



REPORT No. : SZ21020184S01

Annex E1 Conducted Full Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot	32.35	32.34	32.18	33.00	23.35	23.34	23.18	24.00
GPRS 1 Tx slot	32.35	32.35	32.18	33.00	23.35	23.35	23.18	24.00
GPRS 2 Tx slots	30.94	31.04	30.78	31.50	24.94	25.04	24.78	25.50
GPRS 3 Tx slots	28.86	28.97	28.85	29.50	24.60	24.71	24.59	25.24
GPRS 4 Tx slots	27.89	27.92	27.75	28.50	24.89	24.92	24.75	25.50
EDGE 1 Tx slot	26.50	26.70	26.49	27.00	17.50	17.70	17.49	18.00
EDGE 2 Tx slots	24.47	24.77	24.44	25.00	18.47	18.77	18.44	19.00
EDGE 3 Tx slots	22.90	22.95	22.85	23.50	18.64	18.69	18.59	19.24
EDGE 4 Tx slots	21.57	21.75	21.51	22.00	18.57	18.75	18.51	19.00
Antenna	Ant.1							

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	29.14	28.87	29.22	30.00	20.14	19.87	20.22	21.00
GPRS 1 Tx slot	29.24	28.77	29.27	30.00	20.24	19.77	20.27	21.00
GPRS 2 Tx slots	27.21	27.28	27.10	28.00	21.21	21.28	21.10	22.00
GPRS 3 Tx slots	25.32	25.43	25.47	26.00	21.06	21.17	21.21	21.74
GPRS 4 Tx slots	24.01	24.25	24.04	25.00	21.01	21.25	21.04	22.00
EDGE 1 Tx slot	25.43	25.13	25.16	26.00	16.43	16.13	16.16	17.00
EDGE 2 Tx slots	23.36	23.48	23.16	24.00	17.36	17.48	17.16	18.00
EDGE 3 Tx slots	21.52	21.58	21.73	22.00	17.26	17.32	17.47	17.74
EDGE 4 Tx slots	20.37	20.57	20.77	21.00	17.37	17.57	17.77	18.00
Antenna	Ant.2							

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	28.10	28.25	28.30	29.00	19.10	19.25	19.30	20.00
GPRS 1 Tx slot	28.14	28.27	28.31	29.00	19.14	19.27	19.31	20.00
GPRS 2 Tx slots	25.78	26.00	26.06	26.50	19.78	20.00	20.06	20.50
GPRS 3 Tx slots	24.10	24.47	24.44	25.00	19.84	20.21	20.18	20.74
GPRS 4 Tx slots	23.00	23.03	23.11	23.50	20.00	20.03	20.11	20.50
EDGE 1 Tx slot	24.18	24.26	24.21	24.50	15.18	15.26	15.21	15.50
EDGE 2 Tx slots	22.18	22.19	22.14	22.50	16.18	16.19	16.14	16.50
EDGE 3 Tx slots	20.56	20.68	20.66	21.00	16.30	16.42	16.40	16.74
EDGE 4 Tx slots	19.46	19.43	19.34	20.00	16.46	16.43	16.34	17.00
Antenna	Ant.4							

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233	
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 RMC 12.2Kbps	23.57	23.79	23.78	24.50	23.71	23.81	23.77	24.50	24.08	24.15	24.10	24.50
3GPP Rel 6 HSDPA Subtest-1	23.10	23.18	23.21	24.00	23.13	23.17	23.12	24.00	23.31	23.36	23.34	24.00
3GPP Rel 6 HSDPA Subtest-2	23.15	23.17	23.20	24.00	23.13	23.11	23.14	24.00	23.30	23.34	23.31	24.00
3GPP Rel 6 HSDPA Subtest-3	22.62	22.69	22.59	23.50	22.58	22.59	22.65	23.50	22.80	22.86	22.86	23.50
3GPP Rel 6 HSDPA Subtest-4	22.61	22.59	22.65	23.50	22.57	22.63	22.63	23.50	22.84	22.86	22.81	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.04	23.10	23.14	24.00	23.13	23.15	23.12	24.00	23.30	23.32	23.31	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.63	22.64	22.58	24.00	22.63	22.66	22.65	24.00	22.75	22.76	22.75	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	23.07	23.16	23.12	24.00	23.13	23.09	23.06	24.00	23.31	23.32	23.31	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	23.09	23.20	23.10	24.00	23.17	23.20	23.08	24.00	23.31	23.31	23.34	24.00
3GPP Rel 6 HSUPA Subtest-1	23.05	23.10	23.05	24.00	23.09	23.17	23.11	24.00	23.36	23.32	23.34	24.00
3GPP Rel 6 HSUPA Subtest-2	23.02	23.04	23.18	24.00	23.07	23.18	23.12	24.00	23.27	23.32	23.33	24.00
3GPP Rel 6 HSUPA Subtest-3	23.18	23.23	23.24	24.00	23.15	23.25	23.16	24.00	23.33	23.39	23.38	24.00
3GPP Rel 6 HSUPA Subtest-4	23.17	23.24	23.22	24.00	23.19	23.21	23.16	24.00	23.31	23.40	23.39	24.00
3GPP Rel 6 HSUPA Subtest-5	22.68	22.72	22.71	23.50	22.68	22.74	22.70	23.50	22.86	22.88	22.84	23.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	22.71	22.73	22.69	23.50	22.66	22.73	22.68	23.50	22.85	22.89	22.83	23.50
Antenna	Ant.2				Ant.2				Ant.1			

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel	9262	9400	9538		1312	1413	1513	
Rx Channel	9662	9800	9938	(dBm)	1537	1638	1738	(dBm)
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99 RMC 12.2Kbps	22.72	22.74	22.73	23.50	22.68	22.88	22.87	23.50
3GPP Rel 6 HSDPA Subtest-1	21.98	22.04	21.97	22.50	22.03	22.08	22.06	22.50
3GPP Rel 6 HSDPA Subtest-2	21.98	21.98	21.98	22.50	22.00	22.04	21.98	22.50
3GPP Rel 6 HSDPA Subtest-3	21.38	21.47	21.48	22.00	21.48	21.53	21.53	22.00
3GPP Rel 6 HSDPA Subtest-4	21.38	21.55	21.45	22.00	21.53	21.49	21.52	22.00
3GPP Rel 8 DC-HSDPA Subtest-1	22.05	22.02	22.04	22.50	22.03	22.06	22.09	22.50
3GPP Rel 8 DC-HSDPA Subtest-2	21.47	21.50	21.54	22.50	21.49	21.50	21.48	22.50
3GPP Rel 8 DC-HSDPA Subtest-3	21.97	22.07	22.07	22.50	22.03	22.09	22.02	22.50
3GPP Rel 8 DC-HSDPA Subtest-4	21.96	22.08	22.03	22.50	21.98	22.04	21.99	22.50
3GPP Rel 6 HSUPA Subtest-1	21.98	22.07	22.01	22.50	22.05	21.96	22.03	22.50
3GPP Rel 6 HSUPA Subtest-2	22.01	22.05	22.07	22.50	22.06	22.09	22.06	22.50
3GPP Rel 6 HSUPA Subtest-3	21.98	22.03	22.04	22.50	21.97	22.07	21.98	22.50
3GPP Rel 6 HSUPA Subtest-4	21.97	22.04	22.02	22.50	22.01	22.03	21.98	22.50
3GPP Rel 6 HSUPA Subtest-5	21.48	21.52	21.51	22.00	21.50	21.56	21.52	22.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	21.51	21.53	21.49	22.00	21.48	21.55	21.50	22.00
Antenna	Ant.4				Ant.4			

Band	CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175	
Frequency (MHz)	824.7	836.52	848.31	(dBm)	1851.25	1880	1908.75	(dBm)
RC1 SO55	24.07	24.12	24.08	24.50	23.93	23.98	23.94	24.50
RC3 SO55	24.11	24.13	24.13	24.50	24.00	24.02	24.02	24.50
RC3 SO32 (F+SCH)	24.11	24.09	24.10	24.50	23.98	23.96	23.97	24.50
RC3 SO32 (+SCH)	23.60	24.06	23.87	24.50	23.99	24.01	24.02	24.50
RTAP 153.6Kbps	23.90	24.16	24.04	24.50	24.03	24.05	24.01	24.50
RETAP 4096Bbits	23.15	23.37	23.01	24.00	23.81	23.91	23.86	24.50
Antenna	Ant.1				Ant.2			

Band	CDMA2000 BC1			Tune-up Limit (dBm)
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	22.93	22.96	22.82	23.50
RC3 SO55	22.95	22.96	22.97	23.50
RC3 SO32 (F+SCH)	22.95	22.98	22.95	23.50
RC3 SO32 (+SCH)	22.91	22.94	22.97	23.50
RTAP 153.6Kbps	22.95	23.03	22.96	23.50
RETAP 4096Bits	22.92	22.86	22.80	23.50
Antenna	Ant.4			

LTE Band 2 (Ant.2)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	24.05	24.26	23.98	25.00	
20	QPSK	1	49	23.88	24.04	23.81		
20	QPSK	1	99	23.86	23.89	23.76		
20	QPSK	50	0	23.15	23.26	23.11		
20	QPSK	50	24	23.17	23.08	23.01		
20	QPSK	50	50	23.01	22.99	22.94	24.00	
20	QPSK	100	0	23.11	23.05	22.97		
20	16QAM	1	0	23.74	23.75	23.53		
20	16QAM	1	49	23.63	23.60	23.48		
20	16QAM	1	99	23.77	23.65	23.50		
20	16QAM	50	0	22.14	22.19	22.03	23.00	
20	16QAM	50	24	22.29	22.05	22.04		
20	16QAM	50	50	22.08	21.95	21.92		
20	16QAM	100	0	22.15	22.06	22.05		
20	64QAM	1	0	22.12	22.24	22.24		
20	64QAM	1	49	22.08	22.21	22.17	23.00	
20	64QAM	1	99	22.15	22.15	22.46		
20	64QAM	50	0	21.16	20.84	21.09		
20	64QAM	50	24	21.27	21.10	21.08		
20	64QAM	50	50	20.88	21.06	20.97		
20	64QAM	100	0	20.94	21.02	21.16	22.00	
Channel				18675	18900	19125		Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	24.09	24.09	24.20	25.00	
15	QPSK	1	37	23.95	23.85	23.94		
15	QPSK	1	74	24.08	23.87	23.80		
15	QPSK	36	0	23.16	23.07	23.01		
15	QPSK	36	20	23.14	22.97	22.95		
15	QPSK	36	39	23.11	23.03	22.89	24.00	
15	QPSK	75	0	23.10	23.08	23.04		
15	16QAM	1	0	23.27	23.50	23.22		
15	16QAM	1	37	23.48	23.17	23.17		
15	16QAM	1	74	23.14	23.10	23.54		
15	16QAM	36	0	22.22	22.08	22.10	23.00	
15	16QAM	36	20	22.11	22.10	21.97		
15	16QAM	36	39	22.06	22.09	21.90		
15	16QAM	75	0	22.12	22.02	22.03		
15	64QAM	1	0	22.19	22.13	22.24		
15	64QAM	1	37	22.27	22.14	22.16	23.00	
15	64QAM	1	74	21.99	22.14	22.38		
15	64QAM	36	0	21.09	20.82	21.13		
15	64QAM	36	20	21.21	20.94	21.09		
15	64QAM	36	39	21.02	20.94	21.02		
15	64QAM	75	0	20.92	21.11	21.09	22.00	
Channel				18650	18900	19150		Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	24.07	24.19	23.93	25.00	
10	QPSK	1	25	23.92	23.78	23.80		
10	QPSK	1	49	23.79	23.71	23.94		
10	QPSK	25	0	23.18	23.17	23.01		
10	QPSK	25	12	23.12	22.97	23.11		
10	QPSK	25	25	23.07	22.97	22.89	24.00	
10	QPSK	50	0	23.12	23.08	23.09		
10	16QAM	1	0	23.46	23.66	23.22		
10	16QAM	1	25	23.29	23.24	23.57		
10	16QAM	1	49	23.32	23.33	23.44		
10	16QAM	25	0	22.14	22.09	22.00	23.00	
10	16QAM	25	12	22.00	22.04	21.91		
10	16QAM	25	25	21.96	21.97	22.00		
10	16QAM	50	0	22.12	21.96	22.03		
10	64QAM	1	0	22.14	22.33	22.13		
10	64QAM	1	25	22.18	22.45	22.34	23.00	
10	64QAM	1	49	22.00	22.24	22.27		
10	64QAM	25	0	21.13	20.76	21.13		
10	64QAM	25	12	21.21	20.90	21.04		
10	64QAM	25	25	20.91	21.04	20.96		
10	64QAM	50	0	20.90	21.12	21.02	22.00	
Channel				18625	18900	19175		Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	24.18	24.10	24.05	25.00	
5	QPSK	1	12	23.99	23.82	23.89		
5	QPSK	1	24	23.92	23.69	23.70		
5	QPSK	12	0	23.17	23.21	23.08		
5	QPSK	12	7	23.17	23.07	22.97		
5	QPSK	12	13	23.01	23.12	22.92	24.00	
5	QPSK	25	0	23.12	23.07	23.04		
5	16QAM	1	0	23.44	23.42	23.70		
5	16QAM	1	12	23.25	23.23	23.29		
5	16QAM	1	24	23.17	23.16	23.14		
5	16QAM	12	0	22.25	22.14	22.14	23.00	
5	16QAM	12	7	22.20	22.02	21.97		
5	16QAM	12	13	22.06	22.04	21.99		
5	16QAM	25	0	22.15	22.16	22.01		
5	64QAM	1	0	22.15	22.17	22.24		
5	64QAM	1	12	22.12	22.33	22.24	23.00	
5	64QAM	1	24	22.13	22.59	22.49		
5	64QAM	12	0	21.21	20.82	21.17		
5	64QAM	12	7	21.25	21.10	21.09		
5	64QAM	12	13	20.98	21.04	20.98		
5	64QAM	25	0	20.99	21.05	21.03	22.00	
Channel				18615	18900	19185		Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	24.18	24.09	24.04	25.00	
3	QPSK	1	8	23.87	23.94	23.88		
3	QPSK	1	14	23.92	23.89	23.99		
3	QPSK	8	0	23.18	23.14	23.13		

LTE Band 2 (Ant.4)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	21.89	21.93	21.73	22.50	
20	QPSK	1	49	21.60	21.53	21.55		
20	QPSK	1	99	21.58	21.59	21.57		
20	QPSK	50	0	20.88	20.91	20.85		
20	QPSK	50	24	20.85	20.60	20.78		
20	QPSK	50	50	20.77	20.71	20.75	22.50	
20	QPSK	100	0	20.90	20.83	20.81		
20	16QAM	1	0	21.00	20.97	20.88		
20	16QAM	1	49	20.89	20.84	20.91		
20	16QAM	1	99	20.87	20.78	20.73		
20	16QAM	50	0	19.78	19.88	19.78	22.50	
20	16QAM	50	24	19.93	19.67	19.65		
20	16QAM	50	50	19.85	19.79	19.72		
20	16QAM	100	0	19.82	19.81	19.75		
20	64QAM	1	0	19.78	19.79	19.95		
20	64QAM	1	49	19.86	19.92	19.73	22.50	
20	64QAM	1	99	19.55	19.91	19.82		
20	64QAM	50	0	19.01	18.31	18.84		
20	64QAM	50	24	18.85	18.48	18.71		
20	64QAM	50	50	18.53	18.74	18.78		
20	64QAM	100	0	18.66	18.76	18.77	22.50	
Channel				18675	18900	19125		Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	21.78	21.82	21.62	22.50	
15	QPSK	1	37	21.49	21.42	21.44		
15	QPSK	1	74	21.47	21.48	21.46		
15	QPSK	36	0	20.77	20.80	20.74		
15	QPSK	36	20	20.74	20.49	20.67		
15	QPSK	36	39	20.66	20.60	20.64	22.50	
15	QPSK	75	0	20.79	20.72	20.70		
15	16QAM	1	0	20.89	20.86	20.77		
15	16QAM	1	37	20.78	20.73	20.80		
15	16QAM	1	74	20.76	20.67	20.62		
15	16QAM	36	0	19.67	19.77	19.67	22.50	
15	16QAM	36	20	19.82	19.56	19.54		
15	16QAM	36	39	19.74	19.68	19.61		
15	16QAM	75	0	19.71	19.70	19.64		
15	64QAM	1	0	19.67	19.68	19.84		
15	64QAM	1	37	19.75	19.81	19.62	22.50	
15	64QAM	1	74	19.44	19.80	19.71		
15	64QAM	36	0	18.90	18.20	18.73		
15	64QAM	36	20	18.74	18.37	18.60		
15	64QAM	36	39	18.42	18.63	18.67		
15	64QAM	75	0	18.55	18.65	18.66	22.50	
Channel				18650	18900	19150		Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	21.67	21.71	21.51	22.00	
10	QPSK	1	25	21.38	21.31	21.33		
10	QPSK	1	49	21.36	21.37	21.35		
10	QPSK	25	0	20.66	20.69	20.63		
10	QPSK	25	12	20.63	20.38	20.56		
10	QPSK	25	25	20.55	20.49	20.53	22.00	
10	QPSK	50	0	20.68	20.61	20.59		
10	16QAM	1	0	20.78	20.75	20.66		
10	16QAM	1	25	20.67	20.62	20.69		
10	16QAM	1	49	20.65	20.56	20.51		
10	16QAM	25	0	19.56	19.66	19.56	22.00	
10	16QAM	25	12	19.71	19.45	19.43		
10	16QAM	25	25	19.63	19.57	19.50		
10	16QAM	50	0	19.60	19.59	19.53		
10	64QAM	1	0	19.56	19.57	19.73		
10	64QAM	1	25	19.64	19.70	19.51	22.00	
10	64QAM	1	49	19.33	19.69	19.60		
10	64QAM	25	0	18.79	18.09	18.62		
10	64QAM	25	12	18.63	18.26	18.49		
10	64QAM	25	25	18.31	18.52	18.56		
10	64QAM	50	0	18.44	18.54	18.55	22.00	
Channel				18625	18900	19175		Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	21.55	21.59	21.39	22.00	
5	QPSK	1	12	21.26	21.19	21.21		
5	QPSK	1	24	21.24	21.25	21.23		
5	QPSK	12	0	20.54	20.57	20.51		
5	QPSK	12	7	20.51	20.26	20.44		
5	QPSK	12	13	20.43	20.37	20.41	22.00	
5	QPSK	25	0	20.56	20.49	20.47		
5	16QAM	1	0	20.66	20.63	20.54		
5	16QAM	1	12	20.55	20.50	20.57		
5	16QAM	1	24	20.53	20.44	20.39		
5	16QAM	12	0	19.44	19.54	19.44	22.00	
5	16QAM	12	7	19.59	19.33	19.31		
5	16QAM	12	13	19.51	19.45	19.38		
5	16QAM	25	0	19.48	19.47	19.41		
5	64QAM	1	0	19.44	19.45	19.61		
5	64QAM	1	12	19.52	19.58	19.39	22.00	
5	64QAM	1	24	19.21	19.57	19.48		
5	64QAM	12	0	18.67	17.97	18.50		
5	64QAM	12	7	18.51	18.14	18.37		
5	64QAM	12	13	18.19	18.40	18.44		
5	64QAM	25	0	18.32	18.42	18.43	22.00	
Channel				18615	18900	19185		Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	21.42	21.46	21.26	22.00	
3	QPSK	1	8	21.13	21.06	21.08		
3	QPSK	1	14	21.11	21.12	21.10		
3	QPSK	8	0	20.41	20.44	20.38		

3	QPSK	8	4	23.12	23.09	22.99	24.00
3	QPSK	8	7	23.14	23.07	22.96	
3	QPSK	15	0	23.20	23.10	23.07	
3	16QAM	1	0	23.41	23.49	23.37	24.00
3	16QAM	1	8	23.35	23.30	23.49	
3	16QAM	1	14	23.18	23.33	23.23	
3	16QAM	8	0	22.19	22.22	21.97	23.00
3	16QAM	8	4	22.12	22.00	21.99	
3	16QAM	8	7	22.09	22.08	21.97	
3	16QAM	15	0	22.22	22.00	22.03	23.00
3	64QAM	1	0	22.07	22.34	22.50	
3	64QAM	1	8	22.28	22.39	22.28	
3	64QAM	1	14	22.52	22.40	22.40	22.00
3	64QAM	8	0	21.17	20.79	21.20	
3	64QAM	8	4	21.29	20.87	21.01	
3	64QAM	8	7	20.89	21.07	20.95	Tune-up limit (dRm)
3	64QAM	15	0	21.09	21.14	21.03	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	25.00
1.4	QPSK	1	0	24.19	24.07	23.95	
1.4	QPSK	1	3	23.92	23.94	24.04	
1.4	QPSK	1	5	23.96	24.05	24.00	24.00
1.4	QPSK	3	0	23.18	23.19	23.05	
1.4	QPSK	3	1	23.18	22.97	22.98	
1.4	QPSK	3	3	23.03	23.05	22.94	24.00
1.4	QPSK	6	0	23.14	23.09	23.01	
1.4	16QAM	1	0	23.36	23.61	23.65	
1.4	16QAM	1	3	23.63	23.35	23.47	23.00
1.4	16QAM	1	5	23.28	23.26	23.30	
1.4	16QAM	3	0	22.19	22.11	22.20	
1.4	16QAM	3	1	22.21	22.17	21.97	23.00
1.4	16QAM	3	3	22.10	22.05	22.06	
1.4	16QAM	6	0	22.19	22.05	22.00	
1.4	64QAM	1	0	22.09	22.12	22.32	23.00
1.4	64QAM	1	3	22.06	22.39	22.00	
1.4	64QAM	1	5	21.99	22.34	22.09	
1.4	64QAM	3	0	21.20	20.80	21.09	22.00
1.4	64QAM	3	1	21.21	20.99	21.06	
1.4	64QAM	3	3	21.01	21.09	20.98	
1.4	64QAM	6	0	20.94	21.03	21.09	

3	QPSK	8	4	20.38	20.13	20.31	22.00
3	QPSK	8	7	20.30	20.24	20.28	
3	QPSK	15	0	20.43	20.36	20.34	
3	16QAM	1	0	20.53	20.50	20.41	22.00
3	16QAM	1	8	20.42	20.37	20.44	
3	16QAM	1	14	20.40	20.31	20.26	
3	16QAM	8	0	19.31	19.41	19.31	22.00
3	16QAM	8	4	19.46	19.20	19.18	
3	16QAM	8	7	19.38	19.32	19.25	
3	16QAM	15	0	19.35	19.34	19.28	20.00
3	64QAM	1	0	19.31	19.32	19.48	
3	64QAM	1	8	19.39	19.45	19.26	
3	64QAM	1	14	19.08	19.44	19.35	19.00
3	64QAM	8	0	18.54	17.84	18.37	
3	64QAM	8	4	18.38	18.01	18.24	
3	64QAM	8	7	18.06	18.27	18.31	Tune-up limit (dRm)
3	64QAM	15	0	18.19	18.29	18.30	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	21.50
1.4	QPSK	1	0	21.12	21.16	21.16	
1.4	QPSK	1	3	21.03	20.96	20.98	
1.4	QPSK	1	5	21.01	21.02	21.00	21.50
1.4	QPSK	3	0	20.31	20.34	20.28	
1.4	QPSK	3	1	20.28	20.03	20.21	
1.4	QPSK	3	3	20.20	20.14	20.18	21.50
1.4	QPSK	6	0	20.33	20.26	20.24	
1.4	16QAM	1	0	20.43	20.40	20.31	
1.4	16QAM	1	3	20.32	20.27	20.34	21.50
1.4	16QAM	1	5	20.30	20.21	20.16	
1.4	16QAM	3	0	19.21	19.31	19.21	
1.4	16QAM	3	1	19.36	19.10	19.08	21.50
1.4	16QAM	3	3	19.28	19.22	19.15	
1.4	16QAM	6	0	19.12	19.14	19.08	
1.4	64QAM	1	0	19.21	19.22	19.38	19.50
1.4	64QAM	1	3	19.29	19.35	19.16	
1.4	64QAM	1	5	18.98	19.34	19.25	
1.4	64QAM	3	0	18.44	17.74	18.27	19.00
1.4	64QAM	3	1	18.28	17.91	18.14	
1.4	64QAM	3	3	17.96	18.17	18.21	
1.4	64QAM	6	0	18.09	18.19	18.20	

LTE Band 4 (Ant.2)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20050	20175	20300	25.00		
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	24.27	24.48	24.20			
20	QPSK	1	49	24.10	24.26	24.03	24.00		
20	QPSK	1	99	24.08	24.11	23.98			
20	QPSK	50	0	23.37	23.48	23.33			
20	QPSK	50	24	23.39	23.30	23.23	24.00		
20	QPSK	50	50	23.23	23.21	23.16			
20	QPSK	100	0	23.33	23.27	23.19			
20	16QAM	1	0	23.96	23.97	23.75	24.00		
20	16QAM	1	49	23.85	23.82	23.70			
20	16QAM	1	99	23.99	23.87	23.72			
20	16QAM	50	0	22.36	22.41	22.25	23.00		
20	16QAM	50	24	22.51	22.27	22.26			
20	16QAM	50	50	22.30	22.17	22.14			
20	16QAM	100	0	22.37	22.28	22.27	23.00		
20	64QAM	1	0	22.34	22.46	22.46			
20	64QAM	1	49	22.30	22.43	22.39			
20	64QAM	1	99	22.37	22.37	22.68	22.00		
20	64QAM	50	0	21.38	21.06	21.31			
20	64QAM	50	24	21.49	21.32	21.30			
20	64QAM	50	50	21.10	21.28	21.19	22.00		
20	64QAM	100	0	21.16	21.24	21.38			
Channel				20025	20175	20325	25.00		
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	24.31	24.31	24.42			
15	QPSK	1	37	24.17	24.07	24.16	24.00		
15	QPSK	1	74	24.30	24.09	24.02			
15	QPSK	36	0	23.38	23.29	23.23			
15	QPSK	36	20	23.36	23.19	23.17	24.00		
15	QPSK	36	39	23.33	23.25	23.11			
15	QPSK	75	0	23.32	23.30	23.26			
15	16QAM	1	0	23.49	23.72	23.44	24.00		
15	16QAM	1	37	23.70	23.39	23.39			
15	16QAM	1	74	23.36	23.32	23.76			
15	16QAM	36	0	22.44	22.30	22.32	23.00		
15	16QAM	36	20	22.33	22.32	22.19			
15	16QAM	36	39	22.28	22.31	22.12			
15	16QAM	75	0	22.34	22.24	22.25	23.00		
15	64QAM	1	0	22.41	22.35	22.46			
15	64QAM	1	37	22.49	22.36	22.38			
15	64QAM	1	74	22.21	22.36	22.60	22.00		
15	64QAM	36	0	21.31	21.04	21.35			
15	64QAM	36	20	21.43	21.16	21.31			
15	64QAM	36	39	21.24	21.16	21.24	22.00		
15	64QAM	75	0	21.14	21.33	21.31			
Channel				20000	20175	20350	25.00		
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	24.29	24.41	24.15			
10	QPSK	1	25	24.14	24.00	24.02	24.00		
10	QPSK	1	49	24.01	23.93	24.16			
10	QPSK	25	0	23.40	23.39	23.23			
10	QPSK	25	12	23.34	23.19	23.33	24.00		
10	QPSK	25	25	23.29	23.19	23.11			
10	QPSK	50	0	23.34	23.30	23.31			
10	16QAM	1	0	23.68	23.88	23.44	24.00		
10	16QAM	1	25	23.51	23.46	23.79			
10	16QAM	1	49	23.54	23.55	23.66			
10	16QAM	25	0	22.36	22.31	22.22	23.00		
10	16QAM	25	12	22.22	22.26	22.13			
10	16QAM	25	25	22.18	22.19	22.22			
10	16QAM	50	0	22.34	22.18	22.25	23.00		
10	64QAM	1	0	22.36	22.55	22.35			
10	64QAM	1	25	22.40	22.67	22.56			
10	64QAM	1	49	22.22	22.46	22.49	22.00		
10	64QAM	25	0	21.35	20.98	21.35			
10	64QAM	25	12	21.43	21.12	21.26			
10	64QAM	25	25	21.13	21.26	21.18	22.00		
10	64QAM	50	0	21.12	21.34	21.24			
Channel				19975	20175	20375	25.00		
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	24.40	24.32	24.27			
5	QPSK	1	12	24.21	24.04	24.11	24.00		
5	QPSK	1	24	24.14	23.91	23.92			
5	QPSK	12	0	23.39	23.43	23.30			
5	QPSK	12	7	23.39	23.29	23.19	24.00		
5	QPSK	12	13	23.23	23.34	23.14			
5	QPSK	25	0	23.34	23.29	23.26			
5	16QAM	1	0	23.66	23.64	23.92	24.00		
5	16QAM	1	12	23.47	23.45	23.51			
5	16QAM	1	24	23.39	23.38	23.36			
5	16QAM	12	0	22.47	22.36	22.36	23.00		
5	16QAM	12	7	22.42	22.24	22.19			
5	16QAM	12	13	22.28	22.26	22.21			
5	16QAM	25	0	22.37	22.38	22.23	23.00		
5	64QAM	1	0	22.37	22.39	22.46			
5	64QAM	1	12	22.34	22.55	22.46			
5	64QAM	1	24	22.35	22.81	22.71	22.00		
5	64QAM	12	0	21.43	21.04	21.39			
5	64QAM	12	7	21.47	21.32	21.31			
5	64QAM	12	13	21.20	21.26	21.20	22.00		
5	64QAM	25	0	21.21	21.27	21.25			
Channel				19965	20175	20385	25.00		
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	24.40	24.31	24.26			
3	QPSK	1	8	24.09	24.16	24.10	25.00		
3	QPSK	1	14	24.14	24.11	24.21			
3	QPSK	8	0	23.40	23.36	23.35			

LTE Band 4 (Ant.4)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	23.50
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.14	23.18	22.88	23.50
20	QPSK	1	49	22.75	22.68	22.70	
20	QPSK	1	99	22.73	22.74	22.72	
20	QPSK	50	0	22.03	22.05	22.00	23.50
20	QPSK	50	24	22.00	21.85	21.93	
20	QPSK	50	50	21.92	21.86	21.90	
20	QPSK	100	0	22.05	21.98	21.96	23.50
20	16QAM	1	0	22.35	22.12	22.03	
20	16QAM	1	49	22.24	22.09	22.06	
20	16QAM	1	99	22.02	21.93	21.88	23.50
20	16QAM	50	0	20.93	21.03	20.93	
20	16QAM	50	24	21.08	20.82	20.80	
20	16QAM	50	50	21.00	20.94	20.87	23.50
20	16QAM	100	0	20.97	20.96	20.90	
20	64QAM	1	0	20.93	20.94	21.20	
20	64QAM	1	49	21.01	21.17	20.88	23.50
20	64QAM	1	99	20.70	21.16	20.97	
20	64QAM	50	0	20.16	19.46	19.99	
20	64QAM	50	24	20.00	19.63	19.86	23.50
20	64QAM	50	50	19.68	19.89	19.93	
20	64QAM	100	0	19.81	19.91	19.92	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	23.50
15	QPSK	1	0	22.93	22.91	22.91	
15	QPSK	1	37	22.82	22.87	22.84	
15	QPSK	1	74	22.75	22.69	22.65	23.50
15	QPSK	36	0	22.00	21.97	21.92	
15	QPSK	36	20	22.02	21.92	21.97	
15	QPSK	36	39	21.93	21.86	21.85	23.50
15	QPSK	75	0	22.04	21.90	21.86	
15	16QAM	1	0	22.20	22.30	22.42	
15	16QAM	1	37	22.03	22.29	22.14	23.50
15	16QAM	1	74	22.15	22.27	22.15	
15	16QAM	36	0	20.99	20.96	21.03	
15	16QAM	36	20	20.94	20.95	20.96	23.50
15	16QAM	36	39	20.90	20.88	20.89	
15	16QAM	75	0	21.01	20.94	20.87	
15	64QAM	1	0	20.78	21.06	21.26	23.50
15	64QAM	1	37	20.79	21.11	21.19	
15	64QAM	1	74	21.08	21.22	20.93	
15	64QAM	36	0	19.94	19.68	19.96	23.50
15	64QAM	36	20	20.08	19.94	19.90	
15	64QAM	36	39	20.03	19.86	19.81	
15	64QAM	75	0	19.98	19.96	19.92	Tune-up limit (dBm)
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	23.50
10	QPSK	1	0	22.83	23.03	23.07	
10	QPSK	1	25	22.77	22.93	22.78	
10	QPSK	1	49	22.76	22.80	22.66	23.50
10	QPSK	25	0	21.96	22.05	21.93	
10	QPSK	25	12	22.02	21.85	21.98	
10	QPSK	25	25	21.90	21.97	21.81	23.50
10	QPSK	50	0	22.01	21.91	21.94	
10	16QAM	1	0	22.33	22.37	21.80	
10	16QAM	1	25	22.36	22.17	21.83	23.50
10	16QAM	1	49	22.03	21.90	22.17	
10	16QAM	25	0	21.03	20.94	20.96	
10	16QAM	25	12	21.07	20.97	21.02	23.50
10	16QAM	25	25	20.98	20.94	20.86	
10	16QAM	50	0	20.97	20.90	20.90	
10	64QAM	1	0	20.90	21.13	21.35	23.50
10	64QAM	1	25	21.02	21.01	21.12	
10	64QAM	1	49	21.00	20.69	21.21	
10	64QAM	25	0	20.10	19.54	19.99	23.50
10	64QAM	25	12	19.96	19.54	19.95	
10	64QAM	25	25	19.73	19.89	19.92	
10	64QAM	50	0	19.80	19.90	19.92	Tune-up limit (dBm)
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	23.50
5	QPSK	1	0	22.97	22.82	22.85	
5	QPSK	1	12	22.72	22.82	22.67	
5	QPSK	1	24	22.79	22.55	22.63	23.50
5	QPSK	12	0	22.08	21.98	21.90	
5	QPSK	12	7	22.00	21.85	21.80	
5	QPSK	12	13	21.92	21.83	21.86	23.50
5	QPSK	25	0	21.91	21.91	21.93	
5	16QAM	1	0	22.37	22.43	22.29	
5	16QAM	1	12	22.32	21.95	22.25	23.50
5	16QAM	1	24	22.32	21.92	22.36	
5	16QAM	12	0	21.05	21.04	20.91	
5	16QAM	12	7	20.99	20.94	20.84	23.50
5	16QAM	12	13	20.93	20.90	20.82	
5	16QAM	25	0	21.06	20.82	20.82	
5	64QAM	1	0	20.96	21.09	21.21	23.50
5	64QAM	1	12	21.04	20.81	20.87	
5	64QAM	1	24	20.76	21.11	21.17	
5	64QAM	12	0	19.99	19.39	20.11	23.50
5	64QAM	12	7	19.97	19.39	19.88	
5	64QAM	12	13	19.61	20.15	19.91	
5	64QAM	25	0	19.80	19.94	19.92	Tune-up limit (dBm)
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	23.50
3	QPSK	1	0	23.03	22.84	23.09	
3	QPSK	1	8	22.72	22.80	22.73	
3	QPSK	1	14	22.66	22.68	22.63	23.50
3	QPSK	8	0	22.04	21.97	21.98	

3	QPSK	8	4	23.34	23.31	23.21	24.00
3	QPSK	8	7	23.36	23.29	23.18	
3	QPSK	15	0	23.42	23.32	23.29	
3	16QAM	1	0	23.63	23.71	23.59	24.00
3	16QAM	1	8	23.57	23.52	23.71	
3	16QAM	1	14	23.40	23.55	23.45	
3	16QAM	8	0	22.41	22.44	22.19	23.00
3	16QAM	8	4	22.34	22.22	22.21	
3	16QAM	8	7	22.31	22.30	22.19	
3	16QAM	15	0	22.44	22.22	22.25	23.00
3	16QAM	1	0	22.29	22.56	22.72	
3	16QAM	1	8	22.50	22.61	22.50	
3	16QAM	1	14	22.74	22.62	22.62	22.00
3	16QAM	8	0	21.39	21.01	21.42	
3	16QAM	8	4	21.51	21.09	21.23	
3	16QAM	8	7	21.11	21.29	21.17	Tune-up limit (dBm)
3	16QAM	15	0	21.31	21.36	21.25	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25.00
1.4	QPSK	1	0	24.41	24.29	24.17	
1.4	QPSK	1	3	24.14	24.16	24.26	
1.4	QPSK	1	5	24.18	24.27	24.22	24.00
1.4	QPSK	3	0	23.40	23.41	23.27	
1.4	QPSK	3	1	23.40	23.19	23.20	
1.4	QPSK	3	3	23.25	23.27	23.16	24.00
1.4	QPSK	6	0	23.36	23.31	23.23	
1.4	16QAM	1	0	23.58	23.83	23.87	
1.4	16QAM	1	3	23.85	23.57	23.69	23.00
1.4	16QAM	1	5	23.50	23.48	23.52	
1.4	16QAM	3	0	22.41	22.33	22.42	
1.4	16QAM	3	1	22.43	22.39	22.19	23.00
1.4	16QAM	3	3	22.32	22.27	22.28	
1.4	16QAM	6	0	22.41	22.27	22.22	
1.4	16QAM	1	0	22.31	22.34	22.54	22.00
1.4	16QAM	1	3	22.28	22.61	22.22	
1.4	16QAM	1	5	22.21	22.56	22.31	
1.4	16QAM	3	0	21.42	21.02	21.31	22.00
1.4	16QAM	3	1	21.43	21.21	21.28	
1.4	16QAM	3	3	21.23	21.31	21.20	
1.4	16QAM	6	0	21.16	21.25	21.31	

3	QPSK	8	4	21.98	21.88	21.82	23.50
3	QPSK	8	7	21.86	21.85	21.89	
3	QPSK	15	0	21.94	22.00	21.95	
3	16QAM	1	0	21.89	22.27	22.32	23.50
3	16QAM	1	8	21.96	21.86	21.80	
3	16QAM	1	14	22.36	22.13	21.95	
3	16QAM	8	0	21.04	21.04	20.96	23.50
3	16QAM	8	4	20.96	20.87	20.96	
3	16QAM	8	7	20.98	20.89	20.88	
3	16QAM	15	0	20.98	20.93	20.95	21.50
3	16QAM	1	0	20.90	21.12	21.12	
3	16QAM	1	8	21.14	21.13	21.09	
3	16QAM	1	14	20.65	20.87	21.25	20.50
3	16QAM	8	0	20.04	19.58	19.99	
3	16QAM	8	4	20.02	19.56	19.86	
3	16QAM	8	7	19.70	19.88	19.92	Tune-up limit (dBm)
3	16QAM	15	0	19.78	20.01	20.00	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	23.50
1.4	QPSK	1	0	22.98	23.00	22.91	
1.4	QPSK	1	3	22.84	22.82	22.70	
1.4	QPSK	1	5	22.62	22.69	22.61	23.50
1.4	QPSK	3	0	21.96	22.00	21.87	
1.4	QPSK	3	1	22.02	21.90	21.92	
1.4	QPSK	3	3	21.84	21.86	21.86	23.50
1.4	QPSK	6	0	22.04	21.92	21.96	
1.4	16QAM	1	0	21.94	22.19	22.23	
1.4	16QAM	1	3	22.22	22.32	22.06	23.50
1.4	16QAM	1	5	22.00	21.97	22.15	
1.4	16QAM	3	0	20.92	21.02	21.00	
1.4	16QAM	3	1	20.83	20.89	20.87	23.50
1.4	16QAM	3	3	20.82	20.98	20.94	
1.4	16QAM	6	0	20.97	20.90	21.00	
1.4	16QAM	1	0	21.09	20.84	21.14	21.50
1.4	16QAM	1	3	20.90	20.84	20.88	
1.4	16QAM	1	5	20.81	21.01	21.03	
1.4	16QAM	3	0	20.23	20.24	19.91	20.50
1.4	16QAM	3	1	19.97	20.09	19.89	
1.4	16QAM	3	3	20.14	19.81	19.84	
1.4	16QAM	6	0	19.72	19.92	19.99	

LTE Band 5 (Ant.1)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844	25.00	
10	QPSK	1	0	24.24	24.59	24.50		
10	QPSK	1	25	24.27	24.45	24.50		
10	QPSK	1	49	24.27	24.43	24.44		
10	QPSK	25	0	23.50	23.55	23.45		
10	QPSK	25	12	23.54	23.54	23.52	24.00	
10	QPSK	25	25	23.43	23.49	23.48		
10	QPSK	50	0	23.50	23.48	23.46		
10	16QAM	1	0	23.59	23.89	23.74		
10	16QAM	1	25	23.92	23.71	23.96	24.00	
10	16QAM	1	49	23.91	23.70	23.91		
10	16QAM	25	0	22.55	22.51	22.47		
10	16QAM	25	12	22.68	22.57	22.60		
10	16QAM	25	25	22.39	22.57	22.59		
10	16QAM	50	0	22.52	22.41	22.40	23.00	
10	64QAM	1	0	23.03	22.81	22.80		
10	64QAM	1	25	22.74	22.95	22.60		
10	64QAM	1	49	22.71	22.77	22.54		
10	64QAM	25	0	21.59	21.48	21.52		
10	64QAM	25	12	21.60	21.53	21.47	22.00	
10	64QAM	25	25	21.50	21.51	21.42		
10	64QAM	50	0	21.55	21.51	21.53		
Channel				20425	20525	20625	Tune-up limit (dBm)	
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	24.42	24.45	24.41	25.00	
5	QPSK	1	12	24.41	24.52	24.53		
5	QPSK	1	24	24.43	24.47	24.35		
5	QPSK	12	0	23.50	23.55	23.56		
5	QPSK	12	7	23.50	23.51	23.52		
5	QPSK	12	13	23.49	23.53	23.50	24.00	
5	QPSK	25	0	23.45	23.47	23.45		
5	16QAM	1	0	23.83	23.93	23.70		
5	16QAM	1	12	23.86	23.92	23.74		
5	16QAM	1	24	23.85	23.92	23.67		
5	16QAM	12	0	22.50	22.64	22.58	23.00	
5	16QAM	12	7	22.59	22.65	22.49		
5	16QAM	12	13	22.45	22.48	22.54		
5	16QAM	25	0	22.47	22.59	22.47		
5	64QAM	1	0	22.81	22.85	22.70		
5	64QAM	1	12	22.59	22.63	22.69	23.00	
5	64QAM	1	24	22.56	22.54	22.70		
5	64QAM	12	0	21.58	21.62	21.58		
5	64QAM	12	7	21.55	21.63	21.53		
5	64QAM	12	13	21.48	21.62	21.54		
5	64QAM	25	0	21.51	21.52	21.54	Tune-up limit (dBm)	
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5	25.00	
3	QPSK	1	0	24.24	24.38	24.39		
3	QPSK	1	8	24.39	24.47	24.48		
3	QPSK	1	14	24.30	24.27	24.29		
3	QPSK	8	0	23.39	23.52	23.39	24.00	
3	QPSK	8	4	23.42	23.56	23.50		
3	QPSK	8	7	23.37	23.40	23.42		
3	QPSK	15	0	23.38	23.40	23.50		
3	16QAM	1	0	23.70	23.51	23.52		
3	16QAM	1	8	23.77	23.74	23.79	24.00	
3	16QAM	1	14	23.84	23.38	23.51		
3	16QAM	8	0	22.50	22.48	22.54		
3	16QAM	8	4	22.46	22.62	22.62		
3	16QAM	8	7	22.28	22.54	22.39		
3	16QAM	15	0	22.56	22.40	22.51	23.00	
3	64QAM	1	0	22.66	22.74	22.79		
3	64QAM	1	8	22.84	22.77	22.81		
3	64QAM	1	14	22.37	22.45	22.48		
3	64QAM	8	0	21.44	21.51	21.50		
3	64QAM	8	4	21.59	21.56	21.53	22.00	
3	64QAM	8	7	21.38	21.49	21.57		
3	64QAM	15	0	21.49	21.50	21.49		
Channel				20407	20525	20643	Tune-up limit (dBm)	
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	24.28	24.32	24.29	25.00	
1.4	QPSK	1	3	24.27	24.33	24.30		
1.4	QPSK	1	5	24.16	24.25	24.20		
1.4	QPSK	3	0	24.29	24.19	24.32		
1.4	QPSK	3	1	24.30	24.28	24.44		
1.4	QPSK	3	3	24.19	24.36	24.34	24.00	
1.4	QPSK	6	0	23.28	23.34	23.42		
1.4	16QAM	1	0	23.51	23.76	23.68		
1.4	16QAM	1	3	23.72	23.97	23.54		
1.4	16QAM	1	5	23.51	23.85	23.52		
1.4	16QAM	3	0	23.43	23.38	23.46	24.00	
1.4	16QAM	3	1	23.44	23.38	23.44		
1.4	16QAM	3	3	23.18	23.31	23.20		
1.4	16QAM	6	0	22.39	22.43	22.40		
1.4	64QAM	1	0	22.37	22.45	22.50	23.00	
1.4	64QAM	1	3	22.72	22.79	22.67		
1.4	64QAM	1	5	22.33	22.33	22.39		
1.4	64QAM	3	0	22.40	22.19	22.48		
1.4	64QAM	3	1	22.30	22.49	22.31		
1.4	64QAM	3	3	22.49	22.52	22.58	23.00	
1.4	64QAM	6	0	21.38	21.36	21.41		

LTE Band 7 (Ant.2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	25.00
20	QPSK	1	0	24.22	24.25	24.21	
20	QPSK	1	49	24.12	24.20	24.06	
20	QPSK	1	99	24.06	24.08	24.13	
20	QPSK	50	0	23.10	23.38	23.19	
20	QPSK	50	24	23.24	23.35	23.18	24.00
20	QPSK	50	50	23.28	23.30	23.19	
20	QPSK	100	0	23.24	23.26	23.20	
20	16QAM	1	0	23.25	23.53	23.55	
20	16QAM	1	49	23.84	23.69	23.39	
20	16QAM	1	99	23.73	23.47	23.32	24.00
20	16QAM	50	0	22.06	22.18	22.11	
20	16QAM	50	24	22.25	22.31	22.27	
20	16QAM	50	50	22.23	22.37	22.19	
20	16QAM	100	0	22.28	22.29	22.22	
20	64QAM	1	0	21.97	22.43	22.11	23.00
20	64QAM	1	49	22.60	22.55	22.39	
20	64QAM	1	99	22.51	22.65	22.43	
20	64QAM	50	0	21.20	21.19	21.12	
20	64QAM	50	24	21.37	21.35	21.25	
20	64QAM	50	50	21.30	21.28	21.28	22.00
20	64QAM	100	0	21.27	21.36	21.25	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	24.10	24.13	24.04	25.00
15	QPSK	1	37	24.14	24.17	24.14	
15	QPSK	1	74	24.22	24.12	24.17	
15	QPSK	36	0	23.16	23.23	23.13	
15	QPSK	36	20	23.30	23.25	23.23	
15	QPSK	36	39	23.24	23.31	23.27	24.00
15	QPSK	75	0	23.27	23.19	23.23	
15	16QAM	1	0	23.26	23.77	23.63	
15	16QAM	1	37	23.83	23.38	23.58	
15	16QAM	1	74	23.43	23.33	23.37	
15	16QAM	36	0	22.30	22.11	21.98	23.00
15	16QAM	36	20	22.22	22.27	22.16	
15	16QAM	36	39	22.21	22.27	22.21	
15	16QAM	75	0	22.31	22.29	22.25	
15	64QAM	1	0	22.22	22.47	22.34	
15	64QAM	1	37	22.05	22.49	22.40	23.00
15	64QAM	1	74	22.65	22.59	22.52	
15	64QAM	36	0	21.23	21.29	21.15	
15	64QAM	36	20	21.30	21.25	21.13	
15	64QAM	36	39	21.33	21.29	21.31	
15	64QAM	75	0	21.24	21.29	21.27	22.00
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)
10	QPSK	1	0	24.00	24.18	24.00	
10	QPSK	1	25	24.07	24.06	23.97	25.00
10	QPSK	1	49	24.03	24.19	24.23	
10	QPSK	25	0	23.25	23.27	23.21	
10	QPSK	25	12	23.29	23.32	23.30	
10	QPSK	25	25	23.32	23.25	23.24	
10	QPSK	50	0	23.24	23.26	23.25	24.00
10	16QAM	1	0	23.37	23.73	23.47	
10	16QAM	1	25	23.10	23.62	23.08	
10	16QAM	1	49	23.65	23.59	23.58	
10	16QAM	25	0	22.36	22.20	22.12	
10	16QAM	25	12	22.26	22.28	22.24	23.00
10	16QAM	25	25	22.39	22.08	22.23	
10	16QAM	50	0	22.31	22.38	22.23	
10	64QAM	1	0	22.26	22.40	22.28	
10	64QAM	1	25	22.22	22.77	22.58	
10	64QAM	1	49	22.53	22.15	22.34	22.00
10	64QAM	25	0	21.32	21.19	21.18	
10	64QAM	25	12	21.32	21.29	21.31	
10	64QAM	25	25	21.19	21.29	21.23	
10	64QAM	50	0	21.26	21.34	21.28	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	24.01	24.12	24.02	25.00
5	QPSK	1	12	24.11	24.03	24.13	
5	QPSK	1	24	24.07	24.12	24.17	
5	QPSK	12	0	23.29	23.22	23.11	
5	QPSK	12	7	23.19	23.29	23.22	
5	QPSK	12	13	23.22	23.31	23.22	24.00
5	QPSK	25	0	23.22	23.22	23.18	
5	16QAM	1	0	23.45	23.36	23.51	
5	16QAM	1	12	23.03	23.62	23.29	
5	16QAM	1	24	23.26	23.35	23.45	
5	16QAM	12	0	22.22	22.35	22.20	23.00
5	16QAM	12	7	22.20	22.36	22.24	
5	16QAM	12	13	22.26	22.29	22.27	
5	16QAM	25	0	22.27	22.34	22.22	
5	64QAM	1	0	22.27	22.29	22.28	
5	64QAM	1	12	22.34	22.08	22.52	23.00
5	64QAM	1	24	22.41	22.27	22.06	
5	64QAM	12	0	21.36	21.32	21.35	
5	64QAM	12	7	21.27	21.26	21.27	
5	64QAM	12	13	21.25	21.24	21.40	
5	64QAM	25	0	21.24	21.30	21.13	22.00
Channel				20775	21100	21425	

LTE Band 7 (Ant.4)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.08	23.18	23.01	23.50	
20	QPSK	1	49	22.67	22.87	22.81		
20	QPSK	1	99	22.89	22.88	22.94		
20	QPSK	50	0	22.03	22.05	22.02		
20	QPSK	50	24	22.04	22.00	22.01	23.50	
20	QPSK	50	50	21.98	22.10	22.03		
20	QPSK	100	0	21.98	22.00	21.97		
20	16QAM	1	0	21.76	22.01	22.18		
20	16QAM	1	49	21.96	22.44	22.12	23.50	
20	16QAM	1	99	22.38	22.39	22.37		
20	16QAM	50	0	20.92	20.93	21.00		
20	16QAM	50	24	21.03	20.99	21.02		
20	16QAM	50	50	21.10	21.04	21.16	23.50	
20	16QAM	100	0	21.00	21.00	21.05		
20	64QAM	1	0	21.01	20.97	20.87		
20	64QAM	1	49	20.94	20.98	21.32		
20	64QAM	1	99	21.05	21.23	21.10	23.50	
20	64QAM	50	0	19.90	19.97	20.01		
20	64QAM	50	24	20.00	20.09	20.10		
20	64QAM	50	50	20.11	20.07	19.96		
20	64QAM	100	0	19.97	20.04	20.04		
Channel				20825	21100	21375	Tune-up limit (dBm)	
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.81	22.81	22.86		
15	QPSK	1	37	22.85	22.85	22.86	23.50	
15	QPSK	1	74	22.94	22.90	22.96		
15	QPSK	36	0	21.99	21.95	21.91		
15	QPSK	36	20	22.02	22.09	22.06		
15	QPSK	36	39	22.03	22.00	22.04	23.50	
15	QPSK	75	0	22.01	22.01	22.07		
15	16QAM	1	0	22.13	22.15	21.87		
15	16QAM	1	37	22.17	22.44	22.13		
15	16QAM	1	74	22.08	22.58	22.22	23.50	
15	16QAM	36	0	21.00	20.87	20.91		
15	16QAM	36	20	21.05	21.02	21.05		
15	16QAM	36	39	20.97	21.04	21.01		
15	16QAM	75	0	21.02	21.08	20.99	23.50	
15	64QAM	1	0	21.05	21.23	21.07		
15	64QAM	1	37	21.03	21.04	21.11		
15	64QAM	1	74	20.98	21.15	21.09		
15	64QAM	36	0	20.02	19.99	20.03	23.50	
15	64QAM	36	20	20.00	20.05	20.01		
15	64QAM	36	39	20.14	20.03	20.09		
15	64QAM	75	0	20.07	19.96	19.96		
Channel				20800	21100	21400	Tune-up limit (dBm)	
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.67	22.87	22.78		
10	QPSK	1	25	22.84	23.00	22.82	23.50	
10	QPSK	1	49	22.89	22.81	22.84		
10	QPSK	25	0	21.92	21.91	21.86		
10	QPSK	25	12	21.97	22.03	22.09		
10	QPSK	25	25	21.99	22.08	21.98	23.50	
10	QPSK	50	0	22.06	22.08	22.08		
10	16QAM	1	0	22.03	22.34	22.12		
10	16QAM	1	25	22.09	22.17	22.18		
10	16QAM	1	49	22.21	21.93	22.35	23.50	
10	16QAM	25	0	20.85	20.96	20.81		
10	16QAM	25	12	20.97	21.05	21.11		
10	16QAM	25	25	21.11	20.90	20.92		
10	16QAM	50	0	21.00	20.98	21.15	23.50	
10	64QAM	1	0	20.86	21.13	20.87		
10	64QAM	1	25	21.28	21.14	21.27		
10	64QAM	1	49	21.42	20.96	21.31		
10	64QAM	25	0	19.97	19.98	19.97	23.50	
10	64QAM	25	12	20.01	20.15	20.15		
10	64QAM	25	25	19.96	20.04	20.06		
10	64QAM	50	0	20.08	20.05	19.95		
Channel				20775	21100	21425	Tune-up limit (dBm)	
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.87	22.85	22.81		
5	QPSK	1	12	22.84	22.82	23.07	23.50	
5	QPSK	1	24	22.86	22.90	23.02		
5	QPSK	12	0	21.93	22.06	21.99		
5	QPSK	12	7	21.94	22.03	22.01		
5	QPSK	12	13	21.97	22.06	21.98	23.50	
5	QPSK	25	0	22.00	22.03	22.06		
5	16QAM	1	0	22.32	22.14	21.83		
5	16QAM	1	12	22.29	22.36	22.13		
5	16QAM	1	24	22.05	22.10	22.16	23.50	
5	16QAM	12	0	20.93	21.08	21.08		
5	16QAM	12	7	20.91	21.09	21.09		
5	16QAM	12	13	20.99	20.99	21.08		
5	16QAM	25	0	21.06	21.04	21.02	23.50	
5	64QAM	1	0	21.09	21.13	21.25		
5	64QAM	1	12	21.22	21.27	21.31		
5	64QAM	1	24	20.78	21.33	21.41		
5	64QAM	12	0	20.05	20.03	20.04	23.50	
5	64QAM	12	7	20.10	20.03	20.08		
5	64QAM	12	13	20.03	20.19	20.05		
5	64QAM	25	0	19.95	20.07	20.03		

LTE Band 12 (Ant.1)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.42	24.69	24.50	25.00	
10	QPSK	1	25	24.54	24.43	24.32		
10	QPSK	1	49	24.49	24.54	24.41		
10	QPSK	25	0	23.65	23.69	23.61		
10	QPSK	25	12	23.64	23.59	23.80	24.00	
10	QPSK	25	25	23.58	23.59	23.65		
10	QPSK	50	0	23.78	23.61	23.76		
10	16QAM	1	0	23.73	23.69	23.75	24.50	
10	16QAM	1	25	23.69	24.17	24.13		
10	16QAM	1	49	23.77	23.73	23.80		
10	16QAM	25	0	22.70	22.78	22.72	23.00	
10	16QAM	25	12	22.70	22.57	22.80		
10	16QAM	25	25	22.64	22.62	22.77		
10	16QAM	50	0	22.66	22.63	22.68	23.00	
10	64QAM	1	0	22.76	22.78	22.88		
10	64QAM	1	25	23.02	22.47	22.45		
10	64QAM	1	49	22.92	22.76	23.01	22.00	
10	64QAM	25	0	21.54	21.57	21.65		
10	64QAM	25	12	21.71	21.55	21.74		
10	64QAM	25	25	21.69	21.86	21.49		
10	64QAM	50	0	21.67	21.61	21.50		
Channel				23035	23095	23155	Tune-up limit (dBm)	
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	24.63	24.53	24.42	25.00	
5	QPSK	1	12	24.49	24.66	24.59		
5	QPSK	1	24	24.44	24.52	24.62		
5	QPSK	12	0	23.68	23.67	23.67		
5	QPSK	12	7	23.71	23.64	23.65	24.00	
5	QPSK	12	13	23.64	23.64	23.56		
5	QPSK	25	0	23.69	23.54	23.56		
5	16QAM	1	0	23.71	23.50	24.03	24.50	
5	16QAM	1	12	23.71	23.76	24.03		
5	16QAM	1	24	24.10	24.14	23.94		
5	16QAM	12	0	22.66	22.62	22.74	23.00	
5	16QAM	12	7	22.73	22.77	22.54		
5	16QAM	12	13	22.65	22.69	22.71		
5	16QAM	25	0	22.66	22.60	22.58	23.00	
5	64QAM	1	0	22.67	22.89	22.18		
5	64QAM	1	12	22.76	22.89	22.46		
5	64QAM	1	24	22.54	22.93	22.51	22.00	
5	64QAM	12	0	21.54	21.81	21.18		
5	64QAM	12	7	21.63	21.80	21.23		
5	64QAM	12	13	21.81	21.72	21.42		
5	64QAM	25	0	21.76	21.56	21.37		
Channel				23025	23095	23165	Tune-up limit (dBm)	
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.55	24.53	24.52	25.00	
3	QPSK	1	8	24.58	24.57	24.60		
3	QPSK	1	14	24.54	24.49	24.53		
3	QPSK	8	0	23.62	23.58	23.60		
3	QPSK	8	4	23.64	23.68	23.71	24.00	
3	QPSK	8	7	23.59	23.65	23.63		
3	QPSK	15	0	23.70	23.57	23.58		
3	16QAM	1	0	23.75	23.55	23.64	24.50	
3	16QAM	1	8	23.71	24.20	24.17		
3	16QAM	1	14	24.06	23.79	23.61		
3	16QAM	8	0	22.66	22.73	22.79	23.00	
3	16QAM	8	4	22.73	22.84	22.82		
3	16QAM	8	7	22.74	22.58	22.62		
3	16QAM	15	0	22.74	22.52	22.63	22.00	
3	64QAM	1	0	22.45	22.69	22.30		
3	64QAM	1	8	23.01	23.09	22.35		
3	64QAM	1	14	22.80	22.92	22.32	23.00	
3	64QAM	8	0	21.68	21.67	21.27		
3	64QAM	8	4	21.48	21.65	21.34		
3	64QAM	8	7	21.64	21.86	21.72	22.00	
3	64QAM	15	0	21.64	21.61	21.38		
Channel				23017	23095	23173		Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.51	24.41	24.42	25.00	
1.4	QPSK	1	3	24.44	24.51	24.53		
1.4	QPSK	1	5	24.40	24.46	24.40		
1.4	QPSK	3	0	24.49	24.37	24.49		
1.4	QPSK	3	1	24.51	24.51	24.56	24.00	
1.4	QPSK	3	3	24.46	24.45	24.45		
1.4	QPSK	6	0	23.55	23.56	23.61		
1.4	16QAM	1	0	23.49	24.00	23.63	24.50	
1.4	16QAM	1	3	23.77	23.56	23.91		
1.4	16QAM	1	5	23.65	23.84	23.91		
1.4	16QAM	3	0	23.62	23.64	23.58	23.00	
1.4	16QAM	3	1	23.69	23.69	23.81		
1.4	16QAM	3	3	23.56	23.63	23.64		
1.4	16QAM	6	0	22.80	22.58	22.64	23.00	
1.4	64QAM	1	0	22.56	22.75	22.56		
1.4	64QAM	1	3	22.76	22.58	22.72		
1.4	64QAM	1	5	22.18	22.67	22.84	23.00	
1.4	64QAM	3	0	22.77	22.39	22.72		
1.4	64QAM	3	1	22.64	22.63	22.68		
1.4	64QAM	3	3	22.72	22.67	22.76	22.00	
1.4	64QAM	6	0	21.65	21.59	21.57		

LTE Band 17 (Ant.1)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	24.32	24.62	24.32	25.00	
10	QPSK	1	25	24.35	24.33	24.40		
10	QPSK	1	49	24.59	24.36	24.52		
10	QPSK	25	0	23.46	23.66	23.38		
10	QPSK	25	12	23.61	23.57	23.48	24.00	
10	QPSK	25	25	23.60	23.59	23.56		
10	QPSK	50	0	23.40	23.45	23.48		
10	16QAM	1	0	23.89	23.73	23.40		
10	16QAM	1	25	23.89	23.83	23.98	24.50	
10	16QAM	1	49	24.04	24.07	23.45		
10	16QAM	25	0	22.48	22.54	22.32		
10	16QAM	25	12	22.48	22.50	22.58		
10	16QAM	25	25	22.54	22.50	22.62	23.00	
10	16QAM	50	0	22.40	22.42	22.50		
10	64QAM	1	0	22.77	22.33	22.66		
10	64QAM	1	25	22.30	22.80	22.66		
10	64QAM	1	49	22.51	22.85	22.73	22.00	
10	64QAM	25	0	21.50	21.47	21.40		
10	64QAM	25	12	21.55	21.57	21.44		
10	64QAM	25	25	21.54	21.65	21.64		
10	64QAM	50	0	21.49	21.37	21.45		
Channel				23755	23790	23825	Tune-up limit (dBm)	
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	24.44	24.35	24.43	25.00	
5	QPSK	1	12	24.58	24.37	24.32		
5	QPSK	1	24	24.45	24.51	24.47		
5	QPSK	12	0	23.53	23.53	23.49		
5	QPSK	12	7	23.57	23.46	23.57	24.00	
5	QPSK	12	13	23.60	23.51	23.60		
5	QPSK	25	0	23.60	23.46	23.50		
5	16QAM	1	0	23.94	23.50	23.89		
5	16QAM	1	12	24.01	23.94	23.90	24.50	
5	16QAM	1	24	23.86	24.00	23.72		
5	16QAM	12	0	22.46	22.45	22.37		
5	16QAM	12	7	22.59	22.50	22.62		
5	16QAM	12	13	22.67	22.54	22.56	23.00	
5	16QAM	25	0	22.51	22.54	22.53		
5	64QAM	1	0	22.71	22.86	22.71		
5	64QAM	1	12	22.67	22.79	22.22		
5	64QAM	1	24	22.96	22.78	22.08	22.00	
5	64QAM	12	0	21.69	21.50	21.43		
5	64QAM	12	7	21.67	21.70	21.43		
5	64QAM	12	13	21.63	21.59	21.62		
5	64QAM	25	0	21.54	21.41	21.51		

LTE Band 18 (Ant.1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925			
Frequency (MHz)				822.5			
15	QPSK	1	0	24.29			25.00
15	QPSK	1	37	24.26			
15	QPSK	1	74	24.22			
15	QPSK	36	0	23.45			
15	QPSK	36	20	23.32			24.00
15	QPSK	36	39	23.37			
15	QPSK	75	0	23.41			
15	16QAM	1	0	23.70			
15	16QAM	1	37	23.83			24.00
15	16QAM	1	74	23.41			
15	16QAM	36	0	22.48			
15	16QAM	36	20	22.38			
15	16QAM	36	39	22.37			23.00
15	16QAM	75	0	22.36			
15	64QAM	1	0	22.51			
15	64QAM	1	25	22.58			
15	64QAM	1	49	22.53			23.00
15	64QAM	25	0	21.48			
15	64QAM	25	12	21.35			
15	64QAM	25	25	21.45			
15	64QAM	50	0	21.34			22.00
Channel				23900	23925	23950	
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	24.20	24.23	24.23	
10	QPSK	1	25	24.24	24.22	24.26	
10	QPSK	1	49	24.25	24.22	24.21	
10	QPSK	25	0	23.38	23.47	23.48	
10	QPSK	25	12	23.40	23.39	23.51	24.00
10	QPSK	25	25	23.42	23.50	23.48	
10	QPSK	50	0	23.41	23.42	23.48	
10	16QAM	1	0	23.54	23.21	23.96	
10	16QAM	1	25	23.58	23.54	23.66	24.00
10	16QAM	1	49	23.60	23.44	23.69	
10	16QAM	25	0	22.47	22.46	22.41	
10	16QAM	25	12	22.48	22.37	22.59	
10	16QAM	25	25	22.56	22.53	22.57	23.00
10	16QAM	50	0	22.51	22.30	22.42	
10	64QAM	1	0	22.66	22.39	22.71	
10	64QAM	1	25	22.29	22.66	22.78	
10	64QAM	1	49	22.23	22.11	22.65	23.00
10	64QAM	25	0	21.42	21.41	21.57	
10	64QAM	25	12	21.57	21.41	21.53	
10	64QAM	25	25	21.49	21.53	21.58	
10	64QAM	50	0	21.47	21.41	21.55	22.00
Channel				23875	23925	23975	
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	24.20	24.25	24.23	
5	QPSK	1	12	24.24	24.25	24.26	
5	QPSK	1	24	24.25	24.24	24.21	
5	QPSK	12	0	23.38	23.49	23.48	
5	QPSK	12	7	23.40	23.37	23.51	24.00
5	QPSK	12	13	23.42	23.46	23.48	
5	QPSK	25	0	23.41	23.43	23.48	
5	16QAM	1	0	23.54	23.54	23.96	
5	16QAM	1	12	23.58	23.84	23.66	24.00
5	16QAM	1	24	23.60	23.45	23.69	
5	16QAM	12	0	22.47	22.51	22.41	
5	16QAM	12	7	22.48	22.50	22.59	
5	16QAM	12	13	22.56	22.52	22.57	23.00
5	16QAM	25	0	22.51	22.50	22.42	
5	64QAM	1	0	22.66	22.83	22.71	
5	64QAM	1	12	22.29	22.74	22.78	
5	64QAM	1	24	22.23	22.67	22.65	23.00
5	64QAM	12	0	21.42	21.57	21.57	
5	64QAM	12	7	21.57	21.43	21.53	
5	64QAM	12	13	21.49	21.47	21.58	
5	64QAM	25	0	21.47	21.48	21.55	22.00

LTE Band 19 (Ant.1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			
Frequency (MHz)				837.5			
15	QPSK	1	0	24.39			25.00
15	QPSK	1	37	24.35			
15	QPSK	1	74	24.23			
15	QPSK	36	0	23.52			
15	QPSK	36	20	23.41			24.00
15	QPSK	36	39	23.49			
15	QPSK	75	0	23.49			
15	16QAM	1	0	23.85			
15	16QAM	1	37	23.87			24.00
15	16QAM	1	74	23.76			
15	16QAM	36	0	22.46			
15	16QAM	36	20	22.46			
15	16QAM	36	39	22.37			23.00
15	16QAM	75	0	22.46			
15	64QAM	1	0	22.48			
15	64QAM	1	25	22.59			
15	64QAM	1	49	22.43			23.00
15	64QAM	25	0	21.61			
15	64QAM	25	12	21.44			
15	64QAM	25	25	21.42			
15	64QAM	50	0	21.47			22.00
Channel				24050	24075	24100	
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	24.41	24.42	24.39	
10	QPSK	1	25	24.21	24.38	24.40	
10	QPSK	1	49	24.26	24.53	24.26	
10	QPSK	25	0	23.39	23.49	23.49	
10	QPSK	25	12	23.60	23.53	23.47	24.00
10	QPSK	25	25	23.54	23.54	23.45	
10	QPSK	50	0	23.49	23.49	23.54	
10	16QAM	1	0	23.70	23.87	23.56	
10	16QAM	1	25	23.57	23.71	23.72	24.00
10	16QAM	1	49	23.97	23.96	23.59	
10	16QAM	25	0	22.35	22.42	22.53	
10	16QAM	25	12	22.49	22.53	22.50	
10	16QAM	25	25	22.44	22.59	22.53	23.00
10	16QAM	50	0	22.45	22.48	22.48	
10	64QAM	1	0	22.61	22.72	22.79	
10	64QAM	1	25	22.38	22.58	22.41	
10	64QAM	1	49	22.87	22.71	22.67	23.00
10	64QAM	25	0	21.53	21.39	21.52	
10	64QAM	25	12	21.54	21.43	21.53	
10	64QAM	25	25	21.55	21.50	21.55	
10	64QAM	50	0	21.57	21.52	21.54	22.00
Channel				24025	24075	24125	
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	24.43	24.46	24.39	
5	QPSK	1	12	24.56	24.45	24.33	
5	QPSK	1	24	24.46	24.43	24.45	
5	QPSK	12	0	23.45	23.46	23.47	
5	QPSK	12	7	23.55	23.48	23.46	24.00
5	QPSK	12	13	23.46	23.45	23.45	
5	QPSK	25	0	23.56	23.50	23.39	
5	16QAM	1	0	23.43	23.99	23.98	
5	16QAM	1	12	23.37	23.99	23.58	24.00
5	16QAM	1	24	23.49	23.41	23.56	
5	16QAM	12	0	22.55	22.58	22.48	
5	16QAM	12	7	22.48	22.54	22.48	
5	16QAM	12	13	22.47	22.53	22.52	23.00
5	16QAM	25	0	22.57	22.52	22.53	
5	64QAM	1	0	22.79	22.82	22.53	
5	64QAM	1	12	22.66	22.78	22.79	
5	64QAM	1	24	22.65	22.37	22.75	23.00
5	64QAM	12	0	21.43	21.49	21.54	
5	64QAM	12	7	21.58	21.51	21.61	
5	64QAM	12	13	21.59	21.63	21.48	
5	64QAM	25	0	21.53	21.43	21.50	22.00

LTE Band 26 (Ant.1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	25.00
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.35	24.49	24.39	25.00
15	QPSK	1	37	24.42	24.39	24.48	
15	QPSK	1	74	24.36	24.41	24.37	
15	QPSK	36	0	23.55	23.67	23.64	
15	QPSK	36	20	23.59	23.65	23.66	24.00
15	QPSK	36	39	23.45	23.51	23.58	
15	QPSK	75	0	23.55	23.51	23.65	
15	16QAM	1	0	23.68	23.74	23.91	
15	16QAM	1	37	23.67	23.75	23.42	24.00
15	16QAM	1	74	23.79	23.92	23.70	
15	16QAM	36	0	22.59	22.64	22.56	
15	16QAM	36	20	22.62	22.60	22.60	
15	16QAM	36	39	22.47	22.67	22.66	23.00
15	16QAM	75	0	22.57	22.58	22.65	
15	64QAM	1	0	22.56	22.40	22.81	
15	64QAM	1	37	22.84	22.78	22.86	
15	64QAM	1	74	22.37	22.71	22.48	23.00
15	64QAM	36	0	21.57	21.67	21.69	
15	64QAM	36	20	21.65	21.46	21.65	
15	64QAM	36	39	21.49	21.60	21.59	
15	64QAM	75	0	21.63	21.64	21.60	22.00
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	25.00
10	QPSK	1	0	24.41	24.35	24.40	
10	QPSK	1	25	24.27	24.25	24.46	
10	QPSK	1	49	24.16	24.25	24.23	
10	QPSK	25	0	23.41	23.45	23.47	24.00
10	QPSK	25	12	23.41	23.48	23.51	
10	QPSK	25	25	23.45	23.43	23.35	
10	QPSK	50	0	23.37	23.38	23.52	
10	16QAM	1	0	23.88	23.61	23.95	24.00
10	16QAM	1	25	23.72	23.98	23.54	
10	16QAM	1	49	23.93	23.66	23.66	
10	16QAM	25	0	22.34	22.40	22.41	
10	16QAM	25	12	22.31	22.39	22.48	23.00
10	16QAM	25	25	22.45	22.49	22.27	
10	16QAM	50	0	22.39	22.44	22.41	
10	64QAM	1	0	22.92	22.71	22.70	
10	64QAM	1	25	22.80	22.58	22.41	23.00
10	64QAM	1	49	22.79	22.30	22.49	
10	64QAM	25	0	21.40	21.51	21.50	
10	64QAM	25	12	21.38	21.44	21.54	
10	64QAM	25	25	21.43	21.43	21.35	22.00
10	64QAM	50	0	21.39	21.45	21.40	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	25.00
5	QPSK	1	0	24.33	24.39	24.42	
5	QPSK	1	12	24.33	24.39	24.41	
5	QPSK	1	24	24.32	24.40	24.40	
5	QPSK	12	0	23.39	23.46	23.40	24.00
5	QPSK	12	7	23.42	23.35	23.34	
5	QPSK	12	13	23.34	23.45	23.39	
5	QPSK	25	0	24.28	24.39	24.33	
5	16QAM	1	0	23.92	23.41	23.69	24.00
5	16QAM	1	12	23.62	23.89	23.70	
5	16QAM	1	24	23.55	23.73	23.71	
5	16QAM	12	0	22.46	22.38	22.44	
5	16QAM	12	7	22.47	22.50	22.52	23.00
5	16QAM	12	13	22.38	22.42	22.46	
5	16QAM	25	0	23.51	23.54	23.46	
5	64QAM	1	0	22.36	22.71	22.48	
5	64QAM	1	12	22.64	22.79	22.73	23.00
5	64QAM	1	24	22.72	22.72	22.73	
5	64QAM	12	0	21.42	21.42	21.42	
5	64QAM	12	7	21.41	21.52	21.49	
5	64QAM	12	13	21.42	21.51	21.42	22.00
5	64QAM	25	0	22.53	22.51	22.52	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	25.00
3	QPSK	1	0	24.37	24.37	24.31	
3	QPSK	1	8	24.43	24.44	24.45	
3	QPSK	1	14	24.26	24.26	24.33	
3	QPSK	8	0	23.45	23.45	23.41	24.00
3	QPSK	8	4	23.52	23.52	23.52	
3	QPSK	8	7	23.41	23.41	23.41	
3	QPSK	15	0	23.42	23.42	23.43	
3	16QAM	1	0	23.47	23.47	23.46	24.00
3	16QAM	1	8	23.73	23.73	23.62	
3	16QAM	1	14	23.47	23.47	23.57	
3	16QAM	8	0	22.53	22.53	22.38	
3	16QAM	8	4	22.49	22.49	22.47	23.00
3	16QAM	8	7	22.48	22.48	22.52	
3	16QAM	15	0	22.33	22.33	22.45	
3	64QAM	1	0	22.52	22.52	22.65	23.00
3	64QAM	1	8	22.85	22.85	22.52	
3	64QAM	1	14	22.83	22.83	22.68	
3	64QAM	8	0	21.54	21.54	21.51	
3	64QAM	8	4	21.62	21.62	21.41	22.00
3	64QAM	8	7	21.50	21.50	21.43	
3	64QAM	15	0	21.37	21.37	21.33	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	25.00
1.4	QPSK	1	0	24.28	24.30	24.31	
1.4	QPSK	1	3	24.27	24.35	24.29	
1.4	QPSK	1	5	24.16	24.21	24.23	
1.4	QPSK	3	0	24.31	24.22	24.31	

1.4	QPSK	3	1	24.29	24.36	24.38	
1.4	QPSK	3	3	24.21	24.28	24.30	
1.4	QPSK	6	0	23.29	23.34	23.43	24.00
1.4	16QAM	1	0	23.42	23.88	23.66	
1.4	16QAM	1	3	23.55	23.87	23.49	
1.4	16QAM	1	5	23.77	23.48	23.76	
1.4	16QAM	3	0	23.20	23.45	23.40	
1.4	16QAM	3	1	23.37	23.41	23.48	
1.4	16QAM	3	3	23.41	23.44	23.34	
1.4	16QAM	6	0	22.33	22.43	22.50	23.00
1.4	16QAM	1	0	22.62	22.65	22.59	
1.4	16QAM	1	3	22.63	22.64	22.33	
1.4	16QAM	1	5	22.31	22.63	22.38	
1.4	16QAM	3	0	22.50	22.50	22.60	
1.4	16QAM	3	1	22.45	22.61	22.51	
1.4	16QAM	3	3	22.60	22.61	22.57	
1.4	16QAM	6	0	21.34	21.34	21.38	22.00

LTE Band 38 (Ant.2)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	24.05	24.17	24.10	25.00	
20	QPSK	1	49	24.16	24.04	24.13		
20	QPSK	1	99	24.07	24.04	24.08		
20	QPSK	50	0	23.34	23.48	23.30		
20	QPSK	50	24	23.39	23.45	23.31	24.00	
20	QPSK	50	50	23.40	23.33	23.34		
20	QPSK	100	0	23.42	23.33	23.26		
20	16QAM	1	0	23.56	23.41	23.43		
20	16QAM	1	49	23.45	23.35	23.48	24.00	
20	16QAM	1	99	23.46	23.38	23.46		
20	16QAM	50	0	22.25	22.38	22.33		
20	16QAM	50	24	22.38	22.36	22.28		
20	16QAM	50	50	22.45	22.42	22.30	23.00	
20	16QAM	100	0	22.37	22.42	22.34		
20	64QAM	1	0	22.29	22.25	22.22		
20	64QAM	1	49	22.32	22.25	22.38		
20	64QAM	1	99	22.32	22.35	22.39	23.00	
20	64QAM	50	0	21.39	21.37	21.34		
20	64QAM	50	24	21.44	21.38	21.35		
20	64QAM	50	50	21.43	21.35	21.44		
20	64QAM	100	0	21.45	21.37	21.26	22.00	
Channel				37825	38000	38175		Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	24.08	24.16	24.10	25.00	
15	QPSK	1	37	24.16	24.12	24.17		
15	QPSK	1	74	24.06	24.02	24.04		
15	QPSK	36	0	23.37	23.31	23.31		
15	QPSK	36	20	23.40	23.35	23.37	24.00	
15	QPSK	36	39	23.42	23.39	23.32		
15	QPSK	75	0	23.44	23.42	23.35		
15	16QAM	1	0	23.44	23.41	23.39		
15	16QAM	1	37	23.35	23.39	23.44	24.00	
15	16QAM	1	74	23.52	23.46	23.49		
15	16QAM	36	0	22.35	22.29	22.34		
15	16QAM	36	20	22.28	22.28	22.29		
15	16QAM	36	39	22.33	22.29	22.28	23.00	
15	16QAM	75	0	22.39	22.35	22.32		
15	64QAM	1	0	22.44	22.25	22.20		
15	64QAM	1	37	22.33	22.35	22.28		
15	64QAM	1	74	22.30	22.23	22.33	23.00	
15	64QAM	36	0	21.40	21.30	21.25		
15	64QAM	36	20	21.33	21.42	21.31		
15	64QAM	36	39	21.43	21.31	21.37		
15	64QAM	75	0	21.41	21.39	21.34	22.00	
Channel				37800	38000	38200		Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	24.17	24.14	24.11	25.00	
10	QPSK	1	25	24.13	24.11	24.07		
10	QPSK	1	49	24.05	24.12	24.12		
10	QPSK	25	0	23.44	23.30	23.34		
10	QPSK	25	12	23.48	23.39	23.33	24.00	
10	QPSK	25	25	23.40	23.45	23.36		
10	QPSK	50	0	23.45	23.41	23.33		
10	16QAM	1	0	23.59	23.50	23.68		
10	16QAM	1	25	23.48	23.50	23.52	24.00	
10	16QAM	1	49	23.52	23.49	23.51		
10	16QAM	25	0	22.44	22.29	22.21		
10	16QAM	25	12	22.47	22.44	22.42		
10	16QAM	25	25	22.42	22.34	22.33	23.00	
10	16QAM	50	0	22.47	22.46	22.44		
10	64QAM	1	0	22.58	22.54	22.51		
10	64QAM	1	25	22.58	22.61	22.55		
10	64QAM	1	49	22.43	22.58	22.37	23.00	
10	64QAM	25	0	21.46	21.44	21.45		
10	64QAM	25	12	21.45	21.41	21.31		
10	64QAM	25	25	21.47	21.44	21.41		
10	64QAM	50	0	21.42	21.39	21.45	22.00	
Channel				37775	38000	38225		Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	24.08	24.12	24.14	25.00	
5	QPSK	1	12	24.10	24.09	24.10		
5	QPSK	1	24	24.13	24.15	24.11		
5	QPSK	12	0	23.38	23.36	23.22		
5	QPSK	12	7	23.41	23.40	23.28	24.00	
5	QPSK	12	13	23.37	23.36	23.34		
5	QPSK	25	0	23.40	23.36	23.23		
5	16QAM	1	0	23.58	23.54	23.45		
5	16QAM	1	12	23.55	23.47	23.52	24.00	
5	16QAM	1	24	23.59	23.51	23.46		
5	16QAM	12	0	22.38	22.33	22.31		
5	16QAM	12	7	22.46	22.46	22.34		
5	16QAM	12	13	22.34	22.37	22.36	23.00	
5	16QAM	25	0	22.39	22.34	22.33		
5	64QAM	1	0	22.43	22.45	22.42		
5	64QAM	1	12	22.40	22.46	22.43		
5	64QAM	1	24	22.46	22.43	22.44	23.00	
5	64QAM	12	0	21.49	21.47	21.33		
5	64QAM	12	7	21.47	21.36	21.35		
5	64QAM	12	13	21.39	21.36	21.46		
5	64QAM	25	0	21.45	21.43	21.33	22.00	

LTE Band 38 (Ant.4)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.85	23.04	22.91	23.50
20	QPSK	1	49	22.90	22.88	22.83	
20	QPSK	1	99	22.87	22.96	22.84	
20	QPSK	50	0	22.15	22.28	22.14	
20	QPSK	50	24	22.29	22.24	22.08	22.50
20	QPSK	50	50	22.22	22.22	22.16	
20	QPSK	100	0	22.25	22.22	22.15	
20	16QAM	1	0	22.22	22.29	22.20	
20	16QAM	1	49	22.37	22.25	22.29	22.50
20	16QAM	1	99	22.26	22.30	22.21	
20	16QAM	50	0	21.16	21.26	21.19	
20	16QAM	50	24	21.16	21.23	21.11	
20	16QAM	50	50	21.18	21.24	21.29	22.50
20	16QAM	100	0	21.30	21.26	21.03	
20	64QAM	1	0	21.14	21.15	21.11	
20	64QAM	1	49	21.11	21.14	21.08	
20	64QAM	1	99	21.13	21.11	21.15	21.50
20	64QAM	50	0	20.18	20.18	20.19	
20	64QAM	50	24	20.29	20.30	20.18	
20	64QAM	50	50	20.17	20.19	20.23	
20	64QAM	100	0	20.29	20.30	20.11	20.50
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.99	22.92	22.90	23.50
15	QPSK	1	37	22.95	23.03	22.95	
15	QPSK	1	74	22.91	23.02	22.87	
15	QPSK	36	0	22.09	22.11	22.16	
15	QPSK	36	20	22.23	22.27	22.10	22.50
15	QPSK	36	39	22.12	22.17	22.18	
15	QPSK	75	0	22.23	22.29	22.17	
15	16QAM	1	0	22.24	22.38	22.15	
15	16QAM	1	37	22.18	22.27	22.22	22.50
15	16QAM	1	74	22.29	22.36	22.20	
15	16QAM	36	0	21.22	21.12	21.06	
15	16QAM	36	20	21.15	21.18	21.11	
15	16QAM	36	39	21.17	21.21	21.14	22.50
15	16QAM	75	0	21.22	21.20	21.17	
15	64QAM	1	0	21.00	21.12	20.95	
15	64QAM	1	37	21.15	21.21	21.16	
15	64QAM	1	74	21.23	21.12	21.11	21.50
15	64QAM	36	0	20.19	20.15	20.12	
15	64QAM	36	20	20.21	20.19	20.22	
15	64QAM	36	39	20.18	20.24	20.15	
15	64QAM	75	0	20.26	20.18	20.18	20.50
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.02	22.99	22.95	23.50
10	QPSK	1	25	23.01	23.02	22.99	
10	QPSK	1	49	23.01	23.02	23.01	
10	QPSK	25	0	22.26	22.20	22.21	
10	QPSK	25	12	22.26	22.30	22.13	22.50
10	QPSK	25	25	22.32	22.20	22.15	
10	QPSK	50	0	22.30	22.23	22.24	
10	16QAM	1	0	22.38	22.37	22.43	
10	16QAM	1	25	22.31	22.38	22.30	22.50
10	16QAM	1	49	22.57	22.35	22.23	
10	16QAM	25	0	21.29	21.03	21.18	
10	16QAM	25	12	21.24	21.38	21.12	
10	16QAM	25	25	21.17	21.29	21.20	22.50
10	16QAM	50	0	21.32	21.23	21.22	
10	64QAM	1	0	21.33	21.35	21.36	
10	64QAM	1	25	21.23	21.22	21.25	
10	64QAM	1	49	21.10	21.41	21.23	21.50
10	64QAM	25	0	20.33	20.16	20.21	
10	64QAM	25	12	20.28	20.25	20.25	
10	64QAM	25	25	20.27	20.34	20.31	
10	64QAM	50	0	20.20	20.25	20.26	20.50
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.02	23.00	22.99	23.50
5	QPSK	1	12	23.01	22.97	22.95	
5	QPSK	1	24	23.02	23.03	22.94	
5	QPSK	12	0	22.19	22.23	22.14	
5	QPSK	12	7	22.23	22.31	22.23	22.50
5	QPSK	12	13	22.17	22.28	22.18	
5	QPSK	25	0	22.25	22.20	22.19	
5	16QAM	1	0	22.41	22.43	22.30	
5	16QAM	1	12	22.37	22.35	22.33	22.50
5	16QAM	1	24	22.44	22.43	22.29	
5	16QAM	12	0	21.32	21.26	21.26	
5	16QAM	12	7	21.31	21.30	21.17	
5	16QAM	12	13	21.27	21.27	21.19	22.50
5	16QAM	25	0	21.28	21.22	21.14	
5	64QAM	1	0	21.20	21.27	21.18	
5	64QAM	1	12	21.26	21.22	21.25	
5	64QAM	1	24	21.27	21.34	21.28	21.50
5	64QAM	12	0	20.32	20.26	20.19	
5	64QAM	12	7	20.31	20.37	20.18	
5	64QAM	12	13	20.24	20.25	20.21	
5	64QAM	25	0	20.28	20.27	20.16	20.50

LTE Band 40A (Ant.2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	24.13			25.00
10	QPSK	1	25	24.01			
10	QPSK	1	49	24.11			
10	QPSK	25	0	23.23			24.00
10	QPSK	25	12	23.20			
10	QPSK	25	25	23.22			
10	QPSK	50	0	23.30			24.00
10	16QAM	1	0	23.46			
10	16QAM	1	25	23.37			
10	16QAM	1	49	23.36			23.00
10	16QAM	25	0	22.35			
10	16QAM	25	12	22.32			
10	16QAM	25	25	22.19			23.00
10	16QAM	50	0	22.25			
10	64QAM	1	0	22.35			
10	64QAM	1	25	22.25			23.00
10	64QAM	1	49	22.29			
10	64QAM	25	0	21.29			
10	64QAM	25	12	21.33			22.00
10	64QAM	25	25	21.29			
10	64QAM	50	0	21.21			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	23.93	24.01	23.88	25.00
5	QPSK	1	12	23.83	23.80	23.79	
5	QPSK	1	24	23.78	23.84	23.82	
5	QPSK	12	0	22.97	23.04	23.05	24.00
5	QPSK	12	7	22.98	23.01	23.06	
5	QPSK	12	13	23.07	22.97	23.01	
5	QPSK	25	0	22.98	23.08	23.06	24.00
5	16QAM	1	0	23.25	23.33	23.20	
5	16QAM	1	12	23.25	23.23	23.28	
5	16QAM	1	24	23.16	23.20	23.23	23.00
5	16QAM	12	0	22.00	22.12	22.10	
5	16QAM	12	7	22.03	22.08	22.07	
5	16QAM	12	13	22.02	22.09	22.08	23.00
5	16QAM	25	0	22.05	22.09	22.07	
5	64QAM	1	0	22.13	22.18	22.07	
5	64QAM	1	12	22.05	22.03	22.10	23.00
5	64QAM	1	24	22.09	22.07	22.15	
5	64QAM	12	0	21.13	21.05	21.09	
5	64QAM	12	7	21.14	21.09	21.06	22.00
5	64QAM	12	13	21.04	21.12	21.12	
5	64QAM	25	0	21.08	21.14	21.15	

LTE Band 40A (Ant.4)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	22.91			23.50
10	QPSK	1	25	22.65			
10	QPSK	1	49	22.67			
10	QPSK	25	0	21.94			23.50
10	QPSK	25	12	21.92			
10	QPSK	25	25	21.88			
10	QPSK	50	0	21.92			23.50
10	16QAM	1	0	22.11			
10	16QAM	1	25	22.03			
10	16QAM	1	49	21.92			23.50
10	16QAM	25	0	21.08			
10	16QAM	25	12	20.96			
10	16QAM	25	25	20.93			23.50
10	16QAM	50	0	20.96			
10	64QAM	1	0	20.97			
10	64QAM	1	25	21.27			23.50
10	64QAM	1	49	20.88			
10	64QAM	25	0	20.13			
10	64QAM	25	12	20.08			23.50
10	64QAM	25	25	20.00			
10	64QAM	50	0	20.01			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.83	22.88	22.82	23.50
5	QPSK	1	12	22.75	22.65	22.71	
5	QPSK	1	24	22.70	22.75	22.80	
5	QPSK	12	0	22.03	21.93	21.88	23.50
5	QPSK	12	7	21.92	21.94	21.88	
5	QPSK	12	13	21.88	21.96	21.86	
5	QPSK	25	0	22.00	21.94	21.86	23.50
5	16QAM	1	0	22.19	22.13	22.07	
5	16QAM	1	12	22.04	22.04	22.06	
5	16QAM	1	24	22.09	22.09	22.10	23.50
5	16QAM	12	0	21.05	20.90	21.04	
5	16QAM	12	7	21.01	20.96	20.95	
5	16QAM	12	13	20.89	21.01	21.00	23.50
5	16QAM	25	0	20.91	20.95	20.91	
5	64QAM	1	0	21.13	21.13	20.99	
5	64QAM	1	12	20.99	20.99	20.98	23.50
5	64QAM	1	24	21.01	21.00	20.99	
5	64QAM	12	0	20.06	20.01	19.97	
5	64QAM	12	7	20.04	20.00	20.02	23.50
5	64QAM	12	13	19.92	19.97	19.89	
5	64QAM	25	0	19.91	19.94	19.99	

LTE Band 40B (Ant.2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	24.15			25.00
10	QPSK	1	25	24.12			
10	QPSK	1	49	24.06			
10	QPSK	25	0	23.37			
10	QPSK	25	12	23.31			24.00
10	QPSK	25	25	23.30			
10	QPSK	50	0	23.38			
10	16QAM	1	0	23.46			
10	16QAM	1	25	23.43			24.00
10	16QAM	1	49	23.46			
10	16QAM	25	0	22.31			
10	16QAM	25	12	22.35			
10	16QAM	25	25	22.35			23.00
10	16QAM	50	0	22.27			
10	64QAM	1	0	22.27			
10	64QAM	1	25	22.55			
10	64QAM	1	49	22.29			23.00
10	64QAM	25	0	21.26			
10	64QAM	25	12	21.45			
10	64QAM	25	25	21.42			
10	64QAM	50	0	21.33			22.00
Channel				39175	39200	39225	
Frequency (MHz)				2352.5	2355	2357.5	Tune-up limit (dBm)
5	QPSK	1	0	24.00	23.98	24.01	25.00
5	QPSK	1	12	23.82	23.87	23.88	
5	QPSK	1	24	24.01	23.89	24.09	
5	QPSK	12	0	23.10	23.11	23.08	
5	QPSK	12	7	22.99	23.01	23.08	24.00
5	QPSK	12	13	23.14	23.08	23.10	
5	QPSK	25	0	23.04	23.12	23.13	
5	16QAM	1	0	23.27	23.37	23.44	
5	16QAM	1	12	23.18	23.26	23.29	24.00
5	16QAM	1	24	23.27	23.35	23.33	
5	16QAM	12	0	22.17	22.27	22.18	
5	16QAM	12	7	22.04	22.18	22.13	
5	16QAM	12	13	22.12	22.14	22.19	23.00
5	16QAM	25	0	22.09	22.21	22.23	
5	64QAM	1	0	22.16	22.22	22.28	
5	64QAM	1	12	22.15	22.22	22.18	
5	64QAM	1	24	22.26	22.13	22.32	23.00
5	64QAM	12	0	21.13	21.18	21.15	
5	64QAM	12	7	21.20	21.15	21.22	
5	64QAM	12	13	21.16	21.15	21.08	
5	64QAM	25	0	21.17	21.15	21.10	22.00

LTE Band 40B (Ant.4)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	22.89			23.50
10	QPSK	1	25	22.76			
10	QPSK	1	49	22.81			
10	QPSK	25	0	22.09			23.50
10	QPSK	25	12	22.01			
10	QPSK	25	25	21.93			
10	QPSK	50	0	22.09			23.50
10	16QAM	1	0	22.15			
10	16QAM	1	25	22.16			
10	16QAM	1	49	22.08			23.50
10	16QAM	25	0	21.04			
10	16QAM	25	12	21.11			
10	16QAM	25	25	21.13			23.50
10	16QAM	50	0	21.15			
10	64QAM	1	0	20.97			
10	64QAM	1	25	21.26			23.50
10	64QAM	1	49	21.16			
10	64QAM	25	0	20.04			
10	64QAM	25	12	20.11			23.50
10	64QAM	25	25	20.08			
10	64QAM	50	0	20.05			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	22.83	22.88	22.84	23.50
5	QPSK	1	12	22.82	22.83	22.69	
5	QPSK	1	24	22.79	22.83	22.82	
5	QPSK	12	0	22.00	22.08	21.96	23.50
5	QPSK	12	7	21.89	22.12	22.07	
5	QPSK	12	13	22.06	21.98	22.01	
5	QPSK	25	0	22.01	22.06	22.07	23.50
5	16QAM	1	0	22.18	22.32	22.28	
5	16QAM	1	12	22.16	22.29	22.07	
5	16QAM	1	24	22.26	22.26	22.22	23.50
5	16QAM	12	0	21.06	21.08	21.07	
5	16QAM	12	7	21.04	21.14	21.06	
5	16QAM	12	13	21.07	21.10	20.91	23.50
5	16QAM	25	0	21.00	21.09	21.01	
5	64QAM	1	0	21.21	21.06	21.21	
5	64QAM	1	12	21.04	21.03	21.00	23.50
5	64QAM	1	24	21.14	21.12	21.11	
5	64QAM	12	0	20.08	20.08	20.05	
5	64QAM	12	7	19.98	20.05	20.11	23.50
5	64QAM	12	13	20.03	20.07	20.03	
5	64QAM	25	0	19.98	20.04	20.00	

5G NR n41 (Ant.6) for Head											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)		
Channel				513000	516000	519000	522000	525000			
Frequency (MHz)				2565	2580	2595	2610	2625			
100	DFT-s-OFDM P/2 BPSK	1	1	23.05	22.85	23.24	23.02	23.03	24		
100		1	136	22.98	22.99	23.11	23.08	22.80			
100		1	272	23.07	22.94	23.16	23.27	22.88			
100		135	1	21.86	21.89	21.99	21.93	22.06			
100		135	67	22.08	22.24	22.21	22.01	22.20			
100	DFT-s-OFDM QPSK	135	136	22.16	21.93	21.95	21.91	22.06	23		
100		270	0	21.98	21.86	21.92	21.73	22.11			
100		1	1	23.24	23.30	23.32	23.23	23.21			
100		1	136	22.92	22.92	23.07	23.18	23.00			
100		1	272	23.05	22.90	23.03	23.10	23.10			
100	DFT-s-OFDM 16QAM	135	1	22.25	22.24	22.34	22.28	22.26	24		
100		135	67	22.15	22.30	22.11	21.98	22.10			
100		135	136	22.31	22.22	22.25	22.33	22.33			
100		270	0	22.31	22.19	22.31	22.23	22.29			
100		1	1	21.04	20.84	21.19	21.05	21.15			
100	DFT-s-OFDM 64QAM	1	136	20.96	20.94	21.09	21.15	21.05	21.5		
100		1	272	20.91	20.93	21.08	21.01	21.20			
100		135	1	20.29	20.21	20.16	19.92	19.85			
100		135	67	20.15	20.24	20.09	19.96	20.02			
100		135	136	19.96	20.05	19.95	20.05	20.05			
100	DFT-s-OFDM 256QAM	270	0	19.93	20.01	20.00	19.94	19.97	21		
100		1	1	20.04	20.03	20.12	20.22	20.12			
100		1	136	19.94	20.15	20.09	20.06	20.15			
100		1	271	20.05	20.08	19.99	20.03	20.11			
100		135	1	18.96	20.03	20.14	19.96	20.00			
100	DFT-s-OFDM 256QAM	135	67	18.99	19.91	20.05	20.13	19.99	20.5		
100		135	136	19.04	19.94	20.15	20.06	20.03			
100		270	0	18.85	19.88	20.07	19.95	19.94			
100		1	1	19.17	19.01	19.03	19.01	19.08			
100		1	136	19.08	19.04	18.97	19.05	19.04			
100	DFT-s-OFDM 256QAM	1	272	19.16	19.98	19.04	19.03	19.02	19.5		
100		135	1	17.89	17.96	18.06	18.03	18.01			
100		135	67	18.05	17.92	17.95	17.95	17.98			
100		135	136	18.13	18.04	18.08	18.04	17.99			
100		270	0	17.96	17.93	18.06	18.01	17.97			
Channel				511000	515000	519000	523000	527000	Tune-up limit (dBm)		
Frequency (MHz)				2555	2575	2595	2615	2635			
80	DFT-s-OFDM P/2 BPSK	1	1	22.92	22.72	23.11	22.89	22.90	23.5		
80		1	108	22.85	22.86	22.98	22.95	22.67			
80		1	215	22.94	22.81	23.03	23.14	22.75			
80		108	1	21.73	21.76	21.86	21.80	21.93			
80		108	54	21.95	22.11	22.08	21.88	22.07			
80	DFT-s-OFDM QPSK	108	108	22.03	21.80	21.82	21.78	21.93	22.5		
80		216	0	21.85	21.73	21.79	21.60	21.98			
80		1	1	23.11	23.17	23.19	23.10	23.08			
80		1	108	22.79	22.79	22.94	23.05	22.87			
80		1	215	22.92	22.77	22.90	22.97	22.97			
80	DFT-s-OFDM 16QAM	108	1	22.12	22.11	22.21	22.15	22.13	24		
80		108	54	22.02	22.17	21.98	21.85	21.97			
80		108	108	22.18	22.09	22.12	22.20	22.20			
80		216	0	22.18	22.06	22.18	22.10	22.16			
80		1	1	20.91	20.71	21.06	20.92	21.02			
80	DFT-s-OFDM 64QAM	1	108	20.83	20.81	20.96	21.02	20.92	21.5		
80		1	215	20.78	20.80	20.95	20.88	21.07			
80		108	1	20.16	20.08	20.03	19.79	19.72			
80		108	54	20.02	20.11	19.96	19.83	19.89			
80		108	108	19.83	19.92	19.82	19.92	19.92			
80	DFT-s-OFDM 256QAM	216	0	19.80	19.88	19.87	19.81	19.84	20.5		
80		1	1	19.91	19.90	19.99	20.09	19.99			
80		1	108	19.81	20.02	19.96	19.93	20.02			
80		1	215	19.92	19.95	19.86	19.90	19.98			
80		108	1	18.83	19.80	20.01	19.83	19.87			
80	DFT-s-OFDM 256QAM	108	54	18.86	19.78	19.92	20.00	19.86	20.5		
80		108	108	18.91	19.81	20.02	19.93	19.90			
80		216	0	18.72	19.75	19.94	19.82	19.81			
80		1	1	19.04	18.88	18.90	18.88	18.95			
80		1	108	18.95	18.91	18.84	18.92	18.91			
80	DFT-s-OFDM 256QAM	1	215	19.03	18.95	18.91	18.90	18.89	19.5		
80		108	1	17.76	17.83	17.93	17.90	17.88			
80		108	54	17.92	17.79	17.82	17.82	17.85			
80		108	108	18.00	17.91	17.95	17.91	17.86			
80		216	0	17.83	17.80	17.93	17.88	17.84			
Channel				509000	514000	519000	524000	529000	Tune-up limit		
Frequency (MHz)				2545	2570	2595	2620	2645			
60	DFT-s-OFDM P/2 BPSK	1	1	22.80	22.60	22.99	22.77	22.78	23.5		
60		1	80	22.73	22.74	22.86	22.83	22.55			
60		1	160	22.82	22.69	22.91	23.02	22.63			
60		81	1	21.61	21.64	21.74	21.68	21.81			
60		81	40	21.83	21.99	21.96	21.76	21.95			
60	DFT-s-OFDM QPSK	81	81	21.91	21.68	21.70	21.66	21.81	22.5		
60		162	0	21.73	21.61	21.67	21.48	21.86			
60		1	1	22.99	23.05	23.07	22.98	22.96			
60		1	80	22.67	22.67	22.82	22.93	22.75			
60		1	160	22.80	22.65	22.78	22.85	22.85			
60	DFT-s-OFDM 16QAM	81	1	22.00	21.99	22.09	22.03	22.01	23.5		
60		81	40	21.90	22.05	21.86	21.73	21.85			
60		81	81	22.06	21.97	22.00	22.08	22.08			
60		162	0	22.06	21.94	22.06	21.98	22.04			
60		1	1	20.79	20.59	20.94	20.80	20.90			
60	DFT-s-OFDM 64QAM	1	80	20.71	20.69	20.84	20.90	20.80	21.5		
60		1	160	20.66	20.68	20.83	20.76	20.95			
60		81	1	20.04	19.96	19.91	19.67	19.60			
60		81	40	19.90	19.99	19.84	19.71	19.77			
60		81	81	19.71	19.80	19.70	19.80	19.80			
60	DFT-s-OFDM 256QAM	162	0	19.68	19.76	19.75	19.69	19.72	20.5		
60		1	1	19.79	19.78	19.87	19.97	19.87			
60		1	80	19.69	19.90	19.84	19.81	19.90			
60		1	160	19.80	19.83	19.74	19.78	19.86			
60		81	1	18.71	19.78	19.89	19.71	19.75			
60	DFT-s-OFDM 256QAM	81	40	18.74	19.66	19.80	19.88	19.74	20.5		
60		81	81	18.79	19.69	19.90	19.81	19.78			
60		162	0	18.60	19.63	19.82	19.70	19.69			
60		1	1	18.92	18.76	18.78	18.76	18.83			
60		1	80	18.83	18.79	18.72	18.80	18.79			
60	DFT-s-OFDM 256QAM	1	160	18.91	18.83	18.79	18.78	18.77	19.5		
60		81	1	17.64	17.71	17.81	17.78	17.76			
60		81	40	17.80	17.67	17.70	17.70	17.73			
60		81	81	17.88	17.79	17.83	17.79	17.74			
60		162	0	17.71	17.68	17.81	17.76	17.72			
Channel				507000	513000	519000	525000	531000	Tune-up limit (dBm)		
Frequency (MHz)				2535	2555	2595	2625	2655			
40	DFT-s-OFDM P/2 BPSK	1	1	22.66	22.46	22.85	22.63	22.64	23		
40		1	53	22.59	22.60	22.72	22.69	22.41			
40		1	106	22.68	22.55	22.77	22.88	22.49			
40		50	1	21.47	21.50	21.60	21.54	21.67			
40		50	25	21.69	21.85	21.82	21.62	21.81			
40	DFT-s-OFDM P/2 BPSK	50	50	21.77	21.54	21.56	21.52	21.67	22.5		
40		100	0	21.59	21.47	21.53	21.34	21.72			

40	DFT-s-OFDM QPSK	1	1	22.85	22.91	22.93	22.84	22.82	23.5	
40		1	53	22.53	22.53	22.68	22.79	22.61		
40		1	105	22.66	22.51	22.64	22.71	22.71		
40		50	1	21.86	21.85	21.95	21.89	21.87		
40		50	25	21.76	21.91	21.72	21.59	21.71		
40	DFT-s-OFDM 16QAM	50	50	21.92	21.83	21.86	21.94	21.94	22.5	
40		100	0	21.92	21.80	21.92	21.84	21.90		
40		1	1	20.65	20.45	20.80	20.66	20.76		
40		1	53	20.57	20.55	20.70	20.76	20.66		
40		1	105	20.52	20.52	20.69	20.62	20.81		
40	DFT-s-OFDM 64QAM	50	1	19.90	19.82	19.77	19.53	19.46	20	
40		50	25	19.76	19.85	19.70	19.57	19.63		
40		50	50	19.57	19.66	19.56	19.66	19.66		
40		100	0	19.54	19.62	19.61	19.55	19.58		
40		1	1	19.65	19.64	19.73	19.83	19.73		
40	DFT-s-OFDM 256QAM	1	53	19.55	19.76	19.70	19.67	19.76	20	
40		1	105	19.66	19.69	19.60	19.64	19.72		
40		50	1	18.57	19.64	19.75	19.57	19.61		
40		50	25	18.60	19.52	19.66	19.74	19.60		
40		50	50	18.65	19.55	19.76	19.67	19.64		
40	DFT-s-OFDM 256QAM	100	0	18.46	19.49	19.68	19.56	19.55	20.5	
40		1	1	18.78	18.62	18.64	18.62	18.69		
40		1	53	18.69	18.65	18.58	18.66	18.65		
40		1	105	18.77	18.69	18.65	18.64	18.63		
40		50	1	17.50	17.57	17.67	17.64	17.62		
40	DFT-s-OFDM 256QAM	50	25	17.66	17.53	17.56	17.56	17.59	18	
40		50	50	17.74	17.65	17.69	17.65	17.60		
40		100	0	17.57	17.54	17.67	17.62	17.58		
Channel Frequency (MHz)				505000	512000	519000	526000	533000	Tune-up limit	
				2525	2560	2595	2630	2665		
20	DFT-s-OFDM P1/2 BPSK	1	1	22.54	22.34	22.73	22.51	22.52	23	
20		1	25	22.47	22.48	22.60	22.57	22.29		
20		1	49	22.56	22.43	22.65	22.76	22.37		
20		25	1	21.35	21.38	21.48	21.42	21.55		
20		25	12	21.57	21.73	21.70	21.50	21.69		
20	DFT-s-OFDM QPSK	25	24	21.65	21.42	21.44	21.40	21.55	22	
20		50	0	21.47	21.35	21.41	21.22	21.60		
20		1	1	22.73	22.79	22.81	22.72	22.70		
20		1	25	22.41	22.41	22.56	22.67	22.49		
20		1	49	22.54	22.39	22.52	22.59	22.59		
20	DFT-s-OFDM 16QAM	25	1	21.74	21.73	21.83	21.77	21.75	22.5	
20		25	12	21.64	21.79	21.60	21.47	21.59		
20		25	24	21.80	21.71	21.74	21.82	21.82		
20		50	0	21.80	21.68	21.80	21.72	21.78		
20		1	1	20.53	20.33	20.68	20.54	20.64		
20	DFT-s-OFDM 64QAM	1	25	20.45	20.43	20.58	20.64	20.54	21	
20		1	49	20.40	20.42	20.57	20.50	20.69		
20		25	1	19.78	19.70	19.65	19.41	19.34		
20		25	12	19.64	19.73	19.58	19.45	19.51		
20		25	24	19.45	19.54	19.44	19.54	19.54		
20	DFT-s-OFDM 256QAM	50	0	19.42	19.50	19.49	19.43	19.46	20.5	
20		1	1	19.53	19.52	19.61	19.71	19.61		
20		1	25	19.43	19.64	19.58	19.55	19.64		
20		1	49	19.54	19.57	19.48	19.52	19.60		
20		25	1	18.45	19.52	19.63	19.45	19.49		
20	DFT-s-OFDM 256QAM	25	12	18.48	19.40	19.54	19.62	19.48	20	
20		25	24	18.53	19.43	19.64	19.55	19.52		
20		50	0	18.34	19.37	19.56	19.44	19.43		
20		1	1	18.66	18.50	18.52	18.50	18.57		
20		1	25	18.57	18.53	18.46	18.54	18.53		
20	DFT-s-OFDM 256QAM	1	49	18.65	18.57	18.53	18.52	18.51	19	
20		25	1	17.38	17.45	17.55	17.52	17.50		
20		25	12	17.54	17.41	17.44	17.44	17.47		
20		25	24	17.62	17.53	17.57	17.53	17.48		
20		50	0	17.45	17.42	17.55	17.50	17.46		

Channel Frequency (MHz)				505000	512000	519000	526000	533000	Tune-up limit
20	CP-OFDM QPSK	1	1	2525	2560	2595	2630	2665	20.5
20		1	25	20.04	19.91	19.97	20.15	20.01	
20		1	49	19.78	19.72	19.90	19.81	20.29	
20		25	1	19.79	19.90	19.84	19.69	19.97	
20		25	12	20.12	20.03	19.90	20.06	19.94	
20	CP-OFDM 16QAM	25	12	20.08	20.23	20.25	20.18	20.20	20.5
20		25	24	19.66	19.53	20.20	20.09	20.05	
20		50	0	20.02	19.86	19.86	19.79	19.75	
20		1	1	19.63	19.51	19.40	19.53	19.59	
20		1	25	18.80	19.00	19.05	18.86	19.19	
20	CP-OFDM 64QAM	1	49	19.01	18.90	19.25	19.07	19.48	20
20		25	1	18.32	18.12	18.12	18.04	18.18	
20		25	12	18.65	18.60	18.48	18.35	18.51	
20		25	24	19.52	19.58	19.53	19.55	19.46	
20		50	0	19.33	19.47	19.25	19.13	18.96	
20	CP-OFDM 256QAM	1	1	18.32	18.12	18.12	18.04	18.18	18.5
20		1	25	17.99	18.18	18.13	18.33	17.66	
20		1	49	18.18	17.99	18.06	18.11	17.93	
20		25	1	18.05	18.01	17.97	17.99	17.96	
20		25	12	17.98	18.12	18.01	18.03	17.91	
20	CP-OFDM 256QAM	25	24	18.11	18.30	17.93	17.84	17.93	16
20		50	0	17.98	18.08	18.06	18.25	18.26	
20		1	1	15.17	15.12	15.12	15.08	14.80	
20		1	25	15.07	14.90	15.00	15.15	14.88	
20		1	49	14.69	14.80	14.77	14.85	14.41	
20	CP-OFDM 256QAM	25	1	15.27	15.35	15.16	15.17	14.93	15.5
20		25	12	15.12	15.26	15.01	15.01	15.04	
20		25	24	15.05	15.18	15.07	14.99	14.89	
20		50	0	15.15	15.17	15.02	15.01	14.97	

2515
2675

5G NR n41 (Ant.5) for Head											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)		
Channel				513000	516000	519000	522000	525000	Tune-up limit (dBm)		
Frequency (MHz)				2565	2580	2595	2610	2625			
100	DFT-s-OFDM P/2 BPSK	1	1	21.46	21.48	21.57	21.41	21.40	22		
100		1	136	21.33	21.31	21.27	21.23	21.33			
100		1	272	21.23	21.22	21.31	21.54	21.23			
100		135	1	20.32	20.28	20.31	20.30	20.26			
100		135	67	20.00	20.18	20.13	19.96	20.07			
100		135	136	20.24	20.16	20.16	20.12	20.14			
100	DFT-s-OFDM QPSK	270	0	20.21	20.24	20.03	20.06	20.08	21.5		
100		1	1	21.58	21.54	21.62	21.55	21.61			
100		1	136	21.57	21.56	21.52	21.45	21.60			
100		1	272	21.46	21.42	21.58	21.46	21.24			
100		135	1	20.51	20.50	20.55	20.53	20.52			
100		135	67	20.43	20.52	20.48	20.39	20.37			
100	DFT-s-OFDM 16QAM	135	136	20.40	20.41	20.45	20.53	20.42	21		
100		270	0	20.52	20.19	20.17	20.32	20.38			
100		1	1	19.41	19.47	19.43	19.56	19.49			
100		1	136	19.36	19.34	19.49	19.55	19.45			
100		1	272	19.31	19.33	19.48	19.41	19.60			
100		135	1	18.69	18.61	18.56	18.32	18.25			
100	DFT-s-OFDM 64QAM	135	67	18.55	18.64	18.49	18.36	18.42	19		
100		135	136	18.36	18.45	18.35	18.45	18.45			
100		270	0	18.33	18.41	18.40	18.34	18.37			
100		1	1	18.36	18.34	18.45	18.47	18.38			
100		1	136	18.24	18.45	18.39	18.36	18.45			
100		1	271	18.35	18.38	18.29	18.33	18.41			
100	DFT-s-OFDM 256QAM	135	1	17.26	18.33	18.44	18.26	18.30	19		
100		135	67	17.29	18.21	18.35	18.43	18.29			
100		135	136	17.34	18.24	18.45	18.36	18.33			
100		270	0	17.15	18.18	18.37	18.25	18.24			
100		1	1	17.16	16.98	17.08	16.92	17.05			
100		1	136	17.33	17.29	17.22	17.30	17.29			
100	DFT-s-OFDM 256QAM	1	272	17.41	17.33	17.29	17.28	17.27	17		
100		135	1	16.14	16.21	16.31	16.28	16.26			
100		135	67	16.30	16.17	16.20	16.20	16.23			
100		135	136	16.38	16.29	16.33	16.29	16.24			
100		270	0	16.21	16.18	16.31	16.26	16.22			
100		270	0	16.21	16.18	16.31	16.26	16.22			
Channel				511000	512000	519000	523000	527000	Tune-up limit (dBm)		
Frequency (MHz)				2555	2575	2595	2615	2635			
80	DFT-s-OFDM P/2 BPSK	1	1	21.36	21.38	21.47	21.31	21.30	22		
80		1	108	21.23	21.21	21.17	21.13	21.23			
80		1	215	21.13	21.12	21.21	21.44	21.13			
80		108	1	20.22	20.18	20.21	20.20	20.16			
80		108	54	19.90	20.08	20.03	19.86	19.97			
80		108	108	20.14	20.06	20.06	20.02	20.04			
80	DFT-s-OFDM QPSK	216	0	20.11	20.14	19.93	19.96	19.98	21.5		
80		1	1	21.48	21.44	21.52	21.45	21.51			
80		1	108	21.47	21.46	21.42	21.35	21.50			
80		1	215	21.36	21.32	21.48	21.36	21.14			
80		108	1	20.41	20.40	20.45	20.43	20.42			
80		108	54	20.33	20.42	20.38	20.29	20.27			
80	DFT-s-OFDM 16QAM	108	108	20.30	20.31	20.35	20.43	20.32	21		
80		216	0	20.42	20.09	20.07	20.22	20.28			
80		1	1	19.31	19.37	19.33	19.46	19.39			
80		1	108	19.26	19.24	19.39	19.45	19.35			
80		1	215	19.21	19.23	19.38	19.31	19.50			
80		108	1	18.59	18.51	18.46	18.22	18.15			
80	DFT-s-OFDM 64QAM	108	54	18.45	18.54	18.39	18.26	18.32	19		
80		108	108	18.26	18.35	18.25	18.35	18.35			
80		216	0	18.23	18.31	18.30	18.24	18.27			
80		1	1	18.26	18.24	18.35	18.37	18.28			
80		1	108	18.14	18.35	18.29	18.26	18.35			
80		1	215	18.25	18.28	18.19	18.23	18.31			
80	DFT-s-OFDM 256QAM	108	1	17.16	18.23	18.34	18.16	18.20	19		
80		108	54	17.19	18.11	18.25	18.33	18.19			
80		108	108	17.24	18.14	18.35	18.26	18.23			
80		216	0	17.05	18.08	18.27	18.15	18.14			
80		1	1	17.06	16.98	16.98	16.82	16.95			
80		1	108	17.23	17.19	17.12	17.20	17.19			
80	DFT-s-OFDM 256QAM	1	215	17.31	17.23	17.19	17.18	17.17	18		
80		108	1	16.04	16.11	16.21	16.18	16.16			
80		108	54	16.20	16.07	16.10	16.10	16.13			
80		108	108	16.28	16.19	16.23	16.19	16.14			
80		216	0	16.11	16.08	16.21	16.16	16.12			
80		216	0	16.11	16.08	16.21	16.16	16.12			
Channel				509000	514000	519000	524000	529000	Tune-up limit (dBm)		
Frequency (MHz)				2545	2570	2595	2620	2645			
60	DFT-s-OFDM P/2 BPSK	1	1	21.36	21.38	21.47	21.31	21.30	22		
60		1	80	21.23	21.21	21.17	21.13	21.23			
60		1	160	21.13	21.12	21.21	21.44	21.13			
60		81	1	20.22	20.18	20.21	20.20	20.16			
60		81	40	19.90	20.08	20.03	19.86	19.97			
60		81	81	20.14	20.06	20.06	20.02	20.04			
60	DFT-s-OFDM QPSK	162	0	20.11	20.14	19.93	19.96	19.98	21.5		
60		1	1	21.48	21.44	21.52	21.45	21.51			
60		1	80	21.47	21.46	21.42	21.35	21.50			
60		1	160	21.36	21.32	21.48	21.36	21.14			
60		81	1	20.41	20.40	20.45	20.43	20.42			
60		81	40	20.33	20.42	20.38	20.29	20.27			
60	DFT-s-OFDM 16QAM	81	81	20.30	20.31	20.35	20.43	20.32	21		
60		162	0	20.42	20.09	20.07	20.22	20.28			
60		1	1	19.31	19.37	19.33	19.46	19.39			
60		1	80	19.26	19.24	19.39	19.45	19.35			
60		81	1	18.59	18.51	18.46	18.22	18.15			
60		81	40	18.45	18.54	18.39	18.26	18.32			
60	DFT-s-OFDM 64QAM	81	81	18.26	18.35	18.25	18.35	18.35	19		
60		162	0	18.23	18.31	18.30	18.24	18.27			
60		1	1	18.26	18.24	18.35	18.37	18.28			
60		1	80	18.14	18.35	18.29	18.26	18.35			
60		1	160	18.25	18.28	18.19	18.23	18.31			
60		81	1	17.16	18.23	18.34	18.16	18.20			
60	DFT-s-OFDM 256QAM	81	40	17.19	18.11	18.25	18.33	18.19	19		
60		81	81	17.24	18.14	18.35	18.26	18.23			
60		162	0	17.05	18.08	18.27	18.15	18.14			
60		1	1	17.06	16.98	16.98	16.82	16.95			
60		1	80	17.23	17.19	17.12	17.20	17.19			
60		1	160	17.31	17.23	17.19	17.18	17.17			
60	DFT-s-OFDM 256QAM	81	1	16.04	16.11	16.21	16.18	16.16	17		
60		81	40	16.20	16.07	16.10	16.10	16.13			
60		81	81	16.28	16.19	16.23	16.19	16.14			
60		162	0	16.11	16.08	16.21	16.16	16.12			
60		162	0	16.11	16.08	16.21	16.16	16.12			
Channel				507000	512000	519000	523000	531000	Tune-up limit (dBm)		
Frequency (MHz)				2635	2665	2695	2625	2655			
40	DFT-s-OFDM P/2 BPSK	1	1	21.25	21.27	21.36	21.20	21.19	22		
40		1	53	21.12	21.10	21.06	21.02	21.12			
40		1	105	21.02	21.01	21.01	21.33	21.02			
40		50	1	20.11	20.07	20.10	20.09	20.05			
40		50	25	19.79	19.97	19.92	19.75	19.86			
40		50	50	20.03	19.95	19.95	19.91	19.93			
40	DFT-s-OFDM P/2 BPSK	100	0	20.00	20.03	19.82	19.85	19.87	21.5		

40	DFT-s-OFDM QPSK	1	1	21.37	21.33	21.41	21.34	21.40	22		
40		1	53	21.36	21.35	21.31	21.24	21.39			
40		1	105	21.25	21.21	21.37	21.25	21.03			
40		50	1	20.30	20.29	20.34	20.32	20.31			
40		50	25	20.22	20.31	20.27	20.18	20.16			
40	DFT-s-OFDM 16QAM	50	50	20.19	20.20	20.24	20.32	20.21	21		
40		100	0	20.31	19.98	19.96	20.11	20.17			
40		1	1	19.20	19.26	19.22	19.35	19.28			
40		1	53	19.15	19.13	19.28	19.34	19.24			
40		1	105	19.10	19.12	19.27	19.20	19.39			
40	DFT-s-OFDM 64QAM	50	1	18.48	18.40	18.35	18.11	18.04	19		
40		50	25	18.34	18.43	18.28	18.15	18.21			
40		50	50	18.15	18.24	18.14	18.24	18.24			
40		100	0	18.12	18.20	18.19	18.13	18.16			
40		1	1	18.15	18.13	18.24	18.26	18.17			
40	DFT-s-OFDM 256QAM	1	53	18.03	18.24	18.18	18.15	18.24	18.5		
40		1	105	18.14	18.17	18.08	18.12	18.20			
40		50	1	17.05	18.12	18.23	18.05	18.09			
40		50	25	17.08	18.00	18.14	18.22	18.08			
40		50	50	17.13	18.03	18.24	18.15	18.12			
40	DFT-s-OFDM 256QAM	100	0	16.94	17.97	18.16	18.04	18.03	17.5		
40		1	1	16.95	16.77	16.87	16.71	16.84			
40		1	53	17.12	17.08	17.01	17.09	17.08			
40		1	105	17.20	17.12	17.08	17.07	17.06			
40		50	1	15.93	16.00	16.10	16.07	16.05			
40	DFT-s-OFDM 256QAM	50	25	16.09	15.99	15.99	15.99	16.02	16.5		
40		50	50	16.17	16.08	16.12	16.08	16.03			
40		100	0	16.00	15.97	16.10	16.05	16.01			
Channel Frequency (MHz)				505000	512000	519000	526000	533000		Tune-up limit	
				2525	2560	2595	2630	2665			
20	DFT-s-OFDM P1/2 BPSK	1	1	21.12	21.12	21.23	21.07	21.06	22		
20		1	25	20.99	20.97	20.93	20.89	20.99			
20		1	49	20.89	20.88	20.97	21.20	20.89			
20		25	1	19.98	19.94	19.97	19.96	19.92			
20		25	12	19.66	19.84	19.79	19.62	19.73			
20	DFT-s-OFDM QPSK	25	24	19.90	19.82	19.82	19.78	19.80	21.5		
20		50	0	19.87	19.90	19.69	19.72	19.74			
20		1	1	21.24	21.20	21.28	21.21	21.27			
20		1	25	21.23	21.22	21.18	21.11	21.26			
20		1	49	21.12	21.08	21.24	21.12	20.90			
20	DFT-s-OFDM 16QAM	25	1	20.17	20.16	20.21	20.19	20.18	22		
20		25	12	20.09	20.18	20.14	20.05	20.03			
20		25	24	20.06	20.07	20.11	20.19	20.08			
20		50	0	20.18	19.85	19.83	19.98	20.04			
20		1	1	19.07	19.13	19.09	19.22	19.15			
20	DFT-s-OFDM 16QAM	1	25	19.02	19.00	19.15	19.21	19.11	20		
20		1	49	18.97	18.99	19.14	19.07	19.26			
20		25	1	18.35	18.27	18.22	17.98	17.91			
20		25	12	18.21	18.30	18.15	18.02	18.08			
20		25	24	18.02	18.11	18.01	18.11	18.11			
20	DFT-s-OFDM 64QAM	50	0	17.99	18.07	18.06	18.00	18.03	19		
20		1	1	18.02	18.00	18.11	18.13	18.04			
20		1	25	17.90	18.11	18.05	18.02	18.11			
20		1	49	18.01	18.04	17.95	17.99	18.07			
20		25	1	16.92	17.99	18.10	17.92	17.96			
20	DFT-s-OFDM 256QAM	25	12	16.95	17.87	18.01	18.09	17.95	18.5		
20		25	24	17.00	17.90	18.11	18.02	17.99			
20		50	0	16.81	17.84	18.03	17.91	17.90			
20		1	1	16.82	16.64	16.74	16.58	16.71			
20		1	25	16.99	16.95	16.88	16.96	16.95			
20	DFT-s-OFDM 256QAM	1	49	17.07	16.99	16.95	16.94	16.93	17.5		
20		25	1	15.80	15.87	15.97	15.94	15.92			
20		25	12	15.96	15.83	15.86	15.86	15.89			
20		25	24	16.04	15.95	15.99	15.95	15.90			
20		50	0	15.87	15.84	15.97	15.92	15.88			

Channel Frequency (MHz)				505000	512000	519000	526000	533000	Tune-up limit
20	CP-OFDM QPSK	1	1	19.96	20.08	20.10	20.02	19.99	20.5
20		1	25	19.80	19.74	19.92	19.83	20.31	
20		1	49	19.81	19.92	19.86	19.71	19.99	
20		25	1	19.84	19.95	19.97	19.78	19.92	
20		25	12	19.90	20.06	19.98	19.90	19.82	
20	CP-OFDM 16QAM	25	24	19.68	19.55	20.22	20.11	20.07	20.5
20		50	0	20.04	19.88	19.88	19.81	19.77	
20		1	1	19.03	19.13	19.15	18.93	19.03	
20		1	25	19.08	19.02	19.03	18.84	18.77	
20		1	49	18.99	18.78	18.83	18.85	19.06	
20	CP-OFDM 64QAM	25	1	18.23	18.18	18.06	18.93	19.09	20
20		25	12	18.82	18.72	19.03	19.06	18.99	
20		25	24	19.10	19.16	19.11	19.13	19.04	
20		50	0	18.91	19.05	18.83	18.71	18.54	
20		1	1	15.16	15.04	15.17	15.12	15.14	
20	CP-OFDM 256QAM	1	25	15.06	15.25	15.20	15.06	14.93	16
20		1	49	15.25	15.06	15.15	15.18	15.00	
20		25	1	14.72	14.68	14.64	14.66	14.63	
20		25	12	14.85	14.69	14.58	14.90	14.78	
20		25	24	14.75	14.77	14.80	14.71	14.80	
20	CP-OFDM 256QAM	50	0	14.85	14.75	14.73	14.73	14.63	15.5
20		1	1	11.98	12.15	12.08	12.05	11.97	
20		1	25	11.99	11.82	11.92	12.07	11.80	
20		1	49	11.61	11.72	11.69	11.77	11.33	
20		25	1	12.19	12.27	12.08	12.09	11.85	
20	CP-OFDM 256QAM	25	12	12.04	12.18	11.93	11.93	11.96	12.5
20		25	24	11.97	12.10	11.99	11.91	11.81	
20		50	0	12.07	12.09	11.94	11.93	11.89	

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5G NR n41 (Ant.6) for Body											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel		Tune-up limit (dBm)	
Channel				513000	516000	519000	522000	525000			
Frequency (MHz)				2565	2580	2595	2610	2625			
100	DFT-s-OFDM P/2 BPSK	1	1	24.39	24.32	24.57	24.46	24.36	25.00		
100		1	136	24.39	24.31	24.45	24.39	24.26			
100		1	272	24.37	24.25	24.56	24.65	24.36			
100		135	1	23.01	22.86	23.33	23.18	23.36			
100		135	67	23.58	23.55	23.55	23.42	23.65			
100		135	136	23.07	22.92	23.00	23.04	22.80		24.00	
100	DFT-s-OFDM QPSK	270	0	23.08	22.93	23.42	23.23	23.48	25.00		
100		1	1	24.66	24.68	24.74	24.66	24.60			
100		1	136	24.38	24.28	24.62	24.51	24.71			
100		1	272	24.36	24.30	24.69	24.72	24.57			
100		135	1	23.81	23.84	23.92	23.73	23.81			
100		135	67	23.58	23.69	23.59	23.38	23.54		24.00	
100	DFT-s-OFDM 16QAM	135	136	23.79	23.67	23.79	23.72	23.78	24.00		
100		270	0	23.76	23.68	23.61	23.61	23.70			
100		1	1	22.34	22.28	22.59	22.55	22.62			
100		1	136	22.08	21.99	22.66	22.76	22.98			
100		1	272	22.53	22.55	22.64	22.72	22.68		24.00	
100		135	1	21.05	21.10	21.37	21.30	21.99		23.00	
100	DFT-s-OFDM 64QAM	135	67	21.04	21.02	21.42	21.49	21.82			
100		135	136	21.05	21.12	21.66	21.57	21.15			
100		270	0	21.16	21.22	21.42	21.37	21.07			
100		1	1	21.00	20.82	21.32	21.32	20.90	23.00		
100		1	136	21.01	21.02	21.57	21.61	21.21			
100		1	272	21.36	21.19	21.06	21.14	21.49			
100	DFT-s-OFDM 256QAM	135	1	21.73	21.73	21.88	21.87	21.32	23.00		
100		135	67	22.00	21.85	21.97	22.06	21.36			
100		135	136	22.10	21.93	22.15	22.17	21.51			
100		270	0	22.11	21.92	21.94	21.84	21.23			
100		1	1	20.01	19.85	19.89	19.84	19.30		21.00	
100		1	136	19.87	19.81	19.78	19.75	19.09			
100		DFT-s-OFDM 16QAM	135	1	20.04	19.97	19.92	19.81	19.34	21.00	
100			135	1	20.00	19.88	19.76	19.75	19.42		
100	135		67	19.84	19.80	19.89	19.75	19.38			
100	135		136	20.05	19.88	20.26	20.17	19.58			
100		270	0	20.04	20.04	20.10	19.91	19.11			
Channel				511000	515000	519000	523000	527000		Tune-up limit (dBm)	
Frequency (MHz)				2555	2575	2595	2615	2635			
80	DFT-s-OFDM P/2 BPSK	1	1	23.17	23.07	23.08	23.00	22.97	25.00		
80		1	108	22.95	22.92	23.20	23.26	22.88			
80		1	215	23.18	23.18	23.15	23.05	23.24			
80		108	1	22.52	22.33	22.69	22.79	22.30			
80		108	54	23.04	23.00	23.18	23.22	22.89		24.00	
80		108	108	22.59	22.55	22.77	22.57	22.64			
80	DFT-s-OFDM QPSK	216	0	22.64	22.55	22.72	22.77	22.61	25.00		
80		1	1	23.23	23.17	23.10	23.14	23.20			
80		1	108	23.10	22.91	22.92	22.73	23.40			
80		1	215	22.80	22.65	22.83	22.83	23.03			
80		108	1	23.95	23.96	23.53	23.44	23.46			
80		108	54	23.75	23.94	23.74	23.84	23.76		24.00	
80	DFT-s-OFDM 16QAM	108	108	23.43	23.53	23.66	23.72	23.52	24.00		
80		216	0	23.39	23.23	23.42	23.52	23.37			
80		1	1	22.26	22.31	22.14	22.05	21.74			
80		1	108	22.14	22.05	21.89	21.96	21.79			
80		1	215	22.06	22.01	22.01	22.05	22.35			
80		108	1	21.53	21.56	21.91	21.97	21.62		23.00	
80	DFT-s-OFDM 64QAM	108	54	22.29	22.15	22.08	22.07	21.96			
80		108	108	21.88	21.91	21.48	21.33	21.86			
80		216	0	21.14	21.08	20.96	20.79	20.97			
80		1	1	20.41	20.40	20.79	20.86	20.49	22.00		
80		1	108	21.32	21.37	20.54	20.62	20.48			
80		DFT-s-OFDM 256QAM	1	215	21.31	21.28	20.67	20.58	20.53	22.00	
80	108		1	21.50	21.49	20.87	20.87	20.93			
80	108		54	21.54	21.50	21.05	20.93	20.94			
80	108		108	21.56	21.49	20.96	21.00	21.39	22.00		
80	216		0	21.59	21.63	20.98	21.01	21.35			
80	DFT-s-OFDM 16QAM		1	1	19.09	19.03	18.98	18.86	19.12		21.00
80		1	108	19.02	19.10	18.95	18.87	19.09			
80		1	215	18.75	18.58	19.02	18.84	19.42			
80		108	1	19.26	19.30	19.29	19.17	19.41			
80		108	54	19.27	19.28	19.45	19.25	19.31	21.00		
80		108	108	19.42	19.26	19.40	19.50	19.52			
80		216	0	18.79	18.71	19.37	19.37	19.45			
Channel				509000	514000	519000	524000	529000		Tune-up limit	
Frequency (MHz)				2545	2570	2595	2620	2645			
60	DFT-s-OFDM P/2 BPSK	1	1	24.40	24.30	24.40	24.41	24.40	25.00		
60		1	80	24.13	24.05	24.38	24.40	24.37			
60		1	160	24.36	24.40	24.41	24.45	24.48			
60		81	1	23.96	23.85	24.14	23.98	24.09			
60		81	40	24.27	24.22	24.37	24.45	24.43		25.00	
60		81	81	23.85	23.95	24.39	24.37	24.23			
60	DFT-s-OFDM QPSK	162	0	23.93	23.87	24.24	24.05	24.11	25.00		
60		1	1	24.27	24.12	24.18	24.01	24.19			
60		1	80	23.95	23.88	24.45	24.31	24.23			
60		1	160	24.10	24.28	24.38	24.43	24.43			
60		81	1	24.07	24.07	23.65	23.64	24.45		25.00	
60		81	40	24.02	24.06	24.45	24.39	24.32			
60	DFT-s-OFDM 16QAM	81	81	24.10	24.06	23.54	23.59	23.56	25.00		
60		162	0	23.09	22.98	23.49	23.58	23.30			
60		1	1	23.58	23.52	23.49	23.34	23.52			
60		1	80	23.32	23.32	23.77	23.65	23.62		24.00	
60		1	160	23.57	23.41	23.93	23.94	23.89			
60		DFT-s-OFDM 64QAM	81	1	22.43	22.28	22.61	22.63		22.57	23.00
60	81		40	22.59	22.85	22.68	22.64	22.84			
60	81		81	22.34	22.23	22.78	22.58	22.64			
60	162		0	22.44	22.37	22.77	22.86	22.65			
60	1		1	21.79	21.83	21.98	22.04	21.71	23.00		
60	1		80	21.56	21.40	22.04	21.97	21.76			
60	DFT-s-OFDM 256QAM	1	160	21.69	21.66	22.10	21.97	22.09	23.00		
60		81	1	21.94	22.04	22.13	22.16	22.06			
60		81	40	21.81	21.81	22.23	22.31	22.03			
60		81	81	21.86	21.86	22.36	22.25	22.14			
60		162	0	22.00	22.05	22.33	22.35	22.13			
60		1	1	19.52	19.55	18.96	18.93	19.06		21.00	
60	DFT-s-OFDM 16QAM	1	80	19.66	19.72	18.82	18.97	19.81			
60		1	160	19.80	19.67	18.84	18.92	19.16			
60		81	1	19.87	19.72	19.67	19.67	19.49	21.00		
60		81	40	19.85	19.83	19.69	19.64	19.38			
60		81	81	19.91	19.74	19.68	19.63	19.36			
60		162	0	19.02	19.07	18.93	19.02	19.21			
Channel				507000	513000	519000	525000	531000		Tune-up limit	
Frequency (MHz)				2535	2565	2595	2625	2655			
40	DFT-s-OFDM P/2 BPSK	1	1	24.42	24.48	24.52	24.33	24.37	25.00		
40		1	53	24.18	24.17	24.53	24.52	24.47			
40		1	105	23.85	23.75	24.23	24.23	24.25			
40		50	1	24.01	23.93	24.14	23.94	23.99		25.00	
40		50	25	24.33	24.14	24.51	24.45	24.50			
40		50	50	23.74	23.80	24.28	24.17	24.15			
40	DFT-s-OFDM 16QAM	100	0	23.84	23.84	24.19	24.28	24.08			

5G NR n41 (Ant.6) for Body												
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel		Tune-up limit (dBm)		
Channel				513000	516000	519000	522000	525000				
Frequency (MHz)				2565	2580	2595	2610	2625				
100	CP-OFDM QPSK	1	1	21.90	21.94	21.92	21.60	21.51	22.00			
100		1	136	21.50	21.45	21.95	21.61	21.67				
100		1	272	21.62	21.47	22.11	21.73	21.65				
100		135	1	20.20	20.24	19.99	19.79	19.99				
100		135	67	20.03	19.84	19.96	20.09	20.03				
100		135	136	19.98	19.83	20.02	19.83	20.01				
100	CP-OFDM 16QAM	270	0	21.52	21.52	22.14	21.89	21.68	20.50			
100		1	1	21.46	21.26	21.34	21.09	21.14				
100		1	136	21.12	21.12	21.49	21.35	21.30				
100		1	272	21.27	21.35	21.36	21.34	21.38				
100		135	1	20.92	20.87	21.35	20.99	21.02				
100		135	67	21.11	21.15	21.45	21.26	21.25				
100	CP-OFDM 64QAM	135	136	20.84	20.90	21.13	21.17	21.18	22.00			
100		270	0	20.55	20.56	21.51	20.60	20.69				
100		1	1	20.07	19.87	20.18	19.59	19.70				
100		1	136	19.48	19.54	20.10	19.93	19.98				
100		1	271	19.69	19.68	20.06	19.98	19.89				
100		135	1	19.68	19.61	20.19	19.39	19.45				
100	CP-OFDM 256QAM	135	67	19.51	19.58	20.36	19.64	19.68	22.00			
100		135	136	19.54	19.45	20.15	20.02	20.01				
100		270	0	19.64	19.63	20.02	19.66	19.76				
100		1	1	17.88	17.91	17.34	17.22	17.39				
100		1	136	17.51	17.46	17.88	18.02	17.97				
100		1	272	17.43	17.45	17.89	17.37	17.51				
100	CP-OFDM 256QAM	135	1	17.59	17.47	17.85	17.85	17.86	20.50			
100		135	67	17.55	17.57	18.00	17.92	17.87				
100		135	136	17.47	17.38	18.16	18.13	18.06				
100		270	0	17.59	17.44	18.05	17.86	17.88				
Channel				511000	515000	519000	523000	527000				
Frequency (MHz)				2555	2575	2595	2615	2635				
80	CP-OFDM QPSK	1	1	20.03	20.17	20.30	20.19	20.45	21.00			
80		1	108	20.12	20.60	20.63	20.58	20.27				
80		1	215	19.73	20.53	20.45	20.49	20.51				
80		108	1	19.99	19.81	19.92	19.74	19.77				
80		108	54	19.78	20.52	20.47	20.36	20.33				
80		108	108	19.56	20.02	19.93	19.85	19.95				
80	CP-OFDM 16QAM	216	0	18.98	18.91	18.95	18.78	18.82	20.50			
80		1	1	19.74	19.64	19.70	19.50	19.62				
80		1	108	19.59	19.95	20.06	20.02	19.87				
80		1	215	19.74	19.79	19.96	19.76	20.24				
80		108	1	18.96	18.99	18.89	18.86	18.96				
80		108	54	19.35	19.25	19.26	19.21	19.27				
80	CP-OFDM 64QAM	108	108	18.99	18.85	18.79	18.88	18.97	20.00			
80		216	0	18.96	18.70	18.76	18.69	18.89				
80		1	1	20.80	20.74	20.81	20.63	20.72				
80		1	108	20.59	20.85	20.97	20.98	20.53				
80		1	215	20.81	20.80	20.79	20.83	20.94				
80		108	1	20.73	20.62	20.77	20.57	20.63				
80	CP-OFDM 256QAM	108	54	20.63	20.68	20.88	20.76	20.65	21.00			
80		108	108	20.71	20.90	20.87	20.88	20.91				
80		216	0	20.54	20.67	20.84	20.75	20.87				
80		1	1	17.52	17.59	17.58	17.64	17.63				
80		1	108	17.55	17.84	17.93	17.78	17.57				
80		1	215	17.54	17.92	17.88	17.70	17.88				
80	CP-OFDM 256QAM	108	1	17.57	17.72	17.81	17.74	17.66	18.50			
80		108	54	17.45	17.93	17.97	17.87	17.69				
80		108	108	17.57	17.94	17.99	17.97	17.88				
80		216	0	17.61	17.91	17.91	17.84	17.76				
Channel				509000	514000	519000	524000	529000				
Frequency (MHz)				2545	2570	2595	2620	2645				
60	CP-OFDM QPSK	1	1	21.70	21.70	22.14	22.19	22.06	23.00			
60		1	80	21.60	21.48	22.29	22.29	22.16				
60		1	160	21.83	21.90	22.44	22.46	22.31				
60		81	1	21.47	21.44	21.50	21.47	21.37				
60		81	40	21.64	21.49	21.42	21.51	21.29				
60		81	81	21.38	21.42	21.53	21.35	21.40				
60	CP-OFDM 16QAM	162	0	21.47	21.56	21.52	21.54	21.36	22.00			
60		1	1	21.56	21.64	21.38	21.43	22.12				
60		1	80	21.98	21.96	21.48	21.54	22.16				
60		1	160	21.57	21.58	21.95	22.04	22.31				
60		81	1	21.37	21.34	21.34	21.34	21.23				
60		81	40	21.26	21.11	21.50	21.36	21.28				
60	CP-OFDM 64QAM	81	81	21.24	21.26	21.60	21.50	21.31	22.00			
60		162	0	20.93	21.03	21.35	21.43	21.36				
60		1	1	20.95	20.90	21.41	21.41	21.14				
60		1	80	20.87	20.88	21.34	21.25	20.96				
60		1	160	21.05	21.06	21.48	21.48	21.40				
60		81	1	20.98	20.99	21.18	21.02	21.12				
60	CP-OFDM 256QAM	81	40	20.82	20.67	21.28	21.23	21.14	22.00			
60		81	81	20.96	20.83	21.41	21.43	21.21				
60		162	0	20.98	20.97	21.26	21.33	21.19				
60		1	1	16.75	16.80	16.70	16.77	17.50				
60		1	80	16.97	16.66	16.89	16.83	17.22				
60		1	160	16.82	16.69	17.63	17.52	17.36				
60	CP-OFDM 256QAM	81	1	17.95	17.84	17.24	17.17	17.15	18.00			
60		81	40	17.97	17.90	18.00	17.91	17.16				
60		81	81	17.95	17.86	17.19	17.12	17.27				
60		162	0	17.86	17.69	18.36	18.34	18.31				
Channel				507000	513000	519000	525000	531000				
Frequency (MHz)				2535	2565	2595	2625	2655				
40	CP-OFDM QPSK	1	1	21.97	22.03	22.03	21.93	22.12	22.50			
40		1	53	21.59	21.69	21.98	21.94	22.15				
40		1	105	21.90	21.75	21.91	21.75	22.13				
40		50	1	21.46	21.37	21.72	21.74	21.71				
40		50	25	21.91	21.92	21.92	21.90	21.91				
40		50	50	21.45	21.39	21.98	21.79	21.88				
40	CP-OFDM 16QAM	100	0	21.48	21.41	21.86	21.91	21.82	22.50			
40		1	1	21.88	21.88	21.59	21.42	22.04				
40		1	53	21.40	21.46	21.33	21.28	22.11				
40		1	105	21.99	21.85	21.22	21.20	22.13				
40		50	1	20.53	20.52	20.50	20.46	20.92				
40		50	25	21.02	21.10	20.90	20.80	21.02				
40	CP-OFDM 256QAM	50	50	20.63	20.59	20.82	20.76	20.82	22.50			
40		100	0	20.64	20.78	20.68	20.65	20.76				
40		1	1	21.05	21.06	20.96	20.86	21.21				
40		1	53	20.98	21.04	20.98	20.89	21.34				
40		1	105	21.11	21.14	20.98	20.79	21.39				
40		50	1	21.16	21.16	21.01	21.06	21.34				
40	CP-OFDM 256QAM	50	25	20.96	20.84	20.90	20.90	21.35	22.50			
40		50	50	20.88	20.85	20.97	20.96	21.40				
40		100	0	21.05	21.14	21.24	21.23	21.38				
40		1	1	18.14	17.99	18.10	17.92	18.13				
40		1	53	17.87	17.69	18.32	18.28	18.12				
40		1	105	17.89	17.97	18.48	18.56	18.43				
40	CP-OFDM 256QAM	50	1	18.14	18.08	18.09	17.96	18.22	19.00			
40		50	25	17.99	17.87	18.29	18.13	18.23				
40		50	50	17.90	17.73	18.39	18.39	18.42				
40		100	0	17.99	18.07	18.30	18.33	18.26				

40	DFT-s-OFDM QPSK	1	53	23.52	23.54	23.54	23.98	24.28	25.00	
40		1	105	23.74	23.74	24.10	24.14	23.75		
40		50	1	23.57	23.98	23.64	23.60	23.71		
40		50	25	23.98	23.87	23.96	24.05	23.87		
40		50	50	23.59	23.87	24.02	23.90	24.14		
40	DFT-s-OFDM 16QAM	100	0	23.69	23.68	24.00	23.98	23.96		
40		1	1	22.59	22.43	23.20	23.01	23.17		
40		1	53	22.24	22.25	23.15	22.98	23.00		
40		1	105	22.87	22.68	22.85	22.94	22.75		
40		50	1	22.60	22.50	22.90	22.85	22.88		
40	DFT-s-OFDM 64QAM	50	25	22.37	22.34	22.06	21.99	22.90		
40		50	50	22.31	22.31	22.05	22.06	22.95		
40		100	0	22.41	22.38	23.02	22.99	22.97		
40		1	1	20.75	20.69	20.50	20.45	20.34		
40		1	53	20.86	20.69	20.27	20.25	20.13		
40	DFT-s-OFDM 256QAM	1	105	20.74	20.79	20.55	20.65	20.50		
40		50	1	22.04	22.04	22.45	22.30	22.37		
40		50	25	22.09	21.97	22.52	22.24	22.44		
40		50	50	22.12	22.17	22.55	22.46	22.48		
40		100	0	22.78	22.78	22.49	22.54	22.42		
40	DFT-s-OFDM 256QAM	1	1	20.45	20.33	20.41	20.30	20.78		
40		1	53	20.15	20.03	20.32	20.37	20.16		
40		1	105	20.07	20.09	20.54	20.36	20.47		
40		50	1	20.28	20.22	20.42	20.36	20.26		
40		50	25	20.07	20.11	20.36	20.20	20.37		
40	Channel Frequency (MHz)	50	50	19.97	19.79	20.51	20.39	20.17		
40		100	0	20.13	20.12	20.46	20.38	20.35		
				505000	512000	519000	526000	533000	Tune-up limit	
				2525	2560	2595	2630	2665		
20		DFT-s-OFDM P1/2 BPSK	1	1	23.63	23.67	24.16	24.21	24.20	25.00
20	1		25	23.61	23.67	24.20	24.18	24.18		
20	1		49	23.64	23.64	24.21	24.19	24.15		
20	25		1	23.86	23.89	24.18	24.08	24.49		
20	25		12	23.92	23.78	24.32	24.16	24.31		
20	DFT-s-OFDM QPSK	25	24	23.84	23.75	24.47	24.33	24.45	25.00	
20		50	0	23.94	24.01	24.18	24.28	24.48		
20		1	1	24.57	24.55	24.36	24.28	24.56		
20		1	25	24.56	24.51	24.31	24.38	24.41		
20		1	49	24.51	24.53	24.15	23.96	24.41		
20	DFT-s-OFDM 16QAM	25	1	24.34	24.44	24.04	24.12	23.91	25.00	
20		25	12	24.35	24.31	24.40	24.40	24.49		
20		25	24	23.92	23.91	23.99	23.91	23.92		
20		50	0	23.79	23.81	23.67	23.56	23.93		
20		1	1	23.86	23.68	23.41	23.26	23.76		
20	DFT-s-OFDM 64QAM	1	25	23.76	23.64	23.17	23.01	23.79	24.00	
20		1	49	23.81	23.72	22.91	22.95	23.78		
20		25	1	22.82	22.62	22.13	22.04	22.77		
20		25	12	22.84	22.69	22.14	22.13	23.00		
20		25	24	22.88	22.94	22.06	22.02	22.84		
20	DFT-s-OFDM 256QAM	50	0	22.78	22.63	22.19	22.28	22.86	23.00	
20		1	1	22.11	22.18	22.07	22.17	22.00		
20		1	25	22.01	21.91	21.73	21.55	22.24		
20		1	49	22.13	22.21	21.92	21.98	22.15		
20		25	1	22.25	22.12	22.15	22.25	22.22		
20	DFT-s-OFDM 256QAM	25	12	22.23	22.13	22.06	22.16	22.35	23.00	
20		25	24	22.24	22.08	22.14	22.15	22.26		
20		50	0	22.22	22.04	22.16	22.02	22.19		
20		1	1	20.06	19.92	19.49	19.44	20.05		
20		1	25	19.96	19.93	19.87	19.82	20.08		
20	DFT-s-OFDM 256QAM	1	49	20.07	20.11	19.52	19.42	20.01	21.00	
20		25	1	20.15	20.00	19.73	19.74	20.21		
20		25	12	20.02	19.82	19.53	19.39	20.20		
20		25	24	20.03	19.85	19.41	19.27	20.15		
20		50	0	20.21	20.23	19.73	19.64	19.98		

Channel Frequency (MHz)				505000	512000	519000	526000	533000	Tune-up limit
				2525	2560	2595	2630	2665	
20	CP-OFDM QPSK	1	1	22.87	22.83	22.95	23.16	23.22	24.00
20		1	25	22.85	22.89	22.97	23.35	23.25	
20		1	49	22.99	23.01	23.42	23.29	23.32	
20		25	1	21.62	21.44	21.54	21.86	21.83	
20		25	12	21.84	21.73	21.91	21.90	22.01	
20	CP-OFDM 16QAM	25	24	21.60	21.69	21.76	21.73	21.89	22.50
20		50	0	21.47	21.40	21.71	21.87	21.78	
20		1	1	21.70	21.60	21.88	22.38	22.52	
20		1	25	21.90	21.97	21.91	22.20	22.12	
20		1	49	22.31	22.32	21.87	22.01	22.16	
20	CP-OFDM 64QAM	25	1	21.91	21.92	21.89	21.94	22.01	22.00
20		25	12	22.24	22.17	21.48	22.15	22.12	
20		25	24	21.94	21.75	21.42	22.00	21.99	
20		50	0	21.22	21.19	20.85	21.38	21.54	
20		1	1	21.57	21.53	21.11	21.22	21.42	
20	CP-OFDM 256QAM	1	25	21.32	21.19	21.07	21.62	21.53	22.00
20		1	49	21.30	21.10	21.16	21.57	21.50	
20		25	1	21.28	21.37	21.08	20.96	21.10	
20		25	12	21.32	21.20	21.16	21.45	21.36	
20		25	24	21.19	21.07	21.25	21.33	21.37	
20	CP-OFDM 256QAM	50	0	21.35	21.20	21.20	21.33	21.32	18.50
20		1	1	17.98	18.00	18.09	17.91	18.03	
20		1	25	17.97	17.91	17.98	17.90	18.00	
20		1	49	17.82	17.85	18.27	18.00	18.01	
20		25	1	17.99	17.99	18.62	18.60	18.59	
20	CP-OFDM 256QAM	25	12	17.80	17.83	17.99	18.45	18.57	19.00
20		25	24	17.96	18.04	18.63	18.16	18.35	
20		50	0	17.56	17.60	18.10	18.49	18.40	

2515
2675

5G NR n41 (Ant.5) for Body										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)	
Channel				513000	516000	519000	522000	525000		
Frequency (MHz)				2565	2580	2595	2610	2625		
100	DFT-s-OFDM P/2 BPSK	1	1	25.31	25.38	25.40	25.24	25.26	26	
100		1	136	25.53	25.17	25.22	25.24	25.36		
100		1	272	24.79	24.91	25.10	24.77	24.93		
100		135	1	24.66	24.54	24.61	24.90	24.87		
100		135	67	25.08	25.01	25.01	25.08	25.01		
100		135	136	24.34	24.74	24.83	24.64	24.65		
100	DFT-s-OFDM QPSK	270	0	24.45	24.59	24.70	24.63	24.71	25	
100		1	1	25.52	25.55	25.61	25.54	25.51		
100		1	136	25.31	25.45	25.57	25.55	25.39		
100		1	272	25.26	25.23	25.40	25.29	25.21		
100		135	1	24.81	24.85	24.92	24.83	24.82		
100		135	67	24.83	24.71	24.73	24.75	24.73		
100	DFT-s-OFDM 16QAM	135	136	24.59	24.68	24.47	24.48	24.53	25	
100		270	0	24.65	24.25	24.59	24.49	24.25		
100		1	1	24.29	24.09	24.29	24.28	24.34		
100		1	136	24.25	24.34	24.29	24.32	24.28		
100		1	272	24.14	24.15	24.19	24.00	24.19		
100		135	1	24.17	23.80	23.88	23.89	23.84		
100	DFT-s-OFDM 64QAM	135	67	24.04	24.10	24.26	24.20	24.20	25	
100		135	136	23.93	23.80	23.97	23.66	23.68		
100		270	0	23.05	23.25	23.16	23.25	23.30		
100		1	1	23.21	23.25	23.24	22.87	22.91		
100		1	136	22.67	22.42	22.53	22.74	22.68		
100		1	271	22.56	22.64	22.59	22.69	22.63		
100	DFT-s-OFDM 256QAM	135	1	22.63	22.76	22.67	22.89	22.81	23.5	
100		135	67	22.58	22.73	22.81	22.90	22.84		
100		135	136	22.39	22.76	22.81	22.58	22.71		
100		270	0	22.47	22.68	22.69	22.55	22.73		
100		1	1	20.26	20.31	20.35	20.30	20.20		
100		1	136	20.56	20.53	20.63	20.61	20.61		
100	DFT-s-OFDM 16QAM	1	272	20.25	20.24	20.43	20.41	20.46	21	
100		135	1	20.68	20.51	20.61	20.55	20.53		
100		135	67	20.55	20.43	20.42	20.49	20.67		
100		135	136	20.34	20.27	20.48	20.61	20.63		
100		270	0	20.53	20.59	20.68	20.64	20.56		
100		270	0	20.53	20.59	20.68	20.64	20.56		
Channel				511000	516000	519000	523000	527000	Tune-up limit (dBm)	
Frequency (MHz)				2555	2575	2595	2615	2635		
80	DFT-s-OFDM P/2 BPSK	1	1	25.47	25.49	24.90	24.99	25.11	26	
80		1	108	25.41	25.29	24.87	24.91	25.15		
80		1	215	24.99	24.93	24.78	24.85	24.73		
80		108	1	24.47	24.49	24.16	24.16	24.13		
80		108	54	24.13	24.21	24.54	24.64	24.36		
80		108	108	24.37	24.27	24.17	24.14	24.14		
80	DFT-s-OFDM QPSK	216	0	24.40	24.33	24.13	24.15	24.21	25	
80		1	1	25.13	25.22	25.42	25.32	25.22		
80		1	108	25.45	25.25	24.52	24.59	24.62		
80		1	215	25.23	25.09	25.14	25.13	25.16		
80		108	1	24.54	24.54	24.49	24.68	25.35		
80		108	54	25.38	25.44	25.47	25.36	25.06		
80	DFT-s-OFDM 16QAM	108	108	24.67	24.52	24.67	24.65	24.91	25	
80		216	0	24.52	24.43	24.62	24.71	25.05		
80		1	1	24.48	24.57	24.49	24.49	24.46		
80		1	108	24.38	24.37	24.58	24.50	24.46		
80		1	215	24.46	24.50	24.39	24.29	24.38		
80		108	1	23.37	23.42	23.39	23.47	23.45		
80	DFT-s-OFDM 64QAM	108	54	23.56	23.59	23.64	23.67	23.69	24	
80		108	108	23.34	23.40	23.59	23.62	23.70		
80		216	0	23.31	23.29	23.46	23.39	23.47		
80		1	1	22.18	21.98	22.11	21.96	22.63		
80		1	108	22.22	22.04	22.47	22.39	22.24		
80		1	215	21.80	21.71	22.19	22.29	22.18		
80	DFT-s-OFDM 256QAM	108	1	22.38	22.18	22.32	22.12	22.58	23	
80		108	54	22.43	22.23	22.44	22.29	22.46		
80		108	108	22.23	22.13	22.47	22.44	22.39		
80		216	0	22.34	22.18	22.49	22.48	22.41		
80		1	1	20.18	20.21	20.23	20.20	20.62		
80		1	108	20.21	20.10	20.32	20.19	20.39		
80	DFT-s-OFDM 64QAM	1	215	19.78	19.81	20.31	20.19	20.07	21	
80		108	1	20.41	20.36	20.39	20.48	20.48		
80		108	54	20.42	20.24	20.51	20.51	20.48		
80		108	108	20.23	20.24	20.58	20.42	20.33		
80		216	0	20.33	20.16	20.45	20.39	20.51		
80		216	0	20.33	20.16	20.45	20.39	20.51		
Channel				509000	514000	519000	524000	529000	Tune-up limit	
Frequency (MHz)				2545	2570	2595	2620	2645		
60	DFT-s-OFDM P/2 BPSK	1	1	25.30	24.89	25.08	25.30	25.33	26	
60		1	80	25.30	25.39	25.35	25.05	25.12		
60		1	160	25.21	25.33	25.42	25.09	25.08		
60		81	1	24.19	24.28	24.25	24.33	24.33		
60		81	40	24.64	24.61	24.59	24.41	24.52		
60		81	81	24.36	24.36	24.52	24.32	24.33		
60	DFT-s-OFDM QPSK	162	0	24.24	24.18	24.29	24.20	24.33	25	
60		1	1	25.16	24.98	24.94	25.26	25.20		
60		1	80	25.07	25.17	25.18	24.87	24.99		
60		1	160	25.00	25.36	25.26	24.72	24.83		
60		81	1	24.08	23.91	23.99	24.18	24.08		
60		81	40	24.16	24.13	24.08	24.08	24.03		
60	DFT-s-OFDM 16QAM	81	81	24.13	24.43	24.54	24.17	24.20	25	
60		162	0	24.14	24.19	24.26	23.92	24.10		
60		1	1	24.27	24.10	24.03	23.51	23.63		
60		1	80	24.21	24.23	24.28	23.93	24.01		
60		1	160	24.09	24.48	24.49	23.88	24.03		
60		81	1	23.16	23.22	23.14	23.17	23.14		
60	DFT-s-OFDM 64QAM	81	40	23.59	23.60	23.63	23.68	23.56	24	
60		81	81	23.15	23.32	23.49	23.26	23.19		
60		162	0	23.12	23.31	23.23	23.03	23.07		
60		1	1	23.08	22.79	22.93	23.35	23.35		
60		1	80	23.01	23.02	23.17	23.27	23.21		
60		1	160	22.91	23.19	23.34	22.82	22.88		
60	DFT-s-OFDM 256QAM	81	1	22.16	22.20	22.13	22.28	22.23	23	
60		81	40	22.23	22.13	22.33	22.21	22.11		
60		81	81	22.24	22.47	22.45	22.24	22.22		
60		162	0	22.26	22.32	22.35	22.03	22.16		
60		1	1	20.49	20.59	20.71	20.59	20.75		
60		1	80	20.59	20.44	20.49	20.38	20.42		
60	DFT-s-OFDM 256QAM	1	160	20.45	20.92	20.86	20.09	20.29	21	
60		81	1	20.55	20.47	20.53	20.59	20.68		
60		81	40	20.64	20.75	20.73	20.43	20.62		
60		81	81	20.73	20.84	20.92	20.52	20.66		
60		162	0	20.71	20.82	20.75	20.42	20.63		
Channel				507000	513000	519000	525000	531000	Tune-up limit	
Frequency (MHz)				2535	2565	2595	2625	2655		
40	DFT-s-OFDM P/2 BPSK	1	1	25.33	25.16	25.43	25.23	25.15	26	
40		1	53	25.27	25.17	25.44	25.01	25.06		
40		1	105	24.95	25.03	25.06	25.00	25.05		
40		50	1	24.92	24.88	24.94	24.58	24.65		
40		50	25	24.37	24.50	24.88	24.91	24.59		
40		50	50	24.68	24.63	24.64	24.59	24.36		
40	DFT-s-OFDM P/2 BPSK	100	0	24.97	24.87	24.65	25.00	24.69	25.5	

40	DFT-s-OFDM QPSK	1	1	23.19	23.12	22.23	23.21	23.13	24	
40		1	53	23.01	22.87	23.09	23.01	23.17		
40		1	105	22.67	22.67	22.87	22.46	22.64		
40		50	1	22.90	22.86	22.87	22.98	22.19		
40		50	25	23.03	23.07	23.13	23.02	23.19		
40	DFT-s-OFDM 16QAM	50	50	22.34	22.22	22.27	22.30	22.25	23	
40		100	0	22.13	21.97	22.18	22.07	22.18		
40		1	1	24.67	24.64	24.01	24.07	24.05		
40		1	53	24.84	24.88	24.13	24.07	24.27		
40		1	105	23.91	23.99	23.98	23.94	23.94		
40	DFT-s-OFDM 64QAM	50	1	23.87	23.90	24.10	23.93	24.05	25	
40		50	25	24.80	24.80	24.09	24.22	24.20		
40		50	50	24.07	24.00	24.32	24.20	24.19		
40		100	0	24.00	24.07	24.12	24.21	24.13		
40		1	1	23.64	23.69	23.28	23.45	23.50		
40	DFT-s-OFDM 256QAM	1	53	23.49	23.40	23.29	23.20	23.35	24	
40		1	105	22.71	22.80	22.72	22.70	22.84		
40		50	1	23.46	23.31	23.50	23.36	23.56		
40		50	25	23.41	23.41	23.61	23.78	23.70		
40		50	50	23.58	23.38	23.72	23.78	23.72		
40	DFT-s-OFDM 16QAM	100	0	23.47	23.42	23.63	23.48	23.65	21	
40		1	1	20.21	20.11	20.38	20.57	20.57		
40		1	53	20.22	20.11	20.48	20.50	20.52		
40		1	105	20.35	20.34	20.68	20.24	20.17		
40		50	1	20.13	19.97	20.40	20.17	20.33		
40	DFT-s-OFDM 64QAM	50	25	20.32	20.28	20.49	20.22	20.20	21	
40		50	50	20.46	20.48	20.61	20.40	20.56		
40		100	0	20.38	20.24	20.57	20.19	20.12		
Channel Frequency (MHz)				505000	512000	519000	526000	533000	Tune-up limit	
				2525	2560	2595	2630	2665		
20	DFT-s-OFDM P1/2 BPSK	1	1	25.14	24.98	25.08	25.11	25.18	26	
20		1	25	24.83	25.06	25.19	24.74	24.92		
20		1	49	25.04	25.35	25.28	24.69	24.81		
20		25	1	24.47	24.73	24.78	24.84	24.81		
20		25	12	24.99	25.36	25.29	24.68	24.81		
20	DFT-s-OFDM QPSK	25	24	24.46	24.87	24.77	24.57	24.66	26	
20		50	0	24.56	24.80	24.75	24.48	24.50		
20		1	1	24.95	24.65	24.75	24.82	24.98		
20		1	25	24.55	24.88	25.04	24.77	24.80		
20		1	49	24.79	25.20	25.12	24.60	24.67		
20	DFT-s-OFDM 16QAM	25	1	24.39	24.20	24.12	23.93	23.89	24.5	
20		25	12	24.47	24.01	24.07	24.57	24.67		
20		25	24	24.38	24.10	24.09	23.90	23.95		
20		50	0	24.15	24.07	24.09	23.72	23.88		
20		1	1	24.19	24.34	24.24	24.06	24.22		
20	DFT-s-OFDM 64QAM	1	25	23.80	24.27	24.29	24.26	24.24	25	
20		1	49	24.11	24.26	24.38	23.98	23.91		
20		25	1	23.63	23.29	23.38	23.15	23.21		
20		25	12	23.65	23.47	23.39	23.46	23.59		
20		25	24	23.52	23.19	23.35	23.81	23.86		
20	DFT-s-OFDM 256QAM	50	0	22.98	23.41	23.33	23.14	23.21	24	
20		1	1	22.43	22.50	22.54	22.76	22.83		
20		1	25	22.32	22.42	22.48	23.08	23.01		
20		1	49	22.18	22.48	22.47	22.11	22.15		
20		25	1	22.55	22.78	22.93	22.61	22.75		
20	DFT-s-OFDM 16QAM	25	12	22.47	22.85	22.93	22.55	22.63	23	
20		25	24	22.61	22.62	22.76	22.25	22.24		
20		50	0	22.54	22.88	22.83	22.17	22.30		
20		1	1	20.43	20.50	20.45	20.80	20.87		
20		1	25	20.28	20.40	20.42	20.45	20.64		
20	DFT-s-OFDM 64QAM	1	49	20.32	20.65	20.59	19.97	20.14	21	
20		25	1	20.41	20.54	20.62	20.32	20.50		
20		25	12	20.37	20.41	20.58	20.45	20.62		
20		25	24	20.34	20.59	20.66	20.61	20.54		
20		50	0	20.45	20.44	20.64	20.36	20.55		

Channel				505000	512000	519000	526000	533000	Tune-up limit	
Frequency (MHz)				2525	2560	2595	2630	2665		
20	CP-OFDM QPSK	1	1	21.64	21.64	21.02	21.00	21.66	22	
20		1	25	21.39	21.25	21.72	21.60	21.36		
20		1	49	21.56	21.61	21.65	21.53	21.38		
20		25	1	21.16	21.00	21.25	21.09	20.97		
20		25	12	21.08	21.02	21.44	21.33	21.28		
20	CP-OFDM 16QAM	25	24	20.91	20.87	20.95	20.98	20.81	22	
20		50	0	20.02	20.00	20.29	20.28	20.08		
20		1	1	21.30	21.24	20.91	20.90	20.83		
20		1	25	21.11	20.96	21.48	21.34	21.24		
20		1	49	21.25	21.30	21.46	21.55	21.07		
20	CP-OFDM 64QAM	25	1	20.27	20.25	20.25	20.28	20.28	21	
20		25	12	20.67	20.64	20.64	20.67	20.62		
20		25	24	20.26	20.30	20.39	20.34	20.29		
20		50	0	20.11	20.12	20.33	20.26	20.13		
20		1	1	19.75	19.85	19.54	19.52	19.85		
20	CP-OFDM 256QAM	1	25	19.57	19.66	19.69	19.53	19.85	20.5	
20		1	49	19.70	19.75	20.01	20.05	19.78		
20		25	1	19.52	19.33	19.74	19.81	19.55		
20		25	12	19.64	19.55	19.91	19.75	19.66		
20		25	24	19.49	19.38	19.84	19.93	19.56		
20	CP-OFDM 16QAM	50	0	19.54	19.41	19.85	19.65	19.70	20.5	
20		1	1	16.63	16.48	16.62	16.70	16.73		
20		1	25	16.39	16.29	16.24	16.04	16.54		
20		1	49	16.56	16.65	16.71	16.53	16.26		
20		25	1	16.38	16.29	16.72	16.61	16.67		
20	CP-OFDM 256QAM	25	12	16.45	16.48	16.75	16.75	16.65	17	
20		25	24	16.48	16.43	16.69	16.51	16.53		
20		50	0	16.53	16.41	16.73	16.46	16.60		
				2515	2675					
				2515	2675					

7z WLAN ANT 8

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	15.25	16.00	15	100.00	
		2437	15.66	16.50	15		
		2462	15.60	16.50	15		
	CH 11	2412	15.53	16.00	15	100.00	
		2437	15.68	16.50	15		
		2462	15.93	17.50	15		
802.11g 6Mbps	CH 1	2412	15.46	16.00	15	99.00	
		2437	15.71	16.50	15		
		2462	15.83	16.50	15		
	CH 11	2412	15.52	16.00	15	99.15	
		2437	15.66	16.50	15		
		2462	15.76	16.50	15		
802.11n-HT20 MCS0	CH 1	2412	15.44	16.00	15	99.00	
		2437	15.30	16.00	15		
		2462	15.59	16.00	15		
	CH 11	2412	15.53	16.00	15	100.00	
		2437	15.58	16.00	15		
		2462	15.41	16.00	15		
802.11n-HEW20 (RU24)	CH 1	2412	15.11	15.50	15	100.00	
		2437	15.97	16.50	15		
		2462	15.70	16.50	15		
	CH 11	2412	15.03	15.50	15	100.00	
		2437	15.88	16.50	15		
		2462	15.01	15.00	15		
802.11n-HEW20 (RU100)	CH 3	2422	14.72	15.50	15	99.00	
		2437	14.34	15.50	15		
		2462	14.65	15.50	15		

2.4GHz WLAN ANT 9

Channel	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %	
2.4GHz WLAN ANT 5	802.11b 1Mbps	CH 1	2412	15.95	16.50	15		
		CH 2	2437	15.91	16.50	15	100.00	
		CH 11	2462	15.64	17.00	15		
	802.11g 6Mbps	CH 1	2412	15.77	16.50	15		
		CH 2	2437	17.81	16.50	15	100.00	
		CH 11	2462	15.49	16.00	15		
	802.11n-HT20 MCS0	CH 1	2412	15.01	15.50	15		99.00
		CH 2	2437	15.04	15.50	15		
		CH 11	2462	16.75	17.00	15		
	802.11n-HT40 MCS0	CH 1	2412	15.08	16.00	15		99.15
		CH 2	2437	15.24	16.00	15		
		CH 8	2462	15.30	16.00	15		
802.11n-HEW20 (RU24)	CH 1	2412	15.53	16.00	15		99.00	
	CH 2	2437	15.44	16.00	15			
	CH 11	2462	15.46	16.00	15			
802.11n-HEW20 (RU20)	CH 1	2412	15.41	16.00	15		100.00	
	CH 2	2437	16.29	17.00	15			
	CH 8	2462	15.29	16.00	15			
802.11n-HEW20 (RU100)	CH 1	2412	15.22	16.00	15		100.00	
	CH 2	2437	16.18	17.00	15			
	CH 11	2462	15.08	16.50	15			
802.11n-HEW40 MCS0	CH 1	2412	15.19	16.00	15		100.00	
	CH 2	2437	15.99	16.50	15			
	CH 8	2462	14.29	15.00	15		99.00	
802.11n-HEW40 MCS0	CH 1	2412	15.13	15.50	15		99.00	
	CH 2	2437	15.13	15.50	15			
	CH 8	2462	15.00	15.50	15			

2.4GHz WLAN ANT 8+9

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	18.63	19.00	15	100.00	
		2437	18.81	19.00	15		
		2462	18.69	19.00	15		
	CH 11	2412	18.63	19.00	15	100.00	
		2437	18.87	20.00	15		
		2462	18.75	19.00	15		
802.11n-HT20 MCS0	CH 1	2412	18.26	19.00	15	99.00	
		2437	18.45	20.00	15		
		2462	19.34	20.00	15		
	CH 13	2412	18.40	19.00	15	99.15	
		2437	18.51	19.00	15		
		2462	18.57	19.00	15		
2.4GHz WLAN ANT-B-5	802.11n-HEW20 (RU24)	CH 1	2412	18.51	19.00	15	99.00
			2437	18.45	19.00	15	
			2462	18.45	19.00	15	
	CH 9	2412	18.39	19.00	15	100.00	
		2437	18.81	19.00	15		
		2462	18.39	19.00	15		
802.11n-HEW20 (RU100)	CH 1	2412	18.20	19.00	15	100.00	
		2437	19.08	19.50	15		
		2462	18.06	18.50	15		
	CH 11	2412	18.13	18.50	15	99.00	
		2437	18.92	19.00	15		
		2462	17.56	18.50	15		
802.11n-HEW40 MCS0	CH 9	2437	18.06	18.50	15	99.00	
		2462	17.85	18.50	15		
		2412	17.56	18.50	15		
	CH 11	2437	18.06	18.50	15	99.00	
		2462	17.85	18.50	15		
		2412	17.56	18.50	15		

5 WLAN ANT 8

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT B	802.11a 6Mbps	CH 36	5180	13.07	13.50	15	100.00
		CH 44	5200	12.82	13.50	15	
		CH 48	5240	12.90	13.50	15	
	802.11n-HT20 MCS0	CH 36	5180	12.52	13.00	15	99.30
		CH 44	5200	12.68	13.00	15	
		CH 48	5240	12.81	13.50	15	
	802.11n-HT40 MCS0	CH 36	5180	13.08	13.50	15	99.30
		CH 46	5230	13.10	13.50	15	
		CH 36	5180	12.98	13.50	15	
	802.11ac-VHT20 MCS0	CH 44	5200	12.95	13.50	15	99.00
		CH 48	5240	13.01	13.50	15	
		CH 36	5180	13.10	13.50	15	
	802.11ac-VHT40 MCS0	CH 46	5230	13.01	13.50	15	99.00
		CH 42	5210	13.12	13.50	15	
		CH 42	5210	13.11	13.50	15	
	802.11ac-HEW20 (RU100)	CH 36	5180	12.84	13.50	15	99.00
		CH 44	5200	12.94	13.50	15	
		CH 48	5240	13.00	13.50	15	
802.11ac-HEW40 (RU100)	CH 36	5180	12.66	14.00	15	99.00	
	CH 44	5200	13.31	14.00	15		
	CH 48	5240	13.19	14.00	15		
802.11ac-HEW20 (RU100)	CH 36	5180	13.11	13.50	15	99.00	
	CH 44	5200	13.21	14.00	15		
	CH 48	5240	13.11	14.00	15		
802.11ac-HEW20 (RU100)	CH 36	5180	13.04	13.50	15	99.00	
	CH 44	5200	13.15	13.50	15		
	CH 46	5240	13.11	13.50	15		
802.11ac-HEW40 (RU100)	CH 36	5180	13.06	13.50	15	99.00	
	CH 36	5180	12.97	13.50	15		
	CH 42	5210	12.97	13.50	15		

5.2GHz WLAN ANT 10

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
8.02GHz WLAN ANT 10	802.11a 6Mbps	CH 36	5180	12.36	13.00	15	100.00
		CH 44	5200	11.93	13.00	15	
		CH 48	5240	12.28	13.00	15	
	802.11n-HT20 MCS0	CH 36	5180	12.15	13.00	15	99.30
		CH 44	5200	12.34	13.00	15	
		CH 48	5240	12.72	13.50	15	
	802.11n-HT40 MCS0	CH 36	5180	12.94	13.50	15	99.30
		CH 46	5200	12.88	13.50	15	
		CH 36	5180	12.45	13.00	15	
	802.11ac-VHT20 MCS0	CH 44	5200	12.45	13.00	15	99.00
		CH 48	5240	12.72	13.50	15	
		CH 38	5190	12.66	13.00	15	
	802.11ac-VHT40 MCS0	CH 46	5200	12.59	13.00	15	99.00
		CH 48	5240	12.59	13.00	15	
		CH 42	5210	12.89	13.50	15	
	802.11ac-HEW20 (RU100)	CH 36	5180	12.45	13.00	15	99.00
		CH 44	5200	12.66	13.00	15	
		CH 48	5240	12.89	13.50	15	
802.11ac-HEW20 (RU100)	CH 36	5180	12.56	13.00	15	99.00	
	CH 44	5200	12.16	13.00	15		
	CH 48	5240	13.93	14.50	15		
802.11ac-HEW20 (RU100)	CH 36	5180	12.85	13.50	15	99.00	
	CH 44	5200	12.01	12.50	15		
	CH 48	5240	12.55	13.00	15		
802.11ac-HEW40 MCS0	CH 36	5180	12.79	13.50	15	99.00	
	CH 44	5200	12.81	13.50	15		
	CH 48	5240	12.86	13.50	15		
802.11ac-HEW40 MCS0	CH 36	5180	12.64	13.00	15	99.00	
	CH 46	5200	12.33	13.00	15		
	CH 42	5210	12.76	13.50	15		

5.2GHz WLAN ANT 8+10

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
S.2024 WLAN ANT #1-12	802.11a 6Mbps	CH 36	5180	15.68	16.00	15	100.00
		CH 44	5220	15.44	16.00	15	
		CH 48	5240	15.56	16.00	15	
	802.11n-HT20 MCS0	CH 36	5180	15.44	16.00	15	99.30
		CH 44	5220	15.56	16.00	15	
		CH 48	5240	15.80	16.50	15	
	802.11n-HT40 MCS0	CH 36	5180	16.02	16.50	15	99.30
		CH 44	5220	16.02	16.50	15	
		CH 48	5240	15.80	16.50	15	
	802.11ac-VHT20 MCS0	CH 44	5200	15.68	16.50	15	99.00
		CH 48	5240	15.91	16.50	15	
		CH 38	5190	15.91	16.50	15	
802.11ac-VHT40 MCS0	CH 44	5200	15.91	16.50	15	99.00	
	CH 48	5240	15.91	16.50	15		
	CH 42	5210	16.02	16.50	15		
802.11a HEW10G(40) 12	CH 36	5180	15.68	16.50	15	99.00	
	CH 44	5220	15.80	16.50	15		
	CH 48	5240	16.02	16.50	15		
802.11n HEW10G(40) 12	CH 36	5180	16.02	16.50	15	99.00	
	CH 44	5220	15.80	16.50	15		
	CH 48	5240	16.63	17.00	15		
802.11ac HEW10G(40) 12	CH 36	5180	16.02	16.50	15	99.00	
	CH 44	5220	15.68	16.50	15		
	CH 48	5240	16.02	16.50	15		
802.11ac HEW10G(40) 12	CH 36	5180	16.02	16.50	15	99.00	
	CH 44	5220	16.02	16.50	15		
	CH 48	5240	16.02	16.50	15		
802.11ac HEW10G(40) 12	CH 36	5180	16.02	16.50	15	99.00	
	CH 44	5220	16.02	16.50	15		
	CH 48	5240	16.02	16.50	15		
802.11ac HEW10G(40) 12	CH 36	5180	16.02	16.50	15	99.00	
	CH 44	5220	15.56	16.50	15		
	CH 42	5210	15.91	16.50	15		

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.53	8.33	8.49
	CH 39	2441	13.18	8.77	9.40
	CH 78	2480	11.74	7.81	8.40
Tune-up Limit			14.00	9.50	10.00
Duty Cycle %			96.27	76.80	77.07

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	
LE	CH 00	2402	7.12	4.55	
	CH 19	2440	8.20	5.88	
	CH 39	2480	7.30	4.87	
Tune-up Limit			8.50	6.50	
Duty Cycle %			62.68	62.02	

LTE Downlink Carrier Aggregation Conducted Power

Full Power for 2CC power verification

PCC					SCC				Power	
Band	BW	RB	UL Ch.	UL Freq.	BW	RB	DL Ch.	DL Freq.	Power	Rel. 8
	(MHz)	Offset		(MHz)	(MHz)	Offset		(MHz)	With	Power
intra-band CA (2CC)										
CA_2A-2A Ant 2	20	1#0	18700	1860	20	1#0	1100	1980	23.91	24.05
CA_2A-2A Ant 4	20	1#0	18700	1860	20	1#0	1100	1980	21.67	21.89
CA_4A-4A Ant 2	20	1#0	20050	1720	20	1#0	2300	2145	24.10	24.27
CA_4A-4A Ant 4	20	1#0	20050	1720	20	1#0	2300	2145	22.85	23.14
CA_5A-5A Ant 1	10	1#0	20450	829	10	1#0	2600	889	23.97	24.24

Reduced Power for 2CC power verification

PCC					SCC				Power	
Band	BW	RB	UL Ch.	UL Freq.	BW	RB	DL Ch.	DL Freq.	Power	Rel. 8
	(MHz)	Offset		(MHz)	(MHz)	Offset		(MHz)	With	Power
intra-band CA (2CC)										
CA_2A-2A Ant 2	20	1#0	18700	1860	20	1#0	1100	1980	22.37	22.74
CA_2A-2A Ant 4	20	1#0	18700	1860	20	1#0	1100	1980	18.41	18.63
CA_4A-4A Ant 4	20	1#0	20050	1720	20	1#0	2300	2145	19.43	19.71