



FCC SAR Test Report

Report No. : FA230405

3	16QAM	15	0	16.62	16.70	16.54		
3	64QAM	1	0	16.63	16.74	16.66	17.5	0
3	64QAM	1	8	16.59	16.69	16.65		
3	64QAM	1	14	16.63	16.72	16.61		
3	64QAM	8	0	16.63	16.72	16.68	17.5	0
3	64QAM	8	4	16.69	16.69	16.60		
3	64QAM	8	7	16.60	16.71	16.59		
3	64QAM	15	0	16.69	16.64	16.62		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.65	16.63	16.61	17.5	0
1.4	QPSK	1	3	16.71	16.69	16.57		
1.4	QPSK	1	5	16.62	16.62	16.59		
1.4	QPSK	3	0	16.63	16.65	16.59		
1.4	QPSK	3	1	16.59	16.54	16.54		
1.4	QPSK	3	3	16.56	16.53	16.60		
1.4	QPSK	6	0	16.65	16.74	16.63	17.5	0
1.4	16QAM	1	0	16.65	16.71	16.56	17.5	0
1.4	16QAM	1	3	16.64	16.70	16.62		
1.4	16QAM	1	5	16.59	16.67	16.64		
1.4	16QAM	3	0	16.65	16.68	16.60		
1.4	16QAM	3	1	16.62	16.70	16.63		
1.4	16QAM	3	3	16.58	16.65	16.68		
1.4	16QAM	6	0	16.63	16.66	16.61	17.5	0
1.4	64QAM	1	0	16.63	16.74	16.62	17.5	0
1.4	64QAM	1	3	16.62	16.67	16.66		
1.4	64QAM	1	5	16.65	16.71	16.59		
1.4	64QAM	3	0	16.63	16.77	16.69		
1.4	64QAM	3	1	16.67	16.64	16.65		
1.4	64QAM	3	3	16.68	16.67	16.62		
1.4	64QAM	6	0	16.64	16.68	16.61	17.5	0



Reduced Power Mode for DSI 2

Ant0

LTE Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	23.49	23.63	23.52	24.5	0
20	QPSK	1	49	23.44	23.46	23.40		
20	QPSK	1	99	23.42	23.51	23.45		
20	QPSK	50	0	22.46	22.72	22.52	24	0.5
20	QPSK	50	24	22.52	22.56	22.46		
20	QPSK	50	50	22.61	22.71	22.60		
20	QPSK	100	0	22.48	22.51	22.45	24	0.5
20	16QAM	1	0	22.40	22.59	22.42		
20	16QAM	1	49	22.36	22.48	22.34		
20	16QAM	1	99	22.37	22.45	22.37	23	1.5
20	16QAM	50	0	21.53	21.63	21.56		
20	16QAM	50	24	21.46	21.50	21.47		
20	16QAM	50	50	21.51	21.72	21.58	23	1.5
20	16QAM	100	0	21.52	21.56	21.43		
20	64QAM	1	0	21.48	21.62	21.40		
20	64QAM	1	49	21.46	21.43	21.43	23	1.5
20	64QAM	1	99	21.37	21.51	21.42		
20	64QAM	50	0	20.54	20.62	20.53		
20	64QAM	50	24	20.40	20.59	20.47	22	2.5
20	64QAM	50	50	20.47	20.68	20.59		
20	64QAM	100	0	20.45	20.62	20.44		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	23.38	23.49	23.43		
15	QPSK	1	37	23.33	23.32	23.34	24.5	0
15	QPSK	1	74	23.34	23.38	23.33		
15	QPSK	36	0	22.38	22.69	22.41	24	0.5
15	QPSK	36	20	22.48	22.49	22.31		
15	QPSK	36	39	22.58	22.60	22.54		
15	QPSK	75	0	22.38	22.37	22.41	24	0.5
15	16QAM	1	0	22.31	22.44	22.39		
15	16QAM	1	37	22.26	22.44	22.19		
15	16QAM	1	74	22.26	22.32	22.30	23	1.5
15	16QAM	36	0	21.42	21.57	21.43		
15	16QAM	36	20	21.34	21.38	21.43		
15	16QAM	36	39	21.40	21.61	21.54	23	1.5
15	16QAM	75	0	21.38	21.51	21.36		
15	64QAM	1	0	21.36	21.56	21.35		
15	64QAM	1	37	21.38	21.33	21.31	23	1.5
15	64QAM	1	74	21.29	21.39	21.34		
15	64QAM	36	0	20.43	20.52	20.39		
15	64QAM	36	20	20.31	20.55	20.40	22	2.5
15	64QAM	36	39	20.40	20.58	20.50		
15	64QAM	75	0	20.39	20.58	20.33		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	23.37	23.55	23.46		



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10	QPSK	1	25	23.35	23.36	23.34	24	0.5
10	QPSK	1	49	23.36	23.43	23.31		
10	QPSK	25	0	22.41	22.57	22.43		
10	QPSK	25	12	22.46	22.47	22.32		
10	QPSK	25	25	22.53	22.58	22.53	24	0.5
10	QPSK	50	0	22.34	22.40	22.37		
10	16QAM	1	0	22.32	22.55	22.37		
10	16QAM	1	25	22.24	22.42	22.19		
10	16QAM	1	49	22.31	22.37	22.33	23	1.5
10	16QAM	25	0	21.43	21.51	21.45		
10	16QAM	25	12	21.40	21.45	21.36		
10	16QAM	25	25	21.43	21.68	21.45		
10	16QAM	50	0	21.47	21.43	21.28	23	1.5
10	64QAM	1	0	21.35	21.49	21.34		
10	64QAM	1	25	21.37	21.32	21.29		
10	64QAM	1	49	21.23	21.43	21.35		
10	64QAM	25	0	20.49	20.55	20.48	22	2.5
10	64QAM	25	12	20.34	20.47	20.35		
10	64QAM	25	25	20.41	20.54	20.48		
10	64QAM	50	0	20.34	20.52	20.33		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	23.43	23.53	23.38	24.5	0
5	QPSK	1	12	23.34	23.42	23.35		
5	QPSK	1	24	23.31	23.40	23.36		
5	QPSK	12	0	22.32	22.63	22.42	24	0.5
5	QPSK	12	7	22.48	22.52	22.38		
5	QPSK	12	13	22.47	22.67	22.46		
5	QPSK	25	0	22.35	22.37	22.33	24	0.5
5	16QAM	1	0	22.28	22.51	22.29		
5	16QAM	1	12	22.29	22.44	22.25		
5	16QAM	1	24	22.33	22.38	22.29	23	1.5
5	16QAM	12	0	21.48	21.52	21.50		
5	16QAM	12	7	21.34	21.46	21.41		
5	16QAM	12	13	21.43	21.69	21.50	23	1.5
5	16QAM	25	0	21.40	21.46	21.34		
5	64QAM	1	0	21.42	21.52	21.32		
5	64QAM	1	12	21.34	21.34	21.32	23	1.5
5	64QAM	1	24	21.34	21.41	21.28		
5	64QAM	12	0	20.45	20.55	20.38		
5	64QAM	12	7	20.31	20.49	20.39	22	2.5
5	64QAM	12	13	20.35	20.54	20.48		
5	64QAM	25	0	20.31	20.52	20.31		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	23.41	23.55	23.45	24.5	0
3	QPSK	1	8	23.37	23.38	23.30		
3	QPSK	1	14	23.32	23.44	23.37		
3	QPSK	8	0	22.33	22.65	22.44	24	0.5
3	QPSK	8	4	22.38	22.42	22.38		
3	QPSK	8	7	22.53	22.63	22.46		
3	QPSK	15	0	22.43	22.42	22.38	24	0.5
3	16QAM	1	0	22.36	22.50	22.37		
3	16QAM	1	8	22.30	22.35	22.29		
3	16QAM	1	14	22.32	22.36	22.28		



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3	16QAM	8	0	21.45	21.55	21.45	23	1.5
3	16QAM	8	4	21.42	21.37	21.35		
3	16QAM	8	7	21.45	21.60	21.44		
3	16QAM	15	0	21.39	21.44	21.33	23	1.5
3	64QAM	1	0	21.44	21.57	21.30		
3	64QAM	1	8	21.43	21.29	21.38		
3	64QAM	1	14	21.26	21.45	21.31	22	2.5
3	64QAM	8	0	20.40	20.53	20.50		
3	64QAM	8	4	20.29	20.49	20.39		
3	64QAM	8	7	20.39	20.64	20.54		
3	64QAM	15	0	20.34	20.59	20.32	Tune-up limit (dBm)	MPR (dB)
Channel				18607	18900	19193		
Frequency (MHz)				1850.7	1880	1909.3	24.5	0
1.4	QPSK	1	0	23.36	23.50	23.45		
1.4	QPSK	1	3	23.31	23.37	23.33		
1.4	QPSK	1	5	23.31	23.36	23.39		
1.4	QPSK	3	0	23.37	23.61	23.41		
1.4	QPSK	3	1	23.40	23.40	23.30		
1.4	QPSK	3	3	23.42	23.51	23.50	24	0.5
1.4	QPSK	6	0	22.42	22.38	22.38		
1.4	16QAM	1	0	22.26	22.55	22.29	24	0.5
1.4	16QAM	1	3	22.28	22.42	22.23		
1.4	16QAM	1	5	22.33	22.30	22.31		
1.4	16QAM	3	0	22.46	22.58	22.53		
1.4	16QAM	3	1	22.47	22.42	22.45		
1.4	16QAM	3	3	22.43	22.67	22.60		
1.4	16QAM	6	0	21.44	21.45	21.39	23	1.5
1.4	64QAM	1	0	21.37	21.52	21.31	23	1.5
1.4	64QAM	1	3	21.42	21.39	21.40		
1.4	64QAM	1	5	21.28	21.42	21.33		
1.4	64QAM	3	0	21.46	21.61	21.48		
1.4	64QAM	3	1	21.39	21.55	21.41		
1.4	64QAM	3	3	21.48	21.67	21.57		
1.4	64QAM	6	0	20.32	20.53	20.40	22	2.5



LTE Band 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	23.68	23.78	23.74	24.5	0
20	QPSK	1	49	23.62	23.72	23.70		
20	QPSK	1	99	23.58	23.66	23.64		
20	QPSK	50	0	22.94	23.01	22.90	23.7	0.8
20	QPSK	50	24	22.85	22.90	22.88		
20	QPSK	50	50	22.88	22.94	22.91		
20	QPSK	100	0	23.01	23.05	22.90	23.7	0.8
20	16QAM	1	0	22.93	22.98	22.93		
20	16QAM	1	49	22.79	22.85	22.83		
20	16QAM	1	99	22.88	22.95	22.84	22.7	1.8
20	16QAM	50	0	21.91	22.07	21.85		
20	16QAM	50	24	21.90	21.85	21.91		
20	16QAM	50	50	21.94	22.00	21.96	22.7	1.8
20	16QAM	100	0	22.12	22.12	22.06		
20	64QAM	1	0	21.95	22.00	21.96		
20	64QAM	1	49	21.74	21.93	21.85	22.7	1.8
20	64QAM	1	99	21.91	21.94	21.92		
20	64QAM	50	0	20.86	21.01	20.90		
20	64QAM	50	24	20.96	20.93	20.85	21.7	2.8
20	64QAM	50	50	21.04	21.03	20.94		
20	64QAM	100	0	21.17	21.04	20.96		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	23.57	23.65	23.69	24.5	0
15	QPSK	1	37	23.55	23.67	23.68		
15	QPSK	1	74	23.51	23.52	23.57		
15	QPSK	36	0	22.86	22.93	22.83	23.7	0.8
15	QPSK	36	20	22.77	22.86	22.77		
15	QPSK	36	39	22.77	22.86	22.78		
15	QPSK	75	0	22.97	23.01	22.84	23.7	0.8
15	16QAM	1	0	22.83	22.95	22.85		
15	16QAM	1	37	22.64	22.71	22.74		
15	16QAM	1	74	22.79	22.82	22.76	22.7	1.8
15	16QAM	36	0	21.82	21.93	21.81		
15	16QAM	36	20	21.77	21.82	21.85		
15	16QAM	36	39	21.86	21.85	21.84	22.7	1.8
15	16QAM	75	0	22.07	22.08	22.03		
15	64QAM	1	0	21.84	21.92	21.90		
15	64QAM	1	37	21.71	21.81	21.81	22.7	1.8
15	64QAM	1	74	21.86	21.82	21.78		
15	64QAM	36	0	20.78	20.96	20.76		
15	64QAM	36	20	20.82	20.78	20.71	21.7	2.8
15	64QAM	36	39	20.99	20.95	20.85		
15	64QAM	75	0	21.10	20.96	20.82		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	23.57	23.70	23.66	24.5	0
10	QPSK	1	25	23.58	23.67	23.60		
10	QPSK	1	49	23.48	23.62	23.57		
10	QPSK	25	0	22.84	22.98	22.86	23.7	0.8



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10	QPSK	25	12	22.74	22.80	22.83		
10	QPSK	25	25	22.74	22.83	22.83		
10	QPSK	50	0	22.87	22.97	22.78		
10	16QAM	1	0	22.78	22.85	22.79	23.7	0.8
10	16QAM	1	25	22.67	22.78	22.73		
10	16QAM	1	49	22.75	22.87	22.73		
10	16QAM	25	0	21.78	21.97	21.71	22.7	1.8
10	16QAM	25	12	21.87	21.79	21.77		
10	16QAM	25	25	21.89	21.94	21.87		
10	16QAM	50	0	22.02	22.08	22.01	22.7	1.8
10	64QAM	1	0	21.81	21.94	21.92		
10	64QAM	1	25	21.66	21.87	21.74		
10	64QAM	1	49	21.85	21.86	21.80	21.7	2.8
10	64QAM	25	0	20.81	20.93	20.76		
10	64QAM	25	12	20.85	20.82	20.70		
10	64QAM	25	25	20.89	20.89	20.85	21.7	2.8
10	64QAM	50	0	21.04	20.96	20.92		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	23.57	23.63	23.62	24.5	0
5	QPSK	1	12	23.57	23.60	23.60		
5	QPSK	1	24	23.51	23.56	23.50		
5	QPSK	12	0	22.80	22.88	22.86	23.7	0.8
5	QPSK	12	7	22.78	22.82	22.84		
5	QPSK	12	13	22.76	22.87	22.82		
5	QPSK	25	0	22.92	22.99	22.80	23.7	0.8
5	16QAM	1	0	22.80	22.92	22.82		
5	16QAM	1	12	22.74	22.74	22.68		
5	16QAM	1	24	22.79	22.87	22.79	22.7	1.8
5	16QAM	12	0	21.76	21.96	21.74		
5	16QAM	12	7	21.75	21.71	21.76		
5	16QAM	12	13	21.85	21.96	21.83	22.7	1.8
5	16QAM	25	0	22.01	22.05	22.01		
5	64QAM	1	0	21.80	21.88	21.91		
5	64QAM	1	12	21.71	21.83	21.73	21.7	2.8
5	64QAM	1	24	21.87	21.86	21.78		
5	64QAM	12	0	20.77	20.94	20.82		
5	64QAM	12	7	20.86	20.80	20.71	21.7	2.8
5	64QAM	12	13	21.01	20.98	20.82		
5	64QAM	25	0	21.08	21.01	20.86		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	23.56	23.72	23.65	24.5	0
3	QPSK	1	8	23.47	23.57	23.66		
3	QPSK	1	14	23.48	23.59	23.57		
3	QPSK	8	0	22.83	22.92	22.79	23.7	0.8
3	QPSK	8	4	22.73	22.85	22.79		
3	QPSK	8	7	22.74	22.86	22.87		
3	QPSK	15	0	22.96	23.00	22.75	23.7	0.8
3	16QAM	1	0	22.85	22.90	22.80		
3	16QAM	1	8	22.71	22.77	22.77		
3	16QAM	1	14	22.78	22.89	22.70	22.7	1.8
3	16QAM	8	0	21.81	22.04	21.77		
3	16QAM	8	4	21.78	21.81	21.78		
3	16QAM	8	7	21.85	21.95	21.83		



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3	16QAM	15	0	22.03	22.00	22.00		
3	64QAM	1	0	21.83	21.91	21.84	22.7	1.8
3	64QAM	1	8	21.62	21.88	21.75		
3	64QAM	1	14	21.84	21.80	21.89		
3	64QAM	8	0	20.79	20.96	20.77	21.7	2.8
3	64QAM	8	4	20.91	20.80	20.72		
3	64QAM	8	7	20.92	20.97	20.91		
3	64QAM	15	0	21.14	20.93	20.85		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	23.61	23.68	23.63	24.5	0
1.4	QPSK	1	3	23.54	23.61	23.62		
1.4	QPSK	1	5	23.46	23.61	23.57		
1.4	QPSK	3	0	23.67	23.67	23.66		
1.4	QPSK	3	1	23.53	23.65	23.54		
1.4	QPSK	3	3	23.60	23.64	23.60		
1.4	QPSK	6	0	22.95	22.92	22.81	24	0.5
1.4	16QAM	1	0	22.80	22.91	22.83	24	0.5
1.4	16QAM	1	3	22.70	22.80	22.76		
1.4	16QAM	1	5	22.76	22.89	22.76		
1.4	16QAM	3	0	22.86	23.00	22.78		
1.4	16QAM	3	1	22.79	22.78	22.76		
1.4	16QAM	3	3	22.81	22.89	22.85		
1.4	16QAM	6	0	22.04	22.04	22.01	23	1.5
1.4	64QAM	1	0	21.81	21.88	21.92	23	1.5
1.4	64QAM	1	3	21.60	21.81	21.74		
1.4	64QAM	1	5	21.83	21.83	21.84		
1.4	64QAM	3	0	21.81	21.89	21.78		
1.4	64QAM	3	1	21.84	21.83	21.77		
1.4	64QAM	3	3	21.93	21.98	21.85		
1.4	64QAM	6	0	21.07	20.97	20.82	22	2.5



LTE Band 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.90	24.05	23.95	25	0
10	QPSK	1	25	23.81	23.90	23.77		
10	QPSK	1	49	23.93	23.91	23.86		
10	QPSK	25	0	22.94	23.03	22.89	24	1
10	QPSK	25	12	22.86	22.94	22.79		
10	QPSK	25	25	22.93	22.97	22.98		
10	QPSK	50	0	23.02	23.05	23.03	24	1
10	16QAM	1	0	22.88	23.07	22.98		
10	16QAM	1	25	22.87	22.87	22.78		
10	16QAM	1	49	22.95	22.92	22.89	23	2
10	16QAM	25	0	21.92	22.04	21.92		
10	16QAM	25	12	21.89	21.89	21.84		
10	16QAM	25	25	21.99	22.04	21.94	23	2
10	16QAM	50	0	22.07	22.05	22.01		
10	64QAM	1	0	21.97	22.00	21.95		
10	64QAM	1	25	21.83	21.92	21.87	23	2
10	64QAM	1	49	21.93	21.98	21.90		
10	64QAM	25	0	20.92	21.06	20.98		
10	64QAM	25	12	20.99	20.90	20.82	22	3
10	64QAM	25	25	21.00	21.03	20.93		
10	64QAM	50	0	21.13	21.07	20.98		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.76	23.92	23.92	25	0
5	QPSK	1	12	23.73	23.79	23.70		
5	QPSK	1	24	23.79	23.77	23.81		
5	QPSK	12	0	22.90	22.97	22.83	24	1
5	QPSK	12	7	22.74	22.91	22.70		
5	QPSK	12	13	22.86	22.93	22.91		
5	QPSK	25	0	22.95	22.91	22.88	24	1
5	16QAM	1	0	22.82	22.94	22.84		
5	16QAM	1	12	22.76	22.75	22.67		
5	16QAM	1	24	22.90	22.84	22.78	23	2
5	16QAM	12	0	21.86	21.92	21.84		
5	16QAM	12	7	21.83	21.77	21.75		
5	16QAM	12	13	21.90	21.95	21.88	23	2
5	16QAM	25	0	22.04	21.93	21.87		
5	64QAM	1	0	21.91	21.95	21.91		
5	64QAM	1	12	21.73	21.84	21.72	23	2
5	64QAM	1	24	21.88	21.91	21.81		
5	64QAM	12	0	20.88	20.97	20.87		
5	64QAM	12	7	20.86	20.87	20.71	22	3
5	64QAM	12	13	20.95	20.96	20.87		
5	64QAM	25	0	21.07	21.02	20.87		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.78	23.94	23.91	25	0
3	QPSK	1	8	23.66	23.78	23.65		
3	QPSK	1	14	23.87	23.78	23.78		
3	QPSK	8	0	22.81	22.88	22.77	24	1

3	QPSK	8	4	22.75	22.90	22.66		
3	QPSK	8	7	22.86	22.84	22.90		
3	QPSK	15	0	22.89	22.95	22.94		
3	16QAM	1	0	22.83	23.01	22.85	24	1
3	16QAM	1	8	22.82	22.72	22.68		
3	16QAM	1	14	22.85	22.83	22.81		
3	16QAM	8	0	21.80	21.96	21.88	23	2
3	16QAM	8	4	21.75	21.82	21.72		
3	16QAM	8	7	21.85	21.91	21.88		
3	16QAM	15	0	21.98	21.98	21.91	23	2
3	64QAM	1	0	21.90	21.92	21.91		
3	64QAM	1	8	21.77	21.77	21.83		
3	64QAM	1	14	21.87	21.90	21.82	22	3
3	64QAM	8	0	20.87	21.02	20.84		
3	64QAM	8	4	20.92	20.81	20.72		
3	64QAM	8	7	20.87	20.97	20.86		
3	64QAM	15	0	21.01	20.99	20.94		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.84	24.02	23.88	25	0
1.4	QPSK	1	3	23.71	23.79	23.66		
1.4	QPSK	1	5	23.85	23.84	23.78		
1.4	QPSK	3	0	23.80	23.90	23.86		
1.4	QPSK	3	1	23.82	23.80	23.76		
1.4	QPSK	3	3	23.78	23.83	23.83		
1.4	QPSK	6	0	22.88	22.91	22.99	24	1
1.4	16QAM	1	0	22.82	22.99	22.84	24	1
1.4	16QAM	1	3	22.77	22.83	22.63		
1.4	16QAM	1	5	22.83	22.84	22.77		
1.4	16QAM	3	0	22.85	22.97	22.78		
1.4	16QAM	3	1	22.82	22.76	22.75		
1.4	16QAM	3	3	22.84	22.97	22.87		
1.4	16QAM	6	0	21.94	21.94	21.89	23	2
1.4	64QAM	1	0	21.87	21.87	21.91	23	2
1.4	64QAM	1	3	21.69	21.83	21.83		
1.4	64QAM	1	5	21.89	21.91	21.77		
1.4	64QAM	3	0	21.79	22.02	21.90		
1.4	64QAM	3	1	21.93	21.86	21.69		
1.4	64QAM	3	3	21.87	21.89	21.82		
1.4	64QAM	6	0	20.98	20.95	20.89	22	3

LTE Band 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	20.84	20.98	20.86	22.2	0
20	QPSK	1	49	20.81	20.96	20.83		
20	QPSK	1	99	20.77	20.85	20.74		
20	QPSK	50	0	20.84	20.89	20.83	22.2	0
20	QPSK	50	24	20.68	20.81	20.66		
20	QPSK	50	50	20.72	20.86	20.74		
20	QPSK	100	0	20.79	20.88	20.74	22.2	0
20	16QAM	1	0	20.86	20.85	20.82		
20	16QAM	1	49	20.78	20.84	20.81		
20	16QAM	1	99	20.80	20.83	20.72	22	0.2
20	16QAM	50	0	20.61	20.80	20.64		
20	16QAM	50	24	20.66	20.72	20.59		
20	16QAM	50	50	20.54	20.67	20.51	22	0.2
20	16QAM	100	0	20.62	20.73	20.63		
20	64QAM	1	0	20.48	20.63	20.47		
20	64QAM	1	49	20.51	20.68	20.55	22	0.2
20	64QAM	1	99	20.58	20.65	20.50		
20	64QAM	50	0	19.66	19.79	19.64		
20	64QAM	50	24	19.57	19.72	19.67	21	1.2
20	64QAM	50	50	19.61	19.70	19.57		
20	64QAM	100	0	19.63	19.70	19.60		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.89	20.88	20.82	22.2	0
15	QPSK	1	37	20.83	20.96	20.84		
15	QPSK	1	74	20.73	20.85	20.74		
15	QPSK	36	0	20.81	20.89	20.82	22.2	0
15	QPSK	36	20	20.68	20.81	20.68		
15	QPSK	36	39	20.71	20.83	20.79		
15	QPSK	75	0	20.78	20.83	20.77	22.2	0
15	16QAM	1	0	20.87	20.96	20.82		
15	16QAM	1	37	20.74	20.91	20.84		
15	16QAM	1	74	20.76	20.80	20.73	22	0.2
15	16QAM	36	0	20.60	20.81	20.64		
15	16QAM	36	20	20.68	20.68	20.61		
15	16QAM	36	39	20.49	20.65	20.54	22	0.2
15	16QAM	75	0	20.60	20.74	20.60		
15	64QAM	1	0	20.44	20.66	20.48		
15	64QAM	1	37	20.47	20.68	20.56	22	0.2
15	64QAM	1	74	20.63	20.66	20.54		
15	64QAM	36	0	19.62	19.84	19.68		
15	64QAM	36	20	19.58	19.69	19.71	21	1.2
15	64QAM	36	39	19.65	19.72	19.60		
15	64QAM	75	0	19.66	19.68	19.60		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.88	20.97	20.89	22.2	0
10	QPSK	1	25	20.81	20.88	20.78		
10	QPSK	1	49	20.74	20.81	20.73		
10	QPSK	25	0	20.81	20.91	20.78	22.2	0



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10	QPSK	25	12	20.66	20.79	20.62		
10	QPSK	25	25	20.71	20.91	20.77		
10	QPSK	50	0	20.78	20.91	20.78		
10	16QAM	1	0	20.86	20.97	20.84	22.2	0
10	16QAM	1	25	20.78	20.95	20.78		
10	16QAM	1	49	20.83	20.84	20.72		
10	16QAM	25	0	20.65	20.79	20.61	22	0.2
10	16QAM	25	12	20.61	20.74	20.54		
10	16QAM	25	25	20.50	20.67	20.47		
10	16QAM	50	0	20.63	20.74	20.61	22	0.2
10	64QAM	1	0	20.48	20.68	20.43		
10	64QAM	1	25	20.49	20.69	20.57		
10	64QAM	1	49	20.58	20.63	20.50	21	1.2
10	64QAM	25	0	19.66	19.76	19.60		
10	64QAM	25	12	19.59	19.76	19.71		
10	64QAM	25	25	19.59	19.72	19.54		
10	64QAM	50	0	19.63	19.69	19.60		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.84	20.99	20.84	22.2	0
5	QPSK	1	12	20.82	20.98	20.84		
5	QPSK	1	24	20.74	20.81	20.75		
5	QPSK	12	0	20.88	20.94	20.85	22.2	0
5	QPSK	12	7	20.71	20.82	20.70		
5	QPSK	12	13	20.71	20.91	20.78		
5	QPSK	25	0	20.81	20.85	20.75	22.2	0
5	16QAM	1	0	20.88	20.99	20.79		
5	16QAM	1	12	20.75	20.91	20.84		
5	16QAM	1	24	20.80	20.81	20.69	22	0.2
5	16QAM	12	0	20.66	20.76	20.62		
5	16QAM	12	7	20.66	20.70	20.61		
5	16QAM	12	13	20.58	20.65	20.52	22	0.2
5	16QAM	25	0	20.67	20.71	20.59		
5	64QAM	1	0	20.49	20.68	20.46		
5	64QAM	1	12	20.52	20.66	20.59	21	1.2
5	64QAM	1	24	20.62	20.64	20.49		
5	64QAM	12	0	19.68	19.84	19.61		
5	64QAM	12	7	19.53	19.71	19.71		
5	64QAM	12	13	19.61	19.67	19.57		
5	64QAM	25	0	19.60	19.69	19.61		



LTE Band 12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.82	23.99	23.84	25	0
10	QPSK	1	25	23.69	23.73	23.68		
10	QPSK	1	49	23.77	23.83	23.80		
10	QPSK	25	0	22.87	22.92	22.79	24	1
10	QPSK	25	12	22.76	22.87	22.74		
10	QPSK	25	25	22.81	22.82	22.85		
10	QPSK	50	0	22.86	22.98	22.91	24	1
10	16QAM	1	0	22.83	22.96	22.89		
10	16QAM	1	25	22.77	22.80	22.74		
10	16QAM	1	49	22.87	22.79	22.76	23	2
10	16QAM	25	0	21.83	21.97	21.83		
10	16QAM	25	12	21.84	21.77	21.81		
10	16QAM	25	25	21.93	21.93	21.86	23	2
10	16QAM	50	0	21.98	21.99	21.93		
10	64QAM	1	0	21.81	21.86	21.82		
10	64QAM	1	25	21.69	21.86	21.71	23	2
10	64QAM	1	49	21.80	21.81	21.89		
10	64QAM	25	0	20.75	20.97	20.88		
10	64QAM	25	12	20.89	20.77	20.70	22	3
10	64QAM	25	25	20.94	20.90	20.85		
10	64QAM	50	0	20.98	20.91	20.88		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.73	23.80	23.77	25	0
5	QPSK	1	12	23.54	23.64	23.53		
5	QPSK	1	24	23.64	23.75	23.73		
5	QPSK	12	0	22.84	22.86	22.70	24	1
5	QPSK	12	7	22.67	22.83	22.70		
5	QPSK	12	13	22.72	22.79	22.75		
5	QPSK	25	0	22.79	22.93	22.86	24	1
5	16QAM	1	0	22.69	22.89	22.76		
5	16QAM	1	12	22.73	22.74	22.70		
5	16QAM	1	24	22.81	22.66	22.64	23	2
5	16QAM	12	0	21.77	21.90	21.79		
5	16QAM	12	7	21.80	21.71	21.73		
5	16QAM	12	13	21.83	21.87	21.80	23	2
5	16QAM	25	0	21.84	21.96	21.85		
5	64QAM	1	0	21.77	21.72	21.69		
5	64QAM	1	12	21.56	21.77	21.64	23	2
5	64QAM	1	24	21.72	21.76	21.81		
5	64QAM	12	0	20.67	20.93	20.78		
5	64QAM	12	7	20.84	20.69	20.66	22	3
5	64QAM	12	13	20.87	20.80	20.72		
5	64QAM	25	0	20.84	20.78	20.75		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.71	23.80	23.70	25	0
3	QPSK	1	8	23.64	23.61	23.58		
3	QPSK	1	14	23.62	23.72	23.73		
3	QPSK	8	0	22.72	22.87	22.75	24	1

3	QPSK	8	4	22.67	22.83	22.64		
3	QPSK	8	7	22.73	22.71	22.71		
3	QPSK	15	0	22.75	22.91	22.78		
3	16QAM	1	0	22.76	22.88	22.75	24	1
3	16QAM	1	8	22.68	22.67	22.66		
3	16QAM	1	14	22.80	22.72	22.70		
3	16QAM	8	0	21.77	21.85	21.73	23	2
3	16QAM	8	4	21.74	21.68	21.73		
3	16QAM	8	7	21.89	21.79	21.82		
3	16QAM	15	0	21.90	21.92	21.89	23	2
3	64QAM	1	0	21.70	21.74	21.68		
3	64QAM	1	8	21.56	21.78	21.60		
3	64QAM	1	14	21.66	21.67	21.79	22	3
3	64QAM	8	0	20.61	20.90	20.78		
3	64QAM	8	4	20.74	20.68	20.55		
3	64QAM	8	7	20.82	20.76	20.74	22	3
3	64QAM	15	0	20.88	20.86	20.75		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	23.72	23.80	23.75	25	0
1.4	QPSK	1	3	23.54	23.68	23.56		
1.4	QPSK	1	5	23.62	23.70	23.67		
1.4	QPSK	3	0	23.83	23.84	23.71		
1.4	QPSK	3	1	23.69	23.75	23.69		
1.4	QPSK	3	3	23.77	23.69	23.75		
1.4	QPSK	6	0	22.75	22.84	22.78	24	1
1.4	16QAM	1	0	22.77	22.86	22.84	24	1
1.4	16QAM	1	3	22.69	22.68	22.70		
1.4	16QAM	1	5	22.78	22.69	22.61		
1.4	16QAM	3	0	22.72	22.84	22.77		
1.4	16QAM	3	1	22.79	22.69	22.72		
1.4	16QAM	3	3	22.78	22.80	22.80		
1.4	16QAM	6	0	21.88	21.85	21.81	23	2
1.4	64QAM	1	0	21.76	21.79	21.75	23	2
1.4	64QAM	1	3	21.63	21.72	21.59		
1.4	64QAM	1	5	21.68	21.75	21.78		
1.4	64QAM	3	0	21.68	21.88	21.75		
1.4	64QAM	3	1	21.75	21.63	21.62		
1.4	64QAM	3	3	21.87	21.76	21.78		
1.4	64QAM	6	0	20.87	20.80	20.73	22	3



LTE Band 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		23.01		24	0
10	QPSK	1	25		22.82			
10	QPSK	1	49		22.92			
10	QPSK	25	0		22.14		23	1
10	QPSK	25	12		22.02			
10	QPSK	25	25		22.04			
10	QPSK	50	0		21.96		23	1
10	16QAM	1	0		22.31			
10	16QAM	1	25		22.23			
10	16QAM	1	49		22.32		22	2
10	16QAM	25	0		21.15			
10	16QAM	25	12		21.08			
10	16QAM	25	25		21.06		22	2
10	16QAM	50	0		21.02			
10	64QAM	1	0		21.21			
10	64QAM	1	25		21.14		22	2
10	64QAM	1	49		21.17			
10	64QAM	25	0		20.10			
10	64QAM	25	12		20.12		21	3
10	64QAM	25	25		20.14			
10	64QAM	50	0		20.00			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.90	22.96	22.81	24	0
5	QPSK	1	12	22.63	22.75	22.65		
5	QPSK	1	24	22.73	22.80	22.72		
5	QPSK	12	0	22.00	22.04	21.95	23	1
5	QPSK	12	7	21.82	21.99	21.74		
5	QPSK	12	13	21.85	21.90	21.88		
5	QPSK	25	0	21.72	21.91	21.87	23	1
5	16QAM	1	0	22.12	22.23	22.19		
5	16QAM	1	12	22.11	22.12	21.97		
5	16QAM	1	24	22.12	22.26	22.19	22	2
5	16QAM	12	0	20.88	21.02	20.97		
5	16QAM	12	7	20.96	21.00	20.97		
5	16QAM	12	13	20.91	20.98	20.93	22	2
5	16QAM	25	0	20.83	20.89	20.89		
5	64QAM	1	0	21.02	21.14	21.09		
5	64QAM	1	12	20.87	21.02	21.01	22	2
5	64QAM	1	24	21.02	21.10	20.94		
5	64QAM	12	0	19.90	20.00	19.82		
5	64QAM	12	7	19.93	20.06	19.89	21	3
5	64QAM	12	13	20.04	20.03	19.97		
5	64QAM	25	0	19.82	19.85	19.93		



LTE Band 14								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0		23.99		25	0
10	QPSK	1	25		23.94			
10	QPSK	1	49		23.87			
10	QPSK	25	0		23.03		24	1
10	QPSK	25	12		22.93			
10	QPSK	25	25		22.99			
10	QPSK	50	0		23.05		24	1
10	16QAM	1	0		23.34			
10	16QAM	1	25		23.41			
10	16QAM	1	49		23.26		23	2
10	16QAM	25	0		21.96			
10	16QAM	25	12		22.05			
10	16QAM	25	25		22.11		23	2
10	16QAM	50	0		22.05			
10	64QAM	1	0		22.20			
10	64QAM	1	25		22.28		23	2
10	64QAM	1	49		22.09			
10	64QAM	25	0		21.00			
10	64QAM	25	12		21.01		22	3
10	64QAM	25	25		21.07			
10	64QAM	50	0		21.05			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	23.80	23.86	23.83	25	0
5	QPSK	1	12	23.78	23.89	23.85		
5	QPSK	1	24	23.78	23.72	23.68		
5	QPSK	12	0	22.83	22.94	22.87	24	1
5	QPSK	12	7	22.74	22.85	22.82		
5	QPSK	12	13	22.83	22.95	22.86		
5	QPSK	25	0	22.84	22.98	22.90	24	1
5	16QAM	1	0	23.24	23.29	23.23		
5	16QAM	1	12	23.21	23.34	23.25		
5	16QAM	1	24	23.02	23.19	23.19	23	2
5	16QAM	12	0	21.76	21.92	21.79		
5	16QAM	12	7	21.88	22.02	21.92		
5	16QAM	12	13	21.90	22.08	21.95	23	2
5	16QAM	25	0	21.82	22.00	21.90		
5	64QAM	1	0	22.02	22.05	22.02		
5	64QAM	1	12	22.12	22.18	22.10	23	2
5	64QAM	1	24	21.87	22.04	21.86		
5	64QAM	12	0	20.81	20.91	20.80		
5	64QAM	12	7	20.74	20.90	20.85	22	3
5	64QAM	12	13	20.96	20.99	20.93		
5	64QAM	25	0	20.90	21.00	20.87		



LTE Band 17								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.89	23.97	23.95	25	0
10	QPSK	1	25	23.82	23.90	23.86		
10	QPSK	1	49	23.85	23.88	23.85		
10	QPSK	25	0	22.90	23.01	22.94	24	1
10	QPSK	25	12	22.81	22.95	22.88		
10	QPSK	25	25	22.98	22.95	22.99		
10	QPSK	50	0	22.95	23.05	23.02	24	1
10	16QAM	1	0	22.88	23.07	23.00		
10	16QAM	1	25	22.84	22.88	22.81		
10	16QAM	1	49	22.88	22.91	22.91	23	2
10	16QAM	25	0	21.92	22.06	21.85		
10	16QAM	25	12	21.87	21.85	21.91		
10	16QAM	25	25	22.01	21.97	21.92	23	2
10	16QAM	50	0	22.11	22.01	22.03		
10	64QAM	1	0	21.96	21.97	22.00		
10	64QAM	1	25	21.81	21.91	21.88	23	2
10	64QAM	1	49	21.98	21.97	21.93		
10	64QAM	25	0	20.86	21.07	20.90		
10	64QAM	25	12	20.95	20.84	20.84	22	3
10	64QAM	25	25	20.98	21.01	20.99		
10	64QAM	50	0	21.11	21.12	21.04		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.78	23.95	23.86		
5	QPSK	1	12	23.70	23.78	23.72	25	0
5	QPSK	1	24	23.79	23.73	23.75		
5	QPSK	12	0	22.86	22.94	22.83	24	1
5	QPSK	12	7	22.71	22.80	22.84		
5	QPSK	12	13	22.89	22.90	22.88		
5	QPSK	25	0	22.87	23.02	22.89	24	1
5	16QAM	1	0	22.77	22.92	22.87		
5	16QAM	1	12	22.71	22.82	22.77		
5	16QAM	1	24	22.81	22.80	22.82	23	2
5	16QAM	12	0	21.88	21.99	21.76		
5	16QAM	12	7	21.75	21.76	21.81		
5	16QAM	12	13	21.95	21.90	21.85	23	2
5	16QAM	25	0	22.03	21.93	21.97		
5	64QAM	1	0	21.90	21.90	21.88		
5	64QAM	1	12	21.70	21.85	21.76	23	2
5	64QAM	1	24	21.86	21.84	21.85		
5	64QAM	12	0	20.81	21.03	20.83		
5	64QAM	12	7	20.89	20.79	20.69	22	3
5	64QAM	12	13	20.84	20.92	20.85		
5	64QAM	25	0	20.99	21.03	20.99		



LTE Band 25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	23.07	23.15	23.12	24.5	0
20	QPSK	1	49	23.02	23.10	23.04		
20	QPSK	1	99	22.91	23.03	22.98		
20	QPSK	50	0	22.50	22.72	22.62	24	0.5
20	QPSK	50	24	22.61	22.62	22.70		
20	QPSK	50	50	22.65	22.64	22.64		
20	QPSK	100	0	22.47	22.62	22.57	24	0.5
20	16QAM	1	0	22.83	23.00	22.81		
20	16QAM	1	49	22.83	22.84	22.79		
20	16QAM	1	99	22.83	22.88	22.79	23	1.5
20	16QAM	50	0	21.59	21.54	21.51		
20	16QAM	50	24	21.57	21.59	21.57		
20	16QAM	50	50	21.57	21.66	21.54	23	1.5
20	16QAM	100	0	21.50	21.57	21.46		
20	64QAM	1	0	21.56	21.70	21.65		
20	64QAM	1	49	21.77	21.76	21.69	23	1.5
20	64QAM	1	99	21.59	21.71	21.64		
20	64QAM	50	0	20.71	20.73	20.57		
20	64QAM	50	24	20.55	20.69	20.57	22	2.5
20	64QAM	50	50	20.62	20.61	20.59		
20	64QAM	100	0	20.60	20.65	20.55		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	22.96	23.01	23.05	24.5	0
15	QPSK	1	37	22.88	23.03	22.98		
15	QPSK	1	74	22.79	22.92	22.86		
15	QPSK	36	0	22.37	22.58	22.50	24	0.5
15	QPSK	36	20	22.52	22.49	22.58		
15	QPSK	36	39	22.59	22.60	22.58		
15	QPSK	75	0	22.33	22.50	22.47	24	0.5
15	16QAM	1	0	22.79	22.88	22.72		
15	16QAM	1	37	22.77	22.78	22.67		
15	16QAM	1	74	22.79	22.78	22.69	23	1.5
15	16QAM	36	0	21.54	21.50	21.44		
15	16QAM	36	20	21.43	21.48	21.45		
15	16QAM	36	39	21.47	21.63	21.48	23	1.5
15	16QAM	75	0	21.37	21.51	21.37		
15	64QAM	1	0	21.42	21.66	21.61		
15	64QAM	1	37	21.71	21.64	21.60	23	1.5
15	64QAM	1	74	21.47	21.62	21.51		
15	64QAM	36	0	20.65	20.66	20.49		
15	64QAM	36	20	20.41	20.62	20.49	22	2.5
15	64QAM	36	39	20.50	20.57	20.52		
15	64QAM	75	0	20.52	20.53	20.49		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	23.02	23.11	23.04	24.5	0
10	QPSK	1	25	22.92	22.97	22.96		
10	QPSK	1	49	22.84	22.92	22.89		
10	QPSK	25	0	22.46	22.64	22.57	24	0.5



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10	QPSK	25	12	22.51	22.58	22.58		
10	QPSK	25	25	22.55	22.51	22.50		
10	QPSK	50	0	22.36	22.54	22.53		
10	16QAM	1	0	22.70	22.92	22.67	24	0.5
10	16QAM	1	25	22.75	22.72	22.72		
10	16QAM	1	49	22.69	22.75	22.66		
10	16QAM	25	0	21.53	21.48	21.37	23	1.5
10	16QAM	25	12	21.44	21.51	21.51		
10	16QAM	25	25	21.48	21.62	21.49		
10	16QAM	50	0	21.44	21.49	21.33	23	1.5
10	64QAM	1	0	21.47	21.66	21.56		
10	64QAM	1	25	21.67	21.67	21.55		
10	64QAM	1	49	21.46	21.57	21.50	22	2.5
10	64QAM	25	0	20.67	20.66	20.49		
10	64QAM	25	12	20.46	20.57	20.53		
10	64QAM	25	25	20.50	20.55	20.49		
10	64QAM	50	0	20.49	20.57	20.48		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	22.94	23.02	23.07	24.5	0
5	QPSK	1	12	22.92	23.06	22.94		
5	QPSK	1	24	22.82	22.89	22.95		
5	QPSK	12	0	22.36	22.57	22.57	24	0.5
5	QPSK	12	7	22.55	22.49	22.64		
5	QPSK	12	13	22.51	22.49	22.56		
5	QPSK	25	0	22.41	22.50	22.52	24	0.5
5	16QAM	1	0	22.78	22.96	22.72		
5	16QAM	1	12	22.70	22.75	22.71		
5	16QAM	1	24	22.71	22.75	22.65	23	1.5
5	16QAM	12	0	21.47	21.41	21.44		
5	16QAM	12	7	21.47	21.50	21.46		
5	16QAM	12	13	21.45	21.55	21.47	23	1.5
5	16QAM	25	0	21.46	21.47	21.34		
5	64QAM	1	0	21.48	21.57	21.56		
5	64QAM	1	12	21.71	21.70	21.56	22	2.5
5	64QAM	1	24	21.49	21.60	21.52		
5	64QAM	12	0	20.60	20.65	20.49		
5	64QAM	12	7	20.48	20.59	20.46		
5	64QAM	12	13	20.58	20.54	20.53		
5	64QAM	25	0	20.52	20.51	20.47		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	23.01	23.10	23.05	24.5	0
3	QPSK	1	8	22.89	22.99	22.98		
3	QPSK	1	14	22.84	22.97	22.85		
3	QPSK	8	0	22.39	22.57	22.50	24	0.5
3	QPSK	8	4	22.57	22.51	22.63		
3	QPSK	8	7	22.50	22.54	22.53		
3	QPSK	15	0	22.40	22.47	22.53	24	0.5
3	16QAM	1	0	22.68	22.88	22.72		
3	16QAM	1	8	22.69	22.72	22.65		
3	16QAM	1	14	22.75	22.78	22.66	23	1.5
3	16QAM	8	0	21.49	21.49	21.38		
3	16QAM	8	4	21.48	21.45	21.42		
3	16QAM	8	7	21.51	21.56	21.50		



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3	16QAM	15	0	21.42	21.42	21.35		
3	64QAM	1	0	21.48	21.60	21.61	23	1.5
3	64QAM	1	8	21.66	21.62	21.60		
3	64QAM	1	14	21.47	21.61	21.59		
3	64QAM	8	0	20.57	20.59	20.52	22	2.5
3	64QAM	8	4	20.45	20.60	20.51		
3	64QAM	8	7	20.48	20.54	20.50		
3	64QAM	15	0	20.56	20.61	20.49		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	23.00	23.09	23.03	24.5	0
1.4	QPSK	1	3	22.99	22.97	22.98		
1.4	QPSK	1	5	22.83	22.99	22.90		
1.4	QPSK	3	0	22.85	23.02	22.99		
1.4	QPSK	3	1	22.95	23.01	23.11		
1.4	QPSK	3	3	23.05	23.02	22.99		
1.4	QPSK	6	0	22.37	22.58	22.49	24	0.5
1.4	16QAM	1	0	22.70	22.88	22.74	24	0.5
1.4	16QAM	1	3	22.72	22.76	22.74		
1.4	16QAM	1	5	22.69	22.75	22.69		
1.4	16QAM	3	0	22.47	22.41	22.43		
1.4	16QAM	3	1	22.45	22.44	22.52		
1.4	16QAM	3	3	22.52	22.59	22.42		
1.4	16QAM	6	0	21.36	21.51	21.38	23	1.5
1.4	64QAM	1	0	21.43	21.57	21.58	23	1.5
1.4	64QAM	1	3	21.66	21.65	21.64		
1.4	64QAM	1	5	21.46	21.62	21.49		
1.4	64QAM	3	0	21.67	21.61	21.47		
1.4	64QAM	3	1	21.48	21.58	21.45		
1.4	64QAM	3	3	21.49	21.50	21.50		
1.4	64QAM	6	0	20.52	20.60	20.50	22	2.5



LTE Band 26								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.96	23.00	22.86	24	0
15	QPSK	1	37	22.79	22.82	22.76		
15	QPSK	1	74	22.87	22.97	22.90		
15	QPSK	36	0	21.83	21.95	21.82	23	1
15	QPSK	36	20	21.90	21.93	21.88		
15	QPSK	36	39	21.78	21.92	21.80		
15	QPSK	75	0	21.91	22.00	21.90	23	1
15	16QAM	1	0	22.04	22.10	22.00		
15	16QAM	1	37	22.12	22.22	22.17		
15	16QAM	1	74	21.99	22.09	22.01	22	2
15	16QAM	36	0	20.71	20.85	20.73		
15	16QAM	36	20	20.81	20.94	20.80		
15	16QAM	36	39	20.82	20.85	20.81	22	2
15	16QAM	75	0	20.91	21.02	20.94		
15	64QAM	1	0	20.95	21.08	20.95		
15	64QAM	1	37	20.88	21.03	20.99	22	2
15	64QAM	1	74	20.84	20.96	20.89		
15	64QAM	36	0	19.88	19.94	19.83		
15	64QAM	36	20	19.98	20.01	19.91	21	3
15	64QAM	36	39	19.85	19.95	19.83		
15	64QAM	75	0	19.85	19.93	19.80		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.93	22.86	22.76	24	0
10	QPSK	1	25	22.67	22.70	22.65		
10	QPSK	1	49	22.80	22.82	22.78		
10	QPSK	25	0	21.79	21.83	21.77	23	1
10	QPSK	25	12	21.79	21.84	21.83		
10	QPSK	25	25	21.63	21.85	21.72		
10	QPSK	50	0	21.77	21.90	21.84	23	1
10	16QAM	1	0	21.97	22.01	21.85		
10	16QAM	1	25	22.00	22.15	22.11		
10	16QAM	1	49	21.91	22.02	21.88	22	2
10	16QAM	25	0	20.63	20.74	20.58		
10	16QAM	25	12	20.77	20.84	20.67		
10	16QAM	25	25	20.72	20.72	20.70	22	2
10	16QAM	50	0	20.78	20.98	20.84		
10	64QAM	1	0	20.89	20.93	20.82		
10	64QAM	1	25	20.77	20.96	20.87	22	2
10	64QAM	1	49	20.73	20.88	20.75		
10	64QAM	25	0	19.81	19.87	19.75		
10	64QAM	25	12	19.84	19.92	19.84	21	3
10	64QAM	25	25	19.79	19.85	19.79		
10	64QAM	50	0	19.80	19.90	19.73		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.85	22.95	22.76	24	0
5	QPSK	1	12	22.68	22.72	22.65		
5	QPSK	1	24	22.79	22.89	22.84		
5	QPSK	12	0	21.73	21.88	21.78	23	1



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5	QPSK	12	7	21.75	21.85	21.79		
5	QPSK	12	13	21.72	21.80	21.76		
5	QPSK	25	0	21.85	21.90	21.83		
5	16QAM	1	0	21.91	21.98	21.95	23	1
5	16QAM	1	12	22.04	22.18	22.07		
5	16QAM	1	24	21.91	22.04	21.94		
5	16QAM	12	0	20.64	20.78	20.66	22	2
5	16QAM	12	7	20.76	20.84	20.75		
5	16QAM	12	13	20.70	20.71	20.73		
5	16QAM	25	0	20.80	20.93	20.89	22	2
5	64QAM	1	0	20.90	20.96	20.84		
5	64QAM	1	12	20.83	20.99	20.90		
5	64QAM	1	24	20.70	20.91	20.82	21	3
5	64QAM	12	0	19.80	19.82	19.80		
5	64QAM	12	7	19.93	19.96	19.81		
5	64QAM	12	13	19.72	19.84	19.74		
5	64QAM	25	0	19.73	19.81	19.65		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.86	22.96	22.82	24	0
3	QPSK	1	8	22.72	22.77	22.62		
3	QPSK	1	14	22.82	22.89	22.78		
3	QPSK	8	0	21.77	21.86	21.75	23	1
3	QPSK	8	4	21.79	21.85	21.80		
3	QPSK	8	7	21.74	21.85	21.69		
3	QPSK	15	0	21.79	21.95	21.86	23	1
3	16QAM	1	0	21.97	22.02	21.95		
3	16QAM	1	8	22.05	22.11	22.06		
3	16QAM	1	14	21.88	22.00	21.89	22	2
3	16QAM	8	0	20.61	20.73	20.69		
3	16QAM	8	4	20.75	20.82	20.73		
3	16QAM	8	7	20.73	20.82	20.70	22	2
3	16QAM	15	0	20.77	20.99	20.90		
3	64QAM	1	0	20.89	20.96	20.80		
3	64QAM	1	8	20.84	21.00	20.93	21	3
3	64QAM	1	14	20.81	20.82	20.82		
3	64QAM	8	0	19.83	19.79	19.72		
3	64QAM	8	4	19.89	19.97	19.81	21	3
3	64QAM	8	7	19.74	19.88	19.75		
3	64QAM	15	0	19.80	19.89	19.76		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.87	22.94	22.82	24	0
1.4	QPSK	1	3	22.64	22.71	22.68		
1.4	QPSK	1	5	22.77	22.88	22.82		
1.4	QPSK	3	0	22.77	22.90	22.74	23	1
1.4	QPSK	3	1	22.82	22.79	22.77		
1.4	QPSK	3	3	22.73	22.86	22.75		
1.4	QPSK	6	0	21.78	21.87	21.85	23	1
1.4	16QAM	1	0	22.00	22.00	21.86		
1.4	16QAM	1	3	22.02	22.10	22.08		
1.4	16QAM	1	5	21.92	21.99	21.96	23	1
1.4	16QAM	3	0	21.67	21.76	21.66		
1.4	16QAM	3	1	21.69	21.90	21.66		
1.4	16QAM	3	3	21.74	21.76	21.77		



1.4	16QAM	6	0	20.87	20.96	20.79	22	2
1.4	64QAM	1	0	20.87	20.96	20.88	22	2
1.4	64QAM	1	3	20.81	20.99	20.88		
1.4	64QAM	1	5	20.70	20.90	20.85		
1.4	64QAM	3	0	20.75	20.87	20.76		
1.4	64QAM	3	1	20.86	20.98	20.79		
1.4	64QAM	3	3	20.81	20.81	20.73		
1.4	64QAM	6	0	19.80	19.82	19.72	21	3

LTE Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	24.5	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	23.79	23.82	23.68		
20	QPSK	1	49	23.77	23.81	23.70	24	0.5
20	QPSK	1	99	23.75	23.80	23.68		
20	QPSK	50	0	23.25	23.30	23.19		
20	QPSK	50	24	23.28	23.26	23.20	24	0.5
20	QPSK	50	50	23.24	23.29	23.15		
20	QPSK	100	0	23.24	23.26	23.23		
20	16QAM	1	0	23.28	23.32	23.20	24	0.5
20	16QAM	1	49	23.26	23.31	23.21		
20	16QAM	1	99	23.31	23.33	23.18		
20	16QAM	50	0	22.30	22.32	22.21	23	1.5
20	16QAM	50	24	22.26	22.29	22.22		
20	16QAM	50	50	22.28	22.33	22.20		
20	16QAM	100	0	22.26	22.27	22.24	23	1.5
20	64QAM	1	0	22.29	22.35	22.19		
20	64QAM	1	49	22.29	22.30	22.19		
20	64QAM	1	99	22.31	22.31	22.17	22	2.5
20	64QAM	50	0	21.27	21.32	21.15		
20	64QAM	50	24	21.27	21.33	21.21		
20	64QAM	50	50	21.31	21.32	21.16	22	2.5
20	64QAM	100	0	21.23	21.32	21.19		
Channel				132047	132322	132597	24.5	0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	23.76	23.83	23.69		
15	QPSK	1	37	23.78	23.79	23.69	24	0.5
15	QPSK	1	74	23.74	23.78	23.66		
15	QPSK	36	0	23.26	23.30	23.19		
15	QPSK	36	20	23.27	23.24	23.22	24	0.5
15	QPSK	36	39	23.23	23.29	23.15		
15	QPSK	75	0	23.21	23.27	23.22		
15	16QAM	1	0	23.25	23.33	23.22	24	0.5
15	16QAM	1	37	23.24	23.30	23.21		
15	16QAM	1	74	23.33	23.33	23.16		
15	16QAM	36	0	22.33	22.29	22.21	23	1.5
15	16QAM	36	20	22.23	22.27	22.23		
15	16QAM	36	39	22.26	22.35	22.22		
15	16QAM	75	0	22.28	22.27	22.23	23	1.5
15	64QAM	1	0	22.27	22.38	22.20		
15	64QAM	1	37	22.31	22.30	22.18		
15	64QAM	1	74	22.28	22.30	22.19		



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15	64QAM	36	0	21.26	21.30	21.16	22	2.5
15	64QAM	36	20	21.28	21.35	21.23		
15	64QAM	36	39	21.29	21.33	21.13		
15	64QAM	75	0	21.25	21.31	21.17		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	23.82	23.83	23.66	24.5	0
10	QPSK	1	25	23.75	23.84	23.69		
10	QPSK	1	49	23.73	23.80	23.67		
10	QPSK	25	0	23.22	23.30	23.19	24	0.5
10	QPSK	25	12	23.31	23.28	23.17		
10	QPSK	25	25	23.24	23.27	23.15		
10	QPSK	50	0	23.22	23.24	23.24	24	0.5
10	16QAM	1	0	23.25	23.35	23.20		
10	16QAM	1	25	23.23	23.31	23.22		
10	16QAM	1	49	23.30	23.34	23.17	23	1.5
10	16QAM	25	0	22.30	22.34	22.23		
10	16QAM	25	12	22.28	22.26	22.24		
10	16QAM	25	25	22.30	22.34	22.22	23	1.5
10	16QAM	50	0	22.27	22.27	22.23		
10	64QAM	1	0	22.30	22.36	22.22		
10	64QAM	1	25	22.28	22.29	22.20	22	2.5
10	64QAM	1	49	22.33	22.31	22.18		
10	64QAM	25	0	21.26	21.34	21.13		
10	64QAM	25	12	21.28	21.35	21.21	22	2.5
10	64QAM	25	25	21.32	21.32	21.13		
10	64QAM	50	0	21.23	21.33	21.20		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	23.79	23.83	23.68	24.5	0
5	QPSK	1	12	23.74	23.81	23.70		
5	QPSK	1	24	23.78	23.78	23.68		
5	QPSK	12	0	23.26	23.30	23.20	24	0.5
5	QPSK	12	7	23.27	23.25	23.21		
5	QPSK	12	13	23.27	23.32	23.18		
5	QPSK	25	0	23.23	23.23	23.21	24	0.5
5	16QAM	1	0	23.29	23.31	23.22		
5	16QAM	1	12	23.25	23.34	23.21		
5	16QAM	1	24	23.29	23.35	23.20	23	1.5
5	16QAM	12	0	22.30	22.35	22.20		
5	16QAM	12	7	22.28	22.29	22.21		
5	16QAM	12	13	22.27	22.35	22.21	23	1.5
5	16QAM	25	0	22.26	22.26	22.25		
5	64QAM	1	0	22.27	22.33	22.16		
5	64QAM	1	12	22.29	22.27	22.19	22	2.5
5	64QAM	1	24	22.33	22.30	22.17		
5	64QAM	12	0	21.25	21.33	21.14		
5	64QAM	12	7	21.26	21.32	21.21	22	2.5
5	64QAM	12	13	21.31	21.35	21.16		
5	64QAM	25	0	21.22	21.29	21.16		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	23.79	23.82	23.71	24.5	0
3	QPSK	1	8	23.74	23.81	23.69		
3	QPSK	1	14	23.73	23.78	23.65		



3	QPSK	8	0	23.28	23.32	23.18	24	0.5
3	QPSK	8	4	23.25	23.24	23.20		
3	QPSK	8	7	23.23	23.29	23.16		
3	QPSK	15	0	23.26	23.25	23.20	24	0.5
3	16QAM	1	0	23.31	23.35	23.19		
3	16QAM	1	8	23.24	23.30	23.20		
3	16QAM	1	14	23.32	23.31	23.21	23	1.5
3	16QAM	8	0	22.32	22.29	22.19		
3	16QAM	8	4	22.27	22.29	22.24		
3	16QAM	8	7	22.30	22.31	22.22	23	1.5
3	16QAM	15	0	22.24	22.25	22.26		
3	64QAM	1	0	22.29	22.36	22.21		
3	64QAM	1	8	22.29	22.32	22.19	22	2.5
3	64QAM	1	14	22.33	22.32	22.16		
3	64QAM	8	0	21.29	21.33	21.17		
3	64QAM	8	4	21.27	21.33	21.19	22	2.5
3	64QAM	8	7	21.30	21.30	21.16		
3	64QAM	15	0	21.24	21.32	21.19		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	23.80	23.81	23.67	24.5	0
1.4	QPSK	1	3	23.78	23.79	23.68		
1.4	QPSK	1	5	23.74	23.82	23.65		
1.4	QPSK	3	0	23.77	23.80	23.67		
1.4	QPSK	3	1	23.77	23.80	23.71		
1.4	QPSK	3	3	23.73	23.83	23.70	24	0.5
1.4	QPSK	6	0	23.28	23.30	23.18		
1.4	16QAM	1	0	23.27	23.33	23.20	24	0.5
1.4	16QAM	1	3	23.26	23.31	23.22		
1.4	16QAM	1	5	23.24	23.32	23.19		
1.4	16QAM	3	0	23.31	23.30	23.16		
1.4	16QAM	3	1	23.29	23.32	23.18		
1.4	16QAM	3	3	23.23	23.29	23.20	23	1.5
1.4	16QAM	6	0	22.28	22.32	22.18		
1.4	64QAM	1	0	22.25	22.31	22.21		
1.4	64QAM	1	3	22.23	22.29	22.18		
1.4	64QAM	1	5	22.28	22.30	22.20		
1.4	64QAM	3	0	22.30	22.29	22.19	23	1.5
1.4	64QAM	3	1	22.26	22.29	22.20		
1.4	64QAM	3	3	22.28	22.31	22.17		
1.4	64QAM	6	0	21.29	21.32	21.15	22	2.5



LTE Band 71								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	683	688		
20	QPSK	1	0	23.91	24.02	23.93	25	0
20	QPSK	1	49	23.83	23.96	23.81		
20	QPSK	1	99	23.80	23.88	23.78		
20	QPSK	50	0	23.01	23.06	22.95	24	1
20	QPSK	50	24	22.94	22.97	22.90		
20	QPSK	50	50	22.79	22.87	22.85		
20	QPSK	100	0	22.91	23.01	22.87	24	1
20	16QAM	1	0	22.92	23.02	22.99		
20	16QAM	1	49	22.84	23.02	22.86		
20	16QAM	1	99	22.76	22.93	22.76	23	2
20	16QAM	50	0	22.05	22.05	22.00		
20	16QAM	50	24	21.98	21.99	21.89		
20	16QAM	50	50	21.80	21.85	21.89	23	2
20	16QAM	100	0	21.87	21.96	21.92		
20	64QAM	1	0	21.93	21.99	22.04		
20	64QAM	1	49	21.80	22.00	21.85	23	2
20	64QAM	1	99	21.75	21.95	21.78		
20	64QAM	50	0	21.02	21.07	21.00		
20	64QAM	50	24	20.94	20.95	20.92	22	3
20	64QAM	50	50	20.84	20.83	20.88		
20	64QAM	100	0	20.85	21.03	20.93		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.83	23.94	23.83	25	0
15	QPSK	1	37	23.76	23.88	23.76		
15	QPSK	1	74	23.70	23.85	23.65		
15	QPSK	36	0	22.90	22.94	22.83	24	1
15	QPSK	36	20	22.85	22.94	22.83		
15	QPSK	36	39	22.76	22.76	22.76		
15	QPSK	75	0	22.87	22.87	22.83	24	1
15	16QAM	1	0	22.88	22.92	22.92		
15	16QAM	1	37	22.75	22.94	22.80		
15	16QAM	1	74	22.70	22.80	22.67	23	2
15	16QAM	36	0	22.00	21.99	21.89		
15	16QAM	36	20	21.93	21.88	21.85		
15	16QAM	36	39	21.75	21.78	21.75	23	2
15	16QAM	75	0	21.72	21.81	21.84		
15	64QAM	1	0	21.82	21.91	21.95		
15	64QAM	1	37	21.65	21.91	21.71	23	2
15	64QAM	1	74	21.70	21.82	21.64		
15	64QAM	36	0	20.89	21.01	20.91		
15	64QAM	36	20	20.81	20.89	20.84	22	3
15	64QAM	36	39	20.81	20.68	20.83		
15	64QAM	75	0	20.81	20.94	20.89		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.76	23.95	23.79	25	0
10	QPSK	1	25	23.73	23.83	23.76		
10	QPSK	1	49	23.76	23.74	23.65		
10	QPSK	25	0	22.96	22.96	22.91	24	1



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10	QPSK	25	12	22.89	22.90	22.77		
10	QPSK	25	25	22.71	22.73	22.71		
10	QPSK	50	0	22.81	22.86	22.80		
10	16QAM	1	0	22.79	22.95	22.96	24	1
10	16QAM	1	25	22.79	22.93	22.72		
10	16QAM	1	49	22.61	22.90	22.68		
10	16QAM	25	0	22.00	21.93	21.95	23	2
10	16QAM	25	12	21.93	21.85	21.81		
10	16QAM	25	25	21.75	21.78	21.83		
10	16QAM	50	0	21.79	21.93	21.83	23	2
10	64QAM	1	0	21.89	21.91	21.89		
10	64QAM	1	25	21.74	21.94	21.70		
10	64QAM	1	49	21.64	21.82	21.71	22	3
10	64QAM	25	0	20.88	20.92	20.85		
10	64QAM	25	12	20.83	20.89	20.84		
10	64QAM	25	25	20.79	20.77	20.84		
10	64QAM	50	0	20.75	20.96	20.83		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.77	23.97	23.88	25	0
5	QPSK	1	12	23.71	23.84	23.71		
5	QPSK	1	24	23.70	23.84	23.64		
5	QPSK	12	0	22.96	23.01	22.90	24	1
5	QPSK	12	7	22.90	22.90	22.75		
5	QPSK	12	13	22.71	22.75	22.71		
5	QPSK	25	0	22.85	22.94	22.74	24	1
5	16QAM	1	0	22.88	22.87	22.96		
5	16QAM	1	12	22.77	22.93	22.72		
5	16QAM	1	24	22.64	22.85	22.65	23	2
5	16QAM	12	0	21.91	21.91	21.89		
5	16QAM	12	7	21.88	21.89	21.79		
5	16QAM	12	13	21.69	21.76	21.81	23	2
5	16QAM	25	0	21.76	21.91	21.84		
5	64QAM	1	0	21.83	21.93	21.93		
5	64QAM	1	12	21.70	21.89	21.78	22	3
5	64QAM	1	24	21.66	21.87	21.66		
5	64QAM	12	0	20.97	21.03	20.85		
5	64QAM	12	7	20.81	20.82	20.86		
5	64QAM	12	13	20.80	20.68	20.82		
5	64QAM	25	0	20.78	20.99	20.78		



Ant2

LTE Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	24.26	24.38	24.21	24.5	0
20	QPSK	1	49	24.26	24.31	24.16		
20	QPSK	1	99	24.24	24.36	24.26		
20	QPSK	50	0	23.23	23.38	23.18	23.5	1
20	QPSK	50	24	23.23	23.32	23.26		
20	QPSK	50	50	23.28	23.35	23.21		
20	QPSK	100	0	23.28	23.45	23.22	23.5	1
20	16QAM	1	0	23.27	23.35	23.25		
20	16QAM	1	49	23.20	23.33	23.22		
20	16QAM	1	99	23.29	23.39	23.27	22.5	2
20	16QAM	50	0	22.25	22.41	22.23		
20	16QAM	50	24	22.20	22.40	22.29		
20	16QAM	50	50	22.30	22.37	22.22	22.5	2
20	16QAM	100	0	22.24	22.44	22.30		
20	64QAM	1	0	22.23	22.42	22.21		
20	64QAM	1	49	22.27	22.33	22.22	22.5	2
20	64QAM	1	99	22.23	22.41	22.24		
20	64QAM	50	0	21.24	21.35	21.21		
20	64QAM	50	24	21.27	21.40	21.22	21.5	3
20	64QAM	50	50	21.24	21.43	21.28		
20	64QAM	100	0	21.24	21.44	21.30		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	24.24	24.37	24.19		
15	QPSK	1	37	24.27	24.29	24.17	24.5	0
15	QPSK	1	74	24.22	24.32	24.24		
15	QPSK	36	0	23.22	23.39	23.14	23.5	1
15	QPSK	36	20	23.26	23.37	23.24		
15	QPSK	36	39	23.27	23.35	23.23		
15	QPSK	75	0	23.32	23.41	23.19	23.5	1
15	16QAM	1	0	23.25	23.40	23.25		
15	16QAM	1	37	23.25	23.37	23.18		
15	16QAM	1	74	23.32	23.43	23.28	22.5	2
15	16QAM	36	0	22.27	22.37	22.20		
15	16QAM	36	20	22.23	22.43	22.28		
15	16QAM	36	39	22.31	22.41	22.25	22.5	2
15	16QAM	75	0	22.26	22.46	22.29		
15	64QAM	1	0	22.18	22.46	22.16		
15	64QAM	1	37	22.32	22.34	22.21	22.5	2
15	64QAM	1	74	22.24	22.45	22.21		
15	64QAM	36	0	21.19	21.36	21.24		
15	64QAM	36	20	21.22	21.38	21.21	21.5	3
15	64QAM	36	39	21.24	21.41	21.25		
15	64QAM	75	0	21.22	21.41	21.30		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	24.24	24.33	24.24		
10	QPSK	1	25	24.28	24.36	24.16	24.5	0
10	QPSK	1	49	24.28	24.37	24.31		



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10	QPSK	25	0	23.21	23.40	23.14	23.5	1
10	QPSK	25	12	23.19	23.37	23.29		
10	QPSK	25	25	23.26	23.40	23.23		
10	QPSK	50	0	23.31	23.43	23.26		
10	16QAM	1	0	23.23	23.38	23.21	23.5	1
10	16QAM	1	25	23.20	23.32	23.24		
10	16QAM	1	49	23.25	23.37	23.25		
10	16QAM	25	0	22.29	22.41	22.26	22.5	2
10	16QAM	25	12	22.18	22.45	22.25		
10	16QAM	25	25	22.27	22.37	22.21		
10	16QAM	50	0	22.27	22.40	22.29		
10	64QAM	1	0	22.26	22.46	22.22	22.5	2
10	64QAM	1	25	22.30	22.30	22.18		
10	64QAM	1	49	22.19	22.46	22.20		
10	64QAM	25	0	21.22	21.35	21.23	21.5	3
10	64QAM	25	12	21.31	21.39	21.20		
10	64QAM	25	25	21.28	21.46	21.31		
10	64QAM	50	0	21.24	21.48	21.26		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	24.27	24.37	24.21	24.5	0
5	QPSK	1	12	24.26	24.32	24.14		
5	QPSK	1	24	24.21	24.31	24.21		
5	QPSK	12	0	23.27	23.34	23.15	23.5	1
5	QPSK	12	7	23.20	23.33	23.25		
5	QPSK	12	13	23.25	23.32	23.23		
5	QPSK	25	0	23.23	23.50	23.25		
5	16QAM	1	0	23.30	23.31	23.26	23.5	1
5	16QAM	1	12	23.22	23.29	23.20		
5	16QAM	1	24	23.27	23.41	23.32		
5	16QAM	12	0	22.26	22.45	22.27	22.5	2
5	16QAM	12	7	22.18	22.44	22.25		
5	16QAM	12	13	22.26	22.35	22.27		
5	16QAM	25	0	22.26	22.47	22.34		
5	64QAM	1	0	22.19	22.46	22.20	22.5	2
5	64QAM	1	12	22.26	22.29	22.26		
5	64QAM	1	24	22.18	22.41	22.19		
5	64QAM	12	0	21.25	21.39	21.18	21.5	3
5	64QAM	12	7	21.26	21.41	21.25		
5	64QAM	12	13	21.23	21.40	21.28		
5	64QAM	25	0	21.27	21.45	21.26		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	24.25	24.30	24.22	24.5	0
3	QPSK	1	8	24.26	24.35	24.16		
3	QPSK	1	14	24.26	24.35	24.22		
3	QPSK	8	0	23.25	23.42	23.18	23.5	1
3	QPSK	8	4	23.25	23.29	23.21		
3	QPSK	8	7	23.33	23.32	23.23		
3	QPSK	15	0	23.32	23.48	23.20		
3	16QAM	1	0	23.28	23.36	23.30	23.5	1
3	16QAM	1	8	23.19	23.33	23.20		
3	16QAM	1	14	23.26	23.37	23.23		
3	16QAM	8	0	22.24	22.39	22.22	22.5	2
3	16QAM	8	4	22.16	22.44	22.28		



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3	16QAM	8	7	22.27	22.33	22.27		
3	16QAM	15	0	22.19	22.47	22.27		
3	64QAM	1	0	22.24	22.46	22.26		
3	64QAM	1	8	22.31	22.30	22.24	22.5	2
3	64QAM	1	14	22.21	22.38	22.21		
3	64QAM	8	0	21.28	21.35	21.20		
3	64QAM	8	4	21.26	21.43	21.20	21.5	3
3	64QAM	8	7	21.28	21.44	21.27		
3	64QAM	15	0	21.19	21.48	21.32		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	24.24	24.34	24.20	24.5	0
1.4	QPSK	1	3	24.30	24.33	24.16		
1.4	QPSK	1	5	24.26	24.32	24.31		
1.4	QPSK	3	0	24.29	24.35	24.24		
1.4	QPSK	3	1	24.23	24.30	24.14		
1.4	QPSK	3	3	24.26	24.32	24.23		
1.4	QPSK	6	0	23.24	23.36	23.17	23.5	1
1.4	16QAM	1	0	23.26	23.29	23.17	23.5	1
1.4	16QAM	1	3	23.21	23.41	23.23		
1.4	16QAM	1	5	23.30	23.42	23.26		
1.4	16QAM	3	0	23.23	23.28	23.19		
1.4	16QAM	3	1	23.25	23.38	23.28		
1.4	16QAM	3	3	23.30	23.37	23.18		
1.4	16QAM	6	0	22.24	22.43	22.20	22.5	2
1.4	64QAM	1	0	22.26	22.35	22.21	22.5	2
1.4	64QAM	1	3	22.21	22.37	22.22		
1.4	64QAM	1	5	22.25	22.39	22.25		
1.4	64QAM	3	0	22.30	22.28	22.16		
1.4	64QAM	3	1	22.23	22.33	22.28		
1.4	64QAM	3	3	22.24	22.35	22.24		
1.4	64QAM	6	0	21.22	21.41	21.17	21.5	3

LTE Band 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	23.99	24.15	23.94	25	0
10	QPSK	1	25	23.95	24.06	23.94		
10	QPSK	1	49	23.90	23.96	23.92		
10	QPSK	25	0	22.99	23.10	22.94	24	1
10	QPSK	25	12	22.93	23.02	22.85		
10	QPSK	25	25	22.90	23.04	23.00		
10	QPSK	50	0	22.99	23.11	23.01	24	1
10	16QAM	1	0	23.22	23.26	23.03		
10	16QAM	1	25	22.92	23.09	22.95		
10	16QAM	1	49	23.06	22.92	22.91	23	2
10	16QAM	25	0	22.04	22.01	21.97		
10	16QAM	25	12	21.83	22.10	22.03		
10	16QAM	25	25	21.90	21.98	22.00	23	2
10	16QAM	50	0	21.91	21.99	21.86		
10	64QAM	1	0	22.11	22.15	22.12		
10	64QAM	1	25	22.03	22.06	21.86	23	2
10	64QAM	1	49	22.09	21.86	21.93		
10	64QAM	25	0	21.13	21.11	20.93		
10	64QAM	25	12	21.09	21.09	21.20	22	3
10	64QAM	25	25	20.93	20.93	21.05		
10	64QAM	50	0	21.08	21.08	20.90		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.86	24.08	23.90	25	0
5	QPSK	1	12	23.81	24.01	23.86		
5	QPSK	1	24	23.83	23.89	23.84		
5	QPSK	12	0	22.88	22.96	22.91	24	1
5	QPSK	12	7	22.87	22.92	22.72		
5	QPSK	12	13	22.84	22.94	22.91		
5	QPSK	25	0	22.85	22.97	22.98	24	1
5	16QAM	1	0	23.14	23.19	22.97		
5	16QAM	1	12	22.84	23.02	22.88		
5	16QAM	1	24	22.94	22.77	22.86	23	2
5	16QAM	12	0	21.99	21.93	21.85		
5	16QAM	12	7	21.69	21.95	21.91		
5	16QAM	12	13	21.78	21.91	21.93	23	2
5	16QAM	25	0	21.78	21.90	21.79		
5	64QAM	1	0	22.05	22.10	22.03		
5	64QAM	1	12	21.89	21.93	21.74	23	2
5	64QAM	1	24	22.02	21.71	21.79		
5	64QAM	12	0	21.03	21.05	20.85		
5	64QAM	12	7	21.01	20.98	21.11	22	3
5	64QAM	12	13	20.78	20.90	20.96		
5	64QAM	25	0	20.96	21.00	20.81		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.94	24.09	23.87	25	0
3	QPSK	1	8	23.86	23.99	23.88		
3	QPSK	1	14	23.76	23.84	23.79		
3	QPSK	8	0	22.91	22.99	22.89	24	1

3	QPSK	8	4	22.83	22.94	22.72		
3	QPSK	8	7	22.84	22.94	22.93		
3	QPSK	15	0	22.95	22.98	22.92		
3	16QAM	1	0	23.07	23.20	22.96	24	1
3	16QAM	1	8	22.87	23.00	22.86		
3	16QAM	1	14	22.93	22.85	22.87		
3	16QAM	8	0	21.94	21.90	21.92	23	2
3	16QAM	8	4	21.78	22.02	21.94		
3	16QAM	8	7	21.81	21.85	21.97		
3	16QAM	15	0	21.79	21.86	21.78		
3	64QAM	1	0	22.07	22.01	22.04	23	2
3	64QAM	1	8	21.98	21.99	21.75		
3	64QAM	1	14	22.02	21.72	21.89		
3	64QAM	8	0	20.98	20.97	20.83	22	3
3	64QAM	8	4	21.01	21.01	21.16		
3	64QAM	8	7	20.82	20.80	20.98		
3	64QAM	15	0	21.01	20.98	20.81		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.84	24.01	23.89	25	0
1.4	QPSK	1	3	23.81	23.95	23.89		
1.4	QPSK	1	5	23.77	23.84	23.86		
1.4	QPSK	3	0	23.91	24.05	23.82		
1.4	QPSK	3	1	23.85	23.91	23.76		
1.4	QPSK	3	3	23.78	23.92	23.89		
1.4	QPSK	6	0	22.88	23.05	22.87	24	1
1.4	16QAM	1	0	23.15	23.12	22.95	24	1
1.4	16QAM	1	3	22.79	22.98	22.87		
1.4	16QAM	1	5	22.97	22.78	22.80		
1.4	16QAM	3	0	22.92	22.92	22.94		
1.4	16QAM	3	1	22.72	23.00	22.99		
1.4	16QAM	3	3	22.81	22.90	22.86		
1.4	16QAM	6	0	21.81	21.91	21.79	23	2
1.4	64QAM	1	0	22.01	22.04	21.99	23	2
1.4	64QAM	1	3	21.95	21.94	21.79		
1.4	64QAM	1	5	21.97	21.76	21.78		
1.4	64QAM	3	0	22.02	22.04	21.86		
1.4	64QAM	3	1	22.04	22.00	22.16		
1.4	64QAM	3	3	21.82	21.78	21.91		
1.4	64QAM	6	0	20.94	21.01	20.80	22	3



LTE Band 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	24	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.87	23.22	23.00	24	0
20	QPSK	1	49	22.80	23.14	22.77		
20	QPSK	1	99	22.77	23.19	22.94		
20	QPSK	50	0	22.58	22.61	22.54	23.5	0.5
20	QPSK	50	24	22.47	22.52	22.50		
20	QPSK	50	50	22.48	22.56	22.43		
20	QPSK	100	0	22.42	22.48	22.30	23.5	0.5
20	16QAM	1	0	22.55	22.69	22.66		
20	16QAM	1	49	22.42	22.55	22.42		
20	16QAM	1	99	22.41	22.51	22.43	22.5	1.5
20	16QAM	50	0	21.47	21.56	21.44		
20	16QAM	50	24	21.45	21.52	21.47		
20	16QAM	50	50	21.38	21.49	21.36	22.5	1.5
20	16QAM	100	0	21.29	21.43	21.26		
20	64QAM	1	0	21.52	21.57	21.47		
20	64QAM	1	49	21.31	21.44	21.28	22.5	1.5
20	64QAM	1	99	21.27	21.42	21.32		
20	64QAM	50	0	20.27	20.41	20.27		
20	64QAM	50	24	20.27	20.37	20.25	21.5	2.5
20	64QAM	50	50	20.25	20.32	20.16		
20	64QAM	100	0	20.18	20.34	20.28		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.76	23.07	22.93	24	0
15	QPSK	1	37	22.69	23.05	22.71		
15	QPSK	1	74	22.71	23.14	22.91		
15	QPSK	36	0	22.50	22.44	22.37	23.5	0.5
15	QPSK	36	20	22.39	22.34	22.42		
15	QPSK	36	39	22.42	22.45	22.36		
15	QPSK	75	0	22.36	22.39	22.24	23.5	0.5
15	16QAM	1	0	22.52	22.58	22.64		
15	16QAM	1	37	22.37	22.38	22.32		
15	16QAM	1	74	22.27	22.39	22.36	22.5	1.5
15	16QAM	36	0	21.40	21.42	21.31		
15	16QAM	36	20	21.40	21.44	21.31		
15	16QAM	36	39	21.22	21.34	21.19	22.5	1.5
15	16QAM	75	0	21.26	21.26	21.14		
15	64QAM	1	0	21.42	21.48	21.40		
15	64QAM	1	37	21.14	21.35	21.12	22.5	1.5
15	64QAM	1	74	21.22	21.32	21.20		
15	64QAM	36	0	20.16	20.29	20.18		
15	64QAM	36	20	20.25	20.21	20.12	21.5	2.5
15	64QAM	36	39	20.22	20.14	20.12		
15	64QAM	75	0	20.02	20.25	20.18		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.72	23.06	22.85	24	0
10	QPSK	1	25	22.66	23.03	22.73		
10	QPSK	1	49	22.67	23.07	22.80		
10	QPSK	25	0	22.53	22.51	22.51	23.5	0.5

10	QPSK	25	12	22.43	22.43	22.41		
10	QPSK	25	25	22.44	22.44	22.29		
10	QPSK	50	0	22.33	22.34	22.25		
10	16QAM	1	0	22.40	22.58	22.59	23.5	0.5
10	16QAM	1	25	22.30	22.42	22.34		
10	16QAM	1	49	22.30	22.49	22.32		
10	16QAM	25	0	21.43	21.47	21.33	22.5	1.5
10	16QAM	25	12	21.27	21.45	21.30		
10	16QAM	25	25	21.34	21.31	21.22		
10	16QAM	50	0	21.17	21.30	21.16	22.5	1.5
10	64QAM	1	0	21.37	21.43	21.31		
10	64QAM	1	25	21.27	21.39	21.24		
10	64QAM	1	49	21.21	21.34	21.26	21.5	2.5
10	64QAM	25	0	20.10	20.23	20.21		
10	64QAM	25	12	20.16	20.21	20.14		
10	64QAM	25	25	20.13	20.24	20.02	21.5	2.5
10	64QAM	50	0	20.12	20.24	20.20		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.84	23.11	22.86	24	0
5	QPSK	1	12	22.76	23.03	22.71		
5	QPSK	1	24	22.71	23.09	22.76		
5	QPSK	12	0	22.50	22.53	22.46	23.5	0.5
5	QPSK	12	7	22.44	22.39	22.41		
5	QPSK	12	13	22.38	22.39	22.40		
5	QPSK	25	0	22.38	22.43	22.27	23.5	0.5
5	16QAM	1	0	22.48	22.58	22.51		
5	16QAM	1	12	22.33	22.46	22.38		
5	16QAM	1	24	22.36	22.37	22.25	22.5	1.5
5	16QAM	12	0	21.41	21.41	21.31		
5	16QAM	12	7	21.32	21.43	21.35		
5	16QAM	12	13	21.32	21.39	21.32	22.5	1.5
5	16QAM	25	0	21.16	21.27	21.13		
5	64QAM	1	0	21.42	21.50	21.44		
5	64QAM	1	12	21.16	21.34	21.21	21.5	2.5
5	64QAM	1	24	21.22	21.29	21.23		
5	64QAM	12	0	20.19	20.28	20.11		
5	64QAM	12	7	20.11	20.28	20.08	21.5	2.5
5	64QAM	12	13	20.22	20.26	19.99		
5	64QAM	25	0	20.07	20.25	20.15		



LTE Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	23.95	24.02	23.87	25	0
20	QPSK	1	49	23.94	23.93	23.80		
20	QPSK	1	99	23.82	23.97	23.95		
20	QPSK	50	0	22.74	22.87	22.73	24	1
20	QPSK	50	24	22.70	22.83	22.71		
20	QPSK	50	50	22.79	22.75	22.81		
20	QPSK	100	0	22.70	22.90	22.82	24	1
20	16QAM	1	0	22.98	22.92	22.81		
20	16QAM	1	49	22.92	22.90	22.90		
20	16QAM	1	99	22.80	23.03	22.88	23	2
20	16QAM	50	0	21.81	21.72	21.80		
20	16QAM	50	24	21.81	21.94	21.76		
20	16QAM	50	50	21.76	21.97	21.91	23	2
20	16QAM	100	0	21.71	21.95	21.95		
20	64QAM	1	0	22.02	22.00	21.73		
20	64QAM	1	49	22.01	21.99	22.00	23	2
20	64QAM	1	99	21.69	21.98	21.86		
20	64QAM	50	0	20.92	20.88	20.76		
20	64QAM	50	24	20.85	21.05	20.76	22	3
20	64QAM	50	50	20.79	20.90	20.90		
20	64QAM	100	0	20.72	20.85	20.96		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	23.77	23.88	23.64		
15	QPSK	1	37	23.87	23.75	23.76	25	0
15	QPSK	1	74	23.70	23.77	23.84		
15	QPSK	36	0	22.65	22.84	22.54	24	1
15	QPSK	36	20	22.59	22.75	22.57		
15	QPSK	36	39	22.59	22.68	22.77		
15	QPSK	75	0	22.50	22.71	22.63	24	1
15	16QAM	1	0	22.77	22.69	22.67		
15	16QAM	1	37	22.89	22.77	22.78		
15	16QAM	1	74	22.66	22.79	22.79	23	2
15	16QAM	36	0	21.77	21.54	21.63		
15	16QAM	36	20	21.77	21.75	21.63		
15	16QAM	36	39	21.68	21.90	21.87	23	2
15	16QAM	75	0	21.65	21.91	21.82		
15	64QAM	1	0	21.84	21.79	21.59		
15	64QAM	1	37	21.97	21.87	21.82	23	2
15	64QAM	1	74	21.58	21.77	21.75		
15	64QAM	36	0	20.67	20.83	20.69		
15	64QAM	36	20	20.79	20.89	20.67	22	3
15	64QAM	36	39	20.70	20.85	20.68		
15	64QAM	75	0	20.45	20.68	20.71		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	23.75	23.95	23.70		
10	QPSK	1	25	23.89	23.78	23.75	25	0
10	QPSK	1	49	23.70	23.81	23.78		
10	QPSK	25	0	22.49	22.81	22.65	24	1



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10	QPSK	25	12	22.45	22.70	22.59		
10	QPSK	25	25	22.59	22.55	22.73		
10	QPSK	50	0	22.60	22.65	22.62		
10	16QAM	1	0	22.88	22.86	22.70	24	1
10	16QAM	1	25	22.68	22.74	22.78		
10	16QAM	1	49	22.63	22.97	22.67		
10	16QAM	25	0	21.56	21.58	21.74	23	2
10	16QAM	25	12	21.64	21.83	21.73		
10	16QAM	25	25	21.67	21.94	21.84		
10	16QAM	50	0	21.48	21.87	21.89	23	2
10	64QAM	1	0	21.88	21.89	21.54		
10	64QAM	1	25	21.84	21.83	21.77		
10	64QAM	1	49	21.65	21.71	21.78	22	3
10	64QAM	25	0	20.86	20.82	20.54		
10	64QAM	25	12	20.71	20.80	20.67		
10	64QAM	25	25	20.74	20.68	20.64		
10	64QAM	50	0	20.60	20.67	20.88		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	23.76	23.90	23.77	25	0
5	QPSK	1	12	23.72	23.83	23.65		
5	QPSK	1	24	23.73	23.83	23.86		
5	QPSK	12	0	22.53	22.83	22.56	24	1
5	QPSK	12	7	22.59	22.58	22.51		
5	QPSK	12	13	22.65	22.49	22.62		
5	QPSK	25	0	22.52	22.77	22.71	24	1
5	16QAM	1	0	22.72	22.79	22.55		
5	16QAM	1	12	22.70	22.82	22.71		
5	16QAM	1	24	22.68	22.84	22.83	23	2
5	16QAM	12	0	21.63	21.60	21.63		
5	16QAM	12	7	21.61	21.69	21.67		
5	16QAM	12	13	21.49	21.77	21.66	23	2
5	16QAM	25	0	21.54	21.86	21.84		
5	64QAM	1	0	21.81	21.77	21.59		
5	64QAM	1	12	21.88	21.93	21.78	23	2
5	64QAM	1	24	21.76	21.92	21.78		
5	64QAM	12	0	20.69	20.63	20.61		
5	64QAM	12	7	20.74	20.82	20.59	22	3
5	64QAM	12	13	20.73	20.80	20.77		
5	64QAM	25	0	20.48	20.80	20.77		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	23.89	23.92	23.63	25	0
3	QPSK	1	8	23.74	23.89	23.60		
3	QPSK	1	14	23.75	23.70	23.88		
3	QPSK	8	0	22.56	22.66	22.56	24	1
3	QPSK	8	4	22.54	22.59	22.49		
3	QPSK	8	7	22.68	22.51	22.57		
3	QPSK	15	0	22.64	22.78	22.70	24	1
3	16QAM	1	0	22.74	22.88	22.72		
3	16QAM	1	8	22.87	22.64	22.83		
3	16QAM	1	14	22.71	22.81	22.64	23	2
3	16QAM	8	0	21.59	21.66	21.66		
3	16QAM	8	4	21.64	21.90	21.61		
3	16QAM	8	7	21.63	21.89	21.80		



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3	16QAM	15	0	21.63	21.71	21.90		
3	64QAM	1	0	21.98	21.79	21.68	23	2
3	64QAM	1	8	21.93	21.82	21.87		
3	64QAM	1	14	21.62	21.91	21.68		
3	64QAM	8	0	20.83	20.81	20.51	22	3
3	64QAM	8	4	20.73	20.87	20.50		
3	64QAM	8	7	20.53	20.78	20.81		
3	64QAM	15	0	20.54	20.80	20.78		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	23.75	23.79	23.76	25	0
1.4	QPSK	1	3	23.81	23.69	23.60		
1.4	QPSK	1	5	23.72	23.89	23.75		
1.4	QPSK	3	0	23.70	23.62	23.56		
1.4	QPSK	3	1	23.57	23.68	23.64		
1.4	QPSK	3	3	23.60	23.50	23.62		
1.4	QPSK	6	0	22.60	22.64	22.55	24	1
1.4	16QAM	1	0	22.79	22.88	22.75	24	1
1.4	16QAM	1	3	22.82	22.68	22.75		
1.4	16QAM	1	5	22.57	22.92	22.79		
1.4	16QAM	3	0	22.75	22.57	22.66		
1.4	16QAM	3	1	22.78	22.88	22.56		
1.4	16QAM	3	3	22.58	22.70	22.72		
1.4	16QAM	6	0	21.60	21.87	21.69	23	2
1.4	64QAM	1	0	21.92	21.83	21.53	23	2
1.4	64QAM	1	3	21.88	21.74	21.89		
1.4	64QAM	1	5	21.69	21.87	21.59		
1.4	64QAM	3	0	21.74	21.80	21.70		
1.4	64QAM	3	1	21.77	21.98	21.71		
1.4	64QAM	3	3	21.55	21.64	21.81		
1.4	64QAM	6	0	20.50	20.81	20.84	22	3



Reduced Power Mode for DSI 3

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LTE Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	13.98	14.07	13.82	14.7	0
20	QPSK	1	49	13.87	13.97	13.82		
20	QPSK	1	99	13.76	13.88	13.77		
20	QPSK	50	0	13.90	13.98	13.87	14.7	0
20	QPSK	50	24	13.74	13.83	13.74		
20	QPSK	50	50	13.83	13.87	13.85		
20	QPSK	100	0	13.88	13.94	13.79	14.7	0
20	16QAM	1	0	13.79	13.99	13.88		
20	16QAM	1	49	13.94	14.01	13.91		
20	16QAM	1	99	13.83	13.81	13.83	14.7	0
20	16QAM	50	0	13.90	13.98	13.86		
20	16QAM	50	24	13.84	13.92	13.89		
20	16QAM	50	50	13.81	13.84	13.70	14.7	0
20	16QAM	100	0	13.80	13.90	13.81		
20	64QAM	1	0	13.80	13.95	13.73		
20	64QAM	1	49	13.78	13.90	13.84	14.7	0
20	64QAM	1	99	13.87	13.92	13.79		
20	64QAM	50	0	13.81	13.84	13.73		
20	64QAM	50	24	13.94	13.88	13.91	14.7	0
20	64QAM	50	50	13.81	13.99	13.85		
20	64QAM	100	0	13.83	13.92	13.78		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	13.94	13.96	13.72	14.7	0
15	QPSK	1	37	13.79	13.82	13.72		
15	QPSK	1	74	13.66	13.73	13.70		
15	QPSK	36	0	13.86	13.94	13.76	14.7	0
15	QPSK	36	20	13.66	13.70	13.61		
15	QPSK	36	39	13.69	13.77	13.74		
15	QPSK	75	0	13.75	13.84	13.71	14.7	0
15	16QAM	1	0	13.65	13.86	13.83		
15	16QAM	1	37	13.87	13.97	13.80		
15	16QAM	1	74	13.79	13.71	13.73	14.7	0
15	16QAM	36	0	13.83	13.88	13.80		
15	16QAM	36	20	13.75	13.84	13.81		
15	16QAM	36	39	13.68	13.73	13.60	14.7	0
15	16QAM	75	0	13.70	13.87	13.75		
15	64QAM	1	0	13.69	13.90	13.67		
15	64QAM	1	37	13.75	13.84	13.74	14.7	0
15	64QAM	1	74	13.76	13.89	13.71		
15	64QAM	36	0	13.76	13.69	13.66		
15	64QAM	36	20	13.83	13.81	13.81	14.7	0
15	64QAM	36	39	13.69	13.88	13.79		
15	64QAM	75	0	13.78	13.77	13.64		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	13.85	13.98	13.68	14.7	0
10	QPSK	1	25	13.72	13.84	13.75		



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10	QPSK	1	49	13.68	13.84	13.65		
10	QPSK	25	0	13.75	13.93	13.83		
10	QPSK	25	12	13.71	13.71	13.70		
10	QPSK	25	25	13.78	13.78	13.77	14.7	0
10	QPSK	50	0	13.80	13.79	13.72		
10	16QAM	1	0	13.76	13.86	13.78		
10	16QAM	1	25	13.88	13.96	13.81	14.7	0
10	16QAM	1	49	13.74	13.68	13.70		
10	16QAM	25	0	13.85	13.87	13.82		
10	16QAM	25	12	13.72	13.84	13.83	14.7	0
10	16QAM	25	25	13.69	13.70	13.56		
10	16QAM	50	0	13.76	13.87	13.76		
10	64QAM	1	0	13.75	13.88	13.61		
10	64QAM	1	25	13.68	13.82	13.70	14.7	0
10	64QAM	1	49	13.84	13.87	13.67		
10	64QAM	25	0	13.67	13.75	13.61		
10	64QAM	25	12	13.85	13.79	13.88	14.7	0
10	64QAM	25	25	13.69	13.88	13.73		
10	64QAM	50	0	13.69	13.84	13.68		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	13.89	14.03	13.75		
5	QPSK	1	12	13.74	13.91	13.74	14.7	0
5	QPSK	1	24	13.71	13.75	13.68		
5	QPSK	12	0	13.86	13.93	13.82		
5	QPSK	12	7	13.70	13.70	13.65	14.7	0
5	QPSK	12	13	13.76	13.80	13.75		
5	QPSK	25	0	13.77	13.79	13.68		
5	16QAM	1	0	13.66	13.90	13.82		
5	16QAM	1	12	13.86	13.94	13.79	14.7	0
5	16QAM	1	24	13.69	13.74	13.71		
5	16QAM	12	0	13.85	13.92	13.74		
5	16QAM	12	7	13.74	13.80	13.82	14.7	0
5	16QAM	12	13	13.67	13.81	13.57		
5	16QAM	25	0	13.72	13.75	13.68		
5	64QAM	1	0	13.73	13.88	13.63		
5	64QAM	1	12	13.68	13.86	13.73	14.7	0
5	64QAM	1	24	13.76	13.87	13.65		
5	64QAM	12	0	13.67	13.75	13.62		
5	64QAM	12	7	13.83	13.79	13.83	14.7	0
5	64QAM	12	13	13.76	13.94	13.79		
5	64QAM	25	0	13.68	13.78	13.64		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	13.94	13.93	13.77		
3	QPSK	1	8	13.83	13.92	13.76	14.7	0
3	QPSK	1	14	13.72	13.74	13.68		
3	QPSK	8	0	13.76	13.95	13.80		
3	QPSK	8	4	13.71	13.73	13.71	14.7	0
3	QPSK	8	7	13.76	13.76	13.75		
3	QPSK	15	0	13.76	13.85	13.68		
3	16QAM	1	0	13.67	13.86	13.74		
3	16QAM	1	8	13.79	13.91	13.80	14.7	0
3	16QAM	1	14	13.72	13.73	13.79		
3	16QAM	8	0	13.85	13.84	13.79	14.7	0



3	16QAM	8	4	13.75	13.87	13.78		
3	16QAM	8	7	13.73	13.71	13.55		
3	16QAM	15	0	13.72	13.79	13.77		
3	64QAM	1	0	13.76	13.84	13.66	14.7	0
3	64QAM	1	8	13.74	13.86	13.75		
3	64QAM	1	14	13.75	13.80	13.70		
3	64QAM	8	0	13.71	13.79	13.59	14.7	0
3	64QAM	8	4	13.85	13.80	13.78		
3	64QAM	8	7	13.68	13.92	13.70		
3	64QAM	15	0	13.72	13.77	13.64		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	13.88	13.93	13.75	14.7	0
1.4	QPSK	1	3	13.82	13.93	13.78		
1.4	QPSK	1	5	13.64	13.73	13.63		
1.4	QPSK	3	0	13.83	13.93	13.75		
1.4	QPSK	3	1	13.63	13.69	13.63		
1.4	QPSK	3	3	13.78	13.79	13.81		
1.4	QPSK	6	0	13.80	13.88	13.72	14.7	0
1.4	16QAM	1	0	13.66	13.87	13.79	14.7	0
1.4	16QAM	1	3	13.91	13.95	13.77		
1.4	16QAM	1	5	13.70	13.67	13.80		
1.4	16QAM	3	0	13.76	13.86	13.74		
1.4	16QAM	3	1	13.71	13.84	13.83		
1.4	16QAM	3	3	13.74	13.81	13.65		
1.4	16QAM	6	0	13.73	13.75	13.75	14.7	0
1.4	64QAM	1	0	13.75	13.89	13.69	14.7	0
1.4	64QAM	1	3	13.63	13.86	13.76		
1.4	64QAM	1	5	13.75	13.79	13.72		
1.4	64QAM	3	0	13.69	13.77	13.63		
1.4	64QAM	3	1	13.89	13.75	13.77		
1.4	64QAM	3	3	13.67	13.93	13.78		
1.4	64QAM	6	0	13.76	13.81	13.74	14.7	0



LTE Band 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	16.34	16.51	16.43	16.9	0
20	QPSK	1	49	16.31	16.44	16.40		
20	QPSK	1	99	16.30	16.39	16.31		
20	QPSK	50	0	16.32	16.41	16.25	16.9	0
20	QPSK	50	24	16.21	16.29	16.27		
20	QPSK	50	50	16.19	16.39	16.28		
20	QPSK	100	0	16.28	16.32	16.29	16.9	0
20	16QAM	1	0	16.36	16.33	16.27		
20	16QAM	1	49	16.20	16.27	16.17		
20	16QAM	1	99	16.42	16.41	16.35	16.9	0
20	16QAM	50	0	16.20	16.33	16.29		
20	16QAM	50	24	16.13	16.27	16.14		
20	16QAM	50	50	16.29	16.42	16.31	16.9	0
20	16QAM	100	0	16.27	16.34	16.22		
20	64QAM	1	0	16.21	16.41	16.33		
20	64QAM	1	49	16.23	16.24	16.16	16.9	0
20	64QAM	1	99	16.32	16.35	16.29		
20	64QAM	50	0	16.39	16.40	16.25		
20	64QAM	50	24	16.18	16.32	16.18	16.9	0
20	64QAM	50	50	16.28	16.42	16.31		
20	64QAM	100	0	16.24	16.33	16.25		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	16.22	16.41	16.33		
15	QPSK	1	37	16.26	16.33	16.26	16.9	0
15	QPSK	1	74	16.23	16.33	16.17		
15	QPSK	36	0	16.26	16.37	16.21	16.9	0
15	QPSK	36	20	16.17	16.19	16.23		
15	QPSK	36	39	16.10	16.30	16.19		
15	QPSK	75	0	16.22	16.23	16.20	16.9	0
15	16QAM	1	0	16.24	16.19	16.15		
15	16QAM	1	37	16.14	16.12	16.11		
15	16QAM	1	74	16.34	16.31	16.24	16.9	0
15	16QAM	36	0	16.14	16.18	16.20		
15	16QAM	36	20	16.08	16.21	16.03		
15	16QAM	36	39	16.16	16.36	16.25	16.9	0
15	16QAM	75	0	16.14	16.30	16.18		
15	64QAM	1	0	16.12	16.29	16.27		
15	64QAM	1	37	16.14	16.16	16.07	16.9	0
15	64QAM	1	74	16.18	16.28	16.18		
15	64QAM	36	0	16.34	16.33	16.17		
15	64QAM	36	20	16.10	16.22	16.06	16.9	0
15	64QAM	36	39	16.17	16.36	16.20		
15	64QAM	75	0	16.11	16.24	16.19		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	16.30	16.42	16.34		
10	QPSK	1	25	16.17	16.30	16.28	16.9	0
10	QPSK	1	49	16.25	16.36	16.17		
10	QPSK	25	0	16.25	16.26	16.17		



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10	QPSK	25	12	16.17	16.17	16.18		
10	QPSK	25	25	16.16	16.31	16.20		
10	QPSK	50	0	16.20	16.21	16.21		
10	16QAM	1	0	16.30	16.28	16.13	16.9	0
10	16QAM	1	25	16.09	16.19	16.12		
10	16QAM	1	49	16.29	16.37	16.27		
10	16QAM	25	0	16.07	16.20	16.24	16.9	0
10	16QAM	25	12	16.08	16.15	16.09		
10	16QAM	25	25	16.15	16.31	16.23		
10	16QAM	50	0	16.14	16.24	16.12	16.9	0
10	64QAM	1	0	16.16	16.33	16.23		
10	64QAM	1	25	16.15	16.10	16.05		
10	64QAM	1	49	16.26	16.23	16.23	16.9	0
10	64QAM	25	0	16.34	16.35	16.12		
10	64QAM	25	12	16.13	16.26	16.11		
10	64QAM	25	25	16.23	16.31	16.22	16.9	0
10	64QAM	50	0	16.16	16.28	16.17		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	16.22	16.38	16.36	16.9	0
5	QPSK	1	12	16.22	16.29	16.36		
5	QPSK	1	24	16.23	16.26	16.19		
5	QPSK	12	0	16.25	16.36	16.11	16.9	0
5	QPSK	12	7	16.12	16.24	16.20		
5	QPSK	12	13	16.09	16.29	16.13		
5	QPSK	25	0	16.22	16.21	16.17	16.9	0
5	16QAM	1	0	16.30	16.29	16.22		
5	16QAM	1	12	16.11	16.17	16.09		
5	16QAM	1	24	16.33	16.37	16.21	16.9	0
5	16QAM	12	0	16.12	16.25	16.15		
5	16QAM	12	7	16.02	16.15	16.10		
5	16QAM	12	13	16.18	16.32	16.25	16.9	0
5	16QAM	25	0	16.17	16.29	16.09		
5	64QAM	1	0	16.06	16.36	16.26		
5	64QAM	1	12	16.09	16.11	16.04	16.9	0
5	64QAM	1	24	16.26	16.32	16.25		
5	64QAM	12	0	16.32	16.35	16.19		
5	64QAM	12	7	16.05	16.19	16.04	16.9	0
5	64QAM	12	13	16.18	16.33	16.18		
5	64QAM	25	0	16.11	16.21	16.10		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	16.19	16.45	16.39	16.9	0
3	QPSK	1	8	16.28	16.37	16.27		
3	QPSK	1	14	16.20	16.32	16.19		
3	QPSK	8	0	16.26	16.31	16.15	16.9	0
3	QPSK	8	4	16.12	16.16	16.15		
3	QPSK	8	7	16.11	16.25	16.22		
3	QPSK	15	0	16.25	16.24	16.18	16.9	0
3	16QAM	1	0	16.26	16.27	16.20		
3	16QAM	1	8	16.10	16.24	16.06		
3	16QAM	1	14	16.31	16.38	16.21	16.9	0
3	16QAM	8	0	16.06	16.21	16.19		
3	16QAM	8	4	16.04	16.18	16.10		
3	16QAM	8	7	16.15	16.30	16.24	16.9	0

3	16QAM	15	0	16.17	16.30	16.08		
3	64QAM	1	0	16.17	16.30	16.27	16.9	0
3	64QAM	1	8	16.10	16.13	16.10		
3	64QAM	1	14	16.20	16.29	16.23		
3	64QAM	8	0	16.30	16.30	16.13	16.9	0
3	64QAM	8	4	16.04	16.19	16.09		
3	64QAM	8	7	16.25	16.37	16.16		
3	64QAM	15	0	16.10	16.20	16.21		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	16.24	16.38	16.30	16.9	0
1.4	QPSK	1	3	16.23	16.38	16.30		
1.4	QPSK	1	5	16.21	16.24	16.26		
1.4	QPSK	3	0	16.23	16.35	16.12		
1.4	QPSK	3	1	16.11	16.21	16.17		
1.4	QPSK	3	3	16.07	16.34	16.15		
1.4	QPSK	6	0	16.20	16.26	16.17	16.9	0
1.4	16QAM	1	0	16.28	16.19	16.23	16.9	0
1.4	16QAM	1	3	16.09	16.20	16.03		
1.4	16QAM	1	5	16.39	16.32	16.25		
1.4	16QAM	3	0	16.07	16.25	16.20		
1.4	16QAM	3	1	16.05	16.20	16.03		
1.4	16QAM	3	3	16.19	16.38	16.18		
1.4	16QAM	6	0	16.14	16.30	16.13	16.9	0
1.4	64QAM	1	0	16.10	16.28	16.21	16.9	0
1.4	64QAM	1	3	16.10	16.18	16.07		
1.4	64QAM	1	5	16.26	16.27	16.26		
1.4	64QAM	3	0	16.31	16.26	16.21		
1.4	64QAM	3	1	16.13	16.28	16.06		
1.4	64QAM	3	3	16.19	16.35	16.22		
1.4	64QAM	6	0	16.10	16.21	16.10	16.9	0



LTE Band 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	18.4	0
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	17.65	17.88	17.71	18.4	0
10	QPSK	1	25	17.59	17.66	17.75		
10	QPSK	1	49	17.62	17.62	17.63		
10	QPSK	25	0	17.56	17.73	17.62	18.4	0
10	QPSK	25	12	17.55	17.60	17.63		
10	QPSK	25	25	17.56	17.61	17.58		
10	QPSK	50	0	17.55	17.67	17.53	18.4	0
10	16QAM	1	0	17.58	17.61	17.53		
10	16QAM	1	25	17.51	17.58	17.47		
10	16QAM	1	49	17.64	17.77	17.60	18.4	0
10	16QAM	25	0	17.52	17.57	17.61		
10	16QAM	25	12	17.42	17.62	17.46		
10	16QAM	25	25	17.58	17.78	17.66	18.4	0
10	16QAM	50	0	17.61	17.56	17.57		
10	64QAM	1	0	17.48	17.64	17.65		
10	64QAM	1	25	17.59	17.54	17.51	18.4	0
10	64QAM	1	49	17.61	17.69	17.57		
10	64QAM	25	0	17.66	17.75	17.55		
10	64QAM	25	12	17.44	17.61	17.42	18.4	0
10	64QAM	25	25	17.55	17.76	17.65		
10	64QAM	50	0	17.51	17.56	17.58		
Channel				20425	20525	20625	18.4	0
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	17.51	17.74	17.65	18.4	0
5	QPSK	1	12	17.42	17.54	17.58		
5	QPSK	1	24	17.60	17.57	17.55		
5	QPSK	12	0	17.39	17.67	17.56	18.4	0
5	QPSK	12	7	17.50	17.45	17.60		
5	QPSK	12	13	17.49	17.54	17.45		
5	QPSK	25	0	17.51	17.64	17.47	18.4	0
5	16QAM	1	0	17.46	17.54	17.47		
5	16QAM	1	12	17.47	17.56	17.42		
5	16QAM	1	24	17.51	17.62	17.53	18.4	0
5	16QAM	12	0	17.38	17.42	17.47		
5	16QAM	12	7	17.37	17.54	17.30		
5	16QAM	12	13	17.56	17.71	17.61	18.4	0
5	16QAM	25	0	17.55	17.50	17.54		
5	64QAM	1	0	17.42	17.55	17.49		
5	64QAM	1	12	17.55	17.39	17.37	18.4	0
5	64QAM	1	24	17.57	17.59	17.46		
5	64QAM	12	0	17.62	17.64	17.50		
5	64QAM	12	7	17.32	17.49	17.37	18.4	0
5	64QAM	12	13	17.43	17.60	17.63		
5	64QAM	25	0	17.49	17.40	17.45		
Channel				20415	20525	20635	18.4	0
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	17.47	17.78	17.63	18.4	0
3	QPSK	1	8	17.53	17.55	17.65		
3	QPSK	1	14	17.60	17.59	17.61		
3	QPSK	8	0	17.41	17.64	17.48	18.4	0

3	QPSK	8	4	17.45	17.50	17.53		
3	QPSK	8	7	17.43	17.53	17.45		
3	QPSK	15	0	17.47	17.63	17.46		
3	16QAM	1	0	17.51	17.56	17.43	18.4	0
3	16QAM	1	8	17.35	17.46	17.44		
3	16QAM	1	14	17.50	17.60	17.47		
3	16QAM	8	0	17.47	17.45	17.54	18.4	0
3	16QAM	8	4	17.38	17.44	17.35		
3	16QAM	8	7	17.46	17.72	17.59		
3	16QAM	15	0	17.46	17.49	17.48	18.4	0
3	64QAM	1	0	17.32	17.50	17.53		
3	64QAM	1	8	17.53	17.47	17.42		
3	64QAM	1	14	17.53	17.53	17.44	18.4	0
3	64QAM	8	0	17.56	17.73	17.37		
3	64QAM	8	4	17.36	17.58	17.37		
3	64QAM	8	7	17.48	17.71	17.59	18.4	0
3	64QAM	15	0	17.36	17.47	17.48		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	17.52	17.86	17.56	18.4	0
1.4	QPSK	1	3	17.46	17.63	17.67		
1.4	QPSK	1	5	17.58	17.59	17.60		
1.4	QPSK	3	0	17.49	17.56	17.45	18.4	0
1.4	QPSK	3	1	17.40	17.57	17.53		
1.4	QPSK	3	3	17.52	17.53	17.52		
1.4	QPSK	6	0	17.42	17.50	17.37	18.4	0
1.4	16QAM	1	0	17.56	17.57	17.44	18.4	0
1.4	16QAM	1	3	17.34	17.43	17.42		
1.4	16QAM	1	5	17.56	17.73	17.49		
1.4	16QAM	3	0	17.42	17.44	17.56	18.4	0
1.4	16QAM	3	1	17.29	17.55	17.28		
1.4	16QAM	3	3	17.40	17.72	17.52		
1.4	16QAM	6	0	17.55	17.40	17.41	18.4	0
1.4	64QAM	1	0	17.36	17.54	17.55	18.4	0
1.4	64QAM	1	3	17.52	17.46	17.38		
1.4	64QAM	1	5	17.47	17.65	17.47		
1.4	64QAM	3	0	17.53	17.62	17.47	18.4	0
1.4	64QAM	3	1	17.37	17.46	17.33		
1.4	64QAM	3	3	17.52	17.70	17.62		
1.4	64QAM	6	0	17.45	17.41	17.52	18.4	0



LTE Band 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	11.31	11.39	11.22	12.6	0
20	QPSK	1	49	11.33	11.34	11.23		
20	QPSK	1	99	11.29	11.38	11.17		
20	QPSK	50	0	11.32	11.39	11.21	12.6	0
20	QPSK	50	24	11.34	11.34	11.21		
20	QPSK	50	50	11.35	11.31	11.19		
20	QPSK	100	0	11.22	11.30	11.18	12.6	0
20	16QAM	1	0	11.32	11.37	11.17		
20	16QAM	1	49	11.33	11.29	11.27		
20	16QAM	1	99	11.28	11.39	11.27	12.6	0
20	16QAM	50	0	11.32	11.34	11.20		
20	16QAM	50	24	11.29	11.45	11.23		
20	16QAM	50	50	11.29	11.34	11.24	12.6	0
20	16QAM	100	0	11.33	11.43	11.26		
20	64QAM	1	0	11.33	11.39	11.18		
20	64QAM	1	49	11.33	11.42	11.20	12.6	0
20	64QAM	1	99	11.27	11.37	11.20		
20	64QAM	50	0	11.31	11.42	11.20		
20	64QAM	50	24	11.32	11.31	11.25	12.6	0
20	64QAM	50	50	11.27	11.40	11.22		
20	64QAM	100	0	11.32	11.32	11.22		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	11.35	11.43	11.18		
15	QPSK	1	37	11.32	11.35	11.18	12.6	0
15	QPSK	1	74	11.26	11.39	11.21		
15	QPSK	36	0	11.36	11.38	11.22	12.6	0
15	QPSK	36	20	11.31	11.33	11.16		
15	QPSK	36	39	11.30	11.32	11.22		
15	QPSK	75	0	11.19	11.30	11.13	12.6	0
15	16QAM	1	0	11.34	11.38	11.15		
15	16QAM	1	37	11.34	11.25	11.23		
15	16QAM	1	74	11.33	11.40	11.22	12.6	0
15	16QAM	36	0	11.32	11.31	11.24		
15	16QAM	36	20	11.28	11.45	11.28		
15	16QAM	36	39	11.31	11.38	11.22	12.6	0
15	16QAM	75	0	11.37	11.46	11.30		
15	64QAM	1	0	11.38	11.37	11.20		
15	64QAM	1	37	11.28	11.44	11.23	12.6	0
15	64QAM	1	74	11.24	11.41	11.17		
15	64QAM	36	0	11.30	11.38	11.18		
15	64QAM	36	20	11.31	11.28	11.20	12.6	0
15	64QAM	36	39	11.32	11.36	11.26		
15	64QAM	75	0	11.35	11.28	11.25		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	11.31	11.42	11.27		
10	QPSK	1	25	11.33	11.35	11.21	12.6	0
10	QPSK	1	49	11.25	11.33	11.17		
10	QPSK	25	0	11.30	11.43	11.17		



10	QPSK	25	12	11.33	11.35	11.18		
10	QPSK	25	25	11.33	11.35	11.24		
10	QPSK	50	0	11.26	11.29	11.15		
10	16QAM	1	0	11.27	11.37	11.12	12.6	0
10	16QAM	1	25	11.38	11.25	11.31		
10	16QAM	1	49	11.24	11.36	11.24		
10	16QAM	25	0	11.32	11.36	11.20	12.6	0
10	16QAM	25	12	11.28	11.49	11.21		
10	16QAM	25	25	11.31	11.39	11.23		
10	16QAM	50	0	11.38	11.43	11.27	12.6	0
10	64QAM	1	0	11.35	11.39	11.17		
10	64QAM	1	25	11.29	11.46	11.19		
10	64QAM	1	49	11.25	11.33	11.16	12.6	0
10	64QAM	25	0	11.34	11.42	11.15		
10	64QAM	25	12	11.34	11.34	11.26		
10	64QAM	25	25	11.29	11.44	11.24	12.6	0
10	64QAM	50	0	11.34	11.35	11.25		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	11.27	11.38	11.22	12.6	0
5	QPSK	1	12	11.33	11.31	11.22		
5	QPSK	1	24	11.29	11.41	11.12		
5	QPSK	12	0	11.28	11.39	11.18	12.6	0
5	QPSK	12	7	11.38	11.36	11.23		
5	QPSK	12	13	11.37	11.34	11.19		
5	QPSK	25	0	11.19	11.34	11.21	12.6	0
5	16QAM	1	0	11.29	11.35	11.19		
5	16QAM	1	12	11.31	11.29	11.28		
5	16QAM	1	24	11.28	11.36	11.23	12.6	0
5	16QAM	12	0	11.36	11.34	11.24		
5	16QAM	12	7	11.33	11.47	11.22		
5	16QAM	12	13	11.25	11.32	11.24	12.6	0
5	16QAM	25	0	11.29	11.43	11.21		
5	64QAM	1	0	11.36	11.35	11.13		
5	64QAM	1	12	11.29	11.45	11.19	12.6	0
5	64QAM	1	24	11.23	11.39	11.21		
5	64QAM	12	0	11.28	11.43	11.19		
5	64QAM	12	7	11.33	11.34	11.30	12.6	0
5	64QAM	12	13	11.30	11.37	11.20		
5	64QAM	25	0	11.31	11.34	11.20		



LTE Band 12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	21.29	21.34	21.23	22.3	0
10	QPSK	1	25	21.07	21.19	21.12		
10	QPSK	1	49	21.19	21.30	21.26		
10	QPSK	25	0	21.25	21.28	21.14	22.3	0
10	QPSK	25	12	21.10	21.20	21.15		
10	QPSK	25	25	21.11	21.22	21.19		
10	QPSK	50	0	21.11	21.24	21.10	22.3	0
10	16QAM	1	0	21.24	21.28	21.17		
10	16QAM	1	25	21.13	21.21	21.09		
10	16QAM	1	49	21.14	21.27	21.20	22.3	0
10	16QAM	25	0	21.17	21.31	21.22		
10	16QAM	25	12	21.16	21.21	21.14		
10	16QAM	25	25	21.27	21.32	21.21	22.3	0
10	16QAM	50	0	21.19	21.22	21.17		
10	64QAM	1	0	21.11	21.24	21.19		
10	64QAM	1	25	21.11	21.19	21.13	22.3	0
10	64QAM	1	49	21.19	21.24	21.16		
10	64QAM	25	0	20.72	20.80	20.75		
10	64QAM	25	12	20.86	20.66	20.60	22	0.3
10	64QAM	25	25	20.84	20.74	20.69		
10	64QAM	50	0	20.80	20.71	20.86		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	21.16	21.25	21.09	22.3	0
5	QPSK	1	12	20.95	21.13	20.99		
5	QPSK	1	24	21.14	21.20	21.18		
5	QPSK	12	0	21.20	21.19	21.05	22.3	0
5	QPSK	12	7	20.98	21.08	21.05		
5	QPSK	12	13	21.05	21.15	21.10		
5	QPSK	25	0	20.99	21.16	20.96	22.3	0
5	16QAM	1	0	21.14	21.23	21.13		
5	16QAM	1	12	21.03	21.11	20.98		
5	16QAM	1	24	21.10	21.17	21.10	22.3	0
5	16QAM	12	0	21.13	21.21	21.11		
5	16QAM	12	7	21.08	21.10	21.00		
5	16QAM	12	13	21.18	21.21	21.09	22.3	0
5	16QAM	25	0	21.14	21.16	21.03		
5	64QAM	1	0	21.06	21.19	21.12		
5	64QAM	1	12	20.97	21.05	21.02	22.3	0
5	64QAM	1	24	21.04	21.13	21.07		
5	64QAM	12	0	20.61	20.66	20.67		
5	64QAM	12	7	20.81	20.59	20.48	22	0.3
5	64QAM	12	13	20.76	20.70	20.56		
5	64QAM	25	0	20.71	20.68	20.71		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	21.19	21.30	21.17	22.3	0
3	QPSK	1	8	21.01	21.15	20.99		
3	QPSK	1	14	21.11	21.20	21.15		
3	QPSK	8	0	21.11	21.19	20.99	22.3	0

3	QPSK	8	4	21.07	21.13	21.04		
3	QPSK	8	7	21.05	21.08	21.11		
3	QPSK	15	0	21.05	21.16	20.98		
3	16QAM	1	0	21.15	21.15	21.04	22.3	0
3	16QAM	1	8	21.09	21.18	21.06		
3	16QAM	1	14	21.09	21.14	21.06		
3	16QAM	8	0	21.08	21.19	21.18	22.3	0
3	16QAM	8	4	21.12	21.08	21.00		
3	16QAM	8	7	21.14	21.17	21.07		
3	16QAM	15	0	21.10	21.12	21.13	22.3	0
3	64QAM	1	0	20.98	21.19	21.09		
3	64QAM	1	8	21.08	21.12	21.01		
3	64QAM	1	14	21.11	21.19	21.04	22	0.3
3	64QAM	8	0	20.58	20.75	20.72		
3	64QAM	8	4	20.83	20.52	20.53		
3	64QAM	8	7	20.72	20.63	20.65	22	0.3
3	64QAM	15	0	20.76	20.61	20.77		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	21.15	21.25	21.15	22.3	0
1.4	QPSK	1	3	20.94	21.07	21.07		
1.4	QPSK	1	5	21.14	21.25	21.17		
1.4	QPSK	3	0	21.18	21.22	21.10		
1.4	QPSK	3	1	21.07	21.09	21.10		
1.4	QPSK	3	3	20.98	21.17	21.08		
1.4	QPSK	6	0	20.96	21.16	21.06	22.3	0
1.4	16QAM	1	0	21.16	21.13	21.06	22.3	0
1.4	16QAM	1	3	21.10	21.08	21.00		
1.4	16QAM	1	5	21.08	21.16	21.06		
1.4	16QAM	3	0	21.04	21.19	21.08		
1.4	16QAM	3	1	21.10	21.14	21.09		
1.4	16QAM	3	3	21.12	21.21	21.16		
1.4	16QAM	6	0	21.14	21.09	21.13	22.3	0
1.4	64QAM	1	0	21.02	21.11	21.15	22.3	0
1.4	64QAM	1	3	21.03	21.06	21.02		
1.4	64QAM	1	5	21.06	21.13	21.07		
1.4	64QAM	3	0	21.14	21.20	21.11		
1.4	64QAM	3	1	21.29	21.12	21.04		
1.4	64QAM	3	3	21.29	21.15	21.09		
1.4	64QAM	6	0	20.71	20.66	20.76	22	0.3

LTE Band 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0	18.54			20.2	0
10	QPSK	1	25	18.47				
10	QPSK	1	49	18.45				
10	QPSK	25	0	18.52			20.2	0
10	QPSK	25	12	18.39				
10	QPSK	25	25	18.44				
10	QPSK	50	0	18.48			20.2	0
10	16QAM	1	0	18.41				
10	16QAM	1	25	18.50				
10	16QAM	1	49	18.38			20.2	0
10	16QAM	25	0	18.37				
10	16QAM	25	12	18.48				
10	16QAM	25	25	18.42			20.2	0
10	16QAM	50	0	18.40				
10	64QAM	1	0	18.38				
10	64QAM	1	25	18.42			20.2	0
10	64QAM	1	49	18.52				
10	64QAM	25	0	18.37				
10	64QAM	25	12	18.46			20.2	0
10	64QAM	25	25	18.32				
10	64QAM	50	0	18.49				
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	18.35	18.51	18.34	20.2	0
5	QPSK	1	12	18.32	18.37	18.28		
5	QPSK	1	24	18.30	18.47	18.31		
5	QPSK	12	0	18.36	18.43	18.32	20.2	0
5	QPSK	12	7	18.40	18.41	18.36		
5	QPSK	12	13	18.34	18.30	18.31		
5	QPSK	25	0	18.26	18.44	18.25	20.2	0
5	16QAM	1	0	18.41	18.38	18.27		
5	16QAM	1	12	18.42	18.38	18.35		
5	16QAM	1	24	18.33	18.27	18.28	20.2	0
5	16QAM	12	0	18.21	18.41	18.24		
5	16QAM	12	7	18.44	18.40	18.25		
5	16QAM	12	13	18.40	18.39	18.31	20.2	0
5	16QAM	25	0	18.33	18.30	18.27		
5	64QAM	1	0	18.20	18.44	18.25		
5	64QAM	1	12	18.44	18.36	18.22	20.2	0
5	64QAM	1	24	18.49	18.39	18.29		
5	64QAM	12	0	18.45	18.40	18.31		
5	64QAM	12	7	18.29	18.29	18.32	20.2	0
5	64QAM	12	13	18.33	18.41	18.22		
5	64QAM	25	0	18.39	18.37	18.29		



LTE Band 14								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0	18.27			19.4	0
10	QPSK	1	25	18.19				
10	QPSK	1	49	18.22				
10	QPSK	25	0	18.24			19.4	0
10	QPSK	25	12	18.13				
10	QPSK	25	25	18.22				
10	QPSK	50	0	18.21			19.4	0
10	16QAM	1	0	18.11				
10	16QAM	1	25	18.06				
10	16QAM	1	49	18.12			19.4	0
10	16QAM	25	0	18.16				
10	16QAM	25	12	18.20				
10	16QAM	25	25	18.13			19.4	0
10	16QAM	50	0	18.20				
10	64QAM	1	0	18.15				
10	64QAM	1	25	18.03			19.4	0
10	64QAM	1	49	18.14				
10	64QAM	25	0	18.20				
10	64QAM	25	12	18.15			19.4	0
10	64QAM	25	25	18.07				
10	64QAM	50	0	18.16				
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	18.05	18.18	17.97	19.4	0
5	QPSK	1	12	18.08	18.15	17.98		
5	QPSK	1	24	18.06	18.19	17.97		
5	QPSK	12	0	18.08	18.20	18.03	19.4	0
5	QPSK	12	7	17.94	17.98	17.88		
5	QPSK	12	13	18.02	18.08	18.00		
5	QPSK	25	0	17.97	18.16	18.11	19.4	0
5	16QAM	1	0	17.85	17.99	17.94		
5	16QAM	1	12	17.96	17.93	17.87		
5	16QAM	1	24	17.90	18.06	17.93	19.4	0
5	16QAM	12	0	18.02	18.11	17.99		
5	16QAM	12	7	17.93	18.13	18.04		
5	16QAM	12	13	17.91	18.06	17.85	19.4	0
5	16QAM	25	0	17.93	18.15	18.13		
5	64QAM	1	0	18.00	18.04	17.97		
5	64QAM	1	12	17.80	17.98	17.82	19.4	0
5	64QAM	1	24	18.12	18.07	17.96		
5	64QAM	12	0	18.06	18.14	18.08		
5	64QAM	12	7	18.04	18.00	17.97	19.4	0
5	64QAM	12	13	17.88	17.99	17.81		
5	64QAM	25	0	18.08	18.09	17.95		



LTE Band 17								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	21.21	21.27	21.11	22.3	0
10	QPSK	1	25	21.10	21.13	21.15		
10	QPSK	1	49	21.09	21.22	21.07		
10	QPSK	25	0	21.10	21.18	21.13	22.3	0
10	QPSK	25	12	21.01	21.17	21.09		
10	QPSK	25	25	21.08	21.14	21.12		
10	QPSK	50	0	21.14	21.20	21.05	22.3	0
10	16QAM	1	0	21.08	21.18	21.03		
10	16QAM	1	25	21.10	21.24	21.17		
10	16QAM	1	49	21.00	21.09	21.11	22.3	0
10	16QAM	25	0	21.10	21.22	21.16		
10	16QAM	25	12	21.09	21.15	21.06		
10	16QAM	25	25	20.99	21.13	20.98	22.3	0
10	16QAM	50	0	21.14	21.27	21.13		
10	64QAM	1	0	21.03	21.09	20.98		
10	64QAM	1	25	21.08	21.10	21.01	22.3	0
10	64QAM	1	49	20.98	21.09	20.99		
10	64QAM	25	0	20.70	20.75	20.77		
10	64QAM	25	12	20.76	20.70	20.69	21.8	0.5
10	64QAM	25	25	20.69	20.72	20.68		
10	64QAM	50	0	20.82	20.63	20.62		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	21.13	21.20	21.05		
5	QPSK	1	12	20.98	21.02	21.03	22.3	0
5	QPSK	1	24	20.95	21.15	21.03		
5	QPSK	12	0	20.95	21.08	21.01	22.3	0
5	QPSK	12	7	20.97	21.05	21.02		
5	QPSK	12	13	21.00	21.06	20.98		
5	QPSK	25	0	21.09	21.05	21.02	22.3	0
5	16QAM	1	0	21.01	21.14	20.94		
5	16QAM	1	12	21.00	21.15	21.03		
5	16QAM	1	24	20.85	21.01	21.05	22.3	0
5	16QAM	12	0	21.03	21.16	21.06		
5	16QAM	12	7	20.96	21.12	21.00		
5	16QAM	12	13	20.93	21.10	20.89	22.3	0
5	16QAM	25	0	21.09	21.23	21.06		
5	64QAM	1	0	20.97	20.95	20.85		
5	64QAM	1	12	20.94	20.97	20.96	22.3	0
5	64QAM	1	24	20.92	20.97	20.93		
5	64QAM	12	0	20.60	20.60	20.63		
5	64QAM	12	7	20.72	20.61	20.60	21.8	0.5
5	64QAM	12	13	20.55	20.65	20.58		
5	64QAM	25	0	20.68	20.53	20.51		



LTE Band 25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	14.28	14.36	14.23	14.7	0
20	QPSK	1	49	14.32	14.33	14.20		
20	QPSK	1	99	14.29	14.33	14.25		
20	QPSK	50	0	14.28	14.35	14.26	14.7	0
20	QPSK	50	24	14.31	14.32	14.29		
20	QPSK	50	50	14.31	14.33	14.28		
20	QPSK	100	0	14.21	14.25	14.18	14.7	0
20	16QAM	1	0	14.23	14.41	14.31		
20	16QAM	1	49	14.30	14.31	14.19		
20	16QAM	1	99	14.24	14.37	14.24	14.7	0
20	16QAM	50	0	14.29	14.35	14.23		
20	16QAM	50	24	14.28	14.30	14.24		
20	16QAM	50	50	14.34	14.24	14.25	14.7	0
20	16QAM	100	0	14.33	14.41	14.19		
20	64QAM	1	0	14.24	14.26	14.19		
20	64QAM	1	49	14.27	14.35	14.29	14.7	0
20	64QAM	1	99	14.29	14.31	14.20		
20	64QAM	50	0	14.27	14.33	14.23		
20	64QAM	50	24	14.24	14.29	14.25	14.7	0
20	64QAM	50	50	14.27	14.30	14.30		
20	64QAM	100	0	14.35	14.29	14.24		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	14.24	14.33	14.18		
15	QPSK	1	37	14.32	14.35	14.20	14.7	0
15	QPSK	1	74	14.31	14.31	14.22		
15	QPSK	36	0	14.26	14.39	14.26	14.7	0
15	QPSK	36	20	14.35	14.37	14.28		
15	QPSK	36	39	14.28	14.34	14.29		
15	QPSK	75	0	14.23	14.27	14.21	14.7	0
15	16QAM	1	0	14.25	14.40	14.34		
15	16QAM	1	37	14.25	14.26	14.22		
15	16QAM	1	74	14.24	14.34	14.25	14.7	0
15	16QAM	36	0	14.31	14.40	14.22		
15	16QAM	36	20	14.30	14.27	14.21		
15	16QAM	36	39	14.32	14.22	14.28	14.7	0
15	16QAM	75	0	14.37	14.40	14.16		
15	64QAM	1	0	14.20	14.24	14.22		
15	64QAM	1	37	14.31	14.34	14.28	14.7	0
15	64QAM	1	74	14.34	14.34	14.18		
15	64QAM	36	0	14.31	14.29	14.26		
15	64QAM	36	20	14.21	14.32	14.20	14.7	0
15	64QAM	36	39	14.26	14.34	14.30		
15	64QAM	75	0	14.38	14.29	14.22		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	14.28	14.36	14.23		
10	QPSK	1	25	14.28	14.28	14.18	14.7	0
10	QPSK	1	49	14.25	14.38	14.22		
10	QPSK	25	0	14.32	14.34	14.28		



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10	QPSK	25	12	14.35	14.36	14.33		
10	QPSK	25	25	14.33	14.32	14.31		
10	QPSK	50	0	14.21	14.28	14.18		
10	16QAM	1	0	14.19	14.41	14.29	14.7	0
10	16QAM	1	25	14.26	14.32	14.23		
10	16QAM	1	49	14.20	14.39	14.23		
10	16QAM	25	0	14.29	14.37	14.18	14.7	0
10	16QAM	25	12	14.33	14.28	14.27		
10	16QAM	25	25	14.31	14.26	14.21		
10	16QAM	50	0	14.33	14.43	14.16	14.7	0
10	64QAM	1	0	14.22	14.25	14.24		
10	64QAM	1	25	14.31	14.32	14.28		
10	64QAM	1	49	14.27	14.35	14.20	14.7	0
10	64QAM	25	0	14.26	14.34	14.19		
10	64QAM	25	12	14.28	14.31	14.23		
10	64QAM	25	25	14.25	14.29	14.26	14.7	0
10	64QAM	50	0	14.33	14.34	14.26		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	14.26	14.40	14.21	14.7	0
5	QPSK	1	12	14.37	14.32	14.23		
5	QPSK	1	24	14.31	14.36	14.22		
5	QPSK	12	0	14.28	14.33	14.29	14.7	0
5	QPSK	12	7	14.34	14.33	14.25		
5	QPSK	12	13	14.29	14.28	14.25		
5	QPSK	25	0	14.25	14.21	14.20	14.7	0
5	16QAM	1	0	14.20	14.39	14.33		
5	16QAM	1	12	14.31	14.28	14.18		
5	16QAM	1	24	14.22	14.41	14.23	14.7	0
5	16QAM	12	0	14.25	14.34	14.21		
5	16QAM	12	7	14.25	14.30	14.28		
5	16QAM	12	13	14.33	14.27	14.27	14.7	0
5	16QAM	25	0	14.30	14.36	14.17		
5	64QAM	1	0	14.19	14.28	14.21		
5	64QAM	1	12	14.29	14.32	14.27	14.7	0
5	64QAM	1	24	14.28	14.36	14.21		
5	64QAM	12	0	14.29	14.38	14.24		
5	64QAM	12	7	14.23	14.29	14.23	14.7	0
5	64QAM	12	13	14.28	14.33	14.34		
5	64QAM	25	0	14.39	14.31	14.25		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	14.29	14.34	14.18	14.7	0
3	QPSK	1	8	14.34	14.32	14.18		
3	QPSK	1	14	14.30	14.29	14.29		
3	QPSK	8	0	14.23	14.40	14.24	14.7	0
3	QPSK	8	4	14.34	14.28	14.34		
3	QPSK	8	7	14.31	14.38	14.29		
3	QPSK	15	0	14.18	14.25	14.22	14.7	0
3	16QAM	1	0	14.19	14.41	14.33		
3	16QAM	1	8	14.26	14.33	14.24		
3	16QAM	1	14	14.23	14.38	14.26	14.7	0
3	16QAM	8	0	14.27	14.36	14.22		
3	16QAM	8	4	14.32	14.26	14.20		
3	16QAM	8	7	14.29	14.22	14.20		



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3	16QAM	15	0	14.31	14.43	14.15		
3	64QAM	1	0	14.24	14.23	14.15	14.7	0
3	64QAM	1	8	14.30	14.33	14.32		
3	64QAM	1	14	14.28	14.32	14.20		
3	64QAM	8	0	14.27	14.33	14.27	14.7	0
3	64QAM	8	4	14.29	14.29	14.27		
3	64QAM	8	7	14.23	14.32	14.30		
3	64QAM	15	0	14.34	14.29	14.22		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	14.23	14.34	14.25	14.7	0
1.4	QPSK	1	3	14.29	14.36	14.18		
1.4	QPSK	1	5	14.26	14.35	14.23		
1.4	QPSK	3	0	14.30	14.37	14.30		
1.4	QPSK	3	1	14.27	14.32	14.26		
1.4	QPSK	3	3	14.34	14.31	14.24		
1.4	QPSK	6	0	14.25	14.22	14.21	14.7	0
1.4	16QAM	1	0	14.20	14.44	14.35	14.7	0
1.4	16QAM	1	3	14.34	14.34	14.16		
1.4	16QAM	1	5	14.20	14.41	14.20		
1.4	16QAM	3	0	14.31	14.33	14.21		
1.4	16QAM	3	1	14.30	14.28	14.22		
1.4	16QAM	3	3	14.39	14.24	14.23		
1.4	16QAM	6	0	14.37	14.42	14.22	14.7	0
1.4	64QAM	1	0	14.29	14.27	14.19	14.7	0
1.4	64QAM	1	3	14.26	14.32	14.30		
1.4	64QAM	1	5	14.30	14.34	14.17		
1.4	64QAM	3	0	14.30	14.37	14.19		
1.4	64QAM	3	1	14.25	14.28	14.21		
1.4	64QAM	3	3	14.26	14.26	14.26		
1.4	64QAM	6	0	14.36	14.28	14.24	14.7	0



LTE Band 26								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965	18.6	0
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	17.26	17.33	17.20		
15	QPSK	1	37	17.19	17.23	17.10	18.6	0
15	QPSK	1	74	17.07	17.18	17.09		
15	QPSK	36	0	17.18	17.25	17.18		
15	QPSK	36	20	17.01	17.12	17.06	18.6	0
15	QPSK	36	39	17.14	17.19	17.09		
15	QPSK	75	0	17.19	17.22	17.12		
15	16QAM	1	0	17.07	17.16	17.06	18.6	0
15	16QAM	1	37	17.04	17.11	17.04		
15	16QAM	1	74	17.16	17.23	17.13		
15	16QAM	36	0	17.09	17.17	17.03	18.6	0
15	16QAM	36	20	17.00	17.09	16.95		
15	16QAM	36	39	17.11	17.21	17.12		
15	16QAM	75	0	17.10	17.24	17.10	18.6	0
15	64QAM	1	0	17.08	17.22	17.17		
15	64QAM	1	37	17.03	17.15	17.04		
15	64QAM	1	74	17.20	17.25	17.22	18.6	0
15	64QAM	36	0	17.09	17.23	17.08		
15	64QAM	36	20	17.25	17.29	17.24		
15	64QAM	36	39	17.06	17.16	17.02	18.6	0
15	64QAM	75	0	17.15	17.24	17.14		
Channel				26740	26865	26990	18.6	0
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	17.14	17.26	17.07		
10	QPSK	1	25	17.12	17.15	16.96	18.6	0
10	QPSK	1	49	17.03	17.09	16.99		
10	QPSK	25	0	17.11	17.21	17.12		
10	QPSK	25	12	16.88	17.05	16.91	18.6	0
10	QPSK	25	25	17.10	17.04	16.95		
10	QPSK	50	0	17.15	17.16	17.03		
10	16QAM	1	0	16.95	17.05	16.95	18.6	0
10	16QAM	1	25	17.00	16.97	16.89		
10	16QAM	1	49	17.12	17.18	16.99		
10	16QAM	25	0	17.04	17.06	16.93	18.6	0
10	16QAM	25	12	16.96	17.00	16.92		
10	16QAM	25	25	17.00	17.14	16.97		
10	16QAM	50	0	16.98	17.13	16.99	18.6	0
10	64QAM	1	0	16.93	17.17	17.03		
10	64QAM	1	25	17.00	17.08	16.90		
10	64QAM	1	49	17.10	17.17	17.14	18.6	0
10	64QAM	25	0	16.97	17.12	16.93		
10	64QAM	25	12	17.14	17.17	17.16		
10	64QAM	25	25	16.98	17.02	16.94	18.6	0
10	64QAM	50	0	17.09	17.16	17.01		
Channel				26715	26865	27015	18.6	0
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	17.19	17.27	17.05		
5	QPSK	1	12	17.09	17.18	17.04	18.6	0
5	QPSK	1	24	17.03	17.07	16.98		
5	QPSK	12	0	17.12	17.19	17.10		



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5	QPSK	12	7	16.98	17.06	17.00		
5	QPSK	12	13	17.10	17.16	16.97		
5	QPSK	25	0	17.08	17.10	16.98		
5	16QAM	1	0	17.04	17.03	17.00	18.6	0
5	16QAM	1	12	16.93	17.06	17.00		
5	16QAM	1	24	17.08	17.09	17.02		
5	16QAM	12	0	16.94	17.12	16.88	18.6	0
5	16QAM	12	7	16.86	17.05	16.81		
5	16QAM	12	13	16.98	17.09	17.04		
5	16QAM	25	0	16.97	17.13	17.05	18.6	0
5	64QAM	1	0	16.98	17.14	17.10		
5	64QAM	1	12	16.92	17.08	16.92		
5	64QAM	1	24	17.14	17.17	17.11	18.6	0
5	64QAM	12	0	16.98	17.11	16.95		
5	64QAM	12	7	17.12	17.22	17.13		
5	64QAM	12	13	16.92	17.10	16.98	18.6	0
5	64QAM	25	0	17.04	17.19	17.05		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	17.14	17.26	17.16	18.6	0
3	QPSK	1	8	17.16	17.09	16.96		
3	QPSK	1	14	17.03	17.08	17.01		
3	QPSK	8	0	17.11	17.21	17.04	18.6	0
3	QPSK	8	4	16.92	17.03	17.00		
3	QPSK	8	7	17.08	17.14	17.05		
3	QPSK	15	0	17.11	17.17	16.98	18.6	0
3	16QAM	1	0	17.00	17.02	16.92		
3	16QAM	1	8	16.94	16.97	16.93		
3	16QAM	1	14	17.05	17.11	17.01	18.6	0
3	16QAM	8	0	17.01	17.11	16.98		
3	16QAM	8	4	16.96	17.04	16.83		
3	16QAM	8	7	17.04	17.16	17.00	18.6	0
3	16QAM	15	0	17.00	17.18	17.01		
3	64QAM	1	0	16.98	17.08	17.13		
3	64QAM	1	8	16.99	17.09	17.00	18.6	0
3	64QAM	1	14	17.09	17.19	17.11		
3	64QAM	8	0	17.00	17.18	17.02		
3	64QAM	8	4	17.17	17.17	17.18	18.6	0
3	64QAM	8	7	16.92	17.08	16.97		
3	64QAM	15	0	17.05	17.18	17.06		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	17.17	17.20	17.14	18.6	0
1.4	QPSK	1	3	17.14	17.19	17.01		
1.4	QPSK	1	5	17.02	17.04	17.04		
1.4	QPSK	3	0	17.12	17.21	17.14	18.6	0
1.4	QPSK	3	1	16.88	16.97	16.93		
1.4	QPSK	3	3	17.03	17.09	17.00		
1.4	QPSK	6	0	17.11	17.08	17.07	18.6	0
1.4	16QAM	1	0	16.94	17.12	16.97	18.6	0
1.4	16QAM	1	3	16.97	17.01	16.98		
1.4	16QAM	1	5	17.02	17.16	17.06		
1.4	16QAM	3	0	16.94	17.03	16.99	18.6	0
1.4	16QAM	3	1	16.88	16.99	16.92		
1.4	16QAM	3	3	16.99	17.17	16.99		



1.4	16QAM	6	0	17.01	17.13	16.97	18.6	0
1.4	64QAM	1	0	16.93	17.11	17.07	18.6	0
1.4	64QAM	1	3	16.96	17.02	16.96		
1.4	64QAM	1	5	17.17	17.14	17.19		
1.4	64QAM	3	0	16.97	17.13	17.01		
1.4	64QAM	3	1	17.17	17.17	17.20		
1.4	64QAM	3	3	17.01	17.07	16.96		
1.4	64QAM	6	0	17.09	17.18	17.05	18.6	0

LTE Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	16.9	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.44	16.56	16.51		
20	QPSK	1	49	16.37	16.52	16.45	16.9	0
20	QPSK	1	99	16.41	16.45	16.36		
20	QPSK	50	0	16.42	16.50	16.37		
20	QPSK	50	24	16.26	16.39	16.34		
20	QPSK	50	50	16.32	16.44	16.34	16.9	0
20	QPSK	100	0	16.34	16.45	16.37		
20	16QAM	1	0	16.44	16.47	16.32		
20	16QAM	1	49	16.28	16.41	16.31		
20	16QAM	1	99	16.46	16.52	16.42	16.9	0
20	16QAM	50	0	16.35	16.43	16.36		
20	16QAM	50	24	16.26	16.35	16.26		
20	16QAM	50	50	16.39	16.48	16.39		
20	16QAM	100	0	16.31	16.41	16.30	16.9	0
20	64QAM	1	0	16.34	16.47	16.38		
20	64QAM	1	49	16.28	16.38	16.25		
20	64QAM	1	99	16.38	16.45	16.40		
20	64QAM	50	0	16.43	16.46	16.39	16.9	0
20	64QAM	50	24	16.23	16.35	16.24		
20	64QAM	50	50	16.38	16.48	16.44		
20	64QAM	100	0	16.36	16.43	16.32		
Channel				132047	132322	132597	16.9	0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.33	16.51	16.37		
15	QPSK	1	37	16.24	16.40	16.33	16.9	0
15	QPSK	1	74	16.29	16.37	16.31		
15	QPSK	36	0	16.30	16.38	16.31		
15	QPSK	36	20	16.18	16.31	16.24		
15	QPSK	36	39	16.23	16.32	16.26	16.9	0
15	QPSK	75	0	16.21	16.39	16.31		
15	16QAM	1	0	16.31	16.39	16.23		
15	16QAM	1	37	16.16	16.35	16.17		
15	16QAM	1	74	16.33	16.45	16.37	16.9	0
15	16QAM	36	0	16.26	16.37	16.30		
15	16QAM	36	20	16.15	16.25	16.18		
15	16QAM	36	39	16.26	16.42	16.28		
15	16QAM	75	0	16.22	16.31	16.26	16.9	0
15	64QAM	1	0	16.19	16.36	16.30		
15	64QAM	1	37	16.22	16.24	16.12		
15	64QAM	1	74	16.32	16.34	16.28		



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15	64QAM	36	0	16.28	16.33	16.26	16.9	0
15	64QAM	36	20	16.17	16.28	16.15		
15	64QAM	36	39	16.35	16.43	16.35		
15	64QAM	75	0	16.32	16.32	16.19		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.40	16.43	16.46	16.9	0
10	QPSK	1	25	16.25	16.39	16.33		
10	QPSK	1	49	16.36	16.33	16.31		
10	QPSK	25	0	16.36	16.46	16.31	16.9	0
10	QPSK	25	12	16.13	16.25	16.30		
10	QPSK	25	25	16.22	16.39	16.30		
10	QPSK	50	0	16.24	16.30	16.25	16.9	0
10	16QAM	1	0	16.35	16.40	16.28		
10	16QAM	1	25	16.23	16.27	16.22		
10	16QAM	1	49	16.40	16.42	16.28	16.9	0
10	16QAM	25	0	16.27	16.32	16.23		
10	16QAM	25	12	16.17	16.24	16.22		
10	16QAM	25	25	16.30	16.41	16.26	16.9	0
10	16QAM	50	0	16.27	16.33	16.19		
10	64QAM	1	0	16.25	16.32	16.29		
10	64QAM	1	25	16.25	16.30	16.11	16.9	0
10	64QAM	1	49	16.29	16.38	16.28		
10	64QAM	25	0	16.29	16.32	16.27		
10	64QAM	25	12	16.10	16.23	16.18	16.9	0
10	64QAM	25	25	16.29	16.36	16.37		
10	64QAM	50	0	16.26	16.33	16.20		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.38	16.53	16.37	16.9	0
5	QPSK	1	12	16.32	16.43	16.38		
5	QPSK	1	24	16.33	16.30	16.33		
5	QPSK	12	0	16.37	16.39	16.24	16.9	0
5	QPSK	12	7	16.12	16.29	16.27		
5	QPSK	12	13	16.26	16.34	16.31		
5	QPSK	25	0	16.30	16.37	16.33	16.9	0
5	16QAM	1	0	16.39	16.41	16.18		
5	16QAM	1	12	16.20	16.27	16.21		
5	16QAM	1	24	16.32	16.43	16.29	16.9	0
5	16QAM	12	0	16.21	16.29	16.23		
5	16QAM	12	7	16.14	16.24	16.12		
5	16QAM	12	13	16.30	16.40	16.33	16.9	0
5	16QAM	25	0	16.20	16.36	16.16		
5	64QAM	1	0	16.27	16.36	16.31		
5	64QAM	1	12	16.23	16.28	16.20	16.9	0
5	64QAM	1	24	16.25	16.36	16.26		
5	64QAM	12	0	16.32	16.40	16.35		
5	64QAM	12	7	16.11	16.23	16.17	16.9	0
5	64QAM	12	13	16.27	16.40	16.34		
5	64QAM	25	0	16.29	16.33	16.29		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	16.31	16.44	16.44	16.9	0
3	QPSK	1	8	16.24	16.38	16.33		
3	QPSK	1	14	16.32	16.30	16.22		



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3	QPSK	8	0	16.27	16.45	16.28	16.9	0
3	QPSK	8	4	16.22	16.26	16.20		
3	QPSK	8	7	16.23	16.38	16.22		
3	QPSK	15	0	16.29	16.32	16.31	16.9	0
3	16QAM	1	0	16.30	16.34	16.23		
3	16QAM	1	8	16.14	16.34	16.18		
3	16QAM	1	14	16.32	16.38	16.32	16.9	0
3	16QAM	8	0	16.30	16.34	16.32		
3	16QAM	8	4	16.12	16.25	16.15		
3	16QAM	8	7	16.25	16.42	16.25	16.9	0
3	16QAM	15	0	16.25	16.37	16.21		
3	64QAM	1	0	16.26	16.44	16.28		
3	64QAM	1	8	16.24	16.27	16.11	16.9	0
3	64QAM	1	14	16.29	16.32	16.31		
3	64QAM	8	0	16.40	16.42	16.25		
3	64QAM	8	4	16.11	16.28	16.11	16.9	0
3	64QAM	8	7	16.28	16.38	16.32		
3	64QAM	15	0	16.22	16.29	16.19		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.31	16.48	16.41	16.9	0
1.4	QPSK	1	3	16.28	16.44	16.37		
1.4	QPSK	1	5	16.37	16.36	16.28		
1.4	QPSK	3	0	16.29	16.44	16.25		
1.4	QPSK	3	1	16.15	16.24	16.23		
1.4	QPSK	3	3	16.18	16.30	16.23		
1.4	QPSK	6	0	16.30	16.31	16.26	16.9	0
1.4	16QAM	1	0	16.40	16.33	16.23	16.9	0
1.4	16QAM	1	3	16.20	16.37	16.25		
1.4	16QAM	1	5	16.34	16.47	16.35		
1.4	16QAM	3	0	16.25	16.36	16.21		
1.4	16QAM	3	1	16.18	16.23	16.15		
1.4	16QAM	3	3	16.26	16.40	16.25		
1.4	16QAM	6	0	16.27	16.35	16.15	16.9	0
1.4	64QAM	1	0	16.24	16.42	16.25	16.9	0
1.4	64QAM	1	3	16.21	16.28	16.11		
1.4	64QAM	1	5	16.26	16.42	16.29		
1.4	64QAM	3	0	16.29	16.34	16.32		
1.4	64QAM	3	1	16.12	16.28	16.15		
1.4	64QAM	3	3	16.25	16.42	16.36		
1.4	64QAM	6	0	16.23	16.32	16.20	16.9	0



LTE Band 71								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	683	688		
20	QPSK	1	0	23.47	23.52	23.41	24.4	0
20	QPSK	1	49	23.44	23.47	23.35		
20	QPSK	1	99	23.39	23.42	23.28		
20	QPSK	50	0	22.91	22.96	22.83	24	0.4
20	QPSK	50	24	22.84	22.83	22.84		
20	QPSK	50	50	22.73	22.82	22.73		
20	QPSK	100	0	22.85	22.87	22.76	24	0.4
20	16QAM	1	0	22.83	22.98	22.89		
20	16QAM	1	49	22.77	22.99	22.76		
20	16QAM	1	99	22.79	22.84	22.73	23	1.4
20	16QAM	50	0	21.95	21.95	21.91		
20	16QAM	50	24	21.85	21.89	21.75		
20	16QAM	50	50	21.69	21.77	21.76	23	1.4
20	16QAM	100	0	21.76	21.83	21.80		
20	64QAM	1	0	21.85	21.92	21.97		
20	64QAM	1	49	21.74	21.89	21.74	23	1.4
20	64QAM	1	99	21.70	21.90	21.75		
20	64QAM	50	0	20.93	21.03	20.90		
20	64QAM	50	24	20.83	20.87	20.82	22	2.4
20	64QAM	50	50	20.80	20.82	20.79		
20	64QAM	100	0	20.72	20.93	20.89		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.39	23.46	23.29	24.4	0
15	QPSK	1	37	23.37	23.40	23.21		
15	QPSK	1	74	23.32	23.28	23.13		
15	QPSK	36	0	22.84	22.84	22.69	24	0.4
15	QPSK	36	20	22.79	22.79	22.75		
15	QPSK	36	39	22.68	22.74	22.65		
15	QPSK	75	0	22.76	22.82	22.72	24	0.4
15	16QAM	1	0	22.76	22.91	22.83		
15	16QAM	1	37	22.63	22.91	22.72		
15	16QAM	1	74	22.64	22.72	22.59	23	1.4
15	16QAM	36	0	21.80	21.80	21.83		
15	16QAM	36	20	21.75	21.83	21.62		
15	16QAM	36	39	21.56	21.64	21.66	23	1.4
15	16QAM	75	0	21.72	21.80	21.75		
15	64QAM	1	0	21.70	21.88	21.83		
15	64QAM	1	37	21.70	21.84	21.65	23	1.4
15	64QAM	1	74	21.66	21.86	21.70		
15	64QAM	36	0	20.80	20.96	20.79		
15	64QAM	36	20	20.69	20.78	20.73	22	2.4
15	64QAM	36	39	20.65	20.73	20.65		
15	64QAM	75	0	20.66	20.78	20.80		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.34	23.42	23.30	24.4	0
10	QPSK	1	25	23.36	23.41	23.29		
10	QPSK	1	49	23.36	23.37	23.15		
10	QPSK	25	0	22.76	22.86	22.77	24	0.4



10	QPSK	25	12	22.77	22.71	22.70		
10	QPSK	25	25	22.64	22.76	22.70		
10	QPSK	50	0	22.81	22.82	22.64		
10	16QAM	1	0	22.70	22.89	22.80	24	0.4
10	16QAM	1	25	22.64	22.91	22.72		
10	16QAM	1	49	22.74	22.74	22.66		
10	16QAM	25	0	21.87	21.85	21.77	23	1.4
10	16QAM	25	12	21.74	21.80	21.64		
10	16QAM	25	25	21.65	21.68	21.63		
10	16QAM	50	0	21.63	21.78	21.68	23	1.4
10	64QAM	1	0	21.74	21.77	21.87		
10	64QAM	1	25	21.65	21.76	21.62		
10	64QAM	1	49	21.61	21.83	21.67	22	2.4
10	64QAM	25	0	20.88	20.98	20.77		
10	64QAM	25	12	20.74	20.79	20.73		
10	64QAM	25	25	20.74	20.75	20.65		
10	64QAM	50	0	20.57	20.85	20.80		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.33	23.41	23.35	24.4	0
5	QPSK	1	12	23.37	23.43	23.26		
5	QPSK	1	24	23.28	23.33	23.22		
5	QPSK	12	0	22.88	22.86	22.68	24	0.4
5	QPSK	12	7	22.73	22.76	22.74		
5	QPSK	12	13	22.68	22.72	22.68		
5	QPSK	25	0	22.80	22.82	22.62	24	0.4
5	16QAM	1	0	22.78	22.85	22.78		
5	16QAM	1	12	22.69	22.87	22.61		
5	16QAM	1	24	22.70	22.69	22.65	23	1.4
5	16QAM	12	0	21.90	21.84	21.86		
5	16QAM	12	7	21.74	21.85	21.66		
5	16QAM	12	13	21.61	21.63	21.66	23	1.4
5	16QAM	25	0	21.68	21.74	21.69		
5	64QAM	1	0	21.81	21.79	21.86		
5	64QAM	1	12	21.68	21.76	21.61	22	2.4
5	64QAM	1	24	21.62	21.83	21.72		
5	64QAM	12	0	20.89	20.96	20.83		
5	64QAM	12	7	20.78	20.81	20.78		
5	64QAM	12	13	20.68	20.77	20.64		
5	64QAM	25	0	20.58	20.82	20.86		



Ant2

LTE Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	17.2	0
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	16.15	16.20	16.09	17.2	0
20	QPSK	1	49	16.12	16.18	16.09		
20	QPSK	1	99	16.20	16.18	16.10		
20	QPSK	50	0	16.15	16.17	16.11	17.2	0
20	QPSK	50	24	16.13	16.14	16.07		
20	QPSK	50	50	16.10	16.15	16.06		
20	QPSK	100	0	16.20	16.22	16.06	17.2	0
20	16QAM	1	0	16.06	16.26	16.16		
20	16QAM	1	49	16.19	16.12	16.12		
20	16QAM	1	99	16.12	16.20	16.11	17.2	0
20	16QAM	50	0	16.15	16.25	16.12		
20	16QAM	50	24	16.19	16.17	16.07		
20	16QAM	50	50	16.22	16.15	16.08	17.2	0
20	16QAM	100	0	16.10	16.25	16.13		
20	64QAM	1	0	16.18	16.20	16.06		
20	64QAM	1	49	16.10	16.26	16.11	17.2	0
20	64QAM	1	99	16.16	16.14	16.09		
20	64QAM	50	0	16.11	16.19	16.07		
20	64QAM	50	24	16.20	16.24	16.08	17.2	0
20	64QAM	50	50	16.14	16.19	16.08		
20	64QAM	100	0	16.23	16.22	16.05		
Channel				18675	18900	19125	17.2	0
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	16.11	16.17	16.14	17.2	0
15	QPSK	1	37	16.10	16.13	16.13		
15	QPSK	1	74	16.15	16.19	16.15		
15	QPSK	36	0	16.12	16.12	16.07	17.2	0
15	QPSK	36	20	16.14	16.14	16.03		
15	QPSK	36	39	16.07	16.11	16.08		
15	QPSK	75	0	16.22	16.23	16.08	17.2	0
15	16QAM	1	0	16.02	16.26	16.16		
15	16QAM	1	37	16.20	16.07	16.15		
15	16QAM	1	74	16.13	16.18	16.10	17.2	0
15	16QAM	36	0	16.19	16.27	16.09		
15	16QAM	36	20	16.24	16.14	16.09		
15	16QAM	36	39	16.22	16.17	16.11	17.2	0
15	16QAM	75	0	16.10	16.23	16.10		
15	64QAM	1	0	16.19	16.21	16.08		
15	64QAM	1	37	16.14	16.29	16.11	17.2	0
15	64QAM	1	74	16.19	16.11	16.05		
15	64QAM	36	0	16.16	16.15	16.10		
15	64QAM	36	20	16.20	16.23	16.07	17.2	0
15	64QAM	36	39	16.12	16.21	16.05		
15	64QAM	75	0	16.22	16.20	16.01		
Channel				18650	18900	19150	17.2	0
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	16.11	16.15	16.09	17.2	0
10	QPSK	1	25	16.13	16.19	16.04		
10	QPSK	1	49	16.17	16.19	16.13		



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10	QPSK	25	0	16.15	16.19	16.16	17.2	0
10	QPSK	25	12	16.13	16.17	16.03		
10	QPSK	25	25	16.09	16.16	16.11		
10	QPSK	50	0	16.25	16.21	16.08		
10	16QAM	1	0	16.10	16.24	16.20	17.2	0
10	16QAM	1	25	16.14	16.14	16.11		
10	16QAM	1	49	16.12	16.16	16.13		
10	16QAM	25	0	16.13	16.28	16.14	17.2	0
10	16QAM	25	12	16.22	16.17	16.03		
10	16QAM	25	25	16.22	16.14	16.06		
10	16QAM	50	0	16.15	16.29	16.10		
10	64QAM	1	0	16.15	16.23	16.05	17.2	0
10	64QAM	1	25	16.09	16.28	16.14		
10	64QAM	1	49	16.19	16.15	16.13		
10	64QAM	25	0	16.14	16.18	16.02	17.2	0
10	64QAM	25	12	16.15	16.26	16.04		
10	64QAM	25	25	16.11	16.21	16.07		
10	64QAM	50	0	16.25	16.19	16.05		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	16.20	16.20	16.12	17.2	0
5	QPSK	1	12	16.08	16.20	16.11		
5	QPSK	1	24	16.17	16.14	16.09		
5	QPSK	12	0	16.18	16.17	16.14	17.2	0
5	QPSK	12	7	16.12	16.15	16.04		
5	QPSK	12	13	16.09	16.15	16.02		
5	QPSK	25	0	16.21	16.20	16.10		
5	16QAM	1	0	16.04	16.22	16.19	17.2	0
5	16QAM	1	12	16.17	16.12	16.12		
5	16QAM	1	24	16.14	16.21	16.09		
5	16QAM	12	0	16.19	16.25	16.09	17.2	0
5	16QAM	12	7	16.15	16.17	16.03		
5	16QAM	12	13	16.18	16.19	16.13		
5	16QAM	25	0	16.14	16.24	16.13		
5	64QAM	1	0	16.18	16.24	16.01	17.2	0
5	64QAM	1	12	16.08	16.28	16.13		
5	64QAM	1	24	16.16	16.16	16.08		
5	64QAM	12	0	16.09	16.15	16.06	17.2	0
5	64QAM	12	7	16.19	16.19	16.10		
5	64QAM	12	13	16.15	16.15	16.13		
5	64QAM	25	0	16.19	16.23	16.02		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	16.11	16.21	16.11	17.2	0
3	QPSK	1	8	16.11	16.15	16.08		
3	QPSK	1	14	16.15	16.19	16.06		
3	QPSK	8	0	16.19	16.12	16.13	17.2	0
3	QPSK	8	4	16.13	16.14	16.08		
3	QPSK	8	7	16.12	16.11	16.02		
3	QPSK	15	0	16.19	16.23	16.05		
3	16QAM	1	0	16.10	16.24	16.13	17.2	0
3	16QAM	1	8	16.22	16.12	16.12		
3	16QAM	1	14	16.15	16.21	16.07		
3	16QAM	8	0	16.11	16.24	16.09	17.2	0
3	16QAM	8	4	16.15	16.15	16.09		



3	16QAM	8	7	16.26	16.15	16.06		
3	16QAM	15	0	16.14	16.26	16.09		
3	64QAM	1	0	16.16	16.24	16.11		
3	64QAM	1	8	16.12	16.23	16.16	17.2	0
3	64QAM	1	14	16.14	16.09	16.13		
3	64QAM	8	0	16.09	16.20	16.04		
3	64QAM	8	4	16.25	16.22	16.04	17.2	0
3	64QAM	8	7	16.18	16.19	16.05		
3	64QAM	15	0	16.22	16.21	16.07		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	16.18	16.16	16.12	17.2	0
1.4	QPSK	1	3	16.11	16.23	16.04		
1.4	QPSK	1	5	16.23	16.22	16.05		
1.4	QPSK	3	0	16.13	16.19	16.09		
1.4	QPSK	3	1	16.17	16.14	16.07		
1.4	QPSK	3	3	16.11	16.13	16.10		
1.4	QPSK	6	0	16.23	16.20	16.10	17.2	0
1.4	16QAM	1	0	16.06	16.22	16.18	17.2	0
1.4	16QAM	1	3	16.22	16.16	16.11		
1.4	16QAM	1	5	16.13	16.17	16.11		
1.4	16QAM	3	0	16.11	16.24	16.13		
1.4	16QAM	3	1	16.15	16.15	16.04		
1.4	16QAM	3	3	16.23	16.17	16.10		
1.4	16QAM	6	0	16.12	16.29	16.13	17.2	0
1.4	64QAM	1	0	16.15	16.16	16.01	17.2	0
1.4	64QAM	1	3	16.09	16.24	16.16		
1.4	64QAM	1	5	16.15	16.09	16.09		
1.4	64QAM	3	0	16.12	16.17	16.11		
1.4	64QAM	3	1	16.18	16.27	16.11		
1.4	64QAM	3	3	16.15	16.14	16.04		
1.4	64QAM	6	0	16.22	16.22	16.01	17.2	0



LTE Band 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.77	22.88	22.82	24.1	0
10	QPSK	1	25	22.81	22.86	22.83		
10	QPSK	1	49	22.73	22.84	22.83		
10	QPSK	25	0	22.69	22.78	22.70	24	0.1
10	QPSK	25	12	22.63	22.69	22.68		
10	QPSK	25	25	22.65	22.71	22.75		
10	QPSK	50	0	22.61	22.71	22.70	24	0.1
10	16QAM	1	0	22.63	22.76	22.72		
10	16QAM	1	25	22.68	22.69	22.66		
10	16QAM	1	49	22.66	22.75	22.73	23	1.1
10	16QAM	25	0	21.64	21.69	21.75		
10	16QAM	25	12	21.64	21.76	21.71		
10	16QAM	25	25	21.64	21.78	21.75	23	1.1
10	16QAM	50	0	21.65	21.73	21.71		
10	64QAM	1	0	21.67	21.71	21.70		
10	64QAM	1	25	21.62	21.73	21.67	23	1.1
10	64QAM	1	49	21.64	21.74	21.68		
10	64QAM	25	0	20.72	20.71	20.71		
10	64QAM	25	12	20.68	20.78	20.73	22	2.1
10	64QAM	25	25	20.69	20.74	20.70		
10	64QAM	50	0	20.60	20.76	20.73		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.78	22.81	22.86	24.1	0
5	QPSK	1	12	22.82	22.88	22.83		
5	QPSK	1	24	22.79	22.85	22.85		
5	QPSK	12	0	22.63	22.82	22.63	24	0.1
5	QPSK	12	7	22.70	22.73	22.65		
5	QPSK	12	13	22.71	22.75	22.68		
5	QPSK	25	0	22.66	22.71	22.76	24	0.1
5	16QAM	1	0	22.56	22.81	22.78		
5	16QAM	1	12	22.62	22.71	22.61		
5	16QAM	1	24	22.63	22.74	22.72	23	1.1
5	16QAM	12	0	21.58	21.71	21.79		
5	16QAM	12	7	21.67	21.75	21.72		
5	16QAM	12	13	21.58	21.75	21.69	23	1.1
5	16QAM	25	0	21.67	21.70	21.65		
5	64QAM	1	0	21.65	21.68	21.77		
5	64QAM	1	12	21.61	21.77	21.64	23	1.1
5	64QAM	1	24	21.60	21.76	21.73		
5	64QAM	12	0	20.69	20.74	20.69		
5	64QAM	12	7	20.73	20.72	20.75	22	2.1
5	64QAM	12	13	20.76	20.67	20.66		
5	64QAM	25	0	20.65	20.78	20.70		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.71	22.85	22.89	24.1	0
3	QPSK	1	8	22.78	22.90	22.80		
3	QPSK	1	14	22.68	22.78	22.87		
3	QPSK	8	0	22.73	22.74	22.66	24	0.1



3	QPSK	8	4	22.57	22.69	22.63		
3	QPSK	8	7	22.71	22.66	22.78		
3	QPSK	15	0	22.63	22.73	22.67		
3	16QAM	1	0	22.64	22.73	22.74	24	0.1
3	16QAM	1	8	22.63	22.66	22.60		
3	16QAM	1	14	22.69	22.70	22.67		
3	16QAM	8	0	21.62	21.69	21.77	23	1.1
3	16QAM	8	4	21.66	21.70	21.74		
3	16QAM	8	7	21.65	21.77	21.69		
3	16QAM	15	0	21.61	21.78	21.77	23	1.1
3	64QAM	1	0	21.74	21.70	21.76		
3	64QAM	1	8	21.67	21.72	21.69		
3	64QAM	1	14	21.58	21.80	21.74	22	2.1
3	64QAM	8	0	20.73	20.71	20.70		
3	64QAM	8	4	20.71	20.78	20.69		
3	64QAM	8	7	20.73	20.71	20.68		
3	64QAM	15	0	20.63	20.74	20.68		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.74	22.80	22.90	24.1	0
1.4	QPSK	1	3	22.77	22.88	22.86		
1.4	QPSK	1	5	22.63	22.72	22.83		
1.4	QPSK	3	0	22.76	22.82	22.90		
1.4	QPSK	3	1	22.79	22.90	22.85		
1.4	QPSK	3	3	22.61	22.71	22.89		
1.4	QPSK	6	0	22.73	22.78	22.70	24	0.1
1.4	16QAM	1	0	22.55	22.81	22.77	24	0.1
1.4	16QAM	1	3	22.63	22.74	22.73		
1.4	16QAM	1	5	22.62	22.74	22.83		
1.4	16QAM	3	0	22.66	22.71	22.87		
1.4	16QAM	3	1	22.79	22.82	22.79		
1.4	16QAM	3	3	22.60	22.61	22.81		
1.4	16QAM	6	0	21.65	21.74	21.86	23	1.1
1.4	64QAM	1	0	21.67	21.78	21.64	23	1.1
1.4	64QAM	1	3	21.54	21.66	21.78		
1.4	64QAM	1	5	21.56	21.65	21.80		
1.4	64QAM	3	0	21.70	21.81	21.68		
1.4	64QAM	3	1	21.60	21.65	21.77		
1.4	64QAM	3	3	21.76	21.85	21.71		
1.4	64QAM	6	0	20.63	20.79	20.84	22	2.1



LTE Band 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	16.1	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	15.26	15.31	15.14	16.1	0
20	QPSK	1	49	15.18	15.14	15.11		
20	QPSK	1	99	15.11	15.06	15.06		
20	QPSK	50	0	15.08	15.23	15.10	16.1	0
20	QPSK	50	24	15.16	15.01	15.14		
20	QPSK	50	50	15.11	15.06	15.09		
20	QPSK	100	0	15.10	15.19	15.11	16.1	0
20	16QAM	1	0	15.18	15.21	15.07		
20	16QAM	1	49	15.10	15.27	15.18		
20	16QAM	1	99	15.13	15.23	15.08	16.1	0
20	16QAM	50	0	15.07	15.15	15.08		
20	16QAM	50	24	15.09	15.21	15.04		
20	16QAM	50	50	15.11	15.19	15.20	16.1	0
20	16QAM	100	0	15.11	15.23	15.04		
20	64QAM	1	0	15.05	15.22	15.11		
20	64QAM	1	49	15.18	15.16	15.12	16.1	0
20	64QAM	1	99	15.20	15.25	15.05		
20	64QAM	50	0	15.19	15.18	15.07		
20	64QAM	50	24	15.23	15.09	15.19	16.1	0
20	64QAM	50	50	15.12	15.13	15.12		
20	64QAM	100	0	15.09	15.15	15.18		
Channel				20825	21100	21375	16.1	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	15.11	15.22	15.00	16.1	0
15	QPSK	1	37	15.13	15.11	14.94		
15	QPSK	1	74	15.05	14.97	14.89		
15	QPSK	36	0	15.05	15.05	14.94	16.1	0
15	QPSK	36	20	15.01	14.92	15.05		
15	QPSK	36	39	14.95	14.94	14.99		
15	QPSK	75	0	15.02	15.14	15.05	16.1	0
15	16QAM	1	0	15.06	15.03	15.04		
15	16QAM	1	37	14.96	15.10	15.11		
15	16QAM	1	74	14.97	15.16	14.91	16.1	0
15	16QAM	36	0	14.99	15.03	15.02		
15	16QAM	36	20	14.95	15.05	14.89		
15	16QAM	36	39	15.07	15.13	15.14	16.1	0
15	16QAM	75	0	15.03	15.06	14.99		
15	64QAM	1	0	14.94	15.07	15.01		
15	64QAM	1	37	15.11	15.07	15.08	16.1	0
15	64QAM	1	74	15.10	15.19	14.92		
15	64QAM	36	0	15.05	15.03	14.93		
15	64QAM	36	20	15.16	15.03	15.10	16.1	0
15	64QAM	36	39	15.01	14.95	15.09		
15	64QAM	75	0	14.94	15.06	15.14		
Channel				20800	21100	21400	16.1	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	15.23	15.18	15.02	16.1	0
10	QPSK	1	25	15.01	15.06	14.95		
10	QPSK	1	49	15.09	14.89	14.91		
10	QPSK	25	0	15.02	15.12	15.06	16.1	0



10	QPSK	25	12	15.00	14.95	15.02		
10	QPSK	25	25	15.05	14.95	15.02		
10	QPSK	50	0	14.97	15.02	14.96		
10	16QAM	1	0	15.10	15.15	14.92	16.1	0
10	16QAM	1	25	15.01	15.18	15.04		
10	16QAM	1	49	15.05	15.06	14.96		
10	16QAM	25	0	14.89	15.08	14.96	16.1	0
10	16QAM	25	12	14.94	15.14	14.98		
10	16QAM	25	25	15.08	15.03	15.04		
10	16QAM	50	0	15.06	15.16	14.89	16.1	0
10	64QAM	1	0	14.99	15.19	15.00		
10	64QAM	1	25	15.02	15.04	15.04		
10	64QAM	1	49	15.13	15.13	14.89	16.1	0
10	64QAM	25	0	15.13	15.07	14.95		
10	64QAM	25	12	15.07	15.05	15.16		
10	64QAM	25	25	15.02	15.07	15.10	16.1	0
10	64QAM	50	0	15.05	15.02	15.11		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	15.19	15.28	14.96	16.1	0
5	QPSK	1	12	15.10	14.99	14.93		
5	QPSK	1	24	15.08	14.94	14.92		
5	QPSK	12	0	14.98	15.11	15.00	16.1	0
5	QPSK	12	7	15.12	14.88	15.00		
5	QPSK	12	13	14.96	15.04	15.04		
5	QPSK	25	0	15.05	15.10	14.97	16.1	0
5	16QAM	1	0	15.12	15.16	14.97		
5	16QAM	1	12	14.93	15.10	15.14		
5	16QAM	1	24	15.03	15.09	15.03	16.1	0
5	16QAM	12	0	14.94	15.04	14.95		
5	16QAM	12	7	14.94	15.08	15.01		
5	16QAM	12	13	15.00	15.09	15.08	16.1	0
5	16QAM	25	0	14.93	15.11	15.02		
5	64QAM	1	0	14.96	15.14	15.05		
5	64QAM	1	12	15.02	15.05	15.03	16.1	0
5	64QAM	1	24	15.15	15.10	14.92		
5	64QAM	12	0	15.11	15.07	14.93		
5	64QAM	12	7	15.15	14.91	15.02	16.1	0
5	64QAM	12	13	15.01	15.00	15.03		
5	64QAM	25	0	15.03	15.00	15.03		



LTE Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.64	16.71	16.59	17.5	0
20	QPSK	1	49	16.67	16.67	16.60		
20	QPSK	1	99	16.61	16.62	16.59		
20	QPSK	50	0	16.63	16.65	16.62	17.5	0
20	QPSK	50	24	16.59	16.55	16.57		
20	QPSK	50	50	16.58	16.52	16.63		
20	QPSK	100	0	16.63	16.68	16.66	17.5	0
20	16QAM	1	0	16.65	16.70	16.61		
20	16QAM	1	49	16.65	16.70	16.64		
20	16QAM	1	99	16.63	16.66	16.65	17.5	0
20	16QAM	50	0	16.64	16.68	16.58		
20	16QAM	50	24	16.63	16.70	16.61		
20	16QAM	50	50	16.63	16.69	16.67	17.5	0
20	16QAM	100	0	16.61	16.66	16.57		
20	64QAM	1	0	16.60	16.69	16.62		
20	64QAM	1	49	16.60	16.69	16.62	17.5	0
20	64QAM	1	99	16.64	16.70	16.59		
20	64QAM	50	0	16.61	16.68	16.64		
20	64QAM	50	24	16.67	16.66	16.64	17.5	0
20	64QAM	50	50	16.64	16.67	16.60		
20	64QAM	100	0	16.64	16.65	16.62		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.59	16.64	16.62		
15	QPSK	1	37	16.71	16.70	16.58	17.5	0
15	QPSK	1	74	16.62	16.59	16.57		
15	QPSK	36	0	16.67	16.62	16.64	17.5	0
15	QPSK	36	20	16.55	16.53	16.58		
15	QPSK	36	39	16.58	16.50	16.65		
15	QPSK	75	0	16.66	16.67	16.68	17.5	0
15	16QAM	1	0	16.65	16.72	16.57		
15	16QAM	1	37	16.60	16.69	16.63		
15	16QAM	1	74	16.62	16.71	16.69	17.5	0
15	16QAM	36	0	16.65	16.65	16.60		
15	16QAM	36	20	16.65	16.71	16.58		
15	16QAM	36	39	16.66	16.74	16.64	17.5	0
15	16QAM	75	0	16.65	16.62	16.55		
15	64QAM	1	0	16.64	16.72	16.65		
15	64QAM	1	37	16.61	16.66	16.61	17.5	0
15	64QAM	1	74	16.65	16.66	16.56		
15	64QAM	36	0	16.64	16.78	16.65		
15	64QAM	36	20	16.72	16.64	16.62	17.5	0
15	64QAM	36	39	16.61	16.70	16.59		
15	64QAM	75	0	16.63	16.68	16.64		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.64	16.70	16.55		
10	QPSK	1	25	16.63	16.68	16.65	17.5	0
10	QPSK	1	49	16.65	16.65	16.63		
10	QPSK	25	0	16.67	16.61	16.60		



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10	QPSK	25	12	16.64	16.58	16.61		
10	QPSK	25	25	16.62	16.48	16.64		
10	QPSK	50	0	16.64	16.66	16.62		
10	16QAM	1	0	16.62	16.73	16.56	17.5	0
10	16QAM	1	25	16.62	16.69	16.59		
10	16QAM	1	49	16.61	16.61	16.64		
10	16QAM	25	0	16.63	16.67	16.59	17.5	0
10	16QAM	25	12	16.63	16.77	16.59		
10	16QAM	25	25	16.60	16.70	16.69		
10	16QAM	50	0	16.60	16.67	16.58	17.5	0
10	64QAM	1	0	16.64	16.71	16.63		
10	64QAM	1	25	16.55	16.69	16.62		
10	64QAM	1	49	16.65	16.69	16.54	17.5	0
10	64QAM	25	0	16.59	16.79	16.63		
10	64QAM	25	12	16.69	16.65	16.68		
10	64QAM	25	25	16.65	16.70	16.59	17.5	0
10	64QAM	50	0	16.69	16.61	16.60		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.62	16.68	16.61	17.5	0
5	QPSK	1	12	16.63	16.69	16.59		
5	QPSK	1	24	16.62	16.67	16.61		
5	QPSK	12	0	16.60	16.67	16.58	17.5	0
5	QPSK	12	7	16.60	16.57	16.61		
5	QPSK	12	13	16.63	16.49	16.63		
5	QPSK	25	0	16.64	16.72	16.69	17.5	0
5	16QAM	1	0	16.64	16.70	16.64		
5	16QAM	1	12	16.65	16.69	16.67		
5	16QAM	1	24	16.64	16.71	16.60	17.5	0
5	16QAM	12	0	16.65	16.66	16.62		
5	16QAM	12	7	16.60	16.77	16.59		
5	16QAM	12	13	16.66	16.71	16.63	17.5	0
5	16QAM	25	0	16.59	16.61	16.55		
5	64QAM	1	0	16.56	16.71	16.65		
5	64QAM	1	12	16.60	16.66	16.60	17.5	0
5	64QAM	1	24	16.66	16.69	16.62		
5	64QAM	12	0	16.65	16.78	16.67		
5	64QAM	12	7	16.65	16.71	16.62	17.5	0
5	64QAM	12	13	16.64	16.69	16.57		
5	64QAM	25	0	16.68	16.64	16.62		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	16.66	16.65	16.55	17.5	0
3	QPSK	1	8	16.67	16.66	16.59		
3	QPSK	1	14	16.60	16.61	16.56		
3	QPSK	8	0	16.65	16.65	16.64	17.5	0
3	QPSK	8	4	16.58	16.59	16.55		
3	QPSK	8	7	16.57	16.54	16.66		
3	QPSK	15	0	16.66	16.67	16.70	17.5	0
3	16QAM	1	0	16.60	16.66	16.57		
3	16QAM	1	8	16.64	16.74	16.59		
3	16QAM	1	14	16.66	16.66	16.63	17.5	0
3	16QAM	8	0	16.68	16.73	16.54		
3	16QAM	8	4	16.63	16.75	16.56		
3	16QAM	8	7	16.67	16.69	16.70		

3	16QAM	15	0	16.62	16.70	16.54		
3	64QAM	1	0	16.63	16.74	16.66	17.5	0
3	64QAM	1	8	16.59	16.69	16.65		
3	64QAM	1	14	16.63	16.72	16.61		
3	64QAM	8	0	16.63	16.72	16.68	17.5	0
3	64QAM	8	4	16.69	16.69	16.60		
3	64QAM	8	7	16.60	16.71	16.59		
3	64QAM	15	0	16.69	16.64	16.62		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.65	16.63	16.61	17.5	0
1.4	QPSK	1	3	16.71	16.69	16.57		
1.4	QPSK	1	5	16.62	16.62	16.59		
1.4	QPSK	3	0	16.63	16.65	16.59		
1.4	QPSK	3	1	16.59	16.54	16.54		
1.4	QPSK	3	3	16.56	16.53	16.60		
1.4	QPSK	6	0	16.65	16.74	16.63	17.5	0
1.4	16QAM	1	0	16.65	16.71	16.56	17.5	0
1.4	16QAM	1	3	16.64	16.70	16.62		
1.4	16QAM	1	5	16.59	16.67	16.64		
1.4	16QAM	3	0	16.65	16.68	16.60		
1.4	16QAM	3	1	16.62	16.70	16.63		
1.4	16QAM	3	3	16.58	16.65	16.68		
1.4	16QAM	6	0	16.63	16.66	16.61	17.5	0
1.4	64QAM	1	0	16.63	16.74	16.62	17.5	0
1.4	64QAM	1	3	16.62	16.67	16.66		
1.4	64QAM	1	5	16.65	16.71	16.59		
1.4	64QAM	3	0	16.63	16.77	16.69		
1.4	64QAM	3	1	16.67	16.64	16.65		
1.4	64QAM	3	3	16.68	16.67	16.62		
1.4	64QAM	6	0	16.64	16.68	16.61	17.5	0

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- "special subframe S" contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

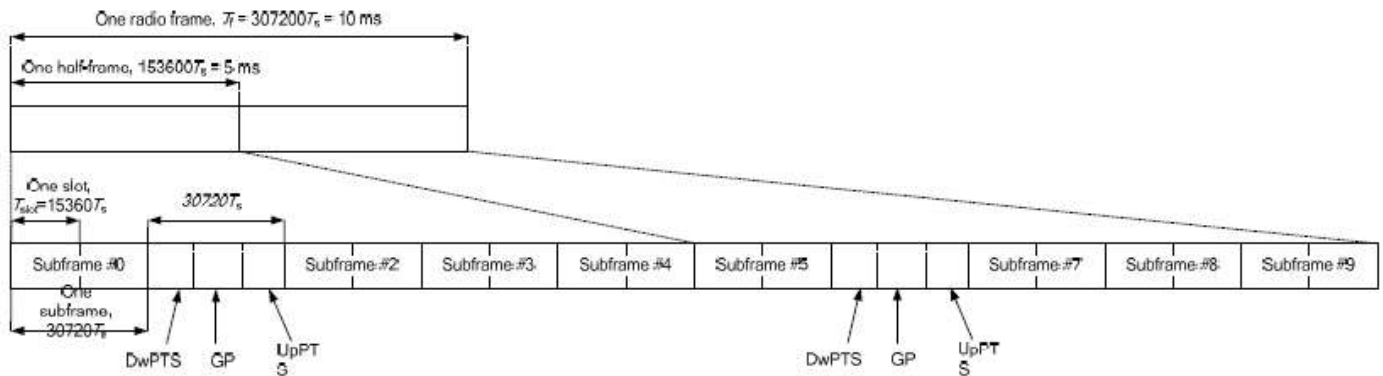


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-	-	-

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

For Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.



Default Power Mode

Ant0

LTE Band 38								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.26	23.31	23.28		
20	QPSK	1	49	23.13	23.21	23.08	24	0
20	QPSK	1	99	23.08	23.18	23.04		
20	QPSK	50	0	22.15	22.23	22.11		
20	QPSK	50	24	22.12	22.22	22.13	23	1
20	QPSK	50	50	22.07	22.15	22.07		
20	QPSK	100	0	22.01	22.14	22.04		
20	16QAM	1	0	22.22	22.31	22.22	23	1
20	16QAM	1	49	22.10	22.25	22.11		
20	16QAM	1	99	22.05	22.18	22.03		
20	16QAM	50	0	21.20	21.28	21.19	22	2
20	16QAM	50	24	21.16	21.26	21.18		
20	16QAM	50	50	21.03	21.18	21.09		
20	16QAM	100	0	20.94	21.08	20.99	22	2
20	64QAM	1	0	20.83	20.90	20.77		
20	64QAM	1	49	20.75	20.88	20.79		
20	64QAM	1	99	20.64	20.79	20.69	21	3
20	64QAM	50	0	20.21	20.34	20.21		
20	64QAM	50	24	20.19	20.27	20.14		
20	64QAM	50	50	20.04	20.11	19.98	21	3
20	64QAM	100	0	20.08	20.16	20.03		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	23.14	23.21	23.16		
15	QPSK	1	37	23.01	23.11	22.94	24	0
15	QPSK	1	74	22.99	23.08	22.97		
15	QPSK	36	0	22.02	22.15	22.01		
15	QPSK	36	20	21.97	22.09	22.05	23	1
15	QPSK	36	39	21.92	22.03	21.97		
15	QPSK	75	0	21.93	22.05	21.91		
15	16QAM	1	0	22.09	22.20	22.13	23	1
15	16QAM	1	37	21.96	22.10	22.00		
15	16QAM	1	74	21.92	22.08	21.94		
15	16QAM	36	0	21.11	21.17	21.11	22	2
15	16QAM	36	20	21.06	21.15	21.03		
15	16QAM	36	39	20.90	21.06	20.98		
15	16QAM	75	0	20.83	20.96	20.90	22	2
15	64QAM	1	0	20.75	20.76	20.66		
15	64QAM	1	37	20.62	20.78	20.69		
15	64QAM	1	74	20.49	20.70	20.59	21	3
15	64QAM	36	0	20.10	20.26	20.12		
15	64QAM	36	20	20.06	20.18	20.00		
15	64QAM	36	39	19.96	20.00	19.84	21	3
15	64QAM	75	0	19.95	20.08	19.96		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	23.18	23.18	23.14		



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10	QPSK	1	25	23.04	23.07	22.96	23	1
10	QPSK	1	49	22.98	23.06	22.91		
10	QPSK	25	0	22.03	22.14	22.03		
10	QPSK	25	12	22.05	22.14	22.03		
10	QPSK	25	25	21.93	22.05	21.92		
10	QPSK	50	0	21.87	22.01	21.91	23	1
10	16QAM	1	0	22.13	22.19	22.12		
10	16QAM	1	25	21.99	22.13	21.98		
10	16QAM	1	49	21.97	22.06	21.95	22	2
10	16QAM	25	0	21.09	21.14	21.07		
10	16QAM	25	12	21.02	21.18	21.03		
10	16QAM	25	25	20.90	21.09	20.99		
10	16QAM	50	0	20.81	20.95	20.87	22	2
10	64QAM	1	0	20.69	20.83	20.67		
10	64QAM	1	25	20.67	20.74	20.64		
10	64QAM	1	49	20.52	20.71	20.55		
10	64QAM	25	0	20.07	20.26	20.10	21	3
10	64QAM	25	12	20.07	20.17	20.02		
10	64QAM	25	25	19.90	20.01	19.88		
10	64QAM	50	0	19.93	20.04	19.93		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.12	23.17	23.17	24	0
5	QPSK	1	12	23.01	23.08	22.95		
5	QPSK	1	24	22.98	23.10	22.95		
5	QPSK	12	0	22.08	22.15	22.00	23	1
5	QPSK	12	7	22.03	22.13	21.98		
5	QPSK	12	13	21.97	22.03	21.99		
5	QPSK	25	0	21.92	22.00	21.93		
5	16QAM	1	0	22.08	22.19	22.11	23	1
5	16QAM	1	12	21.98	22.16	21.99		
5	16QAM	1	24	21.94	22.07	21.89		
5	16QAM	12	0	21.09	21.20	21.04	22	2
5	16QAM	12	7	21.06	21.12	21.04		
5	16QAM	12	13	20.91	21.08	21.01		
5	16QAM	25	0	20.84	20.97	20.84		
5	64QAM	1	0	20.75	20.76	20.66	22	2
5	64QAM	1	12	20.67	20.77	20.66		
5	64QAM	1	24	20.57	20.70	20.59		
5	64QAM	12	0	20.12	20.21	20.08	21	3
5	64QAM	12	7	20.06	20.15	20.01		
5	64QAM	12	13	19.90	19.97	19.87		
5	64QAM	25	0	20.00	20.03	19.90		



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LTE Band 41										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.40	23.43	23.49	23.21	23.47	25	0
20	QPSK	1	49	23.24	23.28	23.38	23.29	23.26		
20	QPSK	1	99	23.26	23.20	23.34	23.24	23.21		
20	QPSK	50	0	22.44	22.41	22.54	22.47	22.46	24	1
20	QPSK	50	24	22.39	22.36	22.48	22.33	22.33		
20	QPSK	50	50	22.32	22.33	22.43	22.32	22.30		
20	QPSK	100	0	22.40	22.36	22.50	22.38	22.40	24	1
20	16QAM	1	0	22.45	22.50	22.50	22.26	22.50		
20	16QAM	1	49	22.31	22.33	22.43	22.32	22.27		
20	16QAM	1	99	22.27	22.25	22.39	22.31	22.24	23	2
20	16QAM	50	0	21.44	21.42	21.62	21.55	21.54		
20	16QAM	50	24	21.40	21.39	21.53	21.37	21.41		
20	16QAM	50	50	21.34	21.39	21.50	21.38	21.37	23	2
20	16QAM	100	0	21.44	21.38	21.51	21.43	21.46		
20	64QAM	1	0	21.44	21.53	21.51	21.24	21.51		
20	64QAM	1	49	21.27	21.36	21.41	21.30	21.29	23	2
20	64QAM	1	99	21.24	21.28	21.38	21.29	21.25		
20	64QAM	50	0	20.46	20.44	20.62	20.51	20.54		
20	64QAM	50	24	20.38	20.41	20.51	20.34	20.44	22	3
20	64QAM	50	50	20.33	20.35	20.47	20.38	20.39		
20	64QAM	100	0	20.42	20.37	20.51	20.38	20.45		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.28	23.30	23.35	23.12	23.35	25.00	0
15	QPSK	1	37	23.12	23.14	23.23	23.17	23.17		
15	QPSK	1	74	23.12	23.06	23.23	23.15	23.12		
15	QPSK	36	0	22.34	22.27	22.41	22.33	22.32	24	1
15	QPSK	36	20	22.29	22.21	22.38	22.19	22.19		
15	QPSK	36	39	22.23	22.19	22.35	22.19	22.17		
15	QPSK	75	0	22.33	22.25	22.42	22.29	22.27	24	1
15	16QAM	1	0	22.38	22.36	22.36	22.16	22.42		
15	16QAM	1	37	22.23	22.21	22.31	22.22	22.13		
15	16QAM	1	74	22.12	22.11	22.29	22.22	22.16	23	2
15	16QAM	36	0	21.34	21.34	21.51	21.44	21.42		
15	16QAM	36	20	21.29	21.28	21.42	21.28	21.30		
15	16QAM	36	39	21.23	21.26	21.37	21.25	21.26	23	2
15	16QAM	75	0	21.31	21.30	21.39	21.29	21.33		
15	64QAM	1	0	21.35	21.45	21.43	21.14	21.43		
15	64QAM	1	37	21.19	21.22	21.34	21.17	21.21	23	2
15	64QAM	1	74	21.13	21.13	21.26	21.22	21.18		
15	64QAM	36	0	20.33	20.31	20.50	20.38	20.40		
15	64QAM	36	20	20.24	20.30	20.41	20.20	20.30	22	3
15	64QAM	36	39	20.22	20.23	20.38	20.31	20.29		
15	64QAM	75	0	20.29	20.30	20.44	20.25	20.36		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.31	23.29	23.41	23.08	23.39	25.00	0



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10	QPSK	1	25	23.11	23.16	23.26	23.21	23.13		
10	QPSK	1	49	23.13	23.11	23.19	23.15	23.12		
10	QPSK	25	0	22.34	22.32	22.39	22.33	22.37		
10	QPSK	25	12	22.25	22.25	22.34	22.18	22.23	24	1
10	QPSK	25	25	22.21	22.19	22.36	22.19	22.17		
10	QPSK	50	0	22.32	22.27	22.43	22.26	22.30		
10	16QAM	1	0	22.35	22.38	22.38	22.12	22.40	24	1
10	16QAM	1	25	22.17	22.20	22.30	22.22	22.15		
10	16QAM	1	49	22.16	22.14	22.25	22.24	22.12		
10	16QAM	25	0	21.35	21.31	21.55	21.44	21.45	23	2
10	16QAM	25	12	21.31	21.25	21.41	21.23	21.31		
10	16QAM	25	25	21.27	21.24	21.37	21.26	21.25		
10	16QAM	50	0	21.31	21.26	21.38	21.32	21.38	23	2
10	64QAM	1	0	21.34	21.39	21.38	21.10	21.42		
10	64QAM	1	25	21.20	21.24	21.29	21.18	21.18		
10	64QAM	1	49	21.15	21.20	21.23	21.21	21.10	22	3
10	64QAM	25	0	20.39	20.34	20.49	20.40	20.40		
10	64QAM	25	12	20.29	20.31	20.40	20.21	20.35		
10	64QAM	25	25	20.18	20.28	20.32	20.29	20.28	22	3
10	64QAM	50	0	20.34	20.28	20.42	20.30	20.36		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.28	23.29	23.35	23.10	23.33	25.00	0
5	QPSK	1	12	23.12	23.15	23.30	23.22	23.13		
5	QPSK	1	24	23.17	23.09	23.25	23.14	23.08		
5	QPSK	12	0	22.32	22.28	22.43	22.34	22.38	24	1
5	QPSK	12	7	22.27	22.22	22.41	22.19	22.21		
5	QPSK	12	13	22.23	22.19	22.34	22.20	22.16		
5	QPSK	25	0	22.27	22.26	22.39	22.26	22.30	24	1
5	16QAM	1	0	22.36	22.39	22.35	22.17	22.43		
5	16QAM	1	12	22.16	22.26	22.35	22.20	22.20		
5	16QAM	1	24	22.12	22.12	22.28	22.20	22.13	23	2
5	16QAM	12	0	21.31	21.29	21.51	21.48	21.43		
5	16QAM	12	7	21.26	21.26	21.46	21.22	21.34		
5	16QAM	12	13	21.24	21.26	21.36	21.29	21.29	23	2
5	16QAM	25	0	21.32	21.30	21.42	21.32	21.38		
5	64QAM	1	0	21.32	21.44	21.39	21.15	21.41		
5	64QAM	1	12	21.17	21.26	21.31	21.15	21.20	23	2
5	64QAM	1	24	21.14	21.20	21.27	21.19	21.18		
5	64QAM	12	0	20.32	20.32	20.51	20.41	20.45		
5	64QAM	12	7	20.24	20.26	20.40	20.21	20.32	22	3
5	64QAM	12	13	20.21	20.21	20.38	20.30	20.25		
5	64QAM	25	0	20.33	20.24	20.42	20.27	20.30		

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LTE Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640	24.5	0
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	23.70	23.86	23.79	23.83		
20	QPSK	1	49	23.68	23.74	23.64	23.75	23.5	1
20	QPSK	1	99	23.72	23.78	23.69	23.70		
20	QPSK	50	0	22.70	22.96	22.88	22.84		
20	QPSK	50	24	22.83	22.87	22.87	22.81	23.5	1
20	QPSK	50	50	22.75	22.85	22.77	22.81		
20	QPSK	100	0	22.62	22.84	22.64	22.65		
20	16QAM	1	0	22.73	22.82	22.68	22.80	23.5	1
20	16QAM	1	49	22.69	22.85	22.72	22.75		
20	16QAM	1	99	22.68	22.78	22.68	22.81		
20	16QAM	50	0	21.72	21.98	21.90	21.81	22.5	2
20	16QAM	50	24	21.91	21.99	21.79	21.77		
20	16QAM	50	50	21.76	21.93	21.72	21.83		
20	16QAM	100	0	21.66	21.85	21.76	21.75	22.5	2
20	64QAM	1	0	21.72	21.80	21.65	21.77		
20	64QAM	1	49	21.66	21.82	21.70	21.84		
20	64QAM	1	99	21.77	21.67	21.75	21.92	21.5	3
20	64QAM	50	0	20.71	20.98	20.85	20.80		
20	64QAM	50	24	21.00	21.00	20.79	20.66		
20	64QAM	50	50	20.85	20.98	20.74	20.89	21.5	3
20	64QAM	50	50	20.85	20.98	20.74	20.89		
20	64QAM	100	0	20.56	20.88	20.73	20.69		
Channel				55315	55820	56160	56665	24.5	0
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	23.67	23.79	23.60	23.80		
15	QPSK	1	37	23.56	23.59	23.62	23.76	23.5	1
15	QPSK	1	74	23.67	23.62	23.51	23.69		
15	QPSK	36	0	22.65	22.75	22.68	22.66		
15	QPSK	36	20	22.62	22.73	22.69	22.70	23.5	1
15	QPSK	36	39	22.73	22.64	22.56	22.81		
15	QPSK	75	0	22.49	22.79	22.57	22.50		
15	16QAM	1	0	22.73	22.75	22.68	22.70	23.5	1
15	16QAM	1	37	22.54	22.68	22.73	22.59		
15	16QAM	1	74	22.56	22.69	22.61	22.79		
15	16QAM	36	0	21.61	21.87	21.75	21.62	22.5	2
15	16QAM	36	20	21.89	21.99	21.68	21.77		
15	16QAM	36	39	21.71	21.92	21.64	21.66		
15	16QAM	75	0	21.61	21.77	21.60	21.62	22.5	2
15	64QAM	1	0	21.66	21.60	21.51	21.69		
15	64QAM	1	37	21.62	21.80	21.48	21.86		
15	64QAM	1	74	21.64	21.63	21.58	21.78	21.5	3
15	64QAM	36	0	20.60	20.94	20.76	20.71		
15	64QAM	36	20	20.90	20.89	20.70	20.58		
15	64QAM	36	39	20.69	20.83	20.62	20.75	21.5	3
15	64QAM	36	39	20.69	20.83	20.62	20.75		
15	64QAM	75	0	20.55	20.77	20.66	20.67		
Channel				55290	55815	56165	56690	24.5	0
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	23.56	23.75	23.74	23.81		
10	QPSK	1	25	23.59	23.71	23.56	23.62		



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10	QPSK	1	49	23.61	23.66	23.66	23.49	23.5	1
10	QPSK	25	0	22.57	22.88	22.85	22.78		
10	QPSK	25	12	22.82	22.78	22.87	22.72		
10	QPSK	25	25	22.75	22.82	22.72	22.81		
10	QPSK	50	0	22.45	22.74	22.45	22.60	23.5	1
10	16QAM	1	0	22.54	22.73	22.54	22.65		
10	16QAM	1	25	22.51	22.71	22.55	22.77		
10	16QAM	1	49	22.69	22.61	22.57	22.59	22.5	2
10	16QAM	25	0	21.72	21.84	21.80	21.74		
10	16QAM	25	12	21.71	21.78	21.58	21.75		
10	16QAM	25	25	21.75	21.83	21.59	21.71		
10	16QAM	50	0	21.65	21.76	21.78	21.58	22.5	2
10	64QAM	1	0	21.51	21.67	21.49	21.57		
10	64QAM	1	25	21.54	21.83	21.57	21.79		
10	64QAM	1	49	21.64	21.45	21.68	21.75	21.5	3
10	64QAM	25	0	20.62	20.76	20.80	20.81		
10	64QAM	25	12	20.88	20.96	20.66	20.64		
10	64QAM	25	25	20.67	20.90	20.72	20.86		
10	64QAM	50	0	20.43	20.80	20.70	20.60	Tune-up limit (dBm)	MPR (dB)
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5	24.5	0
5	QPSK	1	0	23.48	23.70	23.77	23.83		
5	QPSK	1	12	23.60	23.68	23.64	23.55		
5	QPSK	1	24	23.65	23.61	23.52	23.49	23.5	1
5	QPSK	12	0	22.54	22.86	22.86	22.68		
5	QPSK	12	7	22.82	22.85	22.66	22.67		
5	QPSK	12	13	22.65	22.85	22.74	22.73		
5	QPSK	25	0	22.63	22.82	22.57	22.44	23.5	1
5	16QAM	1	0	22.56	22.82	22.54	22.70		
5	16QAM	1	12	22.52	22.66	22.69	22.54		
5	16QAM	1	24	22.64	22.69	22.61	22.62	22.5	2
5	16QAM	12	0	21.72	21.91	21.78	21.61		
5	16QAM	12	7	21.84	21.86	21.76	21.55		
5	16QAM	12	13	21.58	21.77	21.63	21.62		
5	16QAM	25	0	21.63	21.69	21.71	21.65	22.5	2
5	64QAM	1	0	21.63	21.73	21.48	21.62		
5	64QAM	1	12	21.66	21.81	21.52	21.74		
5	64QAM	1	24	21.55	21.67	21.75	21.74	21.5	3
5	64QAM	12	0	20.60	20.90	20.66	20.66		
5	64QAM	12	7	20.92	20.92	20.69	20.53		
5	64QAM	12	13	20.68	20.82	20.58	20.70		
5	64QAM	25	0	20.51	20.83	20.59	20.50		

Reduced Power Mode for DSI 1
Ant0

LTE Band 38								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150	18.2	0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	17.36	17.61	17.49		
20	QPSK	1	49	17.38	17.58	17.51	18.2	0
20	QPSK	1	99	17.34	17.55	17.55		
20	QPSK	50	0	17.43	17.59	17.51		
20	QPSK	50	24	17.36	17.55	17.56	18.2	0
20	QPSK	50	50	17.37	17.56	17.52		
20	QPSK	100	0	17.39	17.59	17.54		
20	16QAM	1	0	17.40	17.59	17.49	18.2	0
20	16QAM	1	49	17.37	17.53	17.54		
20	16QAM	1	99	17.38	17.58	17.49		
20	16QAM	50	0	17.41	17.53	17.56	18.2	0
20	16QAM	50	24	17.41	17.51	17.52		
20	16QAM	50	50	17.30	17.56	17.55		
20	16QAM	100	0	17.31	17.55	17.44	18.2	0
20	64QAM	1	0	17.33	17.55	17.50		
20	64QAM	1	49	17.35	17.59	17.54		
20	64QAM	1	99	17.37	17.57	17.55	18.2	0
20	64QAM	50	0	17.32	17.55	17.53		
20	64QAM	50	24	17.31	17.60	17.50		
20	64QAM	50	50	17.37	17.54	17.52	18.2	0
20	64QAM	100	0	17.35	17.57	17.55		
Channel				37825	38000	38175	18.2	0
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	17.33	17.64	17.51		
15	QPSK	1	37	17.37	17.61	17.53	18.2	0
15	QPSK	1	74	17.32	17.54	17.54		
15	QPSK	36	0	17.40	17.59	17.47		
15	QPSK	36	20	17.35	17.56	17.60	18.2	0
15	QPSK	36	39	17.38	17.60	17.57		
15	QPSK	75	0	17.34	17.64	17.51		
15	16QAM	1	0	17.35	17.59	17.53	18.2	0
15	16QAM	1	37	17.34	17.59	17.58		
15	16QAM	1	74	17.39	17.56	17.46		
15	16QAM	36	0	17.38	17.60	17.53	18.2	0
15	16QAM	36	20	17.36	17.64	17.54		
15	16QAM	36	39	17.28	17.67	17.50		
15	16QAM	75	0	17.28	17.53	17.44	18.2	0
15	64QAM	1	0	17.36	17.66	17.54		
15	64QAM	1	37	17.40	17.59	17.57		
15	64QAM	1	74	17.40	17.72	17.59	18.2	0
15	64QAM	36	0	17.34	17.56	17.56		
15	64QAM	36	20	17.27	17.63	17.52		
15	64QAM	36	39	17.39	17.67	17.52	18.2	0
15	64QAM	75	0	17.36	17.64	17.57		
Channel				37800	38000	38200	18.2	0
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	17.36	17.62	17.50		



10	QPSK	1	25	17.35	17.57	17.47	18.2	0
10	QPSK	1	49	17.30	17.60	17.57		
10	QPSK	25	0	17.47	17.54	17.55		
10	QPSK	25	12	17.37	17.58	17.57		
10	QPSK	25	25	17.41	17.51	17.57		
10	QPSK	50	0	17.38	17.61	17.52	18.2	0
10	16QAM	1	0	17.36	17.63	17.53		
10	16QAM	1	25	17.38	17.60	17.52		
10	16QAM	1	49	17.36	17.57	17.54	18.2	0
10	16QAM	25	0	17.39	17.60	17.60		
10	16QAM	25	12	17.38	17.61	17.53		
10	16QAM	25	25	17.34	17.65	17.60		
10	16QAM	50	0	17.26	17.60	17.44	18.2	0
10	64QAM	1	0	17.36	17.65	17.52		
10	64QAM	1	25	17.36	17.59	17.55		
10	64QAM	1	49	17.37	17.66	17.58		
10	64QAM	25	0	17.27	17.51	17.53		
10	64QAM	25	12	17.31	17.64	17.55	18.2	0
10	64QAM	25	25	17.41	17.62	17.54		
10	64QAM	50	0	17.35	17.64	17.55		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	17.41	17.64	17.53	18.2	0
5	QPSK	1	12	17.33	17.61	17.46		
5	QPSK	1	24	17.31	17.57	17.52		
5	QPSK	12	0	17.43	17.55	17.47	18.2	0
5	QPSK	12	7	17.41	17.54	17.56		
5	QPSK	12	13	17.33	17.59	17.50		
5	QPSK	25	0	17.38	17.61	17.57		
5	16QAM	1	0	17.40	17.67	17.45	18.2	0
5	16QAM	1	12	17.41	17.65	17.54		
5	16QAM	1	24	17.40	17.59	17.48		
5	16QAM	12	0	17.44	17.64	17.52	18.2	0
5	16QAM	12	7	17.44	17.65	17.57		
5	16QAM	12	13	17.34	17.62	17.58		
5	16QAM	25	0	17.34	17.51	17.46		
5	64QAM	1	0	17.31	17.60	17.51	18.2	0
5	64QAM	1	12	17.39	17.55	17.54		
5	64QAM	1	24	17.33	17.69	17.58		
5	64QAM	12	0	17.32	17.59	17.52	18.2	0
5	64QAM	12	7	17.31	17.57	17.55		
5	64QAM	12	13	17.35	17.60	17.52		
5	64QAM	25	0	17.37	17.57	17.53		

Ant2

LTE Band 41										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.75	17.83	17.88	17.70	17.77	18.8	0
20	QPSK	1	49	17.66	17.64	17.61	17.59	17.70		
20	QPSK	1	99	17.56	17.56	17.55	17.54	17.68		
20	QPSK	50	0	17.65	17.56	17.73	17.58	17.66	18.8	0
20	QPSK	50	24	17.72	17.62	17.58	17.61	17.71		
20	QPSK	50	50	17.60	17.59	17.49	17.56	17.68		
20	QPSK	100	0	17.62	17.58	17.70	17.67	17.57	18.8	0
20	16QAM	1	0	17.65	17.61	17.79	17.62	17.67		
20	16QAM	1	49	17.60	17.65	17.77	17.69	17.59		
20	16QAM	1	99	17.57	17.62	17.76	17.60	17.57	18.8	0
20	16QAM	50	0	17.50	17.65	17.63	17.50	17.50		
20	16QAM	50	24	17.58	17.54	17.77	17.49	17.55		
20	16QAM	50	50	17.58	17.57	17.70	17.75	17.57	18.8	0
20	16QAM	100	0	17.53	17.65	17.72	17.54	17.63		
20	64QAM	1	0	17.56	17.62	17.67	17.58	17.51		
20	64QAM	1	49	17.64	17.72	17.64	17.60	17.61	18.8	0
20	64QAM	1	99	17.70	17.66	17.72	17.62	17.73		
20	64QAM	50	0	17.71	17.70	17.74	17.58	17.61		
20	64QAM	50	24	17.73	17.67	17.63	17.65	17.76	18.8	0
20	64QAM	50	50	17.67	17.59	17.67	17.55	17.68		
20	64QAM	100	0	17.58	17.62	17.59	17.62	17.62		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.69	17.67	17.86	17.58	17.70	18.80	0
15	QPSK	1	37	17.56	17.53	17.52	17.49	17.67		
15	QPSK	1	74	17.51	17.47	17.48	17.37	17.62		
15	QPSK	36	0	17.49	17.49	17.56	17.48	17.58	18.8	0
15	QPSK	36	20	17.66	17.55	17.55	17.56	17.55		
15	QPSK	36	39	17.50	17.54	17.39	17.40	17.55		
15	QPSK	75	0	17.52	17.52	17.61	17.64	17.42	18.8	0
15	16QAM	1	0	17.56	17.53	17.72	17.46	17.60		
15	16QAM	1	37	17.55	17.55	17.66	17.63	17.56		
15	16QAM	1	74	17.50	17.51	17.71	17.46	17.44	18.8	0
15	16QAM	36	0	17.39	17.47	17.55	17.44	17.47		
15	16QAM	36	20	17.54	17.48	17.61	17.43	17.44		
15	16QAM	36	39	17.50	17.40	17.61	17.57	17.41	18.8	0
15	16QAM	75	0	17.51	17.53	17.61	17.36	17.52		
15	64QAM	1	0	17.45	17.44	17.52	17.45	17.49		
15	64QAM	1	37	17.49	17.65	17.48	17.47	17.45	18.8	0
15	64QAM	1	74	17.64	17.59	17.68	17.48	17.66		
15	64QAM	36	0	17.55	17.60	17.56	17.55	17.56		
15	64QAM	36	20	17.59	17.56	17.56	17.57	17.68	18.8	0
15	64QAM	36	39	17.56	17.42	17.55	17.45	17.56		
15	64QAM	75	0	17.46	17.48	17.54	17.50	17.55		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.70	17.78	17.79	17.61	17.72	18.80	0



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10	QPSK	1	25	17.59	17.55	17.43	17.46	17.63	18.8	0
10	QPSK	1	49	17.53	17.48	17.50	17.47	17.56		
10	QPSK	25	0	17.55	17.50	17.70	17.53	17.63		
10	QPSK	25	12	17.68	17.53	17.56	17.47	17.68		
10	QPSK	25	25	17.52	17.44	17.40	17.51	17.51		
10	QPSK	50	0	17.55	17.53	17.67	17.56	17.43	18.8	0
10	16QAM	1	0	17.61	17.52	17.75	17.60	17.50		
10	16QAM	1	25	17.57	17.50	17.61	17.55	17.42		
10	16QAM	1	49	17.54	17.53	17.64	17.56	17.53	18.8	0
10	16QAM	25	0	17.33	17.47	17.60	17.38	17.42		
10	16QAM	25	12	17.54	17.46	17.68	17.43	17.44		
10	16QAM	25	25	17.50	17.47	17.58	17.70	17.43		
10	16QAM	50	0	17.36	17.56	17.56	17.43	17.58	18.8	0
10	64QAM	1	0	17.53	17.46	17.64	17.45	17.43		
10	64QAM	1	25	17.53	17.69	17.56	17.51	17.55		
10	64QAM	1	49	17.66	17.57	17.70	17.49	17.56	18.8	0
10	64QAM	25	0	17.63	17.55	17.62	17.47	17.48		
10	64QAM	25	12	17.71	17.52	17.60	17.48	17.61		
10	64QAM	25	25	17.54	17.51	17.65	17.42	17.53		
10	64QAM	50	0	17.43	17.45	17.47	17.57	17.46	Tune-up limit (dBm)	MPR (dB)
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	18.80	0
5	QPSK	1	0	17.60	17.75	17.76	17.61	17.61		
5	QPSK	1	12	17.56	17.59	17.44	17.43	17.62		
5	QPSK	1	24	17.42	17.48	17.43	17.40	17.57	18.8	0
5	QPSK	12	0	17.55	17.48	17.57	17.43	17.62		
5	QPSK	12	7	17.68	17.44	17.47	17.55	17.54		
5	QPSK	12	13	17.47	17.56	17.32	17.40	17.51		
5	QPSK	25	0	17.54	17.53	17.56	17.57	17.50	18.8	0
5	16QAM	1	0	17.49	17.45	17.69	17.55	17.58		
5	16QAM	1	12	17.57	17.60	17.69	17.65	17.43		
5	16QAM	1	24	17.44	17.52	17.69	17.55	17.50	18.8	0
5	16QAM	12	0	17.33	17.50	17.61	17.46	17.32		
5	16QAM	12	7	17.42	17.46	17.61	17.46	17.42		
5	16QAM	12	13	17.48	17.55	17.55	17.71	17.41		
5	16QAM	25	0	17.48	17.49	17.54	17.46	17.47	18.8	0
5	64QAM	1	0	17.50	17.53	17.58	17.48	17.40		
5	64QAM	1	12	17.50	17.63	17.59	17.49	17.51		
5	64QAM	1	24	17.58	17.59	17.65	17.49	17.55	18.8	0
5	64QAM	12	0	17.58	17.58	17.72	17.42	17.56		
5	64QAM	12	7	17.57	17.49	17.47	17.53	17.61		
5	64QAM	12	13	17.58	17.44	17.53	17.52	17.61		
5	64QAM	25	0	17.54	17.56	17.44	17.47	17.58	Tune-up limit (dBm)	MPR (dB)

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LTE Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640	18.6	0
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.77	17.81	17.54	17.49		
20	QPSK	1	49	17.67	17.57	17.55	17.55	18.6	0
20	QPSK	1	99	17.64	17.61	17.61	17.66		
20	QPSK	50	0	17.61	17.80	17.76	17.63		
20	QPSK	50	24	17.68	17.64	17.60	17.66	18.6	0
20	QPSK	50	50	17.66	17.51	17.49	17.62		
20	QPSK	100	0	17.72	17.73	17.60	17.67		
20	16QAM	1	0	17.49	17.73	17.58	17.62	18.6	0
20	16QAM	1	49	17.62	17.64	17.67	17.65		
20	16QAM	1	99	17.70	17.61	17.42	17.58		
20	16QAM	50	0	17.49	17.55	17.70	17.46	18.6	0
20	16QAM	50	24	17.79	17.76	17.65	17.65		
20	16QAM	50	50	17.57	17.71	17.53	17.78		
20	16QAM	100	0	17.70	17.71	17.61	17.66	18.6	0
20	64QAM	1	0	17.76	17.67	17.67	17.70		
20	64QAM	1	49	17.80	17.75	17.47	17.64		
20	64QAM	1	99	17.69	17.67	17.46	17.79	18.6	0
20	64QAM	50	0	17.53	17.70	17.61	17.52		
20	64QAM	50	24	17.61	17.59	17.53	17.63		
20	64QAM	50	50	17.58	17.70	17.54	17.52	18.6	0
20	64QAM	100	0	17.48	17.62	17.52	17.65		
Channel				55315	55820	56160	56665	18.6	0
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	17.72	17.62	17.66	17.55		
15	QPSK	1	37	17.61	17.61	17.54	17.54	18.6	0
15	QPSK	1	74	17.69	17.73	17.62	17.63		
15	QPSK	36	0	17.57	17.73	17.69	17.68	18.6	0
15	QPSK	36	20	17.61	17.67	17.60	17.62		
15	QPSK	36	39	17.62	17.61	17.54	17.54		
15	QPSK	75	0	17.73	17.76	17.57	17.63	18.6	0
15	16QAM	1	0	17.57	17.73	17.54	17.62		
15	16QAM	1	37	17.57	17.72	17.68	17.67		
15	16QAM	1	74	17.58	17.64	17.44	17.62	18.6	0
15	16QAM	36	0	17.58	17.61	17.60	17.52		
15	16QAM	36	20	17.69	17.78	17.66	17.66		
15	16QAM	36	39	17.60	17.70	17.64	17.68	18.6	0
15	16QAM	75	0	17.71	17.73	17.65	17.70		
15	64QAM	1	0	17.68	17.69	17.64	17.60		
15	64QAM	1	37	17.73	17.77	17.58	17.59	18.6	0
15	64QAM	1	74	17.64	17.72	17.54	17.73		
15	64QAM	36	0	17.56	17.76	17.68	17.51		
15	64QAM	36	20	17.64	17.63	17.54	17.62	18.6	0
15	64QAM	36	39	17.53	17.67	17.53	17.51		
15	64QAM	75	0	17.58	17.75	17.57	17.65		
Channel				55290	55815	56165	56690	18.6	0
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	17.75	17.80	17.70	17.64		
10	QPSK	1	25	17.67	17.66	17.62	17.50		



10	QPSK	1	49	17.66	17.72	17.59	17.71		
10	QPSK	25	0	17.61	17.79	17.72	17.63	18.6	0
10	QPSK	25	12	17.66	17.66	17.60	17.53		
10	QPSK	25	25	17.59	17.64	17.50	17.53		
10	QPSK	50	0	17.69	17.68	17.59	17.59		
10	16QAM	1	0	17.61	17.69	17.61	17.67	18.6	0
10	16QAM	1	25	17.61	17.62	17.64	17.68		
10	16QAM	1	49	17.50	17.63	17.52	17.64		
10	16QAM	25	0	17.56	17.65	17.63	17.45	18.6	0
10	16QAM	25	12	17.70	17.70	17.64	17.66		
10	16QAM	25	25	17.58	17.70	17.73	17.62		
10	16QAM	50	0	17.66	17.74	17.63	17.61		
10	64QAM	1	0	17.66	17.71	17.62	17.54	18.6	0
10	64QAM	1	25	17.68	17.73	17.67	17.63		
10	64QAM	1	49	17.59	17.72	17.53	17.68		
10	64QAM	25	0	17.56	17.73	17.57	17.56	18.6	0
10	64QAM	25	12	17.54	17.58	17.59	17.57		
10	64QAM	25	25	17.50	17.62	17.48	17.55		
10	64QAM	50	0	17.65	17.71	17.54	17.63		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	17.71	17.75	17.69	17.61	18.6	0
5	QPSK	1	12	17.60	17.66	17.54	17.50		
5	QPSK	1	24	17.72	17.75	17.70	17.69		
5	QPSK	12	0	17.62	17.76	17.67	17.70	18.6	0
5	QPSK	12	7	17.57	17.59	17.54	17.61		
5	QPSK	12	13	17.60	17.62	17.48	17.47		
5	QPSK	25	0	17.72	17.70	17.56	17.63		
5	16QAM	1	0	17.52	17.74	17.56	17.61	18.6	0
5	16QAM	1	12	17.59	17.74	17.71	17.70		
5	16QAM	1	24	17.47	17.62	17.56	17.56		
5	16QAM	12	0	17.59	17.71	17.63	17.49	18.6	0
5	16QAM	12	7	17.63	17.71	17.69	17.66		
5	16QAM	12	13	17.63	17.70	17.69	17.71		
5	16QAM	25	0	17.66	17.79	17.60	17.68		
5	64QAM	1	0	17.69	17.68	17.61	17.59	18.6	0
5	64QAM	1	12	17.68	17.79	17.63	17.66		
5	64QAM	1	24	17.69	17.74	17.54	17.62		
5	64QAM	12	0	17.54	17.74	17.62	17.51	18.6	0
5	64QAM	12	7	17.64	17.64	17.53	17.56		
5	64QAM	12	13	17.47	17.67	17.51	17.56		
5	64QAM	25	0	17.59	17.70	17.60	17.67		



Reduced Power Mode for DSI 2

Ant0

LTE Band 38								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.26	23.31	23.28	24	0
20	QPSK	1	49	23.13	23.21	23.08		
20	QPSK	1	99	23.08	23.18	23.04		
20	QPSK	50	0	22.15	22.23	22.11	23	1
20	QPSK	50	24	22.12	22.22	22.13		
20	QPSK	50	50	22.07	22.15	22.07		
20	QPSK	100	0	22.01	22.14	22.04	23	1
20	16QAM	1	0	22.22	22.31	22.22		
20	16QAM	1	49	22.10	22.25	22.11		
20	16QAM	1	99	22.05	22.18	22.03	22	2
20	16QAM	50	0	21.20	21.28	21.19		
20	16QAM	50	24	21.16	21.26	21.18		
20	16QAM	50	50	21.03	21.18	21.09	22	2
20	16QAM	100	0	20.94	21.08	20.99		
20	64QAM	1	0	20.83	20.90	20.77		
20	64QAM	1	49	20.75	20.88	20.79	22	2
20	64QAM	1	99	20.64	20.79	20.69		
20	64QAM	50	0	20.21	20.34	20.21		
20	64QAM	50	24	20.19	20.27	20.14	21	3
20	64QAM	50	50	20.04	20.11	19.98		
20	64QAM	100	0	20.08	20.16	20.03		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	23.14	23.21	23.16		
15	QPSK	1	37	23.01	23.11	22.94	24	0
15	QPSK	1	74	22.99	23.08	22.97		
15	QPSK	36	0	22.02	22.15	22.01	23	1
15	QPSK	36	20	21.97	22.09	22.05		
15	QPSK	36	39	21.92	22.03	21.97		
15	QPSK	75	0	21.93	22.05	21.91	23	1
15	16QAM	1	0	22.09	22.20	22.13		
15	16QAM	1	37	21.96	22.10	22.00		
15	16QAM	1	74	21.92	22.08	21.94	22	2
15	16QAM	36	0	21.11	21.17	21.11		
15	16QAM	36	20	21.06	21.15	21.03		
15	16QAM	36	39	20.90	21.06	20.98	22	2
15	16QAM	75	0	20.83	20.96	20.90		
15	64QAM	1	0	20.75	20.76	20.66		
15	64QAM	1	37	20.62	20.78	20.69	22	2
15	64QAM	1	74	20.49	20.70	20.59		
15	64QAM	36	0	20.10	20.26	20.12		
15	64QAM	36	20	20.06	20.18	20.00	21	3
15	64QAM	36	39	19.96	20.00	19.84		
15	64QAM	75	0	19.95	20.08	19.96		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	23.18	23.18	23.14		
10	QPSK	1	25	23.04	23.07	22.96	24	0



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10	QPSK	1	49	22.98	23.06	22.91		
10	QPSK	25	0	22.03	22.14	22.03		
10	QPSK	25	12	22.05	22.14	22.03		
10	QPSK	25	25	21.93	22.05	21.92	23	1
10	QPSK	50	0	21.87	22.01	21.91		
10	16QAM	1	0	22.13	22.19	22.12		
10	16QAM	1	25	21.99	22.13	21.98	23	1
10	16QAM	1	49	21.97	22.06	21.95		
10	16QAM	25	0	21.09	21.14	21.07		
10	16QAM	25	12	21.02	21.18	21.03	22	2
10	16QAM	25	25	20.90	21.09	20.99		
10	16QAM	50	0	20.81	20.95	20.87		
10	64QAM	1	0	20.69	20.83	20.67		
10	64QAM	1	25	20.67	20.74	20.64	22	2
10	64QAM	1	49	20.52	20.71	20.55		
10	64QAM	25	0	20.07	20.26	20.10		
10	64QAM	25	12	20.07	20.17	20.02	21	3
10	64QAM	25	25	19.90	20.01	19.88		
10	64QAM	50	0	19.93	20.04	19.93		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.12	23.17	23.17		
5	QPSK	1	12	23.01	23.08	22.95	24	0
5	QPSK	1	24	22.98	23.10	22.95		
5	QPSK	12	0	22.08	22.15	22.00		
5	QPSK	12	7	22.03	22.13	21.98	23	1
5	QPSK	12	13	21.97	22.03	21.99		
5	QPSK	25	0	21.92	22.00	21.93		
5	16QAM	1	0	22.08	22.19	22.11		
5	16QAM	1	12	21.98	22.16	21.99	23	1
5	16QAM	1	24	21.94	22.07	21.89		
5	16QAM	12	0	21.09	21.20	21.04		
5	16QAM	12	7	21.06	21.12	21.04	22	2
5	16QAM	12	13	20.91	21.08	21.01		
5	16QAM	25	0	20.84	20.97	20.84		
5	64QAM	1	0	20.75	20.76	20.66		
5	64QAM	1	12	20.67	20.77	20.66	22	2
5	64QAM	1	24	20.57	20.70	20.59		
5	64QAM	12	0	20.12	20.21	20.08		
5	64QAM	12	7	20.06	20.15	20.01	21	3
5	64QAM	12	13	19.90	19.97	19.87		
5	64QAM	25	0	20.00	20.03	19.90		

Ant2

LTE Band 41										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.40	23.43	23.49	23.21	23.47	25	0
20	QPSK	1	49	23.24	23.28	23.38	23.29	23.26		
20	QPSK	1	99	23.26	23.20	23.34	23.24	23.21		
20	QPSK	50	0	22.44	22.41	22.54	22.47	22.46	24	1
20	QPSK	50	24	22.39	22.36	22.48	22.33	22.33		
20	QPSK	50	50	22.32	22.33	22.43	22.32	22.30		
20	QPSK	100	0	22.40	22.36	22.50	22.38	22.40	24	1
20	16QAM	1	0	22.45	22.50	22.50	22.26	22.50		
20	16QAM	1	49	22.31	22.33	22.43	22.32	22.27		
20	16QAM	1	99	22.27	22.25	22.39	22.31	22.24	23	2
20	16QAM	50	0	21.44	21.42	21.62	21.55	21.54		
20	16QAM	50	24	21.40	21.39	21.53	21.37	21.41		
20	16QAM	50	50	21.34	21.39	21.50	21.38	21.37	23	2
20	16QAM	100	0	21.44	21.38	21.51	21.43	21.46		
20	64QAM	1	0	21.44	21.53	21.51	21.24	21.51		
20	64QAM	1	49	21.27	21.36	21.41	21.30	21.29	23	2
20	64QAM	1	99	21.24	21.28	21.38	21.29	21.25		
20	64QAM	50	0	20.46	20.44	20.62	20.51	20.54		
20	64QAM	50	24	20.38	20.41	20.51	20.34	20.44	22	3
20	64QAM	50	50	20.33	20.35	20.47	20.38	20.39		
20	64QAM	100	0	20.42	20.37	20.51	20.38	20.45		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.28	23.30	23.35	23.12	23.35	25.00	0
15	QPSK	1	37	23.12	23.14	23.23	23.17	23.17		
15	QPSK	1	74	23.12	23.06	23.23	23.15	23.12		
15	QPSK	36	0	22.34	22.27	22.41	22.33	22.32	24	1
15	QPSK	36	20	22.29	22.21	22.38	22.19	22.19		
15	QPSK	36	39	22.23	22.19	22.35	22.19	22.17		
15	QPSK	75	0	22.33	22.25	22.42	22.29	22.27	24	1
15	16QAM	1	0	22.38	22.36	22.36	22.16	22.42		
15	16QAM	1	37	22.23	22.21	22.31	22.22	22.13		
15	16QAM	1	74	22.12	22.11	22.29	22.22	22.16	23	2
15	16QAM	36	0	21.34	21.34	21.51	21.44	21.42		
15	16QAM	36	20	21.29	21.28	21.42	21.28	21.30		
15	16QAM	36	39	21.23	21.26	21.37	21.25	21.26	23	2
15	16QAM	75	0	21.31	21.30	21.39	21.29	21.33		
15	64QAM	1	0	21.35	21.45	21.43	21.14	21.43		
15	64QAM	1	37	21.19	21.22	21.34	21.17	21.21	23	2
15	64QAM	1	74	21.13	21.13	21.26	21.22	21.18		
15	64QAM	36	0	20.33	20.31	20.50	20.38	20.40		
15	64QAM	36	20	20.24	20.30	20.41	20.20	20.30	22	3
15	64QAM	36	39	20.22	20.23	20.38	20.31	20.29		
15	64QAM	75	0	20.29	20.30	20.44	20.25	20.36		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.31	23.29	23.41	23.08	23.39	25.00	0



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10	QPSK	1	25	23.11	23.16	23.26	23.21	23.13		
10	QPSK	1	49	23.13	23.11	23.19	23.15	23.12		
10	QPSK	25	0	22.34	22.32	22.39	22.33	22.37		
10	QPSK	25	12	22.25	22.25	22.34	22.18	22.23	24	1
10	QPSK	25	25	22.21	22.19	22.36	22.19	22.17		
10	QPSK	50	0	22.32	22.27	22.43	22.26	22.30		
10	16QAM	1	0	22.35	22.38	22.38	22.12	22.40	24	1
10	16QAM	1	25	22.17	22.20	22.30	22.22	22.15		
10	16QAM	1	49	22.16	22.14	22.25	22.24	22.12		
10	16QAM	25	0	21.35	21.31	21.55	21.44	21.45	23	2
10	16QAM	25	12	21.31	21.25	21.41	21.23	21.31		
10	16QAM	25	25	21.27	21.24	21.37	21.26	21.25		
10	16QAM	50	0	21.31	21.26	21.38	21.32	21.38	23	2
10	64QAM	1	0	21.34	21.39	21.38	21.10	21.42		
10	64QAM	1	25	21.20	21.24	21.29	21.18	21.18		
10	64QAM	1	49	21.15	21.20	21.23	21.21	21.10	22	3
10	64QAM	25	0	20.39	20.34	20.49	20.40	20.40		
10	64QAM	25	12	20.29	20.31	20.40	20.21	20.35		
10	64QAM	25	25	20.18	20.28	20.32	20.29	20.28	22	3
10	64QAM	50	0	20.34	20.28	20.42	20.30	20.36		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.28	23.29	23.35	23.10	23.33	25.00	0
5	QPSK	1	12	23.12	23.15	23.30	23.22	23.13		
5	QPSK	1	24	23.17	23.09	23.25	23.14	23.08		
5	QPSK	12	0	22.32	22.28	22.43	22.34	22.38	24	1
5	QPSK	12	7	22.27	22.22	22.41	22.19	22.21		
5	QPSK	12	13	22.23	22.19	22.34	22.20	22.16		
5	QPSK	25	0	22.27	22.26	22.39	22.26	22.30	24	1
5	16QAM	1	0	22.36	22.39	22.35	22.17	22.43		
5	16QAM	1	12	22.16	22.26	22.35	22.20	22.20		
5	16QAM	1	24	22.12	22.12	22.28	22.20	22.13	23	2
5	16QAM	12	0	21.31	21.29	21.51	21.48	21.43		
5	16QAM	12	7	21.26	21.26	21.46	21.22	21.34		
5	16QAM	12	13	21.24	21.26	21.36	21.29	21.29	23	2
5	16QAM	25	0	21.32	21.30	21.42	21.32	21.38		
5	64QAM	1	0	21.32	21.44	21.39	21.15	21.41		
5	64QAM	1	12	21.17	21.26	21.31	21.15	21.20	23	2
5	64QAM	1	24	21.14	21.20	21.27	21.19	21.18		
5	64QAM	12	0	20.32	20.32	20.51	20.41	20.45		
5	64QAM	12	7	20.24	20.26	20.40	20.21	20.32	22	3
5	64QAM	12	13	20.21	20.21	20.38	20.30	20.25		
5	64QAM	25	0	20.33	20.24	20.42	20.27	20.30		

Ant 3

LTE Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640	24.5	0
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	23.70	23.86	23.79	23.83		
20	QPSK	1	49	23.68	23.74	23.64	23.75	23.5	1
20	QPSK	1	99	23.72	23.78	23.69	23.70		
20	QPSK	50	0	22.70	22.96	22.88	22.84		
20	QPSK	50	24	22.83	22.87	22.87	22.81	23.5	1
20	QPSK	50	50	22.75	22.85	22.77	22.81		
20	QPSK	100	0	22.62	22.84	22.64	22.65		
20	16QAM	1	0	22.73	22.82	22.68	22.80	23.5	1
20	16QAM	1	49	22.69	22.85	22.72	22.75		
20	16QAM	1	99	22.68	22.78	22.68	22.81		
20	16QAM	50	0	21.72	21.98	21.90	21.81	22.5	2
20	16QAM	50	24	21.91	21.99	21.79	21.77		
20	16QAM	50	50	21.76	21.93	21.72	21.83		
20	16QAM	100	0	21.66	21.85	21.76	21.75	22.5	2
20	64QAM	1	0	21.72	21.80	21.65	21.77		
20	64QAM	1	49	21.66	21.82	21.70	21.84		
20	64QAM	1	99	21.77	21.67	21.75	21.92	21.5	3
20	64QAM	50	0	20.71	20.98	20.85	20.80		
20	64QAM	50	24	21.00	21.00	20.79	20.66		
20	64QAM	50	50	20.85	20.98	20.74	20.89	21.5	3
20	64QAM	100	0	20.56	20.88	20.73	20.69		
Channel				55315	55820	56160	56665	24.5	0
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	23.67	23.79	23.60	23.80		
15	QPSK	1	37	23.56	23.59	23.62	23.76	23.5	1
15	QPSK	1	74	23.67	23.62	23.51	23.69		
15	QPSK	36	0	22.65	22.75	22.68	22.66		
15	QPSK	36	20	22.62	22.73	22.69	22.70	23.5	1
15	QPSK	36	39	22.73	22.64	22.56	22.81		
15	QPSK	75	0	22.49	22.79	22.57	22.50		
15	16QAM	1	0	22.73	22.75	22.68	22.70	23.5	1
15	16QAM	1	37	22.54	22.68	22.73	22.59		
15	16QAM	1	74	22.56	22.69	22.61	22.79		
15	16QAM	36	0	21.61	21.87	21.75	21.62	22.5	2
15	16QAM	36	20	21.89	21.99	21.68	21.77		
15	16QAM	36	39	21.71	21.92	21.64	21.66		
15	16QAM	75	0	21.61	21.77	21.60	21.62	22.5	2
15	64QAM	1	0	21.66	21.60	21.51	21.69		
15	64QAM	1	37	21.62	21.80	21.48	21.86		
15	64QAM	1	74	21.64	21.63	21.58	21.78	21.5	3
15	64QAM	36	0	20.60	20.94	20.76	20.71		
15	64QAM	36	20	20.90	20.89	20.70	20.58		
15	64QAM	36	39	20.69	20.83	20.62	20.75	21.5	3
15	64QAM	75	0	20.55	20.77	20.66	20.67		
Channel				55290	55815	56165	56690	24.5	0
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	23.56	23.75	23.74	23.81		
10	QPSK	1	25	23.59	23.71	23.56	23.62		



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10	QPSK	1	49	23.61	23.66	23.66	23.49	23.5	1
10	QPSK	25	0	22.57	22.88	22.85	22.78		
10	QPSK	25	12	22.82	22.78	22.87	22.72		
10	QPSK	25	25	22.75	22.82	22.72	22.81		
10	QPSK	50	0	22.45	22.74	22.45	22.60		
10	16QAM	1	0	22.54	22.73	22.54	22.65	23.5	1
10	16QAM	1	25	22.51	22.71	22.55	22.77		
10	16QAM	1	49	22.69	22.61	22.57	22.59		
10	16QAM	25	0	21.72	21.84	21.80	21.74	22.5	2
10	16QAM	25	12	21.71	21.78	21.58	21.75		
10	16QAM	25	25	21.75	21.83	21.59	21.71		
10	16QAM	50	0	21.65	21.76	21.78	21.58		
10	64QAM	1	0	21.51	21.67	21.49	21.57	22.5	2
10	64QAM	1	25	21.54	21.83	21.57	21.79		
10	64QAM	1	49	21.64	21.45	21.68	21.75		
10	64QAM	25	0	20.62	20.76	20.80	20.81	21.5	3
10	64QAM	25	12	20.88	20.96	20.66	20.64		
10	64QAM	25	25	20.67	20.90	20.72	20.86		
10	64QAM	50	0	20.43	20.80	20.70	20.60		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	23.48	23.70	23.77	23.83	24.5	0
5	QPSK	1	12	23.60	23.68	23.64	23.55		
5	QPSK	1	24	23.65	23.61	23.52	23.49		
5	QPSK	12	0	22.54	22.86	22.86	22.68	23.5	1
5	QPSK	12	7	22.82	22.85	22.66	22.67		
5	QPSK	12	13	22.65	22.85	22.74	22.73		
5	QPSK	25	0	22.63	22.82	22.57	22.44		
5	16QAM	1	0	22.56	22.82	22.54	22.70	23.5	1
5	16QAM	1	12	22.52	22.66	22.69	22.54		
5	16QAM	1	24	22.64	22.69	22.61	22.62		
5	16QAM	12	0	21.72	21.91	21.78	21.61	22.5	2
5	16QAM	12	7	21.84	21.86	21.76	21.55		
5	16QAM	12	13	21.58	21.77	21.63	21.62		
5	16QAM	25	0	21.63	21.69	21.71	21.65		
5	64QAM	1	0	21.63	21.73	21.48	21.62	22.5	2
5	64QAM	1	12	21.66	21.81	21.52	21.74		
5	64QAM	1	24	21.55	21.67	21.75	21.74		
5	64QAM	12	0	20.60	20.90	20.66	20.66	21.5	3
5	64QAM	12	7	20.92	20.92	20.69	20.53		
5	64QAM	12	13	20.68	20.82	20.58	20.70		
5	64QAM	25	0	20.51	20.83	20.59	20.50		



Reduced Power Mode for DSI 3

Ant0

LTE Band 38								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	15.07	15.12	15.10	15.6	0
20	QPSK	1	49	15.04	15.10	15.09		
20	QPSK	1	99	15.09	15.10	15.03		
20	QPSK	50	0	15.10	15.18	15.07	15.6	0
20	QPSK	50	24	15.12	15.17	15.03		
20	QPSK	50	50	15.08	15.10	15.14		
20	QPSK	100	0	15.15	15.18	15.08	15.6	0
20	16QAM	1	0	15.08	15.11	15.08		
20	16QAM	1	49	15.11	15.16	15.08		
20	16QAM	1	99	15.03	15.12	15.10	15.6	0
20	16QAM	50	0	15.15	15.21	15.07		
20	16QAM	50	24	15.13	15.13	15.10		
20	16QAM	50	50	15.14	15.13	14.99	15.6	0
20	16QAM	100	0	15.10	15.13	15.12		
20	64QAM	1	0	15.14	15.16	15.02		
20	64QAM	1	49	15.07	15.11	15.06	15.6	0
20	64QAM	1	99	15.15	15.11	15.07		
20	64QAM	50	0	15.09	15.16	15.10		
20	64QAM	50	24	15.08	15.13	15.01	15.6	0
20	64QAM	50	50	15.12	15.12	15.09		
20	64QAM	100	0	15.15	15.13	15.02		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	15.05	15.08	15.13		
15	QPSK	1	37	15.06	15.14	15.11	15.6	0
15	QPSK	1	74	15.13	15.10	15.03		
15	QPSK	36	0	15.05	15.20	15.05	15.6	0
15	QPSK	36	20	15.12	15.21	15.07		
15	QPSK	36	39	15.05	15.06	15.16		
15	QPSK	75	0	15.19	15.23	15.07	15.6	0
15	16QAM	1	0	15.08	15.10	15.10		
15	16QAM	1	37	15.08	15.19	15.11		
15	16QAM	1	74	15.08	15.13	15.06	15.6	0
15	16QAM	36	0	15.13	15.26	15.03		
15	16QAM	36	20	15.10	15.15	15.11		
15	16QAM	36	39	15.10	15.10	14.97	15.6	0
15	16QAM	75	0	15.15	15.14	15.10		
15	64QAM	1	0	15.16	15.20	15.01		
15	64QAM	1	37	15.05	15.07	15.08	15.6	0
15	64QAM	1	74	15.13	15.08	15.07		
15	64QAM	36	0	15.12	15.11	15.11		
15	64QAM	36	20	15.09	15.10	14.96	15.6	0
15	64QAM	36	39	15.08	15.09	15.12		
15	64QAM	75	0	15.14	15.10	15.05		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	15.08	15.14	15.12		
10	QPSK	1	25	15.05	15.13	15.10	15.6	0



10	QPSK	1	49	15.06	15.10	15.04	15.6	0
10	QPSK	25	0	15.14	15.16	15.10		
10	QPSK	25	12	15.11	15.20	14.98		
10	QPSK	25	25	15.11	15.13	15.09		
10	QPSK	50	0	15.18	15.14	15.13	15.6	0
10	16QAM	1	0	15.04	15.07	15.06		
10	16QAM	1	25	15.07	15.18	15.08		
10	16QAM	1	49	15.05	15.10	15.09	15.6	0
10	16QAM	25	0	15.15	15.21	15.07		
10	16QAM	25	12	15.18	15.18	15.08		
10	16QAM	25	25	15.17	15.10	14.96		
10	16QAM	50	0	15.13	15.14	15.13	15.6	0
10	64QAM	1	0	15.18	15.20	15.02		
10	64QAM	1	25	15.04	15.11	15.10		
10	64QAM	1	49	15.19	15.08	15.04		
10	64QAM	25	0	15.09	15.13	15.14	15.6	0
10	64QAM	25	12	15.09	15.08	14.98		
10	64QAM	25	25	15.17	15.12	15.12		
10	64QAM	50	0	15.11	15.13	14.99		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	15.10	15.08	15.07	15.6	0
5	QPSK	1	12	15.06	15.07	15.13		
5	QPSK	1	24	15.11	15.07	15.02		
5	QPSK	12	0	15.12	15.19	15.04	15.6	0
5	QPSK	12	7	15.09	15.16	15.04		
5	QPSK	12	13	15.06	15.15	15.18		
5	QPSK	25	0	15.16	15.21	15.10		
5	16QAM	1	0	15.12	15.10	15.05	15.6	0
5	16QAM	1	12	15.06	15.15	15.10		
5	16QAM	1	24	15.05	15.12	15.15		
5	16QAM	12	0	15.17	15.26	15.09	15.6	0
5	16QAM	12	7	15.18	15.09	15.14		
5	16QAM	12	13	15.16	15.18	14.96		
5	16QAM	25	0	15.14	15.13	15.10		
5	64QAM	1	0	15.12	15.16	15.01	15.6	0
5	64QAM	1	12	15.10	15.12	15.11		
5	64QAM	1	24	15.18	15.15	15.03		
5	64QAM	12	0	15.08	15.19	15.13	15.6	0
5	64QAM	12	7	15.03	15.15	14.99		
5	64QAM	12	13	15.16	15.15	15.12		
5	64QAM	25	0	15.17	15.13	15.00		

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LTE Band 41										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.75	17.83	17.88	17.70	17.77	18.8	0
20	QPSK	1	49	17.66	17.64	17.61	17.59	17.70		
20	QPSK	1	99	17.56	17.56	17.55	17.54	17.68		
20	QPSK	50	0	17.65	17.56	17.73	17.58	17.66	18.8	0
20	QPSK	50	24	17.72	17.62	17.58	17.61	17.71		
20	QPSK	50	50	17.60	17.59	17.49	17.56	17.68		
20	QPSK	100	0	17.62	17.58	17.70	17.67	17.57	18.8	0
20	16QAM	1	0	17.65	17.61	17.79	17.62	17.67		
20	16QAM	1	49	17.60	17.65	17.77	17.69	17.59		
20	16QAM	1	99	17.57	17.62	17.76	17.60	17.57	18.8	0
20	16QAM	50	0	17.50	17.65	17.63	17.50	17.50		
20	16QAM	50	24	17.58	17.54	17.77	17.49	17.55		
20	16QAM	50	50	17.58	17.57	17.70	17.75	17.57	18.8	0
20	16QAM	100	0	17.53	17.65	17.72	17.54	17.63		
20	64QAM	1	0	17.56	17.62	17.67	17.58	17.51		
20	64QAM	1	49	17.64	17.72	17.64	17.60	17.61	18.8	0
20	64QAM	1	99	17.70	17.66	17.72	17.62	17.73		
20	64QAM	50	0	17.71	17.70	17.74	17.58	17.61		
20	64QAM	50	24	17.73	17.67	17.63	17.65	17.76	18.8	0
20	64QAM	50	50	17.67	17.59	17.67	17.55	17.68		
20	64QAM	100	0	17.58	17.62	17.59	17.62	17.62		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.69	17.67	17.86	17.58	17.70	18.80	0
15	QPSK	1	37	17.56	17.53	17.52	17.49	17.67		
15	QPSK	1	74	17.51	17.47	17.48	17.37	17.62		
15	QPSK	36	0	17.49	17.49	17.56	17.48	17.58	18.8	0
15	QPSK	36	20	17.66	17.55	17.55	17.56	17.55		
15	QPSK	36	39	17.50	17.54	17.39	17.40	17.55		
15	QPSK	75	0	17.52	17.52	17.61	17.64	17.42	18.8	0
15	16QAM	1	0	17.56	17.53	17.72	17.46	17.60		
15	16QAM	1	37	17.55	17.55	17.66	17.63	17.56		
15	16QAM	1	74	17.50	17.51	17.71	17.46	17.44	18.8	0
15	16QAM	36	0	17.39	17.47	17.55	17.44	17.47		
15	16QAM	36	20	17.54	17.48	17.61	17.43	17.44		
15	16QAM	36	39	17.50	17.40	17.61	17.57	17.41	18.8	0
15	16QAM	75	0	17.51	17.53	17.61	17.36	17.52		
15	64QAM	1	0	17.45	17.44	17.52	17.45	17.49		
15	64QAM	1	37	17.49	17.65	17.48	17.47	17.45	18.8	0
15	64QAM	1	74	17.64	17.59	17.68	17.48	17.66		
15	64QAM	36	0	17.55	17.60	17.56	17.55	17.56		
15	64QAM	36	20	17.59	17.56	17.56	17.57	17.68	18.8	0
15	64QAM	36	39	17.56	17.42	17.55	17.45	17.56		
15	64QAM	75	0	17.46	17.48	17.54	17.50	17.55		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.70	17.78	17.79	17.61	17.72	18.80	0



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10	QPSK	1	25	17.59	17.55	17.43	17.46	17.63	18.8	0
10	QPSK	1	49	17.53	17.48	17.50	17.47	17.56		
10	QPSK	25	0	17.55	17.50	17.70	17.53	17.63		
10	QPSK	25	12	17.68	17.53	17.56	17.47	17.68		
10	QPSK	25	25	17.52	17.44	17.40	17.51	17.51		
10	QPSK	50	0	17.55	17.53	17.67	17.56	17.43	18.8	0
10	16QAM	1	0	17.61	17.52	17.75	17.60	17.50		
10	16QAM	1	25	17.57	17.50	17.61	17.55	17.42		
10	16QAM	1	49	17.54	17.53	17.64	17.56	17.53	18.8	0
10	16QAM	25	0	17.33	17.47	17.60	17.38	17.42		
10	16QAM	25	12	17.54	17.46	17.68	17.43	17.44		
10	16QAM	25	25	17.50	17.47	17.58	17.70	17.43		
10	16QAM	50	0	17.36	17.56	17.56	17.43	17.58	18.8	0
10	64QAM	1	0	17.53	17.46	17.64	17.45	17.43		
10	64QAM	1	25	17.53	17.69	17.56	17.51	17.55		
10	64QAM	1	49	17.66	17.57	17.70	17.49	17.56	18.8	0
10	64QAM	25	0	17.63	17.55	17.62	17.47	17.48		
10	64QAM	25	12	17.71	17.52	17.60	17.48	17.61		
10	64QAM	25	25	17.54	17.51	17.65	17.42	17.53		
10	64QAM	50	0	17.43	17.45	17.47	17.57	17.46	Tune-up limit (dBm)	MPR (dB)
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	18.80	0
5	QPSK	1	0	17.60	17.75	17.76	17.61	17.61		
5	QPSK	1	12	17.56	17.59	17.44	17.43	17.62		
5	QPSK	1	24	17.42	17.48	17.43	17.40	17.57	18.8	0
5	QPSK	12	0	17.55	17.48	17.57	17.43	17.62		
5	QPSK	12	7	17.68	17.44	17.47	17.55	17.54		
5	QPSK	12	13	17.47	17.56	17.32	17.40	17.51		
5	QPSK	25	0	17.54	17.53	17.56	17.57	17.50	18.8	0
5	16QAM	1	0	17.49	17.45	17.69	17.55	17.58		
5	16QAM	1	12	17.57	17.60	17.69	17.65	17.43		
5	16QAM	1	24	17.44	17.52	17.69	17.55	17.50	18.8	0
5	16QAM	12	0	17.33	17.50	17.61	17.46	17.32		
5	16QAM	12	7	17.42	17.46	17.61	17.46	17.42		
5	16QAM	12	13	17.48	17.55	17.55	17.71	17.41		
5	16QAM	25	0	17.48	17.49	17.54	17.46	17.47	18.8	0
5	64QAM	1	0	17.50	17.53	17.58	17.48	17.40		
5	64QAM	1	12	17.50	17.63	17.59	17.49	17.51		
5	64QAM	1	24	17.58	17.59	17.65	17.49	17.55	18.8	0
5	64QAM	12	0	17.58	17.58	17.72	17.42	17.56		
5	64QAM	12	7	17.57	17.49	17.47	17.53	17.61		
5	64QAM	12	13	17.58	17.44	17.53	17.52	17.61		
5	64QAM	25	0	17.54	17.56	17.44	17.47	17.58		

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LTE Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640	18.6	0
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.77	17.81	17.54	17.49		
20	QPSK	1	49	17.67	17.57	17.55	17.55	18.6	0
20	QPSK	1	99	17.64	17.61	17.61	17.66		
20	QPSK	50	0	17.61	17.80	17.76	17.63		
20	QPSK	50	24	17.68	17.64	17.60	17.66	18.6	0
20	QPSK	50	50	17.66	17.51	17.49	17.62		
20	QPSK	100	0	17.72	17.73	17.60	17.67		
20	16QAM	1	0	17.49	17.73	17.58	17.62	18.6	0
20	16QAM	1	49	17.62	17.64	17.67	17.65		
20	16QAM	1	99	17.70	17.61	17.42	17.58		
20	16QAM	50	0	17.49	17.55	17.70	17.46	18.6	0
20	16QAM	50	24	17.79	17.76	17.65	17.65		
20	16QAM	50	50	17.57	17.71	17.53	17.78		
20	16QAM	100	0	17.70	17.71	17.61	17.66	18.6	0
20	64QAM	1	0	17.76	17.67	17.67	17.70		
20	64QAM	1	49	17.80	17.75	17.47	17.64		
20	64QAM	1	99	17.69	17.67	17.46	17.79	18.6	0
20	64QAM	50	0	17.53	17.70	17.61	17.52		
20	64QAM	50	24	17.61	17.59	17.53	17.63		
20	64QAM	50	50	17.58	17.70	17.54	17.52	18.6	0
20	64QAM	100	0	17.48	17.62	17.52	17.65		
Channel				55315	55820	56160	56665	18.6	0
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	17.72	17.62	17.66	17.55		
15	QPSK	1	37	17.61	17.61	17.54	17.54	18.6	0
15	QPSK	1	74	17.69	17.73	17.62	17.63		
15	QPSK	36	0	17.57	17.73	17.69	17.68	18.6	0
15	QPSK	36	20	17.61	17.67	17.60	17.62		
15	QPSK	36	39	17.62	17.61	17.54	17.54		
15	QPSK	75	0	17.73	17.76	17.57	17.63	18.6	0
15	16QAM	1	0	17.57	17.73	17.54	17.62		
15	16QAM	1	37	17.57	17.72	17.68	17.67		
15	16QAM	1	74	17.58	17.64	17.44	17.62	18.6	0
15	16QAM	36	0	17.58	17.61	17.60	17.52		
15	16QAM	36	20	17.69	17.78	17.66	17.66		
15	16QAM	36	39	17.60	17.70	17.64	17.68	18.6	0
15	16QAM	75	0	17.71	17.73	17.65	17.70		
15	64QAM	1	0	17.68	17.69	17.64	17.60		
15	64QAM	1	37	17.73	17.77	17.58	17.59	18.6	0
15	64QAM	1	74	17.64	17.72	17.54	17.73		
15	64QAM	36	0	17.56	17.76	17.68	17.51		
15	64QAM	36	20	17.64	17.63	17.54	17.62	18.6	0
15	64QAM	36	39	17.53	17.67	17.53	17.51		
15	64QAM	75	0	17.58	17.75	17.57	17.65		
Channel				55290	55815	56165	56690	18.6	0
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	17.75	17.80	17.70	17.64		
10	QPSK	1	25	17.67	17.66	17.62	17.50	18.6	0



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10	QPSK	1	49	17.66	17.72	17.59	17.71		
10	QPSK	25	0	17.61	17.79	17.72	17.63		
10	QPSK	25	12	17.66	17.66	17.60	17.53		
10	QPSK	25	25	17.59	17.64	17.50	17.53	18.6	0
10	QPSK	50	0	17.69	17.68	17.59	17.59		
10	16QAM	1	0	17.61	17.69	17.61	17.67		
10	16QAM	1	25	17.61	17.62	17.64	17.68	18.6	0
10	16QAM	1	49	17.50	17.63	17.52	17.64		
10	16QAM	25	0	17.56	17.65	17.63	17.45		
10	16QAM	25	12	17.70	17.70	17.64	17.66	18.6	0
10	16QAM	25	25	17.58	17.70	17.73	17.62		
10	16QAM	50	0	17.66	17.74	17.63	17.61		
10	64QAM	1	0	17.66	17.71	17.62	17.54		
10	64QAM	1	25	17.68	17.73	17.67	17.63	18.6	0
10	64QAM	1	49	17.59	17.72	17.53	17.68		
10	64QAM	25	0	17.56	17.73	17.57	17.56		
10	64QAM	25	12	17.54	17.58	17.59	17.57	18.6	0
10	64QAM	25	25	17.50	17.62	17.48	17.55		
10	64QAM	50	0	17.65	17.71	17.54	17.63		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	17.71	17.75	17.69	17.61		
5	QPSK	1	12	17.60	17.66	17.54	17.50	18.6	0
5	QPSK	1	24	17.72	17.75	17.70	17.69		
5	QPSK	12	0	17.62	17.76	17.67	17.70		
5	QPSK	12	7	17.57	17.59	17.54	17.61	18.6	0
5	QPSK	12	13	17.60	17.62	17.48	17.47		
5	QPSK	25	0	17.72	17.70	17.56	17.63		
5	16QAM	1	0	17.52	17.74	17.56	17.61		
5	16QAM	1	12	17.59	17.74	17.71	17.70	18.6	0
5	16QAM	1	24	17.47	17.62	17.56	17.56		
5	16QAM	12	0	17.59	17.71	17.63	17.49		
5	16QAM	12	7	17.63	17.71	17.69	17.66	18.6	0
5	16QAM	12	13	17.63	17.70	17.69	17.71		
5	16QAM	25	0	17.66	17.79	17.60	17.68		
5	64QAM	1	0	17.69	17.68	17.61	17.59		
5	64QAM	1	12	17.68	17.79	17.63	17.66	18.6	0
5	64QAM	1	24	17.69	17.74	17.54	17.62		
5	64QAM	12	0	17.54	17.74	17.62	17.51		
5	64QAM	12	7	17.64	17.64	17.53	17.56	18.6	0
5	64QAM	12	13	17.47	17.67	17.51	17.56		
5	64QAM	25	0	17.59	17.70	17.60	17.67		

<LTE Carrier Aggregation>
General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. The gray color table is covered by other combinations and no need to verify power.
4. All permutations exist. No restrictions on Pcell & Scell combinations.

2CC Downlink Carrier Aggregation		3CC Downlink Carrier Aggregation			
Number	Combination	Number	Combination	Number	Combination
1	CA_2C	1	CA_2A-2A-4A	54	CA_5A-48A-66A
2	CA_5B	2	CA_2A-2A-5A	55	CA_5A-7A-66A
3	CA_12B	3	CA_2A-2A-7A	56	CA_66A-66A-66A
4	CA_38C	4	CA_2A-2A-12A	57	CA_7A-7A-13A
5	CA_41C	5	CA_2A-2A-13A	58	CA_7A-7A-66A
6	CA_48B	6	CA_2A-2A-14A	59	CA_66A-66B
7	CA_48C	7	CA_2A-2A-66A	60	CA_66A-66C
8	CA_66B	8	CA_2A-2A-71A	61	CA_2A-5B
9	CA_66C	9	CA_2A-4A-4A	62	CA_2A-12B
10	CA_2A-2A	10	CA_2A-7A-7A	63	CA_2A-48C
11	CA_4A-4A	11	CA_2A-12A-12A	64	CA_2A-7C
12	CA_5A-5A	12	CA_2A-48A-48A	65	CA_2A-66B
13	CA_12A-12A	13	CA_2A-66A-66A	66	CA_2A-66C
14	CA_25A-25A	14	CA_4A-4A-5A	67	CA_2C-12A
15	CA_48A-48A	15	CA_4A-4A-7A	68	CA_2C-5A
16	CA_66A-66A	16	CA_4A-4A-12A	69	CA_2C-66A
17	CA_2A-4A	17	CA_4A-4A-13A	70	CA_4A-5B
18	CA_2A-5A	18	CA_4A-4A-71A	71	CA_4A-7C
19	CA_2A-7A	19	CA_4A-7A-7A	72	CA_4A-12B
20	CA_2A-12A	20	CA_4A-12A-12A	73	CA_4A-48C
21	CA_2A-13A	21	CA_5A-5A-66A	74	CA_5A-7C
22	CA_2A-14A	22	CA_5A-7A-7A	75	CA_48D
23	CA_2A-17A	23	CA_5A-66A-66A	76	CA_66D
24	CA_2A-48A	24	CA_7A-7A-26A	77	CA_5A-12B
25	CA_2A-66A	25	CA_7A-66A-66A	78	CA_5A-66B
26	CA_4A-5A	26	CA_12A-66A-66A	79	CA_5A-66C
27	CA_4A-7A	27	CA_13A-48A-48A	80	CA_5B-66B
28	CA_4A-12A	28	CA_13A-66A-66A	81	CA_5B-66C
29	CA_4A-13A	29	CA_14A-66A-66A	82	CA_7A-12B
30	CA_4A-71A	30	CA_25A-25A-26A	83	CA_7A-12A-66A
31	CA_5A-7A	31	CA_48A-48A-66A	84	CA_13A-48A-66A
32	CA_5A-12A	32	CA_48A-48A-71A	85	CA_25A-25A-25A
33	CA_5A-13A	33	CA_48A-66A-66A	86	CA_2A-5A-48A
34	CA_5A-25A	34	CA_66A-66A-71A	87	CA_2A-5A-7A
35	CA_5A-38A	35	CA_2A-4A-5A	88	CA_7C-13A
36	CA_5A-48A	36	CA_2A-4A-7A	89	CA_7C-66A
37	CA_5A-66A	37	CA_2A-4A-12A	90	CA_12A-66C
38	CA_5B-66A	38	CA_2A-4A-13A	91	CA_12B-66A
39	CA_7A-12A	39	CA_2A-4A-71A	92	CA_13A-48C
40	CA_7A-26A	40	CA_2A-5A-12A	93	CA_13A-66B
41	CA_7A-66A	41	CA_2A-5A-66A	94	CA_13A-66C
42	CA_12A-25A	42	CA_2A-7A-12A	95	CA_48A-48C
43	CA_12A-66A	43	CA_2A-7A-13A	96	CA_25A-41C
44	CA_13A-48A	44	CA_2A-7A-66A	97	CA_48A-66B
45	CA_13A-66A	45	CA_2A-12A-66A	98	CA_48A-66C
46	CA_14A-66A	46	CA_2A-13A-48A	99	CA_48C-66A
47	CA_25A-26A	47	CA_2A-13A-66A	100	CA_48C-71A



48	CA_25A-41A	48	CA_2A-14A-66A	101	CA_66C-71A
49	CA_48A-66A	49	CA_2A-48A-66A	102	CA_5A-48C
50	CA_48A-71A	50	CA_2A-66A-71A		
51	CA_66A-71A	51	CA_4A-5A-12A		
52	CA_4A-48A	52	CA_4A-7A-12A		
53	CA_7A-13A	53	CA_5A-12A-66A		

4CC Downlink Carrier Aggregation			
Number	Combination	Number	Combination
1	CA_2A-2A-4A-4A	48	CA_4A-4A-5B
2	CA_2A-2A-12A-12A	49	CA_4A-4A-12B
3	CA_2A-2A-66A-66A	50	CA_5A-5A-66B
4	CA_2A-66A-66A-66A	51	CA_5A-5A-66C
5	CA_4A-4A-12A-12A	52	CA_5A-66A-66C
6	CA_5A-5A-66A-66A	53	CA_5A-66A-66B
7	CA_48A-48A-66A-66A	54	CA_5B-66A-66A
8	CA_2A-2A-4A-5A	55	CA_7C-66A-66A
9	CA_2A-2A-4A-12A	56	CA_13A-48A-48C
10	CA_2A-2A-5A-12A	57	CA_13A-66A-66B
11	CA_2A-2A-5A-66A	58	CA_13A-66A-66C
12	CA_2A-2A-7A-12A	59	CA_48A-48A-66B
13	CA_2A-2A-7A-66A	60	CA_48A-48A-66C
14	CA_2A-2A-12A-66A	61	CA_48A-48C-66A
15	CA_2A-2A-13A-66A	62	CA_2A-4A-5B
16	CA_2A-2A-14A-66A	63	CA_2A-4A-7C
17	CA_2A-4A-4A-5A	64	CA_2A-4A-12B
18	CA_2A-4A-4A-12A	65	CA_2A-5A-12B
19	CA_2A-4A-7A-7A	66	CA_2A-5A-66B
20	CA_2A-5A-66A-66A	67	CA_2A-5A-66C
21	CA_2A-12A-66A-66A	68	CA_2A-5B-66A
22	CA_2A-13A-66A-66A	69	CA_2A-7A-12B
23	CA_2A-14A-66A-66A	70	CA_2A-12B-66A
24	CA_4A-4A-5A-12A	71	CA_2A-12A-66C
25	CA_14A-66A-66A-66A	72	CA_2A-13A-66B
26	CA_2A-48A-66A-66A	73	CA_2A-13A-66C
27	CA_2A-7A-66A-66A	74	CA_4A-5A-12B
28	CA_2A-7A-7A-13A	75	CA_7A-12B-66A
29	CA_2A-7A-7A-66A	76	CA_13A-48C-66A
30	CA_5A-7A-66A-66A	77	CA_13A-48A-66B
31	CA_7A-7A-66A-66A	78	CA_13A-48A-66C
32	CA_48C-48C	79	CA_2A-13A-48C
33	CA_48A-48D	80	CA_2A-2A-5B
34	CA_2A-48D	81	CA_2A-48C-66A
35	CA_2A-66D	82	CA_2A-5A-48C
36	CA_5A-66D	83	CA_2A-7C-13A
37	CA_13A-48D	84	CA_2A-7C-66A
38	CA_13A-66D	85	CA_2C-66A-66A
39	CA_48C-66B	86	CA_48C-66A-66A
40	CA_48C-66C	87	CA_5A-48C-66A
41	CA_5A-48D	88	CA_5A-7C-66A
42	CA_2A-2A-12B		
43	CA_2A-2A-66B		
44	CA_2A-2A-66C		
45	CA_2A-48A-48C		
46	CA_2A-66A-66B		
47	CA_2A-66A-66C		

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Bands 2/4/7/25/38/41/48/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

4X4 MIMO	Band
	LTE Band 2/4/7/25/38/41/48/66

LTE Carrier Aggregation Conducted Power (Downlink)

- According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- The device supports downlink four carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$



<Two Carrier power verification>

CA List	PCC									SCC					Power	
	LTE	BW	BW	UL	UL		UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1980	1098	4x4MIMO	23.50	23.63
CA_5B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		23.94	24.05
CA_12B	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		23.90	23.99
CA_38C	Band 38	Ant0	20M	2585	37901	QPSK	1	0	4x4MIMO	Band 38	20M	2605	38099	4x4MIMO	23.09	23.31
CA_41C	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	23.31	23.49
CA_48B	Band 48	Ant3	10M	3608	55815	QPSK	1	0	4x4MIMO	Band 48	10M	3617	55914	4x4MIMO	23.77	23.86
CA_48C	Band 48	Ant3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3629	56028	4x4MIMO	23.74	23.86
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154	66879	4x4MIMO	24.00	24.11
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2175	67084	4x4MIMO	24.00	24.11
CA_2A-2A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1988	1175	4x4MIMO	23.46	23.63
CA_4A-4A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2153	2375	4x4MIMO	23.94	24.08
CA_5A-5A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		23.95	24.05
CA_12A-12A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	744.5	5165		23.81	23.99
CA_25A-25A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1892	8457	4x4MIMO	23.72	23.78
CA_48A-48A	Band 48	Ant3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3698	56715	4x4MIMO	23.67	23.86
CA_66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2198	67311	4x4MIMO	23.91	24.11
CA_2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	23.48	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.90	24.08
CA_2A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.49	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	23.90	24.05
CA_2A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.50	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.05	23.25
CA_2A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.46	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	23.90	23.99
CA_2A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		23.44	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	22.92	23.01
CA_2A-14A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		23.44	23.63
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	23.88	23.99
CA_2A-17A	Band 2	Ant0	10M	1880	18900	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		23.56	23.63
	Band 17	Ant0	10M	710	23790	QPSK	1	0		Band 2	10M	1960	900	4x4MIMO	23.88	23.97
CA_2A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.55	23.63
CA_2A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.43	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.03	24.11
CA_4A-5A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.88	24.08
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	23.92	24.05
CA_4A-7A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.91	24.08
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	23.18	23.25
CA_4A-12A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.95	24.08
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	23.80	23.99
CA_4A-13A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		24.02	24.08
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	22.87	23.01
CA_4A-71A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		23.94	24.08
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 4	20M	2133	2175	4x4MIMO	23.89	24.02
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.92	24.05
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.17	23.25
CA_5A-12A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		23.94	24.05
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 5	10M	881.5	2525		23.81	23.99
CA_5A-13A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 13	10M	751	5230		23.92	24.05
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 5	10M	881.5	2525		22.82	23.01
CA_5A-25A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	23.97	24.05



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	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.62	23.78
CA_5A-38A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	23.89	24.05
CA_5A-48A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	23.91	24.05
CA_5A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.96	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		24.03	24.11
CA_7A-12A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.11	23.25
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.89	23.99
CA_7A-26A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		23.08	23.25
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.87	23.00
CA_7A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.14	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.98	24.11
CA_12A-25A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	23.82	23.99
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.58	23.78
CA_12A-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.89	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.95	24.11
CA_13A-48A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	22.93	23.01
CA_13A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.87	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		23.99	24.11
CA_14A-66A	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.91	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		23.93	24.11
CA_25A-26A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		23.72	23.78
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	22.82	23.00
CA_25A-41A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.68	23.78
CA_48A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.06	24.11
CA_48A-71A	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	23.88	24.02
CA_66A-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		24.03	24.11
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.90	24.02
CA_4A-48A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.95	24.08
CA_7A-13A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		23.13	23.25
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.91	23.01



<Three Carrier power verification>

3CA List	PCC									SCC1					SCC2					Power	
	LTE	BW	BW	UL	UL		UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Configuration	Band	(MHz)	Freq. (MHz)	Channel	Configuration	Band	(MHz)	Freq. (MHz)	Channel	Configuration	Tx.Power (dBm)	Tx. Power (dBm)
CA_48D	Band 48	Ant3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.81	23.86
CA_66D	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2343	39948	4x4MIMO	Band 66	20M	2362.8	40146	4x4MIMO	23.93	24.11
CA_48A-48C	Band 48	Ant3	20M	2676	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	23.74	23.86
CA_66A-66B	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	15	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.92	24.11
CA_66A-66C	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.96	24.11
CA_2A-2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.54	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.93	24.08
CA_2A-2A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		23.52	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.90	24.05
CA_2A-2A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.45	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.14	23.25
CA_2A-2A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.53	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.84	23.99
CA_2A-2A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		23.43	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.83	23.01
CA_2A-2A-14A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	740	5790		23.53	23.63
	Band 14	Ant0	10M	710	23790	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.92	23.99
CA_2A-2A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.55	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.94	24.11
CA_2A-2A-71A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 71	20M	683	68786		23.59	23.63
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.89	24.02
CA_2A-4A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	1732.5	20175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.44	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	24.03	24.08
CA_2A-5B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.45	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 2	20M	1960	900	4x4MIMO	23.99	24.05
CA_2A-7A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.54	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.07	23.25
CA_2A-7C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.55	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.14	23.25
CA_2A-12A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	744.5	5165		23.44	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	744.5	5165		Band 2	20M	1960	900	4x4MIMO	23.86	23.99
CA_2A-12B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		23.49	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 2	20M	1960	900	4x4MIMO	23.93	23.99
CA_2A-48A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.56	23.63
CA_2A-48C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.46	23.63
CA_2A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.50	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.94	24.11
CA_2A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.45	23.63
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.98	24.11
CA_2A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.45	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.00	24.11
CA_2C-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 5	10M	881.5	2525		23.61	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	24.01	24.05
CA_2C-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 12	10M	737.5	5095		23.59	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.75	23.99
CA_2C-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.51	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.89	24.11
CA_4A-4A-5A	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		24.03	24.08
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.99	24.05
CA_4A-4A-7A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.94	24.08



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	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.10	23.25
CA_4A-4A-12A	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		23.89	24.08
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.85	23.99
CA_4A-4A-13A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230		23.99	24.08
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.85	23.01
CA_4A-4A-71A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786		23.86	24.08
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.95	24.02
CA_4A-5B	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.99	24.08
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 4	20M	2132.5	2175	4x4MIMO	23.97	24.05
CA_4A-7A-7A	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.90	24.08
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.18	23.25
CA_4A-7C	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.92	24.08
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.15	23.25
CA_4A-12A-12A	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	744.5	5165		23.95	24.08
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	744.5	5165		Band 4	20M	2132.5	2175	4x4MIMO	23.89	23.99
CA_4A-12B	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		23.98	24.08
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 4	20M	2132.5	2175	4x4MIMO	23.90	23.99
CA_4A-48C	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.96	24.08
CA_5A-5A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	23.85	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.99	24.11
CA_5A-7A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	23.95	24.05
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	Band 5	10M	881.5	2525		23.21	23.25
CA_5A-7C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.88	24.05
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525		23.08	23.25
CA_5A-12B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		23.88	24.05
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 5	10M	881.5	2525		23.93	23.99
CA_5A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.88	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		23.92	24.11
CA_5A-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.86	24.05
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		24.01	24.11
CA_5A-66C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.91	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		24.04	24.11
CA_5B-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	23.98	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		24.02	24.11
CA_7A-7A-26A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	Band 26	15M	876.5	8865		23.16	23.25
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	22.88	23.00
CA_7A-12B	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		23.19	23.25
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 7	20M	2655	3100	4x4MIMO	23.79	23.99
CA_7A-66A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.10	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.95	24.11
CA_7C-13A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 13	10M	751	5230		23.12	23.25
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.82	23.01
CA_7C-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.18	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.93	24.11
CA_12A-66A-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.91	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		23.98	24.11
CA_12A-66C	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.90	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 12	10M	737.5	5095		24.01	24.11
CA_12B-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 66	20M	2155	66886	4x4MIMO	23.89	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		24.06	24.11
CA_13A-48A-48A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	22.87	23.01
CA_13A-48C	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.87	23.01
CA_13A-66A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.89	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 13	10M	751	5230		23.95	24.11
CA_13A-66B	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.92	23.01
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 13	10M	751	5230		23.92	24.11



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CA_13A-66C	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.91	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 13	10M	751	5230		24.01	24.11
CA_14A-66A-66A	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.87	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		23.97	24.11
CA_25A-25A-26A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	20M	1985	8590	4x4MIMO	Band 26	5M	876.5	8865		23.68	23.78
	Band 26	Ant0	5M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	Band 25	20M	1985	8590	4x4MIMO	22.83	23.00
CA_25A-41C	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.60	23.78
CA_48A-48A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	24.05	24.11
CA_48A-48A-71A	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.89	24.02
CA_48A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.03	24.11
CA_48A-66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.92	24.11
CA_48A-66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.93	24.11
CA_48C-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.92	24.11
CA_48C-71A	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.98	24.02
CA_66A-66A-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		23.99	24.11
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.86	24.02
CA_66C-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786		23.89	24.11
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.95	24.02
CA_2A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.56	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	23.93	24.08
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.90	24.05
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	24.05	24.15
CA_2A-4A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.51	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.99	24.08
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.18	23.25
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.10	23.22
CA_2A-4A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		23.44	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	24.00	24.08
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.94	23.99
CA_2A-4A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 13	10M	751	5230		23.55	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4x4MIMO	23.92	24.08
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.82	23.01
CA_2A-4A-71A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	683	68786		23.56	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	24.03	24.08
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.92	24.02
CA_2A-5A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 12	10M	737.5	5095		23.53	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	23.98	24.05
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.85	23.99
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	24.05	24.15
CA_2A-5A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.43	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.88	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.93	24.11
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.01	24.15
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.90	24.02
CA_2A-7A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 7	20M	2655	3100	4x4MIMO	23.51	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.10	23.25
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.90	23.99
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.03	23.22
CA_2A-7A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 7	20M	2655	3100	4x4MIMO	23.56	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.18	23.25
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.92	23.01
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.08	23.22
CA_2A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.47	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.08	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.97	24.11
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.15	23.22



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	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.90	24.02
CA_2A-12A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.57	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.84	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		24.03	24.11
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.86	24.02
CA_2A-13A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	23.44	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.83	23.01
CA_2A-13A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	23.55	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.84	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		24.00	24.11
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.92	24.02
CA_2A-14A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	23.45	23.63
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.89	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.98	24.11
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.84	24.02
CA_2A-48A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.43	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.91	24.11
CA_2A-66A-71A	Band 2	Ant2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	683	68786		24.25	24.38
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	23.98	24.11
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.96	24.02
CA_4A-5A-12A	Band 4	Ant0	20M	2133	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 12	10M	737.5	5095		23.94	24.08
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 4	20M	2132.5	2175	4x4MIMO	23.99	24.15
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.81	23.99
CA_4A-7A-12A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	10M	737.5	5095		24.01	24.08
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 4	20M	2132.5	2175	4x4MIMO	23.12	23.25
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.82	23.99
CA_5A-12A-66A	Band 5	Ant2	10M	881.5	2525	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.97	24.15
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	23.80	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 12	10M	737.5	5095		23.93	24.11
CA_7A-12A-66A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.09	23.22
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.84	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	10M	737.5	5095		24.03	24.11
CA_13A-48A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.90	23.01
CA_25A-25A-25A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	24.02	24.11
CA_2A-5A-48A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1992.5	8665	4x4MIMO	Band 25	20M	1940	8140	4x4MIMO	23.70	23.78
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	23.56	23.63
CA_2A-5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.97	24.05
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.58	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.89	24.05
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.15	23.25
CA_5A-48A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.89	24.05
CA_5A-48C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	23.94	24.11
CA_5A-7A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.87	24.05
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.86	24.05
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.09	23.25
CA_66A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		24.00	24.11
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	23.92	24.11
CA_7A-7A-13A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 13	10M	751	5230		23.13	23.25
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.83	23.01
CA_7A-7A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.14	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	24.04	24.11



<Four Carrier power verification>

Configure	PCC									SCC1					SCC2					SCC3					Power	
	LTE	BW	BW	UL	UL		UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_48A-48D	Band 48	Ant3	20M	3560	55340	QPSK	1	0	4x4MIMO	Band 48	20M	3650.4	56244	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	23.72	23.86
CA_48C-48C	Band 48	Ant3	20M	3560	55340	QPSK	1	0	4x4MIMO	Band 48	20M	3579.8	55538	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	23.75	23.86
CA_2A-2A-4A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.55	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.96	24.08
CA_2A-2A-12A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	743.5	5155		23.51	23.63
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.87	23.99
CA_2A-2A-12B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.50	23.63
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.92	23.99
CA_2A-2A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.56	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.99	24.11
CA_2A-2A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.59	23.63
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.90	24.11
CA_2A-2A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.59	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	24.03	24.11
CA_2A-48A-48C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	23.62	23.63
CA_2A-48D	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.60	23.63
CA_2A-66A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	23.57	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.95	24.11
CA_2A-66A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	23.59	23.63
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.99	24.11
CA_2A-66A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	23.55	23.63
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.06	24.11
CA_2A-66D	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	23.59	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.98	24.11
CA_4A-4A-5B	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		24.05	24.08
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.95	24.05
CA_4A-4A-12A-12A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	743.5	5155		24.03	24.08
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.87	23.99
CA_4A-4A-12B	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.96	24.08
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.92	23.99
CA_5A-5A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.96	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.97	24.11
CA_5A-5A-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.95	24.05
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.95	24.11
CA_5A-5A-66C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.97	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		24.01	24.11
CA_5A-66A-66C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	23.97	24.05
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66688	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 5	5M	891.5	2625		24.03	24.11
CA_5A-66A-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	23.90	24.05
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 5	5M	891.5	2625		23.95	24.11
CA_5A-66D	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	23.93	24.05
	Band 66																									



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CA_13A-48A-48C	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3560	55340	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	22.90	23.01
CA_13A-48D	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	22.85	23.01
CA_13A-66A-66B	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	22.97	23.01
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	5M	2145.7	66793	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 13	10M	751	5230		24.02	24.11
CA_13A-66A-66C	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	22.94	23.01
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66688	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 13	10M	751	5230		24.08	24.11
CA_13A-66D	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	22.88	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	Band 13	10M	751	5230		23.93	24.11
CA_48A-48A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.98	24.11
CA_48A-48A-66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.99	24.11
CA_48A-48A-66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	24.02	24.11
CA_48A-48C-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3560	55340	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	23.96	24.11
CA_48C-66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.96	24.11
CA_48C-66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	24.03	24.11
CA_2A-2A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.58	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		24.06	24.08
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	24.01	24.05
CA_2A-2A-4A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		23.60	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		24.01	24.08
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.80	23.99
CA_2A-2A-5A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 12	10M	737.5	5095		23.62	23.63
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		24.03	24.15
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		23.86	23.99
CA_2A-2A-5A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	24.25	24.38
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.93	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		23.97	24.11
CA_2A-2A-7A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	10M	737.5	5095		23.59	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.21	23.25
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.75	23.99
CA_2A-2A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.59	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.19	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.99	24.11
CA_2A-2A-12A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.58	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.83	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.95	24.11
CA_2A-2A-13A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	23.56	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.86	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		24.01	24.11
CA_2A-2A-14A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	23.55	23.63
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.86	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		23.99	24.11
CA_2A-4A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5														



FCC SAR Test Report

Report No. : FA230405

CA_2A-4A-12B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.41	23.63
	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	24.05	24.08
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.88	23.99
CA_2A-5A-12B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.46	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	23.92	24.05
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.87	23.99
CA_2A-5A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.60	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2177.5	67111	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.92	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		24.03	24.11
CA_2A-5A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.60	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.90	24.05
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.93	24.11
CA_2A-5A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.61	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.90	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.99	24.11
CA_2A-5B-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	23.57	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.95	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		24.01	24.11
CA_2A-7A-12B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.51	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	23.12	23.25
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.85	23.99
CA_2A-12A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.58	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.91	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.95	24.11
CA_2A-12A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.59	23.63
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.95	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.98	24.11
CA_2A-12B-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 66	20M	2155	66886	4x4MIMO	23.52	23.63
	Band 12	Ant0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.89	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		24.03	24.11
CA_2A-13A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.56	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.82	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.99	24.11
CA_2A-13A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.57	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.84	23.01
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.98	24.11
CA_2A-13A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.55	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.90	23.01
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.95	24.11
CA_2A-14A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.58	23.63
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.93	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.96	24.11
CA_4A-4A-5A-12A	Band 4	Ant0	20M	1733	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		Band 12	10M	737.5	5095		24.07	24.08
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FCC SAR Test Report

Report No. : FA230405

	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	23.97	24.11
CA_14A-66A-66A-66A	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	23.97	23.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 14	10M	763	5330		24.06	24.11
CA_2A-13A-48C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.60	23.63
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.92	23.01
CA_2A-2A-5B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.60	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.94	24.05
CA_2A-48A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.58	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.95	24.11
CA_2A-48C-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.60	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.98	24.11
CA_2A-5A-48C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.59	23.63
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.91	24.05
CA_2A-7A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.55	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.16	23.25
CA_2A-7A-7A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 13	10M	751	5230		23.51	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4x4MIMO	23.22	23.25
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.89	23.01
CA_2A-7A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.59	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.15	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.97	24.11
CA_2A-7C-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 13	10M	751	5230		23.51	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4x4MIMO	23.19	23.25
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.83	23.01
CA_2A-7C-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.60	23.63
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.20	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	24.01	24.11
CA_2C-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.56	23.63
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.96	24.11
CA_48C-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.99	24.11
CA_5A-48C-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.92	24.05
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	24.01	24.11
CA_5A-48D	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.95	24.05
CA_5A-7A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.90	24.05
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		23.22	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.95	24.11
CA_5A-7C-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.96	24.05
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525		23.12	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.98	24.11
CA_7A-7A-66A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.14	23.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.98	24.11

LTE Carrier Aggregation Conducted Power (Uplink)

2CC Uplink Carrier Aggregation		
Number	Combination	Ant No.
1	5B	ANT0
2	7C	ANT0
3	41C	ANT2
4	48C	ANT3
5	66B	ANT0
6	66C	ANT0

<Intra-band>
General Note:

- The device supports intra-band uplink carrier aggregation for LTE B5/7/41/48/66 with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- The device supports uplink carrier aggregation with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- LTE CA_66B test was covered by CA_66C; therefore, SAR was only assessed for CA_66C.

Default Power Mode & DSI 0 & DSI 2
Ant0

CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	23.79	25.00
20476	20575	QPSK	1	49	1	0	23.92	25.00
20600	20501	QPSK	1	0	1	49	23.73	25.00

Ant2

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.16	25.00
40185	40383	QPSK	1	99	1	0	23.25	25.00
40620	40818	QPSK	1	99	1	0	23.36	25.00
41055	41253	QPSK	1	99	1	0	23.28	25.00
41490	41292	QPSK	1	0	1	99	23.21	25.00

Ant3

CA_48C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	23.75	24.50
55830	56028	QPSK	1	99	1	0	23.81	24.50
56150	56348	QPSK	1	99	1	0	23.74	24.50
56640	56442	QPSK	1	0	1	99	23.66	24.50

Full Power & DSI 0
Ant0

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.96	24.00
21100	21298	QPSK	1	99	1	0	23.11	24.00
21350	21152	QPSK	1	0	1	99	23.05	24.00

CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	23.86	25.00
132322	132415	QPSK	1	74	1	0	23.98	25.00
132597	132504	QPSK	1	0	1	24	23.92	25.00

CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	23.94	25.00
132322	132520	QPSK	1	99	1	0	24.06	25.00
132572	132374	QPSK	1	0	1	99	23.88	25.00

Reduced Power Mode for DSI 1
Ant0

CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	19.62	21.00
20476	20575	QPSK	1	49	1	0	19.72	21.00
20600	20501	QPSK	1	0	1	49	19.68	21.00

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	14.24	15.20
21100	21298	QPSK	1	99	1	0	14.29	15.20
21350	21152	QPSK	1	0	1	99	14.17	15.20

CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.31	19.50
132322	132415	QPSK	1	74	1	0	18.42	19.50
132597	132504	QPSK	1	0	1	24	18.39	19.50

CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	18.42	19.50
132322	132520	QPSK	1	99	1	0	18.54	19.50
132572	132374	QPSK	1	0	1	99	18.35	19.50

Reduced Power Mode for DSI 1&DSI 3
Ant2

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.13	18.80
40185	40383	QPSK	1	99	1	0	16.98	18.80
40620	40818	QPSK	1	99	1	0	17.16	18.80
41055	41253	QPSK	1	99	1	0	17.11	18.80
41490	41292	QPSK	1	0	1	99	16.99	18.80

Ant3

CA_48C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
55340	55538	QPSK	1	99	1	0	17.54	18.60
55830	56028	QPSK	1	99	1	0	17.66	18.60
56150	56348	QPSK	1	99	1	0	17.41	18.60
56640	56442	QPSK	1	0	1	99	17.39	18.60

Reduced Power Mode for DSI 2
Ant0

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.18	22.20
21100	21298	QPSK	1	99	1	0	21.24	22.20
21350	21152	QPSK	1	0	1	99	21.22	22.20

CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	23.38	24.50
132322	132415	QPSK	1	74	1	0	23.50	24.50
132597	132504	QPSK	1	0	1	24	23.43	24.50

CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	23.42	24.50
132322	132520	QPSK	1	99	1	0	23.55	24.50
132572	132374	QPSK	1	0	1	99	23.35	24.50

Reduced Power Mode for DSI 3
Ant0

CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	16.88	18.40
20476	20575	QPSK	1	49	1	0	16.92	18.40
20600	20501	QPSK	1	0	1	49	16.84	18.40

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	11.52	12.60
21100	21298	QPSK	1	99	1	0	11.69	12.60
21350	21152	QPSK	1	0	1	99	11.45	12.60

CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	15.75	16.90
132322	132415	QPSK	1	74	1	0	15.85	16.90
132597	132504	QPSK	1	0	1	24	15.79	16.90

CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	15.82	16.90
132322	132520	QPSK	1	99	1	0	15.97	16.90
132572	132374	QPSK	1	0	1	99	15.80	16.90

5G NR Output Power (Unit: dBm)**General Note:**

1. 5G NR n2 / n5 / n7 / n12 / n25 / n66 / n71 / n38 / n41 / n48 / n77 / n78 is NSA mode.
2. 5G NR n2 / n5 / n7 / n12 / n13 / n14 / n25 / n66 / n71 / n38 / n41 / n48 / n77 / n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not $\frac{1}{2}$ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
5. 5G NR n41 / n77 / n78 supports HPUE, HPUE power and SAR testing performed separately.
6. 5G NR n41 / n77 / n78 HUPE with higher power, 5G NR n78 HUPE SAR can represent power class 3 level SAR.
7. NSA and SA mode should perform SAR separately. For the bands, when channel bandwidth of SA and NSA is same, and the maximum power of NSA mode is same as SA total power level, SA SAR can represent NSA mode SAR. For the bands, when channel bandwidth of SA and NSA is different, choose the largest channel bandwidth with maximum power to perform SAR testing, so the largest channel bandwidth SAR can represent the smallest channel bandwidth SAR.
8. When channel bandwidth of SA and NSA is same, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time. When channel bandwidth of SA and NSA is different, chose the largest channel bandwidth mode among SA and NSA to perform power measurement.
9. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
10. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.

<3GPP 38.101 MPR for EN-DC>
Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

<EN-DC combination and combine Total Power>

EN-DC configuration	LTE TX ANT	NR TX ANT
DC_2A_n5A	ANT2	ANT0
DC_2A_n7A	ANT0	ANT2
DC_2A_n38A	ANT0	ANT2
DC_2A_n41A	ANT0	ANT2
DC_2A_n48A	ANT0	ANT3
DC_2A_n66A	ANT0	ANT2
DC_2A_n71A	ANT2	ANT0
DC_2A_n77A	ANT0	ANT3
DC_2A_n78A	ANT0	ANT3
DC_4A_n38A	ANT0	ANT2
DC_4A_n41A	ANT0	ANT2
DC_5A_n2A	ANT0	ANT2
DC_5A_n7A	ANT0	ANT2
DC_5A_n38A	ANT0	ANT2
DC_5A_n48A	ANT0	ANT3
DC_5A_n66A	ANT0/2	ANT2/0
DC_5A_n77A	ANT0	ANT3
DC_5A_n78A	ANT0	ANT3
DC_7A_n66A	ANT0	ANT2
DC_7A_n71A	ANT2	ANT0
DC_7A_n77A	ANT0	ANT3
DC_12A_n2A	ANT0	ANT2
DC_12A_n5A	ANT0	ANT2
DC_12A_n7A	ANT0	ANT2
DC_12A_n25A	ANT0	ANT2
DC_12A_n38A	ANT0	ANT2
DC_12A_n41A	ANT0	ANT2

DC_12A_n66A	ANT0	ANT2
DC_12A_n78A	ANT0	ANT3
DC_13A_n2A	ANT0	ANT2
DC_13A_n7A	ANT0	ANT2
DC_13A_n48A	ANT0	ANT3
DC_13A_n66A	ANT0	ANT2
DC_13A_n77A	ANT0	ANT3
DC_13A_n78A	ANT0	ANT3
DC_14A_n2A	ANT0	ANT2
DC_14A_n66A	ANT0	ANT2
DC_14A_n77A	ANT0	ANT3
DC_25A_n41A	ANT0	ANT2
DC_26A_n41A	ANT0	ANT2
DC_38A_n78A	ANT0	ANT3
DC_48A_n5A	ANT3	ANT0
DC_48A_n25A	ANT3	ANT0
DC_48C_n25A	ANT3	ANT0
DC_48A_n66A	ANT3	ANT0
DC_66A_n2A	ANT0	ANT2
DC_66A_n5A	ANT2	ANT0
DC_66A_n7A	ANT0	ANT2
DC_66A_n12A	ANT2	ANT0
DC_66A_n25A	ANT0	ANT2
DC_66A_n38A	ANT0	ANT2
DC_66A_n41A	ANT0	ANT2
DC_66A_n48A	ANT0	ANT3
DC_66A_n71A	ANT2	ANT0
DC_66A_n77A	ANT0	ANT3
DC_66A_n78A	ANT0	ANT3
DC_71A_n2A	ANT0	ANT2
DC_71A_n38A	ANT0	ANT2
DC_71A_n41A	ANT0	ANT2
DC_71A_n66A	ANT0	ANT2
DC_71A_n78A	ANT0	ANT3
DC_7A_n2A	ANT0	ANT2
DC_7A_n5A	ANT2	ANT0
DC_48A_n2A	ANT3	ANT2
DC_13A_n5A	ANT0	ANT2
DC_66A_n5A	ANT0	ANT2

Default Power Mode
Ant0

n2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000	25.0	0.0
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	23.55	23.61	23.46		
20	PI/2 BPSK	1	53	23.50	23.64	23.45	24.5	0.5
20	PI/2 BPSK	1	104	23.46	23.62	23.58		
20	PI/2 BPSK	50	0	22.89	23.14	23.18		
20	PI/2 BPSK	50	28	23.55	23.64	23.46	24.5	0.5
20	PI/2 BPSK	50	56	23.10	23.09	22.94		
20	PI/2 BPSK	100	0	23.04	23.21	23.09		
20	QPSK	1	1	23.61	23.66	23.57	25.0	0.0
20	QPSK	1	53	23.50	23.55	23.53		
20	QPSK	1	104	23.35	23.52	23.39		
20	QPSK	50	0	22.54	22.56	22.44	24.0	1.0
20	QPSK	50	28	23.49	23.66	23.55		
20	QPSK	50	56	22.57	22.61	22.52		
20	QPSK	100	0	22.62	22.69	22.58	24.0	1.0
20	16QAM	1	1	22.73	22.81	22.76		
20	64QAM	1	1	21.41	21.42	21.44		
20	256QAM	1	1	19.23	19.24	19.22	20.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.49	23.57	23.42	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.53	23.56	23.43	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.49	23.55	23.53	25.0	0.0

n5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	24.39	24.43	24.27	25.0	0.0
20	PI/2 BPSK	1	53	24.18	24.34	24.28		
20	PI/2 BPSK	1	104	24.12	24.21	24.15		
20	PI/2 BPSK	50	0	23.76	23.84	23.77	24.5	0.5
20	PI/2 BPSK	50	28	24.29	24.29	24.17	25.0	0.0
20	PI/2 BPSK	50	56	23.58	23.71	23.71	24.5	0.5
20	PI/2 BPSK	100	0	23.73	23.83	23.66		
20	QPSK	1	1	24.31	24.45	24.36	25.0	0.0
20	QPSK	1	53	24.27	24.30	24.09		
20	QPSK	1	104	23.98	24.16	23.98		
20	QPSK	50	0	23.36	23.36	23.18	24.0	1.0
20	QPSK	50	28	24.27	24.31	24.30	25.0	0.0
20	QPSK	50	56	23.22	23.22	23.16	24.0	1.0
20	QPSK	100	0	23.24	23.31	23.11		
20	16QAM	1	1	23.47	23.63	23.43	24.0	1.0
20	64QAM	1	1	22.13	22.28	22.21	22.5	2.5
20	256QAM	1	1	19.89	20.11	20.00	20.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	24.24	24.47	24.21	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	24.19	24.36	24.36	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	24.26	24.46	24.20	25.0	0.0

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000	24.0	0.0
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.45	23.45	23.44		
50	PI/2 BPSK	1	135	23.44	23.48	23.33	23.5	0.5
50	PI/2 BPSK	1	268	23.39	23.39	23.21		
50	PI/2 BPSK	135	0	22.86	23.00	22.82		
50	PI/2 BPSK	135	68	23.27	23.48	23.39	23.5	0.5
50	PI/2 BPSK	135	135	22.86	23.04	23.02		
50	PI/2 BPSK	270	0	23.03	23.01	22.89		
50	QPSK	1	1	23.34	23.53	23.37	24.0	0.0
50	QPSK	1	135	23.32	23.44	23.25		
50	QPSK	1	268	23.35	23.45	23.32		
50	QPSK	135	0	22.39	22.54	22.51	23.0	1.0
50	QPSK	135	68	23.32	23.50	23.29		
50	QPSK	135	135	22.48	22.58	22.40		
50	QPSK	270	0	22.50	22.56	22.35	23.0	1.0
50	16QAM	1	1	22.53	22.64	22.66		
50	64QAM	1	1	21.29	21.28	21.28		
50	256QAM	1	1	19.10	19.17	19.07	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.29	23.43	23.36	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	23.13	23.50	23.24	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	23.23	23.43	23.29	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.22	23.49	23.42	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.13	23.55	23.39	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.16	23.47	23.30	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.34	23.36	23.35	24.0	0.0

n12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	22.95	23.04	23.00	24.0	0.0
15	PI/2 BPSK	1	40	22.91	22.94	22.84		
15	PI/2 BPSK	1	77	22.92	23.07	22.95		
15	PI/2 BPSK	36	0	22.51	22.56	22.53	23.5	0.5
15	PI/2 BPSK	36	22	22.92	23.02	22.88	24.0	0.0
15	PI/2 BPSK	36	43	22.48	22.48	22.40	23.5	0.5
15	PI/2 BPSK	75	0	22.39	22.61	22.52		
15	QPSK	1	1	23.04	23.08	22.95	24.0	0.0
15	QPSK	1	40	23.05	23.06	22.95		
15	QPSK	1	77	22.81	22.98	22.97		
15	QPSK	36	0	21.99	22.14	21.94	23.0	1.0
15	QPSK	36	22	22.90	23.03	22.88	24.0	0.0
15	QPSK	36	43	21.91	22.09	22.04	23.0	1.0
15	QPSK	75	0	22.14	22.16	21.94		
15	16QAM	1	1	22.32	22.31	22.10	23.0	1.0
15	64QAM	1	1	20.77	20.79	20.68	21.5	2.5
	256QAM	1	1	18.67	18.80	18.81	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.82	23.07	22.95	24.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.87	22.90	22.94	24.0	0.0

n13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					156400			
Frequency (MHz)					782			
10	PI/2 BPSK	1	1		22.95		24.0	0.0
10	PI/2 BPSK	1	26		22.83			
10	PI/2 BPSK	1	50		22.96			
10	PI/2 BPSK	25	0		22.39		23.5	0.5
10	PI/2 BPSK	25	14		22.95		24.0	0.0
10	PI/2 BPSK	25	27		22.40		23.5	0.5
10	PI/2 BPSK	50	0		22.48			
10	QPSK	1	1		22.98		24.0	0.0
10	QPSK	1	26		22.93			
10	QPSK	1	50		22.89			
10	QPSK	25	0		21.95		23.0	1.0
10	QPSK	25	14		22.95		24.0	0.0
10	QPSK	25	27		21.92		23.0	1.0
10	QPSK	50	0		21.98			
10	16QAM	1	1		22.02		23.0	1.0
10	64QAM	1	1		20.31		21.5	2.5
10	256QAM	1	1		18.35		19.5	4.5
Channel				155900	156400	156900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	13	22.81	22.87	22.74	24.0	0.0

n14								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					158600			
Frequency (MHz)					793			
10	PI/2 BPSK	1	1		22.89		24.0	0.0
10	PI/2 BPSK	1	26		22.90			
10	PI/2 BPSK	1	50		22.85			
10	PI/2 BPSK	25	0		22.46		23.5	0.5
10	PI/2 BPSK	25	14		22.90		24.0	0.0
10	PI/2 BPSK	25	27		22.41		23.5	0.5
10	PI/2 BPSK	50	0		22.46			
10	QPSK	1	1		22.93		24.0	0.0
10	QPSK	1	26		22.86			
10	QPSK	1	50		22.84			
10	QPSK	25	0		21.95		23.0	1.0
10	QPSK	25	14		22.91		24.0	0.0
10	QPSK	25	27		21.90		23.0	1.0
10	QPSK	50	0		21.93			
10	16QAM	1	1		22.00		23.0	1.0
10	64QAM	1	1		20.46		21.5	2.5
10	256QAM	1	1		18.39		19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	13	22.78	22.89	22.82	24.0	0.0

n25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	24.01	24.05	24.12	25.0	0.0
20	PI/2 BPSK	1	53	24.02	24.00	23.94		
20	PI/2 BPSK	1	104	23.80	23.96	23.99		
20	PI/2 BPSK	50	0	23.62	23.66	23.71	24.5	0.5
20	PI/2 BPSK	50	28	23.94	24.04	23.94	25.0	0.0
20	PI/2 BPSK	50	56	23.54	23.67	23.52	24.5	0.5
20	PI/2 BPSK	100	0	23.49	23.70	23.60		
20	QPSK	1	1	23.97	24.22	24.14	25.0	0.0
20	QPSK	1	53	23.97	24.07	23.91		
20	QPSK	1	104	23.80	24.01	23.99		
20	QPSK	50	0	22.96	23.20	22.91	24.0	1.0
20	QPSK	50	28	24.07	24.10	24.07	25.0	0.0
20	QPSK	50	56	23.25	23.23	23.15	24.0	1.0
20	QPSK	100	0	23.06	23.23	23.15		
20	16QAM	1	1	23.19	23.36	23.19	24.0	1.0
20	64QAM	1	1	21.58	21.79	21.69	22.5	2.5
20	256QAM	1	1	19.70	19.81	19.78	20.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	23.85	24.11	24.00	25.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.84	24.18	24.03	25.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	23.90	24.08	24.00	25.0	0.0

n66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	353000	25.0	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	24.40	24.48	24.32		
30	PI/2 BPSK	1	80	24.49	24.51	24.34	24.5	0.5
30	PI/2 BPSK	1	158	24.39	24.49	24.35		
30	PI/2 BPSK	80	0	23.86	23.98	23.89		
30	PI/2 BPSK	80	40	24.43	24.54	24.37	24.5	0.5
30	PI/2 BPSK	80	80	24.02	24.06	24.03		
30	PI/2 BPSK	160	0	24.07	24.11	24.00		
30	QPSK	1	1	24.46	24.60	24.51	25.0	0.0
30	QPSK	1	80	24.46	24.56	24.45		
30	QPSK	1	158	24.45	24.53	24.47		
30	QPSK	80	0	23.50	23.52	23.49	24.0	1.0
30	QPSK	80	40	24.49	24.57	24.45	25.0	0.0
30	QPSK	80	80	23.37	23.53	23.49	24.0	1.0
30	QPSK	160	0	23.53	23.61	23.46		
30	16QAM	1	1	23.57	23.69	23.55	24.0	1.0
30	64QAM	1	1	21.91	21.95	21.87	22.5	2.5
30	256QAM	1	1	19.99	20.04	19.90	20.5	4.5
Channel				344000	349000	354000	25.0	0.0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	24.42	24.45	24.33	25.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	24.35	24.57	24.46	25.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	24.29	24.51	24.34	25.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	24.42	24.52	24.44	25.0	0.0

n71								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI/2 BPSK	1	1	23.07	23.16	23.01	24.0	0.0
20	PI/2 BPSK	1	53	22.97	23.06	23.00		
20	PI/2 BPSK	1	104	22.99	22.98	22.98		
20	PI/2 BPSK	50	0	22.61	22.66	22.65	23.5	0.5
20	PI/2 BPSK	50	28	22.93	23.09	22.90	24.0	0.0
20	PI/2 BPSK	50	56	22.44	22.53	22.50	23.5	0.5
20	PI/2 BPSK	100	0	22.54	22.64	22.55		
20	QPSK	1	1	23.05	23.19	23.16	24.0	0.0
20	QPSK	1	53	22.84	23.03	23.04		
20	QPSK	1	104	22.79	22.96	22.94		
20	QPSK	50	0	22.16	22.18	22.13	23.0	1.0
20	QPSK	50	28	23.14	23.17	23.16	24.0	0.0
20	QPSK	50	56	22.06	22.05	22.04	23.0	1.0
20	QPSK	100	0	21.99	22.14	22.03		
20	16QAM	1	1	22.22	22.36	22.29	23.0	1.0
20	64QAM	1	1	20.66	20.85	20.70	21.5	2.5
20	256QAM	1	1	18.34	18.49	18.48	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.97	23.12	23.05	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	23.07	23.03	23.01	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	23.03	22.99	23.00	24.0	0.0

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n41								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	19.83	19.87	19.82	21.0	0.0
100	PI/2 BPSK	1	137	19.85	19.90	19.72		
100	PI/2 BPSK	1	271	19.76	19.84	19.69		
100	PI/2 BPSK	135	0	19.68	19.75	19.69	21.0	0.0
100	PI/2 BPSK	135	69	19.65	19.82	19.78	21.0	0.0
100	PI/2 BPSK	135	138	19.79	19.69	19.66	21.0	0.0
100	PI/2 BPSK	270	0	19.72	19.74	19.60		
100	QPSK	1	1	19.85	19.93	19.81	21.0	0.0
100	QPSK	1	137	19.77	19.79	19.68		
100	QPSK	1	271	19.72	19.76	19.60		
100	QPSK	135	0	19.57	19.60	19.63	21.0	0.0
100	QPSK	135	69	19.53	19.75	19.65	21.0	0.0
100	QPSK	135	138	19.69	19.64	19.57	21.0	0.0
100	QPSK	270	0	19.54	19.66	19.44		
100	16QAM	1	1	19.79	19.91	19.89	21.0	0.0
100	64QAM	1	1	19.74	19.89	19.85	21.0	0.0
100	256QAM	1	1	19.73	19.80	19.76	21.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.81	19.87	19.63	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.83	19.86	19.75	21.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.79	19.90	19.72	21.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.80	19.79	19.74	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.76	19.83	19.67	21.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.81	19.82	19.66	21.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.71	19.91	19.75	21.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.74	19.87	19.73	21.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	21.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.88	19.95	19.92		
100	PI/2 BPSK	1	137	20.00	20.10	19.94	21.0	0.0
100	PI/2 BPSK	1	271	20.31	20.37	20.25		
100	PI/2 BPSK	135	0	20.02	20.17	20.08		
100	PI/2 BPSK	135	69	20.14	20.21	20.12	21.0	0.0
100	PI/2 BPSK	135	138	20.21	20.29	20.17	21.0	0.0
100	PI/2 BPSK	270	0	20.07	20.24	20.15		
100	QPSK	1	1	20.42	20.46	20.34		
100	QPSK	1	137	20.14	20.20	20.17	21.0	0.0
100	QPSK	1	271	20.14	20.17	20.10		
100	QPSK	135	0	20.05	20.12	20.00		
100	QPSK	135	69	20.21	20.28	20.17	21.0	0.0
100	QPSK	135	138	20.05	20.19	20.17	21.0	0.0
100	QPSK	270	0	20.08	20.23	20.21		
100	16QAM	1	1	19.86	20.02	19.89		
100	64QAM	1	1	20.09	20.15	20.10	21.0	0.0
100	256QAM	1	1	19.21	19.32	19.24	20.0	1.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.93	20.33	19.89	21.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.92	20.31	19.95	21.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.94	20.29	19.88	21.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.93	20.34	19.88	21.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.99	20.39	19.84	21.0	0.0

Part27Q n77								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.77		21.0	0.0
100	PI/2 BPSK	1	137		20.18			
100	PI/2 BPSK	1	271		20.15			
100	PI/2 BPSK	135	0		19.95		21.0	0.0
100	PI/2 BPSK	135	69		20.06		21.0	0.0
100	PI/2 BPSK	135	138		20.17		21.0	0.0
100	PI/2 BPSK	270	0		20.20			
100	QPSK	1	1		20.21		21.0	0.0
100	QPSK	1	137		19.97			
100	QPSK	1	271		20.16			
100	QPSK	135	0		19.94		21.0	0.0
100	QPSK	135	69		20.20		21.0	0.0
100	QPSK	135	138		20.06		21.0	0.0
100	QPSK	270	0		20.18			
100	16QAM	1	1		20.02		21.0	0.0
100	64QAM	1	1		20.13		21.0	0.0
100	256QAM	1	1		19.56		20.5	0.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.91	20.03	19.96	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.98	20.01	19.90	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	20.09	20.06	19.92	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	20.09	20.10	19.89	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.00	19.91	19.94	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		20.14		21.0	0.0
100	PI/2 BPSK	1	137		20.02			
100	PI/2 BPSK	1	271		19.85			
100	PI/2 BPSK	135	0		20.13		21.0	0.0
100	PI/2 BPSK	135	69		20.08		21.0	0.0
100	PI/2 BPSK	135	138		19.96		21.0	0.0
100	PI/2 BPSK	270	0		20.13			
100	QPSK	1	1		20.24		21.0	0.0
100	QPSK	1	137		20.08			
100	QPSK	1	271		19.87			
100	QPSK	135	0		20.18		21.0	0.0
100	QPSK	135	69		20.05		21.0	0.0
100	QPSK	135	138		19.93		21.0	0.0
100	QPSK	270	0		20.09			
100	16QAM	1	1		20.17		21.0	0.0
100	64QAM	1	1		20.14		21.0	0.0
100	256QAM	1	1		19.59		20.0	1.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	20.09	20.13	20.10	21.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	20.09	20.21	20.19	21.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	20.14	20.08	20.17	21.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	20.13	20.14	20.21	21.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	20.14	20.22	20.18	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	20.18	20.16	20.07	21.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	20.20	20.20	20.14	21.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	20.17	20.18	20.15	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334		21.0	0.0
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.97		21.0	0.0
100	PI/2 BPSK	1	137		20.05			
100	PI/2 BPSK	1	271		20.09			
100	PI/2 BPSK	135	0		20.01		21.0	0.0
100	PI/2 BPSK	135	69		19.89		21.0	0.0
100	PI/2 BPSK	135	138		19.87		21.0	0.0
100	PI/2 BPSK	270	0		19.71			
100	QPSK	1	1		20.16		21.0	0.0
100	QPSK	1	137		19.97			
100	QPSK	1	271		20.08			
100	QPSK	135	0		20.13		21.0	0.0
100	QPSK	135	69		20.07		21.0	0.0
100	QPSK	135	138		19.83		21.0	0.0
100	QPSK	270	0		19.95			
100	16QAM	1	1		20.06		21.0	0.0
100	64QAM	1	1		20.09		21.0	0.0
100	256QAM	1	1		19.41		20.5	0.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	20.00	19.97	20.03	21.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	19.99	20.03	19.94	21.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.95	20.10	19.88	21.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.92	20.08	19.97	21.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.90	19.96	19.97	21.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.96	19.98	19.90	21.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.90	20.01	19.88	21.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	20.01	20.05	19.90	21.0	0.0

Ant2

n2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	23.48	23.64	23.55	25.0	0.0
20	PI/2 BPSK	1	53	23.42	23.67	23.48		
20	PI/2 BPSK	1	104	23.45	23.57	23.49		
20	PI/2 BPSK	50	0	22.98	23.20	22.96	24.5	0.5
20	PI/2 BPSK	50	28	23.56	23.66	23.53	25.0	0.0
20	PI/2 BPSK	50	56	22.95	23.07	23.05	24.5	0.5
20	PI/2 BPSK	100	0	23.09	23.14	23.13		
20	QPSK	1	1	23.48	23.76	23.59	25.0	0.0
20	QPSK	1	53	23.53	23.53	23.42		
20	QPSK	1	104	23.40	23.56	23.42		
20	QPSK	50	0	22.40	22.60	22.56	24.0	1.0
20	QPSK	50	28	23.59	23.62	23.47	25.0	0.0
20	QPSK	50	56	22.34	22.55	22.59	24.0	1.0
20	QPSK	100	0	22.57	22.64	22.62		
20	16QAM	1	1	22.30	22.35	22.32	24.0	1.0
20	64QAM	1	1	21.23	21.42	21.25	22.5	2.5
20	256QAM	1	1	19.28	19.42	19.36	20.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.50	23.63	23.55	25.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.50	23.65	23.51	25.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.55	23.61	23.56	25.0	0.0

n5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	25.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.90	23.88	23.81		
20	PI/2 BPSK	1	53	23.87	23.85	23.79	24.5	0.5
20	PI/2 BPSK	1	104	23.84	23.82	23.76		
20	PI/2 BPSK	50	0	23.35	23.42	23.43		
20	PI/2 BPSK	50	28	23.81	23.86	23.77	24.5	0.5
20	PI/2 BPSK	50	56	23.30	23.35	23.34		
20	PI/2 BPSK	100	0	23.29	23.39	23.33		
20	QPSK	1	1	23.92	23.93	23.82	25.0	0.0
20	QPSK	1	53	23.81	23.83	23.81		
20	QPSK	1	104	23.77	23.85	23.88		
20	QPSK	50	0	22.79	22.95	22.77	24.0	1.0
20	QPSK	50	28	23.78	23.84	23.75		
20	QPSK	50	56	22.85	22.89	22.83		
20	QPSK	100	0	22.77	22.83	22.80	24.0	1.0
20	16QAM	1	1	22.85	22.90	22.80		
20	64QAM	1	1	21.35	21.33	21.28		
20	256QAM	1	1	19.31	19.38	19.35	20.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.78	23.84	23.79	25.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.80	23.86	23.80	25.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.82	23.90	23.77	25.0	0.0

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.71	22.75	22.65	24.0	0.0
50	PI/2 BPSK	1	135	22.88	22.92	22.84		
50	PI/2 BPSK	1	268	22.55	22.75	22.62		
50	PI/2 BPSK	135	0	22.39	22.50	22.36	23.5	0.5
50	PI/2 BPSK	135	68	22.69	22.86	22.77	24.0	0.0
50	PI/2 BPSK	135	135	22.32	22.36	22.34	23.5	0.5
50	PI/2 BPSK	270	0	22.23	22.42	22.34		
50	QPSK	1	1	22.82	23.01	22.94	24.0	0.0
50	QPSK	1	135	22.75	22.94	22.90		
50	QPSK	1	268	22.82	22.86	22.66		
50	QPSK	135	0	21.80	21.98	21.81	23.0	1.0
50	QPSK	135	68	22.80	22.96	22.90	24.0	0.0
50	QPSK	135	135	21.87	21.96	21.78	23.0	1.0
50	QPSK	270	0	22.00	22.01	21.86		
50	16QAM	1	1	22.01	22.17	22.06	23.0	1.0
50	64QAM	1	1	20.31	20.51	20.34	21.5	2.5
50	256QAM	1	1	18.54	18.69	18.68	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	22.67	22.82	22.78	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	22.66	22.85	22.76	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	22.66	22.93	22.91	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.68	23.00	22.74	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.66	22.98	22.83	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.77	22.87	22.85	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.78	22.81	22.96	24.0	0.0

n25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	23.89	24.10	24.04	25.0	0.0
20	PI/2 BPSK	1	53	23.98	24.19	23.99		
20	PI/2 BPSK	1	104	24.04	24.17	24.02		
20	PI/2 BPSK	50	0	23.42	23.68	23.43	24.5	0.5
20	PI/2 BPSK	50	28	24.04	24.07	23.95	25.0	0.0
20	PI/2 BPSK	50	56	23.45	23.60	23.41	24.5	0.5
20	PI/2 BPSK	100	0	23.43	23.60	23.37		
20	QPSK	1	1	24.14	24.27	24.19	25.0	0.0
20	QPSK	1	53	24.11	24.24	24.16		
20	QPSK	1	104	23.97	24.19	24.07		
20	QPSK	50	0	23.09	23.31	23.15	24.0	1.0
20	QPSK	50	28	24.05	24.21	24.20	25.0	0.0
20	QPSK	50	56	23.13	23.28	23.11	24.0	1.0
20	QPSK	100	0	23.08	23.20	23.15		
20	16QAM	1	1	23.32	23.51	23.48	24.0	1.0
20	64QAM	1	1	21.67	21.79	21.76	22.5	2.5
20	256QAM	1	1	19.94	19.92	19.83	20.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	24.01	24.20	24.10	25.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	24.06	24.13	24.06	25.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	24.11	24.15	24.08	25.0	0.0

n66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	353000	25.0	0.0
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.66	23.73	23.55		
30	PI/2 BPSK	1	80	23.50	23.67	23.54	24.5	0.5
30	PI/2 BPSK	1	158	23.56	23.61	23.45		
30	PI/2 BPSK	80	0	22.55	22.66	22.53		
30	PI/2 BPSK	80	40	23.56	23.64	23.61	24.5	0.5
30	PI/2 BPSK	80	80	22.74	22.78	22.71		
30	PI/2 BPSK	160	0	22.62	22.61	22.58		
30	QPSK	1	1	23.80	23.84	23.78	25.0	0.0
30	QPSK	1	80	23.67	23.81	23.79		
30	QPSK	1	158	23.65	23.76	23.75		
30	QPSK	80	0	22.52	22.70	22.70	24.0	1.0
30	QPSK	80	40	23.70	23.82	23.81		
30	QPSK	80	80	22.64	22.82	22.74		
30	QPSK	160	0	22.78	22.81	22.64	24.0	1.0
30	16QAM	1	1	22.39	22.60	22.39		
30	64QAM	1	1	21.11	21.31	21.30		
30	256QAM	1	1	19.38	19.48	19.30	20.5	4.5
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.80	23.85	23.69	25.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.81	23.64	23.61	25.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.64	23.85	23.60	25.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.68	23.81	23.74	25.0	0.0

n38								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.96	22.98	22.82	24.0	0.0
40	PI/2 BPSK	1	53	22.78	22.86	22.82		
40	PI/2 BPSK	1	104	22.71	22.93	22.93		
40	PI/2 BPSK	50	0	22.46	22.55	22.55	23.5	0.5
40	PI/2 BPSK	50	28	22.89	23.02	23.02	24.0	0.0
40	PI/2 BPSK	50	56	22.54	22.63	22.58	23.5	0.5
40	PI/2 BPSK	100	0	22.66	22.65	22.57		
40	QPSK	1	1	22.86	23.06	22.97	24.0	0.0
40	QPSK	1	53	22.79	22.95	22.77		
40	QPSK	1	104	22.88	23.01	22.99		
40	QPSK	50	0	22.04	22.07	21.85	23.0	1.0
40	QPSK	50	28	22.80	23.00	22.82	24.0	0.0
40	QPSK	50	56	21.93	22.11	22.11	23.0	1.0
40	QPSK	100	0	22.07	22.15	21.94		
40	16QAM	1	1	22.07	22.27	22.14	23.0	1.0
40	64QAM	1	1	20.47	20.65	20.53	21.5	2.5
40	256QAM	1	1	18.61	18.69	18.60	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.74	23.01	22.84	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.75	22.95	22.91	24.0	0.0



n41								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.07	23.07	22.94		
100	PI/2 BPSK	1	137	22.92	22.98	22.80	23.5	0.5
100	PI/2 BPSK	1	271	23.00	23.01	22.79		
100	PI/2 BPSK	135	0	22.48	22.55	22.53		
100	PI/2 BPSK	135	69	23.03	23.08	23.06	23.5	0.5
100	PI/2 BPSK	135	138	22.75	22.77	22.63		
100	PI/2 BPSK	270	0	22.79	22.86	22.77		
100	QPSK	1	1	23.07	23.11	22.99	24.0	0.0
100	QPSK	1	137	22.82	22.97	22.93		
100	QPSK	1	271	22.78	23.00	22.83		
100	QPSK	135	0	22.23	22.26	22.21	23.0	1.0
100	QPSK	135	69	22.98	23.04	22.97		
100	QPSK	135	138	21.94	22.12	22.13		
100	QPSK	270	0	22.03	22.18	22.03	23.0	1.0
100	16QAM	1	1	22.21	22.31	22.24		
100	64QAM	1	1	20.57	20.72	20.72		
100	256QAM	1	1	18.50	18.69	18.60	19.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.89	23.07	22.96	24.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.97	22.91	23.00	24.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.89	22.96	23.01	24.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.95	22.91	22.92	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.05	23.08	22.96	24.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	23.02	22.90	24.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.06	23.04	22.83	24.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.87	23.05	22.86	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	27.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	25.98	26.11	26.06		
100	PI/2 BPSK	1	137	25.84	25.98	25.86	26.5	0.5
100	PI/2 BPSK	1	271	25.85	25.95	25.80		
100	PI/2 BPSK	135	0	25.61	25.79	25.71		
100	PI/2 BPSK	135	69	26.01	26.14	25.99	26.5	0.5
100	PI/2 BPSK	135	138	25.56	25.57	25.44		
100	PI/2 BPSK	270	0	25.44	25.63	25.53		
100	QPSK	1	1	25.98	26.19	26.18	27.0	0.0
100	QPSK	1	137	25.93	26.01	26.02		
100	QPSK	1	271	25.91	25.93	25.81		
100	QPSK	135	0	25.00	25.17	24.97	26.0	1.0
100	QPSK	135	69	25.94	25.98	25.97	27.0	0.0
100	QPSK	135	138	24.99	25.05	24.84	26.0	1.0
100	QPSK	270	0	25.06	25.13	25.11		
100	16QAM	1	1	25.25	25.32	25.20	26.0	1.0
100	64QAM	1	1	23.82	23.84	23.64	24.5	2.5
100	256QAM	1	1	21.81	21.96	21.95	22.5	4.5
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.76	25.98	26.17	27.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.87	26.06	26.04	27.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	25.93	26.01	26.03	27.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	25.87	26.10	26.11	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.99	26.01	26.13	27.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.99	25.97	26.00	27.0	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.93	26.07	26.06	27.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.93	26.00	26.05	27.0	0.0

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n48								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				638000	641666	645332		
Frequency (MHz)				3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	22.01	22.12	22.06	23.0	0.0
40	PI/2 BPSK	1	53	21.78	21.87	21.74		
40	PI/2 BPSK	1	104	21.68	21.79	21.66		
40	PI/2 BPSK	50	0	21.89	22.01	21.88	23.0	0.0
40	PI/2 BPSK	50	28	21.85	21.92	21.87	23.0	0.0
40	PI/2 BPSK	50	56	21.88	21.94	21.87	23.0	0.0
40	PI/2 BPSK	100	0	21.92	21.98	21.84		
40	QPSK	1	1	22.13	22.26	22.22	23.0	0.0
40	QPSK	1	53	21.90	22.03	21.96		
40	QPSK	1	104	21.83	21.92	21.82		
40	QPSK	50	0	21.84	21.96	21.88	23.0	0.0
40	QPSK	50	28	21.78	21.93	21.78	23.0	0.0
40	QPSK	50	56	21.82	21.89	21.76	23.0	0.0
40	QPSK	100	0	21.91	21.95	21.86		
40	16QAM	1	1	22.04	22.16	22.07	23.0	0.0
40	64QAM	1	1	20.76	20.87	20.82	21.5	1.5
40	256QAM	1	1	18.70	18.85	18.76	19.5	3.5
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	22.03	22.17	22.11	23.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	21.98	22.18	22.11	23.0	0.0

Par270 n77								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.18	22.24	22.22	24.0	0.0
100	PI/2 BPSK	1	137	22.08	22.27	22.09		
100	PI/2 BPSK	1	271	22.24	22.28	22.23		
100	PI/2 BPSK	135	0	22.19	22.19	22.12	24.0	0.0
100	PI/2 BPSK	135	69	22.08	22.25	22.19	24.0	0.0
100	PI/2 BPSK	135	138	22.06	22.23	22.07	24.0	0.0
100	PI/2 BPSK	270	0	22.11	22.23	22.11		
100	QPSK	1	1	22.19	22.39	22.26		
100	QPSK	1	137	22.09	22.20	22.15	24.0	0.0
100	QPSK	1	271	22.03	22.19	22.15		
100	QPSK	135	0	22.04	22.14	22.09		
100	QPSK	135	69	22.08	22.21	22.10	24.0	0.0
100	QPSK	135	138	22.16	22.11	22.15	24.0	0.0
100	QPSK	270	0	22.06	22.19	22.11		
100	16QAM	1	1	22.13	22.20	22.16		
100	64QAM	1	1	21.26	21.37	21.34	23.0	1.0
100	256QAM	1	1	19.28	19.30	19.17	21.0	3.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.05	22.31	22.15	24.0	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.10	22.29	22.21	24.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.08	22.35	22.21	24.0	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.06	22.36	22.21	24.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.15	22.25	22.15	24.0	0.0

Par270 n77 HPUE								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000	27.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	25.34	25.45	25.42		
100	PI/2 BPSK	1	137	25.29	25.41	25.28	27.0	0.0
100	PI/2 BPSK	1	271	25.44	25.52	25.42		
100	PI/2 BPSK	135	0	25.32	25.43	25.32		
100	PI/2 BPSK	135	69	25.32	25.38	25.23	27.0	0.0
100	PI/2 BPSK	135	138	25.26	25.39	25.26		
100	PI/2 BPSK	270	0	25.36	25.43	25.35		
100	QPSK	1	1	25.42	25.56	25.47	27.0	0.0
100	QPSK	1	137	25.32	25.41	25.37		
100	QPSK	1	271	25.25	25.37	25.29		
100	QPSK	135	0	25.23	25.28	25.20	27.0	0.0
100	QPSK	135	69	25.28	25.35	25.22		
100	QPSK	135	138	25.19	25.32	25.27		
100	QPSK	270	0	25.24	25.34	25.27	27.0	0.0
100	16QAM	1	1	25.36	25.43	25.38		
100	64QAM	1	1	24.48	24.61	24.57		
100	256QAM	1	1	22.46	22.49	22.35	27.0	0.0
Channel				649334	656000	662668		
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	25.38	25.48	25.34	27.0	0.0
Channel				648668	656000	663334	27.0	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	25.32	25.51	25.43		
Channel				648000	656000	664000	27.0	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	25.30	25.45	25.39		
Channel				647668	656000	664334	27.0	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	25.30	25.45	25.35		
Channel				647334	656000	664668	27.0	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	25.28	25.52	25.37		