
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1721.6	1762.4
3GPP Rel 99	17.38	17.42	17.21	19.00	16.62	16.69
3GPP Rel 99	16.38	17.56	17.30	19.00	16.72	16.80
3GPP Rel 6	16.38	16.16	16.46	18.00	16.69	16.69
3GPP Rel 6	16.58	16.65	16.58	18.00	15.88	15.66
3GPP Rel 6	16.12	16.24	15.97	17.50	15.82	15.97
3GPP Rel 6	16.00	16.01	16.05	17.50	15.47	15.51
3GPP Rel 8	16.48	16.30	16.50	18.00	15.43	15.35
3GPP Rel 8	16.31	16.69	16.69	18.00	15.72	15.42
3GPP Rel 8	15.92	16.33	16.03	17.50	15.76	16.02
3GPP Rel 8	16.22	16.14	16.21	17.50	15.32	15.58
3GPP Rel 6	16.53	16.51	16.42	18.00	15.03	15.37
3GPP Rel 6	14.48	14.71	14.61	18.00	14.97	14.71
3GPP Rel 6	15.32	15.53	15.64	17.00	14.20	14.30
3GPP Rel 6	14.58	14.46	14.41	16.00	13.64	13.87
3GPP Rel 6	16.53	16.25	16.57	18.00	15.04	15.02
3GPP Rel 7	13.88	13.94	14.12	15.50	14.30	14.42

Ant 0						
WCDMA V			Tune-up Limit (dBm)	WCDMA V		
Band	4132	4182		4132	4182	4233
TX Channel	4267	4407	4458	4267	4407	4458
Frequency (MHz)	826.4	836.4	846.6	826.4	836.4	846.6
3GPP Rel 99	22.52	22.49	22.50	24.00	22.52	22.49
3GPP Rel 99	22.72	22.78	22.50	24.00	22.72	22.78
3GPP Rel 6	21.55	21.51	21.87	23.00	21.55	21.51
3GPP Rel 6	21.89	21.94	21.72	23.00	21.89	21.94
3GPP Rel 6	21.33	21.33	21.14	22.50	21.33	21.33
3GPP Rel 6	21.11	21.18	21.36	22.50	21.11	21.18
3GPP Rel 8	21.34	21.38	21.43	23.00	21.34	21.38
3GPP Rel 8	21.73	21.94	21.78	23.00	21.73	21.94
3GPP Rel 8	21.33	21.37	21.16	22.50	21.33	21.37
3GPP Rel 8	21.01	21.23	21.36	22.50	21.01	21.23
3GPP Rel 6	19.50	19.87	19.62	21.00	19.50	19.87
3GPP Rel 6	20.76	20.80	20.73	22.00	20.76	20.80
3GPP Rel 6	19.82	19.56	19.51	21.00	19.82	19.56
3GPP Rel 6	21.76	21.59	21.96	23.00	21.76	21.59
3GPP Rel 7	19.16	19.12	19.15	20.50	19.16	19.12



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (mW)	Power (mW)	Power (mW)	Time-up (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.17	18.15	18.23				
20	QPSK	1	49	18.33	18.26	18.38			19	0
20	QPSK	1	98	18.50	18.43	18.55				
20	QPSK	50	0	18.15	18.13	18.36				
20	QPSK	50	24	18.26	18.17	18.49			19	0
20	QPSK	50	49	18.40	18.31	18.53				
20	QPSK	100	0	18.25	18.10	18.30				
20	15QAM	1	0	18.28	18.23	18.30				
20	15QAM	1	49	18.01	18.03	18.05			19	0
20	15QAM	1	99	18.20	18.27	18.07				
20	15QAM	50	0	18.24	18.37	18.20				
20	15QAM	50	24	18.29	18.28	18.45			19	0
20	15QAM	50	50	18.21	18.22	18.45				
20	15QAM	100	0	18.03	18.29	18.19				
20	15QAM	100	0	18.20	18.35	18.20				
20	15QAM	1	49	18.15	18.15	18.04			19	0
20	15QAM	1	99	17.85	17.87	17.87				
20	15QAM	50	0	18.49	18.28	18.21				
20	15QAM	50	24	18.30	18.15	18.30			19	0
20	15QAM	50	50	18.48	18.21	18.47				
20	15QAM	100	0	18.14	18.34	18.36			Time-up limit	MFR (dB)
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.07	18.05	18.00	19:02.5			
15	QPSK	1	49	17.89	18.29	18.14			19	0
15	QPSK	1	98	18.17	18.17	18.17				
15	QPSK	36	0	18.06	18.23	18.05				
15	QPSK	36	20	17.89	18.06	17.89				
15	QPSK	36	36	18.15	17.88	17.81			19	0
15	QPSK	75	0	18.12	18.48	18.07				
15	15QAM	1	0	17.89	18.06	17.89				
15	15QAM	1	37	17.83	17.73	17.78			19	0
15	15QAM	1	74	17.87	17.99	17.86				
15	15QAM	36	0	17.99	18.02	17.89				
15	15QAM	36	20	18.11	18.12	18.03			19	0
15	15QAM	36	36	18.08	18.06	18.27				
15	15QAM	75	0	17.88	18.14	17.88				
15	15QAM	1	0	18.08	18.13	18.06				
15	15QAM	1	37	17.88	17.95	17.78			19	0
15	15QAM	1	74	17.85	17.74	17.71				
15	15QAM	36	0	18.23	17.86	17.81				
15	15QAM	36	20	18.18	18.02	18.29				
15	15QAM	36	36	18.40	18.00	18.26				
15	15QAM	75	0	17.95	18.12	18.12			Time-up limit	MFR (dB)
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.00	18.00	18.00	19:02.5			
10	QPSK	1	25	17.96	18.03	17.87			19	0
10	QPSK	1	49	17.73	17.72	17.82				
10	QPSK	25	0	17.90	17.96	17.81				
10	QPSK	25	12	17.86	18.00	17.84				
10	QPSK	25	25	18.00	17.78	17.88				
10	15QAM	1	0	17.89	17.96	17.86				
10	15QAM	1	25	17.63	17.51	17.51			19	0
10	15QAM	1	49	17.77	17.78	17.88				
10	15QAM	25	0	17.76	17.86	17.81				
10	15QAM	25	12	17.59	18.00	17.77				
10	15QAM	25	25	17.83	17.76	18.01				
10	15QAM	50	0	17.48	18.06	17.83				
10	15QAM	1	0	18.00	18.00	18.00				
10	15QAM	1	25	17.62	17.66	17.67			19	0
10	15QAM	1	49	17.66	17.66	17.66				
10	15QAM	25	0	18.01	17.88	17.87				
10	15QAM	25	12	17.91	17.90	17.88				
10	15QAM	25	25	18.04	17.81	17.81			19	0
10	15QAM	50	0	17.82	17.91	17.82			Time-up limit	MFR (dB)
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.49	17.88	17.59				
5	QPSK	1	12	17.85	17.82	17.59			19	0
5	QPSK	1	24	17.51	17.46	17.44				
5	QPSK	12	0	17.66	17.70	17.57				
5	QPSK	12	7	17.56	17.70	17.67				
5	QPSK	12	13	17.72	17.68	17.58				
5	QPSK	25	0	17.73	18.07	17.86			19	0
5	15QAM	1	0	17.76	17.70	17.68				
5	15QAM	1	12	17.58	17.40	17.33				
5	15QAM	1	24	17.54	17.63	17.44			19	0
5	15QAM	12	0	17.65	17.75	17.72				
5	15QAM	12	7	17.54	17.75	17.58				
5	15QAM	12	13	17.57	17.62	17.57			19	0
5	15QAM	25	0	17.50	17.78	17.64				
5	15QAM	25	0	17.69	17.67	17.52			Time-up limit	MFR (dB)
Channel										
Frequency (MHz)										
3	QPSK	1	0	17.31	17.78	17.44				
3	QPSK	1	8	17.62	17.61	17.44			19	0
3	QPSK	1	14	17.33	17.37	17.50				
3	QPSK	8	0	17.27	17.63	17.48				
3	QPSK	8	4	17.37	17.52	17.34			19	0
3	QPSK	8	7	17.42	17.66	17.42				
3	15QAM	1	0	17.58	17.84	17.51				
3	15QAM	1	0	17.44	17.68	17.43				
3	15QAM	1	8	17.36	17.48	17.38			19	0
3	15QAM	1	14	17.37	17.35	17.39				
3	15QAM	8	0	17.75	17.37	17.45				
3	15QAM	8	4	17.51	17.47	17.63			19	0
3	15QAM	8	7	17.59	17.47	17.61				
3	15QAM	15	0	17.26	17.39	17.42			Time-up limit	MFR (dB)
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	17.00	17.50	17.28				
1.4	QPSK	1	4	17.42	17.41	17.32				
1.4	QPSK	1	5	17.05	17.13	17.25			19	0
1.4	QPSK	3	0	17.07	17.26	17.18				
1.4	QPSK	3	1	17.07	17.28	17.20				
1.4	QPSK	3	3	17.12	17.43	17.30				
1.4	15QAM	1	0	17.30	17.63	17.29			19	0
1.4	15QAM	1	4	17.14	17.23	17.29				
1.4	15QAM	1	5	17.06	17.10	17.24				
1.4	15QAM	3	0	17.26	17.40	17.40				
1.4	15QAM	1	0	17.26	17.36	17.22				
1.4	15QAM	1	5	17.20	17.09	17.01			19	0
1.4	15QAM	3	0	17.06	17.19	17.24				
1.4	15QAM	3	1	17.06	17.27	17.47				
1.4	15QAM	3	3	17.13	17.33	17.37			19	0
1.4	15QAM	1	0	17.44	17.41	17.42				
1.4	15QAM	1	3	17.26	17.36	17.22				
1.4	15QAM	1	5	17.09	17.09	17.09			19	0
1.4	15QAM	3	0	17.06	17.19	17.24				
1.4	15QAM	3	1	17.06	17.27	17.47				
1.4	15QAM	3	3	17.13	17.33	17.37			19	0
1.4	15QAM	6	0	17.29	17.21	17.34				

Band 12 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq 23060	Power High Ch./Freq 23095	Power Max Ch./Freq 23130	Turn-up Time (min)	MFR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.41	23.47	23.51	24	0						
10	QPSK	1	25	23.17	23.28	23.35								
10	QPSK	1	49	23.25	23.29	23.32								
10	QPSK	25	0	22.20	22.49	22.33								
10	QPSK	25	12	22.26	22.29	22.25	23	1						
10	QPSK	25	25	22.31	22.30	22.28								
10	QPSK	50	0	22.12	22.45	22.29								
10	15QAM	1	0	22.40	22.35	22.40								
10	15QAM	1	25	22.20	22.30	22.33	23	1						
10	15QAM	1	49	22.29	22.32	22.32								
10	15QAM	25	0	21.46	21.54	21.41								
10	15QAM	25	12	21.43	21.43	21.52								
10	15QAM	50	0	21.37	21.37	21.32	22	2						
10	15QAM	50	25	21.28	21.43	21.48								
10	64QAM	1	0	21.25	21.35	21.40								
10	64QAM	1	25	21.24	21.29	21.34								
10	64QAM	1	49	21.23	21.34	21.45	22	2						
10	64QAM	25	0	20.27	20.49	20.32								
10	64QAM	25	12	20.32	20.35	20.38								
10	64QAM	25	25	20.18	20.38	20.29								
10	64QAM	50	0	20.10	20.35	20.06	21	3						
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.05	23.07	23.05	24	0						
5	QPSK	1	12	23.29	23.38	23.31								
5	QPSK	1	24	23.13	23.17	23.07								
5	QPSK	12	0	22.07	22.42	22.32								
5	QPSK	12	7	22.02	22.15	22.11	23	1						
5	QPSK	12	13	22.13	22.20	22.19								
5	QPSK	25	0	21.97	22.40	22.35								
5	15QAM	1	0	22.06	22.29	22.17								
5	15QAM	1	12	22.17	22.19	22.23	23	1						
5	15QAM	1	24	22.17	22.20	22.12								
5	15QAM	12	0	21.34	21.49	21.30								
5	15QAM	12	7	21.25	21.31	21.42								
5	15QAM	12	13	21.33	21.29	21.26	22	2						
5	15QAM	25	0	20.14	20.36	20.25								
5	64QAM	1	0	21.19	21.32	21.31								
5	64QAM	1	12	21.19	21.18	21.04								
5	64QAM	1	24	21.18	21.13	21.03	21	3						
5	64QAM	12	0	20.14	20.36	20.25								
5	64QAM	12	7	20.19	20.23	20.24								
5	64QAM	12	13	20.10	20.29	20.14								
5	64QAM	25	0	19.27	19.55	19.25	20							
Channel														
Frequency (MHz)														
3	QPSK	1	0	23.08	23.09	23.05	24	0						
3	QPSK	1	8	23.03	23.14	23.07								
3	QPSK	1	14	23.20	23.13	23.08								
3	QPSK	8	0	22.08	22.26	22.16								
3	QPSK	8	4	22.21	22.20	22.11	23	1						
3	QPSK	8	7	22.09	22.24	22.12								
3	QPSK	15	0	22.04	22.26	22.16								
3	15QAM	1	0	22.27	22.25	22.26								
3	15QAM	1	8	22.13	22.15	22.24	23	1						
3	15QAM	1	14	22.21	22.22	22.21								
3	15QAM	8	0	21.37	21.42	21.30								
3	15QAM	8	4	21.37	21.37	21.46								
3	15QAM	8	7	21.30	21.29	21.20	22	2						
3	15QAM	15	0	21.30	21.25	21.40								
3	64QAM	1	0	21.13	21.26	21.32								
3	64QAM	1	8	21.11	21.15	21.00								
3	64QAM	1	14	21.10	21.09	21.07	21	3						
3	64QAM	8	0	20.18	20.37	20.27								
3	64QAM	8	4	20.22	20.21	20.33								
3	64QAM	8	7	20.00	20.34	20.17								
3	64QAM	15	0	19.24	19.61	19.39	20							
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	23.18	23.35	23.19	24	0						
1.4	QPSK	1	3	23.10	23.09	23.02								
1.4	QPSK	1	5	23.15	23.14	23.12								
1.4	QPSK	3	0	23.16	23.13	23.19								
1.4	QPSK	3	1	23.26	23.07	23.24	23	1						
1.4	QPSK	3	3	23.06	23.13	23.08								
1.4	QPSK	6	0	22.08	22.14	22.26								
1.4	15QAM	1	0	22.22	22.26	22.30								
1.4	15QAM	1	3	22.14	22.01	22.15	23	1						
1.4	15QAM	1	5	22.22	22.21	22.16								
1.4	15QAM	3	0	22.40	22.04	22.12								
1.4	15QAM	3	1	22.17	22.17	22.14								
1.4	15QAM	3	3	22.00	22.14	22.00	22	2						
1.4	15QAM	6	0	21.20	21.30	21.26								
1.4	64QAM	1	0	21.14	21.31	21.14								
1.4	64QAM	1	3	21.12	21.13	21.16								
1.4	64QAM	1	5	21.07	20.99	21.23	22	2						
1.4	64QAM	3	0	21.23	21.31	21.16								
1.4	64QAM	3	1	21.24	21.31	21.20								
1.4	64QAM	3	3	21.13	21.33	21.23								
1.4	64QAM	6	0	20.16	20.36	20.21	21	3						

Band 13 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Mod Ch./Freq	Power High Ch./Freq	Turn-up time (min)	APRS (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0		23.40		24	0						
10	QPSK	1	25		23.16									
10	QPSK	1	49		23.14									
10	QPSK	25	0		22.39									
10	QPSK	25	12		22.21		23	1						
10	QPSK	25	25		22.25									
10	QPSK	50	0		22.35									
10	15QAM	1	0		22.25									
10	15QAM	1	25		22.23		23	1						
10	15QAM	1	49		22.18									
10	15QAM	25	0		21.45									
10	15QAM	25	12		21.32									
10	15QAM	50	0		21.30		22	2						
10	15QAM	50	25		21.31									
10	64QAM	1	0		21.32									
10	64QAM	1	25		21.19									
10	64QAM	1	49		21.28		22	2						
10	64QAM	25	0		20.35									
10	64QAM	25	12		20.21									
10	64QAM	25	25		20.27									
10	64QAM	50	0		20.31		21	3						
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.05	22.93	22.95	Turn-up time (min)	APRS (dB)						
5	QPSK	1	0	23.34	23.29	23.07	24	0						
5	QPSK	1	10	23.05	23.05	23.24	24	0						
5	QPSK	1	24	23.17	23.20	23.02	24	0						
5	QPSK	12	0	22.11	22.48	22.17	23	1						
5	QPSK	12	0	22.16	22.10	22.14								
5	QPSK	12	13	22.08	22.16	22.15								
5	QPSK	25	0	22.02	22.36	22.10								
5	15QAM	1	0	22.31	22.32	22.39	23	1						
5	15QAM	1	12	22.25	22.17	22.20								
5	15QAM	1	24	22.14	22.25	22.14								
5	15QAM	14	0	21.38	21.52	21.39								
5	15QAM	12	7	21.39	21.32	21.48	22	2						
5	15QAM	12	13	21.37	21.29	21.38								
5	15QAM	26	0	21.51	21.54	21.38								
5	15QAM	1	0	21.16	21.34	21.35								
5	15QAM	1	12	21.14	21.22	21.07	22	2						
5	15QAM	1	24	21.31	21.16	21.07								
5	15QAM	12	0	20.10	20.36	20.28								
5	15QAM	12	7	20.14	20.21	20.20								
5	15QAM	12	13	20.09	20.26	20.12	21	3						
5	15QAM	26	0	20.25	20.49	20.22								
5	15QAM	26	0	19.25	19.49	19.22								

Band 38 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150	23	0	
Frequency (MHz)				2590	2595	2610			
20	QPSK	1	0	21.95	22.00	21.75	23	0	
20	QPSK	1	49	21.87	21.67	21.80			
20	QPSK	1	99	21.84	21.66	21.69			
20	QPSK	50	0	21.88	21.98	21.67			
20	QPSK	50	24	21.62	21.81	21.58			
20	QPSK	50	50	21.49	21.73	21.64	23	0	
20	QPSK	100	0	21.74	21.82	21.68			
20	16QAM	1	0	21.66	21.62	21.76			
20	16QAM	1	49	21.72	21.69	21.52			
20	16QAM	1	99	21.61	21.72	21.58			
20	16QAM	50	0	20.89	21.01	20.63	22	1	
20	16QAM	50	24	20.52	20.54	20.62			
20	16QAM	50	50	20.70	20.67	20.59			
20	16QAM	100	0	20.69	20.71	20.80			
20	64QAM	1	0	20.64	20.74	20.75			
20	64QAM	1	49	20.73	20.75	20.72	22	1	
20	64QAM	1	99	20.79	20.96	20.62			
20	64QAM	50	0	20.02	20.02	19.85			
20	64QAM	50	24	19.90	19.70	19.71			
20	64QAM	50	50	19.77	19.60	19.73			
20	64QAM	100	0	19.63	19.76	19.74	21	2	
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5	23	0	
15	QPSK	1	0	21.83	21.81	21.58			
15	QPSK	1	37	21.85	21.46	21.58	23	0	
15	QPSK	1	74	21.85	21.59	21.57			
15	QPSK	36	0	21.81	21.83	21.65			
15	QPSK	36	20	21.52	21.61	21.51			
15	QPSK	36	39	21.46	21.73	21.59			
15	QPSK	75	0	21.74	21.83	21.67	23	0	
15	16QAM	1	0	21.45	21.63	21.64			
15	16QAM	1	37	21.51	21.60	21.54			
15	16QAM	1	74	21.55	21.76	21.41			
15	16QAM	36	0	20.81	20.96	20.62			
15	16QAM	36	20	20.50	20.50	20.58	22	1	
15	16QAM	36	39	20.71	20.60	20.57			
15	16QAM	75	0	20.62	20.62	20.70			
15	64QAM	1	0	20.54	20.65	20.55			
15	64QAM	1	37	20.53	20.76	20.58			
15	64QAM	1	74	20.64	20.75	20.47	22	1	
15	64QAM	36	0	19.98	19.91	19.64			
15	64QAM	36	20	19.80	19.67	19.50			
15	64QAM	36	39	19.65	19.56	19.67			
15	64QAM	75	0	19.58	19.63	19.60			
Channel				37800	38000	38200	21	2	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.64	21.61	21.41	23	0	
10	QPSK	1	25	21.79	21.33	21.55			
10	QPSK	1	49	21.69	21.60	21.51			
10	QPSK	25	0	21.72	21.68	21.44			
10	QPSK	25	12	21.30	21.56	21.51			
10	QPSK	25	25	21.46	21.71	21.39	23	0	
10	QPSK	50	0	21.64	21.69	21.55			
10	16QAM	1	0	21.33	21.60	21.48			
10	16QAM	1	25	21.50	21.52	21.49			
10	16QAM	1	49	21.54	21.60	21.24			
10	16QAM	25	0	20.81	20.83	20.45	22	1	
10	16QAM	25	12	20.46	20.44	20.55			
10	16QAM	25	25	20.67	20.44	20.59			
10	16QAM	50	0	20.41	20.62	20.53			
10	64QAM	1	0	20.39	20.47	20.35			
10	64QAM	1	25	20.35	20.65	20.46	22	1	
10	64QAM	1	49	20.56	20.70	20.37			
10	64QAM	25	0	19.78	19.80	19.60			
10	64QAM	25	12	19.73	19.60	19.30			
10	64QAM	25	25	19.65	19.54	19.63			
10	64QAM	50	0	19.54	19.55	19.41	21	2	
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5	23	0	
5	QPSK	1	0	21.43	21.46	21.38			
5	QPSK	1	12	21.76	21.28	21.47	23	0	
5	QPSK	1	24	21.65	21.45	21.41			
5	QPSK	12	0	21.53	21.64	21.26			
5	QPSK	12	7	21.22	21.50	21.33			
5	QPSK	12	13	21.29	21.63	21.39			
5	QPSK	25	0	21.43	21.47	21.55	23	0	
5	16QAM	1	0	21.26	21.58	21.45			
5	16QAM	1	12	21.38	21.34	21.42			
5	16QAM	1	24	21.33	21.54	21.22			
5	16QAM	12	0	20.66	20.77	20.40			
5	16QAM	12	7	20.38	20.42	20.39	22	1	
5	16QAM	12	13	20.64	20.35	20.59			
5	16QAM	25	0	20.34	20.61	20.34			
5	64QAM	1	0	20.20	20.28	20.19			
5	64QAM	1	12	20.33	20.61	20.42			
5	64QAM	1	24	20.58	20.63	20.29	22	1	
5	64QAM	12	0	19.77	19.62	19.48			
5	64QAM	12	7	19.63	19.44	19.42			
5	64QAM	12	13	19.52	19.52	19.46			
5	64QAM	25	0	19.39	19.45	19.26			

Band 41 Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.86	22.00	22.04	21.81	21.66	23	0
20	QPSK	1	49	21.92	21.98	21.82	21.91	21.92		
20	QPSK	1	99	21.95	21.83	21.87	21.80	21.83		
20	QPSK	50	0	21.91	21.89	21.97	21.83	21.64		
20	QPSK	50	24	21.90	21.60	21.80	21.68	21.80		
20	QPSK	50	50	21.74	21.68	21.76	21.68	21.71	23	0
20	QPSK	100	0	21.77	21.82	21.95	21.86	21.92		
20	16QAM	1	0	21.73	21.76	21.83	21.81	21.92		
20	16QAM	1	49	21.81	21.74	21.71	21.68	21.75		
20	16QAM	1	99	21.68	21.77	21.86	21.66	21.64		
20	16QAM	50	0	20.99	20.91	21.03	20.83	20.54	22	1
20	16QAM	50	24	20.86	20.54	20.71	20.77	20.88		
20	16QAM	50	50	20.83	20.68	20.72	20.70	20.70		
20	16QAM	100	0	20.76	20.85	20.87	20.83	20.89		
20	64QAM	1	0	20.62	20.79	20.81	20.90	21.00		
20	64QAM	1	49	20.84	20.72	20.75	20.75	20.77	22	1
20	64QAM	1	99	20.73	20.89	20.99	20.69	20.68		
20	64QAM	50	0	19.85	20.05	20.07	19.89	19.60		
20	64QAM	50	24	19.80	19.94	19.76	19.83	19.94		
20	64QAM	50	50	19.93	19.82	19.82	19.89	19.94		
20	64QAM	100	0	19.83	19.77	19.78	19.77	19.85	21	2
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	21.69	21.93	21.97	21.82	21.48	23.00	0
15	QPSK	1	37	21.71	21.77	21.66	21.76	21.88		
15	QPSK	1	74	21.84	21.78	21.82	21.67	21.62		
15	QPSK	36	0	21.69	21.78	21.92	21.84	21.50		
15	QPSK	36	20	21.90	21.47	21.64	21.47	21.68		
15	QPSK	36	39	21.55	21.51	21.76	21.61	21.50	23	0
15	QPSK	75	0	21.60	21.64	21.89	21.75	21.77		
15	16QAM	1	0	21.63	21.76	21.83	21.74	21.91		
15	16QAM	1	37	21.78	21.68	21.62	21.05	21.64		
15	16QAM	1	74	21.57	21.68	21.77	21.59	21.45		
15	16QAM	36	0	20.87	20.77	20.81	20.61	20.72	22	1
15	16QAM	36	20	20.74	20.64	20.66	20.58	20.90		
15	16QAM	36	39	20.66	20.64	20.59	20.49	20.51		
15	16QAM	75	0	20.74	20.83	20.77	20.80	20.80		
15	64QAM	1	0	20.44	20.78	20.59	20.68	20.90		
15	64QAM	1	37	20.83	20.69	20.53	20.58	20.63	22	1
15	64QAM	1	74	20.67	20.72	20.89	20.61	20.58		
15	64QAM	36	0	19.68	19.88	20.04	19.90	19.62		
15	64QAM	36	20	19.68	19.94	19.69	19.80	19.90		
15	64QAM	36	39	19.73	19.67	19.66	19.90	19.96		
15	64QAM	75	0	19.67	19.68	19.69	19.66	19.79	21	2
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685	tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	21.58	21.79	21.85	21.83	21.41	23.00	0
10	QPSK	1	25	21.59	21.73	21.65	21.77	21.71		
10	QPSK	1	49	21.84	21.70	21.74	21.53	21.41		
10	QPSK	25	0	21.49	21.74	21.79	21.71	21.46		
10	QPSK	25	12	21.71	21.45	21.49	21.39	21.55		
10	QPSK	25	25	21.57	21.49	21.66	21.53	21.39	23	0
10	QPSK	50	0	21.57	21.64	21.70	21.71	21.62		
10	16QAM	1	0	21.64	21.63	21.76	21.61	21.90		
10	16QAM	1	25	21.75	21.67	21.62	21.58	21.52		
10	16QAM	1	49	21.65	21.76	21.56	21.51	21.65		
10	16QAM	25	0	20.68	20.72	20.63	20.53	20.55	22	1
10	16QAM	25	12	20.59	20.59	20.66	20.37	20.76		
10	16QAM	25	25	20.50	20.44	20.58	20.42	20.52		
10	16QAM	50	0	20.76	20.70	20.74	20.64	20.81		
10	64QAM	1	0	20.49	20.74	20.48	20.86	20.90		
10	64QAM	1	25	20.79	20.63	20.44	20.49	20.54	22	1
10	64QAM	1	49	20.49	20.58	20.77	20.45	20.40		
10	64QAM	25	0	19.70	19.93	19.82	19.82	19.53		
10	64QAM	25	12	19.67	19.74	19.49	19.61	19.72		
10	64QAM	25	25	19.60	19.65	19.49	19.91	19.78		
10	64QAM	50	0	19.67	19.64	19.54	19.53	19.80	21	2
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2499.5	2545.8	2593	2640.39	2687.5	tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	21.49	21.66	21.66	21.76	21.31	23.00	0
5	QPSK	1	12	21.48	21.69	21.52	21.62	21.54		
5	QPSK	1	24	21.65	21.49	21.68	21.52	21.38		
5	QPSK	12	0	21.43	21.57	21.57	21.70	21.32		
5	QPSK	12	7	21.73	21.35	21.32	21.39	21.41		
5	QPSK	12	13	21.58	21.28	21.57	21.48	21.26	23	0
5	QPSK	25	0	21.48	21.46	21.61	21.60	21.50		
5	16QAM	1	0	21.65	21.55	21.66	21.55	21.79		
5	16QAM	1	12	21.66	21.46	21.58	21.53	21.45		
5	16QAM	1	24	21.62	21.56	21.47	21.52	21.53		
5	16QAM	12	0	20.47	20.73	20.60	20.45	20.69	22	1
5	16QAM	12	7	20.54	20.55	20.54	20.35	20.67		
5	16QAM	12	13	20.51	20.45	20.40	20.43	20.31		
5	16QAM	25	0	20.77	20.55	20.54	20.54	20.81		
5	64QAM	1	0	20.34	20.65	20.35	20.67	20.73		
5	64QAM	1	12	20.58	20.46	20.33	20.34	20.34	22	1
5	64QAM	1	24	20.37	20.53	20.68	20.38	20.31		
5	64QAM	12	0	19.56	19.78	19.67	19.64	19.38		
5	64QAM	12	7	19.66	19.66	19.42	19.73	19.40		
5	64QAM	12	13	19.58	19.66	19.34	19.77	19.68		
5	64QAM	25	0	19.65	19.46	19.35	19.47	19.73	21	2



Downlin CA Power

2CA DL

CA List	PCC								SCC				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL RB	UL Offset	LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel					Tx. Power (dBm)	Tx. Power (dBm)				
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0	Band 7	20M	2655	3100	23.30	23.49
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	Band 5	10M	881.5	2525	23.07	23.30
CA_7B	Band 7	Ant1	15M	2535	21100	QPSK	1	0	0	Band 7	5M	2544.3	3193	23.16	23.30
CA_7C	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	Band 7	20M	2554.8	3298	23.16	23.30
CA_38C	Band 38	Ant1	20M	2595	38000	QPSK	1	0	0	Band 38	20M	2614.8	38198	22.87	22.98
CA_7A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	Band 7	5M	2687.5	3425	23.12	23.30
CA_41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	0	Band 41	20M	2612.8	40818	22.85	23.08
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	0	Band 66	5M	2197.5	67311	23.13	23.34
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	0	Band 66	20M	2174.8	67084	23.24	23.34
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	0	Band 41	20M	2593	40620	23.37	23.59
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	0	Band 26	15M	876.5	8865	22.97	23.08
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0	Band 41	20M	2593	40620	23.31	23.49
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	0	Band 5	10M	881.5	2525	22.85	23.08
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	Band 2	20M	1979.8	1098	23.23	23.36
CA_2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	Band 4	20M	2132.5	2175	23.11	23.36
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	0	Band 2	20M	1960	900	23.17	23.34
CA_2A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	Band 5	10M	881.5	2525	23.14	23.36
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0	Band 2	20M	1960	900	23.34	23.49
CA_2A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	0	Band 7	20M	2655	3100	23.15	23.36
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	Band 2	20M	1960	900	23.19	23.30
CA_4A-5A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	0	Band 5	10M	881.5	2525	23.17	23.34
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0	Band 4	20M	2132.5	2175	23.30	23.49
CA_4A-7A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	0	Band 7	20M	2655	3100	23.24	23.34
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	0	Band 4	20M	2132.5	2175	23.09	23.30
CA_66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	0	Band 66	5M	2197.5	67311	23.20	23.34
CA_5A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	0	Band 66	20M	2155	66886	23.37	23.49
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	0	Band 5	10M	881.5	2525	23.28	23.34



WLAN/Bluetooth Power

2.4GHz WLAN	Ant 4 Full Power Hotspot Body worn Handheld					Ant 4 Head		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b 11Mbps		1	2412	19.90	21.50	16.95	18.00	98.33
		6	2437	19.90	21.50	17.03	18.00	
		11	2462	18.40	20.00	16.92	18.00	
802.11g 6Mbps		1	2412	17.40	19.00	Not Required	18.00	98.26
		6	2437	19.00	20.50		18.00	
		11	2462	17.90	19.50		18.00	
802.11n-HT20 MCS0		1	2412	17.20	18.50	Not Required	18.00	98.13
		6	2437	18.30	19.50		18.00	
		11	2462	16.70	18.00		18.00	

5.2GHz WLAN	Ant 4 Full Power					Ant 4 Head		Ant 4 Body Worn Handheld		Ant 4 Hotspot		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps		36	5180	18.26	19.50	Not Required	15.50	Not Required	19.00	Not Required	16.00	97.85
		40	5200	18.18	19.50		15.50		19.00		16.00	
		44	5220	18.23	19.50		15.50		19.00		16.00	
		48	5240	18.20	19.50		15.50		19.00		16.00	
802.11n-HT20 MCS0		36	5180	18.33	19.50	Not Required	15.50	Not Required	19.00	Not Required	16.00	98.06
		40	5200	18.24	19.50		15.50		19.00		16.00	
		44	5220	18.31	19.50		15.50		19.00		16.00	
		48	5240	18.26	19.50		15.50		19.00		16.00	
802.11n-HT40 MCS0		38	5190	15.26	17.00	13.88	15.50	15.26	17.00	14.64	16.00	96.30
		46	5230	17.79	19.00	14.21	15.50	17.79	19.00	14.67	16.00	
802.11ac-VHT20 MCS0		36	5180	17.27	18.50	Not Required	15.50	Not Required	18.50	Not Required	16.00	98.07
		40	5200	17.20	18.50		15.50		18.50		16.00	
		44	5220	17.30	18.50		15.50		18.50		16.00	
		48	5240	17.18	18.50		15.50		18.50		16.00	
802.11ac-VHT40 MCS0		38	5190	15.17	16.50	Not Required	15.50	Not Required	16.50	Not Required	16.00	96.31
		46	5230	16.90	18.50		15.50		18.50		16.00	
802.11ac-VHT80 MCS0		42	5210	12.99	14.50		14.50		14.50		14.50	92.44

5.3GHz WLAN	Ant 4 Full Power					Ant 4 Head		Ant 4 Body Worn Handheld		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps		52	5260	18.20	19.50	Not Required	15.50	Not Required	19.00	97.85
		56	5280	18.01	19.50		15.50		19.00	
		60	5300	18.11	19.50		15.50		19.00	
		64	5320	18.03	19.50		15.50		19.00	
802.11n-HT20 MCS0		52	5260	18.06	19.50	Not Required	15.50	Not Required	19.00	98.06
		56	5280	18.08	19.50		15.50		19.00	
		60	5300	18.03	19.50		15.50		19.00	
		64	5320	18.12	19.50		15.50		19.00	
802.11n-HT40 MCS0		54	5270	17.61	19.00	14.09	15.50	17.61	19.00	96.30
		62	5310	14.21	15.50	14.21	15.50	14.21	15.50	
802.11ac-VHT20 MCS0		52	5260	17.11	18.50	Not Required	15.50	Not Required	18.50	98.07
		56	5280	17.05	18.50		15.50		18.50	
		60	5300	17.06	18.50		15.50		18.50	
		64	5320	16.96	18.50		15.50		18.50	
802.11ac-VHT40 MCS0		54	5270	16.84	18.50	Not Required	15.50	Not Required	18.50	96.31
		62	5310	14.14	15.50		15.50		15.50	
802.11ac-VHT80 MCS0		58	5290	11.62	13.00		13.00		13.00	92.44

5.5GHz WLAN	Ant 4 Full Power					Ant 4 Head		Ant 4 Body Worn Handheld		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps		100	5500	18.00	19.50	Not Required	15.50	Not Required	19.00	97.85
		116	5580	18.36	19.50		15.50		19.00	
		124	5620	18.23	19.50		15.50		19.00	
		132	5660	18.18	19.50		15.50		19.00	
		140	5700	18.04	19.50		15.50		19.00	
		144	5720	18.00	19.50		15.50		19.00	
802.11n-HT20 MCS0		100	5500	18.01	19.50	Not Required	15.50	Not Required	19.00	98.06
		116	5580	18.13	19.50		15.50		19.00	
		124	5620	17.98	19.50		15.50		19.00	
		132	5660	17.94	19.50		15.50		19.00	
		140	5700	18.07	19.50		15.50		19.00	
		144	5720	18.01	19.50		15.50		19.00	
802.11n-HT40 MCS0		102	5510	15.57	17.00	Not Required	15.50	15.57	17.00	96.30
		110	5550	17.61	19.00		15.50	17.91	19.00	
		126	5630	17.48	19.00		15.50	17.68	19.00	
		134	5670	17.73	19.00		15.50	17.78	19.00	
		142	5710	17.41	19.00		15.50	17.61	19.00	
		100	5500	16.97	18.50		15.50		18.50	
802.11ac-VHT20 MCS0		116	5580	17.32	18.50	Not Required	15.50	Not Required	18.50	98.07
		124	5620	17.21	18.50		15.50		18.50	
		132	5660	17.15	18.50		15.50		18.50	
		140	5700	17.03	18.50		15.50		18.50	
		144	5720	16.97	18.50		15.50		18.50	
		102	5510	15.52	17.50		15.50		17.50	
802.11ac-VHT40 MCS0		110	5550	16.83	18.50	Not Required	15.50	Not Required	18.50	96.31
		126	5630	17.44	19.00		15.50		19.00	
		134	5670	16.91	18.50		15.50		18.50	
		142	5710	16.90	18.50		15.50		18.50	
		106	5530	13.07	14.50		13.07		14.50	
		122	5610	16.85	18.50		13.96		18.50	
802.11ac-VHT80 MCS0		138	5690	16.83	18.50		13.87		18.50	92.44

5.8GHz WLAN	Ant 4 Full Power Handheld					Ant 4 Head		Ant 4 Body Worn		Ant 4 Hotspot		Duty Cycle %
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a 6Mbps		149	5745	18.73	20.50	Not Required	16.50	18.35	20.00	Not Required	18.00	97.85
		157	5785	18.52	20.50		16.50	18.55	20.00		18.00	
		165	5825	18.80	20.50		16.50	18.41	20.00		18.00	
802.11n-HT20 MCS0		149	5745	18.60	20.00	Not Required	16.50	Not Required	20.00	Not Required	18.00	98.06
		157	5785	18.91	20.50		16.50		20.00		18.00	
		165	5825	18.62	20.00		16.50		20.00		18.00	
802.11n-HT40 MCS0		151	5755	17.68	19.50	Not Required	16.50	Not Required	19.50	Not Required	18.00	96.30
		159	5795	17.91	19.50		16.50		19.50		18.00	
		149	5745	17.46	19.00		16.50		19.00		18.00	
802.11ac-VHT20 MCS0		157	5785	17.89	19.50	Not Required	16.50	Not Required	19.50	Not Required	18.00	98.07
		165	5825	17.50	19.00		16.50		19.00		18.00	
802.11ac-VHT40 MCS0		151	5755	16.92	18.50	Not Required	16.50	Not Required	18.50	Not Required	18.00	96.31
		159	5795	16.94	18.50		16.50		18.50		18.00	
802.11ac-VHT80 MCS0		155	5775	16.93	18.50	15.09	16.50		18.50	16.30	18.00	92.44



BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	10.50	8.00	7.90
	CH 39	2441	11.40	9.30	9.30
	CH 7B	2480	10.70	9.00	9.00
Tune-up Limit			12.5	9.5	9.5

BLE 1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	6.70
	CH 19	2440	8.30
	CH 39	2480	8.10
Tune-up Limit			8.5



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

Head (Antenna #0, Slave ID=6)																														
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
WCDMA II	RM-C 12.2kps	9400	1880	N/A	N/A	Right Cheek	0mm	0.12	0.148	0.053	0.063	0.057	0.110	0.045	0.131	0.141	0.111	0.075	0.095	0.111	0.092	0.055	0.080	0.092	0.035	0.083	0.021	0.081	0.059	0.090
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	1	8	15	22	29	36	43	50	57	64	71	78	85	92	99	106	113	120	127	134	141
WCDMA IV	RM-C 12.2kps	1413	1732.6	N/A	N/A	Right Cheek	0mm	0.33	0.432	0.214	0.232	0.273	0.345	0.191	0.189	0.171	0.348	0.281	0.252	0.351	0.211	0.157	0.251	0.355	0.261	0.325	0.372	0.333	0.244	0.171
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	2	9	16	23	30	37	44	51	58	65	72	79	86	93	100	107	114	121	128	135	142
WCDMA V	RM-C 12.2kps	4182	636.4	N/A	N/A	Left Cheek	0mm	0.297	0.359	0.114	0.195	0.254	0.135	0.105	0.115	0.266	0.169	0.117	0.127	0.297	0.224	0.205	0.315	0.155	0.094	0.195	0.335	0.275	0.324	0.257
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	3	10	17	24	31	38	45	52	59	66	73	80	87	94	101	108	115	122	129	136	143
LTE B2	QPSK	18900	1880	1	0	Left Cheek	0mm	0.14	0.179	0.075	0.085	0.080	0.132	0.067	0.153	0.164	0.111	0.097	0.117	0.133	0.115	0.077	0.102	0.114	0.058	0.105	0.043	0.103	0.082	0.090
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	4	11	18	25	32	39	46	53	60	67	74	81	88	95	102	109	116	123	130	137	
LTE B12	QPSK	23095	707.5	1	0	Left Cheek	0mm	0.226	0.271	0.092	0.173	0.231	0.113	0.083	0.093	0.213	0.169	0.095	0.105	0.255	0.201	0.183	0.263	0.133	0.071	0.173	0.213	0.223	0.201	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	5	12	19	26	33	40	47	54	61	68	75	82	89	96	103	110	117	124	131	138	
LTE B13	QPSK	23230	782	1	0	Right Cheek	0mm	0.208	0.254	0.114	0.195	0.254	0.135	0.105	0.115	0.236	0.169	0.117	0.127	0.297	0.224	0.205	0.215	0.155	0.094	0.195	0.235	0.215	0.224	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	6	13	20	27	34	41	48	55	62	69	76	83	90	97	104	111	118	125	132	139	
LTE B26(5)	QPSK	26865	831.5	1	0	Left Cheek	0mm	0.257	0.321	0.164	0.174	0.169	0.222	0.156	0.242	0.253	0.201	0.164	0.206	0.222	0.204	0.167	0.191	0.203	0.147	0.195	0.132	0.192	0.171	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	0	1	2	3	4																
LTE B86 (4)	QPSK	132322	1745	1	0	Right Cheek	0mm	0.249	0.323	0.245	0.287	0.255	0.296	0.311																

Body (Antenna #0, Slave ID=6)																														
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
WCDMA II	RMC 12.2Kbps	9262	1852.4	N/A	N/A	Back	5mm	0.927	1.54	0.613	0.981	1.337	1.037	0.803	1.417	1.094	1.400	1.365	1.388	1.323	1.089	1.166	1.091	1.238	1.333	1.182	1.503	0.842	0.960	1.023
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	1	8	15	22	29	36	43	50	57	64	71	78	85	92	99	106	113	120	127	134	141
WCDMA IV	RMC 12.2Kbps	1413	1732.6	N/A	N/A	Back	5mm	1.08	1.45	1.100	1.002	1.011	1.084	0.954	0.718	0.697	0.764	1.150	1.055	1.112	0.977	1.092	1.372	1.153	1.055	1.224	1.221	0.990	0.933	1.243
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	2	9	16	23	30	37	44	51	58	65	72	79	86	93	100	107	114	121	128	135	142
WCDMA V	RMC 12.2Kbps	4182	836.4	N/A	N/A	Back	5mm	0.934	1.19	0.210	0.433	0.767	0.653	0.709	0.043	0.896	0.945	0.581	0.685	0.025	0.627	0.524	0.287	0.155	0.337	0.177	0.227	0.043	0.019	0.197
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	3	10	17	24	31	38	45	52	59	66	73	80	87	94	101	108	115	122	129	136	143
LTE B2	QPSK	18700	1860	1	0	Back	5mm	0.96	1.25	0.745	1.183	1.014	0.764	1.214	0.978	1.125	0.745	1.111	0.934	1.134	0.813	1.023	1.108	1.246	0.682	0.983	0.642	0.923	1.089	0.892
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	4	11	18	25	32	39	46	53	60	67	74	81	88	95	102	109	116	123	130	137	
LTE B12	QPSK	23095	707.5	1	0	Right Side	5mm	0.566	0.651	0.432	0.241	0.048	0.432	0.137	0.211	0.014	0.063	0.166	0.287	0.261	0.192	0.196	0.197	0.057	0.098	0.049	0.105	0.126	0.010	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	5	12	19	26	33	40	47	54	61	68	75	82	89	96	103	110	117	124	131	138	
LTE B13	QPSK	23230	792	1	0	Right Side	5mm	0.582	0.732	0.337	0.591	0.513	0.457	0.391	0.112	0.165	0.113	0.165	0.207	0.078	0.028	0.093	0.136	0.239	0.025	0.011	0.064	0.058	0.169	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	6	13	20	27	34	41	48	55	62	69	76	83	90	97	104	111	118	125	132	139	
LTE B26(5)	QPSK	26865	831.5	1	0	Back	5mm	0.717	0.828	0.455	0.764	0.316	0.213	0.776	0.291	0.413	0.077	0.415	0.322	0.158	0.360	0.041	0.269	0.361	0.042	0.040	0.105	0.109	0.172	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	0	1	2	3	4																
LTE B66 (4)	QPSK	132572	1770	1	0	Back	5mm	0.894	1.03	0.925	0.691	0.667	0.458	0.807																

Body>1.2 (Antenna #0, Slave ID=6)																																						
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Auto-Tune	Average Value of Time Sweep (W/kg)																												
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19									
WCDMA II	RMC 12.2Kbps	9262	1852.4	N/A	N/A	Back	5mm	0.927	1.54	0.613	1.261	0.615	0.762	0.748	0.694	0.904	0.981	0.784	0.400	0.846	1.191	1.257	1.074	1.337	1.271	1.240	1.081	0.464	1.247									
										20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39									
										0.985	1.037	0.933	1.096	1.014	1.075	0.895	0.391	0.803	1.490	1.446	1.502	1.297	1.316	1.512	1.417	0.930	1.220	1.405	1.466									
										40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59									
										1.517	1.280	1.094	0.990	1.491	0.799	1.383	1.285	1.493	1.400	1.466	1.082	1.224	1.131	0.779	1.371	1.365	1.399	1.243	1.143									
										60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79									
										1.505	1.243	1.445	1.388	1.371	1.253	1.510	1.453	1.263	1.403	1.323	1.428	1.112	1.303	1.430	1.345	1.353	1.089	1.165	1.068									
										80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99									
										1.403	1.385	1.278	1.501	1.166	1.530	1.493	1.243	1.013	1.185	0.958	0.901	1.233	1.160	1.053	1.203	1.516	1.111	1.238	1.160									
										100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119									
										1.163	1.010	1.429	1.123	1.045	1.333	1.011	1.023	1.050	0.943	1.073	0.990	1.182	0.799	1.383	1.297	1.505	1.136	1.512	1.503									
										120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139									
										1.113	1.089	0.961	0.875	1.158	1.171	0.842	1.180	0.783	0.523	1.285	1.493	1.385	0.960	1.082	1.224	1.131	0.779	1.371	1.231									
										140	141	142	143																									
										1.023	1.322	1.235	1.348																									
										Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Auto-Tune	Average Value of Time Sweep (W/kg)																		
																				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
WCDMA IV	RMC 12.2Kbps	1413	1732.6	N/A	N/A	Back	5mm	1.08	1.45	1.076	1.100	1.137	1.067	1.088	1.127	1.104	1.000	1.002	1.158	1.171	1.322	1.233	1.160	1.053	1.011	1.243	1.143	1.061	1.096									
										20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39									
										1.014	1.075	1.084	1.011	1.023	1.050	1.099	0.523	1.285	0.954	1.297	1.281	1.353	1.113	1.165	1.068	0.718	1.299	1.371	1.201									
										40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59									
										1.185	1.287	1.123	0.697	1.088	1.081	1.244	1.071	1.084	1.169	0.764	1.171	1.014	1.143	1.108	0.930	1.220	1.150	1.344	1.011									
										60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79									
										1.082	1.224	1.331	1.354	1.055	1.088	1.011	1.167	1.243	1.180	1.312	1.112	1.045	1.111	1.234	1.351	1.283	1.105	0.977	1.142									
										80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99									
										1.135	1.023	0.967	0.934	1.088	0.992	1.243	1.180	1.312	1.126	1.165	1.068	1.372	1.081	1.114	1.123	1.045	1.088	1.122	1.153									
										100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119									
										1.055	1.088	1.011	1.293	1.023	1.051	1.055	1.088	1.011	1.023	1.050	1.231	1.415	1.224	1.383	1.297	1.023	1.050	1.393	1.239									
										120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139									
										1.221	1.174	1.198	1.122	1.050	0.943	1.073	0.990	1.158	1.171	1.243	1.180	1.235	1.136	0.933	1.096	1.014	1.437	1.403	1.385									
										140	141	142	143																									
										1.278	1.243	1.180	1.312																									
										Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Auto-Tune	Average Value of Time Sweep (W/kg)																		
																				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
LTE B2	QPSK	18700	1860	1	0	Back	5mm	0.96	1.25	0.649	0.870	0.980	0.745	1.118	1.014	0.731	1.051	1.111	1.157	1.183	1.222	1.234	1.118	1.014	0.731	1.166	1.014	0.731	0.716									
										20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39									
										0.973	1.089	0.961	0.875	0.764	0.734	0.721	0.773	0.987	1.011	1.153	1.214	1.134	1.102	0.946	0.841	0.867	0.923	0.978	1.059									
										40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59									
										1.111	1.125	1.222	1.089	0.982	1.125	1.057	0.983	0.934	0.899	0.834	0.777	0.745	0.692	0.611	0.895	0.944	1.121	1.243	1.111									
										60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79									
										1.082	1.218	1.134	1.051	1.158	1.023	0.934	0.821	0.751	0.872	0.983	1.015	1.089	1.134	1.247	1.034	0.951	0.827	0.973	0.822									
										80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99									
										0.813	1.088	1.011	1.023	1.123	1.088	1.011	1.023	1.022	1.088	1.011	1.086	1.014	1.143	1.108	1.235	1.023	0.987	0.934	1.088									
										100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119									
										1.132	1.246	1.055	1.088	1.011	1.019	0.963	0.834	0.682	0.721	0.755	0.841	0.878	0.759	0.872	0.983	0.636	0.793	0.956	1.115									
										120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139									
										0.878	0.763	0.642	0.582	0.899	0.834	0.716	0.849	0.891	0.923	0.978	0.953	0.894	0.982	0.683	0.923	1.089	0.845	0.764	0.972									
										140	141	142	143																									
										1.043	1.123	1.188	0.892																									