



REPORT No. : SZ21020185S01

## Annex E2 Conducted Reduction Power

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		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	22.16	22.38	22.37	23.00	22.33	22.43	22.39	23.00
3GPP Rel 6	HSDPA Subtest-1	21.69	21.77	21.80	22.50	21.75	21.79	21.74	22.50
3GPP Rel 6	HSDPA Subtest-2	21.74	21.76	21.79	22.50	21.75	21.73	21.76	22.50
3GPP Rel 6	HSDPA Subtest-3	21.21	21.28	21.18	22.00	21.20	21.21	21.27	22.00
3GPP Rel 6	HSDPA Subtest-4	21.20	21.18	21.24	22.00	21.19	21.25	21.25	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.63	21.69	21.73	22.50	21.75	21.77	21.74	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.22	21.23	21.17	22.50	21.25	21.28	21.27	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.66	21.75	21.71	22.50	21.75	21.71	21.68	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.68	21.79	21.69	22.50	21.79	21.82	21.70	22.50
3GPP Rel 6	HSUPA Subtest-1	21.64	21.69	21.64	22.50	21.71	21.79	21.73	22.50
3GPP Rel 6	HSUPA Subtest-2	21.61	21.63	21.77	22.50	21.69	21.80	21.74	22.50
3GPP Rel 6	HSUPA Subtest-3	21.77	21.82	21.83	22.50	21.77	21.87	21.78	22.50
3GPP Rel 6	HSUPA Subtest-4	21.76	21.83	21.81	22.50	21.81	21.83	21.78	22.50
3GPP Rel 6	HSUPA Subtest-5	21.27	21.31	21.30	22.00	21.30	21.36	21.32	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.30	21.32	21.28	22.00	21.28	21.35	21.30	22.00
<b>Antenna</b>		Ant.2			Ant.2				

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		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	17.41	17.43	17.39	18.00	19.07	19.08	19.04	19.50
3GPP Rel 6	HSDPA Subtest-1	16.77	16.83	16.76	17.50	18.57	18.62	18.60	19.00
3GPP Rel 6	HSDPA Subtest-2	16.77	16.77	16.77	17.50	18.54	18.58	18.52	19.00
3GPP Rel 6	HSDPA Subtest-3	16.17	16.26	16.27	17.00	18.02	18.07	18.07	18.50
3GPP Rel 6	HSDPA Subtest-4	16.17	16.34	16.24	17.00	18.07	18.03	18.06	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	16.84	16.81	16.83	17.50	18.57	18.60	18.63	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	16.26	16.29	16.33	17.50	18.03	18.04	18.02	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.76	16.86	16.86	17.50	18.57	18.63	18.56	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.75	16.87	16.82	17.50	18.52	18.58	18.53	19.00
3GPP Rel 6	HSUPA Subtest-1	16.77	16.86	16.80	17.50	18.59	18.50	18.57	19.00
3GPP Rel 6	HSUPA Subtest-2	16.80	16.84	16.86	17.50	18.60	18.63	18.60	19.00
3GPP Rel 6	HSUPA Subtest-3	16.77	16.82	16.83	17.50	18.51	18.61	18.52	19.00
3GPP Rel 6	HSUPA Subtest-4	16.76	16.83	16.81	17.50	18.55	18.57	18.52	19.00
3GPP Rel 6	HSUPA Subtest-5	16.27	16.31	16.30	17.00	18.04	18.10	18.06	18.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.30	16.32	16.28	17.00	18.02	18.09	18.04	18.50
<b>Antenna</b>		Ant.4			Ant.4				

Band		CDMA2000 BC1			Tune-up Limit (dBm)
TX Channel		25	600	1175	
Frequency (MHz)		1851.25	1880	1908.75	
RC1 SO55		19.32	19.38	19.35	20.00
RC3 SO55		19.28	19.35	19.35	20.00
RC3 SO32 (F+SCH)		19.27	19.31	19.24	20.00
RC3 SO32 (+SCH)		19.26	19.28	19.30	20.00
RTAP 153.6Kbps		19.34	19.40	19.35	20.00
RETAP 4096Bits		19.26	19.31	19.24	20.00
<b>Antenna</b>		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	22.74	22.95	22.67	23.50
20	QPSK	1	49	22.57	22.73	22.50	
20	QPSK	1	99	22.55	22.58	22.45	
20	QPSK	50	0	21.84	21.95	21.80	
20	QPSK	50	24	21.86	21.77	21.70	22.50
20	QPSK	50	50	21.70	21.68	21.63	
20	QPSK	100	0	21.80	21.74	21.66	
20	16QAM	1	0	22.03	22.04	21.92	3.50
20	16QAM	1	49	21.92	21.89	21.87	
20	16QAM	1	99	22.06	21.94	21.79	
20	16QAM	50	0	20.83	20.88	20.72	3.50
20	16QAM	50	24	20.98	20.74	20.73	
20	16QAM	50	50	20.77	20.64	20.61	
20	16QAM	100	0	20.84	20.75	20.74	3.50
20	64QAM	1	0	20.81	20.93	20.93	
20	64QAM	1	49	20.77	20.90	20.86	
20	64QAM	1	99	20.84	20.84	21.15	3.50
20	64QAM	50	0	19.85	19.53	19.78	
20	64QAM	50	24	19.96	19.79	19.77	
20	64QAM	50	50	19.57	19.75	19.66	3.50
20	64QAM	100	0	19.63	19.71	19.85	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.62	22.83	22.55	23.50
15	QPSK	1	37	22.45	22.61	22.38	
15	QPSK	1	74	22.43	22.46	22.33	
15	QPSK	36	0	21.62	21.71	21.58	
15	QPSK	36	20	21.74	21.65	21.43	22.00
15	QPSK	36	39	21.58	21.56	21.51	
15	QPSK	75	0	21.68	21.62	21.54	
15	16QAM	1	0	21.51	21.62	21.50	
15	16QAM	1	37	21.40	21.37	21.35	22.00
15	16QAM	1	74	21.34	21.42	21.47	
15	16QAM	36	0	20.71	20.76	20.60	
15	16QAM	36	20	20.86	20.62	20.61	8.50
15	16QAM	36	39	20.65	20.52	20.49	
15	16QAM	75	0	20.72	20.63	20.62	
15	64QAM	1	0	20.69	20.81	20.81	
15	64QAM	1	37	20.65	20.78	20.74	8.50
15	64QAM	1	74	20.72	20.72	21.03	
15	64QAM	36	0	19.73	19.41	19.66	
15	64QAM	36	20	19.84	19.67	19.65	8.50
15	64QAM	36	39	19.45	19.63	19.54	
15	64QAM	75	0	19.51	19.59	19.73	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.49	22.70	22.42	23.50
10	QPSK	1	25	22.32	22.48	22.25	
10	QPSK	1	49	22.30	22.33	22.20	
10	QPSK	25	0	21.49	21.58	21.45	
10	QPSK	25	12	21.61	21.52	21.30	22.00
10	QPSK	25	25	21.45	21.43	21.38	
10	QPSK	50	0	21.55	21.49	21.41	
10	16QAM	1	0	21.38	21.49	21.37	
10	16QAM	1	25	21.27	21.24	21.22	22.00
10	16QAM	1	49	21.21	21.29	21.34	
10	16QAM	25	0	20.58	20.63	20.47	
10	16QAM	25	12	20.63	20.49	20.48	21.00
10	16QAM	25	25	20.52	20.39	20.36	
10	16QAM	50	0	20.59	20.50	20.49	
10	64QAM	1	0	20.56	20.68	20.68	
10	64QAM	1	25	20.52	20.65	20.61	21.00
10	64QAM	1	49	20.59	20.59	20.90	
10	64QAM	25	0	19.60	19.28	19.53	
10	64QAM	25	12	19.71	19.54	19.52	
10	64QAM	25	25	19.32	19.50	19.41	20.00
10	64QAM	50	0	19.38	19.46	19.60	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.38	22.59	22.31	23.00
5	QPSK	1	12	22.21	22.37	22.14	
5	QPSK	1	24	22.19	22.22	22.09	
5	QPSK	12	0	21.38	21.47	21.34	
5	QPSK	12	7	21.50	21.41	21.19	18.00
5	QPSK	12	13	21.34	21.32	21.27	
5	QPSK	25	0	21.44	21.38	21.30	
5	16QAM	1	0	21.27	21.38	21.26	18.00
5	16QAM	1	12	21.16	21.13	21.11	
5	16QAM	1	24	21.10	21.18	21.23	
5	16QAM	12	0	20.47	20.52	20.36	18.00
5	16QAM	12	7	20.52	20.38	20.37	
5	16QAM	12	13	20.41	20.28	20.25	
5	16QAM	25	0	20.48	20.39	20.38	
5	64QAM	1	0	20.45	20.57	20.57	18.00
5	64QAM	1	12	20.41	20.54	20.50	
5	64QAM	1	24	20.48	20.48	20.79	
5	64QAM	12	0	19.49	19.17	19.42	18.00
5	64QAM	12	7	19.60	19.43	19.41	
5	64QAM	12	13	19.21	19.39	19.30	
5	64QAM	25	0	19.27	19.35	19.49	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.26	22.47	22.19	23.00
3	QPSK	1	8	22.09	22.25	22.02	
3	QPSK	1	14	22.07	22.10	21.97	

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	18.63	18.67	18.47	19.00
20	QPSK	1	49	18.34	18.47	18.49	
20	QPSK	1	99	18.32	18.33	18.31	
20	QPSK	50	0	17.62	17.65	17.59	
20	QPSK	50	24	17.59	17.34	17.52	18.00
20	QPSK	50	50	17.51	17.45	17.49	
20	QPSK	100	0	17.34	17.39	17.38	
20	16QAM	1	0	17.74	17.71	17.62	18.00
20	16QAM	1	49	17.63	17.58	17.65	
20	16QAM	1	99	17.61	17.52	17.47	
20	16QAM	50	0	16.52	16.62	16.52	17.00
20	16QAM	50	24	16.67	16.41	16.39	
20	16QAM	50	50	16.59	16.53	16.46	
20	16QAM	100	0	16.56	16.55	16.49	17.00
20	64QAM	1	0	16.52	16.53	16.65	
20	64QAM	1	49	16.60	16.66	16.47	
20	64QAM	1	99	16.39	16.36	16.38	17.00
20	64QAM	50	0	15.65	15.58	15.58	
20	64QAM	50	24	15.59	15.53	15.51	
20	64QAM	50	50	15.37	15.38	15.43	16.00
20	64QAM	100	0	15.40	15.32	15.39	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.55	18.59	18.39	19.00
15	QPSK	1	37	18.26	18.39	18.41	
15	QPSK	1	74	18.24	18.25	18.23	
15	QPSK	36	0	17.54	17.57	17.51	
15	QPSK	36	20	17.51	17.26	17.44	18.00
15	QPSK	36	39	17.43	17.37	17.41	
15	QPSK	75	0	17.26	17.31	17.30	
15	16QAM	1	0	17.66	17.63	17.54	
15	16QAM	1	37	17.55	17.50	17.57	18.00
15	16QAM	1	74	17.53	17.44	17.39	
15	16QAM	36	0	16.44	16.54	16.44	
15	16QAM	36	20	16.59	16.33	16.31	17.00
15	16QAM	36	39	16.51	16.45	16.38	
15	16QAM	75	0	16.48	16.47	16.41	
15	64QAM	1	0	16.44	16.45	16.57	
15	64QAM	1	37	16.52	16.58	16.39	17.00
15	64QAM	1	74	16.31	16.28	16.30	
15	64QAM	36	0	15.57	15.50	15.50	
15	64QAM	36	20	15.51	15.45	15.43	16.00
15	64QAM	36	39	15.29	15.30	15.35	
15	64QAM	75	0	15.32	15.24	15.31	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.47	18.51	18.31	19.00
10	QPSK	1	25	18.18	18.31	18.33	
10	QPSK	1	49	18.16	18.17	18.15	
10	QPSK	25	0	17.46	17.49	17.43	
10	QPSK	25	12	17.43	17.18	17.36	18.00
10	QPSK	25	25	17.35	17.29	17.33	
10	QPSK	50	0	17.18	17.23	17.22	
10	16QAM	1	0	17.58	17.55	17.46	
10	16QAM	1	25	17.47	17.42	17.49	18.00
10	16QAM	1	49	17.45	17.36	17.31	
10	16QAM	25	0	16.36	16.46	16.36	
10	16QAM	25	12	16.51	16.25	16.23	17.00
10	16QAM	25	25	16.43	16.37	16.30	
10	16QAM	50	0	16.40	16.39	16.33	
10	64QAM	1	0	16.36	16.37	16.49	
10	64QAM	1	25	16.44	16.50	16.31	17.00
10	64QAM	1	49	16.23	16.20	16.22	

3	QPSK	8	0	21.26	21.35	21.22	20.00
3	QPSK	8	4	21.38	21.29	21.07	
3	QPSK	8	7	21.22	21.20	21.15	
3	QPSK	15	0	21.32	21.26	21.18	20.00
3	16QAM	1	0	21.15	21.26	21.14	
3	16QAM	1	8	21.04	21.01	20.99	
3	16QAM	1	14	20.98	21.06	21.11	20.00
3	16QAM	8	0	20.35	20.40	20.24	
3	16QAM	8	4	20.40	20.26	20.25	
3	16QAM	8	7	20.29	20.16	20.13	23.00
3	16QAM	15	0	20.36	20.27	20.26	
3	64QAM	1	0	22.07	22.34	22.50	
3	64QAM	1	8	22.28	22.39	22.28	22.00
3	64QAM	1	14	22.52	22.40	22.40	
3	64QAM	8	0	21.17	20.79	21.20	
3	64QAM	8	4	21.29	20.87	21.01	Tune-up limit (rRm)
3	64QAM	8	7	20.89	21.07	20.95	
3	64QAM	15	0	21.09	21.14	21.03	
Channel				18607	18900	19193	Tune-up limit (rRm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.10	22.31	22.03	23.00
1.4	QPSK	1	3	21.93	22.09	21.86	
1.4	QPSK	1	5	21.91	21.94	21.81	
1.4	QPSK	3	0	21.10	21.19	21.06	
1.4	QPSK	3	1	21.22	21.13	20.91	
1.4	QPSK	3	3	21.06	21.04	20.99	
1.4	QPSK	6	0	21.16	21.10	21.02	21.60
1.4	16QAM	1	0	20.99	21.10	20.98	
1.4	16QAM	1	3	20.88	20.85	20.83	
1.4	16QAM	1	5	20.82	20.90	20.95	21.60
1.4	16QAM	3	0	20.19	20.24	20.08	
1.4	16QAM	3	1	20.24	20.10	20.09	
1.4	16QAM	3	3	20.13	20.00	19.97	21.60
1.4	16QAM	6	0	20.20	20.11	20.10	
1.4	64QAM	1	0	20.17	20.29	20.29	
1.4	64QAM	1	3	20.13	20.26	20.22	21.00
1.4	64QAM	1	5	20.20	20.20	20.51	
1.4	64QAM	3	0	19.21	18.89	19.14	
1.4	64QAM	3	1	19.32	19.15	19.13	
1.4	64QAM	3	3	18.93	19.11	19.02	
1.4	64QAM	6	0	18.99	19.07	19.21	
1.4	64QAM	6	0	18.99	19.07	19.21	20.00

3	QPSK	8	0	17.29	17.32	17.26	18.00
3	QPSK	8	4	17.26	17.01	17.19	
3	QPSK	8	7	17.18	17.12	17.16	
3	QPSK	15	0	17.01	17.06	17.05	18.00
3	16QAM	1	0	17.41	17.38	17.29	
3	16QAM	1	8	17.30	17.25	17.32	
3	16QAM	1	14	17.28	17.19	17.14	17.00
3	16QAM	8	0	16.19	16.29	16.19	
3	16QAM	8	4	16.34	16.08	16.06	
3	16QAM	8	7	16.26	16.20	16.13	21.50
3	16QAM	15	0	16.23	16.22	16.16	
3	64QAM	1	0	16.19	16.20	16.32	
3	64QAM	1	8	16.27	16.33	16.14	20.50
3	64QAM	1	14	16.06	16.03	16.05	
3	64QAM	8	0	15.32	15.25	15.25	
3	64QAM	8	4	15.26	15.20	15.18	Tune-up limit (rRm)
3	64QAM	8	7	15.04	15.05	15.10	
3	64QAM	15	0	15.07	14.99	15.06	
Channel				18607	18900	19193	Tune-up limit (rRm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.21	18.25	18.05	19.00
1.4	QPSK	1	3	17.92	18.05	18.07	
1.4	QPSK	1	5	17.90	17.91	17.89	
1.4	QPSK	3	0	17.20	17.23	17.17	
1.4	QPSK	3	1	17.17	16.92	17.10	
1.4	QPSK	3	3	17.09	17.03	17.07	
1.4	QPSK	6	0	16.92	16.97	16.96	18.00
1.4	16QAM	1	0	17.32	17.29	17.20	
1.4	16QAM	1	3	17.21	17.16	17.23	
1.4	16QAM	1	5	17.19	17.10	17.05	18.00
1.4	16QAM	3	0	16.10	16.20	16.10	
1.4	16QAM	3	1	16.25	15.99	15.97	
1.4	16QAM	3	3	16.17	16.11	16.04	17.00
1.4	16QAM	6	0	16.14	16.13	16.07	
1.4	64QAM	1	0	16.10	16.11	16.23	
1.4	64QAM	1	3	16.18	16.24	16.05	16.50
1.4	64QAM	1	5	15.97	15.94	15.96	
1.4	64QAM	3	0	15.23	15.16	15.16	
1.4	64QAM	3	1	15.17	15.11	15.09	
1.4	64QAM	3	3	14.95	14.96	15.01	
1.4	64QAM	6	0	14.98	14.90	14.97	
1.4	64QAM	6	0	14.98	14.90	14.97	15.50

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	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.71	20.04	20.00	20.50
20	QPSK	1	49	19.61	19.54	19.56	
20	QPSK	1	99	19.59	19.60	19.58	
20	QPSK	50	0	18.89	18.91	18.86	19.50
20	QPSK	50	24	18.86	18.71	18.79	
20	QPSK	50	50	18.78	18.72	18.76	
20	QPSK	100	0	18.91	18.84	18.82	19.50
20	16QAM	1	0	19.21	18.98	18.89	
20	16QAM	1	49	19.10	18.95	18.92	
20	16QAM	1	99	18.88	18.79	18.74	18.50
20	16QAM	50	0	17.79	17.89	17.79	
20	16QAM	50	24	17.94	17.68	17.66	
20	16QAM	50	50	17.86	17.80	17.73	18.50
20	16QAM	100	0	17.83	17.82	17.76	
20	64QAM	1	0	17.79	17.80	18.06	
20	64QAM	1	49	17.87	18.03	17.74	18.50
20	64QAM	1	99	17.56	18.02	17.83	
20	64QAM	50	0	17.02	16.32	16.85	
20	64QAM	50	24	16.86	16.49	16.72	17.50
20	64QAM	50	50	16.54	16.75	16.79	
20	64QAM	100	0	16.67	16.77	16.78	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.89	19.93	19.63	20.50
15	QPSK	1	37	19.50	19.43	19.45	
15	QPSK	1	74	19.48	19.49	19.47	
15	QPSK	36	0	18.78	18.80	18.75	19.50
15	QPSK	36	20	18.75	18.60	18.68	
15	QPSK	36	39	18.67	18.61	18.65	
15	QPSK	75	0	18.80	18.73	18.71	19.50
15	16QAM	1	0	19.10	18.87	18.78	
15	16QAM	1	37	18.99	18.84	18.81	
15	16QAM	1	74	18.77	18.68	18.63	18.50
15	16QAM	36	0	17.68	17.78	17.68	
15	16QAM	36	20	17.83	17.57	17.55	
15	16QAM	36	39	17.75	17.69	17.62	18.50
15	16QAM	75	0	17.72	17.71	17.65	
15	64QAM	1	0	17.68	17.69	17.95	
15	64QAM	1	37	17.76	17.92	17.63	18.50
15	64QAM	1	74	17.45	17.91	17.72	
15	64QAM	36	0	16.91	16.21	16.74	
15	64QAM	36	20	16.75	16.38	16.61	17.50
15	64QAM	36	39	16.43	16.64	16.68	
15	64QAM	75	0	16.56	16.66	16.67	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.80	19.84	19.54	20.50
10	QPSK	1	25	19.41	19.34	19.36	
10	QPSK	1	49	19.39	19.40	19.38	
10	QPSK	25	0	18.69	18.71	18.66	19.50
10	QPSK	25	12	18.66	18.51	18.59	
10	QPSK	25	25	18.58	18.52	18.56	
10	QPSK	50	0	18.71	18.64	18.62	19.50
10	16QAM	1	0	19.01	18.78	18.69	
10	16QAM	1	25	18.90	18.75	18.72	
10	16QAM	1	49	18.68	18.59	18.54	18.50
10	16QAM	25	0	17.59	17.69	17.59	
10	16QAM	25	12	17.74	17.48	17.46	
10	16QAM	25	25	17.66	17.60	17.53	18.50
10	16QAM	50	0	17.63	17.62	17.56	
10	64QAM	1	0	17.59	17.60	17.86	
10	64QAM	1	25	17.67	17.83	17.54	18.50
10	64QAM	1	49	17.36	17.82	17.63	
10	64QAM	25	0	16.82	16.12	16.65	
10	64QAM	25	12	16.66	16.29	16.52	17.50
10	64QAM	25	25	16.34	16.55	16.59	
10	64QAM	50	0	16.47	16.57	16.58	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.69	19.73	19.43	20.50
5	QPSK	1	12	19.30	19.23	19.25	
5	QPSK	1	24	19.28	19.29	19.27	
5	QPSK	12	0	18.58	18.60	18.55	19.50
5	QPSK	12	7	18.55	18.40	18.48	
5	QPSK	12	13	18.47	18.41	18.45	
5	QPSK	25	0	18.60	18.53	18.51	19.50
5	16QAM	1	0	18.90	18.67	18.58	
5	16QAM	1	12	18.79	18.64	18.61	
5	16QAM	1	24	18.57	18.48	18.43	18.50
5	16QAM	12	0	17.48	17.58	17.48	
5	16QAM	12	7	17.63	17.37	17.35	
5	16QAM	12	13	17.55	17.49	17.42	18.50
5	16QAM	25	0	17.52	17.51	17.45	
5	64QAM	1	0	17.48	17.49	17.75	
5	64QAM	1	12	17.56	17.72	17.43	18.50
5	64QAM	1	24	17.25	17.71	17.52	
5	64QAM	12	0	16.71	16.01	16.54	
5	64QAM	12	7	16.55	16.18	16.41	17.50
5	64QAM	12	13	16.23	16.44	16.48	
5	64QAM	25	0	16.36	16.46	16.47	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	19.60	19.64	19.34	20.50
3	QPSK	1	8	19.21	19.14	19.16	
3	QPSK	1	14	19.19	19.20	19.18	

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	18.06	18.16	17.99	19.00
20	QPSK	1	49	17.65	17.85	17.79	
20	QPSK	1	99	17.87	17.86	17.92	
20	QPSK	50	0	17.01	17.03	17.00	17.50
20	QPSK	50	24	17.02	16.98	16.99	
20	QPSK	50	50	16.96	17.08	17.01	
20	QPSK	100	0	16.96	16.98	16.95	17.50
20	16QAM	1	0	16.74	16.99	17.16	
20	16QAM	1	49	16.94	17.42	17.10	
20	16QAM	1	99	17.36	17.37	17.35	16.50
20	16QAM	50	0	15.90	15.91	15.98	
20	16QAM	50	24	16.01	15.97	16.00	
20	16QAM	50	50	16.08	16.02	16.14	16.50
20	16QAM	100	0	15.98	15.98	16.03	
20	64QAM	1	0	15.99	15.95	15.85	
20	64QAM	1	49	15.92	15.96	16.03	16.50
20	64QAM	1	99	16.03	16.01	16.08	
20	64QAM	50	0	14.88	14.95	14.99	
20	64QAM	50	24	14.98	15.07	15.08	15.50
20	64QAM	50	50	15.09	15.05	14.94	
20	64QAM	100	0	14.95	15.02	15.02	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.97	18.07	17.90	18.50
15	QPSK	1	37	17.56	17.76	17.70	
15	QPSK	1	74	17.78	17.77	17.83	
15	QPSK	36	0	16.92	16.94	16.91	17.50
15	QPSK	36	20	16.93	16.89	16.90	
15	QPSK	36	39	16.87	16.99	16.92	
15	QPSK	75	0	16.87	16.89	16.86	17.50
15	16QAM	1	0	16.65	16.90	17.07	
15	16QAM	1	37	16.85	17.33	17.01	
15	16QAM	1	74	17.27	17.28	17.26	16.50
15	16QAM	36	0	15.81	15.82	15.89	
15	16QAM	36	20	15.92	15.88	15.91	
15	16QAM	36	39	15.99	15.93	16.05	16.50
15	16QAM	75	0	15.89	15.89	15.94	
15	64QAM	1	0	15.90	15.86	15.76	
15	64QAM	1	37	15.83	15.87	16.01	16.50
15	64QAM	1	74	15.94	16.12	15.99	
15	64QAM	36	0	14.79	14.86	14.90	
15	64QAM	36	20	14.89	14.98	14.99	15.50
15	64QAM	36	39	15.00	14.96	14.85	
15	64QAM	75	0	14.86	14.93	14.93	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.88	17.98	17.81	18.50
10	QPSK	1	25	17.47	17.67	17.61	
10	QPSK	1	49	17.69	17.68	17.74	
10	QPSK	25	0	16.83	16.85	16.82	17.50
10	QPSK	25	12	16.84	16.80	16.81	
10	QPSK	25	25	16.78	16.90	16.83	
10	QPSK	50	0	16.78	16.80	16.77	17.50
10	16QAM	1	0	16.56	16.81	16.98	
10	16QAM	1	25	16.76	17.24	16.92	
10	16QAM	1	49	17.18	17.19	17.17	16.50
10	16QAM	25	0	15.72	15.73	15.80	
10	16QAM	25	12	15.83	15.79	15.82	
10	16QAM	25	25	15.90	15.84	15.96	16.50
10	16QAM	50	0	15.80	15.80	15.85	
10	64QAM	1	0	15.81	15.77	15.87	
10	64QAM	1					

3	QPSK	8	0	18.49	18.51	18.46	19.50
3	QPSK	8	4	18.46	18.31	18.39	
3	QPSK	8	7	18.38	18.32	18.36	
3	QPSK	15	0	18.51	18.44	18.42	19.50
3	16QAM	1	0	18.81	18.58	18.49	
3	16QAM	1	8	18.70	18.55	18.52	
3	16QAM	1	14	18.48	18.39	18.34	18.00
3	16QAM	8	0	17.39	17.49	17.39	
3	16QAM	8	4	17.54	17.28	17.26	
3	16QAM	8	7	17.46	17.40	17.33	18.00
3	16QAM	15	0	17.43	17.42	17.36	
3	16QAM	1	0	17.39	17.40	17.66	
3	16QAM	1	8	17.47	17.63	17.34	17.00
3	16QAM	1	14	17.16	17.62	17.43	
3	16QAM	8	0	16.62	15.92	16.45	
3	16QAM	8	4	16.46	16.09	16.32	Tune-up limit (dBm)
3	16QAM	8	7	16.14	16.35	16.39	
3	16QAM	15	0	16.27	16.37	16.38	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.51	19.55	19.25	20.50
1.4	QPSK	1	3	19.12	19.05	19.07	
1.4	QPSK	1	5	19.10	19.11	19.09	
1.4	QPSK	3	0	18.40	18.42	18.37	
1.4	QPSK	3	1	18.37	18.22	18.30	
1.4	QPSK	3	3	18.29	18.23	18.27	
1.4	QPSK	6	0	18.42	18.35	18.33	19.00
1.4	16QAM	1	0	18.72	18.49	18.40	
1.4	16QAM	1	3	18.61	18.46	18.43	
1.4	16QAM	1	5	18.39	18.30	18.25	
1.4	16QAM	3	0	17.30	17.40	17.30	
1.4	16QAM	3	1	17.45	17.19	17.17	
1.4	16QAM	3	3	17.37	17.31	17.24	18.00
1.4	16QAM	6	0	17.34	17.33	17.27	
1.4	16QAM	1	0	17.30	17.31	17.57	
1.4	16QAM	1	3	17.38	17.54	17.25	
1.4	16QAM	1	5	17.07	17.53	17.34	
1.4	16QAM	3	0	16.53	15.83	16.36	
1.4	16QAM	3	1	16.37	16.00	16.23	17.00
1.4	16QAM	3	3	16.05	16.26	16.30	
1.4	16QAM	6	0	16.18	16.28	16.29	

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	21.19			22.00
10	QPSK	1	25	20.93			
10	QPSK	1	49	20.95			
10	QPSK	25	0	20.22			21.00
10	QPSK	25	12	20.20			
10	QPSK	25	25	20.16			
10	QPSK	50	0	20.20			21.00
10	16QAM	1	0	20.39			
10	16QAM	1	25	20.31			
10	16QAM	1	49	20.20			20.00
10	16QAM	25	0	19.36			
10	16QAM	25	12	19.24			
10	16QAM	25	25	19.21			20.00
10	16QAM	50	0	19.24			
10	64QAM	1	0	19.25			
10	64QAM	1	25	19.55			20.00
10	64QAM	1	49	19.16			
10	64QAM	25	0	18.41			
10	64QAM	25	12	18.36			19.00
10	64QAM	25	25	18.28			
10	64QAM	50	0	18.29			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	21.11	21.16	21.10	22.00
5	QPSK	1	12	21.03	20.93	20.99	
5	QPSK	1	24	20.98	21.03	21.08	
5	QPSK	12	0	20.31	20.21	20.16	21.00
5	QPSK	12	7	20.20	20.22	20.16	
5	QPSK	12	13	20.16	20.24	20.14	
5	QPSK	25	0	20.28	20.22	20.14	21.00
5	16QAM	1	0	20.47	20.41	20.35	
5	16QAM	1	12	20.32	20.32	20.34	
5	16QAM	1	24	20.37	20.37	20.38	20.00
5	16QAM	12	0	19.33	19.18	19.32	
5	16QAM	12	7	19.29	19.24	19.23	
5	16QAM	12	13	19.17	19.29	19.28	20.00
5	16QAM	25	0	19.19	19.23	19.19	
5	64QAM	1	0	19.41	19.41	19.27	
5	64QAM	1	12	19.27	19.27	19.26	20.00
5	64QAM	1	24	19.29	19.28	19.27	
5	64QAM	12	0	18.34	18.29	18.25	
5	64QAM	12	7	18.32	18.28	18.30	19.00
5	64QAM	12	13	18.20	18.25	18.17	
5	64QAM	25	0	18.19	18.22	18.27	

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	21.03			21.50
10	QPSK	1	25	21.08			
10	QPSK	1	49	20.28			
10	QPSK	25	0	20.42			21.00
10	QPSK	25	12	20.20			
10	QPSK	25	25	20.36			
10	QPSK	50	0	20.40			20.50
10	16QAM	1	0	20.34			
10	16QAM	1	25	20.35			
10	16QAM	1	49	20.31			20.00
10	16QAM	25	0	19.38			
10	16QAM	25	12	19.40			
10	16QAM	25	25	19.42			20.00
10	16QAM	50	0	19.24			
10	64QAM	1	0	19.53			
10	64QAM	1	25	19.43			20.00
10	64QAM	1	49	18.31			
10	64QAM	25	0	18.38			
10	64QAM	25	12	18.35			19.00
10	64QAM	25	25	18.32			
10	64QAM	50	0	18.42			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	21.11	21.16	21.12	21.50
5	QPSK	1	12	21.10	21.11	20.97	
5	QPSK	1	24	21.07	21.11	21.10	
5	QPSK	12	0	20.28	20.36	20.24	21.00
5	QPSK	12	7	20.17	20.40	20.35	
5	QPSK	12	13	20.34	20.26	20.29	
5	QPSK	25	0	20.29	20.34	20.35	21.00
5	16QAM	1	0	20.46	20.60	20.56	
5	16QAM	1	12	20.44	20.57	20.35	
5	16QAM	1	24	20.54	20.54	20.50	20.00
5	16QAM	12	0	19.34	19.36	19.35	
5	16QAM	12	7	19.32	19.42	19.34	
5	16QAM	12	13	19.35	19.38	19.19	20.00
5	16QAM	25	0	19.28	19.37	19.29	
5	64QAM	1	0	19.49	19.34	19.49	
5	64QAM	1	12	19.32	19.31	19.28	20.00
5	64QAM	1	24	19.42	19.40	19.39	
5	64QAM	12	0	18.36	18.36	18.33	
5	64QAM	12	7	18.26	18.33	18.39	19.00
5	64QAM	12	13	18.31	18.35	18.31	
5	64QAM	25	0	18.26	18.32	18.28	

LTE Band 2 (Ant.2) for EN-DC Body							
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	20.18	20.39	20.11	20.50
20	QPSK	1	49	20.01	20.17	19.94	
20	QPSK	1	99	19.99	20.02	19.89	
20	QPSK	50	0	19.28	19.39	19.24	19.50
20	QPSK	50	24	19.30	19.21	19.14	
20	QPSK	50	50	19.14	19.12	19.07	
20	QPSK	100	0	19.24	19.18	19.10	19.50
20	16QAM	1	0	19.47	19.48	19.36	
20	16QAM	1	49	19.36	19.33	19.31	
20	16QAM	1	99	19.45	19.38	19.23	19.00
20	16QAM	50	0	18.27	18.32	18.16	
20	16QAM	50	24	18.42	18.18	18.17	
20	16QAM	50	50	18.21	18.08	18.05	19.00
20	16QAM	100	0	18.28	18.19	18.18	
20	64QAM	1	0	18.25	18.37	18.37	
20	64QAM	1	49	18.21	18.34	18.30	19.00
20	64QAM	1	99	18.28	18.28	18.59	
20	64QAM	50	0	17.29	16.97	17.22	
20	64QAM	50	24	17.40	17.23	17.21	18.00
20	64QAM	50	50	17.01	17.19	17.10	
20	64QAM	100	0	17.07	17.15	17.29	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	20.06	20.27	19.99	20.50
15	QPSK	1	37	19.89	20.05	19.82	
15	QPSK	1	74	19.87	19.90	19.77	
15	QPSK	36	0	19.06	19.15	19.02	19.50
15	QPSK	36	20	19.18	19.09	18.87	
15	QPSK	36	39	19.02	19.00	18.95	
15	QPSK	75	0	19.12	19.06	18.98	19.50
15	16QAM	1	0	18.95	19.06	18.94	
15	16QAM	1	37	18.84	18.81	18.79	
15	16QAM	1	74	18.78	18.86	18.91	19.00
15	16QAM	36	0	18.15	18.20	18.04	
15	16QAM	36	20	18.30	18.06	18.05	
15	16QAM	36	39	18.09	17.96	17.93	19.00
15	16QAM	75	0	18.16	18.07	18.06	
15	64QAM	1	0	18.13	18.25	18.25	
15	64QAM	1	37	18.09	18.22	18.18	19.00
15	64QAM	1	74	18.16	18.16	18.47	
15	64QAM	36	0	17.17	16.85	17.10	
15	64QAM	36	20	17.28	17.11	17.09	18.00
15	64QAM	36	39	16.89	17.07	16.98	
15	64QAM	75	0	16.95	17.03	17.17	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.13	20.34	20.06	20.50
10	QPSK	1	25	19.96	20.12	19.89	
10	QPSK	1	49	19.94	19.97	19.84	
10	QPSK	25	0	19.13	19.22	19.09	19.50
10	QPSK	25	12	19.25	19.16	18.94	
10	QPSK	25	25	19.09	19.07	19.02	
10	QPSK	50	0	19.19	19.13	19.05	19.50
10	16QAM	1	0	19.02	19.13	19.01	
10	16QAM	1	25	18.91	18.88	18.86	
10	16QAM	1	49	18.85	18.93	18.98	19.00
10	16QAM	25	0	18.22	18.27	18.11	
10	16QAM	25	12	18.27	18.13	18.12	
10	16QAM	25	25	18.16	18.03	18.00	19.00
10	16QAM	50	0	18.23	18.14	18.13	
10	64QAM	1	0	18.20	18.32	18.32	
10	64QAM	1	25	18.16	18.29	18.25	19.00
10	64QAM	1	49	18.23	18.23	18.54	
10	64QAM	25	0	17.24	16.92	17.17	
10	64QAM	25	12	17.35	17.18	17.16	18.00
10	64QAM	25	25	16.96	17.14	17.05	
10	64QAM	50	0	17.02	17.10	17.24	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.02	20.23	19.95	20.50
5	QPSK	1	12	19.85	20.01	19.78	
5	QPSK	1	24	19.83	19.86	19.73	
5	QPSK	12	0	19.02	19.11	18.98	19.50
5	QPSK	12	7	19.14	19.05	18.83	
5	QPSK	12	13	18.98	18.96	18.91	
5	QPSK	25	0	19.08	19.02	18.94	19.50
5	16QAM	1	0	18.91	19.02	18.90	
5	16QAM	1	12	18.80	18.77	18.75	
5	16QAM	1	24	18.74	18.82	18.87	19.00
5	16QAM	12	0	18.11	18.16	18.00	
5	16QAM	12	7	18.16	18.02	18.01	
5	16QAM	12	13	18.05	17.92	17.89	19.00
5	16QAM	25	0	18.12	18.03	18.02	
5	64QAM	1	0	18.09	18.21	18.21	
5	64QAM	1	12	18.05	18.18	18.14	19.00
5	64QAM	1	24	18.12	18.12	18.43	
5	64QAM	12	0	17.13	16.81	17.06	
5	64QAM	12	7	17.24	17.07	17.05	18.00
5	64QAM	12	13	16.85	17.03	16.94	
5	64QAM	25	0	16.91	16.99	17.13	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.90	20.11	19.83	20.50
3	QPSK	1	8	19.73	19.89	19.66	
3	QPSK	1	14	19.71	19.74	19.61	

LTE Band 2 (Ant.4) for EN-DC Body							
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	18.47	18.51	18.31	19.00
20	QPSK	1	49	18.18	18.31	18.33	
20	QPSK	1	99	18.16	18.17	18.15	
20	QPSK	50	0	17.46	17.49	17.43	18.00
20	QPSK	50	24	17.43	17.18	17.36	
20	QPSK	50	50	17.35	17.29	17.33	
20	QPSK	100	0	17.18	17.23	17.22	18.00
20	16QAM	1	0	17.58	17.55	17.46	
20	16QAM	1	49	17.47	17.42	17.49	
20	16QAM	1	99	17.45	17.36	17.31	17.00
20	16QAM	50	0	16.36	16.46	16.36	
20	16QAM	50	24	16.51	16.25	16.23	
20	16QAM	50	50	16.43	16.37	16.30	17.00
20	16QAM	100	0	16.40	16.39	16.33	
20	64QAM	1	0	16.36	16.37	16.49	
20	64QAM	1	49	16.44	16.50	16.31	17.00
20	64QAM	1	99	16.23	16.20	16.22	
20	64QAM	50	0	15.49	15.42	15.42	
20	64QAM	50	24	15.43	15.37	15.35	16.00
20	64QAM	50	50	15.21	15.22	15.27	
20	64QAM	100	0	15.24	15.16	15.23	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.39	18.43	18.23	19.00
15	QPSK	1	37	18.10	18.23	18.25	
15	QPSK	1	74	18.08	18.09	18.07	
15	QPSK	36	0	17.38	17.41	17.35	18.00
15	QPSK	36	20	17.35	17.10	17.28	
15	QPSK	36	39	17.27	17.21	17.25	
15	QPSK	75	0	17.10	17.15	17.14	18.00
15	16QAM	1	0	17.50	17.47	17.38	
15	16QAM	1	37	17.39	17.34	17.41	
15	16QAM	1	74	17.37	17.28	17.23	17.00
15	16QAM	36	0	16.28	16.38	16.28	
15	16QAM	36	20	16.43	16.17	16.15	
15	16QAM	36	39	16.35	16.29	16.22	17.00
15	16QAM	75	0	16.32	16.31	16.25	
15	64QAM	1	0	16.28	16.29	16.41	
15	64QAM	1	37	16.36	16.42	16.23	17.00
15	64QAM	1	74	16.15	16.12	16.14	
15	64QAM	36	0	15.41	15.34	15.34	
15	64QAM	36	20	15.35	15.29	15.27	16.00
15	64QAM	36	39	15.13	15.14	15.19	
15	64QAM	75	0	15.16	15.08	15.15	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.31	18.35	18.15	19.00
10	QPSK	1	25	18.02	18.15	18.17	
10	QPSK	1	49	18.00	18.01	17.99	
10	QPSK	25	0	17.30	17.33	17.27	18.00
10	QPSK	25	12	17.27	17.02	17.20	
10	QPSK	25	25	17.19	17.13	17.17	
10	QPSK	50	0	17.02	17.07	17.06	18.00
10	16QAM	1	0	17.42	17.39	17.30	
10	16QAM	1	25	17.31	17.26	17.33	
10	16QAM	1	49	17.29	17.20	17.15	18.00
10	16QAM	25	0	16.20	16.30	16.20	
10	16QAM	25	12	16.35	16.09	16.07	
10	16QAM	25	25	16.27	16.21	16.14	17.00
10	16QAM	50	0	16.24	16.23	16.17	
10	64QAM	1	0	16.20	16.21	16.33	
10	64QAM	1</					



3	QPSK	8	0	18.90	18.99	18.86	19.50
3	QPSK	8	4	19.02	18.93	18.71	
3	QPSK	8	7	18.86	18.84	18.79	
3	QPSK	15	0	18.96	18.90	18.82	19.50
3	16QAM	1	0	18.79	18.90	18.78	
3	16QAM	1	8	18.68	18.65	18.63	
3	16QAM	1	14	18.62	18.70	18.75	19.00
3	16QAM	8	0	17.99	18.04	17.88	
3	16QAM	8	4	18.04	17.90	17.89	
3	16QAM	8	7	17.93	17.80	17.77	20.50
3	16QAM	15	0	18.00	17.91	17.90	
3	64QAM	1	0	19.71	19.98	20.14	
3	64QAM	1	8	19.92	20.03	19.92	19.00
3	64QAM	1	14	20.16	20.04	20.04	
3	64QAM	8	0	18.81	18.43	18.84	
3	64QAM	8	4	18.93	18.51	18.65	19.00
3	64QAM	8	7	18.53	18.71	18.59	
3	64QAM	15	0	18.73	18.78	18.67	
Channel				18607	18900	19193	Tune-up limit (rBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.74	19.95	19.67	20.50
1.4	QPSK	1	3	19.57	19.73	19.50	
1.4	QPSK	1	5	19.55	19.58	19.45	
1.4	QPSK	3	0	18.74	18.83	18.70	
1.4	QPSK	3	1	18.86	18.77	18.55	
1.4	QPSK	3	3	18.70	18.68	18.63	
1.4	QPSK	6	0	18.80	18.74	18.66	19.50
1.4	16QAM	1	0	18.63	18.74	18.62	
1.4	16QAM	1	3	18.52	18.49	18.47	
1.4	16QAM	1	5	18.46	18.54	18.59	19.00
1.4	16QAM	3	0	17.83	17.88	17.72	
1.4	16QAM	3	1	17.88	17.74	17.73	
1.4	16QAM	3	3	17.77	17.64	17.61	19.00
1.4	16QAM	6	0	17.84	17.75	17.74	
1.4	64QAM	1	0	17.81	17.93	17.93	
1.4	64QAM	1	3	17.77	17.90	17.86	18.00
1.4	64QAM	1	5	17.84	17.84	18.15	
1.4	64QAM	3	0	16.85	16.53	16.78	
1.4	64QAM	3	1	16.96	16.79	16.77	
1.4	64QAM	3	3	16.57	16.75	16.66	
1.4	64QAM	6	0	16.63	16.71	16.85	
Channel				18607	18900	19193	Tune-up limit (rBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.05	18.09	17.89	19.00
1.4	QPSK	1	3	17.76	17.89	17.91	
1.4	QPSK	1	5	17.74	17.75	17.73	
1.4	QPSK	3	0	17.04	17.07	17.01	
1.4	QPSK	3	1	17.01	16.76	16.94	
1.4	QPSK	3	3	16.93	16.87	16.91	
1.4	QPSK	6	0	16.76	16.81	16.80	18.00
1.4	16QAM	1	0	17.16	17.13	17.04	
1.4	16QAM	1	3	17.05	17.00	17.07	
1.4	16QAM	1	5	17.03	16.94	16.89	18.00
1.4	16QAM	3	0	15.94	16.04	15.94	
1.4	16QAM	3	1	16.09	15.83	15.81	
1.4	16QAM	3	3	16.01	15.95	15.88	16.50
1.4	16QAM	6	0	15.98	15.97	15.91	
1.4	64QAM	1	0	15.94	15.95	16.07	
1.4	64QAM	1	3	16.02	16.08	15.89	16.50
1.4	64QAM	1	5	15.81	15.78	15.80	
1.4	64QAM	3	0	15.07	15.00	15.00	
1.4	64QAM	3	1	15.01	14.95	14.93	
1.4	64QAM	3	3	14.79	14.80	14.85	
1.4	64QAM	6	0	14.82	14.74	14.81	
Channel				18607	18900	19193	Tune-up limit (rBm)
Frequency (MHz)				1850.7	1880	1909.3	

3	QPSK	8	0	17.13	17.16	17.10	18.00
3	QPSK	8	4	17.10	16.85	17.03	
3	QPSK	8	7	17.02	16.96	17.00	
3	QPSK	15	0	16.85	16.90	16.89	18.00
3	16QAM	1	0	17.25	17.22	17.13	
3	16QAM	1	8	17.14	17.09	17.16	
3	16QAM	1	14	17.12	17.03	16.98	17.00
3	16QAM	8	0	16.03	16.13	16.03	
3	16QAM	8	4	16.18	15.92	15.90	
3	16QAM	8	7	16.10	16.04	15.97	16.50
3	16QAM	15	0	16.07	16.06	16.00	
3	64QAM	1	0	16.03	16.04	16.16	
3	64QAM	1	8	16.11	16.17	15.98	15.50
3	64QAM	1	14	15.90	15.87	15.89	
3	64QAM	8	0	15.16	15.09	15.09	
3	64QAM	8	4	15.10	15.04	15.02	15.50
3	64QAM	8	7	14.88	14.89	14.94	
3	64QAM	15	0	14.91	14.83	14.90	
Channel				18607	18900	19193	Tune-up limit (rBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.05	18.09	17.89	19.00
1.4	QPSK	1	3	17.76	17.89	17.91	
1.4	QPSK	1	5	17.74	17.75	17.73	
1.4	QPSK	3	0	17.04	17.07	17.01	
1.4	QPSK	3	1	17.01	16.76	16.94	
1.4	QPSK	3	3	16.93	16.87	16.91	
1.4	QPSK	6	0	16.76	16.81	16.80	18.00
1.4	16QAM	1	0	17.16	17.13	17.04	
1.4	16QAM	1	3	17.05	17.00	17.07	
1.4	16QAM	1	5	17.03	16.94	16.89	18.00
1.4	16QAM	3	0	15.94	16.04	15.94	
1.4	16QAM	3	1	16.09	15.83	15.81	
1.4	16QAM	3	3	16.01	15.95	15.88	16.50
1.4	16QAM	6	0	15.98	15.97	15.91	
1.4	64QAM	1	0	15.94	15.95	16.07	
1.4	64QAM	1	3	16.02	16.08	15.89	16.50
1.4	64QAM	1	5	15.81	15.78	15.80	
1.4	64QAM	3	0	15.07	15.00	15.00	
1.4	64QAM	3	1	15.01	14.95	14.93	
1.4	64QAM	3	3	14.79	14.80	14.85	
1.4	64QAM	6	0	14.82	14.74	14.81	
Channel				18607	18900	19193	Tune-up limit (rBm)
Frequency (MHz)				1850.7	1880	1909.3	

LTE Band 2 (Ant.4) for EN-DC Head							
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	15.48	15.42	15.32	15.50
20	QPSK	1	49	15.19	15.32	15.34	
20	QPSK	1	99	15.17	15.18	15.16	
20	QPSK	50	0	14.40	14.45	14.44	14.50
20	QPSK	50	24	14.44	14.19	14.37	
20	QPSK	50	50	14.36	14.30	14.34	
20	QPSK	100	0	14.19	14.24	14.23	15.00
20	16QAM	1	0	14.59	14.56	14.47	
20	16QAM	1	49	14.48	14.43	14.50	
20	16QAM	1	99	14.46	14.37	14.32	14.00
20	16QAM	50	0	13.37	13.47	13.37	
20	16QAM	50	24	13.52	13.26	13.24	
20	16QAM	50	50	13.44	13.38	13.31	14.00
20	16QAM	100	0	13.41	13.40	13.34	
20	64QAM	1	0	13.37	13.38	13.50	
20	64QAM	1	49	13.45	13.51	13.32	14.00
20	64QAM	1	99	13.24	13.21	13.23	
20	64QAM	50	0	12.50	12.43	12.43	
20	64QAM	50	24	12.44	12.38	12.36	13.00
20	64QAM	50	50	12.22	12.23	12.28	
20	64QAM	100	0	12.25	12.17	12.24	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	15.40	15.34	15.24	15.50
15	QPSK	1	37	15.11	15.24	15.26	
15	QPSK	1	74	15.09	15.10	15.08	
15	QPSK	36	0	14.39	14.42	14.36	14.50
15	QPSK	36	20	14.36	14.11	14.29	
15	QPSK	36	39	14.28	14.22	14.26	
15	QPSK	75	0	14.11	14.16	14.15	15.00
15	16QAM	1	0	14.51	14.48	14.39	
15	16QAM	1	37	14.40	14.35	14.42	
15	16QAM	1	74	14.38	14.29	14.24	14.00
15	16QAM	36	0	13.29	13.39	13.29	
15	16QAM	36	20	13.44	13.18	13.16	
15	16QAM	36	39	13.36	13.30	13.23	14.00
15	16QAM	75	0	13.33	13.32	13.26	
15	64QAM	1	0	13.29	13.30	13.42	
15	64QAM	1	37	13.37	13.43	13.24	14.00
15	64QAM	1	74	13.16	13.13	13.15	
15	64QAM	36	0	12.42	12.35	12.35	
15	64QAM	36	20	12.36	12.30	12.28	13.00
15	64QAM	36	39	12.14	12.15	12.20	
15	64QAM	75	0	12.17	12.09	12.16	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	15.32	15.36	15.16	15.50
10	QPSK	1	25	15.03	15.16	15.18	
10	QPSK	1	49	15.01	15.02	15.00	
10	QPSK	25	0	14.31	14.34	14.28	14.50
10	QPSK	25	12	14.28	14.03	14.21	
10	QPSK	25	25	14.20	14.14	14.18	
10	QPSK	50	0	14.03	14.08	14.07	15.00
10	16QAM	1	0	14.43	14.40	14.31	
10	16QAM	1	25	14.32	14.27	14.34	
10	16QAM	1	49	14.30	14.21	14.16	14.00
10	16QAM	25	0	13.21	13.31	13.21	
10	16QAM	25	12	13.36	13.10	13.08	
10	16QAM	25	25	13.28	13.22	13.15	14.00
10	16QAM	50	0	13.25	13.24	13.18	
10	64QAM	1	0	13.21	13.22	13.34	
10	64QAM	1	25	13.29	13.35	13.16	14.00
10	64QAM	1	49	13.08	13.05	13.07	
10	64QAM	25	0	12.34	12.27	12.27	
10	64QAM	25	12	12.28	12.22	12.20	13.00
10	64QAM	25	25	12.06	12.07	12.12	
10	64QAM	50	0	12.09	12.01	12.08	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	15.24	15.28	15.08	15.50
5	QPSK	1	12	14.95	15.08	15.10	
5	QPSK	1	24	14.93	14.94	14.92	
5	QPSK	12	0	14.23	14.26	14.20	14.50
5	QPSK	12	7	14.20	13.95	14.13	
5	QPSK	12	13	14.12	14.06	14.10	
5	QPSK	25	0	13.95	14.00	13.99	15.00
5	16QAM	1	0	14.35	14.32	14.23	
5	16QAM	1	12	14.24	14.19	14.26	
5	16QAM	1	24	14.22	14.13	14.08	14.00
5	16QAM	12	0	13.13	13.23	13.13	
5	16QAM	12	7	13.28	13.02	13.00	
5	16QAM	12	13	13.20	13.14	13.07	14.00
5	16QAM	25	0	13.17	13.16	13.10	
5	64QAM	1	0	13.13	13.14	13.26	
5	64QAM	1	12	13.21	13.27	13.08	14.00
5	64QAM	1	24	13.00	12.97	12.99	
5	64QAM	12	0	12.26	12.19	12.19	
5	64QAM	12	7	12.20	12.14	12.12	13.00
5	64QAM	12	13	11.98	11.99	12.04	
5	64QAM	25	0	12.01	11.93	12.00	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	15.15	15.19	14.99	15.50
3	QPSK	1	8	14.86	14.99	15.01	
3	QPSK	1	14	14.84	14.85	14.83	

3	QPSK	8	0	14.14	14.17	14.11	14.50
3	QPSK	8	4	14.11	13.86	14.04	
3	QPSK	8	7	14.03	13.97	14.01	
3	QPSK	15	0	13.86	13.91	13.90	
3	16QAM	1	0	14.26	14.23	14.14	15.00
3	16QAM	1	8	14.15	14.10	14.17	
3	16QAM	1	14	14.13	14.04	13.99	14.00
3	16QAM	8	0	13.04	13.14	13.04	
3	16QAM	8	4	13.19	12.93	12.91	
3	16QAM	8	7	13.11	13.05	12.98	
3	16QAM	15	0	13.08	13.07	13.01	14.00
3	64QAM	1	0	13.04	13.05	13.17	
3	64QAM	1	8	13.12	13.18	12.99	
3	64QAM	1	14	12.91	12.88	12.90	
3	64QAM	8	0	12.17	12.10	12.10	13.00
3	64QAM	8	4	12.11	12.05	12.03	
3	64QAM	8	7	11.89	11.90	11.95	
3	64QAM	15	0	11.92	11.84	11.91	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.06	15.10	14.90	15.50
1.4	QPSK	1	3	14.77	14.90	14.92	
1.4	QPSK	1	5	14.75	14.76	14.74	
1.4	QPSK	3	0	14.05	14.08	14.02	
1.4	QPSK	3	1	14.02	13.77	13.95	
1.4	QPSK	3	3	13.94	13.88	13.92	
1.4	QPSK	6	0	13.77	13.82	13.81	14.50
1.4	16QAM	1	0	14.17	14.14	14.05	14.50
1.4	16QAM	1	3	14.06	14.01	14.08	
1.4	16QAM	1	5	14.04	13.95	13.90	
1.4	16QAM	3	0	12.95	13.05	12.95	
1.4	16QAM	3	1	13.10	12.84	12.82	
1.4	16QAM	3	3	13.02	12.96	12.89	
1.4	16QAM	6	0	12.99	12.98	12.92	14.00
1.4	64QAM	1	0	12.95	12.96	13.08	14.00
1.4	64QAM	1	3	13.03	13.09	12.90	
1.4	64QAM	1	5	12.82	12.79	12.81	
1.4	64QAM	3	0	12.08	12.01	12.01	
1.4	64QAM	3	1	12.02	11.96	11.94	
1.4	64QAM	3	3	11.80	11.81	11.86	
1.4	64QAM	6	0	11.83	11.75	11.82	13.00

5G NR n41(Ant.6) for Head EN-CD										
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	21.26	21.28	21.37	21.21	21.20	21.5	19.5
100		1	136	21.13	21.11	21.07	21.03	21.13		
100		1	272	21.03	21.02	21.11	21.34	21.03		
100		135	1	20.12	20.08	20.11	20.10	20.06		
100		135	67	19.80	19.98	19.93	19.76	19.87		
100		135	136	20.04	19.96	19.96	19.92	19.94		
100	270	0	20.01	20.04	19.83	19.86	19.88	20.5	18.5	
100	1	1	21.42	21.39	21.47	21.35	21.35			
100	1	136	21.37	21.36	21.32	21.25	21.40			
100	1	272	21.26	21.22	21.38	21.28	21.04			
100	135	1	20.31	20.35	20.41	20.34	20.32			
100	135	67	20.23	20.32	20.28	20.19	20.17			
100	135	136	20.20	20.21	20.25	20.33	20.22	20.5	17.5	
100	270	0	20.32	19.99	19.97	20.12	20.18			
100	1	1	19.21	19.27	19.23	19.36	19.29			
100	1	136	19.16	19.14	19.29	19.35	19.25			
100	1	272	19.11	19.13	19.28	19.21	19.40			
100	135	1	18.49	18.41	18.36	18.12	18.05			
100	135	67	18.35	18.44	18.29	18.16	18.22	19.5	15	
100	135	136	18.16	18.25	18.15	18.25	18.25			
100	270	0	18.13	18.21	18.20	18.14	18.17			
100	1	1	18.16	18.14	18.25	18.27	18.18			
100	1	136	18.04	18.25	18.19	18.16	18.25			
100	1	272	18.15	18.18	18.09	18.13	18.21			
100	135	1	17.06	18.13	18.24	18.06	18.10	19.5	15	
100	135	67	17.09	18.01	18.15	18.23	18.09			
100	135	136	17.14	18.04	18.25	18.16	18.13			
100	270	0	16.95	17.98	18.17	18.05	18.04			
100	1	1	16.96	16.78	16.88	16.72	16.85			
100	1	136	17.13	17.09	17.02	17.10	17.09			
100	135	1	15.94	16.01	16.11	16.08	16.06	16.5	15	
100	135	67	16.10	15.97	16.00	16.00	16.03			
100	135	136	16.18	16.09	16.13	16.09	16.04			
100	270	0	16.01	15.98	16.11	16.06	16.02			
100	1	1	16.01	16.01	16.01	16.01	16.01			
100	1	136	16.01	16.01	16.01	16.01	16.01			
Channel				511000	516000	519000	523000	527000		
Frequency (MHz)				2555	2575	2595	2615	2635		
80	DFT-s-OFDM P/2 BPSK	1	1	21.15	21.17	21.26	21.10	21.09	21.5	19.5
80		1	108	21.02	21.00	20.96	20.92	21.02		
80		1	215	20.92	20.91	21.00	21.23	20.92		
80		108	1	20.01	19.97	20.00	19.99	19.95		
80		108	54	19.69	19.87	19.82	19.65	19.76		
80		108	108	19.93	19.85	19.85	19.81	19.83		
80	216	0	19.90	19.93	19.72	19.75	19.77	20.5	18.5	
80	1	1	21.31	21.28	21.36	21.24	21.24			
80	1	108	21.26	21.25	21.21	21.14	21.29			
80	1	215	21.15	21.11	21.27	21.15	20.93			
80	108	1	20.20	20.24	20.30	20.23	20.21			
80	108	54	20.12	20.21	20.17	20.08	20.06			
80	108	108	20.09	20.10	20.14	20.22	20.11	20.5	17	
80	216	0	20.21	19.88	19.86	20.01	20.07			
80	1	1	19.10	19.16	19.12	19.25	19.18			
80	1	108	19.05	19.03	19.18	19.24	19.14			
80	1	215	19.00	19.02	19.17	19.10	19.29			
80	108	1	18.38	18.30	18.25	18.01	17.94			
80	108	54	18.24	18.33	18.18	18.05	18.11	19.5	15	
80	108	108	18.05	18.14	18.04	18.14	18.14			
80	216	0	18.02	18.10	18.09	18.03	18.06			
80	1	1	18.05	18.03	18.14	18.16	18.07			
80	1	108	17.93	18.14	18.08	18.05	18.14			
80	1	215	18.04	18.07	17.98	18.02	18.10			
80	108	1	16.95	16.92	16.13	17.95	17.99	17.5	15	
80	108	54	16.98	17.90	18.04	18.12	17.98			
80	108	108	17.03	17.93	18.14	18.05	18.02			
80	216	0	16.84	17.87	18.06	17.94	17.93			
80	1	1	16.85	16.67	16.77	16.61	16.74			
80	1	108	17.02	16.98	16.91	16.99	16.98			
80	1	215	17.10	17.02	16.98	16.97	16.96	16.5	15	
80	108	1	15.83	15.90	16.00	15.97	15.95			
80	108	54	15.99	15.86	15.89	15.89	15.92			
80	108	108	16.07	15.98	16.02	15.98	15.93			
80	216	0	15.90	15.87	16.00	15.95	15.91			
80	1	1	15.90	15.87	16.00	15.95	15.91			
Channel				509000	514000	519000	524000	529000		
Frequency (MHz)				2545	2570	2595	2620	2645		
60	DFT-s-OFDM P/2 BPSK	1	1	21.02	21.04	21.13	20.97	20.96	21.5	19.5
60		1	80	20.89	20.87	20.83	20.79	20.89		
60		1	160	20.79	20.78	20.87	21.10	20.79		
60		81	1	19.88	19.84	19.87	19.86	19.82		
60		81	40	19.56	19.74	19.69	19.52	19.63		
60		81	81	19.80	19.72	19.72	19.68	19.70		
60	162	0	19.77	19.80	19.59	19.62	19.64	20.5	17	
60	1	1	21.18	21.15	21.23	21.11	21.11			
60	1	80	21.13	21.12	21.08	21.01	21.06			
60	1	160	21.02	20.98	21.14	21.02	20.80			
60	81	1	20.07	20.11	20.17	20.10	20.08			
60	81	40	19.90	20.08	20.04	19.95	19.93			
60	81	81	19.96	19.97	20.01	20.09	19.98	20.5	15	
60	162	0	20.08	19.75	19.73	19.88	19.94			
60	1	1	18.97	19.03	18.99	19.12	19.05			
60	1	80	18.92	18.90	19.05	19.11	19.01			
60	1	160	18.87	18.89	19.04	18.97	19.16			
60	81	1	18.25	18.17	18.12	17.88	17.81			
60	81	40	18.11	18.20	18.05	17.92	17.98	19.5	15	
60	81	81	17.92	18.01	17.91	18.01	18.01			
60	162	0	17.89	17.97	17.96	17.90	17.93			
60	1	1	17.92	17.90	18.01	18.03	17.94			
60	1	80	17.80	18.01	17.95	17.92	18.01			
60	1	160	17.91	17.94	17.85	17.89	17.97			
60	81	1	16.82	17.89	18.00	17.82	17.86	19.5	15	
60	81	40	16.85	17.77	17.91	17.99	17.85			
60	81	81	16.90	17.80	18.01	17.92	17.89			
60	162	0	16.71	17.74	17.93	17.81	17.80			
60	1	1	16.72	16.54	16.64	16.48	16.61			
60	1	80	16.89	16.85	16.78	16.86	16.85			
60	1	160	16.97	16.89	16.85	16.84	16.83	16.5	15	
60	81	1	15.70	15.77	15.87	15.84	15.82			
60	81	40	15.86	15.73	15.76	15.76	15.79			
60	81	81	15.94	15.85	15.89	15.85	15.80			
60	162	0	15.77	15.74	15.87	15.82	15.78			
60	1	1	15.77	15.74	15.87	15.82	15.78			
Channel				507000	513000	519000	525000	531000		
Frequency (MHz)				2535	2565	2595	2625	2655		
40	DFT-s-OFDM P/2 BPSK	1	1	20.90	20.92	21.01	20.85	20.84	21.5	19.5
40		1	53	20.77	20.75	20.71	20.67	20.77		
40		1	105	20.67	20.66	20.75	20.98	20.67		
40		50	1	19.76	19.72	19.75	19.74	19.70		
40		50	25	19.44	19.62	19.57	19.40	19.51		
40		50	50	19.68	19.60	19.60	19.56	19.58		
40	100	0	19.65	19.68	19.47	19.50	19.52	20.5	14.5	

5G NR n41(Ant.6) for Head EN-CD										
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	18.76	18.88	18.90	18.82	18.79	19.5	19.5
100		1	136	18.60	18.54	18.72	18.63	19.11		
100		1	272	18.61	18.72	18.66	18.51	18.79		
100		135	1	18.64	18.75	18.77	18.58	18.72		
100		135	67	18.70	18.86	18.78	18.70	18.62		
100		135	136	18.48	18.35	19.02	18.91	18.87		
100	270	0	18.84	18.68	18.68	18.61	18.57	19.5	18.5	
100	1	1</								

40		1	1	21.06	21.03	21.11	20.99	20.99	
40		1	53	21.01	21.00	20.96	20.89	21.04	21.5
40	DFT-s-OFDM QPSK	1	105	20.90	20.86	21.02	20.90	20.68	
40		50	1	19.95	19.99	20.05	19.98	19.96	
40		50	25	19.87	19.96	19.92	19.83	19.81	20.5
40		50	50	19.84	19.85	19.89	19.97	19.86	
40		100	0	19.96	19.63	19.61	19.76	19.82	
40		1	1	18.85	18.91	18.87	18.00	18.93	
40	DFT-s-OFDM 16QAM	1	53	18.80	18.78	18.93	18.99	18.89	20.5
40		1	105	18.75	18.77	18.92	18.85	19.04	
40		50	1	18.13	18.05	18.00	17.76	17.69	
40		50	25	17.99	18.08	17.93	17.80	17.86	19.5
40		50	50	17.80	17.89	17.79	17.89	17.89	
40		100	0	17.77	17.85	17.84	17.78	17.81	
40		1	1	17.80	17.78	17.89	17.91	17.82	
40	DFT-s-OFDM 64QAM	1	53	17.68	17.89	17.83	17.80	17.89	19.5
40		1	105	17.79	17.82	17.73	17.77	17.85	
40		50	1	16.70	17.77	17.68	17.70	17.74	
40		50	25	16.73	17.65	17.79	17.67	17.73	17.5
40		50	50	16.78	17.68	17.89	17.80	17.77	
40		100	0	16.59	17.62	17.81	17.69	17.68	
40		1	1	16.60	16.42	16.52	16.36	16.49	
40		1	53	16.77	16.73	16.66	16.74	16.73	16.5
40	DFT-s-OFDM 256QAM	1	105	16.85	16.77	16.73	16.72	16.71	
40		50	1	15.58	15.65	15.75	15.72	15.70	
40		50	25	15.74	15.61	15.64	15.64	15.67	16.5
40		50	50	15.82	15.73	15.77	15.73	15.68	
40		100	0	15.65	15.62	15.75	15.70	15.66	
	Channel			505000	512000	519000	526000	533000	Tune-up limit
	Frequency (MHz)			2525	2560	2595	2630	2665	
20		1	1	20.79	20.81	20.90	20.74	20.73	21.5
20	DFT-s-OFDM Pi/2 BPSK	1	25	20.66	20.64	20.60	20.56	20.66	
20		1	49	20.56	20.55	20.64	20.87	20.56	
20		25	12	19.33	19.51	19.46	19.29	19.40	20.5
20		25	24	19.57	19.49	19.49	19.45	19.47	
20		50	0	19.54	19.57	19.36	19.39	19.41	
20		1	1	20.95	20.92	21.00	20.88	20.88	21.5
20	DFT-s-OFDM QPSK	1	25	20.90	20.89	20.85	20.78	20.93	
20		1	49	20.79	20.75	20.91	20.79	20.57	
20		25	1	19.84	19.88	19.94	19.87	19.85	
20		25	12	19.76	19.85	19.81	19.72	19.70	20.5
20		25	24	19.73	19.74	19.78	19.86	19.75	
20		50	0	19.85	19.52	19.50	19.65	19.71	
20		1	1	18.74	18.80	18.76	18.89	18.82	
20	DFT-s-OFDM 16QAM	1	25	18.69	18.67	18.82	18.88	18.78	20.5
20		1	49	18.64	18.66	18.81	18.74	18.93	
20		25	1	18.02	17.94	17.89	17.65	17.58	18.5
20		25	12	17.88	17.97	17.82	17.69	17.75	
20		25	24	17.69	17.78	17.66	17.78	17.78	
20		50	0	17.66	17.74	17.73	17.67	17.70	
20		1	1	17.69	17.67	17.78	17.80	17.71	18.5
20		1	25	17.57	17.78	17.72	17.69	17.78	
20	DFT-s-OFDM 64QAM	1	49	17.68	17.71	17.62	17.66	17.74	
20		25	1	16.59	17.66	17.77	17.59	17.63	
20		25	12	16.62	17.54	17.68	17.76	17.62	18.5
20		25	24	16.67	17.57	17.78	17.69	17.66	
20		50	0	16.48	17.51	17.70	17.58	17.57	
20		1	1	16.49	16.31	16.41	16.25	16.38	17
20		1	25	16.66	16.62	16.55	16.63	16.62	
20		1	49	16.74	16.66	16.82	16.61	16.60	
20	DFT-s-OFDM 256QAM	25	1	15.47	15.54	15.64	15.61	15.59	16.5
20		25	12	15.63	15.50	15.53	15.53	15.56	
20		25	24	15.71	15.62	15.66	15.62	15.57	
20		50	0	15.54	15.51	15.64	15.59	15.55	

Channel		Frequency (MHz)		505000	512000	519000	526000	533000	Tune-up limit
20		1	1	2525	2560	2595	2630	2665	
20		1	25	18.31	18.43	18.45	18.37	18.34	19
20	CP-OFDM QPSK	1	49	18.15	18.09	18.27	18.18	18.66	
20		25	1	18.16	18.27	18.21	18.06	18.34	
20		25	1	18.19	18.30	18.32	18.13	18.27	
20		25	12	18.25	18.41	18.33	18.25	18.17	19
20		25	24	18.03	17.99	18.17	18.06	18.13	
20		50	0	18.13	18.23	18.23	18.06	18.12	
20		1	1	17.59	17.69	17.71	17.49	17.59	18
20		1	25	17.64	17.58	17.59	17.40	17.33	
20		1	49	17.55	17.34	17.39	17.41	17.62	
20	CP-OFDM 16QAM	25	1	17.79	17.74	17.62	17.49	17.65	
20		25	12	17.57	17.27	17.59	17.64	17.55	18
20		25	24	17.66	17.72	17.67	17.69	17.60	
20		50	0	17.47	17.61	17.39	17.27	17.10	
20		1	1	16.46	16.34	16.47	16.42	16.44	17
20		1	25	16.36	16.55	16.50	16.36	16.23	
20	CP-OFDM 64QAM	1	49	16.55	16.36	16.45	16.48	16.30	
20		25	1	16.02	15.98	15.94	15.96	15.93	
20		25	12	16.15	15.99	15.88	16.20	16.08	17
20		25	24	16.05	16.07	16.10	16.01	16.10	
20		50	0	16.15	16.05	16.03	16.03	15.93	
20		1	1	14.06	14.23	14.16	14.13	14.05	15
20		1	25	14.07	13.90	14.00	14.15	13.88	
20	CP-OFDM 256QAM	1	49	13.69	13.80	13.77	13.85	13.41	
20		25	1	14.27	14.35	14.16	14.17	13.93	
20		25	12	14.12	14.26	14.01	14.01	14.04	14.5
20		25	24	14.05	14.18	14.07	13.99	13.89	
20		50	0	14.15	14.17	14.02	14.01	13.97	

				2515	
				2675	

5G NR n41 (Ant.5) for Head EN-DC										
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 Pi/2 BPSK	1	1	20.26	20.28	20.37	20.21	20.20	21	19
100		1	136	20.13	20.11	20.07	20.03	20.13		
100		1	272	20.03	20.02	20.11	20.34	20.03		
100		135	1	19.12	19.08	19.11	19.10	19.06		
100		135	67	18.80	18.98	18.93	18.76	18.87		
100		135	136	19.04	18.96	18.96	18.92	18.94		
100	DFT-s-OFDM QPSK	270	0	19.01	19.04	18.83	18.86	18.88	20.5	19
100		1	1	20.42	20.39	20.45	20.35	20.35		
100		1	136	20.37	20.36	20.32	20.25	20.40		
100		1	272	20.26	20.22	20.38	20.28	20.04		
100		135	1	19.31	19.35	19.41	19.34	19.32		
100		135	67	19.23	19.32	19.28	19.19	19.17		
100	DFT-s-OFDM 16QAM	135	136	19.20	19.21	19.25	19.33	19.22	20	19
100		270	0	19.32	18.99	18.97	19.12	19.18		
100		1	1	18.21	18.27	18.23	18.36	18.29		
100		1	136	18.16	18.14	18.29	18.35	18.25		
100		1	272	18.11	18.13	18.28	18.21	18.40		
100		135	1	17.49	17.41	17.36	17.12	17.05		
100	DFT-s-OFDM 64QAM	135	67	17.35	17.44	17.29	17.16	17.22	18	17
100		135	136	17.16	17.25	17.15	17.25	17.25		
100		270	0	17.13	17.21	17.20	17.14	17.17		
100		1	1	17.31	17.12	17.28	17.24	17.21		
100		1	136	17.04	17.25	17.19	17.16	17.25		
100		1	271	17.15	17.18	17.09	17.13	17.21		
100	DFT-s-OFDM 256QAM	135	1	16.06	17.13	17.24	17.06	17.10	18	14
100		135	67	16.09	17.01	17.15	17.23	17.09		
100		135	136	16.14	17.04	17.25	17.16	17.13		
100		270	0	15.95	16.98	17.17	17.05	17.04		
100		1	1	15.38	15.21	15.37	15.25	15.24		
100		1	136	15.20	15.16	15.09	15.17	15.16		
100	DFT-s-OFDM 512QAM	1	272	15.08	15.20	15.16	15.15	15.14	15	19
100		135	1	14.01	14.08	14.18	14.15	14.13		
100		135	67	14.17	14.04	14.07	14.07	14.10		
100		135	136	14.25	14.16	14.20	14.16	14.11		
100		270	0	14.08	14.05	14.18	14.13	14.09		
100		270	0	14.08	14.05	14.18	14.13	14.09		
Channel				511000	516000	519000	523000	527000		
Frequency (MHz)				2555	2575	2595	2615	2635		
80	DFT-s-OFDM Pi/2 BPSK	1	1	20.15	20.17	20.26	20.10	20.09	21	19
80		1	108	20.02	20.00	19.96	19.92	20.02		
80		1	215	19.92	19.91	20.00	20.23	19.92		
80		108	1	19.01	18.97	19.00	18.99	18.95		
80		108	54	18.69	18.87	18.82	18.65	18.76		
80		108	108	18.93	18.85	18.85	18.81	18.83		
80	DFT-s-OFDM QPSK	216	0	18.90	18.93	18.72	18.75	18.77	20.5	19
80		1	1	20.31	20.28	20.34	20.24	20.24		
80		1	108	20.26	20.25	20.21	20.14	20.29		
80		1	215	20.15	20.11	20.27	20.15	19.93		
80		108	1	19.20	19.24	19.30	19.23	19.21		
80		108	54	19.12	19.21	19.17	19.08	19.06		
80	DFT-s-OFDM 16QAM	108	108	19.09	19.10	19.14	19.22	19.11	21	19
80		216	0	19.21	18.88	18.86	19.01	19.07		
80		1	1	18.10	18.16	18.12	18.25	18.18		
80		1	108	18.05	18.03	18.18	18.24	18.14		
80		1	215	18.00	18.02	18.17	18.10	18.29		
80		108	1	17.38	17.30	17.25	17.01	16.94		
80	DFT-s-OFDM 64QAM	108	54	17.24	17.33	17.18	17.05	17.11	20	17
80		108	108	17.05	17.14	17.04	17.14	17.14		
80		216	0	17.02	17.10	17.09	17.03	17.06		
80		1	1	17.20	17.01	17.17	17.13	17.10		
80		1	108	16.93	17.14	17.08	17.05	17.14		
80		1	215	17.04	17.07	16.98	17.02	17.10		
80	DFT-s-OFDM 256QAM	108	1	15.95	17.02	17.13	16.95	16.99	18	14
80		108	54	15.98	16.90	17.04	17.12	16.98		
80		108	108	16.03	16.93	17.14	17.05	17.02		
80		216	0	15.94	16.87	17.06	16.94	16.93		
80		1	1	15.27	15.10	15.26	15.14	15.13		
80		1	108	15.09	15.05	14.98	15.06	15.05		
80	DFT-s-OFDM 512QAM	1	215	14.97	15.09	15.05	15.04	15.03	17.5	19
80		108	1	13.90	13.97	14.07	14.04	14.02		
80		108	54	14.06	13.93	13.96	13.96	13.99		
80		108	108	14.14	14.05	14.09	14.05	14.00		
80		216	0	13.97	13.94	14.07	14.02	13.98		
80		216	0	13.97	13.94	14.07	14.02	13.98		
Channel				509000	514000	519000	524000	529000		
Frequency (MHz)				2545	2570	2595	2620	2645		
60	DFT-s-OFDM Pi/2 BPSK	1	1	20.05	20.07	20.16	20.00	19.99	20.5	19
60		1	80	19.92	19.90	19.86	19.82	19.92		
60		1	160	19.82	19.81	19.90	20.13	19.82		
60		81	1	18.91	18.87	18.90	18.89	18.85		
60		81	40	18.59	18.77	18.72	18.55	18.66		
60		81	81	18.83	18.75	18.75	18.71	18.73		
60	DFT-s-OFDM QPSK	162	0	18.80	18.83	18.62	18.65	18.67	21	19
60		1	1	20.21	20.18	20.24	20.14	20.14		
60		1	80	20.45	20.15	20.11	20.04	20.19		
60		1	160	20.05	20.01	20.17	20.05	19.83		
60		81	1	19.10	19.14	19.20	19.13	19.11		
60		81	40	19.02	19.11	19.07	18.98	18.96		
60	DFT-s-OFDM 16QAM	81	81	18.99	19.00	19.04	19.12	19.01	19.5	14
60		162	0	19.11	18.78	18.76	18.91	18.97		
60		1	1	18.00	18.06	18.02	18.15	18.08		
60		1	80	17.95	17.93	18.08	18.14	18.04		
60		1	160	17.90	17.92	18.07	18.00	18.19		
60		81	1	17.28	17.20	17.15	16.91	16.84		
60	DFT-s-OFDM 64QAM	81	40	17.14	17.23	17.08	16.95	17.01	18.5	19
60		81	81	16.95	17.04	16.94	17.04	17.04		
60		162	0	16.92	17.00	16.99	16.93	16.96		
60		1	1	17.10	16.91	17.07	17.03	17.00		
60		1	80	16.83	17.04	16.98	16.95	17.04		
60		1	160	16.94	16.97	16.88	16.92	17.00		
60	DFT-s-OFDM 256QAM	81	1	15.85	16.92	17.03	16.85	16.89	17.5	18.5
60		81	40	15.88	16.80	16.94	17.02	16.88		
60		81	81	15.93	16.83	17.04	16.95	16.92		
60		162	0	15.74	16.77	16.96	16.84	16.83		
60		1	1	15.17	15.00	15.16	15.04	15.03		
60		1	80	14.99	14.95	14.88	14.96	14.95		
60	DFT-s-OFDM 512QAM	1	160	14.87	14.99	14.95	14.94	14.93	15.5	17
60		81	1	13.80	13.87	13.97	13.94	13.92		
60		81	40	13.96	13.83	13.86	13.86	13.89		
60		81	81	14.04	13.95	13.99	13.95	13.90		
60		162	0	13.87	13.84	13.97	13.82	13.88		
60		162	0	13.87	13.84	13.97	13.82	13.88		
Channel				507000	513000	519000	525000	531000		
Frequency (MHz)				2535	2565	2595	2625	2655		
40	DFT-s-OFDM Pi/2 BPSK	1	1	19.93	19.95	20.04	19.88	19.87	20.5	19
40		1	53	19.80	19.78	19.74	19.70	19.80		
40		1	105	19.70	19.69	19.78	20.01	19.70		
40		50	1	18.79	18.75	18.78	18.77	18.73		
40		50	25	18.47	18.65	18.60	18.43	18.54		
40		50	50	18.71	18.63	18.63	18.59	18.61		
40	DFT-s-OFDM QPSK	100	0	18.68	18.71	18.50	18.53	18.55	19.5	14
40		1	1	18.23	18.32	18.35	18.24	18.27		
40		1	53	17.96	17.90	18.08	17.99	18.47		
40		1	105	17.97	18.08	18.02	17.87	18.15		
40		50	1	18.00	18.11	18.13	17.94	18.08		
40		50	25	18.06	18.22	18.14	18.06	17.98		
40	DFT-s-OFDM 16QAM	50	50	17.84	17.71	18.38	18.27	18.23	19	18.5
40		100	0	18.20	18.04	18.04	17.97	17.93		
40		1	1	17.91	17.88	17.76	17.76	17.85		
40										

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit
40	1	1	20.09	20.06	20.12	20.02	20.02
40	1	53	20.04	20.03	19.99	19.92	20.07
40	1	105	19.93	19.89	20.05	19.93	19.71
40	50	1	18.98	19.02	19.08	19.01	18.99
40	50	25	18.90	18.99	18.95	18.86	18.84
40	50	50	18.87	18.88	18.92	19.00	18.89
40	100	0	18.99	18.66	18.64	18.79	18.85
40	1	1	17.85	17.94	17.90	18.03	17.96
40	1	53	17.83	17.81	17.96	18.02	17.92
40	1	105	17.78	17.80	17.95	17.88	18.07
40	50	1	17.16	17.08	17.03	16.79	16.72
40	50	25	17.02	17.11	16.96	16.83	16.89
40	50	50	16.83	16.92	16.82	16.92	16.92
40	100	0	16.80	16.88	16.87	16.81	16.84
40	1	1	16.98	16.79	16.95	16.91	16.88
40	1	53	16.71	16.92	16.86	16.83	16.92
40	1	105	16.82	16.85	16.76	16.80	16.88
40	50	1	15.73	16.80	16.91	16.73	16.77
40	50	25	15.76	16.68	16.82	16.80	16.76
40	50	50	15.81	16.71	16.92	16.83	16.80
40	100	0	16.62	16.65	16.84	16.72	16.71
40	1	1	15.06	14.88	15.04	14.92	14.91
40	1	53	14.87	14.83	14.76	14.84	14.83
40	1	105	14.75	14.87	14.83	14.82	14.81
40	50	1	13.68	13.75	13.85	13.82	13.80
40	50	25	13.84	13.71	13.74	13.74	13.77
40	50	50	13.92	13.83	13.87	13.83	13.78
40	100	0	13.75	13.72	13.85	13.80	13.76
Channel Frequency (MHz)		505000	512000	519000	526000	533000	Tune-up limit
20	1	1	19.80	19.82	19.91	19.75	19.74
20	1	25	19.67	19.65	19.61	19.57	19.67
20	1	49	19.57	19.56	19.65	19.88	19.57
20	25	1	18.66	18.62	18.65	18.64	18.60
20	25	12	18.34	18.52	18.47	18.30	18.41
20	25	24	18.58	18.50	18.50	18.46	18.48
20	50	0	18.55	18.58	18.37	18.40	18.42
20	1	1	19.96	19.93	19.99	19.99	19.89
20	1	25	19.91	19.90	19.86	19.79	19.94
20	1	49	19.80	19.76	19.92	19.80	19.58
20	25	1	18.85	18.89	18.95	18.88	18.86
20	25	12	18.77	18.86	18.82	18.73	18.71
20	25	24	18.74	18.75	18.79	18.87	18.76
20	50	0	18.86	18.53	18.51	18.66	18.72
20	1	1	17.75	17.81	17.77	17.90	17.83
20	1	25	17.70	17.68	17.83	17.89	17.79
20	1	49	17.65	17.67	17.82	17.75	17.94
20	25	1	17.03	16.95	16.90	16.66	16.59
20	25	12	16.89	16.98	16.83	16.70	16.76
20	25	24	16.70	16.79	16.69	16.79	16.79
20	50	0	16.67	16.75	16.74	16.68	16.71
20	1	1	16.85	16.66	16.82	16.78	16.75
20	1	25	16.58	16.79	16.73	16.70	16.79
20	1	49	16.69	16.72	16.63	16.67	16.75
20	25	1	15.60	16.67	16.78	16.60	16.64
20	25	12	15.63	16.55	16.69	16.77	16.63
20	25	24	15.68	16.58	16.79	16.70	16.67
20	50	0	15.49	16.52	16.71	16.59	16.58
20	1	1	14.92	14.76	14.91	14.79	14.78
20	1	25	14.74	14.70	14.63	14.71	14.70
20	1	49	14.62	14.74	14.70	14.69	14.68
20	25	1	13.55	13.62	13.72	13.69	13.67
20	25	12	13.71	13.58	13.61	13.61	13.64
20	25	24	13.79	13.70	13.74	13.70	13.65
20	50	0	13.62	13.59	13.72	13.67	13.63

Channel	Frequency (MHz)	505000	512000	519000	526000	533000	Tune-up limit
20	1	1	18.11	18.20	18.23	18.12	18.15
20	1	25	17.84	17.78	17.96	17.87	18.35
20	1	49	17.85	17.96	17.90	17.75	18.03
20	25	1	17.88	17.99	18.01	17.82	17.96
20	25	12	17.94	18.10	18.02	17.94	17.86
20	25	24	17.72	17.59	18.26	18.15	18.11
20	50	0	18.08	17.92	17.82	17.85	17.81
20	1	1	17.79	17.76	17.64	17.64	17.73
20	1	25	17.79	17.73	17.74	17.55	17.48
20	1	49	17.70	17.49	17.54	17.56	17.77
20	25	1	17.84	17.89	17.77	17.64	17.80
20	25	12	17.53	17.43	17.74	17.79	17.70
20	25	24	17.81	17.87	17.82	17.84	17.75
20	50	0	17.62	17.76	17.54	17.42	17.25
20	1	1	16.07	15.88	15.99	15.98	16.10
20	1	25	15.83	16.02	15.97	15.83	15.70
20	1	49	16.02	15.83	15.92	15.95	15.77
20	25	1	15.70	15.74	15.71	15.73	15.75
20	25	12	15.62	15.46	15.45	15.67	15.55
20	25	24	15.52	15.54	15.57	15.48	15.57
20	50	0	15.62	15.52	15.50	15.50	15.40
20	1	1	13.10	13.13	13.23	13.25	13.11
20	1	25	13.06	12.89	12.90	13.14	12.87
20	1	49	12.68	12.79	12.76	12.84	12.40
20	25	1	13.26	13.34	13.15	13.16	12.92
20	25	12	13.11	13.25	13.00	13.00	13.03
20	25	24	13.04	13.17	13.06	12.98	12.88
20	50	0	13.14	13.16	13.01	13.00	12.96

2515
2675

5G NR n41 (Ant.5) for Body EN-DC													
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 Pi/2 BPSK	1	1	23.48	23.64	23.65	23.70	23.59	24	23			
100		1	136	23.47	23.34	23.42	23.63	23.61					
100		1	272	23.44	23.34	23.41	23.38	23.42					
100		135	1	22.90	22.81	22.93	22.92	22.91					
100		135	67	22.89	22.73	22.71	22.89	22.76					
100		135	136	22.70	22.76	22.72	22.68	22.67					
100	DFT-s-OFDM QPSK	1	1	23.67	23.53	23.68	23.57	23.51	23.5	23			
100		1	136	23.45	23.48	23.68	23.69	23.67					
100		1	272	23.67	23.53	23.68	23.57	23.51					
100		135	1	23.06	22.96	23.34	23.12	23.10					
100		135	67	22.99	23.09	22.99	23.00	22.96					
100		135	136	22.91	22.94	22.93	22.79	22.90					
100	DFT-s-OFDM 16QAM	1	1	22.86	22.81	22.89	22.95	22.91	23	23			
100		1	136	22.65	22.57	22.67	22.63	22.65					
100		1	272	22.63	22.53	22.71	22.57	22.60					
100		135	1	22.50	22.50	22.53	22.61	22.48					
100		135	67	22.48	22.42	22.60	22.41	22.42					
100		135	136	22.52	22.43	22.52	22.43	22.25					
100	DFT-s-OFDM 64QAM	1	1	21.56	21.54	21.65	21.67	21.58	22	22			
100		1	136	21.44	21.65	21.59	21.56	21.65					
100		1	271	21.55	21.58	21.49	21.53	21.61					
100		135	1	21.46	21.53	21.64	21.46	21.50					
100		135	67	21.49	21.41	21.55	21.63	21.49					
100		135	136	21.45	21.44	21.65	21.56	21.53					
100	DFT-s-OFDM 256QAM	1	1	18.81	18.63	18.63	18.65	18.70	19	19			
100		1	136	18.68	18.54	18.57	18.55	18.74					
100		1	272	18.46	18.48	18.54	18.43	18.62					
100		135	1	17.79	17.86	17.96	17.83	17.91					
100		135	67	17.95	17.82	17.85	17.85	17.88					
100		135	136	18.03	17.94	17.98	17.94	17.89					
100	Channel			511000	516000	519000	523000	527000	24	23.5			
Frequency (MHz)				2555	2575	2595	2615	2635					
80		DFT-s-OFDM Pi/2 BPSK	1	1	23.36	23.52	23.53	23.58			23.47	23.5	23
80			1	108	23.35	23.22	23.30	23.51			23.40		
80			1	215	23.32	23.22	23.29	23.26			23.30		
80			108	1	22.76	22.69	22.81	22.80			22.79		
80	108		54	22.77	22.61	22.59	22.77	22.64					
80	108		108	22.58	22.64	22.60	22.56	22.55					
80	DFT-s-OFDM QPSK	1	1	23.50	23.54	23.63	23.54	23.62	24	23.5			
80		1	108	23.33	23.36	23.56	23.57	23.55					
80		1	215	23.55	23.41	23.56	23.45	23.39					
80		108	1	22.94	22.84	23.00	23.00	22.98					
80		108	54	22.87	22.97	22.87	22.88	22.84					
80		108	108	22.79	22.82	22.81	22.67	22.78					
80	DFT-s-OFDM 16QAM	1	1	22.74	22.69	22.77	22.83	22.79	24	23			
80		1	108	22.53	22.45	22.55	22.51	22.53					
80		1	215	22.51	22.41	22.59	22.45	22.48					
80		108	1	22.38	22.38	22.41	22.49	22.36					
80		108	54	22.36	22.30	22.48	22.29	22.30					
80		108	108	22.40	22.31	22.40	22.31	22.13					
80	DFT-s-OFDM 64QAM	1	1	21.44	21.42	21.53	21.55	21.46	22	22			
80		1	108	21.32	21.53	21.47	21.44	21.53					
80		1	215	21.43	21.46	21.37	21.41	21.49					
80		108	1	21.34	21.41	21.52	21.34	21.38					
80		108	54	21.37	21.29	21.43	21.41	21.37					
80		108	108	21.33	21.32	21.53	21.44	21.41					
80	DFT-s-OFDM 256QAM	1	1	18.69	18.51	18.51	18.53	18.58	24	18.5			
80		1	108	18.56	18.42	18.45	18.43	18.62					
80		1	215	18.34	18.36	18.42	18.31	18.50					
80		108	1	17.67	17.74	17.84	17.81	17.79					
80		108	54	17.83	17.70	17.73	17.73	17.76					
80		108	108	17.91	17.82	17.86	17.82	17.77					
80	Channel			509000	514000	519000	524000	529000	24	23			
Frequency (MHz)				2545	2570	2595	2620	2645					
60		DFT-s-OFDM Pi/2 BPSK	1	1	23.23	23.39	23.40	23.45			23.34	23	23
60			1	80	23.22	23.09	23.17	23.38			23.36		
60			1	160	23.19	23.09	23.16	23.13			23.17		
60			81	1	22.65	22.56	22.68	22.67			22.66		
60	81		40	22.64	22.48	22.46	22.64	22.51					
60	81		81	22.45	22.51	22.47	22.43	22.42					
60	DFT-s-OFDM QPSK	1	1	22.59	22.64	22.47	22.54	22.52	24	23			
60		1	80	23.37	23.41	23.50	23.41	23.49					
60		1	160	23.30	23.23	23.43	23.41	23.37					
60		81	1	22.81	22.71	22.87	22.87	22.85					
60		81	40	22.74	22.84	22.74	22.75	22.71					
60		81	81	22.66	22.69	22.68	22.54	22.65					
60	DFT-s-OFDM 16QAM	1	1	22.61	22.56	22.64	22.70	22.66	24	23			
60		1	80	22.36	22.42	22.51	22.40	22.44					
60		1	160	22.38	22.28	22.42	22.38	22.40					
60		81	1	22.25	22.25	22.28	22.36	22.23					
60		81	40	22.23	22.17	22.35	22.16	22.17					
60		81	81	22.27	22.18	22.27	22.18	22.00					
60	DFT-s-OFDM 64QAM	1	1	22.20	22.15	22.09	22.07	22.06	22	22			
60		1	80	21.31	21.29	21.40	21.42	21.33					
60		1	160	21.19	21.40	21.34	21.31	21.40					
60		81	1	21.30	21.33	21.24	21.28	21.36					
60		81	1	21.21	21.28	21.39	21.21	21.25					
60		81	40	21.24	21.16	21.30	21.38	21.24					
60	DFT-s-OFDM 256QAM	1	1	18.56	18.38	18.38	18.40	18.45	24	18.5			
60		1	80	18.43	18.29	18.32	18.30	18.49					
60		1	160	18.21	18.23	18.29	18.18	18.37					
60		81	1	17.54	17.61	17.71	17.68	17.66					
60		81	40	17.70	17.57	17.60	17.60	17.63					
60		81	81	17.78	17.69	17.73	17.69	17.64					
60	Channel			507000	513000	519000	525000	531000	24	23			
Frequency (MHz)				2535	2565	2595	2625	2655					
40		DFT-s-OFDM Pi/2 BPSK	1	1	23.13	23.29	23.30	23.35			23.24	23	23
40			1	53	23.12	22.99	23.07	23.28			23.26		
40			1	105	23.09	22.99	23.06	23.03			23.07		
40			50	1	22.55	22.46	22.58	22.57			22.56		
40	50		25	22.54	22.38	22.36	22.54	22.41					
40	50		50	22.35	22.41	22.37	22.33	22.32					
40	Channel			509000	514000	519000	524000	529000	24	23			
Frequency (MHz)				2545	2570	2595	2620	2645					
40		DFT-s-OFDM QPSK	1	1	22.27	22.21	22.21	22.21			22.20	23	23
40			1	53	22.04	21.98	22.16	22.07			22.26		
40			1	105	22.05	22.16	22.10	21.95			22.23		
40			50	1	22.08	22.19	22.21	22.02			22.16		
40	50		25	22.14	22.30	22.22	22.14	22.06					
40	50		50	21.92	21.79	22.46	22.35	22.31					
40	DFT-s-OFDM 16QAM	1	1	22.28	22.12	22.12	22.05	22.01	21	21			
40		1	1	20.66	20.73	20.74	20.72	20.69					
40		1	53	20.73	20.77	20.78	20.59	20.52					
40		1	105	20.64	20.53	20.58	20.60	20.81					
40		50	1	20.67	20.73	20.81	20.68	20.66					
40		50	25	20.57	20.47	20.78	20.83	20.74					
40	DFT-s-OFDM 64QAM	1	1	20.65	20.71	20.76	20.78	20.79	21.5	21.5			
40		1	80	20.66	20.70	20.58	20.46	20.29					
40		1	160	17.32	17.37	17.34	17.23	17.25					
40		1	53	17.21	17.40	17.35	17.21	17.08					
40		1	105	17.40	17.21	17.30	17.33	17.15					
40		50	1	16.87	16.83	16.79	16.81	16.78					
40	Channel			507000	513000	519000	525000	531000	21.5	21.5			
Frequency (MHz)				2535	2565	2595	2625	2655					
40		DFT-s-OFDM QPSK	1	1	17.05	16.90	16.96	16.86			16.95	21.5	21.5
40			1	53	17.05	16.90	16.96	16.86			16.95		
40			1	105	14.51	14.25	14.44	14.50			14.31		
40			1	53	14.39	14.22	14.32	14.47			14.20		
40	1		105	14.01	14.12	14.09	14.17	13.73					



40	DFT-s-OFDM QPSK	1	1	23.27	23.31	23.40	23.31	23.39	24	
40		1	53	23.10	23.13	23.33	23.34	23.32		
40		1	105	23.32	23.18	23.33	23.22	23.16		
40		50	1	22.71	22.61	22.77	22.77	22.75		
40		50	25	22.64	22.74	22.64	22.65	22.61		
40	DFT-s-OFDM 16QAM	50	50	22.56	22.59	22.58	22.44	22.55		
40		100	0	22.51	22.46	22.54	22.60	22.56		
40		1	1	22.25	22.32	22.41	22.30	22.34		
40		1	53	22.30	22.22	22.32	22.28	22.30		
40		1	105	22.28	22.18	22.36	22.22	22.25		
40	DFT-s-OFDM 64QAM	50	1	22.15	22.15	22.18	22.26	22.13		
40		50	25	22.13	22.07	22.25	22.06	22.07		
40		50	50	22.17	22.08	22.17	22.08	21.90		
40		100	0	22.10	22.05	21.99	21.97	21.96		
40		1	1	21.21	21.19	21.30	21.32	21.23		
40	DFT-s-OFDM 256QAM	1	53	21.09	21.30	21.24	21.21	21.30		
40		1	105	21.20	21.23	21.14	21.18	21.26		
40		50	1	21.11	21.18	21.29	21.11	21.15		
40		50	25	21.14	21.06	21.20	21.28	21.14		
40		50	50	21.10	21.09	21.30	21.21	21.18		
40	DFT-s-OFDM 256QAM	100	0	21.00	21.03	21.22	21.10	21.09		
40		1	1	18.46	18.28	18.28	18.30	18.35		
40		1	53	18.33	18.19	18.22	18.20	18.39		
40		1	105	18.11	18.13	18.19	18.08	18.27		
40		50	1	17.44	17.51	17.61	17.58	17.56		
40	DFT-s-OFDM 256QAM	50	25	17.60	17.47	17.50	17.50	17.53		
40		50	50	17.68	17.59	17.63	17.59	17.54		
40		100	0	17.51	17.48	17.61	17.56	17.52		
Channel Frequency (MHz)				505000	512000	519000	526000	533000	Tune-up limit	
				2525	2560	2595	2630	2665		
20	DFT-s-OFDM Pi/2 BPSK	1	1	23.01	23.17	23.18	23.23	23.12	24	
20		1	25	23.00	22.87	22.95	23.16	23.14		
20		1	49	22.97	22.87	22.94	22.91	22.95		
20		25	1	22.43	22.34	22.46	22.45	22.44		
20		25	12	22.42	22.26	22.24	22.42	22.29		
20	DFT-s-OFDM QPSK	25	24	22.23	22.29	22.25	22.21	22.20		
20		50	0	22.37	22.42	22.25	22.32	22.30		
20		1	1	23.15	23.19	23.28	23.19	23.27		
20		1	25	22.98	23.01	23.21	23.22	23.20		
20		1	49	23.20	23.06	23.21	23.10	23.04		
20	DFT-s-OFDM 16QAM	25	1	22.59	22.49	22.65	22.65	22.63		
20		25	12	22.52	22.62	22.62	22.53	22.49		
20		25	24	22.44	22.47	22.46	22.32	22.43		
20		50	0	22.39	22.34	22.42	22.48	22.44		
20		1	1	22.14	22.20	22.29	22.18	22.22		
20	DFT-s-OFDM 16QAM	1	25	22.18	22.10	22.20	22.16	22.18		
20		1	49	22.16	22.06	22.24	22.10	22.13		
20		25	1	22.03	22.03	22.06	22.14	22.01		
20		25	12	22.01	21.95	22.13	21.94	21.95		
20		25	24	22.05	21.96	22.05	21.96	21.78		
20	DFT-s-OFDM 64QAM	50	0	21.98	21.93	21.87	21.85	21.84		
20		1	1	21.09	21.07	21.18	21.20	21.11		
20		1	25	20.97	21.18	21.12	21.09	21.18		
20		1	49	21.06	21.11	21.02	21.06	21.14		
20		25	1	20.99	21.06	21.17	20.99	21.03		
20	DFT-s-OFDM 256QAM	25	12	21.02	20.94	21.08	21.16	21.02		
20		25	24	20.98	20.97	21.18	21.09	21.06		
20		50	0	20.88	20.91	21.10	20.98	20.97		
20		1	1	18.34	18.16	18.16	18.18	18.23		
20		1	25	18.21	18.07	18.10	18.08	18.27		
20	DFT-s-OFDM 256QAM	1	49	17.99	18.01	18.07	17.96	18.15		
20		25	1	17.32	17.39	17.49	17.46	17.44		
20		25	12	17.48	17.35	17.38	17.38	17.41		
20		25	24	17.56	17.47	17.51	17.47	17.42		
20		50	0	17.39	17.36	17.49	17.44	17.40		

Channel		Frequency (MHz)		505000	512000	519000	526000	533000	Tune-up limit
20	CP-OFDM QPSK	1	1	22.17	22.11	22.29	22.14	22.10	22.5
20		1	25	21.94	21.88	22.06	21.97	22.16	
20		1	49	21.95	22.06	22.00	21.85	22.13	
20		25	1	21.98	22.09	22.11	21.92	22.06	
20		25	12	22.04	22.20	22.12	22.04	21.96	
20	CP-OFDM 16QAM	25	24	21.82	21.69	22.36	22.25	22.21	
20		50	0	22.18	22.02	22.02	21.95	21.91	
20		1	1	20.56	20.63	20.64	20.62	20.59	
20		1	25	20.63	20.67	20.68	20.49	20.42	
20		1	49	20.54	20.43	20.48	20.50	20.71	
20	CP-OFDM 64QAM	25	1	20.57	20.63	20.71	20.58	20.56	
20		25	12	20.47	20.37	20.68	20.73	20.64	
20		25	24	20.55	20.61	20.66	20.68	20.69	
20		50	0	20.56	20.60	20.48	20.36	20.19	
20		1	1	17.22	17.27	17.24	17.13	17.15	
20	CP-OFDM 256QAM	1	25	17.11	17.30	17.25	17.11	16.98	
20		1	49	17.30	17.11	17.20	17.23	17.05	
20		25	1	16.77	16.73	16.69	16.71	16.68	
20		25	12	16.90	16.74	16.63	16.95	16.83	
20		25	24	16.80	16.82	16.85	16.76	16.85	
20	CP-OFDM 256QAM	50	0	16.90	16.80	16.78	16.78	16.68	
20		1	1	14.41	14.15	14.34	14.40	14.21	
20		1	25	14.29	14.12	14.22	14.37	14.10	
20		1	49	13.91	14.02	13.99	14.07	13.63	
20		25	1	14.49	14.57	14.38	14.39	14.15	
20	CP-OFDM 256QAM	25	12	14.34	14.48	14.23	14.23	14.26	
20		25	24	14.27	14.40	14.29	14.21	14.11	
20		50	0	14.37	14.39	14.24	14.23	14.19	

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