



Appendix D-2. LTE Output Power Measurement

<LTE Conducted Power>

General Note:

1. A Base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, 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.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For 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.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ 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; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band



<LTE Band 2_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.90	23.94	23.85	
20	QPSK	1	49	23.66	23.86	23.62	25
20	QPSK	1	99	23.81	23.81	23.73	
20	QPSK	50	0	22.81	22.82	22.77	
20	QPSK	50	24	22.81	22.81	22.72	24
20	QPSK	50	50	22.78	22.78	22.69	
20	QPSK	100	0	22.83	22.84	22.76	
20	16QAM	1	0	23.19	23.19	22.87	24
20	16QAM	1	49	23.04	23.09	23.10	
20	16QAM	1	99	23.15	23.17	22.95	
20	16QAM	50	0	21.84	21.90	21.74	23
20	16QAM	50	24	21.78	21.87	21.79	
20	16QAM	50	50	21.80	21.84	21.77	
20	16QAM	100	0	21.80	21.90	21.73	23
20	64QAM	1	0	22.13	22.16	21.97	
20	64QAM	1	49	21.88	22.03	22.03	
20	64QAM	1	99	22.12	21.98	22.00	22
20	64QAM	50	0	20.95	21.04	20.86	
20	64QAM	50	24	20.92	20.90	20.90	
20	64QAM	50	50	20.91	20.91	20.82	20
20	64QAM	100	0	20.90	20.94	20.85	
20	256QAM	1	0	19.15	19.17	18.92	
20	256QAM	1	49	18.63	18.65	18.35	20
20	256QAM	1	99	18.79	18.85	18.56	
20	256QAM	50	0	18.91	18.97	18.67	
20	256QAM	50	24	18.82	18.89	18.62	20
20	256QAM	50	50	18.82	18.92	18.65	
20	256QAM	100	0	18.85	18.95	18.62	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.76	23.81	23.76	
15	QPSK	1	37	23.63	23.81	23.50	25
15	QPSK	1	74	23.61	23.65	23.58	
15	QPSK	36	0	22.76	22.80	22.74	24
15	QPSK	36	20	22.77	22.64	22.52	
15	QPSK	36	39	22.63	22.71	22.54	
15	QPSK	75	0	22.78	22.80	22.74	24
15	16QAM	1	0	23.04	23.18	22.73	
15	16QAM	1	37	23.02	22.98	22.90	
15	16QAM	1	74	22.97	23.14	22.85	23
15	16QAM	36	0	21.72	21.85	21.67	
15	16QAM	36	20	21.75	21.83	21.62	
15	16QAM	36	39	21.61	21.79	21.67	23
15	16QAM	75	0	21.66	21.73	21.72	
15	64QAM	1	0	21.99	22.01	21.84	
15	64QAM	1	37	21.76	22.01	22.00	22
15	64QAM	1	74	22.05	21.80	21.87	
15	64QAM	36	0	20.90	20.89	20.66	
15	64QAM	36	20	20.72	20.84	20.89	20
15	64QAM	36	39	20.72	20.91	20.71	
15	64QAM	75	0	20.78	20.89	20.65	
15	256QAM	1	0	19.02	18.97	18.90	20
15	256QAM	1	37	18.49	18.60	18.34	
15	256QAM	1	74	18.65	18.76	18.49	
15	256QAM	36	0	18.83	18.95	18.47	20
15	256QAM	36	20	18.73	18.78	18.45	



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15	256QAM	36	39	18.75	18.83	18.51	
15	256QAM	75	0	18.76	18.94	18.45	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.89	23.85	23.81	25
10	QPSK	1	25	23.62	23.77	23.44	
10	QPSK	1	49	23.63	23.81	23.58	
10	QPSK	25	0	22.80	22.80	22.66	24
10	QPSK	25	12	22.75	22.78	22.72	
10	QPSK	25	25	22.61	22.64	22.51	
10	QPSK	50	0	22.69	22.77	22.74	
10	16QAM	1	0	23.02	23.03	22.68	24
10	16QAM	1	25	22.86	23.08	23.10	
10	16QAM	1	49	22.97	22.97	22.75	23
10	16QAM	25	0	21.64	21.71	21.74	
10	16QAM	25	12	21.61	21.72	21.60	
10	16QAM	25	25	21.65	21.67	21.59	
10	16QAM	50	0	21.69	21.79	21.64	23
10	64QAM	1	0	21.98	22.09	21.79	
10	64QAM	1	25	21.78	21.85	21.90	
10	64QAM	1	49	21.93	21.78	21.83	22
10	64QAM	25	0	20.84	20.87	20.70	
10	64QAM	25	12	20.78	20.74	20.90	
10	64QAM	25	25	20.85	20.74	20.76	
10	64QAM	50	0	20.83	20.83	20.78	20
10	256QAM	1	0	19.04	19.12	18.72	
10	256QAM	1	25	18.48	18.61	18.33	
10	256QAM	1	49	18.76	18.81	18.45	
10	256QAM	25	0	18.73	18.80	18.50	20
10	256QAM	25	12	18.76	18.77	18.52	
10	256QAM	25	25	18.66	18.87	18.63	
10	256QAM	50	0	18.73	18.76	18.47	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.70	23.81	23.76	25
5	QPSK	1	12	23.50	23.78	23.57	
5	QPSK	1	24	23.69	23.61	23.69	
5	QPSK	12	0	22.69	22.76	22.62	24
5	QPSK	12	7	22.73	22.70	22.59	
5	QPSK	12	13	22.62	22.61	22.61	
5	QPSK	25	0	22.65	22.81	22.72	
5	16QAM	1	0	23.11	23.12	22.80	24
5	16QAM	1	12	22.89	22.99	22.90	
5	16QAM	1	24	22.99	23.12	22.76	
5	16QAM	12	0	21.65	21.82	21.68	23
5	16QAM	12	7	21.69	21.74	21.64	
5	16QAM	12	13	21.77	21.77	21.71	
5	16QAM	25	0	21.62	21.79	21.57	
5	64QAM	1	0	22.03	22.08	21.97	23
5	64QAM	1	12	21.79	21.83	21.99	
5	64QAM	1	24	22.00	21.88	21.92	
5	64QAM	12	0	20.81	20.96	20.80	22
5	64QAM	12	7	20.82	20.88	20.78	
5	64QAM	12	13	20.91	20.78	20.69	
5	64QAM	25	0	20.88	20.93	20.76	
5	256QAM	1	0	19.13	19.07	18.86	20
5	256QAM	1	12	18.58	18.63	18.23	
5	256QAM	1	24	18.59	18.83	18.44	
5	256QAM	12	0	18.77	18.78	18.48	20
5	256QAM	12	7	18.73	18.81	18.55	
5	256QAM	12	13	18.77	18.84	18.61	
5	256QAM	25	0	18.69	18.79	18.48	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.75	23.86	23.72	25
3	QPSK	1	8	23.60	23.85	23.62	
3	QPSK	1	14	23.80	23.77	23.53	
3	QPSK	8	0	22.81	22.72	22.65	24
3	QPSK	8	4	22.79	22.77	22.54	
3	QPSK	8	7	22.78	22.72	22.54	
3	QPSK	15	0	22.82	22.65	22.75	24
3	16QAM	1	0	23.10	23.14	22.82	
3	16QAM	1	8	22.98	23.09	23.06	
3	16QAM	1	14	22.96	23.14	22.81	23
3	16QAM	8	0	21.74	21.78	21.55	
3	16QAM	8	4	21.74	21.84	21.78	
3	16QAM	8	7	21.78	21.74	21.72	23
3	16QAM	15	0	21.75	21.74	21.62	
3	64QAM	1	0	21.93	22.04	21.82	
3	64QAM	1	8	21.84	21.85	21.86	22
3	64QAM	1	14	22.03	21.80	21.93	
3	64QAM	8	0	20.78	20.89	20.74	
3	64QAM	8	4	20.90	20.72	20.84	20
3	64QAM	8	7	20.87	20.76	20.77	
3	64QAM	15	0	20.72	20.77	20.67	
3	256QAM	1	0	19.10	19.12	18.86	20
3	256QAM	1	8	18.47	18.54	18.17	
3	256QAM	1	14	18.79	18.75	18.36	
3	256QAM	8	0	18.91	18.82	18.63	20
3	256QAM	8	4	18.70	18.75	18.54	
3	256QAM	8	7	18.76	18.86	18.47	
3	256QAM	15	0	18.81	18.85	18.50	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.88	23.81	23.85	25
1.4	QPSK	1	3	23.55	23.75	23.43	
1.4	QPSK	1	5	23.67	23.68	23.59	
1.4	QPSK	3	0	23.75	23.90	23.79	24
1.4	QPSK	3	1	23.59	23.85	23.45	
1.4	QPSK	3	3	23.81	23.76	23.69	
1.4	QPSK	6	0	22.61	22.66	22.61	24
1.4	16QAM	1	0	22.78	22.70	22.59	
1.4	16QAM	1	3	22.61	22.73	22.54	
1.4	16QAM	1	5	22.72	22.65	22.58	23
1.4	16QAM	3	0	23.18	23.07	22.73	
1.4	16QAM	3	1	22.93	23.07	23.08	
1.4	16QAM	3	3	23.09	23.12	22.91	23
1.4	16QAM	6	0	21.79	21.76	21.58	
1.4	64QAM	1	0	21.65	21.70	21.75	
1.4	64QAM	1	3	21.72	21.70	21.72	23
1.4	64QAM	1	5	21.66	21.78	21.66	
1.4	64QAM	3	0	22.06	21.98	21.86	
1.4	64QAM	3	1	21.88	21.85	21.98	22
1.4	64QAM	3	3	22.02	21.83	21.89	
1.4	64QAM	6	0	20.81	20.89	20.85	
1.4	256QAM	1	0	19.03	19.01	18.90	20
1.4	256QAM	1	3	18.46	18.52	18.26	
1.4	256QAM	1	5	18.72	18.73	18.42	
1.4	256QAM	3	0	18.82	18.89	18.53	20
1.4	256QAM	3	1	18.75	18.83	18.56	
1.4	256QAM	3	3	18.75	18.90	18.61	
1.4	256QAM	6	0	18.68	18.77	18.46	20



<LTE Band 2_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.92	20.55	20.78	
20	QPSK	1	49	20.59	20.84	20.80	22.2
20	QPSK	1	99	20.77	20.77	20.68	
20	QPSK	50	0	20.48	20.48	20.40	
20	QPSK	50	24	20.36	20.47	20.30	22.2
20	QPSK	50	50	20.39	20.55	20.37	
20	QPSK	100	0	20.39	20.45	20.45	
20	16QAM	1	0	20.71	20.66	20.74	22.2
20	16QAM	1	49	20.36	20.74	20.27	
20	16QAM	1	99	20.64	20.89	20.40	
20	16QAM	50	0	20.55	20.57	20.34	22.2
20	16QAM	50	24	20.49	20.39	20.46	
20	16QAM	50	50	20.49	20.42	20.33	
20	16QAM	100	0	20.48	20.56	20.33	22.2
20	64QAM	1	0	20.62	20.45	20.35	
20	64QAM	1	49	20.42	20.45	20.38	
20	64QAM	1	99	20.40	20.53	20.33	22
20	64QAM	50	0	20.65	20.67	20.51	
20	64QAM	50	24	20.60	20.64	20.57	
20	64QAM	50	50	20.65	20.78	20.55	20
20	64QAM	100	0	20.53	20.56	20.45	
20	256QAM	1	0	18.31	18.54	18.32	
20	256QAM	1	49	18.42	18.42	18.17	20
20	256QAM	1	99	18.20	18.40	18.09	
20	256QAM	50	0	18.25	18.41	18.14	20
20	256QAM	50	24	18.20	18.32	18.10	
20	256QAM	50	50	18.13	18.39	18.27	
20	256QAM	100	0	18.09	18.37	18.29	Tune-up limit (dBm)
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	20.79	20.41	20.61	22.2
15	QPSK	1	37	20.45	20.65	20.55	
15	QPSK	1	74	20.61	20.66	20.61	
15	QPSK	36	0	20.42	20.30	20.24	22.2
15	QPSK	36	20	20.21	20.36	20.10	
15	QPSK	36	39	20.27	20.42	20.27	
15	QPSK	75	0	20.30	20.39	20.24	22.2
15	16QAM	1	0	20.62	20.44	20.69	
15	16QAM	1	37	20.23	20.67	20.21	
15	16QAM	1	74	20.39	20.84	20.26	22.2
15	16QAM	36	0	20.50	20.44	20.17	
15	16QAM	36	20	20.35	20.20	20.34	
15	16QAM	36	39	20.25	20.29	20.17	22.2
15	16QAM	75	0	20.24	20.39	20.25	
15	64QAM	1	0	20.49	20.20	20.25	
15	64QAM	1	37	20.22	20.21	20.27	22
15	64QAM	1	74	20.31	20.40	20.08	
15	64QAM	36	0	20.60	20.52	20.33	
15	64QAM	36	20	20.50	20.58	20.42	20
15	64QAM	36	39	20.54	20.69	20.43	
15	64QAM	75	0	20.45	20.37	20.32	
15	256QAM	1	0	18.21	18.29	18.17	20
15	256QAM	1	37	18.22	18.35	17.99	
15	256QAM	1	74	17.96	18.23	18.04	
15	256QAM	36	0	18.04	18.26	18.07	20
15	256QAM	36	20	18.02	18.27	17.86	



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15	256QAM	36	39	18.02	18.19	18.16	Tune-up limit (dBm)
15	256QAM	75	0	17.90	18.27	18.21	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.72	20.37	20.54	22.2
10	QPSK	1	25	20.35	20.75	20.56	
10	QPSK	1	49	20.69	20.71	20.45	
10	QPSK	25	0	20.32	20.24	20.24	22.2
10	QPSK	25	12	20.15	20.42	20.14	
10	QPSK	25	25	20.28	20.41	20.15	
10	QPSK	50	0	20.25	20.29	20.34	22.2
10	16QAM	1	0	20.53	20.42	20.52	
10	16QAM	1	25	20.15	20.49	20.07	
10	16QAM	1	49	20.39	20.76	20.35	22.2
10	16QAM	25	0	20.37	20.35	20.27	
10	16QAM	25	12	20.42	20.17	20.33	
10	16QAM	25	25	20.38	20.17	20.26	22.2
10	16QAM	50	0	20.38	20.43	20.24	
10	64QAM	1	0	20.43	20.23	20.14	
10	64QAM	1	25	20.20	20.37	20.18	22.2
10	64QAM	1	49	20.16	20.39	20.17	
10	64QAM	25	0	20.46	20.58	20.36	
10	64QAM	25	12	20.49	20.41	20.51	22
10	64QAM	25	25	20.55	20.55	20.31	
10	64QAM	50	0	20.37	20.38	20.30	
10	256QAM	1	0	18.06	18.41	18.19	20
10	256QAM	1	25	18.24	18.22	17.93	
10	256QAM	1	49	18.15	18.18	17.88	
10	256QAM	25	0	18.08	18.35	18.05	20
10	256QAM	25	12	18.03	18.27	17.93	
10	256QAM	25	25	17.91	18.17	18.19	
10	256QAM	50	0	18.02	18.28	18.07	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	20.74	20.34	20.53	
5	QPSK	1	12	20.40	20.60	20.56	22.2
5	QPSK	1	24	20.71	20.61	20.49	
5	QPSK	12	0	20.33	20.25	20.16	
5	QPSK	12	7	20.21	20.34	20.05	22.2
5	QPSK	12	13	20.31	20.50	20.18	
5	QPSK	25	0	20.31	20.35	20.20	
5	16QAM	1	0	20.60	20.55	20.66	22.2
5	16QAM	1	12	20.13	20.62	20.20	
5	16QAM	1	24	20.45	20.69	20.24	
5	16QAM	12	0	20.41	20.47	20.09	22.2
5	16QAM	12	7	20.35	20.31	20.38	
5	16QAM	12	13	20.25	20.35	20.26	
5	16QAM	25	0	20.24	20.46	20.22	22.2
5	64QAM	1	0	20.49	20.27	20.22	
5	64QAM	1	12	20.18	20.38	20.22	
5	64QAM	1	24	20.20	20.39	20.13	22
5	64QAM	12	0	20.54	20.61	20.28	
5	64QAM	12	7	20.49	20.41	20.33	
5	64QAM	12	13	20.51	20.66	20.36	20
5	64QAM	25	0	20.39	20.38	20.38	
5	256QAM	1	0	18.24	18.39	18.27	
5	256QAM	1	12	18.34	18.27	18.11	20
5	256QAM	1	24	17.97	18.16	17.93	
5	256QAM	12	0	18.16	18.35	18.00	
5	256QAM	12	7	18.14	18.27	17.94	20
5	256QAM	12	13	17.91	18.20	18.20	
5	256QAM	25	0	17.85	18.23	18.12	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	20.70	20.30	20.58	22.2
3	QPSK	1	8	20.38	20.66	20.56	
3	QPSK	1	14	20.55	20.64	20.61	
3	QPSK	8	0	20.33	20.25	20.28	22.2
3	QPSK	8	4	20.11	20.24	20.19	
3	QPSK	8	7	20.29	20.46	20.27	
3	QPSK	15	0	20.28	20.27	20.36	
3	16QAM	1	0	20.61	20.59	20.55	22.2
3	16QAM	1	8	20.26	20.54	20.16	
3	16QAM	1	14	20.49	20.72	20.24	
3	16QAM	8	0	20.47	20.32	20.24	22.2
3	16QAM	8	4	20.44	20.18	20.41	
3	16QAM	8	7	20.30	20.21	20.26	
3	16QAM	15	0	20.32	20.41	20.10	
3	64QAM	1	0	20.47	20.37	20.21	22.2
3	64QAM	1	8	20.27	20.34	20.33	
3	64QAM	1	14	20.26	20.36	20.26	
3	64QAM	8	0	20.49	20.61	20.32	22
3	64QAM	8	4	20.39	20.42	20.41	
3	64QAM	8	7	20.42	20.54	20.50	
3	64QAM	15	0	20.28	20.45	20.30	
3	256QAM	1	0	18.08	18.46	18.09	20
3	256QAM	1	8	18.26	18.26	17.94	
3	256QAM	1	14	18.11	18.35	17.84	
3	256QAM	8	0	18.13	18.21	18.01	20
3	256QAM	8	4	18.09	18.22	17.94	
3	256QAM	8	7	17.89	18.28	18.16	
3	256QAM	15	0	17.86	18.16	18.17	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.76	20.36	20.56	22.2
1.4	QPSK	1	3	20.48	20.65	20.64	
1.4	QPSK	1	5	20.68	20.60	20.43	
1.4	QPSK	3	0	20.32	20.34	20.25	
1.4	QPSK	3	1	20.21	20.39	20.07	
1.4	QPSK	3	3	20.29	20.50	20.31	
1.4	QPSK	6	0	20.33	20.26	20.27	22.2
1.4	16QAM	1	0	20.60	20.46	20.62	22.2
1.4	16QAM	1	3	20.11	20.67	20.09	
1.4	16QAM	1	5	20.57	20.80	20.24	
1.4	16QAM	3	0	20.31	20.49	20.28	
1.4	16QAM	3	1	20.42	20.17	20.39	
1.4	16QAM	3	3	20.36	20.17	20.11	
1.4	16QAM	6	0	20.23	20.36	20.15	22.2
1.4	64QAM	1	0	20.49	20.39	20.22	22.2
1.4	64QAM	1	3	20.23	20.28	20.24	
1.4	64QAM	1	5	20.25	20.31	20.23	
1.4	64QAM	3	0	20.49	20.62	20.40	
1.4	64QAM	3	1	20.41	20.56	20.35	
1.4	64QAM	3	3	20.42	20.72	20.49	
1.4	64QAM	6	0	20.42	20.33	20.23	22
1.4	256QAM	1	0	18.09	18.32	18.07	20
1.4	256QAM	1	3	18.36	18.37	18.09	
1.4	256QAM	1	5	18.02	18.19	17.87	
1.4	256QAM	3	0	18.12	18.31	17.97	
1.4	256QAM	3	1	18.01	18.13	17.98	
1.4	256QAM	3	3	18.08	18.19	18.18	
1.4	256QAM	6	0	18.02	18.27	18.09	20



<LTE Band 2_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.16	24.31	24.27	25
20	QPSK	1	49	23.80	23.94	23.97	
20	QPSK	1	99	24.09	24.17	24.13	
20	QPSK	50	0	23.10	23.14	23.06	24
20	QPSK	50	24	23.03	23.13	23.08	
20	QPSK	50	50	23.08	23.16	23.04	
20	QPSK	100	0	23.11	23.19	23.13	
20	16QAM	1	0	23.44	23.38	23.52	24
20	16QAM	1	49	23.32	23.40	23.50	
20	16QAM	1	99	23.36	23.42	23.27	
20	16QAM	50	0	22.06	22.24	22.20	23
20	16QAM	50	24	22.02	22.14	22.13	
20	16QAM	50	50	22.10	22.12	22.08	
20	16QAM	100	0	22.12	22.16	22.07	
20	64QAM	1	0	22.42	22.50	22.46	23
20	64QAM	1	49	22.49	22.49	22.45	
20	64QAM	1	99	22.44	22.42	22.40	
20	64QAM	50	0	21.17	21.29	21.25	22
20	64QAM	50	24	21.19	21.29	21.22	
20	64QAM	50	50	21.23	21.27	21.15	
20	64QAM	100	0	21.18	21.31	21.15	
20	256QAM	1	0	19.41	19.49	19.33	20
20	256QAM	1	49	19.05	19.19	19.01	
20	256QAM	1	99	19.16	19.30	19.13	
20	256QAM	50	0	19.14	19.22	19.03	20
20	256QAM	50	24	19.13	19.24	19.03	
20	256QAM	50	50	19.12	19.22	19.06	
20	256QAM	100	0	19.13	19.26	19.05	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	24.09	24.12	24.16	25
15	QPSK	1	37	23.60	23.85	23.95	
15	QPSK	1	74	23.98	24.00	24.02	
15	QPSK	36	0	22.93	22.97	22.89	24
15	QPSK	36	20	22.98	22.93	23.01	
15	QPSK	36	39	23.08	23.15	22.92	
15	QPSK	75	0	22.95	23.13	23.11	
15	16QAM	1	0	23.31	23.30	23.36	24
15	16QAM	1	37	23.18	23.32	23.35	
15	16QAM	1	74	23.28	23.35	23.21	
15	16QAM	36	0	22.01	22.08	22.06	23
15	16QAM	36	20	22.02	22.04	22.01	
15	16QAM	36	39	22.07	22.04	21.97	
15	16QAM	75	0	21.95	22.00	21.96	
15	64QAM	1	0	22.23	22.30	22.33	23
15	64QAM	1	37	22.35	22.32	22.42	
15	64QAM	1	74	22.28	22.42	22.27	
15	64QAM	36	0	21.04	21.25	21.23	22
15	64QAM	36	20	20.99	21.22	21.11	
15	64QAM	36	39	21.14	21.13	21.07	
15	64QAM	75	0	21.06	21.25	21.10	
15	256QAM	1	0	19.32	19.38	19.25	20
15	256QAM	1	37	18.85	19.15	18.97	
15	256QAM	1	74	19.16	19.16	19.07	
15	256QAM	36	0	19.11	19.05	18.83	20
15	256QAM	36	20	19.12	19.13	18.97	



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15	256QAM	36	39	19.04	19.09	18.96	Tune-up limit (dBm)
15	256QAM	75	0	19.01	19.09	18.99	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.98	24.30	24.24	25
10	QPSK	1	25	23.73	23.89	23.82	
10	QPSK	1	49	23.92	23.99	24.01	
10	QPSK	25	0	22.95	23.03	22.91	24
10	QPSK	25	12	22.95	23.03	22.97	
10	QPSK	25	25	23.01	23.09	22.84	
10	QPSK	50	0	23.02	23.15	22.98	
10	16QAM	1	0	23.25	23.38	23.34	24
10	16QAM	1	25	23.29	23.26	23.50	
10	16QAM	1	49	23.22	23.26	23.11	
10	16QAM	25	0	22.00	22.11	22.00	23
10	16QAM	25	12	21.93	22.00	21.99	
10	16QAM	25	25	22.08	22.10	21.90	
10	16QAM	50	0	22.07	22.12	22.07	
10	64QAM	1	0	22.36	22.41	22.35	23
10	64QAM	1	25	22.31	22.37	22.31	
10	64QAM	1	49	22.30	22.38	22.23	
10	64QAM	25	0	21.16	21.12	21.23	22
10	64QAM	25	12	21.17	21.14	21.12	
10	64QAM	25	25	21.09	21.14	20.98	
10	64QAM	50	0	21.02	21.13	21.01	
10	256QAM	1	0	19.29	19.49	19.15	20
10	256QAM	1	25	18.98	19.06	18.97	
10	256QAM	1	49	19.09	19.30	18.96	
10	256QAM	25	0	19.14	19.16	18.93	
10	256QAM	25	12	19.06	19.20	18.85	20
10	256QAM	25	25	19.03	19.18	18.86	
10	256QAM	50	0	18.96	19.20	18.99	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.96	24.29	24.13	25
5	QPSK	1	12	23.71	23.75	23.83	
5	QPSK	1	24	23.91	24.09	24.05	
5	QPSK	12	0	23.00	23.05	22.99	24
5	QPSK	12	7	22.90	23.09	22.95	
5	QPSK	12	13	22.91	23.00	22.97	
5	QPSK	25	0	22.99	23.01	23.03	
5	16QAM	1	0	23.43	23.28	23.33	24
5	16QAM	1	12	23.23	23.27	23.46	
5	16QAM	1	24	23.35	23.33	23.13	
5	16QAM	12	0	21.96	22.18	22.09	23
5	16QAM	12	7	21.92	22.11	21.97	
5	16QAM	12	13	22.10	21.96	22.08	
5	16QAM	25	0	22.03	22.02	21.95	
5	64QAM	1	0	22.26	22.33	22.42	23
5	64QAM	1	12	22.34	22.37	22.36	
5	64QAM	1	24	22.25	22.39	22.37	
5	64QAM	12	0	21.01	21.26	21.14	22
5	64QAM	12	7	21.10	21.15	21.02	
5	64QAM	12	13	21.03	21.26	21.13	
5	64QAM	25	0	21.08	21.14	21.10	
5	256QAM	1	0	19.31	19.36	19.30	20
5	256QAM	1	12	18.85	19.19	18.93	
5	256QAM	1	24	19.03	19.15	19.05	
5	256QAM	12	0	19.10	19.19	18.90	
5	256QAM	12	7	18.96	19.15	19.02	20
5	256QAM	12	13	18.94	19.02	18.89	
5	256QAM	25	0	19.06	19.23	18.85	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	24.15	24.30	24.18	25
3	QPSK	1	8	23.66	23.81	23.96	
3	QPSK	1	14	23.89	24.05	23.97	
3	QPSK	8	0	22.93	23.01	23.00	24
3	QPSK	8	4	22.96	23.04	22.91	
3	QPSK	8	7	22.96	23.14	22.95	
3	QPSK	15	0	22.95	23.10	23.01	24
3	16QAM	1	0	23.25	23.25	23.52	
3	16QAM	1	8	23.29	23.27	23.35	
3	16QAM	1	14	23.28	23.41	23.23	23
3	16QAM	8	0	21.98	22.04	22.20	
3	16QAM	8	4	21.99	22.09	22.11	
3	16QAM	8	7	22.01	21.98	21.89	23
3	16QAM	15	0	22.09	21.98	22.06	
3	64QAM	1	0	22.39	22.38	22.26	
3	64QAM	1	8	22.32	22.43	22.31	22
3	64QAM	1	14	22.40	22.31	22.38	
3	64QAM	8	0	21.11	21.16	21.15	
3	64QAM	8	4	20.99	21.14	21.02	20
3	64QAM	8	7	21.18	21.07	21.01	
3	64QAM	15	0	21.05	21.22	21.08	
3	256QAM	1	0	19.37	19.32	19.14	20
3	256QAM	1	8	18.99	19.05	19.01	
3	256QAM	1	14	19.04	19.22	19.02	
3	256QAM	8	0	19.07	19.08	18.95	20
3	256QAM	8	4	18.97	19.20	18.97	
3	256QAM	8	7	19.10	19.13	19.05	
3	256QAM	15	0	19.09	19.26	19.05	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	25
1.4	QPSK	1	0	24.16	24.28	24.20	
1.4	QPSK	1	3	23.70	23.91	23.93	
1.4	QPSK	1	5	24.01	24.01	24.02	24
1.4	QPSK	3	0	24.00	24.30	24.18	
1.4	QPSK	3	1	23.66	23.78	23.94	
1.4	QPSK	3	3	24.08	23.99	23.95	24
1.4	QPSK	6	0	23.05	23.01	22.97	
1.4	16QAM	1	0	22.87	23.09	22.94	
1.4	16QAM	1	3	22.95	23.14	22.95	23
1.4	16QAM	1	5	22.96	23.03	22.94	
1.4	16QAM	3	0	23.29	23.21	23.34	
1.4	16QAM	3	1	23.24	23.38	23.42	23
1.4	16QAM	3	3	23.26	23.23	23.10	
1.4	16QAM	6	0	22.06	22.22	22.17	
1.4	64QAM	1	0	22.00	21.98	22.04	22
1.4	64QAM	1	3	21.93	21.92	22.06	
1.4	64QAM	1	5	22.09	22.06	21.92	
1.4	64QAM	3	0	22.31	22.48	22.45	20
1.4	64QAM	3	1	22.30	22.47	22.43	
1.4	64QAM	3	3	22.32	22.22	22.31	
1.4	64QAM	6	0	21.16	21.17	21.24	20
1.4	256QAM	1	0	19.23	19.41	19.18	
1.4	256QAM	1	3	18.93	19.10	18.86	
1.4	256QAM	1	5	19.07	19.25	18.96	20
1.4	256QAM	3	0	19.08	19.21	18.95	
1.4	256QAM	3	1	18.96	19.04	19.03	
1.4	256QAM	3	3	19.09	19.02	18.98	20
1.4	256QAM	6	0	18.98	19.20	18.93	

**<LTE Band 2_Ant 5_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	25
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	24
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	24
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	25
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	24
15	QPSK	36	20	22.51	22.74	22.59	
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	24
15	16QAM	1	0	22.92	23.08	22.85	
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	23
15	16QAM	36	0	21.67	21.71	21.63	
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	23
15	16QAM	75	0	21.61	21.74	21.59	
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	23
15	64QAM	1	74	22.01	21.83	21.82	
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	22
15	64QAM	36	39	20.72	20.65	20.66	
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	20
15	256QAM	1	37	18.63	18.76	18.69	
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	20
15	256QAM	36	20	18.62	18.75	18.77	



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	25
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	24
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	24
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	25
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	24
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	24
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	25
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	24
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	24
3	16QAM	1	0	22.98	23.17	23.02	
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	23
3	16QAM	8	0	21.53	21.66	21.67	
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	23
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	
3	64QAM	1	8	22.00	21.87	21.91	22
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	
3	64QAM	8	4	20.76	20.71	20.74	20
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	25
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	24
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	24
1.4	16QAM	1	0	22.56	22.69	22.64	
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	23
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	23
1.4	16QAM	6	0	21.53	21.71	21.69	
1.4	64QAM	1	0	21.59	21.65	21.48	
1.4	64QAM	1	3	21.49	21.68	21.40	22
1.4	64QAM	1	5	21.69	21.62	21.75	
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	20
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	20
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	
1.4	256QAM	6	0	18.71	18.76	18.69	20



<LTE Band 2_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.90	23.94	23.85	
20	QPSK	1	49	23.66	23.86	23.62	25
20	QPSK	1	99	23.81	23.81	23.73	
20	QPSK	50	0	22.81	22.82	22.77	
20	QPSK	50	24	22.81	22.81	22.72	24
20	QPSK	50	50	22.78	22.78	22.69	
20	QPSK	100	0	22.83	22.84	22.76	
20	16QAM	1	0	23.19	23.19	22.87	24
20	16QAM	1	49	23.04	23.09	23.10	
20	16QAM	1	99	23.15	23.17	22.95	
20	16QAM	50	0	21.84	21.90	21.74	23
20	16QAM	50	24	21.78	21.87	21.79	
20	16QAM	50	50	21.80	21.84	21.77	
20	16QAM	100	0	21.80	21.90	21.73	23
20	64QAM	1	0	22.13	22.16	21.97	
20	64QAM	1	49	21.88	22.03	22.03	
20	64QAM	1	99	22.12	21.98	22.00	22
20	64QAM	50	0	20.95	21.04	20.86	
20	64QAM	50	24	20.92	20.90	20.90	
20	64QAM	50	50	20.91	20.91	20.82	20
20	64QAM	100	0	20.90	20.94	20.85	
20	256QAM	1	0	19.15	19.17	18.92	
20	256QAM	1	49	18.63	18.65	18.35	20
20	256QAM	1	99	18.79	18.85	18.56	
20	256QAM	50	0	18.91	18.97	18.67	
20	256QAM	50	24	18.82	18.89	18.62	20
20	256QAM	50	50	18.82	18.92	18.65	
20	256QAM	100	0	18.85	18.95	18.62	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.76	23.81	23.76	
15	QPSK	1	37	23.63	23.81	23.50	25
15	QPSK	1	74	23.61	23.65	23.58	
15	QPSK	36	0	22.76	22.80	22.74	24
15	QPSK	36	20	22.77	22.64	22.52	
15	QPSK	36	39	22.63	22.71	22.54	
15	QPSK	75	0	22.78	22.80	22.74	24
15	16QAM	1	0	23.04	23.18	22.73	
15	16QAM	1	37	23.02	22.98	22.90	
15	16QAM	1	74	22.97	23.14	22.85	23
15	16QAM	36	0	21.72	21.85	21.67	
15	16QAM	36	20	21.75	21.83	21.62	
15	16QAM	36	39	21.61	21.79	21.67	23
15	16QAM	75	0	21.66	21.73	21.72	
15	64QAM	1	0	21.99	22.01	21.84	
15	64QAM	1	37	21.76	22.01	22.00	22
15	64QAM	1	74	22.05	21.80	21.87	
15	64QAM	36	0	20.90	20.89	20.66	
15	64QAM	36	20	20.72	20.84	20.89	20
15	64QAM	36	39	20.72	20.91	20.71	
15	64QAM	75	0	20.78	20.89	20.65	
15	256QAM	1	0	19.02	18.97	18.90	20
15	256QAM	1	37	18.49	18.60	18.34	
15	256QAM	1	74	18.65	18.76	18.49	
15	256QAM	36	0	18.83	18.95	18.47	20
15	256QAM	36	20	18.73	18.78	18.45	



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15	256QAM	36	39	18.75	18.83	18.51	Tune-up limit (dBm)
15	256QAM	75	0	18.76	18.94	18.45	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.89	23.85	23.81	25
10	QPSK	1	25	23.62	23.77	23.44	
10	QPSK	1	49	23.63	23.81	23.58	
10	QPSK	25	0	22.80	22.80	22.66	24
10	QPSK	25	12	22.75	22.78	22.72	
10	QPSK	25	25	22.61	22.64	22.51	
10	QPSK	50	0	22.69	22.77	22.74	
10	16QAM	1	0	23.02	23.03	22.68	24
10	16QAM	1	25	22.86	23.08	23.10	
10	16QAM	1	49	22.97	22.97	22.75	23
10	16QAM	25	0	21.64	21.71	21.74	
10	16QAM	25	12	21.61	21.72	21.60	
10	16QAM	25	25	21.65	21.67	21.59	
10	16QAM	50	0	21.69	21.79	21.64	23
10	64QAM	1	0	21.98	22.09	21.79	
10	64QAM	1	25	21.78	21.85	21.90	
10	64QAM	1	49	21.93	21.78	21.83	22
10	64QAM	25	0	20.84	20.87	20.70	
10	64QAM	25	12	20.78	20.74	20.90	
10	64QAM	25	25	20.85	20.74	20.76	
10	64QAM	50	0	20.83	20.83	20.78	20
10	256QAM	1	0	19.04	19.12	18.72	
10	256QAM	1	25	18.48	18.61	18.33	
10	256QAM	1	49	18.76	18.81	18.45	
10	256QAM	25	0	18.73	18.80	18.50	20
10	256QAM	25	12	18.76	18.77	18.52	
10	256QAM	25	25	18.66	18.87	18.63	
10	256QAM	50	0	18.73	18.76	18.47	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.70	23.81	23.76	25
5	QPSK	1	12	23.50	23.78	23.57	
5	QPSK	1	24	23.69	23.61	23.69	
5	QPSK	12	0	22.69	22.76	22.62	24
5	QPSK	12	7	22.73	22.70	22.59	
5	QPSK	12	13	22.62	22.61	22.61	
5	QPSK	25	0	22.65	22.81	22.72	
5	16QAM	1	0	23.11	23.12	22.80	24
5	16QAM	1	12	22.89	22.99	22.90	
5	16QAM	1	24	22.99	23.12	22.76	
5	16QAM	12	0	21.65	21.82	21.68	23
5	16QAM	12	7	21.69	21.74	21.64	
5	16QAM	12	13	21.77	21.77	21.71	
5	16QAM	25	0	21.62	21.79	21.57	
5	64QAM	1	0	22.03	22.08	21.97	23
5	64QAM	1	12	21.79	21.83	21.99	
5	64QAM	1	24	22.00	21.88	21.92	
5	64QAM	12	0	20.81	20.96	20.80	22
5	64QAM	12	7	20.82	20.88	20.78	
5	64QAM	12	13	20.91	20.78	20.69	
5	64QAM	25	0	20.88	20.93	20.76	
5	256QAM	1	0	19.13	19.07	18.86	20
5	256QAM	1	12	18.58	18.63	18.23	
5	256QAM	1	24	18.59	18.83	18.44	
5	256QAM	12	0	18.77	18.78	18.48	20
5	256QAM	12	7	18.73	18.81	18.55	
5	256QAM	12	13	18.77	18.84	18.61	
5	256QAM	25	0	18.69	18.79	18.48	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.75	23.86	23.72	25
3	QPSK	1	8	23.60	23.85	23.62	
3	QPSK	1	14	23.80	23.77	23.53	
3	QPSK	8	0	22.81	22.72	22.65	24
3	QPSK	8	4	22.79	22.77	22.54	
3	QPSK	8	7	22.78	22.72	22.54	
3	QPSK	15	0	22.82	22.65	22.75	24
3	16QAM	1	0	23.10	23.14	22.82	
3	16QAM	1	8	22.98	23.09	23.06	
3	16QAM	1	14	22.96	23.14	22.81	23
3	16QAM	8	0	21.74	21.78	21.55	
3	16QAM	8	4	21.74	21.84	21.78	
3	16QAM	8	7	21.78	21.74	21.72	23
3	16QAM	15	0	21.75	21.74	21.62	
3	64QAM	1	0	21.93	22.04	21.82	
3	64QAM	1	8	21.84	21.85	21.86	22
3	64QAM	1	14	22.03	21.80	21.93	
3	64QAM	8	0	20.78	20.89	20.74	
3	64QAM	8	4	20.90	20.72	20.84	20
3	64QAM	8	7	20.87	20.76	20.77	
3	64QAM	15	0	20.72	20.77	20.67	
3	256QAM	1	0	19.10	19.12	18.86	20
3	256QAM	1	8	18.47	18.54	18.17	
3	256QAM	1	14	18.79	18.75	18.36	
3	256QAM	8	0	18.91	18.82	18.63	20
3	256QAM	8	4	18.70	18.75	18.54	
3	256QAM	8	7	18.76	18.86	18.47	
3	256QAM	15	0	18.81	18.85	18.50	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.88	23.81	23.85	25
1.4	QPSK	1	3	23.55	23.75	23.43	
1.4	QPSK	1	5	23.67	23.68	23.59	
1.4	QPSK	3	0	23.75	23.90	23.79	24
1.4	QPSK	3	1	23.59	23.85	23.45	
1.4	QPSK	3	3	23.81	23.76	23.69	
1.4	QPSK	6	0	22.61	22.66	22.61	24
1.4	16QAM	1	0	22.78	22.70	22.59	
1.4	16QAM	1	3	22.61	22.73	22.54	
1.4	16QAM	1	5	22.72	22.65	22.58	23
1.4	16QAM	3	0	23.18	23.07	22.73	
1.4	16QAM	3	1	22.93	23.07	23.08	
1.4	16QAM	3	3	23.09	23.12	22.91	23
1.4	16QAM	6	0	21.79	21.76	21.58	
1.4	64QAM	1	0	21.65	21.70	21.75	
1.4	64QAM	1	3	21.72	21.70	21.72	22
1.4	64QAM	1	5	21.66	21.78	21.66	
1.4	64QAM	3	0	22.06	21.98	21.86	
1.4	64QAM	3	1	21.88	21.85	21.98	20
1.4	64QAM	3	3	22.02	21.83	21.89	
1.4	64QAM	6	0	20.81	20.89	20.85	
1.4	256QAM	1	0	19.03	19.01	18.90	20
1.4	256QAM	1	3	18.46	18.52	18.26	
1.4	256QAM	1	5	18.72	18.73	18.42	
1.4	256QAM	3	0	18.82	18.89	18.53	20
1.4	256QAM	3	1	18.75	18.83	18.56	
1.4	256QAM	3	3	18.75	18.90	18.61	
1.4	256QAM	6	0	18.68	18.77	18.46	20



<LTE Band 2_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.92	20.55	20.78	
20	QPSK	1	49	20.59	20.84	20.80	21.5
20	QPSK	1	99	20.77	20.77	20.68	
20	QPSK	50	0	20.48	20.48	20.40	
20	QPSK	50	24	20.36	20.47	20.30	21.5
20	QPSK	50	50	20.39	20.55	20.37	
20	QPSK	100	0	20.39	20.45	20.45	
20	16QAM	1	0	20.71	20.66	20.74	21.5
20	16QAM	1	49	20.36	20.74	20.27	
20	16QAM	1	99	20.64	20.89	20.40	
20	16QAM	50	0	20.55	20.57	20.34	21.5
20	16QAM	50	24	20.49	20.39	20.46	
20	16QAM	50	50	20.49	20.42	20.33	
20	16QAM	100	0	20.48	20.56	20.33	21.5
20	64QAM	1	0	20.62	20.45	20.35	
20	64QAM	1	49	20.42	20.45	20.38	
20	64QAM	1	99	20.40	20.53	20.33	21.5
20	64QAM	50	0	20.65	20.67	20.51	
20	64QAM	50	24	20.60	20.64	20.57	
20	64QAM	50	50	20.65	20.78	20.55	20
20	64QAM	100	0	20.53	20.56	20.45	
20	256QAM	1	0	18.31	18.54	18.32	
20	256QAM	1	49	18.42	18.42	18.17	20
20	256QAM	1	99	18.20	18.40	18.09	
20	256QAM	50	0	18.25	18.41	18.14	20
20	256QAM	50	24	18.20	18.32	18.10	
20	256QAM	50	50	18.13	18.39	18.27	
20	256QAM	100	0	18.09	18.37	18.29	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	20.79	20.41	20.61	
15	QPSK	1	37	20.45	20.65	20.55	21.5
15	QPSK	1	74	20.61	20.66	20.61	
15	QPSK	36	0	20.42	20.30	20.24	21.5
15	QPSK	36	20	20.21	20.36	20.10	
15	QPSK	36	39	20.27	20.42	20.27	
15	QPSK	75	0	20.30	20.39	20.24	21.5
15	16QAM	1	0	20.62	20.44	20.69	
15	16QAM	1	37	20.23	20.67	20.21	
15	16QAM	1	74	20.39	20.84	20.26	21.5
15	16QAM	36	0	20.50	20.44	20.17	
15	16QAM	36	20	20.35	20.20	20.34	
15	16QAM	36	39	20.25	20.29	20.17	21.5
15	16QAM	75	0	20.24	20.39	20.25	
15	64QAM	1	0	20.49	20.20	20.25	
15	64QAM	1	37	20.22	20.21	20.27	21.5
15	64QAM	1	74	20.31	20.40	20.08	
15	64QAM	36	0	20.60	20.52	20.33	
15	64QAM	36	20	20.50	20.58	20.42	21.5
15	64QAM	36	39	20.54	20.69	20.43	
15	64QAM	75	0	20.45	20.37	20.32	
15	256QAM	1	0	18.21	18.29	18.17	20
15	256QAM	1	37	18.22	18.35	17.99	
15	256QAM	1	74	17.96	18.23	18.04	
15	256QAM	36	0	18.04	18.26	18.07	20
15	256QAM	36	20	18.02	18.27	17.86	



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15	256QAM	36	39	18.02	18.19	18.16	Tune-up limit (dBm)
15	256QAM	75	0	17.90	18.27	18.21	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.72	20.37	20.54	21.5
10	QPSK	1	25	20.35	20.75	20.56	
10	QPSK	1	49	20.69	20.71	20.45	
10	QPSK	25	0	20.32	20.24	20.24	21.5
10	QPSK	25	12	20.15	20.42	20.14	
10	QPSK	25	25	20.28	20.41	20.15	
10	QPSK	50	0	20.25	20.29	20.34	
10	16QAM	1	0	20.53	20.42	20.52	21.5
10	16QAM	1	25	20.15	20.49	20.07	
10	16QAM	1	49	20.39	20.76	20.35	
10	16QAM	25	0	20.37	20.35	20.27	21.5
10	16QAM	25	12	20.42	20.17	20.33	
10	16QAM	25	25	20.38	20.17	20.26	
10	16QAM	50	0	20.38	20.43	20.24	
10	64QAM	1	0	20.43	20.23	20.14	21.5
10	64QAM	1	25	20.20	20.37	20.18	
10	64QAM	1	49	20.16	20.39	20.17	
10	64QAM	25	0	20.46	20.58	20.36	21.5
10	64QAM	25	12	20.49	20.41	20.51	
10	64QAM	25	25	20.55	20.55	20.31	
10	64QAM	50	0	20.37	20.38	20.30	
10	256QAM	1	0	18.06	18.41	18.19	20
10	256QAM	1	25	18.24	18.22	17.93	
10	256QAM	1	49	18.15	18.18	17.88	
10	256QAM	25	0	18.08	18.35	18.05	20
10	256QAM	25	12	18.03	18.27	17.93	
10	256QAM	25	25	17.91	18.17	18.19	
10	256QAM	50	0	18.02	18.28	18.07	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.74	20.34	20.53	21.5
5	QPSK	1	12	20.40	20.60	20.56	
5	QPSK	1	24	20.71	20.61	20.49	
5	QPSK	12	0	20.33	20.25	20.16	21.5
5	QPSK	12	7	20.21	20.34	20.05	
5	QPSK	12	13	20.31	20.50	20.18	
5	QPSK	25	0	20.31	20.35	20.20	
5	16QAM	1	0	20.60	20.55	20.66	21.5
5	16QAM	1	12	20.13	20.62	20.20	
5	16QAM	1	24	20.45	20.69	20.24	
5	16QAM	12	0	20.41	20.47	20.09	21.5
5	16QAM	12	7	20.35	20.31	20.38	
5	16QAM	12	13	20.25	20.35	20.26	
5	16QAM	25	0	20.24	20.46	20.22	
5	64QAM	1	0	20.49	20.27	20.22	21.5
5	64QAM	1	12	20.18	20.38	20.22	
5	64QAM	1	24	20.20	20.39	20.13	
5	64QAM	12	0	20.54	20.61	20.28	21.5
5	64QAM	12	7	20.49	20.41	20.33	
5	64QAM	12	13	20.51	20.66	20.36	
5	64QAM	25	0	20.39	20.38	20.38	
5	256QAM	1	0	18.24	18.39	18.27	20
5	256QAM	1	12	18.34	18.27	18.11	
5	256QAM	1	24	17.97	18.16	17.93	
5	256QAM	12	0	18.16	18.35	18.00	20
5	256QAM	12	7	18.14	18.27	17.94	
5	256QAM	12	13	17.91	18.20	18.20	
5	256QAM	25	0	17.85	18.23	18.12	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	20.70	20.30	20.58	21.5
3	QPSK	1	8	20.38	20.66	20.56	
3	QPSK	1	14	20.55	20.64	20.61	
3	QPSK	8	0	20.33	20.25	20.28	21.5
3	QPSK	8	4	20.11	20.24	20.19	
3	QPSK	8	7	20.29	20.46	20.27	
3	QPSK	15	0	20.28	20.27	20.36	
3	16QAM	1	0	20.61	20.59	20.55	21.5
3	16QAM	1	8	20.26	20.54	20.16	
3	16QAM	1	14	20.49	20.72	20.24	
3	16QAM	8	0	20.47	20.32	20.24	21.5
3	16QAM	8	4	20.44	20.18	20.41	
3	16QAM	8	7	20.30	20.21	20.26	
3	16QAM	15	0	20.32	20.41	20.10	
3	64QAM	1	0	20.47	20.37	20.21	21.5
3	64QAM	1	8	20.27	20.34	20.33	
3	64QAM	1	14	20.26	20.36	20.26	
3	64QAM	8	0	20.49	20.61	20.32	21.5
3	64QAM	8	4	20.39	20.42	20.41	
3	64QAM	8	7	20.42	20.54	20.50	
3	64QAM	15	0	20.28	20.45	20.30	
3	256QAM	1	0	18.08	18.46	18.09	20
3	256QAM	1	8	18.26	18.26	17.94	
3	256QAM	1	14	18.11	18.35	17.84	
3	256QAM	8	0	18.13	18.21	18.01	20
3	256QAM	8	4	18.09	18.22	17.94	
3	256QAM	8	7	17.89	18.28	18.16	
3	256QAM	15	0	17.86	18.16	18.17	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.76	20.36	20.56	21.5
1.4	QPSK	1	3	20.48	20.65	20.64	
1.4	QPSK	1	5	20.68	20.60	20.43	
1.4	QPSK	3	0	20.32	20.34	20.25	
1.4	QPSK	3	1	20.21	20.39	20.07	
1.4	QPSK	3	3	20.29	20.50	20.31	
1.4	QPSK	6	0	20.33	20.26	20.27	21.5
1.4	16QAM	1	0	20.60	20.46	20.62	21.5
1.4	16QAM	1	3	20.11	20.67	20.09	
1.4	16QAM	1	5	20.57	20.80	20.24	
1.4	16QAM	3	0	20.31	20.49	20.28	
1.4	16QAM	3	1	20.42	20.17	20.39	
1.4	16QAM	3	3	20.36	20.17	20.11	
1.4	16QAM	6	0	20.23	20.36	20.15	21.5
1.4	64QAM	1	0	20.49	20.39	20.22	21.5
1.4	64QAM	1	3	20.23	20.28	20.24	
1.4	64QAM	1	5	20.25	20.31	20.23	
1.4	64QAM	3	0	20.49	20.62	20.40	
1.4	64QAM	3	1	20.41	20.56	20.35	
1.4	64QAM	3	3	20.42	20.72	20.49	
1.4	64QAM	6	0	20.42	20.33	20.23	21.5
1.4	256QAM	1	0	18.09	18.32	18.07	20
1.4	256QAM	1	3	18.36	18.37	18.09	
1.4	256QAM	1	5	18.02	18.19	17.87	
1.4	256QAM	3	0	18.12	18.31	17.97	
1.4	256QAM	3	1	18.01	18.13	17.98	
1.4	256QAM	3	3	18.08	18.19	18.18	
1.4	256QAM	6	0	18.02	18.27	18.09	20



<LTE Band 2_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.16	24.31	24.27	
20	QPSK	1	49	23.80	23.94	23.97	25
20	QPSK	1	99	24.09	24.17	24.13	
20	QPSK	50	0	23.10	23.14	23.06	
20	QPSK	50	24	23.03	23.13	23.08	24
20	QPSK	50	50	23.08	23.16	23.04	
20	QPSK	100	0	23.11	23.19	23.13	
20	16QAM	1	0	23.44	23.38	23.52	24
20	16QAM	1	49	23.32	23.40	23.50	
20	16QAM	1	99	23.36	23.42	23.27	
20	16QAM	50	0	22.06	22.24	22.20	23
20	16QAM	50	24	22.02	22.14	22.13	
20	16QAM	50	50	22.10	22.12	22.08	
20	16QAM	100	0	22.12	22.16	22.07	23
20	64QAM	1	0	22.42	22.50	22.46	
20	64QAM	1	49	22.49	22.49	22.45	
20	64QAM	1	99	22.44	22.42	22.40	22
20	64QAM	50	0	21.17	21.29	21.25	
20	64QAM	50	24	21.19	21.29	21.22	
20	64QAM	50	50	21.23	21.27	21.15	20
20	64QAM	100	0	21.18	21.31	21.15	
20	256QAM	1	0	19.41	19.49	19.33	
20	256QAM	1	49	19.05	19.19	19.01	20
20	256QAM	1	99	19.16	19.30	19.13	
20	256QAM	50	0	19.14	19.22	19.03	
20	256QAM	50	24	19.13	19.24	19.03	20
20	256QAM	50	50	19.12	19.22	19.06	
20	256QAM	100	0	19.13	19.26	19.05	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	24.09	24.12	24.16	
15	QPSK	1	37	23.60	23.85	23.95	25
15	QPSK	1	74	23.98	24.00	24.02	
15	QPSK	36	0	22.93	22.97	22.89	24
15	QPSK	36	20	22.98	22.93	23.01	
15	QPSK	36	39	23.08	23.15	22.92	
15	QPSK	75	0	22.95	23.13	23.11	24
15	16QAM	1	0	23.31	23.30	23.36	
15	16QAM	1	37	23.18	23.32	23.35	
15	16QAM	1	74	23.28	23.35	23.21	23
15	16QAM	36	0	22.01	22.08	22.06	
15	16QAM	36	20	22.02	22.04	22.01	
15	16QAM	36	39	22.07	22.04	21.97	23
15	16QAM	75	0	21.95	22.00	21.96	
15	64QAM	1	0	22.23	22.30	22.33	
15	64QAM	1	37	22.35	22.32	22.42	23
15	64QAM	1	74	22.28	22.42	22.27	
15	64QAM	36	0	21.04	21.25	21.23	22
15	64QAM	36	20	20.99	21.22	21.11	
15	64QAM	36	39	21.14	21.13	21.07	
15	64QAM	75	0	21.06	21.25	21.10	20
15	256QAM	1	0	19.32	19.38	19.25	
15	256QAM	1	37	18.85	19.15	18.97	
15	256QAM	1	74	19.16	19.16	19.07	20
15	256QAM	36	0	19.11	19.05	18.83	
15	256QAM	36	20	19.12	19.13	18.97	



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15	256QAM	36	39	19.04	19.09	18.96	Tune-up limit (dBm)
15	256QAM	75	0	19.01	19.09	18.99	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.98	24.30	24.24	25
10	QPSK	1	25	23.73	23.89	23.82	
10	QPSK	1	49	23.92	23.99	24.01	
10	QPSK	25	0	22.95	23.03	22.91	24
10	QPSK	25	12	22.95	23.03	22.97	
10	QPSK	25	25	23.01	23.09	22.84	
10	QPSK	50	0	23.02	23.15	22.98	
10	16QAM	1	0	23.25	23.38	23.34	24
10	16QAM	1	25	23.29	23.26	23.50	
10	16QAM	1	49	23.22	23.26	23.11	
10	16QAM	25	0	22.00	22.11	22.00	23
10	16QAM	25	12	21.93	22.00	21.99	
10	16QAM	25	25	22.08	22.10	21.90	
10	16QAM	50	0	22.07	22.12	22.07	
10	64QAM	1	0	22.36	22.41	22.35	23
10	64QAM	1	25	22.31	22.37	22.31	
10	64QAM	1	49	22.30	22.38	22.23	
10	64QAM	25	0	21.16	21.12	21.23	22
10	64QAM	25	12	21.17	21.14	21.12	
10	64QAM	25	25	21.09	21.14	20.98	
10	64QAM	50	0	21.02	21.13	21.01	
10	256QAM	1	0	19.29	19.49	19.15	20
10	256QAM	1	25	18.98	19.06	18.97	
10	256QAM	1	49	19.09	19.30	18.96	
10	256QAM	25	0	19.14	19.16	18.93	
10	256QAM	25	12	19.06	19.20	18.85	20
10	256QAM	25	25	19.03	19.18	18.86	
10	256QAM	50	0	18.96	19.20	18.99	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.96	24.29	24.13	25
5	QPSK	1	12	23.71	23.75	23.83	
5	QPSK	1	24	23.91	24.09	24.05	
5	QPSK	12	0	23.00	23.05	22.99	24
5	QPSK	12	7	22.90	23.09	22.95	
5	QPSK	12	13	22.91	23.00	22.97	
5	QPSK	25	0	22.99	23.01	23.03	
5	16QAM	1	0	23.43	23.28	23.33	24
5	16QAM	1	12	23.23	23.27	23.46	
5	16QAM	1	24	23.35	23.33	23.13	
5	16QAM	12	0	21.96	22.18	22.09	23
5	16QAM	12	7	21.92	22.11	21.97	
5	16QAM	12	13	22.10	21.96	22.08	
5	16QAM	25	0	22.03	22.02	21.95	
5	64QAM	1	0	22.26	22.33	22.42	23
5	64QAM	1	12	22.34	22.37	22.36	
5	64QAM	1	24	22.25	22.39	22.37	
5	64QAM	12	0	21.01	21.26	21.14	22
5	64QAM	12	7	21.10	21.15	21.02	
5	64QAM	12	13	21.03	21.26	21.13	
5	64QAM	25	0	21.08	21.14	21.10	
5	256QAM	1	0	19.31	19.36	19.30	20
5	256QAM	1	12	18.85	19.19	18.93	
5	256QAM	1	24	19.03	19.15	19.05	
5	256QAM	12	0	19.10	19.19	18.90	
5	256QAM	12	7	18.96	19.15	19.02	20
5	256QAM	12	13	18.94	19.02	18.89	
5	256QAM	25	0	19.06	19.23	18.85	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	24.15	24.30	24.18	25
3	QPSK	1	8	23.66	23.81	23.96	
3	QPSK	1	14	23.89	24.05	23.97	
3	QPSK	8	0	22.93	23.01	23.00	24
3	QPSK	8	4	22.96	23.04	22.91	
3	QPSK	8	7	22.96	23.14	22.95	
3	QPSK	15	0	22.95	23.10	23.01	24
3	16QAM	1	0	23.25	23.25	23.52	
3	16QAM	1	8	23.29	23.27	23.35	
3	16QAM	1	14	23.28	23.41	23.23	23
3	16QAM	8	0	21.98	22.04	22.20	
3	16QAM	8	4	21.99	22.09	22.11	
3	16QAM	8	7	22.01	21.98	21.89	23
3	16QAM	15	0	22.09	21.98	22.06	
3	64QAM	1	0	22.39	22.38	22.26	
3	64QAM	1	8	22.32	22.43	22.31	22
3	64QAM	1	14	22.40	22.31	22.38	
3	64QAM	8	0	21.11	21.16	21.15	
3	64QAM	8	4	20.99	21.14	21.02	20
3	64QAM	8	7	21.18	21.07	21.01	
3	64QAM	15	0	21.05	21.22	21.08	
3	256QAM	1	0	19.37	19.32	19.14	20
3	256QAM	1	8	18.99	19.05	19.01	
3	256QAM	1	14	19.04	19.22	19.02	
3	256QAM	8	0	19.07	19.08	18.95	20
3	256QAM	8	4	18.97	19.20	18.97	
3	256QAM	8	7	19.10	19.13	19.05	
3	256QAM	15	0	19.09	19.26	19.05	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	25
1.4	QPSK	1	0	24.16	24.28	24.20	
1.4	QPSK	1	3	23.70	23.91	23.93	
1.4	QPSK	1	5	24.01	24.01	24.02	
1.4	QPSK	3	0	24.00	24.30	24.18	
1.4	QPSK	3	1	23.66	23.78	23.94	
1.4	QPSK	3	3	24.08	23.99	23.95	
1.4	QPSK	6	0	23.05	23.01	22.97	24
1.4	16QAM	1	0	22.87	23.09	22.94	24
1.4	16QAM	1	3	22.95	23.14	22.95	
1.4	16QAM	1	5	22.96	23.03	22.94	
1.4	16QAM	3	0	23.29	23.21	23.34	
1.4	16QAM	3	1	23.24	23.38	23.42	
1.4	16QAM	3	3	23.26	23.23	23.10	23
1.4	16QAM	6	0	22.06	22.22	22.17	
1.4	64QAM	1	0	22.00	21.98	22.04	
1.4	64QAM	1	3	21.93	21.92	22.06	
1.4	64QAM	1	5	22.09	22.06	21.92	
1.4	64QAM	3	0	22.31	22.48	22.45	23
1.4	64QAM	3	1	22.30	22.47	22.43	
1.4	64QAM	3	3	22.32	22.22	22.31	
1.4	64QAM	6	0	21.16	21.17	21.24	
1.4	256QAM	1	0	19.23	19.41	19.18	
1.4	256QAM	1	3	18.93	19.10	18.86	20
1.4	256QAM	1	5	19.07	19.25	18.96	
1.4	256QAM	3	0	19.08	19.21	18.95	
1.4	256QAM	3	1	18.96	19.04	19.03	
1.4	256QAM	3	3	19.09	19.02	18.98	
1.4	256QAM	6	0	18.98	19.20	18.93	20



<LTE Band 2_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	25
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	24
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	24
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	25
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	24
15	QPSK	36	20	22.51	22.74	22.59	
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	24
15	16QAM	1	0	22.92	23.08	22.85	
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	23
15	16QAM	36	0	21.67	21.71	21.63	
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	23
15	16QAM	75	0	21.61	21.74	21.59	
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	23
15	64QAM	1	74	22.01	21.83	21.82	
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	22
15	64QAM	36	39	20.72	20.65	20.66	
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	20
15	256QAM	1	37	18.63	18.76	18.69	
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	20
15	256QAM	36	20	18.62	18.75	18.77	



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	25
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	24
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	24
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	25
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	24
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	24
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	25
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	24
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	24
3	16QAM	1	0	22.98	23.17	23.02	
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	23
3	16QAM	8	0	21.53	21.66	21.67	
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	23
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	
3	64QAM	1	8	22.00	21.87	21.91	22
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	
3	64QAM	8	4	20.76	20.71	20.74	20
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	25
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	24
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	24
1.4	16QAM	1	0	22.56	22.69	22.64	
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	23
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	23
1.4	16QAM	6	0	21.53	21.71	21.69	
1.4	64QAM	1	0	21.59	21.65	21.48	
1.4	64QAM	1	3	21.49	21.68	21.40	22
1.4	64QAM	1	5	21.69	21.62	21.75	
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	20
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	20
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	
1.4	256QAM	6	0	18.71	18.76	18.69	20

**<LTE Band 2_Ant 2_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.35	17.42	17.37	
20	QPSK	1	49	17.18	17.25	17.19	18.1
20	QPSK	1	99	17.18	17.22	17.13	
20	QPSK	50	0	17.29	17.34	17.22	
20	QPSK	50	24	17.24	17.32	17.21	18.1
20	QPSK	50	50	17.25	17.28	17.20	
20	QPSK	100	0	17.24	17.31	17.25	
20	16QAM	1	0	17.40	17.42	17.39	18.1
20	16QAM	1	49	17.22	17.37	17.32	
20	16QAM	1	99	17.42	17.44	17.41	
20	16QAM	50	0	17.25	17.33	17.22	18.1
20	16QAM	50	24	17.22	17.27	17.22	
20	16QAM	50	50	17.25	17.24	17.24	
20	16QAM	100	0	17.28	17.28	17.25	18.1
20	64QAM	1	0	17.53	17.49	17.44	
20	64QAM	1	49	17.51	17.43	17.51	
20	64QAM	1	99	17.41	17.44	17.39	18.1
20	64QAM	50	0	17.33	17.36	17.27	
20	64QAM	50	24	17.34	17.38	17.29	
20	64QAM	50	50	17.33	17.32	17.26	18.1
20	64QAM	100	0	17.25	17.31	17.18	
20	256QAM	1	0	17.30	17.34	17.27	
20	256QAM	1	49	17.36	17.38	17.36	18.1
20	256QAM	1	99	17.42	17.22	17.19	
20	256QAM	50	0	17.18	17.14	17.08	
20	256QAM	50	24	17.12	17.18	17.12	18.1
20	256QAM	50	50	17.17	17.16	17.07	
20	256QAM	100	0	17.04	17.10	17.03	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.11	17.15	17.15	
15	QPSK	1	37	17.00	17.14	17.06	18.1
15	QPSK	1	74	17.05	17.06	16.99	
15	QPSK	36	0	17.19	17.22	17.10	
15	QPSK	36	20	17.04	17.17	17.09	18.1
15	QPSK	36	39	17.10	17.09	17.05	
15	QPSK	75	0	17.13	17.19	17.09	
15	16QAM	1	0	17.39	17.39	17.22	18.1
15	16QAM	1	37	17.40	17.44	17.34	
15	16QAM	1	74	17.47	17.33	17.46	
15	16QAM	36	0	17.11	17.20	17.05	18.1
15	16QAM	36	20	17.10	17.09	17.11	
15	16QAM	36	39	17.13	17.14	17.13	
15	16QAM	75	0	17.13	17.09	17.06	18.1
15	64QAM	1	0	17.40	17.36	17.29	
15	64QAM	1	37	17.31	17.35	17.40	
15	64QAM	1	74	17.42	17.28	17.26	18.1
15	64QAM	36	0	17.21	17.25	17.12	
15	64QAM	36	20	17.15	17.22	17.11	
15	64QAM	36	39	17.18	17.22	17.06	18.1
15	64QAM	75	0	17.15	17.11	16.98	
15	256QAM	1	0	17.36	17.28	17.28	
15	256QAM	1	37	17.32	17.36	17.33	18.1
15	256QAM	1	74	17.34	17.25	17.22	
15	256QAM	36	0	17.17	17.21	17.06	
15	256QAM	36	20	17.18	17.15	17.10	18.1



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15	256QAM	36	39	17.11	17.09	17.05	Tune-up limit (dBm)
15	256QAM	75	0	17.04	17.11	16.99	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.17	17.16	17.18	18.1
10	QPSK	1	25	17.01	17.07	17.05	
10	QPSK	1	49	17.04	17.06	16.98	
10	QPSK	25	0	17.18	17.17	17.07	18.1
10	QPSK	25	12	17.13	17.13	17.06	
10	QPSK	25	25	17.05	17.11	17.07	
10	QPSK	50	0	17.09	17.14	17.11	
10	16QAM	1	0	17.48	17.40	17.23	18.1
10	16QAM	1	25	17.35	17.47	17.36	
10	16QAM	1	49	17.45	17.28	17.39	
10	16QAM	25	0	17.14	17.19	17.02	18.1
10	16QAM	25	12	17.05	17.13	17.06	
10	16QAM	25	25	17.12	17.11	17.14	
10	16QAM	50	0	17.10	17.12	17.15	
10	64QAM	1	0	17.33	17.31	17.25	18.1
10	64QAM	1	25	17.36	17.42	17.31	
10	64QAM	1	49	17.43	17.34	17.23	
10	64QAM	25	0	17.13	17.19	17.17	18.1
10	64QAM	25	12	17.21	17.19	17.14	
10	64QAM	25	25	17.19	17.16	17.15	
10	64QAM	50	0	17.15	17.20	17.07	
10	256QAM	1	0	17.37	17.24	17.20	18.1
10	256QAM	1	25	17.27	17.29	17.32	
10	256QAM	1	49	17.41	17.29	17.15	
10	256QAM	25	0	17.18	17.19	17.07	18.1
10	256QAM	25	12	17.16	17.22	17.10	
10	256QAM	25	25	17.12	17.09	17.09	
10	256QAM	50	0	17.06	17.11	17.00	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.09	17.17	17.09	18.1
5	QPSK	1	12	16.99	17.14	17.08	
5	QPSK	1	24	17.06	17.08	16.96	
5	QPSK	12	0	17.10	17.14	17.05	18.1
5	QPSK	12	7	17.11	17.22	17.07	
5	QPSK	12	13	17.11	17.13	17.05	
5	QPSK	25	0	17.13	17.16	17.07	
5	16QAM	1	0	17.43	17.47	17.19	18.1
5	16QAM	1	12	17.41	17.52	17.37	
5	16QAM	1	24	17.43	17.27	17.41	
5	16QAM	12	0	17.10	17.21	17.12	18.1
5	16QAM	12	7	17.03	17.12	17.11	
5	16QAM	12	13	17.11	17.07	17.12	
5	16QAM	25	0	17.13	17.18	17.06	
5	64QAM	1	0	17.41	17.35	17.30	18.1
5	64QAM	1	12	17.35	17.40	17.40	
5	64QAM	1	24	17.48	17.30	17.28	
5	64QAM	12	0	17.19	17.21	17.15	18.1
5	64QAM	12	7	17.23	17.22	17.14	
5	64QAM	12	13	17.14	17.13	17.07	
5	64QAM	25	0	17.14	17.12	17.00	
5	256QAM	1	0	17.36	17.33	17.28	18.1
5	256QAM	1	12	17.29	17.30	17.35	
5	256QAM	1	24	17.35	17.27	17.24	
5	256QAM	12	0	17.11	17.21	17.12	18.1
5	256QAM	12	7	17.10	17.22	17.11	
5	256QAM	12	13	17.13	17.08	17.10	
5	256QAM	25	0	17.04	17.13	16.98	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	17.16	17.24	17.17	18.1
3	QPSK	1	8	17.00	17.06	17.04	
3	QPSK	1	14	17.04	17.07	16.95	
3	QPSK	8	0	17.10	17.24	17.02	18.1
3	QPSK	8	4	17.04	17.12	17.07	
3	QPSK	8	7	17.11	17.15	17.09	
3	QPSK	15	0	17.04	17.21	17.10	
3	16QAM	1	0	17.41	17.45	17.29	18.1
3	16QAM	1	8	17.40	17.54	17.36	
3	16QAM	1	14	17.48	17.27	17.40	
3	16QAM	8	0	17.10	17.23	17.11	18.1
3	16QAM	8	4	17.05	17.14	17.08	
3	16QAM	8	7	17.08	17.04	17.12	
3	16QAM	15	0	17.18	17.10	17.10	
3	64QAM	1	0	17.35	17.34	17.30	18.1
3	64QAM	1	8	17.40	17.43	17.39	
3	64QAM	1	14	17.41	17.29	17.28	
3	64QAM	8	0	17.16	17.19	17.17	18.1
3	64QAM	8	4	17.14	17.20	17.11	
3	64QAM	8	7	17.23	17.19	17.13	
3	64QAM	15	0	17.05	17.12	17.01	
3	256QAM	1	0	17.32	17.33	17.20	18.1
3	256QAM	1	8	17.32	17.35	17.26	
3	256QAM	1	14	17.43	17.21	17.22	
3	256QAM	8	0	17.16	17.12	17.09	18.1
3	256QAM	8	4	17.17	17.19	17.08	
3	256QAM	8	7	17.14	17.15	17.03	
3	256QAM	15	0	17.05	17.12	17.00	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.18	17.23	17.18	18.1
1.4	QPSK	1	3	17.01	17.14	17.02	
1.4	QPSK	1	5	17.00	17.11	16.94	
1.4	QPSK	3	0	17.16	17.16	17.03	
1.4	QPSK	3	1	17.06	17.13	17.11	
1.4	QPSK	3	3	17.10	17.09	17.06	
1.4	QPSK	6	0	17.11	17.17	17.11	18.1
1.4	16QAM	1	0	17.45	17.45	17.25	18.1
1.4	16QAM	1	3	17.33	17.49	17.31	
1.4	16QAM	1	5	17.47	17.34	17.40	
1.4	16QAM	3	0	17.05	17.15	17.08	
1.4	16QAM	3	1	17.04	17.09	17.03	
1.4	16QAM	3	3	17.12	17.05	17.07	
1.4	16QAM	6	0	17.16	17.17	17.11	18.1
1.4	64QAM	1	0	17.40	17.36	17.32	18.1
1.4	64QAM	1	3	17.33	17.44	17.35	
1.4	64QAM	1	5	17.48	17.26	17.20	
1.4	64QAM	3	0	17.22	17.18	17.07	
1.4	64QAM	3	1	17.23	17.18	17.16	
1.4	64QAM	3	3	17.17	17.14	17.15	
1.4	64QAM	6	0	17.15	17.20	17.04	18.1
1.4	256QAM	1	0	17.34	17.30	17.22	18.1
1.4	256QAM	1	3	17.34	17.34	17.36	
1.4	256QAM	1	5	17.38	17.25	17.17	
1.4	256QAM	3	0	17.14	17.14	17.02	
1.4	256QAM	3	1	17.09	17.14	17.07	
1.4	256QAM	3	3	17.09	17.09	17.08	
1.4	256QAM	6	0	17.07	17.15	16.99	18.1



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.36	23.29	23.13	
20	QPSK	1	49	23.05	23.25	23.11	23.6
20	QPSK	1	99	23.17	23.22	23.08	
20	QPSK	50	0	22.95	22.99	22.86	
20	QPSK	50	24	22.94	22.94	22.83	23.6
20	QPSK	50	50	22.89	22.91	22.79	
20	QPSK	100	0	22.91	22.95	22.81	
20	16QAM	1	0	22.98	23.01	22.87	23.6
20	16QAM	1	49	22.66	22.92	22.76	
20	16QAM	1	99	22.88	22.91	22.75	
20	16QAM	50	0	21.94	21.98	21.83	23
20	16QAM	50	24	21.91	21.99	21.83	
20	16QAM	50	50	21.93	21.97	21.82	
20	16QAM	100	0	21.92	21.98	21.80	23
20	64QAM	1	0	22.29	22.14	21.97	
20	64QAM	1	49	22.17	22.29	22.08	
20	64QAM	1	99	22.10	22.13	22.01	22
20	64QAM	50	0	21.01	21.01	20.94	
20	64QAM	50	24	20.94	21.00	20.89	
20	64QAM	50	50	20.99	21.05	20.87	20
20	64QAM	100	0	21.01	21.00	20.90	
20	256QAM	1	0	18.41	18.60	18.40	
20	256QAM	1	49	18.52	18.62	18.42	20
20	256QAM	1	99	18.37	18.47	18.33	
20	256QAM	50	0	18.30	18.50	18.39	20
20	256QAM	50	24	18.39	18.52	18.34	
20	256QAM	50	50	18.38	18.49	18.38	
20	256QAM	100	0	18.32	18.50	18.37	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.26	23.16	23.03	
15	QPSK	1	37	22.86	23.14	23.01	23.6
15	QPSK	1	74	23.04	23.06	22.88	
15	QPSK	36	0	22.75	22.79	22.76	23.6
15	QPSK	36	20	22.83	22.75	22.67	
15	QPSK	36	39	22.73	22.79	22.67	
15	QPSK	75	0	22.78	22.80	22.65	23.6
15	16QAM	1	0	22.83	22.84	22.73	
15	16QAM	1	37	22.51	22.77	22.64	
15	16QAM	1	74	22.76	22.78	22.58	23
15	16QAM	36	0	21.75	21.78	21.67	
15	16QAM	36	20	21.72	21.85	21.64	
15	16QAM	36	39	21.79	21.86	21.68	23
15	16QAM	75	0	21.77	21.82	21.69	
15	64QAM	1	0	22.12	22.01	21.86	
15	64QAM	1	37	22.03	22.19	21.95	22
15	64QAM	1	74	21.93	22.00	21.83	
15	64QAM	36	0	20.91	20.87	20.75	
15	64QAM	36	20	20.77	20.89	20.73	20
15	64QAM	36	39	20.88	20.87	20.76	
15	64QAM	75	0	20.89	20.88	20.78	
15	256QAM	1	0	18.26	18.43	18.20	20
15	256QAM	1	37	18.39	18.52	18.24	
15	256QAM	1	74	18.23	18.27	18.23	
15	256QAM	36	0	18.20	18.35	18.29	20
15	256QAM	36	20	18.20	18.42	18.23	



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15	256QAM	36	39	18.20	18.36	18.21	Tune-up limit (dBm)
15	256QAM	75	0	18.20	18.36	18.26	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.25	23.17	23.02	23.6
10	QPSK	1	25	22.87	23.09	22.96	
10	QPSK	1	49	23.05	23.07	22.89	
10	QPSK	25	0	22.76	22.79	22.66	23.6
10	QPSK	25	12	22.77	22.76	22.69	
10	QPSK	25	25	22.75	22.72	22.67	
10	QPSK	50	0	22.73	22.81	22.67	
10	16QAM	1	0	22.87	22.87	22.76	23.6
10	16QAM	1	25	22.52	22.77	22.56	
10	16QAM	1	49	22.68	22.80	22.63	
10	16QAM	25	0	21.84	21.79	21.72	23
10	16QAM	25	12	21.81	21.80	21.73	
10	16QAM	25	25	21.74	21.83	21.72	
10	16QAM	50	0	21.76	21.79	21.63	
10	64QAM	1	0	22.09	22.00	21.77	23
10	64QAM	1	25	21.99	22.17	21.95	
10	64QAM	1	49	21.94	21.93	21.82	
10	64QAM	25	0	20.88	20.86	20.83	22
10	64QAM	25	12	20.79	20.81	20.73	
10	64QAM	25	25	20.81	20.87	20.74	
10	64QAM	50	0	20.81	20.90	20.73	
10	256QAM	1	0	18.26	18.44	18.26	20
10	256QAM	1	25	18.33	18.48	18.32	
10	256QAM	1	49	18.26	18.35	18.13	
10	256QAM	25	0	18.18	18.30	18.24	20
10	256QAM	25	12	18.26	18.40	18.23	
10	256QAM	25	25	18.25	18.32	18.28	
10	256QAM	50	0	18.17	18.40	18.23	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.18	23.15	22.95	23.6
5	QPSK	1	12	22.85	23.08	23.00	
5	QPSK	1	24	23.06	23.12	22.95	
5	QPSK	12	0	22.85	22.87	22.70	23.6
5	QPSK	12	7	22.79	22.79	22.67	
5	QPSK	12	13	22.77	22.75	22.67	
5	QPSK	25	0	22.71	22.76	22.61	
5	16QAM	1	0	22.85	22.83	22.72	23.6
5	16QAM	1	12	22.51	22.81	22.65	
5	16QAM	1	24	22.68	22.74	22.57	
5	16QAM	12	0	21.79	21.81	21.73	23
5	16QAM	12	7	21.80	21.83	21.69	
5	16QAM	12	13	21.82	21.85	21.71	
5	16QAM	25	0	21.80	21.80	21.64	
5	64QAM	1	0	22.14	21.99	21.77	23
5	64QAM	1	12	22.01	22.12	21.97	
5	64QAM	1	24	21.91	21.94	21.82	
5	64QAM	12	0	20.87	20.86	20.80	22
5	64QAM	12	7	20.83	20.82	20.72	
5	64QAM	12	13	20.88	20.87	20.70	
5	64QAM	25	0	20.82	20.86	20.71	
5	256QAM	1	0	18.30	18.49	18.24	20
5	256QAM	1	12	18.33	18.49	18.24	
5	256QAM	1	24	18.25	18.33	18.16	
5	256QAM	12	0	18.14	18.32	18.24	20
5	256QAM	12	7	18.27	18.37	18.17	
5	256QAM	12	13	18.21	18.39	18.18	
5	256QAM	25	0	18.16	18.36	18.21	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.18	23.14	23.00	23.6
3	QPSK	1	8	22.95	23.06	22.99	
3	QPSK	1	14	23.07	23.07	22.92	
3	QPSK	8	0	22.83	22.88	22.69	23.6
3	QPSK	8	4	22.80	22.81	22.68	
3	QPSK	8	7	22.76	22.72	22.64	
3	QPSK	15	0	22.78	22.78	22.64	23.6
3	16QAM	1	0	22.87	22.84	22.73	
3	16QAM	1	8	22.52	22.74	22.57	
3	16QAM	1	14	22.68	22.77	22.56	23
3	16QAM	8	0	21.83	21.85	21.71	
3	16QAM	8	4	21.73	21.84	21.64	
3	16QAM	8	7	21.78	21.87	21.67	23
3	16QAM	15	0	21.81	21.82	21.63	
3	64QAM	1	0	22.15	21.94	21.82	
3	64QAM	1	8	22.01	22.14	21.92	22
3	64QAM	1	14	21.90	22.03	21.89	
3	64QAM	8	0	20.84	20.87	20.84	
3	64QAM	8	4	20.78	20.81	20.70	20
3	64QAM	8	7	20.83	20.86	20.73	
3	64QAM	15	0	20.83	20.84	20.76	
3	256QAM	1	0	18.31	18.43	18.29	20
3	256QAM	1	8	18.40	18.49	18.30	
3	256QAM	1	14	18.26	18.32	18.23	
3	256QAM	8	0	18.16	18.35	18.28	20
3	256QAM	8	4	18.24	18.42	18.23	
3	256QAM	8	7	18.18	18.38	18.23	
3	256QAM	15	0	18.14	18.33	18.23	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	23.6
1.4	QPSK	1	0	23.21	23.09	22.96	
1.4	QPSK	1	3	22.95	23.11	23.01	
1.4	QPSK	1	5	23.05	23.02	22.96	23.6
1.4	QPSK	3	0	22.83	22.88	22.68	
1.4	QPSK	3	1	22.78	22.78	22.71	
1.4	QPSK	3	3	22.69	22.73	22.60	23.6
1.4	QPSK	6	0	22.74	22.85	22.69	
1.4	16QAM	1	0	22.86	22.81	22.74	
1.4	16QAM	1	3	22.56	22.78	22.61	23
1.4	16QAM	1	5	22.77	22.77	22.59	
1.4	16QAM	3	0	21.77	21.84	21.63	
1.4	16QAM	3	1	21.76	21.88	21.63	23
1.4	16QAM	3	3	21.80	21.82	21.66	
1.4	16QAM	6	0	21.79	21.86	21.60	
1.4	64QAM	1	0	22.10	21.98	21.79	22
1.4	64QAM	1	3	21.99	22.10	21.88	
1.4	64QAM	1	5	21.90	21.94	21.87	
1.4	64QAM	3	0	21.18	21.17	21.04	20
1.4	64QAM	3	1	21.06	21.20	21.00	
1.4	64QAM	3	3	21.12	21.24	21.06	
1.4	64QAM	6	0	20.81	20.86	20.79	20
1.4	256QAM	1	0	18.27	18.48	18.30	
1.4	256QAM	1	3	18.34	18.51	18.23	
1.4	256QAM	1	5	18.27	18.34	18.19	20
1.4	256QAM	3	0	18.11	18.33	18.25	
1.4	256QAM	3	1	18.24	18.41	18.19	
1.4	256QAM	3	3	18.27	18.31	18.22	20
1.4	256QAM	6	0	18.20	18.37	18.24	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.24	19.35	19.29	19.6
20	QPSK	1	49	19.07	19.11	19.11	
20	QPSK	1	99	19.07	19.08	19.05	
20	QPSK	50	0	19.18	19.20	19.14	19.6
20	QPSK	50	24	19.13	19.18	19.13	
20	QPSK	50	50	19.14	19.14	19.12	
20	QPSK	100	0	19.13	19.17	19.17	
20	16QAM	1	0	19.29	19.28	19.31	19.6
20	16QAM	1	49	19.11	19.23	19.24	
20	16QAM	1	99	19.31	19.30	19.33	
20	16QAM	50	0	19.14	19.19	19.14	19.6
20	16QAM	50	24	19.11	19.13	19.14	
20	16QAM	50	50	19.14	19.10	19.16	
20	16QAM	100	0	19.17	19.14	19.17	
20	64QAM	1	0	19.27	19.35	19.30	19.6
20	64QAM	1	49	19.25	19.25	19.25	
20	64QAM	1	99	19.30	19.30	19.31	
20	64QAM	50	0	19.22	19.22	19.19	19.6
20	64QAM	50	24	19.23	19.24	19.21	
20	64QAM	50	50	19.22	19.18	19.18	
20	64QAM	100	0	19.14	19.17	19.10	
20	256QAM	1	0	19.19	19.20	19.19	19.6
20	256QAM	1	49	19.25	19.24	19.28	
20	256QAM	1	99	19.31	19.08	19.11	
20	256QAM	50	0	19.07	19.00	19.00	19.6
20	256QAM	50	24	19.01	19.04	19.04	
20	256QAM	50	50	19.06	19.02	18.99	
20	256QAM	100	0	18.93	18.96	18.95	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.08	19.12	19.15	19.6
15	QPSK	1	37	18.90	18.93	18.96	
15	QPSK	1	74	18.91	18.88	18.93	
15	QPSK	36	0	19.06	19.08	18.97	19.6
15	QPSK	36	20	19.00	18.98	18.98	
15	QPSK	36	39	19.01	18.96	18.98	
15	QPSK	75	0	18.95	18.97	19.00	
15	16QAM	1	0	19.19	19.16	19.19	19.6
15	16QAM	1	37	19.01	19.13	19.08	
15	16QAM	1	74	19.13	19.10	19.20	
15	16QAM	36	0	18.97	19.02	19.01	19.6
15	16QAM	36	20	18.93	18.94	19.03	
15	16QAM	36	39	18.97	18.92	18.98	
15	16QAM	75	0	18.99	18.94	18.98	
15	64QAM	1	0	19.22	19.25	19.16	19.6
15	64QAM	1	37	19.22	19.30	19.27	
15	64QAM	1	74	19.20	19.17	19.14	
15	64QAM	36	0	19.12	19.03	19.05	19.6
15	64QAM	36	20	19.03	19.14	19.01	
15	64QAM	36	39	19.07	19.06	19.02	
15	64QAM	75	0	19.00	18.99	18.93	
15	256QAM	1	0	19.03	19.03	19.03	19.6
15	256QAM	1	37	19.11	19.08	19.14	
15	256QAM	1	74	19.21	18.92	18.93	
15	256QAM	36	0	18.89	18.88	18.88	19.6
15	256QAM	36	20	18.91	18.92	18.84	



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15	256QAM	36	39	18.92	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.77	18.84	18.81	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.06	19.08	19.18	19.6
10	QPSK	1	25	18.97	18.98	18.94	
10	QPSK	1	49	18.89	18.88	18.93	
10	QPSK	25	0	19.05	19.02	18.95	19.6
10	QPSK	25	12	18.95	19.04	18.99	
10	QPSK	25	25	18.96	19.01	18.93	
10	QPSK	50	0	18.98	19.03	19.05	
10	16QAM	1	0	19.12	19.17	19.19	19.6
10	16QAM	1	25	19.00	19.06	19.04	
10	16QAM	1	49	19.19	19.14	19.18	
10	16QAM	25	0	18.97	19.02	18.97	19.6
10	16QAM	25	12	18.92	18.94	18.96	
10	16QAM	25	25	19.01	18.91	18.96	
10	16QAM	50	0	19.02	19.01	18.97	
10	64QAM	1	0	19.27	19.15	19.23	19.6
10	64QAM	1	25	19.27	19.26	19.30	
10	64QAM	1	49	19.11	19.17	19.15	
10	64QAM	25	0	19.09	19.03	19.06	19.6
10	64QAM	25	12	19.06	19.11	19.07	
10	64QAM	25	25	19.04	19.07	19.07	
10	64QAM	50	0	18.95	19.07	19.00	
10	256QAM	1	0	18.99	19.09	19.05	19.6
10	256QAM	1	25	19.13	19.10	19.18	
10	256QAM	1	49	19.16	18.93	18.97	
10	256QAM	25	0	18.88	18.80	18.81	19.6
10	256QAM	25	12	18.88	18.91	18.92	
10	256QAM	25	25	18.86	18.88	18.82	
10	256QAM	50	0	18.78	18.86	18.79	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.12	19.13	19.15	19.6
5	QPSK	1	12	18.88	18.95	18.95	
5	QPSK	1	24	18.91	18.88	18.85	
5	QPSK	12	0	19.00	19.09	18.99	19.6
5	QPSK	12	7	18.99	19.04	18.96	
5	QPSK	12	13	18.98	18.94	18.95	
5	QPSK	25	0	19.02	19.07	18.99	
5	16QAM	1	0	19.11	19.10	19.21	19.6
5	16QAM	1	12	18.99	19.08	19.07	
5	16QAM	1	24	19.19	19.11	19.21	
5	16QAM	12	0	18.96	19.05	18.98	19.6
5	16QAM	12	7	18.96	18.95	19.04	
5	16QAM	12	13	18.99	19.00	19.05	
5	16QAM	25	0	19.02	19.00	18.99	
5	64QAM	1	0	19.27	19.19	19.21	19.6
5	64QAM	1	12	19.24	19.21	19.32	
5	64QAM	1	24	19.12	19.15	19.14	
5	64QAM	12	0	19.11	19.02	19.09	19.6
5	64QAM	12	7	19.12	19.11	19.02	
5	64QAM	12	13	19.12	19.08	19.05	
5	64QAM	25	0	19.00	19.06	18.93	
5	256QAM	1	0	19.06	19.05	19.05	19.6
5	256QAM	1	12	19.13	19.10	19.10	
5	256QAM	1	24	19.21	18.89	18.93	
5	256QAM	12	0	18.92	18.84	18.88	19.6
5	256QAM	12	7	18.89	18.87	18.89	
5	256QAM	12	13	18.95	18.86	18.80	
5	256QAM	25	0	18.74	18.80	18.78	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.11	19.11	19.19	19.6
3	QPSK	1	8	18.87	18.95	18.96	
3	QPSK	1	14	18.96	18.92	18.92	
3	QPSK	8	0	19.07	19.04	18.95	19.6
3	QPSK	8	4	19.00	19.02	19.03	
3	QPSK	8	7	18.97	19.02	18.99	
3	QPSK	15	0	19.00	19.01	18.99	
3	16QAM	1	0	19.19	19.17	19.19	19.6
3	16QAM	1	8	18.99	19.03	19.05	
3	16QAM	1	14	19.20	19.20	19.18	
3	16QAM	8	0	19.02	19.09	19.03	19.6
3	16QAM	8	4	18.97	18.98	18.94	
3	16QAM	8	7	19.02	18.91	19.03	
3	16QAM	15	0	19.04	19.01	19.01	
3	64QAM	1	0	19.30	19.17	19.16	19.6
3	64QAM	1	8	19.26	19.23	19.25	
3	64QAM	1	14	19.16	19.18	19.13	
3	64QAM	8	0	19.08	19.03	19.07	19.6
3	64QAM	8	4	19.13	19.11	19.04	
3	64QAM	8	7	19.05	19.00	19.04	
3	64QAM	15	0	18.96	19.02	18.99	
3	256QAM	1	0	19.05	19.07	19.04	19.6
3	256QAM	1	8	19.07	19.04	19.17	
3	256QAM	1	14	19.12	18.96	18.91	
3	256QAM	8	0	18.90	18.88	18.90	19.6
3	256QAM	8	4	18.91	18.90	18.93	
3	256QAM	8	7	18.95	18.89	18.85	
3	256QAM	15	0	18.78	18.81	18.83	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.11	19.14	19.15	19.6
1.4	QPSK	1	3	18.88	18.97	18.93	
1.4	QPSK	1	5	18.96	18.98	18.86	
1.4	QPSK	3	0	19.00	19.00	19.00	
1.4	QPSK	3	1	18.95	19.03	18.97	
1.4	QPSK	3	3	19.02	18.96	18.97	
1.4	QPSK	6	0	18.97	19.06	18.99	19.6
1.4	16QAM	1	0	19.13	19.12	19.20	19.6
1.4	16QAM	1	3	18.98	19.04	19.11	
1.4	16QAM	1	5	19.16	19.18	19.19	
1.4	16QAM	3	0	19.03	19.05	19.01	
1.4	16QAM	3	1	18.92	18.95	18.95	
1.4	16QAM	3	3	19.00	18.96	19.04	
1.4	16QAM	6	0	19.07	18.99	19.03	19.6
1.4	64QAM	1	0	19.32	19.15	19.16	19.6
1.4	64QAM	1	3	19.29	19.25	19.33	
1.4	64QAM	1	5	19.19	19.20	19.16	
1.4	64QAM	3	0	19.11	19.10	19.07	
1.4	64QAM	3	1	19.13	19.12	19.05	
1.4	64QAM	3	3	19.09	18.98	19.07	
1.4	64QAM	6	0	19.02	19.03	18.95	19.6
1.4	256QAM	1	0	19.04	19.10	18.99	19.6
1.4	256QAM	1	3	19.09	19.14	19.13	
1.4	256QAM	1	5	19.17	18.97	18.96	
1.4	256QAM	3	0	18.90	18.82	18.83	
1.4	256QAM	3	1	18.83	18.86	18.93	
1.4	256QAM	3	3	18.88	18.90	18.84	
1.4	256QAM	6	0	18.82	18.84	18.78	19.6

**<LTE Band 2_Ant 5_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	25
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	24
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	24
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	25
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	24
15	QPSK	36	20	22.51	22.74	22.59	
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	24
15	16QAM	1	0	22.92	23.08	22.85	
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	23
15	16QAM	36	0	21.67	21.71	21.63	
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	23
15	16QAM	75	0	21.61	21.74	21.59	
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	23
15	64QAM	1	74	22.01	21.83	21.82	
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	22
15	64QAM	36	39	20.72	20.65	20.66	
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	20
15	256QAM	1	37	18.63	18.76	18.69	
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	20
15	256QAM	36	20	18.62	18.75	18.77	



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	25
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	24
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	24
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	23
10	16QAM	25	0	21.66	21.63	21.58	
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	23
10	64QAM	1	0	21.91	21.87	21.98	
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	22
10	64QAM	25	0	20.73	20.86	20.67	
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	20
10	256QAM	1	0	18.86	18.73	18.90	
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	25
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	24
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	24
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	25
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	24
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	24
3	16QAM	1	0	22.98	23.17	23.02	
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	23
3	16QAM	8	0	21.53	21.66	21.67	
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	23
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	
3	64QAM	1	8	22.00	21.87	21.91	22
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	
3	64QAM	8	4	20.76	20.71	20.74	20
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	25
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	24
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	24
1.4	16QAM	1	0	22.56	22.69	22.64	
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	23
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	23
1.4	16QAM	6	0	21.53	21.71	21.69	
1.4	64QAM	1	0	21.59	21.65	21.48	
1.4	64QAM	1	3	21.49	21.68	21.40	22
1.4	64QAM	1	5	21.69	21.62	21.75	
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	20
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	20
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	
1.4	256QAM	6	0	18.71	18.76	18.69	20



<LTE Band 2_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.35	18.42	18.37	19.6
20	QPSK	1	49	18.18	18.25	18.19	
20	QPSK	1	99	18.18	18.22	18.13	
20	QPSK	50	0	18.29	18.34	18.22	19.6
20	QPSK	50	24	18.24	18.32	18.21	
20	QPSK	50	50	18.25	18.28	18.20	
20	QPSK	100	0	18.24	18.31	18.25	
20	16QAM	1	0	18.40	18.42	18.39	19.6
20	16QAM	1	49	18.22	18.37	18.32	
20	16QAM	1	99	18.42	18.44	18.41	
20	16QAM	50	0	18.25	18.33	18.22	19.6
20	16QAM	50	24	18.22	18.27	18.22	
20	16QAM	50	50	18.25	18.24	18.24	
20	16QAM	100	0	18.28	18.28	18.25	
20	64QAM	1	0	18.53	18.49	18.44	19.6
20	64QAM	1	49	18.51	18.54	18.51	
20	64QAM	1	99	18.41	18.44	18.39	
20	64QAM	50	0	18.33	18.36	18.27	19.6
20	64QAM	50	24	18.34	18.38	18.29	
20	64QAM	50	50	18.33	18.32	18.26	
20	64QAM	100	0	18.25	18.31	18.18	
20	256QAM	1	0	18.30	18.34	18.27	19.6
20	256QAM	1	49	18.36	18.38	18.36	
20	256QAM	1	99	18.42	18.22	18.19	
20	256QAM	50	0	18.18	18.14	18.08	19.6
20	256QAM	50	24	18.12	18.18	18.12	
20	256QAM	50	50	18.17	18.16	18.07	
20	256QAM	100	0	18.04	18.10	18.03	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.11	18.15	18.15	19.6
15	QPSK	1	37	18.00	18.14	18.06	
15	QPSK	1	74	18.05	18.06	17.99	
15	QPSK	36	0	18.19	18.22	18.10	19.6
15	QPSK	36	20	18.04	18.17	18.09	
15	QPSK	36	39	18.10	18.09	18.05	
15	QPSK	75	0	18.13	18.19	18.09	19.6
15	16QAM	1	0	18.39	18.39	18.22	
15	16QAM	1	37	18.40	18.55	18.34	
15	16QAM	1	74	18.47	18.33	18.46	19.6
15	16QAM	36	0	18.11	18.20	18.05	
15	16QAM	36	20	18.10	18.09	18.11	
15	16QAM	36	39	18.13	18.14	18.13	19.6
15	16QAM	75	0	18.13	18.09	18.06	
15	64QAM	1	0	18.40	18.36	18.29	
15	64QAM	1	37	18.31	18.35	18.40	19.6
15	64QAM	1	74	18.42	18.28	18.26	
15	64QAM	36	0	18.21	18.25	18.12	
15	64QAM	36	20	18.15	18.22	18.11	19.6
15	64QAM	36	39	18.18	18.22	18.06	
15	64QAM	75	0	18.15	18.11	17.98	
15	256QAM	1	0	18.36	18.28	18.28	19.6
15	256QAM	1	37	18.32	18.36	18.33	
15	256QAM	1	74	18.34	18.25	18.22	
15	256QAM	36	0	18.17	18.21	18.06	19.6
15	256QAM	36	20	18.18	18.15	18.10	



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15	256QAM	36	39	18.11	18.09	18.05	
15	256QAM	75	0	18.04	18.11	17.99	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.17	18.16	18.18	19.6
10	QPSK	1	25	18.01	18.07	18.05	
10	QPSK	1	49	18.04	18.06	17.98	
10	QPSK	25	0	18.18	18.17	18.07	19.6
10	QPSK	25	12	18.13	18.13	18.06	
10	QPSK	25	25	18.05	18.11	18.07	
10	QPSK	50	0	18.09	18.14	18.11	
10	16QAM	1	0	18.48	18.40	18.23	19.6
10	16QAM	1	25	18.35	18.47	18.36	
10	16QAM	1	49	18.45	18.28	18.39	
10	16QAM	25	0	18.14	18.19	18.02	19.6
10	16QAM	25	12	18.05	18.13	18.06	
10	16QAM	25	25	18.12	18.11	18.14	
10	16QAM	50	0	18.10	18.12	18.15	
10	64QAM	1	0	18.33	18.31	18.25	19.6
10	64QAM	1	25	18.36	18.42	18.31	
10	64QAM	1	49	18.43	18.34	18.23	
10	64QAM	25	0	18.13	18.19	18.17	19.6
10	64QAM	25	12	18.21	18.19	18.14	
10	64QAM	25	25	18.19	18.16	18.15	
10	64QAM	50	0	18.15	18.20	18.07	
10	256QAM	1	0	18.37	18.24	18.20	19.6
10	256QAM	1	25	18.27	18.29	18.32	
10	256QAM	1	49	18.41	18.29	18.15	
10	256QAM	25	0	18.18	18.19	18.07	19.6
10	256QAM	25	12	18.16	18.22	18.10	
10	256QAM	25	25	18.12	18.09	18.09	
10	256QAM	50	0	18.06	18.11	18.00	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.09	18.17	18.09	19.6
5	QPSK	1	12	17.99	18.14	18.08	
5	QPSK	1	24	18.06	18.08	17.96	
5	QPSK	12	0	18.10	18.14	18.05	19.6
5	QPSK	12	7	18.11	18.22	18.07	
5	QPSK	12	13	18.11	18.13	18.05	
5	QPSK	25	0	18.13	18.16	18.07	
5	16QAM	1	0	18.43	18.47	18.19	19.6
5	16QAM	1	12	18.41	18.52	18.37	
5	16QAM	1	24	18.43	18.27	18.41	
5	16QAM	12	0	18.10	18.21	18.12	19.6
5	16QAM	12	7	18.03	18.12	18.11	
5	16QAM	12	13	18.11	18.07	18.12	
5	16QAM	25	0	18.13	18.18	18.06	
5	64QAM	1	0	18.41	18.35	18.30	19.6
5	64QAM	1	12	18.35	18.40	18.40	
5	64QAM	1	24	18.48	18.30	18.28	
5	64QAM	12	0	18.19	18.21	18.15	19.6
5	64QAM	12	7	18.23	18.22	18.14	
5	64QAM	12	13	18.14	18.13	18.07	
5	64QAM	25	0	18.14	18.12	18.00	
5	256QAM	1	0	18.36	18.33	18.28	19.6
5	256QAM	1	12	18.29	18.30	18.35	
5	256QAM	1	24	18.35	18.27	18.24	
5	256QAM	12	0	18.11	18.21	18.12	19.6
5	256QAM	12	7	18.10	18.22	18.11	
5	256QAM	12	13	18.13	18.08	18.10	
5	256QAM	25	0	18.04	18.13	17.98	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	18.16	18.24	18.17	19.6
3	QPSK	1	8	18.00	18.06	18.04	
3	QPSK	1	14	18.04	18.07	17.95	
3	QPSK	8	0	18.10	18.24	18.02	19.6
3	QPSK	8	4	18.04	18.12	18.07	
3	QPSK	8	7	18.11	18.15	18.09	
3	QPSK	15	0	18.04	18.21	18.10	
3	16QAM	1	0	18.41	18.45	18.29	19.6
3	16QAM	1	8	18.40	18.54	18.36	
3	16QAM	1	14	18.48	18.27	18.40	
3	16QAM	8	0	18.10	18.23	18.11	19.6
3	16QAM	8	4	18.05	18.14	18.08	
3	16QAM	8	7	18.08	18.04	18.12	
3	16QAM	15	0	18.18	18.10	18.10	
3	64QAM	1	0	18.35	18.34	18.30	19.6
3	64QAM	1	8	18.40	18.43	18.39	
3	64QAM	1	14	18.41	18.29	18.28	
3	64QAM	8	0	18.16	18.19	18.17	19.6
3	64QAM	8	4	18.14	18.20	18.11	
3	64QAM	8	7	18.23	18.19	18.13	
3	64QAM	15	0	18.05	18.12	18.01	
3	256QAM	1	0	18.32	18.33	18.20	19.6
3	256QAM	1	8	18.32	18.35	18.26	
3	256QAM	1	14	18.43	18.21	18.22	
3	256QAM	8	0	18.16	18.12	18.09	19.6
3	256QAM	8	4	18.17	18.19	18.08	
3	256QAM	8	7	18.14	18.15	18.03	
3	256QAM	15	0	18.05	18.12	18.00	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.18	18.23	18.18	19.6
1.4	QPSK	1	3	18.01	18.14	18.02	
1.4	QPSK	1	5	18.00	18.11	17.94	
1.4	QPSK	3	0	18.16	18.16	18.03	
1.4	QPSK	3	1	18.06	18.13	18.11	
1.4	QPSK	3	3	18.10	18.09	18.06	
1.4	QPSK	6	0	18.11	18.17	18.11	19.6
1.4	16QAM	1	0	18.45	18.45	18.25	19.6
1.4	16QAM	1	3	18.33	18.49	18.31	
1.4	16QAM	1	5	18.47	18.34	18.40	
1.4	16QAM	3	0	18.05	18.15	18.08	
1.4	16QAM	3	1	18.04	18.09	18.03	
1.4	16QAM	3	3	18.12	18.05	18.07	19.6
1.4	16QAM	6	0	18.16	18.17	18.11	
1.4	64QAM	1	0	18.40	18.36	18.32	
1.4	64QAM	1	3	18.33	18.44	18.35	
1.4	64QAM	1	5	18.48	18.26	18.20	19.6
1.4	64QAM	3	0	18.22	18.18	18.07	
1.4	64QAM	3	1	18.23	18.18	18.16	
1.4	64QAM	3	3	18.17	18.14	18.15	
1.4	64QAM	6	0	18.15	18.20	18.04	19.6
1.4	256QAM	1	0	18.34	18.30	18.22	19.6
1.4	256QAM	1	3	18.34	18.34	18.36	
1.4	256QAM	1	5	18.38	18.25	18.17	
1.4	256QAM	3	0	18.14	18.14	18.02	
1.4	256QAM	3	1	18.09	18.14	18.07	
1.4	256QAM	3	3	18.09	18.09	18.08	19.6
1.4	256QAM	6	0	18.07	18.15	17.99	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.36	23.29	23.13	
20	QPSK	1	49	23.05	23.25	23.11	24.3
20	QPSK	1	99	23.17	23.22	23.08	
20	QPSK	50	0	22.95	22.99	22.86	
20	QPSK	50	24	22.94	22.94	22.83	24
20	QPSK	50	50	22.89	22.91	22.79	
20	QPSK	100	0	22.91	22.95	22.81	
20	16QAM	1	0	22.98	23.01	22.87	24
20	16QAM	1	49	22.66	22.92	22.76	
20	16QAM	1	99	22.88	22.91	22.75	
20	16QAM	50	0	21.94	21.98	21.83	23
20	16QAM	50	24	21.91	21.99	21.83	
20	16QAM	50	50	21.93	21.97	21.82	
20	16QAM	100	0	21.92	21.98	21.80	23
20	64QAM	1	0	22.29	22.14	21.97	
20	64QAM	1	49	22.17	22.29	22.08	
20	64QAM	1	99	22.10	22.13	22.01	22
20	64QAM	50	0	21.01	21.01	20.94	
20	64QAM	50	24	20.94	21.00	20.89	
20	64QAM	50	50	20.99	21.05	20.87	20
20	64QAM	100	0	21.01	21.00	20.90	
20	256QAM	1	0	18.41	18.60	18.40	
20	256QAM	1	49	18.52	18.62	18.42	20
20	256QAM	1	99	18.37	18.47	18.33	
20	256QAM	50	0	18.30	18.50	18.39	20
20	256QAM	50	24	18.39	18.52	18.34	
20	256QAM	50	50	18.38	18.49	18.38	
20	256QAM	100	0	18.32	18.50	18.37	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.26	23.16	23.03	24.3
15	QPSK	1	37	22.86	23.14	23.01	
15	QPSK	1	74	23.04	23.06	22.88	
15	QPSK	36	0	22.75	22.79	22.76	24
15	QPSK	36	20	22.83	22.75	22.67	
15	QPSK	36	39	22.73	22.79	22.67	
15	QPSK	75	0	22.78	22.80	22.65	24
15	16QAM	1	0	22.83	22.84	22.73	
15	16QAM	1	37	22.51	22.77	22.64	
15	16QAM	1	74	22.76	22.78	22.58	23
15	16QAM	36	0	21.75	21.78	21.67	
15	16QAM	36	20	21.72	21.85	21.64	
15	16QAM	36	39	21.79	21.86	21.68	23
15	16QAM	75	0	21.77	21.82	21.69	
15	64QAM	1	0	22.12	22.01	21.86	
15	64QAM	1	37	22.03	22.19	21.95	22
15	64QAM	1	74	21.93	22.00	21.83	
15	64QAM	36	0	20.91	20.87	20.75	
15	64QAM	36	20	20.77	20.89	20.73	20
15	64QAM	36	39	20.88	20.87	20.76	
15	64QAM	75	0	20.89	20.88	20.78	
15	256QAM	1	0	18.26	18.43	18.20	20
15	256QAM	1	37	18.39	18.52	18.24	
15	256QAM	1	74	18.23	18.27	18.23	
15	256QAM	36	0	18.20	18.35	18.29	20
15	256QAM	36	20	18.20	18.42	18.23	



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15	256QAM	36	39	18.20	18.36	18.21	Tune-up limit (dBm)
15	256QAM	75	0	18.20	18.36	18.26	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.25	23.17	23.02	24.3
10	QPSK	1	25	22.87	23.09	22.96	
10	QPSK	1	49	23.05	23.07	22.89	
10	QPSK	25	0	22.76	22.79	22.66	24
10	QPSK	25	12	22.77	22.76	22.69	
10	QPSK	25	25	22.75	22.72	22.67	
10	QPSK	50	0	22.73	22.81	22.67	
10	16QAM	1	0	22.87	22.87	22.76	24
10	16QAM	1	25	22.52	22.77	22.56	
10	16QAM	1	49	22.68	22.80	22.63	
10	16QAM	25	0	21.84	21.79	21.72	23
10	16QAM	25	12	21.81	21.80	21.73	
10	16QAM	25	25	21.74	21.83	21.72	
10	16QAM	50	0	21.76	21.79	21.63	
10	64QAM	1	0	22.09	22.00	21.77	23
10	64QAM	1	25	21.99	22.17	21.95	
10	64QAM	1	49	21.94	21.93	21.82	
10	64QAM	25	0	20.88	20.86	20.83	22
10	64QAM	25	12	20.79	20.81	20.73	
10	64QAM	25	25	20.81	20.87	20.74	
10	64QAM	50	0	20.81	20.90	20.73	
10	256QAM	1	0	18.26	18.44	18.26	20
10	256QAM	1	25	18.33	18.48	18.32	
10	256QAM	1	49	18.26	18.35	18.13	
10	256QAM	25	0	18.18	18.30	18.24	20
10	256QAM	25	12	18.26	18.40	18.23	
10	256QAM	25	25	18.25	18.32	18.28	
10	256QAM	50	0	18.17	18.40	18.23	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.18	23.15	22.95	24.3
5	QPSK	1	12	22.85	23.08	23.00	
5	QPSK	1	24	23.06	23.12	22.95	
5	QPSK	12	0	22.85	22.87	22.70	24
5	QPSK	12	7	22.79	22.79	22.67	
5	QPSK	12	13	22.77	22.75	22.67	
5	QPSK	25	0	22.71	22.76	22.61	
5	16QAM	1	0	22.85	22.83	22.72	24
5	16QAM	1	12	22.51	22.81	22.65	
5	16QAM	1	24	22.68	22.74	22.57	
5	16QAM	12	0	21.79	21.81	21.73	23
5	16QAM	12	7	21.80	21.83	21.69	
5	16QAM	12	13	21.82	21.85	21.71	
5	16QAM	25	0	21.80	21.80	21.64	
5	64QAM	1	0	22.14	21.99	21.77	23
5	64QAM	1	12	22.01	22.12	21.97	
5	64QAM	1	24	21.91	21.94	21.82	
5	64QAM	12	0	20.87	20.86	20.80	22
5	64QAM	12	7	20.83	20.82	20.72	
5	64QAM	12	13	20.88	20.87	20.70	
5	64QAM	25	0	20.82	20.86	20.71	
5	256QAM	1	0	18.30	18.49	18.24	20
5	256QAM	1	12	18.33	18.49	18.24	
5	256QAM	1	24	18.25	18.33	18.16	
5	256QAM	12	0	18.14	18.32	18.24	20
5	256QAM	12	7	18.27	18.37	18.17	
5	256QAM	12	13	18.21	18.39	18.18	
5	256QAM	25	0	18.16	18.36	18.21	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.18	23.14	23.00	24.3
3	QPSK	1	8	22.95	23.06	22.99	
3	QPSK	1	14	23.07	23.07	22.92	
3	QPSK	8	0	22.83	22.88	22.69	24
3	QPSK	8	4	22.80	22.81	22.68	
3	QPSK	8	7	22.76	22.72	22.64	
3	QPSK	15	0	22.78	22.78	22.64	24
3	16QAM	1	0	22.87	22.84	22.73	
3	16QAM	1	8	22.52	22.74	22.57	
3	16QAM	1	14	22.68	22.77	22.56	23
3	16QAM	8	0	21.83	21.85	21.71	
3	16QAM	8	4	21.73	21.84	21.64	
3	16QAM	8	7	21.78	21.87	21.67	23
3	16QAM	15	0	21.81	21.82	21.63	
3	64QAM	1	0	22.15	21.94	21.82	
3	64QAM	1	8	22.01	22.14	21.92	22
3	64QAM	1	14	21.90	22.03	21.89	
3	64QAM	8	0	20.84	20.87	20.84	
3	64QAM	8	4	20.78	20.81	20.70	20
3	64QAM	8	7	20.83	20.86	20.73	
3	64QAM	15	0	20.83	20.84	20.76	
3	256QAM	1	0	18.31	18.43	18.29	20
3	256QAM	1	8	18.40	18.49	18.30	
3	256QAM	1	14	18.26	18.32	18.23	
3	256QAM	8	0	18.16	18.35	18.28	20
3	256QAM	8	4	18.24	18.42	18.23	
3	256QAM	8	7	18.18	18.38	18.23	
3	256QAM	15	0	18.14	18.33	18.23	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.21	23.09	22.96	24.3
1.4	QPSK	1	3	22.95	23.11	23.01	
1.4	QPSK	1	5	23.05	23.02	22.96	
1.4	QPSK	3	0	22.83	22.88	22.68	24
1.4	QPSK	3	1	22.78	22.78	22.71	
1.4	QPSK	3	3	22.69	22.73	22.60	
1.4	QPSK	6	0	22.74	22.85	22.69	24
1.4	16QAM	1	0	22.86	22.81	22.74	
1.4	16QAM	1	3	22.56	22.78	22.61	
1.4	16QAM	1	5	22.77	22.77	22.59	23
1.4	16QAM	3	0	21.77	21.84	21.63	
1.4	16QAM	3	1	21.76	21.88	21.63	
1.4	16QAM	3	3	21.80	21.82	21.66	23
1.4	16QAM	6	0	21.79	21.86	21.60	
1.4	64QAM	1	0	22.10	21.98	21.79	
1.4	64QAM	1	3	21.99	22.10	21.88	22
1.4	64QAM	1	5	21.90	21.94	21.87	
1.4	64QAM	3	0	21.18	21.17	21.04	
1.4	64QAM	3	1	21.06	21.20	21.00	20
1.4	64QAM	3	3	21.12	21.24	21.06	
1.4	64QAM	6	0	20.81	20.86	20.79	
1.4	256QAM	1	0	18.27	18.48	18.30	20
1.4	256QAM	1	3	18.34	18.51	18.23	
1.4	256QAM	1	5	18.27	18.34	18.19	
1.4	256QAM	3	0	18.11	18.33	18.25	20
1.4	256QAM	3	1	18.24	18.41	18.19	
1.4	256QAM	3	3	18.27	18.31	18.22	
1.4	256QAM	6	0	18.20	18.37	18.24	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.24	19.35	19.29	20.3
20	QPSK	1	49	19.07	19.11	19.11	
20	QPSK	1	99	19.07	19.08	19.05	
20	QPSK	50	0	19.18	19.20	19.14	20.3
20	QPSK	50	24	19.13	19.18	19.13	
20	QPSK	50	50	19.14	19.14	19.12	
20	QPSK	100	0	19.13	19.17	19.17	
20	16QAM	1	0	19.29	19.28	19.31	20.3
20	16QAM	1	49	19.11	19.23	19.24	
20	16QAM	1	99	19.31	19.30	19.33	
20	16QAM	50	0	19.14	19.19	19.14	20.3
20	16QAM	50	24	19.11	19.13	19.14	
20	16QAM	50	50	19.14	19.10	19.16	
20	16QAM	100	0	19.17	19.14	19.17	
20	64QAM	1	0	19.27	19.35	19.30	20.3
20	64QAM	1	49	19.25	19.25	19.25	
20	64QAM	1	99	19.30	19.30	19.31	
20	64QAM	50	0	19.22	19.22	19.19	20.3
20	64QAM	50	24	19.23	19.24	19.21	
20	64QAM	50	50	19.22	19.18	19.18	
20	64QAM	100	0	19.14	19.17	19.10	
20	256QAM	1	0	19.19	19.20	19.19	20
20	256QAM	1	49	19.25	19.24	19.28	
20	256QAM	1	99	19.31	19.08	19.11	
20	256QAM	50	0	19.07	19.00	19.00	20
20	256QAM	50	24	19.01	19.04	19.04	
20	256QAM	50	50	19.06	19.02	18.99	
20	256QAM	100	0	18.93	18.96	18.95	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.08	19.12	19.15	20.3
15	QPSK	1	37	18.90	18.93	18.96	
15	QPSK	1	74	18.91	18.88	18.93	
15	QPSK	36	0	19.06	19.08	18.97	20.3
15	QPSK	36	20	19.00	18.98	18.98	
15	QPSK	36	39	19.01	18.96	18.98	
15	QPSK	75	0	18.95	18.97	19.00	
15	16QAM	1	0	19.19	19.16	19.19	20.3
15	16QAM	1	37	19.01	19.13	19.08	
15	16QAM	1	74	19.13	19.10	19.20	
15	16QAM	36	0	18.97	19.02	19.01	20.3
15	16QAM	36	20	18.93	18.94	19.03	
15	16QAM	36	39	18.97	18.92	18.98	
15	16QAM	75	0	18.99	18.94	18.98	
15	64QAM	1	0	19.22	19.25	19.16	20.3
15	64QAM	1	37	19.22	19.30	19.27	
15	64QAM	1	74	19.20	19.17	19.14	
15	64QAM	36	0	19.12	19.03	19.05	20.3
15	64QAM	36	20	19.03	19.14	19.01	
15	64QAM	36	39	19.07	19.06	19.02	
15	64QAM	75	0	19.00	18.99	18.93	
15	256QAM	1	0	19.03	19.03	19.03	20
15	256QAM	1	37	19.11	19.08	19.14	
15	256QAM	1	74	19.21	18.92	18.93	
15	256QAM	36	0	18.89	18.88	18.88	20
15	256QAM	36	20	18.91	18.92	18.84	



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15	256QAM	36	39	18.92	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.77	18.84	18.81	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.06	19.08	19.18	20.3
10	QPSK	1	25	18.97	18.98	18.94	
10	QPSK	1	49	18.89	18.88	18.93	
10	QPSK	25	0	19.05	19.02	18.95	20.3
10	QPSK	25	12	18.95	19.04	18.99	
10	QPSK	25	25	18.96	19.01	18.93	
10	QPSK	50	0	18.98	19.03	19.05	
10	16QAM	1	0	19.12	19.17	19.19	20.3
10	16QAM	1	25	19.00	19.06	19.04	
10	16QAM	1	49	19.19	19.14	19.18	
10	16QAM	25	0	18.97	19.02	18.97	20.3
10	16QAM	25	12	18.92	18.94	18.96	
10	16QAM	25	25	19.01	18.91	18.96	
10	16QAM	50	0	19.02	19.01	18.97	
10	64QAM	1	0	19.27	19.15	19.23	20.3
10	64QAM	1	25	19.27	19.26	19.30	
10	64QAM	1	49	19.11	19.17	19.15	
10	64QAM	25	0	19.09	19.03	19.06	20.3
10	64QAM	25	12	19.06	19.11	19.07	
10	64QAM	25	25	19.04	19.07	19.07	
10	64QAM	50	0	18.95	19.07	19.00	
10	256QAM	1	0	18.99	19.09	19.05	20
10	256QAM	1	25	19.13	19.10	19.18	
10	256QAM	1	49	19.16	18.93	18.97	
10	256QAM	25	0	18.88	18.80	18.81	20
10	256QAM	25	12	18.88	18.91	18.92	
10	256QAM	25	25	18.86	18.88	18.82	
10	256QAM	50	0	18.78	18.86	18.79	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.12	19.13	19.15	20.3
5	QPSK	1	12	18.88	18.95	18.95	
5	QPSK	1	24	18.91	18.88	18.85	
5	QPSK	12	0	19.00	19.09	18.99	20.3
5	QPSK	12	7	18.99	19.04	18.96	
5	QPSK	12	13	18.98	18.94	18.95	
5	QPSK	25	0	19.02	19.07	18.99	
5	16QAM	1	0	19.11	19.10	19.21	20.3
5	16QAM	1	12	18.99	19.08	19.07	
5	16QAM	1	24	19.19	19.11	19.21	
5	16QAM	12	0	18.96	19.05	18.98	20.3
5	16QAM	12	7	18.96	18.95	19.04	
5	16QAM	12	13	18.99	19.00	19.05	
5	16QAM	25	0	19.02	19.00	18.99	
5	64QAM	1	0	19.27	19.19	19.21	20.3
5	64QAM	1	12	19.24	19.21	19.32	
5	64QAM	1	24	19.12	19.15	19.14	
5	64QAM	12	0	19.11	19.02	19.09	20.3
5	64QAM	12	7	19.12	19.11	19.02	
5	64QAM	12	13	19.12	19.08	19.05	
5	64QAM	25	0	19.00	19.06	18.93	
5	256QAM	1	0	19.06	19.05	19.05	20
5	256QAM	1	12	19.13	19.10	19.10	
5	256QAM	1	24	19.21	18.89	18.93	
5	256QAM	12	0	18.92	18.84	18.88	20
5	256QAM	12	7	18.89	18.87	18.89	
5	256QAM	12	13	18.95	18.86	18.80	
5	256QAM	25	0	18.74	18.80	18.78	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.11	19.11	19.19	20.3
3	QPSK	1	8	18.87	18.95	18.96	
3	QPSK	1	14	18.96	18.92	18.92	
3	QPSK	8	0	19.07	19.04	18.95	20.3
3	QPSK	8	4	19.00	19.02	19.03	
3	QPSK	8	7	18.97	19.02	18.99	
3	QPSK	15	0	19.00	19.01	18.99	
3	16QAM	1	0	19.19	19.17	19.19	20.3
3	16QAM	1	8	18.99	19.03	19.05	
3	16QAM	1	14	19.20	19.20	19.18	
3	16QAM	8	0	19.02	19.09	19.03	20.3
3	16QAM	8	4	18.97	18.98	18.94	
3	16QAM	8	7	19.02	18.91	19.03	
3	16QAM	15	0	19.04	19.01	19.01	
3	64QAM	1	0	19.30	19.17	19.16	20.3
3	64QAM	1	8	19.26	19.23	19.25	
3	64QAM	1	14	19.16	19.18	19.13	
3	64QAM	8	0	19.08	19.03	19.07	20.3
3	64QAM	8	4	19.13	19.11	19.04	
3	64QAM	8	7	19.05	19.00	19.04	
3	64QAM	15	0	18.96	19.02	18.99	
3	256QAM	1	0	19.05	19.07	19.04	20
3	256QAM	1	8	19.07	19.04	19.17	
3	256QAM	1	14	19.12	18.96	18.91	
3	256QAM	8	0	18.90	18.88	18.90	20
3	256QAM	8	4	18.91	18.90	18.93	
3	256QAM	8	7	18.95	18.89	18.85	
3	256QAM	15	0	18.78	18.81	18.83	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.11	19.14	19.15	20.3
1.4	QPSK	1	3	18.88	18.97	18.93	
1.4	QPSK	1	5	18.96	18.98	18.86	
1.4	QPSK	3	0	19.00	19.00	19.00	
1.4	QPSK	3	1	18.95	19.03	18.97	
1.4	QPSK	3	3	19.02	18.96	18.97	
1.4	QPSK	6	0	18.97	19.06	18.99	20.3
1.4	16QAM	1	0	19.13	19.12	19.20	20.3
1.4	16QAM	1	3	18.98	19.04	19.11	
1.4	16QAM	1	5	19.16	19.18	19.19	
1.4	16QAM	3	0	19.03	19.05	19.01	
1.4	16QAM	3	1	18.92	18.95	18.95	
1.4	16QAM	3	3	19.00	18.96	19.04	
1.4	16QAM	6	0	19.07	18.99	19.03	20.3
1.4	64QAM	1	0	19.32	19.15	19.16	20.3
1.4	64QAM	1	3	19.29	19.25	19.33	
1.4	64QAM	1	5	19.19	19.20	19.16	
1.4	64QAM	3	0	19.11	19.10	19.07	
1.4	64QAM	3	1	19.13	19.12	19.05	
1.4	64QAM	3	3	19.09	18.98	19.07	
1.4	64QAM	6	0	19.02	19.03	18.95	20.3
1.4	256QAM	1	0	19.04	19.10	18.99	20
1.4	256QAM	1	3	19.09	19.14	19.13	
1.4	256QAM	1	5	19.17	18.97	18.96	
1.4	256QAM	3	0	18.90	18.82	18.83	
1.4	256QAM	3	1	18.83	18.86	18.93	
1.4	256QAM	3	3	18.88	18.90	18.84	
1.4	256QAM	6	0	18.82	18.84	18.78	20

**<LTE Band 2_Ant 5_Index 5>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	25
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	24
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	24
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	25
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	24
15	QPSK	36	20	22.51	22.74	22.59	
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	24
15	16QAM	1	0	22.92	23.08	22.85	
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	23
15	16QAM	36	0	21.67	21.71	21.63	
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	23
15	16QAM	75	0	21.61	21.74	21.59	
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	23
15	64QAM	1	74	22.01	21.83	21.82	
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	22
15	64QAM	36	39	20.72	20.65	20.66	
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	20
15	256QAM	1	37	18.63	18.76	18.69	
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	20
15	256QAM	36	20	18.62	18.75	18.77	



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	25
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	24
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	24
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	25
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	24
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	24
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	25
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	24
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	
3	16QAM	1	0	22.98	23.17	23.02	24
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	
3	16QAM	8	0	21.53	21.66	21.67	23
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	23
3	64QAM	1	8	22.00	21.87	21.91	
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	22
3	64QAM	8	4	20.76	20.71	20.74	
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	25
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	24
1.4	16QAM	1	0	22.56	22.69	22.64	24
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	23
1.4	16QAM	6	0	21.53	21.71	21.69	
1.4	64QAM	1	0	21.59	21.65	21.48	
1.4	64QAM	1	3	21.49	21.68	21.40	
1.4	64QAM	1	5	21.69	21.62	21.75	23
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	22
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	20
1.4	256QAM	6	0	18.71	18.76	18.69	



<LTE Band 2_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.35	18.42	18.37	
20	QPSK	1	49	18.18	18.25	18.19	18.9
20	QPSK	1	99	18.18	18.22	18.13	
20	QPSK	50	0	18.29	18.34	18.22	
20	QPSK	50	24	18.24	18.32	18.21	18.9
20	QPSK	50	50	18.25	18.28	18.20	
20	QPSK	100	0	18.24	18.31	18.25	
20	16QAM	1	0	18.40	18.42	18.39	18.9
20	16QAM	1	49	18.22	18.37	18.32	
20	16QAM	1	99	18.42	18.44	18.41	
20	16QAM	50	0	18.25	18.33	18.22	18.9
20	16QAM	50	24	18.22	18.27	18.22	
20	16QAM	50	50	18.25	18.24	18.24	
20	16QAM	100	0	18.28	18.28	18.25	18.9
20	64QAM	1	0	18.53	18.49	18.44	
20	64QAM	1	49	18.51	18.54	18.51	
20	64QAM	1	99	18.41	18.44	18.39	18.9
20	64QAM	50	0	18.33	18.36	18.27	
20	64QAM	50	24	18.34	18.38	18.29	
20	64QAM	50	50	18.33	18.32	18.26	18.9
20	64QAM	100	0	18.25	18.31	18.18	
20	256QAM	1	0	18.30	18.34	18.27	
20	256QAM	1	49	18.36	18.38	18.36	18.9
20	256QAM	1	99	18.42	18.22	18.19	
20	256QAM	50	0	18.18	18.14	18.08	
20	256QAM	50	24	18.12	18.18	18.12	18.9
20	256QAM	50	50	18.17	18.16	18.07	
20	256QAM	100	0	18.04	18.10	18.03	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.11	18.15	18.15	
15	QPSK	1	37	18.00	18.14	18.06	18.9
15	QPSK	1	74	18.05	18.06	17.99	
15	QPSK	36	0	18.19	18.22	18.10	
15	QPSK	36	20	18.04	18.17	18.09	18.9
15	QPSK	36	39	18.10	18.09	18.05	
15	QPSK	75	0	18.13	18.19	18.09	
15	16QAM	1	0	18.39	18.39	18.22	18.9
15	16QAM	1	37	18.40	18.55	18.34	
15	16QAM	1	74	18.47	18.33	18.46	
15	16QAM	36	0	18.11	18.20	18.05	18.9
15	16QAM	36	20	18.10	18.09	18.11	
15	16QAM	36	39	18.13	18.14	18.13	
15	16QAM	75	0	18.13	18.09	18.06	18.9
15	64QAM	1	0	18.40	18.36	18.29	
15	64QAM	1	37	18.31	18.35	18.40	
15	64QAM	1	74	18.42	18.28	18.26	18.9
15	64QAM	36	0	18.21	18.25	18.12	
15	64QAM	36	20	18.15	18.22	18.11	
15	64QAM	36	39	18.18	18.22	18.06	18.9
15	64QAM	75	0	18.15	18.11	17.98	
15	256QAM	1	0	18.36	18.28	18.28	
15	256QAM	1	37	18.32	18.36	18.33	18.9
15	256QAM	1	74	18.34	18.25	18.22	
15	256QAM	36	0	18.17	18.21	18.06	
15	256QAM	36	20	18.18	18.15	18.10	18.9



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15	256QAM	36	39	18.11	18.09	18.05	
15	256QAM	75	0	18.04	18.11	17.99	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.17	18.16	18.18	18.9
10	QPSK	1	25	18.01	18.07	18.05	
10	QPSK	1	49	18.04	18.06	17.98	
10	QPSK	25	0	18.18	18.17	18.07	18.9
10	QPSK	25	12	18.13	18.13	18.06	
10	QPSK	25	25	18.05	18.11	18.07	
10	QPSK	50	0	18.09	18.14	18.11	
10	16QAM	1	0	18.48	18.40	18.23	18.9
10	16QAM	1	25	18.35	18.47	18.36	
10	16QAM	1	49	18.45	18.28	18.39	
10	16QAM	25	0	18.14	18.19	18.02	18.9
10	16QAM	25	12	18.05	18.13	18.06	
10	16QAM	25	25	18.12	18.11	18.14	
10	16QAM	50	0	18.10	18.12	18.15	
10	64QAM	1	0	18.33	18.31	18.25	18.9
10	64QAM	1	25	18.36	18.42	18.31	
10	64QAM	1	49	18.43	18.34	18.23	
10	64QAM	25	0	18.13	18.19	18.17	18.9
10	64QAM	25	12	18.21	18.19	18.14	
10	64QAM	25	25	18.19	18.16	18.15	
10	64QAM	50	0	18.15	18.20	18.07	
10	256QAM	1	0	18.37	18.24	18.20	18.9
10	256QAM	1	25	18.27	18.29	18.32	
10	256QAM	1	49	18.41	18.29	18.15	
10	256QAM	25	0	18.18	18.19	18.07	18.9
10	256QAM	25	12	18.16	18.22	18.10	
10	256QAM	25	25	18.12	18.09	18.09	
10	256QAM	50	0	18.06	18.11	18.00	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.09	18.17	18.09	18.9
5	QPSK	1	12	17.99	18.14	18.08	
5	QPSK	1	24	18.06	18.08	17.96	
5	QPSK	12	0	18.10	18.14	18.05	18.9
5	QPSK	12	7	18.11	18.22	18.07	
5	QPSK	12	13	18.11	18.13	18.05	
5	QPSK	25	0	18.13	18.16	18.07	
5	16QAM	1	0	18.43	18.47	18.19	18.9
5	16QAM	1	12	18.41	18.52	18.37	
5	16QAM	1	24	18.43	18.27	18.41	
5	16QAM	12	0	18.10	18.21	18.12	18.9
5	16QAM	12	7	18.03	18.12	18.11	
5	16QAM	12	13	18.11	18.07	18.12	
5	16QAM	25	0	18.13	18.18	18.06	
5	64QAM	1	0	18.41	18.35	18.30	18.9
5	64QAM	1	12	18.35	18.40	18.40	
5	64QAM	1	24	18.48	18.30	18.28	
5	64QAM	12	0	18.19	18.21	18.15	18.9
5	64QAM	12	7	18.23	18.22	18.14	
5	64QAM	12	13	18.14	18.13	18.07	
5	64QAM	25	0	18.14	18.12	18.00	
5	256QAM	1	0	18.36	18.33	18.28	18.9
5	256QAM	1	12	18.29	18.30	18.35	
5	256QAM	1	24	18.35	18.27	18.24	
5	256QAM	12	0	18.11	18.21	18.12	18.9
5	256QAM	12	7	18.10	18.22	18.11	
5	256QAM	12	13	18.13	18.08	18.10	
5	256QAM	25	0	18.04	18.13	17.98	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	18.16	18.24	18.17	18.9
3	QPSK	1	8	18.00	18.06	18.04	
3	QPSK	1	14	18.04	18.07	17.95	
3	QPSK	8	0	18.10	18.24	18.02	18.9
3	QPSK	8	4	18.04	18.12	18.07	
3	QPSK	8	7	18.11	18.15	18.09	
3	QPSK	15	0	18.04	18.21	18.10	
3	16QAM	1	0	18.41	18.45	18.29	18.9
3	16QAM	1	8	18.40	18.54	18.36	
3	16QAM	1	14	18.48	18.27	18.40	
3	16QAM	8	0	18.10	18.23	18.11	18.9
3	16QAM	8	4	18.05	18.14	18.08	
3	16QAM	8	7	18.08	18.04	18.12	
3	16QAM	15	0	18.18	18.10	18.10	
3	64QAM	1	0	18.35	18.34	18.30	18.9
3	64QAM	1	8	18.40	18.43	18.39	
3	64QAM	1	14	18.41	18.29	18.28	
3	64QAM	8	0	18.16	18.19	18.17	18.9
3	64QAM	8	4	18.14	18.20	18.11	
3	64QAM	8	7	18.23	18.19	18.13	
3	64QAM	15	0	18.05	18.12	18.01	
3	256QAM	1	0	18.32	18.33	18.20	18.9
3	256QAM	1	8	18.32	18.35	18.26	
3	256QAM	1	14	18.43	18.21	18.22	
3	256QAM	8	0	18.16	18.12	18.09	18.9
3	256QAM	8	4	18.17	18.19	18.08	
3	256QAM	8	7	18.14	18.15	18.03	
3	256QAM	15	0	18.05	18.12	18.00	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.18	18.23	18.18	18.9
1.4	QPSK	1	3	18.01	18.14	18.02	
1.4	QPSK	1	5	18.00	18.11	17.94	
1.4	QPSK	3	0	18.16	18.16	18.03	
1.4	QPSK	3	1	18.06	18.13	18.11	
1.4	QPSK	3	3	18.10	18.09	18.06	
1.4	QPSK	6	0	18.11	18.17	18.11	18.9
1.4	16QAM	1	0	18.45	18.45	18.25	18.9
1.4	16QAM	1	3	18.33	18.49	18.31	
1.4	16QAM	1	5	18.47	18.34	18.40	
1.4	16QAM	3	0	18.05	18.15	18.08	
1.4	16QAM	3	1	18.04	18.09	18.03	
1.4	16QAM	3	3	18.12	18.05	18.07	
1.4	16QAM	6	0	18.16	18.17	18.11	18.9
1.4	64QAM	1	0	18.40	18.36	18.32	18.9
1.4	64QAM	1	3	18.33	18.44	18.35	
1.4	64QAM	1	5	18.48	18.26	18.20	
1.4	64QAM	3	0	18.22	18.18	18.07	
1.4	64QAM	3	1	18.23	18.18	18.16	
1.4	64QAM	3	3	18.17	18.14	18.15	
1.4	64QAM	6	0	18.15	18.20	18.04	18.9
1.4	256QAM	1	0	18.34	18.30	18.22	18.9
1.4	256QAM	1	3	18.34	18.34	18.36	
1.4	256QAM	1	5	18.38	18.25	18.17	
1.4	256QAM	3	0	18.14	18.14	18.02	
1.4	256QAM	3	1	18.09	18.14	18.07	
1.4	256QAM	3	3	18.09	18.09	18.08	
1.4	256QAM	6	0	18.07	18.15	17.99	18.9



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.36	23.29	23.13	
20	QPSK	1	49	23.05	23.25	23.11	23.6
20	QPSK	1	99	23.17	23.22	23.08	
20	QPSK	50	0	22.95	22.99	22.86	
20	QPSK	50	24	22.94	22.94	22.83	23.6
20	QPSK	50	50	22.89	22.91	22.79	
20	QPSK	100	0	22.91	22.95	22.81	
20	16QAM	1	0	22.98	23.01	22.87	23.6
20	16QAM	1	49	22.66	22.92	22.76	
20	16QAM	1	99	22.88	22.91	22.75	
20	16QAM	50	0	21.94	21.98	21.83	23
20	16QAM	50	24	21.91	21.99	21.83	
20	16QAM	50	50	21.93	21.97	21.82	
20	16QAM	100	0	21.92	21.98	21.80	23
20	64QAM	1	0	22.29	22.14	21.97	
20	64QAM	1	49	22.17	22.29	22.08	
20	64QAM	1	99	22.10	22.13	22.01	22
20	64QAM	50	0	21.01	21.01	20.94	
20	64QAM	50	24	20.94	21.00	20.89	
20	64QAM	50	50	20.99	21.05	20.87	20
20	64QAM	100	0	21.01	21.00	20.90	
20	256QAM	1	0	18.41	18.60	18.40	
20	256QAM	1	49	18.52	18.62	18.42	20
20	256QAM	1	99	18.37	18.47	18.33	
20	256QAM	50	0	18.30	18.50	18.39	20
20	256QAM	50	24	18.39	18.52	18.34	
20	256QAM	50	50	18.38	18.49	18.38	
20	256QAM	100	0	18.32	18.50	18.37	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.26	23.16	23.03	
15	QPSK	1	37	22.86	23.14	23.01	23.6
15	QPSK	1	74	23.04	23.06	22.88	
15	QPSK	36	0	22.75	22.79	22.76	23.6
15	QPSK	36	20	22.83	22.75	22.67	
15	QPSK	36	39	22.73	22.79	22.67	
15	QPSK	75	0	22.78	22.80	22.65	23.6
15	16QAM	1	0	22.83	22.84	22.73	
15	16QAM	1	37	22.51	22.77	22.64	
15	16QAM	1	74	22.76	22.78	22.58	23
15	16QAM	36	0	21.75	21.78	21.67	
15	16QAM	36	20	21.72	21.85	21.64	
15	16QAM	36	39	21.79	21.86	21.68	23
15	16QAM	75	0	21.77	21.82	21.69	
15	64QAM	1	0	22.12	22.01	21.86	
15	64QAM	1	37	22.03	22.19	21.95	22
15	64QAM	1	74	21.93	22.00	21.83	
15	64QAM	36	0	20.91	20.87	20.75	
15	64QAM	36	20	20.77	20.89	20.73	20
15	64QAM	36	39	20.88	20.87	20.76	
15	64QAM	75	0	20.89	20.88	20.78	
15	256QAM	1	0	18.26	18.43	18.20	20
15	256QAM	1	37	18.39	18.52	18.24	
15	256QAM	1	74	18.23	18.27	18.23	
15	256QAM	36	0	18.20	18.35	18.29	20
15	256QAM	36	20	18.20	18.42	18.23	



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15	256QAM	36	39	18.20	18.36	18.21	Tune-up limit (dBm)
15	256QAM	75	0	18.20	18.36	18.26	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.25	23.17	23.02	23.6
10	QPSK	1	25	22.87	23.09	22.96	
10	QPSK	1	49	23.05	23.07	22.89	
10	QPSK	25	0	22.76	22.79	22.66	23.6
10	QPSK	25	12	22.77	22.76	22.69	
10	QPSK	25	25	22.75	22.72	22.67	
10	QPSK	50	0	22.73	22.81	22.67	
10	16QAM	1	0	22.87	22.87	22.76	23.6
10	16QAM	1	25	22.52	22.77	22.56	
10	16QAM	1	49	22.68	22.80	22.63	
10	16QAM	25	0	21.84	21.79	21.72	23
10	16QAM	25	12	21.81	21.80	21.73	
10	16QAM	25	25	21.74	21.83	21.72	
10	16QAM	50	0	21.76	21.79	21.63	
10	64QAM	1	0	22.09	22.00	21.77	23
10	64QAM	1	25	21.99	22.17	21.95	
10	64QAM	1	49	21.94	21.93	21.82	
10	64QAM	25	0	20.88	20.86	20.83	22
10	64QAM	25	12	20.79	20.81	20.73	
10	64QAM	25	25	20.81	20.87	20.74	
10	64QAM	50	0	20.81	20.90	20.73	
10	256QAM	1	0	18.26	18.44	18.26	20
10	256QAM	1	25	18.33	18.48	18.32	
10	256QAM	1	49	18.26	18.35	18.13	
10	256QAM	25	0	18.18	18.30	18.24	20
10	256QAM	25	12	18.26	18.40	18.23	
10	256QAM	25	25	18.25	18.32	18.28	
10	256QAM	50	0	18.17	18.40	18.23	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.18	23.15	22.95	23.6
5	QPSK	1	12	22.85	23.08	23.00	
5	QPSK	1	24	23.06	23.12	22.95	
5	QPSK	12	0	22.85	22.87	22.70	23.6
5	QPSK	12	7	22.79	22.79	22.67	
5	QPSK	12	13	22.77	22.75	22.67	
5	QPSK	25	0	22.71	22.76	22.61	
5	16QAM	1	0	22.85	22.83	22.72	23.6
5	16QAM	1	12	22.51	22.81	22.65	
5	16QAM	1	24	22.68	22.74	22.57	
5	16QAM	12	0	21.79	21.81	21.73	23
5	16QAM	12	7	21.80	21.83	21.69	
5	16QAM	12	13	21.82	21.85	21.71	
5	16QAM	25	0	21.80	21.80	21.64	
5	64QAM	1	0	22.14	21.99	21.77	23
5	64QAM	1	12	22.01	22.12	21.97	
5	64QAM	1	24	21.91	21.94	21.82	
5	64QAM	12	0	20.87	20.86	20.80	22
5	64QAM	12	7	20.83	20.82	20.72	
5	64QAM	12	13	20.88	20.87	20.70	
5	64QAM	25	0	20.82	20.86	20.71	
5	256QAM	1	0	18.30	18.49	18.24	20
5	256QAM	1	12	18.33	18.49	18.24	
5	256QAM	1	24	18.25	18.33	18.16	
5	256QAM	12	0	18.14	18.32	18.24	20
5	256QAM	12	7	18.27	18.37	18.17	
5	256QAM	12	13	18.21	18.39	18.18	
5	256QAM	25	0	18.16	18.36	18.21	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.18	23.14	23.00	23.6
3	QPSK	1	8	22.95	23.06	22.99	
3	QPSK	1	14	23.07	23.07	22.92	
3	QPSK	8	0	22.83	22.88	22.69	23.6
3	QPSK	8	4	22.80	22.81	22.68	
3	QPSK	8	7	22.76	22.72	22.64	
3	QPSK	15	0	22.78	22.78	22.64	23.6
3	16QAM	1	0	22.87	22.84	22.73	
3	16QAM	1	8	22.52	22.74	22.57	
3	16QAM	1	14	22.68	22.77	22.56	23
3	16QAM	8	0	21.83	21.85	21.71	
3	16QAM	8	4	21.73	21.84	21.64	
3	16QAM	8	7	21.78	21.87	21.67	23
3	16QAM	15	0	21.81	21.82	21.63	
3	64QAM	1	0	22.15	21.94	21.82	
3	64QAM	1	8	22.01	22.14	21.92	22
3	64QAM	1	14	21.90	22.03	21.89	
3	64QAM	8	0	20.84	20.87	20.84	
3	64QAM	8	4	20.78	20.81	20.70	20
3	64QAM	8	7	20.83	20.86	20.73	
3	64QAM	15	0	20.83	20.84	20.76	
3	256QAM	1	0	18.31	18.43	18.29	20
3	256QAM	1	8	18.40	18.49	18.30	
3	256QAM	1	14	18.26	18.32	18.23	
3	256QAM	8	0	18.16	18.35	18.28	20
3	256QAM	8	4	18.24	18.42	18.23	
3	256QAM	8	7	18.18	18.38	18.23	
3	256QAM	15	0	18.14	18.33	18.23	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.21	23.09	22.96	23.6
1.4	QPSK	1	3	22.95	23.11	23.01	
1.4	QPSK	1	5	23.05	23.02	22.96	
1.4	QPSK	3	0	22.83	22.88	22.68	23.6
1.4	QPSK	3	1	22.78	22.78	22.71	
1.4	QPSK	3	3	22.69	22.73	22.60	
1.4	QPSK	6	0	22.74	22.85	22.69	23.6
1.4	16QAM	1	0	22.86	22.81	22.74	23.6
1.4	16QAM	1	3	22.56	22.78	22.61	
1.4	16QAM	1	5	22.77	22.77	22.59	
1.4	16QAM	3	0	21.77	21.84	21.63	23
1.4	16QAM	3	1	21.76	21.88	21.63	
1.4	16QAM	3	3	21.80	21.82	21.66	
1.4	16QAM	6	0	21.79	21.86	21.60	23
1.4	64QAM	1	0	22.10	21.98	21.79	23
1.4	64QAM	1	3	21.99	22.10	21.88	
1.4	64QAM	1	5	21.90	21.94	21.87	
1.4	64QAM	3	0	21.18	21.17	21.04	22
1.4	64QAM	3	1	21.06	21.20	21.00	
1.4	64QAM	3	3	21.12	21.24	21.06	
1.4	64QAM	6	0	20.81	20.86	20.79	22
1.4	256QAM	1	0	18.27	18.48	18.30	20
1.4	256QAM	1	3	18.34	18.51	18.23	
1.4	256QAM	1	5	18.27	18.34	18.19	
1.4	256QAM	3	0	18.11	18.33	18.25	20
1.4	256QAM	3	1	18.24	18.41	18.19	
1.4	256QAM	3	3	18.27	18.31	18.22	
1.4	256QAM	6	0	18.20	18.37	18.24	20



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.24	19.35	19.29	19.6
20	QPSK	1	49	19.07	19.11	19.11	
20	QPSK	1	99	19.07	19.08	19.05	
20	QPSK	50	0	19.18	19.20	19.14	19.6
20	QPSK	50	24	19.13	19.18	19.13	
20	QPSK	50	50	19.14	19.14	19.12	
20	QPSK	100	0	19.13	19.17	19.17	
20	16QAM	1	0	19.29	19.28	19.31	19.6
20	16QAM	1	49	19.11	19.23	19.24	
20	16QAM	1	99	19.31	19.30	19.33	
20	16QAM	50	0	19.14	19.19	19.14	19.6
20	16QAM	50	24	19.11	19.13	19.14	
20	16QAM	50	50	19.14	19.10	19.16	
20	16QAM	100	0	19.17	19.14	19.17	
20	64QAM	1	0	19.27	19.35	19.30	19.6
20	64QAM	1	49	19.25	19.25	19.25	
20	64QAM	1	99	19.30	19.30	19.31	
20	64QAM	50	0	19.22	19.22	19.19	19.6
20	64QAM	50	24	19.23	19.24	19.21	
20	64QAM	50	50	19.22	19.18	19.18	
20	64QAM	100	0	19.14	19.17	19.10	
20	256QAM	1	0	19.19	19.20	19.19	19.6
20	256QAM	1	49	19.25	19.24	19.28	
20	256QAM	1	99	19.31	19.08	19.11	
20	256QAM	50	0	19.07	19.00	19.00	19.6
20	256QAM	50	24	19.01	19.04	19.04	
20	256QAM	50	50	19.06	19.02	18.99	
20	256QAM	100	0	18.93	18.96	18.95	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.08	19.12	19.15	19.6
15	QPSK	1	37	18.90	18.93	18.96	
15	QPSK	1	74	18.91	18.88	18.93	
15	QPSK	36	0	19.06	19.08	18.97	19.6
15	QPSK	36	20	19.00	18.98	18.98	
15	QPSK	36	39	19.01	18.96	18.98	
15	QPSK	75	0	18.95	18.97	19.00	
15	16QAM	1	0	19.19	19.16	19.19	19.6
15	16QAM	1	37	19.01	19.13	19.08	
15	16QAM	1	74	19.13	19.10	19.20	
15	16QAM	36	0	18.97	19.02	19.01	19.6
15	16QAM	36	20	18.93	18.94	19.03	
15	16QAM	36	39	18.97	18.92	18.98	
15	16QAM	75	0	18.99	18.94	18.98	
15	64QAM	1	0	19.22	19.25	19.16	19.6
15	64QAM	1	37	19.22	19.30	19.27	
15	64QAM	1	74	19.20	19.17	19.14	
15	64QAM	36	0	19.12	19.03	19.05	19.6
15	64QAM	36	20	19.03	19.14	19.01	
15	64QAM	36	39	19.07	19.06	19.02	
15	64QAM	75	0	19.00	18.99	18.93	
15	256QAM	1	0	19.03	19.03	19.03	19.6
15	256QAM	1	37	19.11	19.08	19.14	
15	256QAM	1	74	19.21	18.92	18.93	
15	256QAM	36	0	18.89	18.88	18.88	19.6
15	256QAM	36	20	18.91	18.92	18.84	



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15	256QAM	36	39	18.92	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.77	18.84	18.81	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.06	19.08	19.18	19.6
10	QPSK	1	25	18.97	18.98	18.94	
10	QPSK	1	49	18.89	18.88	18.93	
10	QPSK	25	0	19.05	19.02	18.95	19.6
10	QPSK	25	12	18.95	19.04	18.99	
10	QPSK	25	25	18.96	19.01	18.93	
10	QPSK	50	0	18.98	19.03	19.05	
10	16QAM	1	0	19.12	19.17	19.19	19.6
10	16QAM	1	25	19.00	19.06	19.04	
10	16QAM	1	49	19.19	19.14	19.18	
10	16QAM	25	0	18.97	19.02	18.97	19.6
10	16QAM	25	12	18.92	18.94	18.96	
10	16QAM	25	25	19.01	18.91	18.96	
10	16QAM	50	0	19.02	19.01	18.97	
10	64QAM	1	0	19.27	19.15	19.23	19.6
10	64QAM	1	25	19.27	19.26	19.30	
10	64QAM	1	49	19.11	19.17	19.15	
10	64QAM	25	0	19.09	19.03	19.06	19.6
10	64QAM	25	12	19.06	19.11	19.07	
10	64QAM	25	25	19.04	19.07	19.07	
10	64QAM	50	0	18.95	19.07	19.00	
10	256QAM	1	0	18.99	19.09	19.05	19.6
10	256QAM	1	25	19.13	19.10	19.18	
10	256QAM	1	49	19.16	18.93	18.97	
10	256QAM	25	0	18.88	18.80	18.81	19.6
10	256QAM	25	12	18.88	18.91	18.92	
10	256QAM	25	25	18.86	18.88	18.82	
10	256QAM	50	0	18.78	18.86	18.79	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.12	19.13	19.15	19.6
5	QPSK	1	12	18.88	18.95	18.95	
5	QPSK	1	24	18.91	18.88	18.85	
5	QPSK	12	0	19.00	19.09	18.99	19.6
5	QPSK	12	7	18.99	19.04	18.96	
5	QPSK	12	13	18.98	18.94	18.95	
5	QPSK	25	0	19.02	19.07	18.99	
5	16QAM	1	0	19.11	19.10	19.21	19.6
5	16QAM	1	12	18.99	19.08	19.07	
5	16QAM	1	24	19.19	19.11	19.21	
5	16QAM	12	0	18.96	19.05	18.98	19.6
5	16QAM	12	7	18.96	18.95	19.04	
5	16QAM	12	13	18.99	19.00	19.05	
5	16QAM	25	0	19.02	19.00	18.99	
5	64QAM	1	0	19.27	19.19	19.21	19.6
5	64QAM	1	12	19.24	19.21	19.32	
5	64QAM	1	24	19.12	19.15	19.14	
5	64QAM	12	0	19.11	19.02	19.09	19.6
5	64QAM	12	7	19.12	19.11	19.02	
5	64QAM	12	13	19.12	19.08	19.05	
5	64QAM	25	0	19.00	19.06	18.93	
5	256QAM	1	0	19.06	19.05	19.05	19.6
5	256QAM	1	12	19.13	19.10	19.10	
5	256QAM	1	24	19.21	18.89	18.93	
5	256QAM	12	0	18.92	18.84	18.88	19.6
5	256QAM	12	7	18.89	18.87	18.89	
5	256QAM	12	13	18.95	18.86	18.80	
5	256QAM	25	0	18.74	18.80	18.78	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.11	19.11	19.19	19.6
3	QPSK	1	8	18.87	18.95	18.96	
3	QPSK	1	14	18.96	18.92	18.92	
3	QPSK	8	0	19.07	19.04	18.95	19.6
3	QPSK	8	4	19.00	19.02	19.03	
3	QPSK	8	7	18.97	19.02	18.99	
3	QPSK	15	0	19.00	19.01	18.99	
3	16QAM	1	0	19.19	19.17	19.19	19.6
3	16QAM	1	8	18.99	19.03	19.05	
3	16QAM	1	14	19.20	19.20	19.18	
3	16QAM	8	0	19.02	19.09	19.03	19.6
3	16QAM	8	4	18.97	18.98	18.94	
3	16QAM	8	7	19.02	18.91	19.03	
3	16QAM	15	0	19.04	19.01	19.01	
3	64QAM	1	0	19.30	19.17	19.16	19.6
3	64QAM	1	8	19.26	19.23	19.25	
3	64QAM	1	14	19.16	19.18	19.13	
3	64QAM	8	0	19.08	19.03	19.07	19.6
3	64QAM	8	4	19.13	19.11	19.04	
3	64QAM	8	7	19.05	19.00	19.04	
3	64QAM	15	0	18.96	19.02	18.99	
3	256QAM	1	0	19.05	19.07	19.04	19.6
3	256QAM	1	8	19.07	19.04	19.17	
3	256QAM	1	14	19.12	18.96	18.91	
3	256QAM	8	0	18.90	18.88	18.90	19.6
3	256QAM	8	4	18.91	18.90	18.93	
3	256QAM	8	7	18.95	18.89	18.85	
3	256QAM	15	0	18.78	18.81	18.83	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.11	19.14	19.15	19.6
1.4	QPSK	1	3	18.88	18.97	18.93	
1.4	QPSK	1	5	18.96	18.98	18.86	
1.4	QPSK	3	0	19.00	19.00	19.00	
1.4	QPSK	3	1	18.95	19.03	18.97	
1.4	QPSK	3	3	19.02	18.96	18.97	
1.4	QPSK	6	0	18.97	19.06	18.99	19.6
1.4	16QAM	1	0	19.13	19.12	19.20	19.6
1.4	16QAM	1	3	18.98	19.04	19.11	
1.4	16QAM	1	5	19.16	19.18	19.19	
1.4	16QAM	3	0	19.03	19.05	19.01	
1.4	16QAM	3	1	18.92	18.95	18.95	
1.4	16QAM	3	3	19.00	18.96	19.04	
1.4	16QAM	6	0	19.07	18.99	19.03	19.6
1.4	64QAM	1	0	19.32	19.15	19.16	19.6
1.4	64QAM	1	3	19.29	19.25	19.33	
1.4	64QAM	1	5	19.19	19.20	19.16	
1.4	64QAM	3	0	19.11	19.10	19.07	
1.4	64QAM	3	1	19.13	19.12	19.05	
1.4	64QAM	3	3	19.09	18.98	19.07	
1.4	64QAM	6	0	19.02	19.03	18.95	19.6
1.4	256QAM	1	0	19.04	19.10	18.99	19.6
1.4	256QAM	1	3	19.09	19.14	19.13	
1.4	256QAM	1	5	19.17	18.97	18.96	
1.4	256QAM	3	0	18.90	18.82	18.83	
1.4	256QAM	3	1	18.83	18.86	18.93	
1.4	256QAM	3	3	18.88	18.90	18.84	
1.4	256QAM	6	0	18.82	18.84	18.78	19.6



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	25
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	24
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	24
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	25
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	24
15	QPSK	36	20	22.51	22.74	22.59	
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	24
15	16QAM	1	0	22.92	23.08	22.85	
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	23
15	16QAM	36	0	21.67	21.71	21.63	
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	23
15	16QAM	75	0	21.61	21.74	21.59	
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	23
15	64QAM	1	74	22.01	21.83	21.82	
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	22
15	64QAM	36	39	20.72	20.65	20.66	
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	20
15	256QAM	1	37	18.63	18.76	18.69	
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	20
15	256QAM	36	20	18.62	18.75	18.77	



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	25
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	24
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	24
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	25
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	24
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	24
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	25
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	24
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	24
3	16QAM	1	0	22.98	23.17	23.02	
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	23
3	16QAM	8	0	21.53	21.66	21.67	
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	23
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	
3	64QAM	1	8	22.00	21.87	21.91	22
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	
3	64QAM	8	4	20.76	20.71	20.74	20
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	25
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	24
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	24
1.4	16QAM	1	0	22.56	22.69	22.64	
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	23
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	23
1.4	16QAM	6	0	21.53	21.71	21.69	
1.4	64QAM	1	0	21.59	21.65	21.48	
1.4	64QAM	1	3	21.49	21.68	21.40	23
1.4	64QAM	1	5	21.69	21.62	21.75	
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	22
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	20
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	
1.4	256QAM	6	0	18.71	18.76	18.69	20



<LTE Band 2_Ant 2_Index 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.90	23.94	23.85	
20	QPSK	1	49	23.66	23.86	23.62	25
20	QPSK	1	99	23.81	23.81	23.73	
20	QPSK	50	0	22.81	22.82	22.77	
20	QPSK	50	24	22.81	22.81	22.72	24
20	QPSK	50	50	22.78	22.78	22.69	
20	QPSK	100	0	22.83	22.84	22.76	
20	16QAM	1	0	23.19	23.19	22.87	24
20	16QAM	1	49	23.04	23.09	23.10	
20	16QAM	1	99	23.15	23.17	22.95	
20	16QAM	50	0	21.84	21.90	21.74	23
20	16QAM	50	24	21.78	21.87	21.79	
20	16QAM	50	50	21.80	21.84	21.77	
20	16QAM	100	0	21.80	21.90	21.73	23
20	64QAM	1	0	22.13	22.16	21.97	
20	64QAM	1	49	21.88	22.03	22.03	
20	64QAM	1	99	22.12	21.98	22.00	22
20	64QAM	50	0	20.95	21.04	20.86	
20	64QAM	50	24	20.92	20.90	20.90	
20	64QAM	50	50	20.91	20.91	20.82	20
20	64QAM	100	0	20.90	20.94	20.85	
20	256QAM	1	0	19.15	19.17	18.92	
20	256QAM	1	49	18.63	18.65	18.35	20
20	256QAM	1	99	18.79	18.85	18.56	
20	256QAM	50	0	18.91	18.97	18.67	
20	256QAM	50	24	18.82	18.89	18.62	20
20	256QAM	50	50	18.82	18.92	18.65	
20	256QAM	100	0	18.85	18.95	18.62	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.76	23.81	23.76	
15	QPSK	1	37	23.63	23.81	23.50	25
15	QPSK	1	74	23.61	23.65	23.58	
15	QPSK	36	0	22.76	22.80	22.74	24
15	QPSK	36	20	22.77	22.64	22.52	
15	QPSK	36	39	22.63	22.71	22.54	
15	QPSK	75	0	22.78	22.80	22.74	24
15	16QAM	1	0	23.04	23.18	22.73	
15	16QAM	1	37	23.02	22.98	22.90	
15	16QAM	1	74	22.97	23.14	22.85	23
15	16QAM	36	0	21.72	21.85	21.67	
15	16QAM	36	20	21.75	21.83	21.62	
15	16QAM	36	39	21.61	21.79	21.67	23
15	16QAM	75	0	21.66	21.73	21.72	
15	64QAM	1	0	21.99	22.01	21.84	
15	64QAM	1	37	21.76	22.01	22.00	22
15	64QAM	1	74	22.05	21.80	21.87	
15	64QAM	36	0	20.90	20.89	20.66	
15	64QAM	36	20	20.72	20.84	20.89	20
15	64QAM	36	39	20.72	20.91	20.71	
15	64QAM	75	0	20.78	20.89	20.65	
15	256QAM	1	0	19.02	18.97	18.90	20
15	256QAM	1	37	18.49	18.60	18.34	
15	256QAM	1	74	18.65	18.76	18.49	
15	256QAM	36	0	18.83	18.95	18.47	20
15	256QAM	36	20	18.73	18.78	18.45	



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15	256QAM	36	39	18.75	18.83	18.51	Tune-up limit (dBm)
15	256QAM	75	0	18.76	18.94	18.45	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	25
10	QPSK	1	0	23.89	23.85	23.81	
10	QPSK	1	25	23.62	23.77	23.44	
10	QPSK	1	49	23.63	23.81	23.58	24
10	QPSK	25	0	22.80	22.80	22.66	
10	QPSK	25	12	22.75	22.78	22.72	
10	QPSK	25	25	22.61	22.64	22.51	24
10	QPSK	50	0	22.69	22.77	22.74	
10	16QAM	1	0	23.02	23.03	22.68	
10	16QAM	1	25	22.86	23.08	23.10	23
10	16QAM	1	49	22.97	22.97	22.75	
10	16QAM	25	0	21.64	21.71	21.74	
10	16QAM	25	12	21.61	21.72	21.60	23
10	16QAM	25	25	21.65	21.67	21.59	
10	16QAM	50	0	21.69	21.79	21.64	
10	64QAM	1	0	21.98	22.09	21.79	23
10	64QAM	1	25	21.78	21.85	21.90	
10	64QAM	1	49	21.93	21.78	21.83	
10	64QAM	25	0	20.84	20.87	20.70	22
10	64QAM	25	12	20.78	20.74	20.90	
10	64QAM	25	25	20.85	20.74	20.76	
10	64QAM	50	0	20.83	20.83	20.78	20
10	256QAM	1	0	19.04	19.12	18.72	
10	256QAM	1	25	18.48	18.61	18.33	
10	256QAM	1	49	18.76	18.81	18.45	20
10	256QAM	25	0	18.73	18.80	18.50	
10	256QAM	25	12	18.76	18.77	18.52	
10	256QAM	25	25	18.66	18.87	18.63	20
10	256QAM	50	0	18.73	18.76	18.47	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.70	23.81	23.76	
5	QPSK	1	12	23.50	23.78	23.57	25
5	QPSK	1	24	23.69	23.61	23.69	
5	QPSK	12	0	22.69	22.76	22.62	24
5	QPSK	12	7	22.73	22.70	22.59	
5	QPSK	12	13	22.62	22.61	22.61	
5	QPSK	25	0	22.65	22.81	22.72	24
5	16QAM	1	0	23.11	23.12	22.80	
5	16QAM	1	12	22.89	22.99	22.90	
5	16QAM	1	24	22.99	23.12	22.76	23
5	16QAM	12	0	21.65	21.82	21.68	
5	16QAM	12	7	21.69	21.74	21.64	
5	16QAM	12	13	21.77	21.77	21.71	23
5	16QAM	25	0	21.62	21.79	21.57	
5	64QAM	1	0	22.03	22.08	21.97	
5	64QAM	1	12	21.79	21.83	21.99	22
5	64QAM	1	24	22.00	21.88	21.92	
5	64QAM	12	0	20.81	20.96	20.80	
5	64QAM	12	7	20.82	20.88	20.78	20
5	64QAM	12	13	20.91	20.78	20.69	
5	64QAM	25	0	20.88	20.93	20.76	
5	256QAM	1	0	19.13	19.07	18.86	20
5	256QAM	1	12	18.58	18.63	18.23	
5	256QAM	1	24	18.59	18.83	18.44	
5	256QAM	12	0	18.77	18.78	18.48	20
5	256QAM	12	7	18.73	18.81	18.55	
5	256QAM	12	13	18.77	18.84	18.61	
5	256QAM	25	0	18.69	18.79	18.48	Tune-up limit
Channel				18615	18900	19185	



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.75	23.86	23.72	25
3	QPSK	1	8	23.60	23.85	23.62	
3	QPSK	1	14	23.80	23.77	23.53	
3	QPSK	8	0	22.81	22.72	22.65	24
3	QPSK	8	4	22.79	22.77	22.54	
3	QPSK	8	7	22.78	22.72	22.54	
3	QPSK	15	0	22.82	22.65	22.75	24
3	16QAM	1	0	23.10	23.14	22.82	
3	16QAM	1	8	22.98	23.09	23.06	
3	16QAM	1	14	22.96	23.14	22.81	23
3	16QAM	8	0	21.74	21.78	21.55	
3	16QAM	8	4	21.74	21.84	21.78	
3	16QAM	8	7	21.78	21.74	21.72	23
3	16QAM	15	0	21.75	21.74	21.62	
3	64QAM	1	0	21.93	22.04	21.82	
3	64QAM	1	8	21.84	21.85	21.86	22
3	64QAM	1	14	22.03	21.80	21.93	
3	64QAM	8	0	20.78	20.89	20.74	
3	64QAM	8	4	20.90	20.72	20.84	20
3	64QAM	8	7	20.87	20.76	20.77	
3	64QAM	15	0	20.72	20.77	20.67	
3	256QAM	1	0	19.10	19.12	18.86	20
3	256QAM	1	8	18.47	18.54	18.17	
3	256QAM	1	14	18.79	18.75	18.36	
3	256QAM	8	0	18.91	18.82	18.63	20
3	256QAM	8	4	18.70	18.75	18.54	
3	256QAM	8	7	18.76	18.86	18.47	
3	256QAM	15	0	18.81	18.85	18.50	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.88	23.81	23.85	25
1.4	QPSK	1	3	23.55	23.75	23.43	
1.4	QPSK	1	5	23.67	23.68	23.59	
1.4	QPSK	3	0	23.75	23.90	23.79	24
1.4	QPSK	3	1	23.59	23.85	23.45	
1.4	QPSK	3	3	23.81	23.76	23.69	
1.4	QPSK	6	0	22.61	22.66	22.61	24
1.4	16QAM	1	0	22.78	22.70	22.59	
1.4	16QAM	1	3	22.61	22.73	22.54	
1.4	16QAM	1	5	22.72	22.65	22.58	23
1.4	16QAM	3	0	23.18	23.07	22.73	
1.4	16QAM	3	1	22.93	23.07	23.08	
1.4	16QAM	3	3	23.09	23.12	22.91	23
1.4	16QAM	6	0	21.79	21.76	21.58	
1.4	64QAM	1	0	21.65	21.70	21.75	
1.4	64QAM	1	3	21.72	21.70	21.72	22
1.4	64QAM	1	5	21.66	21.78	21.66	
1.4	64QAM	3	0	22.06	21.98	21.86	
1.4	64QAM	3	1	21.88	21.85	21.98	20
1.4	64QAM	3	3	22.02	21.83	21.89	
1.4	64QAM	6	0	20.81	20.89	20.85	
1.4	256QAM	1	0	19.03	19.01	18.90	20
1.4	256QAM	1	3	18.46	18.52	18.26	
1.4	256QAM	1	5	18.72	18.73	18.42	
1.4	256QAM	3	0	18.82	18.89	18.53	20
1.4	256QAM	3	1	18.75	18.83	18.56	
1.4	256QAM	3	3	18.75	18.90	18.61	
1.4	256QAM	6	0	18.68	18.77	18.46	20



<LTE Band 2_Ant 1_Index 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.13	16.25	16.10	
20	QPSK	1	49	15.84	15.90	15.85	16.5
20	QPSK	1	99	16.13	16.18	16.05	
20	QPSK	50	0	16.09	16.11	16.07	
20	QPSK	50	24	16.05	16.10	16.06	16.5
20	QPSK	50	50	16.08	16.11	16.02	
20	QPSK	100	0	16.06	16.09	16.01	
20	16QAM	1	0	16.11	16.01	16.15	16.5
20	16QAM	1	49	16.20	16.21	16.11	
20	16QAM	1	99	16.21	16.24	16.14	
20	16QAM	50	0	16.15	16.16	16.01	16.5
20	16QAM	50	24	16.18	16.17	16.07	
20	16QAM	50	50	16.10	16.24	16.05	
20	16QAM	100	0	16.20	16.17	16.08	16.5
20	64QAM	1	0	16.09	16.04	16.20	
20	64QAM	1	49	16.23	16.24	16.20	
20	64QAM	1	99	16.18	16.13	16.20	16.5
20	64QAM	50	0	16.18	16.20	16.12	
20	64QAM	50	24	16.21	16.21	16.11	
20	64QAM	50	50	16.14	16.23	16.06	16.5
20	64QAM	100	0	16.18	16.21	16.03	
20	256QAM	1	0	16.02	16.18	15.90	
20	256QAM	1	49	15.93	16.08	16.01	16.5
20	256QAM	1	99	16.03	16.14	16.01	
20	256QAM	50	0	16.09	16.16	15.99	
20	256QAM	50	24	15.98	16.22	15.92	16.5
20	256QAM	50	50	16.10	16.20	15.93	
20	256QAM	100	0	16.08	16.18	16.01	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	15.96	16.07	15.92	
15	QPSK	1	37	15.69	15.80	15.77	16.5
15	QPSK	1	74	16.01	16.00	16.05	
15	QPSK	36	0	15.96	16.08	15.88	
15	QPSK	36	20	15.90	15.99	16.05	16.5
15	QPSK	36	39	15.92	15.93	15.87	
15	QPSK	75	0	15.88	15.92	15.90	
15	16QAM	1	0	16.02	16.00	16.13	16.5
15	16QAM	1	37	16.08	16.05	15.97	
15	16QAM	1	74	16.04	16.22	16.01	
15	16QAM	36	0	16.12	15.97	15.82	16.5
15	16QAM	36	20	16.10	16.15	16.04	
15	16QAM	36	39	15.99	16.10	15.86	
15	16QAM	75	0	16.01	16.00	15.91	16.5
15	64QAM	1	0	16.06	16.03	16.14	
15	64QAM	1	37	16.14	16.21	16.01	
15	64QAM	1	74	16.02	16.04	16.03	16.5
15	64QAM	36	0	16.01	16.16	16.09	
15	64QAM	36	20	16.10	16.16	15.93	
15	64QAM	36	39	16.07	16.06	15.93	16.5
15	64QAM	75	0	16.01	16.11	16.00	
15	256QAM	1	0	15.92	16.12	15.87	
15	256QAM	1	37	15.90	15.88	15.99	16.5
15	256QAM	1	74	15.88	16.07	15.87	
15	256QAM	36	0	15.97	15.96	15.79	
15	256QAM	36	20	15.82	16.06	15.89	16.5



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15	256QAM	36	39	16.07	16.06	15.73	Tune-up limit (dBm)
15	256QAM	75	0	16.00	16.11	15.95	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.08	16.11	15.98	16.5
10	QPSK	1	25	15.76	15.79	15.77	
10	QPSK	1	49	16.04	16.16	15.93	
10	QPSK	25	0	16.01	16.08	16.07	16.5
10	QPSK	25	12	15.94	16.10	15.90	
10	QPSK	25	25	16.07	15.92	16.01	
10	QPSK	50	0	16.06	16.03	15.84	
10	16QAM	1	0	15.96	15.90	16.04	16.5
10	16QAM	1	25	16.13	16.14	16.06	
10	16QAM	1	49	16.03	16.11	16.11	
10	16QAM	25	0	16.09	15.99	15.93	16.5
10	16QAM	25	12	15.99	16.15	16.06	
10	16QAM	25	25	16.07	16.17	15.97	
10	16QAM	50	0	16.05	16.03	16.06	
10	64QAM	1	0	15.91	15.94	16.05	16.5
10	64QAM	1	25	16.07	16.21	16.06	
10	64QAM	1	49	16.08	16.07	16.19	
10	64QAM	25	0	16.17	16.13	16.05	16.5
10	64QAM	25	12	16.05	16.07	16.01	
10	64QAM	25	25	15.98	16.10	15.94	
10	64QAM	50	0	16.11	16.14	15.91	
10	256QAM	1	0	15.92	16.12	15.73	16.5
10	256QAM	1	25	15.90	16.07	15.92	
10	256QAM	1	49	15.87	16.02	15.91	
10	256QAM	25	0	15.93	15.96	15.97	16.5
10	256QAM	25	12	15.85	16.08	15.77	
10	256QAM	25	25	15.96	16.02	15.83	
10	256QAM	50	0	16.01	16.04	15.96	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.09	16.24	15.91	16.5
5	QPSK	1	12	15.79	15.74	15.74	
5	QPSK	1	24	16.03	16.03	15.90	
5	QPSK	12	0	16.08	16.02	16.04	16.5
5	QPSK	12	7	16.00	15.96	15.89	
5	QPSK	12	13	16.07	16.00	15.83	
5	QPSK	25	0	15.97	15.89	16.01	
5	16QAM	1	0	16.04	15.91	15.95	16.5
5	16QAM	1	12	16.12	16.21	16.10	
5	16QAM	1	24	16.15	16.19	16.02	
5	16QAM	12	0	16.04	16.01	15.86	16.5
5	16QAM	12	7	16.00	16.00	15.94	
5	16QAM	12	13	16.09	16.11	15.87	
5	16QAM	25	0	16.20	15.98	15.91	
5	64QAM	1	0	15.90	15.98	16.18	16.5
5	64QAM	1	12	16.03	16.06	16.13	
5	64QAM	1	24	16.14	16.13	16.03	
5	64QAM	12	0	15.98	16.20	16.07	16.5
5	64QAM	12	7	16.05	16.10	16.08	
5	64QAM	12	13	16.08	16.19	15.86	
5	64QAM	25	0	16.16	16.03	15.88	
5	256QAM	1	0	15.91	16.16	15.76	16.5
5	256QAM	1	12	15.75	16.03	15.95	
5	256QAM	1	24	15.96	16.01	15.83	
5	256QAM	12	0	16.00	16.11	15.79	16.5
5	256QAM	12	7	15.98	16.21	15.90	
5	256QAM	12	13	16.07	16.13	15.91	
5	256QAM	25	0	15.91	16.12	15.83	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	16.13	16.17	16.10	16.5
3	QPSK	1	8	15.74	15.77	15.76	
3	QPSK	1	14	16.04	16.15	16.05	
3	QPSK	8	0	15.95	15.99	15.98	16.5
3	QPSK	8	4	16.03	16.07	16.06	
3	QPSK	8	7	15.95	15.91	15.98	
3	QPSK	15	0	16.06	16.09	15.95	16.5
3	16QAM	1	0	15.98	15.81	15.97	
3	16QAM	1	8	16.15	16.09	16.06	
3	16QAM	1	14	16.18	16.05	15.99	16.5
3	16QAM	8	0	15.98	15.99	15.88	
3	16QAM	8	4	16.12	16.04	16.07	
3	16QAM	8	7	15.98	16.19	16.01	16.5
3	16QAM	15	0	16.08	16.03	16.07	
3	64QAM	1	0	15.93	16.00	16.05	
3	64QAM	1	8	16.17	16.15	16.07	16.5
3	64QAM	1	14	16.16	16.01	16.12	
3	64QAM	8	0	16.16	16.11	16.00	
3	64QAM	8	4	16.07	16.04	16.01	16.5
3	64QAM	8	7	16.10	16.08	15.97	
3	64QAM	15	0	16.10	16.19	15.83	
3	256QAM	1	0	15.88	16.18	15.82	16.5
3	256QAM	1	8	15.77	16.02	15.91	
3	256QAM	1	14	15.93	16.00	15.93	
3	256QAM	8	0	15.90	16.01	15.95	16.5
3	256QAM	8	4	15.88	16.20	15.78	
3	256QAM	8	7	16.03	16.08	15.84	
3	256QAM	15	0	15.90	15.98	15.88	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	16.5
1.4	QPSK	1	0	16.12	16.09	16.10	
1.4	QPSK	1	3	15.68	15.74	15.66	
1.4	QPSK	1	5	16.12	16.17	15.88	
1.4	QPSK	3	0	15.92	16.07	16.02	
1.4	QPSK	3	1	16.03	15.93	16.00	
1.4	QPSK	3	3	16.07	15.95	16.00	
1.4	QPSK	6	0	15.93	16.02	15.84	16.5
1.4	16QAM	1	0	16.11	15.94	16.15	16.5
1.4	16QAM	1	3	16.13	16.01	15.96	
1.4	16QAM	1	5	16.07	16.24	15.95	
1.4	16QAM	3	0	15.98	16.12	15.99	
1.4	16QAM	3	1	15.98	16.16	15.99	
1.4	16QAM	3	3	16.05	16.24	15.90	16.5
1.4	16QAM	6	0	16.20	16.08	15.97	
1.4	64QAM	1	0	16.08	15.87	16.01	
1.4	64QAM	1	3	16.11	16.24	16.19	16.5
1.4	64QAM	1	5	15.99	16.13	16.20	
1.4	64QAM	3	0	16.17	16.04	16.11	
1.4	64QAM	3	1	16.05	16.05	15.92	
1.4	64QAM	3	3	16.04	16.10	16.05	
1.4	64QAM	6	0	16.18	16.02	16.02	16.5
1.4	256QAM	1	0	15.85	16.01	15.78	16.5
1.4	256QAM	1	3	15.81	16.01	15.89	
1.4	256QAM	1	5	15.94	15.95	15.98	
1.4	256QAM	3	0	15.91	16.01	15.98	
1.4	256QAM	3	1	15.80	16.20	15.75	
1.4	256QAM	3	3	15.96	16.14	15.90	16.5
1.4	256QAM	6	0	16.05	16.12	15.92	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.16	24.31	24.27	25
20	QPSK	1	49	23.80	23.94	23.97	
20	QPSK	1	99	24.09	24.17	24.13	
20	QPSK	50	0	23.10	23.14	23.06	24
20	QPSK	50	24	23.03	23.13	23.08	
20	QPSK	50	50	23.08	23.16	23.04	
20	QPSK	100	0	23.11	23.19	23.13	24
20	16QAM	1	0	23.44	23.38	23.52	
20	16QAM	1	49	23.32	23.40	23.50	
20	16QAM	1	99	23.36	23.42	23.27	23
20	16QAM	50	0	22.06	22.24	22.20	
20	16QAM	50	24	22.02	22.14	22.13	
20	16QAM	50	50	22.10	22.12	22.08	23
20	16QAM	100	0	22.12	22.16	22.07	
20	64QAM	1	0	22.42	22.50	22.46	
20	64QAM	1	49	22.49	22.49	22.45	22
20	64QAM	1	99	22.44	22.42	22.40	
20	64QAM	50	0	21.17	21.29	21.25	
20	64QAM	50	24	21.19	21.29	21.22	20
20	64QAM	50	50	21.23	21.27	21.15	
20	64QAM	100	0	21.18	21.31	21.15	
20	256QAM	1	0	19.41	19.49	19.33	20
20	256QAM	1	49	19.05	19.19	19.01	
20	256QAM	1	99	19.16	19.30	19.13	
20	256QAM	50	0	19.14	19.22	19.03	20
20	256QAM	50	24	19.13	19.24	19.03	
20	256QAM	50	50	19.12	19.22	19.06	
20	256QAM	100	0	19.13	19.26	19.05	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	24.09	24.12	24.16	25
15	QPSK	1	37	23.60	23.85	23.95	
15	QPSK	1	74	23.98	24.00	24.02	
15	QPSK	36	0	22.93	22.97	22.89	24
15	QPSK	36	20	22.98	22.93	23.01	
15	QPSK	36	39	23.08	23.15	22.92	
15	QPSK	75	0	22.95	23.13	23.11	24
15	16QAM	1	0	23.31	23.30	23.36	
15	16QAM	1	37	23.18	23.32	23.35	
15	16QAM	1	74	23.28	23.35	23.21	23
15	16QAM	36	0	22.01	22.08	22.06	
15	16QAM	36	20	22.02	22.04	22.01	
15	16QAM	36	39	22.07	22.04	21.97	23
15	16QAM	75	0	21.95	22.00	21.96	
15	64QAM	1	0	22.23	22.30	22.33	
15	64QAM	1	37	22.35	22.32	22.42	22
15	64QAM	1	74	22.28	22.42	22.27	
15	64QAM	36	0	21.04	21.25	21.23	
15	64QAM	36	20	20.99	21.22	21.11	20
15	64QAM	36	39	21.14	21.13	21.07	
15	64QAM	75	0	21.06	21.25	21.10	
15	256QAM	1	0	19.32	19.38	19.25	20
15	256QAM	1	37	18.85	19.15	18.97	
15	256QAM	1	74	19.16	19.16	19.07	
15	256QAM	36	0	19.11	19.05	18.83	20
15	256QAM	36	20	19.12	19.13	18.97	



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15	256QAM	36	39	19.04	19.09	18.96	Tune-up limit (dBm)
15	256QAM	75	0	19.01	19.09	18.99	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.98	24.30	24.24	25
10	QPSK	1	25	23.73	23.89	23.82	
10	QPSK	1	49	23.92	23.99	24.01	
10	QPSK	25	0	22.95	23.03	22.91	24
10	QPSK	25	12	22.95	23.03	22.97	
10	QPSK	25	25	23.01	23.09	22.84	
10	QPSK	50	0	23.02	23.15	22.98	
10	16QAM	1	0	23.25	23.38	23.34	24
10	16QAM	1	25	23.29	23.26	23.50	
10	16QAM	1	49	23.22	23.26	23.11	
10	16QAM	25	0	22.00	22.11	22.00	23
10	16QAM	25	12	21.93	22.00	21.99	
10	16QAM	25	25	22.08	22.10	21.90	
10	16QAM	50	0	22.07	22.12	22.07	
10	64QAM	1	0	22.36	22.41	22.35	23
10	64QAM	1	25	22.31	22.37	22.31	
10	64QAM	1	49	22.30	22.38	22.23	
10	64QAM	25	0	21.16	21.12	21.23	22
10	64QAM	25	12	21.17	21.14	21.12	
10	64QAM	25	25	21.09	21.14	20.98	
10	64QAM	50	0	21.02	21.13	21.01	
10	256QAM	1	0	19.29	19.49	19.15	20
10	256QAM	1	25	18.98	19.06	18.97	
10	256QAM	1	49	19.09	19.30	18.96	
10	256QAM	25	0	19.14	19.16	18.93	
10	256QAM	25	12	19.06	19.20	18.85	20
10	256QAM	25	25	19.03	19.18	18.86	
10	256QAM	50	0	18.96	19.20	18.99	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.96	24.29	24.13	25
5	QPSK	1	12	23.71	23.75	23.83	
5	QPSK	1	24	23.91	24.09	24.05	
5	QPSK	12	0	23.00	23.05	22.99	24
5	QPSK	12	7	22.90	23.09	22.95	
5	QPSK	12	13	22.91	23.00	22.97	
5	QPSK	25	0	22.99	23.01	23.03	
5	16QAM	1	0	23.43	23.28	23.33	24
5	16QAM	1	12	23.23	23.27	23.46	
5	16QAM	1	24	23.35	23.33	23.13	
5	16QAM	12	0	21.96	22.18	22.09	23
5	16QAM	12	7	21.92	22.11	21.97	
5	16QAM	12	13	22.10	21.96	22.08	
5	16QAM	25	0	22.03	22.02	21.95	
5	64QAM	1	0	22.26	22.33	22.42	23
5	64QAM	1	12	22.34	22.37	22.36	
5	64QAM	1	24	22.25	22.39	22.37	
5	64QAM	12	0	21.01	21.26	21.14	22
5	64QAM	12	7	21.10	21.15	21.02	
5	64QAM	12	13	21.03	21.26	21.13	
5	64QAM	25	0	21.08	21.14	21.10	
5	256QAM	1	0	19.31	19.36	19.30	20
5	256QAM	1	12	18.85	19.19	18.93	
5	256QAM	1	24	19.03	19.15	19.05	
5	256QAM	12	0	19.10	19.19	18.90	
5	256QAM	12	7	18.96	19.15	19.02	20
5	256QAM	12	13	18.94	19.02	18.89	
5	256QAM	25	0	19.06	19.23	18.85	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	24.15	24.30	24.18	25
3	QPSK	1	8	23.66	23.81	23.96	
3	QPSK	1	14	23.89	24.05	23.97	
3	QPSK	8	0	22.93	23.01	23.00	24
3	QPSK	8	4	22.96	23.04	22.91	
3	QPSK	8	7	22.96	23.14	22.95	
3	QPSK	15	0	22.95	23.10	23.01	24
3	16QAM	1	0	23.25	23.25	23.52	
3	16QAM	1	8	23.29	23.27	23.35	
3	16QAM	1	14	23.28	23.41	23.23	23
3	16QAM	8	0	21.98	22.04	22.20	
3	16QAM	8	4	21.99	22.09	22.11	
3	16QAM	8	7	22.01	21.98	21.89	23
3	16QAM	15	0	22.09	21.98	22.06	
3	64QAM	1	0	22.39	22.38	22.26	
3	64QAM	1	8	22.32	22.43	22.31	22
3	64QAM	1	14	22.40	22.31	22.38	
3	64QAM	8	0	21.11	21.16	21.15	
3	64QAM	8	4	20.99	21.14	21.02	20
3	64QAM	8	7	21.18	21.07	21.01	
3	64QAM	15	0	21.05	21.22	21.08	
3	256QAM	1	0	19.37	19.32	19.14	20
3	256QAM	1	8	18.99	19.05	19.01	
3	256QAM	1	14	19.04	19.22	19.02	
3	256QAM	8	0	19.07	19.08	18.95	20
3	256QAM	8	4	18.97	19.20	18.97	
3	256QAM	8	7	19.10	19.13	19.05	
3	256QAM	15	0	19.09	19.26	19.05	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	25
1.4	QPSK	1	0	24.16	24.28	24.20	
1.4	QPSK	1	3	23.70	23.91	23.93	
1.4	QPSK	1	5	24.01	24.01	24.02	24
1.4	QPSK	3	0	24.00	24.30	24.18	
1.4	QPSK	3	1	23.66	23.78	23.94	
1.4	QPSK	3	3	24.08	23.99	23.95	24
1.4	QPSK	6	0	23.05	23.01	22.97	
1.4	16QAM	1	0	22.87	23.09	22.94	
1.4	16QAM	1	3	22.95	23.14	22.95	23
1.4	16QAM	1	5	22.96	23.03	22.94	
1.4	16QAM	3	0	23.29	23.21	23.34	
1.4	16QAM	3	1	23.24	23.38	23.42	23
1.4	16QAM	3	3	23.26	23.23	23.10	
1.4	16QAM	6	0	22.06	22.22	22.17	
1.4	64QAM	1	0	22.00	21.98	22.04	23
1.4	64QAM	1	3	21.93	21.92	22.06	
1.4	64QAM	1	5	22.09	22.06	21.92	
1.4	64QAM	3	0	22.31	22.48	22.45	22
1.4	64QAM	3	1	22.30	22.47	22.43	
1.4	64QAM	3	3	22.32	22.22	22.31	
1.4	64QAM	6	0	21.16	21.17	21.24	20
1.4	256QAM	1	0	19.23	19.41	19.18	
1.4	256QAM	1	3	18.93	19.10	18.86	
1.4	256QAM	1	5	19.07	19.25	18.96	20
1.4	256QAM	3	0	19.08	19.21	18.95	
1.4	256QAM	3	1	18.96	19.04	19.03	
1.4	256QAM	3	3	19.09	19.02	18.98	20
1.4	256QAM	6	0	18.98	19.20	18.93	

**<LTE Band 2_Ant 5_Index 7>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	24.1
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	24
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	24
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	24.1
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	
15	QPSK	36	20	22.51	22.74	22.59	24
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	
15	16QAM	1	0	22.92	23.08	22.85	24
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	
15	16QAM	36	0	21.67	21.71	21.63	23
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	
15	16QAM	75	0	21.61	21.74	21.59	23
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	
15	64QAM	1	74	22.01	21.83	21.82	22
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	
15	64QAM	36	39	20.72	20.65	20.66	20
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	
15	256QAM	1	37	18.63	18.76	18.69	20
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	
15	256QAM	36	20	18.62	18.75	18.77	20



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	24.1
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	24
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	24
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	24.1
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	24
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	24
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	24.1
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	24
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	
3	16QAM	1	0	22.98	23.17	23.02	24
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	
3	16QAM	8	0	21.53	21.66	21.67	23
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	23
3	64QAM	1	8	22.00	21.87	21.91	
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	22
3	64QAM	8	4	20.76	20.71	20.74	
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	24.1
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	24
1.4	16QAM	1	0	22.56	22.69	22.64	24
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	23
1.4	16QAM	6	0	21.53	21.71	21.69	
1.4	64QAM	1	0	21.59	21.65	21.48	
1.4	64QAM	1	3	21.49	21.68	21.40	
1.4	64QAM	1	5	21.69	21.62	21.75	23
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	22
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	20
1.4	256QAM	6	0	18.71	18.76	18.69	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.81	16.83	16.81	
20	QPSK	1	49	16.52	16.58	16.55	17.5
20	QPSK	1	99	16.71	16.76	16.71	
20	QPSK	50	0	16.77	16.79	16.78	
20	QPSK	50	24	16.76	16.77	16.72	17.5
20	QPSK	50	50	16.73	16.76	16.72	
20	QPSK	100	0	16.80	16.80	16.72	
20	16QAM	1	0	16.76	16.82	16.62	17.5
20	16QAM	1	49	16.57	16.82	16.73	
20	16QAM	1	99	16.71	16.59	16.50	
20	16QAM	50	0	16.77	16.75	16.74	17.5
20	16QAM	50	24	16.75	16.74	16.72	
20	16QAM	50	50	16.79	16.81	16.69	
20	16QAM	100	0	16.81	16.82	16.72	17.5
20	64QAM	1	0	16.70	16.77	16.72	
20	64QAM	1	49	16.70	16.55	16.52	
20	64QAM	1	99	16.43	16.60	16.48	17.5
20	64QAM	50	0	16.78	16.75	16.73	
20	64QAM	50	24	16.76	16.80	16.81	
20	64QAM	50	50	16.82	16.82	16.77	17.5
20	64QAM	100	0	16.82	16.76	16.82	
20	256QAM	1	0	16.77	16.67	16.72	
20	256QAM	1	49	16.79	16.67	16.71	17.5
20	256QAM	1	99	16.79	16.78	16.63	
20	256QAM	50	0	16.71	16.77	16.74	
20	256QAM	50	24	16.66	16.65	16.75	17.5
20	256QAM	50	50	16.77	16.78	16.64	
20	256QAM	100	0	16.64	16.75	16.68	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.70	16.71	16.72	
15	QPSK	1	37	16.40	16.40	16.50	17.5
15	QPSK	1	74	16.54	16.67	16.67	
15	QPSK	36	0	16.58	16.69	16.67	
15	QPSK	36	20	16.61	16.65	16.61	17.5
15	QPSK	36	39	16.59	16.69	16.68	
15	QPSK	75	0	16.61	16.77	16.63	
15	16QAM	1	0	16.65	16.70	16.52	17.5
15	16QAM	1	37	16.50	16.68	16.58	
15	16QAM	1	74	16.61	16.52	16.48	
15	16QAM	36	0	16.76	16.68	16.68	17.5
15	16QAM	36	20	16.63	16.61	16.69	
15	16QAM	36	39	16.65	16.78	16.49	
15	16QAM	75	0	16.63	16.73	16.53	17.5
15	64QAM	1	0	16.61	16.58	16.59	
15	64QAM	1	37	16.62	16.38	16.34	
15	64QAM	1	74	16.25	16.57	16.35	17.5
15	64QAM	36	0	16.68	16.63	16.66	
15	64QAM	36	20	16.62	16.62	16.76	
15	64QAM	36	39	16.82	16.72	16.70	17.5
15	64QAM	75	0	16.79	16.57	16.70	
15	256QAM	1	0	16.66	16.56	16.52	
15	256QAM	1	37	16.71	16.62	16.55	17.5
15	256QAM	1	74	16.66	16.76	16.48	
15	256QAM	36	0	16.62	16.71	16.73	
15	256QAM	36	20	16.61	16.65	16.67	17.5



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15	256QAM	36	39	16.65	16.78	16.44	Tune-up limit (dBm)
15	256QAM	75	0	16.50	16.75	16.62	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.81	16.68	16.80	17.5
10	QPSK	1	25	16.45	16.42	16.49	
10	QPSK	1	49	16.64	16.57	16.66	
10	QPSK	25	0	16.73	16.74	16.63	17.5
10	QPSK	25	12	16.71	16.57	16.55	
10	QPSK	25	25	16.56	16.68	16.72	
10	QPSK	50	0	16.65	16.67	16.61	
10	16QAM	1	0	16.64	16.82	16.60	17.5
10	16QAM	1	25	16.43	16.65	16.63	
10	16QAM	1	49	16.60	16.52	16.32	
10	16QAM	25	0	16.61	16.68	16.72	17.5
10	16QAM	25	12	16.63	16.61	16.66	
10	16QAM	25	25	16.74	16.61	16.68	
10	16QAM	50	0	16.66	16.77	16.58	
10	64QAM	1	0	16.54	16.60	16.71	17.5
10	64QAM	1	25	16.70	16.44	16.44	
10	64QAM	1	49	16.39	16.45	16.39	
10	64QAM	25	0	16.68	16.56	16.69	17.5
10	64QAM	25	12	16.69	16.62	16.76	
10	64QAM	25	25	16.67	16.65	16.72	
10	64QAM	50	0	16.69	16.57	16.69	
10	256QAM	1	0	16.60	16.63	16.55	17.5
10	256QAM	1	25	16.79	16.57	16.57	
10	256QAM	1	49	16.79	16.60	16.47	
10	256QAM	25	0	16.51	16.63	16.62	17.5
10	256QAM	25	12	16.59	16.49	16.58	
10	256QAM	25	25	16.72	16.60	16.47	
10	256QAM	50	0	16.51	16.71	16.67	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.74	16.69	16.73	17.5
5	QPSK	1	12	16.34	16.47	16.48	
5	QPSK	1	24	16.65	16.57	16.51	
5	QPSK	12	0	16.71	16.72	16.58	17.5
5	QPSK	12	7	16.60	16.75	16.52	
5	QPSK	12	13	16.59	16.65	16.58	
5	QPSK	25	0	16.76	16.62	16.64	
5	16QAM	1	0	16.76	16.70	16.47	17.5
5	16QAM	1	12	16.39	16.82	16.53	
5	16QAM	1	24	16.60	16.57	16.45	
5	16QAM	12	0	16.71	16.70	16.61	17.5
5	16QAM	12	7	16.63	16.69	16.58	
5	16QAM	12	13	16.76	16.67	16.52	
5	16QAM	25	0	16.79	16.75	16.58	
5	64QAM	1	0	16.70	16.63	16.52	17.5
5	64QAM	1	12	16.62	16.42	16.49	
5	64QAM	1	24	16.36	16.51	16.48	
5	64QAM	12	0	16.65	16.55	16.56	17.5
5	64QAM	12	7	16.75	16.75	16.77	
5	64QAM	12	13	16.69	16.63	16.64	
5	64QAM	25	0	16.68	16.63	16.65	
5	256QAM	1	0	16.74	16.61	16.56	17.5
5	256QAM	1	12	16.79	16.51	16.70	
5	256QAM	1	24	16.72	16.58	16.53	
5	256QAM	12	0	16.71	16.62	16.74	17.5
5	256QAM	12	7	16.47	16.61	16.63	
5	256QAM	12	13	16.69	16.70	16.60	
5	256QAM	25	0	16.49	16.72	16.51	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	16.70	16.72	16.74	17.5
3	QPSK	1	8	16.51	16.57	16.44	
3	QPSK	1	14	16.62	16.72	16.64	
3	QPSK	8	0	16.75	16.73	16.70	17.5
3	QPSK	8	4	16.56	16.72	16.57	
3	QPSK	8	7	16.67	16.63	16.68	
3	QPSK	15	0	16.68	16.79	16.62	17.5
3	16QAM	1	0	16.64	16.69	16.54	
3	16QAM	1	8	16.56	16.76	16.61	
3	16QAM	1	14	16.55	16.55	16.47	17.5
3	16QAM	8	0	16.72	16.59	16.61	
3	16QAM	8	4	16.65	16.64	16.71	
3	16QAM	8	7	16.69	16.68	16.52	17.5
3	16QAM	15	0	16.66	16.65	16.59	
3	64QAM	1	0	16.68	16.77	16.67	
3	64QAM	1	8	16.58	16.43	16.33	17.5
3	64QAM	1	14	16.28	16.57	16.38	
3	64QAM	8	0	16.61	16.61	16.70	
3	64QAM	8	4	16.56	16.65	16.80	17.5
3	64QAM	8	7	16.66	16.76	16.71	
3	64QAM	15	0	16.75	16.68	16.67	
3	256QAM	1	0	16.68	16.47	16.64	17.5
3	256QAM	1	8	16.61	16.64	16.61	
3	256QAM	1	14	16.73	16.58	16.55	
3	256QAM	8	0	16.53	16.74	16.57	17.5
3	256QAM	8	4	16.54	16.61	16.56	
3	256QAM	8	7	16.67	16.60	16.62	
3	256QAM	15	0	16.48	16.71	16.49	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.66	16.83	16.79	17.5
1.4	QPSK	1	3	16.49	16.42	16.51	
1.4	QPSK	1	5	16.63	16.60	16.70	
1.4	QPSK	3	0	16.75	16.69	16.68	17.5
1.4	QPSK	3	1	16.58	16.64	16.70	
1.4	QPSK	3	3	16.64	16.74	16.57	
1.4	QPSK	6	0	16.67	16.70	16.64	17.5
1.4	16QAM	1	0	16.56	16.62	16.51	
1.4	16QAM	1	3	16.47	16.65	16.70	
1.4	16QAM	1	5	16.71	16.51	16.44	17.5
1.4	16QAM	3	0	16.71	16.61	16.55	
1.4	16QAM	3	1	16.72	16.63	16.65	
1.4	16QAM	3	3	16.60	16.70	16.68	17.5
1.4	16QAM	6	0	16.73	16.75	16.57	
1.4	64QAM	1	0	16.59	16.69	16.57	
1.4	64QAM	1	3	16.51	16.50	16.41	17.5
1.4	64QAM	1	5	16.26	16.49	16.29	
1.4	64QAM	3	0	16.73	16.70	16.54	
1.4	64QAM	3	1	16.71	16.74	16.79	17.5
1.4	64QAM	3	3	16.76	16.63	16.70	
1.4	64QAM	6	0	16.65	16.65	16.74	
1.4	256QAM	1	0	16.75	16.63	16.59	17.5
1.4	256QAM	1	3	16.71	16.51	16.64	
1.4	256QAM	1	5	16.74	16.78	16.56	
1.4	256QAM	3	0	16.53	16.69	16.71	17.5
1.4	256QAM	3	1	16.54	16.55	16.72	
1.4	256QAM	3	3	16.67	16.75	16.62	
1.4	256QAM	6	0	16.44	16.72	16.68	17.5



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.63	19.65	19.59	19.8
20	QPSK	1	49	19.39	19.34	19.35	
20	QPSK	1	99	19.57	19.61	19.55	
20	QPSK	50	0	19.50	19.54	19.53	19.8
20	QPSK	50	24	19.50	19.48	19.46	
20	QPSK	50	50	19.41	19.51	19.44	
20	QPSK	100	0	19.57	19.63	19.39	
20	16QAM	1	0	19.59	19.52	19.58	19.8
20	16QAM	1	49	19.56	19.59	19.54	
20	16QAM	1	99	19.60	19.57	19.56	
20	16QAM	50	0	19.55	19.57	19.54	19.8
20	16QAM	50	24	19.54	19.56	19.50	
20	16QAM	50	50	19.60	19.61	19.49	
20	16QAM	100	0	19.64	19.56	19.56	
20	64QAM	1	0	19.56	19.59	19.58	19.8
20	64QAM	1	49	19.52	19.58	19.51	
20	64QAM	1	99	19.56	19.53	19.58	
20	64QAM	50	0	19.29	19.27	19.20	19.8
20	64QAM	50	24	19.18	19.24	19.16	
20	64QAM	50	50	19.14	19.24	19.10	
20	64QAM	100	0	19.19	19.29	19.11	
20	256QAM	1	0	18.81	18.93	18.63	19.8
20	256QAM	1	49	18.19	18.26	18.33	
20	256QAM	1	99	18.69	18.67	18.56	
20	256QAM	50	0	18.51	18.56	18.36	19.8
20	256QAM	50	24	18.41	18.44	18.36	
20	256QAM	50	50	18.62	18.55	18.35	
20	256QAM	100	0	18.49	18.62	18.37	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.45	19.61	19.39	19.8
15	QPSK	1	37	19.21	19.29	19.29	
15	QPSK	1	74	19.37	19.53	19.38	
15	QPSK	36	0	19.43	19.44	19.51	19.8
15	QPSK	36	20	19.38	19.46	19.37	
15	QPSK	36	39	19.38	19.34	19.28	
15	QPSK	75	0	19.52	19.59	19.22	
15	16QAM	1	0	19.42	19.49	19.48	19.8
15	16QAM	1	37	19.50	19.54	19.43	
15	16QAM	1	74	19.49	19.46	19.39	
15	16QAM	36	0	19.40	19.54	19.42	19.8
15	16QAM	36	20	19.46	19.53	19.46	
15	16QAM	36	39	19.57	19.60	19.40	
15	16QAM	75	0	19.63	19.41	19.37	
15	64QAM	1	0	19.36	19.44	19.41	19.8
15	64QAM	1	37	19.40	19.56	19.46	
15	64QAM	1	74	19.50	19.38	19.56	
15	64QAM	36	0	19.14	19.16	19.02	19.8
15	64QAM	36	20	19.00	19.23	19.16	
15	64QAM	36	39	19.12	19.14	18.93	
15	64QAM	75	0	19.05	19.15	18.97	
15	256QAM	1	0	18.71	18.88	18.59	19.8
15	256QAM	1	37	18.14	18.26	18.32	
15	256QAM	1	74	18.52	18.52	18.41	
15	256QAM	36	0	18.39	18.49	18.25	19.8
15	256QAM	36	20	18.25	18.42	18.17	



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15	256QAM	36	39	18.52	18.42	18.15	Tune-up limit (dBm)
15	256QAM	75	0	18.32	18.60	18.17	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.54	19.55	19.44	19.8
10	QPSK	1	25	19.28	19.23	19.33	
10	QPSK	1	49	19.52	19.45	19.49	
10	QPSK	25	0	19.30	19.47	19.38	19.8
10	QPSK	25	12	19.41	19.34	19.34	
10	QPSK	25	25	19.34	19.43	19.44	
10	QPSK	50	0	19.45	19.46	19.37	
10	16QAM	1	0	19.56	19.40	19.58	19.8
10	16QAM	1	25	19.49	19.40	19.49	
10	16QAM	1	49	19.47	19.47	19.41	
10	16QAM	25	0	19.52	19.56	19.47	19.8
10	16QAM	25	12	19.48	19.50	19.50	
10	16QAM	25	25	19.48	19.45	19.29	
10	16QAM	50	0	19.60	19.37	19.45	
10	64QAM	1	0	19.36	19.55	19.38	19.8
10	64QAM	1	25	19.34	19.55	19.40	
10	64QAM	1	49	19.47	19.43	19.46	
10	64QAM	25	0	19.19	19.10	19.09	19.8
10	64QAM	25	12	19.02	19.18	19.02	
10	64QAM	25	25	19.02	19.04	18.99	
10	64QAM	50	0	19.04	19.12	19.06	
10	256QAM	1	0	18.76	18.75	18.45	19.8
10	256QAM	1	25	18.18	18.07	18.30	
10	256QAM	1	49	18.57	18.56	18.36	
10	256QAM	25	0	18.33	18.48	18.27	19.8
10	256QAM	25	12	18.39	18.28	18.31	
10	256QAM	25	25	18.58	18.52	18.35	
10	256QAM	50	0	18.31	18.48	18.18	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.61	19.54	19.59	19.8
5	QPSK	1	12	19.28	19.21	19.15	
5	QPSK	1	24	19.51	19.60	19.53	
5	QPSK	12	0	19.38	19.50	19.53	19.8
5	QPSK	12	7	19.46	19.34	19.39	
5	QPSK	12	13	19.35	19.33	19.42	
5	QPSK	25	0	19.57	19.46	19.31	
5	16QAM	1	0	19.59	19.46	19.58	19.8
5	16QAM	1	12	19.41	19.41	19.42	
5	16QAM	1	24	19.43	19.38	19.36	
5	16QAM	12	0	19.41	19.47	19.36	19.8
5	16QAM	12	7	19.53	19.50	19.32	
5	16QAM	12	13	19.43	19.48	19.38	
5	16QAM	25	0	19.59	19.43	19.51	
5	64QAM	1	0	19.39	19.39	19.50	19.8
5	64QAM	1	12	19.35	19.43	19.32	
5	64QAM	1	24	19.46	19.45	19.52	
5	64QAM	12	0	19.25	19.12	19.10	19.8
5	64QAM	12	7	19.13	19.06	18.98	
5	64QAM	12	13	19.00	19.21	18.97	
5	64QAM	25	0	19.05	19.26	19.05	
5	256QAM	1	0	18.81	18.82	18.62	19.8
5	256QAM	1	12	18.04	18.13	18.14	
5	256QAM	1	24	18.65	18.56	18.52	
5	256QAM	12	0	18.49	18.52	18.31	19.8
5	256QAM	12	7	18.40	18.26	18.20	
5	256QAM	12	13	18.52	18.43	18.21	
5	256QAM	25	0	18.31	18.43	18.29	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.58	19.61	19.56	19.8
3	QPSK	1	8	19.26	19.17	19.32	
3	QPSK	1	14	19.41	19.44	19.53	
3	QPSK	8	0	19.30	19.54	19.43	19.8
3	QPSK	8	4	19.50	19.43	19.42	
3	QPSK	8	7	19.40	19.48	19.43	
3	QPSK	15	0	19.50	19.54	19.34	
3	16QAM	1	0	19.46	19.51	19.44	19.8
3	16QAM	1	8	19.36	19.41	19.34	
3	16QAM	1	14	19.45	19.50	19.37	
3	16QAM	8	0	19.49	19.40	19.53	19.8
3	16QAM	8	4	19.45	19.49	19.37	
3	16QAM	8	7	19.51	19.50	19.37	
3	16QAM	15	0	19.48	19.43	19.53	
3	64QAM	1	0	19.49	19.58	19.42	19.8
3	64QAM	1	8	19.46	19.42	19.40	
3	64QAM	1	14	19.48	19.46	19.55	
3	64QAM	8	0	19.24	19.18	19.02	19.8
3	64QAM	8	4	19.13	19.09	19.16	
3	64QAM	8	7	19.07	19.20	18.91	
3	64QAM	15	0	19.02	19.13	18.93	
3	256QAM	1	0	18.62	18.81	18.49	19.8
3	256QAM	1	8	18.04	18.22	18.17	
3	256QAM	1	14	18.55	18.58	18.51	
3	256QAM	8	0	18.44	18.51	18.27	19.8
3	256QAM	8	4	18.38	18.29	18.26	
3	256QAM	8	7	18.53	18.55	18.21	
3	256QAM	15	0	18.29	18.46	18.29	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.43	19.60	19.59	19.8
1.4	QPSK	1	3	19.20	19.15	19.24	
1.4	QPSK	1	5	19.52	19.58	19.52	
1.4	QPSK	3	0	19.40	19.43	19.34	
1.4	QPSK	3	1	19.42	19.35	19.34	
1.4	QPSK	3	3	19.34	19.33	19.39	
1.4	QPSK	6	0	19.52	19.54	19.29	19.8
1.4	16QAM	1	0	19.56	19.33	19.41	19.8
1.4	16QAM	1	3	19.50	19.56	19.40	
1.4	16QAM	1	5	19.47	19.47	19.49	
1.4	16QAM	3	0	19.52	19.38	19.52	
1.4	16QAM	3	1	19.39	19.43	19.46	
1.4	16QAM	3	3	19.43	19.49	19.37	
1.4	16QAM	6	0	19.46	19.45	19.55	19.8
1.4	64QAM	1	0	19.52	19.42	19.58	19.8
1.4	64QAM	1	3	19.34	19.48	19.49	
1.4	64QAM	1	5	19.43	19.52	19.38	
1.4	64QAM	3	0	19.20	19.24	19.13	
1.4	64QAM	3	1	19.15	19.18	19.08	
1.4	64QAM	3	3	18.98	19.14	19.05	
1.4	64QAM	6	0	19.09	19.29	18.97	19.8
1.4	256QAM	1	0	18.81	18.74	18.59	19.8
1.4	256QAM	1	3	18.09	18.17	18.31	
1.4	256QAM	1	5	18.60	18.60	18.50	
1.4	256QAM	3	0	18.48	18.52	18.23	
1.4	256QAM	3	1	18.35	18.35	18.36	
1.4	256QAM	3	3	18.48	18.51	18.25	
1.4	256QAM	6	0	18.32	18.43	18.23	19.8



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.59	19.69	19.53	
20	QPSK	1	49	19.26	19.31	19.28	19.9
20	QPSK	1	99	19.49	19.52	19.48	
20	QPSK	50	0	19.53	19.55	19.59	
20	QPSK	50	24	19.54	19.60	19.53	19.9
20	QPSK	50	50	19.49	19.56	19.46	
20	QPSK	100	0	19.53	19.60	19.47	
20	16QAM	1	0	19.42	19.63	19.45	19.9
20	16QAM	1	49	19.31	19.33	19.58	
20	16QAM	1	99	19.59	19.66	19.63	
20	16QAM	50	0	19.45	19.62	19.58	19.9
20	16QAM	50	24	19.41	19.63	19.49	
20	16QAM	50	50	19.62	19.45	19.39	
20	16QAM	100	0	19.57	19.52	19.53	19.9
20	64QAM	1	0	19.45	19.42	19.53	
20	64QAM	1	49	19.68	19.35	19.45	
20	64QAM	1	99	19.58	19.46	19.58	19.9
20	64QAM	50	0	19.51	19.56	19.50	
20	64QAM	50	24	19.52	19.56	19.53	
20	64QAM	50	50	19.55	19.50	19.48	19.9
20	64QAM	100	0	19.54	19.56	19.51	
20	256QAM	1	0	19.24	19.30	19.28	
20	256QAM	1	49	18.92	19.16	18.98	19.9
20	256QAM	1	99	19.01	19.15	18.94	
20	256QAM	50	0	19.03	19.05	18.94	
20	256QAM	50	24	19.08	19.05	19.01	19.9
20	256QAM	50	50	19.01	19.06	18.86	
20	256QAM	100	0	19.10	19.09	19.03	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.55	19.64	19.38	
15	QPSK	1	37	19.12	19.27	19.09	19.9
15	QPSK	1	74	19.47	19.32	19.34	
15	QPSK	36	0	19.33	19.37	19.46	
15	QPSK	36	20	19.53	19.44	19.53	19.9
15	QPSK	36	39	19.34	19.47	19.37	
15	QPSK	75	0	19.34	19.58	19.41	
15	16QAM	1	0	19.35	19.61	19.32	19.9
15	16QAM	1	37	19.27	19.13	19.55	
15	16QAM	1	74	19.52	19.57	19.47	
15	16QAM	36	0	19.42	19.57	19.53	19.9
15	16QAM	36	20	19.23	19.52	19.44	
15	16QAM	36	39	19.46	19.38	19.35	
15	16QAM	75	0	19.56	19.42	19.51	19.9
15	64QAM	1	0	19.44	19.38	19.41	
15	64QAM	1	37	19.52	19.31	19.40	
15	64QAM	1	74	19.40	19.30	19.45	19.9
15	64QAM	36	0	19.45	19.52	19.36	
15	64QAM	36	20	19.40	19.36	19.52	
15	64QAM	36	39	19.40	19.36	19.48	19.9
15	64QAM	75	0	19.43	19.37	19.46	
15	256QAM	1	0	19.09	19.28	19.10	
15	256QAM	1	37	18.77	19.15	18.96	19.9
15	256QAM	1	74	18.99	19.09	18.92	
15	256QAM	36	0	18.88	19.05	18.81	
15	256QAM	36	20	18.89	18.96	18.86	19.9



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15	256QAM	36	39	18.93	19.03	18.84	Tune-up limit (dBm)
15	256QAM	75	0	19.04	18.92	18.92	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.54	19.55	19.42	19.9
10	QPSK	1	25	19.17	19.23	19.15	
10	QPSK	1	49	19.36	19.41	19.39	
10	QPSK	25	0	19.49	19.45	19.47	19.9
10	QPSK	25	12	19.52	19.57	19.43	
10	QPSK	25	25	19.29	19.48	19.43	
10	QPSK	50	0	19.50	19.55	19.47	
10	16QAM	1	0	19.22	19.50	19.27	19.9
10	16QAM	1	25	19.15	19.17	19.44	
10	16QAM	1	49	19.59	19.54	19.44	
10	16QAM	25	0	19.44	19.42	19.58	19.9
10	16QAM	25	12	19.34	19.43	19.30	
10	16QAM	25	25	19.53	19.27	19.39	
10	16QAM	50	0	19.43	19.44	19.51	
10	64QAM	1	0	19.42	19.25	19.33	19.9
10	64QAM	1	25	19.61	19.30	19.40	
10	64QAM	1	49	19.47	19.27	19.58	
10	64QAM	25	0	19.51	19.49	19.50	19.9
10	64QAM	25	12	19.50	19.44	19.33	
10	64QAM	25	25	19.48	19.44	19.30	
10	64QAM	50	0	19.51	19.44	19.47	
10	256QAM	1	0	19.19	19.22	19.26	19.9
10	256QAM	1	25	18.84	19.06	18.93	
10	256QAM	1	49	18.83	19.03	18.75	
10	256QAM	25	0	18.88	18.90	18.75	19.9
10	256QAM	25	12	18.95	18.93	18.95	
10	256QAM	25	25	19.00	18.86	18.70	
10	256QAM	50	0	18.97	19.05	18.85	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.41	19.62	19.37	19.9
5	QPSK	1	12	19.26	19.29	19.18	
5	QPSK	1	24	19.49	19.42	19.40	
5	QPSK	12	0	19.41	19.46	19.43	19.9
5	QPSK	12	7	19.36	19.48	19.34	
5	QPSK	12	13	19.45	19.41	19.46	
5	QPSK	25	0	19.44	19.49	19.37	
5	16QAM	1	0	19.25	19.48	19.38	19.9
5	16QAM	1	12	19.19	19.26	19.50	
5	16QAM	1	24	19.56	19.58	19.48	
5	16QAM	12	0	19.28	19.58	19.47	19.9
5	16QAM	12	7	19.35	19.44	19.32	
5	16QAM	12	13	19.43	19.42	19.35	
5	16QAM	25	0	19.55	19.38	19.35	
5	64QAM	1	0	19.39	19.32	19.42	19.9
5	64QAM	1	12	19.56	19.33	19.43	
5	64QAM	1	24	19.48	19.44	19.46	
5	64QAM	12	0	19.31	19.56	19.39	19.9
5	64QAM	12	7	19.39	19.47	19.53	
5	64QAM	12	13	19.35	19.43	19.33	
5	64QAM	25	0	19.42	19.56	19.32	
5	256QAM	1	0	19.24	19.25	19.10	19.9
5	256QAM	1	12	18.91	19.11	18.93	
5	256QAM	1	24	18.96	19.05	18.92	
5	256QAM	12	0	19.00	19.00	18.89	19.9
5	256QAM	12	7	18.92	18.93	18.82	
5	256QAM	12	13	18.88	18.97	18.80	
5	256QAM	25	0	18.94	19.02	18.95	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.53	19.53	19.46	19.9
3	QPSK	1	8	19.13	19.14	19.12	
3	QPSK	1	14	19.46	19.35	19.30	
3	QPSK	8	0	19.45	19.45	19.53	19.9
3	QPSK	8	4	19.41	19.54	19.47	
3	QPSK	8	7	19.43	19.55	19.34	
3	QPSK	15	0	19.49	19.55	19.46	
3	16QAM	1	0	19.34	19.43	19.40	19.9
3	16QAM	1	8	19.15	19.28	19.46	
3	16QAM	1	14	19.53	19.55	19.58	
3	16QAM	8	0	19.40	19.53	19.41	19.9
3	16QAM	8	4	19.34	19.45	19.44	
3	16QAM	8	7	19.55	19.27	19.32	
3	16QAM	15	0	19.52	19.47	19.37	
3	64QAM	1	0	19.31	19.37	19.41	19.9
3	64QAM	1	8	19.56	19.35	19.25	
3	64QAM	1	14	19.45	19.36	19.47	
3	64QAM	8	0	19.35	19.48	19.36	19.9
3	64QAM	8	4	19.43	19.43	19.46	
3	64QAM	8	7	19.37	19.47	19.29	
3	64QAM	15	0	19.36	19.51	19.31	
3	256QAM	1	0	19.24	19.20	19.18	19.9
3	256QAM	1	8	18.88	18.96	18.89	
3	256QAM	1	14	18.82	18.99	18.80	
3	256QAM	8	0	19.02	19.00	18.75	19.9
3	256QAM	8	4	18.88	18.98	18.82	
3	256QAM	8	7	18.82	18.86	18.71	
3	256QAM	15	0	19.05	18.97	18.92	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.53	19.59	19.51	19.9
1.4	QPSK	1	3	19.19	19.20	19.26	
1.4	QPSK	1	5	19.32	19.47	19.41	
1.4	QPSK	3	0	19.34	19.48	19.52	
1.4	QPSK	3	1	19.45	19.44	19.53	
1.4	QPSK	3	3	19.31	19.44	19.32	
1.4	QPSK	6	0	19.47	19.57	19.42	
1.4	16QAM	1	0	19.34	19.53	19.33	19.9
1.4	16QAM	1	3	19.13	19.32	19.50	
1.4	16QAM	1	5	19.51	19.46	19.60	
1.4	16QAM	3	0	19.43	19.47	19.49	
1.4	16QAM	3	1	19.35	19.47	19.32	
1.4	16QAM	3	3	19.44	19.30	19.36	
1.4	16QAM	6	0	19.43	19.52	19.33	19.9
1.4	64QAM	1	0	19.30	19.27	19.49	19.9
1.4	64QAM	1	3	19.50	19.23	19.43	
1.4	64QAM	1	5	19.41	19.41	19.48	
1.4	64QAM	3	0	19.34	19.44	19.43	
1.4	64QAM	3	1	19.39	19.36	19.47	
1.4	64QAM	3	3	19.43	19.31	19.30	
1.4	64QAM	6	0	19.44	19.55	19.37	19.9
1.4	256QAM	1	0	19.14	19.11	19.13	19.9
1.4	256QAM	1	3	18.90	19.10	18.94	
1.4	256QAM	1	5	18.97	18.99	18.75	
1.4	256QAM	3	0	18.89	18.95	18.91	
1.4	256QAM	3	1	18.97	19.02	18.90	
1.4	256QAM	3	3	18.83	18.99	18.67	
1.4	256QAM	6	0	18.96	18.92	18.91	19.9



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	23.9
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	23.9
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	23.9
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	23.9
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	23.9
15	QPSK	36	20	22.51	22.74	22.59	
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	23.9
15	16QAM	1	0	22.92	23.08	22.85	
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	23
15	16QAM	36	0	21.67	21.71	21.63	
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	23
15	16QAM	75	0	21.61	21.74	21.59	
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	23
15	64QAM	1	74	22.01	21.83	21.82	
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	22
15	64QAM	36	39	20.72	20.65	20.66	
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	20
15	256QAM	1	37	18.63	18.76	18.69	
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	20
15	256QAM	36	20	18.62	18.75	18.77	



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	23.9
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	23.9
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	23.9
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	23.9
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	23.9
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	23.9
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	23.9
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	23.9
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	
3	16QAM	1	0	22.98	23.17	23.02	23.9
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	
3	16QAM	8	0	21.53	21.66	21.67	23
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	23
3	64QAM	1	8	22.00	21.87	21.91	
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	22
3	64QAM	8	4	20.76	20.71	20.74	
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	23.9
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	
1.4	16QAM	1	0	22.56	22.69	22.64	23.9
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	
1.4	16QAM	6	0	21.53	21.71	21.69	23
1.4	64QAM	1	0	21.59	21.65	21.48	23
1.4	64QAM	1	3	21.49	21.68	21.40	
1.4	64QAM	1	5	21.69	21.62	21.75	
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	22
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	
1.4	256QAM	6	0	18.71	18.76	18.69	20



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.33	17.35	17.24	
20	QPSK	1	49	17.00	17.13	16.99	18.4
20	QPSK	1	99	17.26	17.23	17.17	
20	QPSK	50	0	17.29	17.29	17.23	
20	QPSK	50	24	17.28	17.26	17.20	18.4
20	QPSK	50	50	17.27	17.23	17.20	
20	QPSK	100	0	17.24	17.32	17.24	
20	16QAM	1	0	17.32	17.20	17.08	18.4
20	16QAM	1	49	17.11	17.16	17.11	
20	16QAM	1	99	17.18	17.12	17.00	
20	16QAM	50	0	17.28	17.32	17.19	18.4
20	16QAM	50	24	17.24	17.28	17.20	
20	16QAM	50	50	17.29	17.28	17.18	
20	16QAM	100	0	17.30	17.32	17.24	18.4
20	64QAM	1	0	17.33	17.16	17.02	
20	64QAM	1	49	17.17	17.21	17.18	
20	64QAM	1	99	17.19	17.07	16.92	18.4
20	64QAM	50	0	17.31	17.26	17.26	
20	64QAM	50	24	17.29	17.27	17.27	
20	64QAM	50	50	17.30	17.31	17.25	18.4
20	64QAM	100	0	17.30	17.28	17.23	
20	256QAM	1	0	17.15	17.06	16.92	
20	256QAM	1	49	16.99	17.15	16.98	18.4
20	256QAM	1	99	17.04	16.88	16.75	
20	256QAM	50	0	17.24	17.17	17.09	
20	256QAM	50	24	17.23	17.10	17.07	18.4
20	256QAM	50	50	17.12	17.13	17.17	
20	256QAM	100	0	17.16	17.14	17.06	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.27	17.34	17.10	
15	QPSK	1	37	16.99	17.02	16.92	18.4
15	QPSK	1	74	17.10	17.05	17.12	
15	QPSK	36	0	17.13	17.19	17.16	18.4
15	QPSK	36	20	17.16	17.17	17.19	
15	QPSK	36	39	17.08	17.03	17.18	
15	QPSK	75	0	17.24	17.12	17.15	18.4
15	16QAM	1	0	17.24	17.05	16.95	
15	16QAM	1	37	17.08	17.11	17.11	
15	16QAM	1	74	17.18	16.99	16.89	18.4
15	16QAM	36	0	17.26	17.12	16.99	
15	16QAM	36	20	17.24	17.08	17.19	
15	16QAM	36	39	17.24	17.18	17.13	18.4
15	16QAM	75	0	17.24	17.23	17.19	
15	64QAM	1	0	17.26	17.15	16.84	
15	64QAM	1	37	17.16	17.04	17.06	18.4
15	64QAM	1	74	17.19	16.98	16.75	
15	64QAM	36	0	17.25	17.22	17.23	
15	64QAM	36	20	17.23	17.16	17.21	18.4
15	64QAM	36	39	17.17	17.16	17.15	
15	64QAM	75	0	17.20	17.17	17.23	
15	256QAM	1	0	17.14	16.92	16.81	18.4
15	256QAM	1	37	16.96	16.98	16.87	
15	256QAM	1	74	17.04	16.72	16.71	
15	256QAM	36	0	17.07	17.17	16.95	18.4
15	256QAM	36	20	17.09	16.99	16.89	



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15	256QAM	36	39	17.09	16.96	17.05	Tune-up limit (dBm)
15	256QAM	75	0	17.16	17.09	16.94	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.18	17.22	17.10	18.4
10	QPSK	1	25	16.95	16.93	16.97	
10	QPSK	1	49	17.10	17.17	17.16	
10	QPSK	25	0	17.25	17.19	17.11	18.4
10	QPSK	25	12	17.09	17.07	17.16	
10	QPSK	25	25	17.18	17.14	17.16	
10	QPSK	50	0	17.04	17.16	17.18	
10	16QAM	1	0	17.29	17.02	17.05	18.4
10	16QAM	1	25	17.11	17.03	16.93	
10	16QAM	1	49	16.98	17.03	16.90	
10	16QAM	25	0	17.20	17.29	17.03	18.4
10	16QAM	25	12	17.14	17.22	17.06	
10	16QAM	25	25	17.16	17.10	17.15	
10	16QAM	50	0	17.28	17.28	17.12	
10	64QAM	1	0	17.18	17.16	16.95	18.4
10	64QAM	1	25	17.12	17.07	17.01	
10	64QAM	1	49	17.08	17.01	16.78	
10	64QAM	25	0	17.28	17.18	17.09	18.4
10	64QAM	25	12	17.24	17.11	17.26	
10	64QAM	25	25	17.11	17.14	17.14	
10	64QAM	50	0	17.13	17.27	17.03	
10	256QAM	1	0	17.15	16.89	16.79	18.4
10	256QAM	1	25	16.84	17.00	16.94	
10	256QAM	1	49	16.86	16.70	16.56	
10	256QAM	25	0	17.19	17.01	17.08	18.4
10	256QAM	25	12	17.21	16.97	16.87	
10	256QAM	25	25	16.94	17.11	17.03	
10	256QAM	50	0	17.01	17.05	16.87	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.18	17.31	17.11	18.4
5	QPSK	1	12	16.98	17.11	16.81	
5	QPSK	1	24	17.23	17.06	17.17	
5	QPSK	12	0	17.18	17.13	17.03	18.4
5	QPSK	12	7	17.08	17.14	17.03	
5	QPSK	12	13	17.08	17.17	17.20	
5	QPSK	25	0	17.06	17.24	17.20	
5	16QAM	1	0	17.20	17.17	17.01	18.4
5	16QAM	1	12	17.11	17.10	17.11	
5	16QAM	1	24	17.01	17.00	16.88	
5	16QAM	12	0	17.12	17.28	17.12	18.4
5	16QAM	12	7	17.10	17.23	17.20	
5	16QAM	12	13	17.25	17.09	17.05	
5	16QAM	25	0	17.15	17.16	17.19	
5	64QAM	1	0	17.18	17.00	16.90	18.4
5	64QAM	1	12	17.12	17.10	17.11	
5	64QAM	1	24	17.15	16.89	16.90	
5	64QAM	12	0	17.21	17.16	17.07	18.4
5	64QAM	12	7	17.20	17.17	17.14	
5	64QAM	12	13	17.14	17.31	17.19	
5	64QAM	25	0	17.28	17.23	17.07	
5	256QAM	1	0	17.03	16.96	16.85	18.4
5	256QAM	1	12	16.80	16.96	16.96	
5	256QAM	1	24	16.89	16.70	16.65	
5	256QAM	12	0	17.09	17.11	17.05	18.4
5	256QAM	12	7	17.05	17.07	16.98	
5	256QAM	12	13	17.00	17.08	17.07	
5	256QAM	25	0	16.96	17.04	16.86	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	17.19	17.15	17.07	18.4
3	QPSK	1	8	16.88	16.94	16.89	
3	QPSK	1	14	17.16	17.09	17.15	
3	QPSK	8	0	17.13	17.24	17.10	18.4
3	QPSK	8	4	17.20	17.13	17.06	
3	QPSK	8	7	17.15	17.13	17.19	
3	QPSK	15	0	17.24	17.14	17.09	18.4
3	16QAM	1	0	17.22	17.10	16.93	
3	16QAM	1	8	17.11	17.10	17.10	
3	16QAM	1	14	17.05	17.01	16.98	18.4
3	16QAM	8	0	17.25	17.26	17.07	
3	16QAM	8	4	17.22	17.19	17.17	
3	16QAM	8	7	17.11	17.19	17.16	18.4
3	16QAM	15	0	17.29	17.26	17.08	
3	64QAM	1	0	17.13	17.03	16.84	
3	64QAM	1	8	17.01	17.21	17.14	18.4
3	64QAM	1	14	17.05	16.90	16.86	
3	64QAM	8	0	17.30	17.16	17.20	
3	64QAM	8	4	17.12	17.11	17.11	18.4
3	64QAM	8	7	17.21	17.21	17.13	
3	64QAM	15	0	17.29	17.19	17.14	
3	256QAM	1	0	17.00	17.02	16.72	18.4
3	256QAM	1	8	16.93	16.95	16.94	
3	256QAM	1	14	16.84	16.84	16.63	
3	256QAM	8	0	17.19	17.00	17.09	18.4
3	256QAM	8	4	17.21	17.02	16.96	
3	256QAM	8	7	16.95	17.12	16.97	
3	256QAM	15	0	16.98	17.08	16.94	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	18.4
1.4	QPSK	1	0	17.16	17.25	17.16	
1.4	QPSK	1	3	16.93	17.01	16.88	18.4
1.4	QPSK	1	5	17.06	17.13	17.09	
1.4	QPSK	3	0	17.09	17.29	17.08	
1.4	QPSK	3	1	17.23	17.15	17.11	18.4
1.4	QPSK	3	3	17.16	17.16	17.15	
1.4	QPSK	6	0	17.11	17.24	17.09	
1.4	16QAM	1	0	17.12	17.19	17.07	18.4
1.4	16QAM	1	3	17.03	17.06	17.02	
1.4	16QAM	1	5	17.04	17.12	16.81	
1.4	16QAM	3	0	17.25	17.29	17.08	18.4
1.4	16QAM	3	1	17.07	17.16	17.06	
1.4	16QAM	3	3	17.27	17.16	17.05	
1.4	16QAM	6	0	17.27	17.16	17.16	18.4
1.4	64QAM	1	0	17.15	16.99	16.82	
1.4	64QAM	1	3	17.11	17.13	17.16	
1.4	64QAM	1	5	17.00	17.03	16.88	18.4
1.4	64QAM	3	0	17.22	17.18	17.21	
1.4	64QAM	3	1	17.29	17.14	17.10	
1.4	64QAM	3	3	17.28	17.20	17.22	18.4
1.4	64QAM	6	0	17.18	17.26	17.04	
1.4	256QAM	1	0	17.05	16.91	16.79	
1.4	256QAM	1	3	16.82	17.10	16.89	18.4
1.4	256QAM	1	5	16.93	16.74	16.58	
1.4	256QAM	3	0	17.19	17.02	16.96	
1.4	256QAM	3	1	17.23	16.97	16.97	18.4
1.4	256QAM	3	3	16.96	16.95	17.17	
1.4	256QAM	6	0	17.11	17.13	16.99	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.16	21.17	21.10	
20	QPSK	1	49	20.89	20.84	20.85	22
20	QPSK	1	99	21.07	21.11	21.05	
20	QPSK	50	0	21.03	21.04	21.03	
20	QPSK	50	24	21.00	20.98	20.96	22
20	QPSK	50	50	21.01	21.01	20.94	
20	QPSK	100	0	21.14	21.15	20.89	
20	16QAM	1	0	21.09	21.02	21.08	22
20	16QAM	1	49	21.06	21.09	21.04	
20	16QAM	1	99	21.10	21.16	21.16	
20	16QAM	50	0	21.15	21.14	21.04	22
20	16QAM	50	24	21.04	21.16	21.00	
20	16QAM	50	50	21.10	21.11	20.99	
20	16QAM	100	0	21.14	21.16	21.06	22
20	64QAM	1	0	21.16	21.09	21.08	
20	64QAM	1	49	21.02	21.08	21.01	
20	64QAM	1	99	21.06	21.03	21.08	22
20	64QAM	50	0	20.79	20.77	20.70	
20	64QAM	50	24	20.68	20.74	20.66	
20	64QAM	50	50	20.64	20.74	20.60	22
20	64QAM	100	0	20.69	20.79	20.61	
20	256QAM	1	0	18.85	18.87	18.76	20
20	256QAM	1	49	18.32	18.39	18.14	
20	256QAM	1	99	18.66	18.77	18.49	
20	256QAM	50	0	18.48	18.54	18.26	20
20	256QAM	50	24	18.43	18.62	18.28	
20	256QAM	50	50	18.46	18.69	18.28	
20	256QAM	100	0	18.48	18.56	18.49	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.09	21.04	21.06	22
15	QPSK	1	37	20.71	20.74	20.83	
15	QPSK	1	74	20.99	21.06	20.96	
15	QPSK	36	0	20.90	20.92	21.00	22
15	QPSK	36	20	20.97	20.94	20.88	
15	QPSK	36	39	20.98	20.94	20.81	
15	QPSK	75	0	20.98	21.06	20.70	22
15	16QAM	1	0	20.99	20.89	20.88	
15	16QAM	1	37	20.90	20.94	20.97	
15	16QAM	1	74	20.98	21.05	21.08	22
15	16QAM	36	0	21.06	20.94	20.84	
15	16QAM	36	20	20.90	21.06	20.86	
15	16QAM	36	39	20.99	20.93	20.89	22
15	16QAM	75	0	21.09	21.05	20.88	
15	64QAM	1	0	21.12	20.91	21.00	
15	64QAM	1	37	20.90	20.98	20.84	22
15	64QAM	1	74	21.02	21.02	21.05	
15	64QAM	36	0	20.59	20.64	20.55	
15	64QAM	36	20	20.55	20.58	20.54	22
15	64QAM	36	39	20.58	20.59	20.47	
15	64QAM	75	0	20.59	20.79	20.54	
15	256QAM	1	0	18.66	18.87	18.76	20
15	256QAM	1	37	18.27	18.30	18.05	
15	256QAM	1	74	18.66	18.71	18.37	
15	256QAM	36	0	18.43	18.54	18.12	20
15	256QAM	36	20	18.41	18.54	18.21	



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15	256QAM	36	39	18.38	18.50	18.13	Tune-up limit (dBm)
15	256QAM	75	0	18.32	18.40	18.37	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.03	21.00	21.07	22
10	QPSK	1	25	20.74	20.76	20.77	
10	QPSK	1	49	21.06	21.08	20.90	
10	QPSK	25	0	20.97	20.91	20.91	22
10	QPSK	25	12	20.84	20.86	20.91	
10	QPSK	25	25	20.91	20.84	20.82	
10	QPSK	50	0	21.09	21.14	20.89	
10	16QAM	1	0	20.98	20.87	21.08	22
10	16QAM	1	25	21.02	20.99	20.85	
10	16QAM	1	49	21.04	21.14	21.00	
10	16QAM	25	0	21.05	20.98	21.02	22
10	16QAM	25	12	20.98	21.00	20.97	
10	16QAM	25	25	20.92	20.96	20.86	
10	16QAM	50	0	21.02	21.08	21.03	
10	64QAM	1	0	21.16	21.06	20.96	22
10	64QAM	1	25	20.85	20.89	20.84	
10	64QAM	1	49	21.04	20.84	21.08	
10	64QAM	25	0	20.77	20.62	20.70	22
10	64QAM	25	12	20.54	20.61	20.59	
10	64QAM	25	25	20.60	20.68	20.57	
10	64QAM	50	0	20.66	20.79	20.49	
10	256QAM	1	0	18.83	18.86	18.64	20
10	256QAM	1	25	18.29	18.26	18.03	
10	256QAM	1	49	18.65	18.59	18.49	
10	256QAM	25	0	18.35	18.54	18.17	20
10	256QAM	25	12	18.41	18.47	18.20	
10	256QAM	25	25	18.43	18.69	18.24	
10	256QAM	50	0	18.46	18.48	18.48	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.98	21.06	21.02	22
5	QPSK	1	12	20.70	20.68	20.70	
5	QPSK	1	24	20.91	21.03	20.99	
5	QPSK	12	0	21.02	20.89	20.89	22
5	QPSK	12	7	20.91	20.87	20.93	
5	QPSK	12	13	20.85	20.82	20.87	
5	QPSK	25	0	21.08	21.12	20.77	
5	16QAM	1	0	20.89	20.90	21.00	22
5	16QAM	1	12	20.89	21.04	20.84	
5	16QAM	1	24	21.05	21.00	21.16	
5	16QAM	12	0	21.00	20.97	21.02	22
5	16QAM	12	7	20.88	21.13	20.96	
5	16QAM	12	13	21.01	21.07	20.83	
5	16QAM	25	0	20.95	21.14	20.91	
5	64QAM	1	0	21.12	20.99	21.01	22
5	64QAM	1	12	20.84	20.99	20.91	
5	64QAM	1	24	20.91	20.89	21.00	
5	64QAM	12	0	20.66	20.75	20.56	22
5	64QAM	12	7	20.63	20.65	20.58	
5	64QAM	12	13	20.48	20.55	20.44	
5	64QAM	25	0	20.61	20.62	20.44	
5	256QAM	1	0	18.84	18.72	18.58	20
5	256QAM	1	12	18.30	18.25	18.04	
5	256QAM	1	24	18.57	18.69	18.40	
5	256QAM	12	0	18.38	18.44	18.13	20
5	256QAM	12	7	18.31	18.42	18.08	
5	256QAM	12	13	18.37	18.56	18.14	
5	256QAM	25	0	18.46	18.52	18.35	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	21.03	21.16	21.05	22
3	QPSK	1	8	20.70	20.82	20.70	
3	QPSK	1	14	20.99	20.99	20.92	
3	QPSK	8	0	20.89	21.00	20.95	22
3	QPSK	8	4	20.90	20.88	20.78	
3	QPSK	8	7	21.00	20.95	20.90	
3	QPSK	15	0	21.08	20.96	20.80	22
3	16QAM	1	0	20.96	20.94	20.89	
3	16QAM	1	8	20.92	21.09	20.99	
3	16QAM	1	14	20.99	21.13	21.07	22
3	16QAM	8	0	21.08	21.08	21.01	
3	16QAM	8	4	20.89	20.98	20.95	
3	16QAM	8	7	20.93	21.07	20.94	22
3	16QAM	15	0	20.96	21.06	20.95	
3	64QAM	1	0	21.01	20.98	21.07	
3	64QAM	1	8	21.01	21.07	21.00	22
3	64QAM	1	14	20.89	20.91	21.01	
3	64QAM	8	0	20.70	20.68	20.53	
3	64QAM	8	4	20.56	20.59	20.49	22
3	64QAM	8	7	20.47	20.69	20.54	
3	64QAM	15	0	20.65	20.70	20.61	
3	256QAM	1	0	18.84	18.76	18.56	20
3	256QAM	1	8	18.32	18.31	18.01	
3	256QAM	1	14	18.50	18.58	18.30	
3	256QAM	8	0	18.30	18.50	18.19	20
3	256QAM	8	4	18.41	18.48	18.15	
3	256QAM	8	7	18.42	18.60	18.14	
3	256QAM	15	0	18.35	18.49	18.47	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.06	20.98	20.96	22
1.4	QPSK	1	3	20.79	20.67	20.76	
1.4	QPSK	1	5	20.95	21.02	20.92	
1.4	QPSK	3	0	20.87	20.93	21.00	22
1.4	QPSK	3	1	20.86	20.89	20.95	
1.4	QPSK	3	3	20.97	20.99	20.78	
1.4	QPSK	6	0	21.14	21.14	20.70	22
1.4	16QAM	1	0	20.96	20.88	20.93	22
1.4	16QAM	1	3	20.92	21.02	20.95	
1.4	16QAM	1	5	20.98	21.00	21.06	
1.4	16QAM	3	0	21.00	20.98	20.93	22
1.4	16QAM	3	1	21.02	21.02	20.81	
1.4	16QAM	3	3	21.02	21.07	20.86	
1.4	16QAM	6	0	21.02	21.06	20.87	22
1.4	64QAM	1	0	21.07	20.98	20.97	22
1.4	64QAM	1	3	20.96	20.99	20.85	
1.4	64QAM	1	5	20.93	21.00	20.93	
1.4	64QAM	3	0	20.62	20.77	20.65	22
1.4	64QAM	3	1	20.50	20.59	20.62	
1.4	64QAM	3	3	20.57	20.73	20.58	
1.4	64QAM	6	0	20.60	20.66	20.42	22
1.4	256QAM	1	0	18.71	18.83	18.66	20
1.4	256QAM	1	3	18.30	18.30	18.05	
1.4	256QAM	1	5	18.54	18.69	18.44	
1.4	256QAM	3	0	18.45	18.35	18.25	20
1.4	256QAM	3	1	18.40	18.62	18.25	
1.4	256QAM	3	3	18.38	18.62	18.17	
1.4	256QAM	6	0	18.37	18.50	18.43	20



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.59	19.69	19.53	
20	QPSK	1	49	19.26	19.31	19.28	20.6
20	QPSK	1	99	19.49	19.52	19.48	
20	QPSK	50	0	19.53	19.55	19.59	
20	QPSK	50	24	19.54	19.60	19.53	20.6
20	QPSK	50	50	19.49	19.56	19.46	
20	QPSK	100	0	19.53	19.60	19.47	
20	16QAM	1	0	19.42	19.63	19.45	20.6
20	16QAM	1	49	19.31	19.33	19.58	
20	16QAM	1	99	19.59	19.66	19.63	
20	16QAM	50	0	19.45	19.62	19.58	20.6
20	16QAM	50	24	19.41	19.63	19.49	
20	16QAM	50	50	19.62	19.45	19.39	
20	16QAM	100	0	19.57	19.52	19.53	20.6
20	64QAM	1	0	19.45	19.42	19.53	
20	64QAM	1	49	19.68	19.35	19.45	
20	64QAM	1	99	19.58	19.46	19.58	20.6
20	64QAM	50	0	19.51	19.56	19.50	
20	64QAM	50	24	19.52	19.56	19.53	
20	64QAM	50	50	19.55	19.50	19.48	20
20	64QAM	100	0	19.54	19.56	19.51	
20	256QAM	1	0	19.24	19.30	19.28	
20	256QAM	1	49	18.92	19.16	18.98	20
20	256QAM	1	99	19.01	19.15	18.94	
20	256QAM	50	0	19.03	19.05	18.94	
20	256QAM	50	24	19.08	19.05	19.01	20
20	256QAM	50	50	19.01	19.06	18.86	
20	256QAM	100	0	19.10	19.09	19.03	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.55	19.64	19.38	
15	QPSK	1	37	19.12	19.27	19.09	20.6
15	QPSK	1	74	19.47	19.32	19.34	
15	QPSK	36	0	19.33	19.37	19.46	20.6
15	QPSK	36	20	19.53	19.44	19.53	
15	QPSK	36	39	19.34	19.47	19.37	
15	QPSK	75	0	19.34	19.58	19.41	20.6
15	16QAM	1	0	19.35	19.61	19.32	
15	16QAM	1	37	19.27	19.13	19.55	
15	16QAM	1	74	19.52	19.57	19.47	20.6
15	16QAM	36	0	19.42	19.57	19.53	
15	16QAM	36	20	19.23	19.52	19.44	
15	16QAM	36	39	19.46	19.38	19.35	20.6
15	16QAM	75	0	19.56	19.42	19.51	
15	64QAM	1	0	19.44	19.38	19.41	
15	64QAM	1	37	19.52	19.31	19.40	20.6
15	64QAM	1	74	19.40	19.30	19.45	
15	64QAM	36	0	19.45	19.52	19.36	
15	64QAM	36	20	19.40	19.36	19.52	20.6
15	64QAM	36	39	19.40	19.36	19.48	
15	64QAM	75	0	19.43	19.37	19.46	
15	256QAM	1	0	19.09	19.28	19.10	20
15	256QAM	1	37	18.77	19.15	18.96	
15	256QAM	1	74	18.99	19.09	18.92	
15	256QAM	36	0	18.88	19.05	18.81	20
15	256QAM	36	20	18.89	18.96	18.86	



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15	256QAM	36	39	18.93	19.03	18.84	Tune-up limit (dBm)
15	256QAM	75	0	19.04	18.92	18.92	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.54	19.55	19.42	20.6
10	QPSK	1	25	19.17	19.23	19.15	
10	QPSK	1	49	19.36	19.41	19.39	
10	QPSK	25	0	19.49	19.45	19.47	20.6
10	QPSK	25	12	19.52	19.57	19.43	
10	QPSK	25	25	19.29	19.48	19.43	
10	QPSK	50	0	19.50	19.55	19.47	
10	16QAM	1	0	19.22	19.50	19.27	20.6
10	16QAM	1	25	19.15	19.17	19.44	
10	16QAM	1	49	19.59	19.54	19.44	
10	16QAM	25	0	19.44	19.42	19.58	20.6
10	16QAM	25	12	19.34	19.43	19.30	
10	16QAM	25	25	19.53	19.27	19.39	
10	16QAM	50	0	19.43	19.44	19.51	
10	64QAM	1	0	19.42	19.25	19.33	20.6
10	64QAM	1	25	19.61	19.30	19.40	
10	64QAM	1	49	19.47	19.27	19.58	
10	64QAM	25	0	19.51	19.49	19.50	20.6
10	64QAM	25	12	19.50	19.44	19.33	
10	64QAM	25	25	19.48	19.44	19.30	
10	64QAM	50	0	19.51	19.44	19.47	
10	256QAM	1	0	19.19	19.22	19.26	20
10	256QAM	1	25	18.84	19.06	18.93	
10	256QAM	1	49	18.83	19.03	18.75	
10	256QAM	25	0	18.88	18.90	18.75	20
10	256QAM	25	12	18.95	18.93	18.95	
10	256QAM	25	25	19.00	18.86	18.70	
10	256QAM	50	0	18.97	19.05	18.85	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.41	19.62	19.37	20.6
5	QPSK	1	12	19.26	19.29	19.18	
5	QPSK	1	24	19.49	19.42	19.40	
5	QPSK	12	0	19.41	19.46	19.43	20.6
5	QPSK	12	7	19.36	19.48	19.34	
5	QPSK	12	13	19.45	19.41	19.46	
5	QPSK	25	0	19.44	19.49	19.37	
5	16QAM	1	0	19.25	19.48	19.38	20.6
5	16QAM	1	12	19.19	19.26	19.50	
5	16QAM	1	24	19.56	19.58	19.48	
5	16QAM	12	0	19.28	19.58	19.47	20.6
5	16QAM	12	7	19.35	19.44	19.32	
5	16QAM	12	13	19.43	19.42	19.35	
5	16QAM	25	0	19.55	19.38	19.35	
5	64QAM	1	0	19.39	19.32	19.42	20.6
5	64QAM	1	12	19.56	19.33	19.43	
5	64QAM	1	24	19.48	19.44	19.46	
5	64QAM	12	0	19.31	19.56	19.39	20.6
5	64QAM	12	7	19.39	19.47	19.53	
5	64QAM	12	13	19.35	19.43	19.33	
5	64QAM	25	0	19.42	19.56	19.32	
5	256QAM	1	0	19.24	19.25	19.10	20
5	256QAM	1	12	18.91	19.11	18.93	
5	256QAM	1	24	18.96	19.05	18.92	
5	256QAM	12	0	19.00	19.00	18.89	20
5	256QAM	12	7	18.92	18.93	18.82	
5	256QAM	12	13	18.88	18.97	18.80	
5	256QAM	25	0	18.94	19.02	18.95	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.53	19.53	19.46	20.6
3	QPSK	1	8	19.13	19.14	19.12	
3	QPSK	1	14	19.46	19.35	19.30	
3	QPSK	8	0	19.45	19.45	19.53	20.6
3	QPSK	8	4	19.41	19.54	19.47	
3	QPSK	8	7	19.43	19.55	19.34	
3	QPSK	15	0	19.49	19.55	19.46	20.6
3	16QAM	1	0	19.34	19.43	19.40	
3	16QAM	1	8	19.15	19.28	19.46	
3	16QAM	1	14	19.53	19.55	19.58	20.6
3	16QAM	8	0	19.40	19.53	19.41	
3	16QAM	8	4	19.34	19.45	19.44	
3	16QAM	8	7	19.55	19.27	19.32	20.6
3	16QAM	15	0	19.52	19.47	19.37	
3	64QAM	1	0	19.31	19.37	19.41	
3	64QAM	1	8	19.56	19.35	19.25	20.6
3	64QAM	1	14	19.45	19.36	19.47	
3	64QAM	8	0	19.35	19.48	19.36	
3	64QAM	8	4	19.43	19.43	19.46	20.6
3	64QAM	8	7	19.37	19.47	19.29	
3	64QAM	15	0	19.36	19.51	19.31	
3	256QAM	1	0	19.24	19.20	19.18	20
3	256QAM	1	8	18.88	18.96	18.89	
3	256QAM	1	14	18.82	18.99	18.80	
3	256QAM	8	0	19.02	19.00	18.75	20
3	256QAM	8	4	18.88	18.98	18.82	
3	256QAM	8	7	18.82	18.86	18.71	
3	256QAM	15	0	19.05	18.97	18.92	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	20.6
1.4	QPSK	1	0	19.53	19.59	19.51	
1.4	QPSK	1	3	19.19	19.20	19.26	
1.4	QPSK	1	5	19.32	19.47	19.41	20.6
1.4	QPSK	3	0	19.34	19.48	19.52	
1.4	QPSK	3	1	19.45	19.44	19.53	
1.4	QPSK	3	3	19.31	19.44	19.32	20.6
1.4	QPSK	6	0	19.47	19.57	19.42	
1.4	16QAM	1	0	19.34	19.53	19.33	
1.4	16QAM	1	3	19.13	19.32	19.50	20.6
1.4	16QAM	1	5	19.51	19.46	19.60	
1.4	16QAM	3	0	19.43	19.47	19.49	
1.4	16QAM	3	1	19.35	19.47	19.32	20.6
1.4	16QAM	3	3	19.44	19.30	19.36	
1.4	16QAM	6	0	19.43	19.52	19.33	
1.4	64QAM	1	0	19.30	19.27	19.49	20.6
1.4	64QAM	1	3	19.50	19.23	19.43	
1.4	64QAM	1	5	19.41	19.41	19.48	
1.4	64QAM	3	0	19.34	19.44	19.43	20.6
1.4	64QAM	3	1	19.39	19.36	19.47	
1.4	64QAM	3	3	19.43	19.31	19.30	
1.4	64QAM	6	0	19.44	19.55	19.37	20
1.4	256QAM	1	0	19.14	19.11	19.13	
1.4	256QAM	1	3	18.90	19.10	18.94	
1.4	256QAM	1	5	18.97	18.99	18.75	20
1.4	256QAM	3	0	18.89	18.95	18.91	
1.4	256QAM	3	1	18.97	19.02	18.90	
1.4	256QAM	3	3	18.83	18.99	18.67	20
1.4	256QAM	6	0	18.96	18.92	18.91	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	24.6
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	24
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	24
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	
20	256QAM	50	24	18.75	18.83	18.80	20
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	
15	QPSK	1	37	23.29	23.50	23.67	24.6
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	
15	QPSK	36	20	22.51	22.74	22.59	24
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	
15	16QAM	1	0	22.92	23.08	22.85	24
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	
15	16QAM	36	0	21.67	21.71	21.63	23
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	
15	16QAM	75	0	21.61	21.74	21.59	23
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	
15	64QAM	1	74	22.01	21.83	21.82	22
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	
15	64QAM	36	39	20.72	20.65	20.66	20
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	
15	256QAM	1	37	18.63	18.76	18.69	20
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	
15	256QAM	36	20	18.62	18.75	18.77	20



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	24.6
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	24
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	24
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	24.6
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	24
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	24
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	24.6
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	24
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	24
3	16QAM	1	0	22.98	23.17	23.02	
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	23
3	16QAM	8	0	21.53	21.66	21.67	
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	23
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	
3	64QAM	1	8	22.00	21.87	21.91	22
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	
3	64QAM	8	4	20.76	20.71	20.74	20
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	24.6
1.4	QPSK	1	0	23.66	23.73	23.87	
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	24
1.4	QPSK	3	0	23.69	23.74	23.85	
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	24
1.4	QPSK	6	0	22.45	22.71	22.61	
1.4	16QAM	1	0	22.56	22.69	22.64	
1.4	16QAM	1	3	22.53	22.60	22.50	23
1.4	16QAM	1	5	22.43	22.69	22.56	
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	23
1.4	16QAM	3	3	22.90	22.91	22.75	
1.4	16QAM	6	0	21.53	21.71	21.69	
1.4	64QAM	1	0	21.59	21.65	21.48	22
1.4	64QAM	1	3	21.49	21.68	21.40	
1.4	64QAM	1	5	21.69	21.62	21.75	
1.4	64QAM	3	0	21.94	21.99	21.90	20
1.4	64QAM	3	1	22.01	21.88	21.97	
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	20
1.4	256QAM	1	0	18.70	18.84	18.85	
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	20
1.4	256QAM	3	0	18.58	18.77	18.79	
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	20
1.4	256QAM	6	0	18.71	18.76	18.69	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.33	17.35	17.24	
20	QPSK	1	49	17.00	17.13	16.99	17.7
20	QPSK	1	99	17.26	17.23	17.17	
20	QPSK	50	0	17.29	17.29	17.23	
20	QPSK	50	24	17.28	17.26	17.20	17.7
20	QPSK	50	50	17.27	17.23	17.20	
20	QPSK	100	0	17.24	17.32	17.24	
20	16QAM	1	0	17.32	17.20	17.08	17.7
20	16QAM	1	49	17.11	17.16	17.11	
20	16QAM	1	99	17.18	17.12	17.00	
20	16QAM	50	0	17.28	17.32	17.19	17.7
20	16QAM	50	24	17.24	17.28	17.20	
20	16QAM	50	50	17.29	17.28	17.18	
20	16QAM	100	0	17.30	17.32	17.24	17.7
20	64QAM	1	0	17.33	17.16	17.02	
20	64QAM	1	49	17.17	17.21	17.18	
20	64QAM	1	99	17.19	17.07	16.92	17.7
20	64QAM	50	0	17.31	17.26	17.26	
20	64QAM	50	24	17.29	17.27	17.27	
20	64QAM	50	50	17.30	17.31	17.25	17.7
20	64QAM	100	0	17.30	17.28	17.23	
20	256QAM	1	0	17.15	17.06	16.92	
20	256QAM	1	49	16.99	17.15	16.98	17.7
20	256QAM	1	99	17.04	16.88	16.75	
20	256QAM	50	0	17.24	17.17	17.09	
20	256QAM	50	24	17.23	17.10	17.07	17.7
20	256QAM	50	50	17.12	17.13	17.17	
20	256QAM	100	0	17.16	17.14	17.06	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.27	17.34	17.10	
15	QPSK	1	37	16.99	17.02	16.92	17.7
15	QPSK	1	74	17.10	17.05	17.12	
15	QPSK	36	0	17.13	17.19	17.16	17.7
15	QPSK	36	20	17.16	17.17	17.19	
15	QPSK	36	39	17.08	17.03	17.18	
15	QPSK	75	0	17.24	17.12	17.15	17.7
15	16QAM	1	0	17.24	17.05	16.95	
15	16QAM	1	37	17.08	17.11	17.11	
15	16QAM	1	74	17.18	16.99	16.89	17.7
15	16QAM	36	0	17.26	17.12	16.99	
15	16QAM	36	20	17.24	17.08	17.19	
15	16QAM	36	39	17.24	17.18	17.13	17.7
15	16QAM	75	0	17.24	17.23	17.19	
15	64QAM	1	0	17.26	17.15	16.84	
15	64QAM	1	37	17.16	17.04	17.06	17.7
15	64QAM	1	74	17.19	16.98	16.75	
15	64QAM	36	0	17.25	17.22	17.23	
15	64QAM	36	20	17.23	17.16	17.21	17.7
15	64QAM	36	39	17.17	17.16	17.15	
15	64QAM	75	0	17.20	17.17	17.23	
15	256QAM	1	0	17.14	16.92	16.81	17.7
15	256QAM	1	37	16.96	16.98	16.87	
15	256QAM	1	74	17.04	16.72	16.71	
15	256QAM	36	0	17.07	17.17	16.95	17.7
15	256QAM	36	20	17.09	16.99	16.89	



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15	256QAM	36	39	17.09	16.96	17.05	Tune-up limit (dBm)
15	256QAM	75	0	17.16	17.09	16.94	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.18	17.22	17.10	17.7
10	QPSK	1	25	16.95	16.93	16.97	
10	QPSK	1	49	17.10	17.17	17.16	
10	QPSK	25	0	17.25	17.19	17.11	17.7
10	QPSK	25	12	17.09	17.07	17.16	
10	QPSK	25	25	17.18	17.14	17.16	
10	QPSK	50	0	17.04	17.16	17.18	
10	16QAM	1	0	17.29	17.02	17.05	17.7
10	16QAM	1	25	17.11	17.03	16.93	
10	16QAM	1	49	16.98	17.03	16.90	
10	16QAM	25	0	17.20	17.29	17.03	
10	16QAM	25	12	17.14	17.22	17.06	17.7
10	16QAM	25	25	17.16	17.10	17.15	
10	16QAM	50	0	17.28	17.28	17.12	
10	64QAM	1	0	17.18	17.16	16.95	17.7
10	64QAM	1	25	17.12	17.07	17.01	
10	64QAM	1	49	17.08	17.01	16.78	
10	64QAM	25	0	17.28	17.18	17.09	17.7
10	64QAM	25	12	17.24	17.11	17.26	
10	64QAM	25	25	17.11	17.14	17.14	
10	64QAM	50	0	17.13	17.27	17.03	
10	256QAM	1	0	17.15	16.89	16.79	17.7
10	256QAM	1	25	16.84	17.00	16.94	
10	256QAM	1	49	16.86	16.70	16.56	
10	256QAM	25	0	17.19	17.01	17.08	
10	256QAM	25	12	17.21	16.97	16.87	17.7
10	256QAM	25	25	16.94	17.11	17.03	
10	256QAM	50	0	17.01	17.05	16.87	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.18	17.31	17.11	17.7
5	QPSK	1	12	16.98	17.11	16.81	
5	QPSK	1	24	17.23	17.06	17.17	
5	QPSK	12	0	17.18	17.13	17.03	17.7
5	QPSK	12	7	17.08	17.14	17.03	
5	QPSK	12	13	17.08	17.17	17.20	
5	QPSK	25	0	17.06	17.24	17.20	
5	16QAM	1	0	17.20	17.17	17.01	17.7
5	16QAM	1	12	17.11	17.10	17.11	
5	16QAM	1	24	17.01	17.00	16.88	
5	16QAM	12	0	17.12	17.28	17.12	17.7
5	16QAM	12	7	17.10	17.23	17.20	
5	16QAM	12	13	17.25	17.09	17.05	
5	16QAM	25	0	17.15	17.16	17.19	
5	64QAM	1	0	17.18	17.00	16.90	17.7
5	64QAM	1	12	17.12	17.10	17.11	
5	64QAM	1	24	17.15	16.89	16.90	
5	64QAM	12	0	17.21	17.16	17.07	17.7
5	64QAM	12	7	17.20	17.17	17.14	
5	64QAM	12	13	17.14	17.31	17.19	
5	64QAM	25	0	17.28	17.23	17.07	
5	256QAM	1	0	17.03	16.96	16.85	17.7
5	256QAM	1	12	16.80	16.96	16.96	
5	256QAM	1	24	16.89	16.70	16.65	
5	256QAM	12	0	17.09	17.11	17.05	
5	256QAM	12	7	17.05	17.07	16.98	17.7
5	256QAM	12	13	17.00	17.08	17.07	
5	256QAM	25	0	16.96	17.04	16.86	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	17.19	17.15	17.07	17.7
3	QPSK	1	8	16.88	16.94	16.89	
3	QPSK	1	14	17.16	17.09	17.15	
3	QPSK	8	0	17.13	17.24	17.10	17.7
3	QPSK	8	4	17.20	17.13	17.06	
3	QPSK	8	7	17.15	17.13	17.19	
3	QPSK	15	0	17.24	17.14	17.09	17.7
3	16QAM	1	0	17.22	17.10	16.93	
3	16QAM	1	8	17.11	17.10	17.10	
3	16QAM	1	14	17.05	17.01	16.98	17.7
3	16QAM	8	0	17.25	17.26	17.07	
3	16QAM	8	4	17.22	17.19	17.17	
3	16QAM	8	7	17.11	17.19	17.16	17.7
3	16QAM	15	0	17.29	17.26	17.08	
3	64QAM	1	0	17.13	17.03	16.84	
3	64QAM	1	8	17.01	17.21	17.14	17.7
3	64QAM	1	14	17.05	16.90	16.86	
3	64QAM	8	0	17.30	17.16	17.20	
3	64QAM	8	4	17.12	17.11	17.11	17.7
3	64QAM	8	7	17.21	17.21	17.13	
3	64QAM	15	0	17.29	17.19	17.14	
3	256QAM	1	0	17.00	17.02	16.72	17.7
3	256QAM	1	8	16.93	16.95	16.94	
3	256QAM	1	14	16.84	16.84	16.63	
3	256QAM	8	0	17.19	17.00	17.09	17.7
3	256QAM	8	4	17.21	17.02	16.96	
3	256QAM	8	7	16.95	17.12	16.97	
3	256QAM	15	0	16.98	17.08	16.94	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	17.7
1.4	QPSK	1	0	17.16	17.25	17.16	
1.4	QPSK	1	3	16.93	17.01	16.88	
1.4	QPSK	1	5	17.06	17.13	17.09	17.7
1.4	QPSK	3	0	17.09	17.29	17.08	
1.4	QPSK	3	1	17.23	17.15	17.11	
1.4	QPSK	3	3	17.16	17.16	17.15	17.7
1.4	QPSK	6	0	17.11	17.24	17.09	
1.4	16QAM	1	0	17.12	17.19	17.07	
1.4	16QAM	1	3	17.03	17.06	17.02	17.7
1.4	16QAM	1	5	17.04	17.12	16.81	
1.4	16QAM	3	0	17.25	17.29	17.08	
1.4	16QAM	3	1	17.07	17.16	17.06	17.7
1.4	16QAM	3	3	17.27	17.16	17.05	
1.4	16QAM	6	0	17.27	17.16	17.16	
1.4	64QAM	1	0	17.15	16.99	16.82	17.7
1.4	64QAM	1	3	17.11	17.13	17.16	
1.4	64QAM	1	5	17.00	17.03	16.88	
1.4	64QAM	3	0	17.22	17.18	17.21	17.7
1.4	64QAM	3	1	17.29	17.14	17.10	
1.4	64QAM	3	3	17.28	17.20	17.22	
1.4	64QAM	6	0	17.18	17.26	17.04	17.7
1.4	256QAM	1	0	17.05	16.91	16.79	
1.4	256QAM	1	3	16.82	17.10	16.89	
1.4	256QAM	1	5	16.93	16.74	16.58	17.7
1.4	256QAM	3	0	17.19	17.02	16.96	
1.4	256QAM	3	1	17.23	16.97	16.97	
1.4	256QAM	3	3	16.96	16.95	17.17	17.7
1.4	256QAM	6	0	17.11	17.13	16.99	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.16	21.17	21.10	
20	QPSK	1	49	20.89	20.84	20.85	21.3
20	QPSK	1	99	21.07	21.11	21.05	
20	QPSK	50	0	21.03	21.04	21.03	
20	QPSK	50	24	21.00	20.98	20.96	21.3
20	QPSK	50	50	21.01	21.01	20.94	
20	QPSK	100	0	21.14	21.15	20.89	
20	16QAM	1	0	21.09	21.02	21.08	21.3
20	16QAM	1	49	21.06	21.09	21.04	
20	16QAM	1	99	21.10	21.16	21.16	
20	16QAM	50	0	21.15	21.14	21.04	21.3
20	16QAM	50	24	21.04	21.16	21.00	
20	16QAM	50	50	21.10	21.11	20.99	
20	16QAM	100	0	21.14	21.16	21.06	21.3
20	64QAM	1	0	21.16	21.09	21.08	
20	64QAM	1	49	21.02	21.08	21.01	
20	64QAM	1	99	21.06	21.03	21.08	21.3
20	64QAM	50	0	20.79	20.77	20.70	
20	64QAM	50	24	20.68	20.74	20.66	
20	64QAM	50	50	20.64	20.74	20.60	21.3
20	64QAM	100	0	20.69	20.79	20.61	
20	256QAM	1	0	18.85	18.87	18.76	20
20	256QAM	1	49	18.32	18.39	18.14	
20	256QAM	1	99	18.66	18.77	18.49	
20	256QAM	50	0	18.48	18.54	18.26	20
20	256QAM	50	24	18.43	18.62	18.28	
20	256QAM	50	50	18.46	18.69	18.28	
20	256QAM	100	0	18.48	18.56	18.49	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.09	21.04	21.06	
15	QPSK	1	37	20.71	20.74	20.83	21.3
15	QPSK	1	74	20.99	21.06	20.96	
15	QPSK	36	0	20.90	20.92	21.00	21.3
15	QPSK	36	20	20.97	20.94	20.88	
15	QPSK	36	39	20.98	20.94	20.81	
15	QPSK	75	0	20.98	21.06	20.70	21.3
15	16QAM	1	0	20.99	20.89	20.88	
15	16QAM	1	37	20.90	20.94	20.97	
15	16QAM	1	74	20.98	21.05	21.08	21.3
15	16QAM	36	0	21.06	20.94	20.84	
15	16QAM	36	20	20.90	21.06	20.86	
15	16QAM	36	39	20.99	20.93	20.89	21.3
15	16QAM	75	0	21.09	21.05	20.88	
15	64QAM	1	0	21.12	20.91	21.00	
15	64QAM	1	37	20.90	20.98	20.84	21.3
15	64QAM	1	74	21.02	21.02	21.05	
15	64QAM	36	0	20.59	20.64	20.55	
15	64QAM	36	20	20.55	20.58	20.54	21.3
15	64QAM	36	39	20.58	20.59	20.47	
15	64QAM	75	0	20.59	20.79	20.54	
15	256QAM	1	0	18.66	18.87	18.76	20
15	256QAM	1	37	18.27	18.30	18.05	
15	256QAM	1	74	18.66	18.71	18.37	
15	256QAM	36	0	18.43	18.54	18.12	20
15	256QAM	36	20	18.41	18.54	18.21	



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15	256QAM	36	39	18.38	18.50	18.13	
15	256QAM	75	0	18.32	18.40	18.37	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.03	21.00	21.07	21.3
10	QPSK	1	25	20.74	20.76	20.77	
10	QPSK	1	49	21.06	21.08	20.90	
10	QPSK	25	0	20.97	20.91	20.91	21.3
10	QPSK	25	12	20.84	20.86	20.91	
10	QPSK	25	25	20.91	20.84	20.82	
10	QPSK	50	0	21.09	21.14	20.89	
10	16QAM	1	0	20.98	20.87	21.08	21.3
10	16QAM	1	25	21.02	20.99	20.85	
10	16QAM	1	49	21.04	21.14	21.00	
10	16QAM	25	0	21.05	20.98	21.02	21.3
10	16QAM	25	12	20.98	21.00	20.97	
10	16QAM	25	25	20.92	20.96	20.86	
10	16QAM	50	0	21.02	21.08	21.03	
10	64QAM	1	0	21.16	21.06	20.96	21.3
10	64QAM	1	25	20.85	20.89	20.84	
10	64QAM	1	49	21.04	20.84	21.08	
10	64QAM	25	0	20.77	20.62	20.70	21.3
10	64QAM	25	12	20.54	20.61	20.59	
10	64QAM	25	25	20.60	20.68	20.57	
10	64QAM	50	0	20.66	20.79	20.49	
10	256QAM	1	0	18.83	18.86	18.64	20
10	256QAM	1	25	18.29	18.26	18.03	
10	256QAM	1	49	18.65	18.59	18.49	
10	256QAM	25	0	18.35	18.54	18.17	20
10	256QAM	25	12	18.41	18.47	18.20	
10	256QAM	25	25	18.43	18.69	18.24	
10	256QAM	50	0	18.46	18.48	18.48	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.98	21.06	21.02	21.3
5	QPSK	1	12	20.70	20.68	20.70	
5	QPSK	1	24	20.91	21.03	20.99	
5	QPSK	12	0	21.02	20.89	20.89	21.3
5	QPSK	12	7	20.91	20.87	20.93	
5	QPSK	12	13	20.85	20.82	20.87	
5	QPSK	25	0	21.08	21.12	20.77	
5	16QAM	1	0	20.89	20.90	21.00	21.3
5	16QAM	1	12	20.89	21.04	20.84	
5	16QAM	1	24	21.05	21.00	21.16	
5	16QAM	12	0	21.00	20.97	21.02	21.3
5	16QAM	12	7	20.88	21.13	20.96	
5	16QAM	12	13	21.01	21.07	20.83	
5	16QAM	25	0	20.95	21.14	20.91	
5	64QAM	1	0	21.12	20.99	21.01	21.3
5	64QAM	1	12	20.84	20.99	20.91	
5	64QAM	1	24	20.91	20.89	21.00	
5	64QAM	12	0	20.66	20.75	20.56	21.3
5	64QAM	12	7	20.63	20.65	20.58	
5	64QAM	12	13	20.48	20.55	20.44	
5	64QAM	25	0	20.61	20.62	20.44	
5	256QAM	1	0	18.84	18.72	18.58	20
5	256QAM	1	12	18.30	18.25	18.04	
5	256QAM	1	24	18.57	18.69	18.40	
5	256QAM	12	0	18.38	18.44	18.13	20
5	256QAM	12	7	18.31	18.42	18.08	
5	256QAM	12	13	18.37	18.56	18.14	
5	256QAM	25	0	18.46	18.52	18.35	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	21.03	21.16	21.05	21.3
3	QPSK	1	8	20.70	20.82	20.70	
3	QPSK	1	14	20.99	20.99	20.92	
3	QPSK	8	0	20.89	21.00	20.95	21.3
3	QPSK	8	4	20.90	20.88	20.78	
3	QPSK	8	7	21.00	20.95	20.90	
3	QPSK	15	0	21.08	20.96	20.80	
3	16QAM	1	0	20.96	20.94	20.89	21.3
3	16QAM	1	8	20.92	21.09	20.99	
3	16QAM	1	14	20.99	21.13	21.07	
3	16QAM	8	0	21.08	21.08	21.01	21.3
3	16QAM	8	4	20.89	20.98	20.95	
3	16QAM	8	7	20.93	21.07	20.94	
3	16QAM	15	0	20.96	21.06	20.95	
3	64QAM	1	0	21.01	20.98	21.07	21.3
3	64QAM	1	8	21.01	21.07	21.00	
3	64QAM	1	14	20.89	20.91	21.01	
3	64QAM	8	0	20.70	20.68	20.53	21.3
3	64QAM	8	4	20.56	20.59	20.49	
3	64QAM	8	7	20.47	20.69	20.54	
3	64QAM	15	0	20.65	20.70	20.61	
3	256QAM	1	0	18.84	18.76	18.56	20
3	256QAM	1	8	18.32	18.31	18.01	
3	256QAM	1	14	18.50	18.58	18.30	
3	256QAM	8	0	18.30	18.50	18.19	20
3	256QAM	8	4	18.41	18.48	18.15	
3	256QAM	8	7	18.42	18.60	18.14	
3	256QAM	15	0	18.35	18.49	18.47	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.06	20.98	20.96	21.3
1.4	QPSK	1	3	20.79	20.67	20.76	
1.4	QPSK	1	5	20.95	21.02	20.92	
1.4	QPSK	3	0	20.87	20.93	21.00	
1.4	QPSK	3	1	20.86	20.89	20.95	
1.4	QPSK	3	3	20.97	20.99	20.78	
1.4	QPSK	6	0	21.14	21.14	20.70	21.3
1.4	16QAM	1	0	20.96	20.88	20.93	21.3
1.4	16QAM	1	3	20.92	21.02	20.95	
1.4	16QAM	1	5	20.98	21.00	21.06	
1.4	16QAM	3	0	21.00	20.98	20.93	
1.4	16QAM	3	1	21.02	21.02	20.81	
1.4	16QAM	3	3	21.02	21.07	20.86	
1.4	16QAM	6	0	21.02	21.06	20.87	21.3
1.4	64QAM	1	0	21.07	20.98	20.97	21.3
1.4	64QAM	1	3	20.96	20.99	20.85	
1.4	64QAM	1	5	20.93	21.00	20.93	
1.4	64QAM	3	0	20.62	20.77	20.65	
1.4	64QAM	3	1	20.50	20.59	20.62	
1.4	64QAM	3	3	20.57	20.73	20.58	
1.4	64QAM	6	0	20.60	20.66	20.42	21.3
1.4	256QAM	1	0	18.71	18.83	18.66	20
1.4	256QAM	1	3	18.30	18.30	18.05	
1.4	256QAM	1	5	18.54	18.69	18.44	
1.4	256QAM	3	0	18.45	18.35	18.25	
1.4	256QAM	3	1	18.40	18.62	18.25	
1.4	256QAM	3	3	18.38	18.62	18.17	
1.4	256QAM	6	0	18.37	18.50	18.43	20



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.59	19.69	19.53	
20	QPSK	1	49	19.26	19.31	19.28	19.9
20	QPSK	1	99	19.49	19.52	19.48	
20	QPSK	50	0	19.53	19.55	19.59	
20	QPSK	50	24	19.54	19.60	19.53	19.9
20	QPSK	50	50	19.49	19.56	19.46	
20	QPSK	100	0	19.53	19.60	19.47	
20	16QAM	1	0	19.42	19.63	19.45	19.9
20	16QAM	1	49	19.31	19.33	19.58	
20	16QAM	1	99	19.59	19.66	19.63	
20	16QAM	50	0	19.45	19.62	19.58	19.9
20	16QAM	50	24	19.41	19.63	19.49	
20	16QAM	50	50	19.62	19.45	19.39	
20	16QAM	100	0	19.57	19.52	19.53	19.9
20	64QAM	1	0	19.45	19.42	19.53	
20	64QAM	1	49	19.68	19.35	19.45	
20	64QAM	1	99	19.58	19.46	19.58	19.9
20	64QAM	50	0	19.51	19.56	19.50	
20	64QAM	50	24	19.52	19.56	19.53	
20	64QAM	50	50	19.55	19.50	19.48	19.9
20	64QAM	100	0	19.54	19.56	19.51	
20	256QAM	1	0	19.24	19.30	19.28	
20	256QAM	1	49	18.92	19.16	18.98	19.9
20	256QAM	1	99	19.01	19.15	18.94	
20	256QAM	50	0	19.03	19.05	18.94	
20	256QAM	50	24	19.08	19.05	19.01	19.9
20	256QAM	50	50	19.01	19.06	18.86	
20	256QAM	100	0	19.10	19.09	19.03	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.55	19.64	19.38	
15	QPSK	1	37	19.12	19.27	19.09	19.9
15	QPSK	1	74	19.47	19.32	19.34	
15	QPSK	36	0	19.33	19.37	19.46	
15	QPSK	36	20	19.53	19.44	19.53	19.9
15	QPSK	36	39	19.34	19.47	19.37	
15	QPSK	75	0	19.34	19.58	19.41	
15	16QAM	1	0	19.35	19.61	19.32	19.9
15	16QAM	1	37	19.27	19.13	19.55	
15	16QAM	1	74	19.52	19.57	19.47	
15	16QAM	36	0	19.42	19.57	19.53	19.9
15	16QAM	36	20	19.23	19.52	19.44	
15	16QAM	36	39	19.46	19.38	19.35	
15	16QAM	75	0	19.56	19.42	19.51	19.9
15	64QAM	1	0	19.44	19.38	19.41	
15	64QAM	1	37	19.52	19.31	19.40	
15	64QAM	1	74	19.40	19.30	19.45	19.9
15	64QAM	36	0	19.45	19.52	19.36	
15	64QAM	36	20	19.40	19.36	19.52	
15	64QAM	36	39	19.40	19.36	19.48	19.9
15	64QAM	75	0	19.43	19.37	19.46	
15	256QAM	1	0	19.09	19.28	19.10	
15	256QAM	1	37	18.77	19.15	18.96	19.9
15	256QAM	1	74	18.99	19.09	18.92	
15	256QAM	36	0	18.88	19.05	18.81	
15	256QAM	36	20	18.89	18.96	18.86	19.9



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15	256QAM	36	39	18.93	19.03	18.84	Tune-up limit (dBm)
15	256QAM	75	0	19.04	18.92	18.92	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.54	19.55	19.42	19.9
10	QPSK	1	25	19.17	19.23	19.15	
10	QPSK	1	49	19.36	19.41	19.39	
10	QPSK	25	0	19.49	19.45	19.47	19.9
10	QPSK	25	12	19.52	19.57	19.43	
10	QPSK	25	25	19.29	19.48	19.43	
10	QPSK	50	0	19.50	19.55	19.47	
10	16QAM	1	0	19.22	19.50	19.27	19.9
10	16QAM	1	25	19.15	19.17	19.44	
10	16QAM	1	49	19.59	19.54	19.44	
10	16QAM	25	0	19.44	19.42	19.58	19.9
10	16QAM	25	12	19.34	19.43	19.30	
10	16QAM	25	25	19.53	19.27	19.39	
10	16QAM	50	0	19.43	19.44	19.51	
10	64QAM	1	0	19.42	19.25	19.33	19.9
10	64QAM	1	25	19.61	19.30	19.40	
10	64QAM	1	49	19.47	19.27	19.58	
10	64QAM	25	0	19.51	19.49	19.50	19.9
10	64QAM	25	12	19.50	19.44	19.33	
10	64QAM	25	25	19.48	19.44	19.30	
10	64QAM	50	0	19.51	19.44	19.47	
10	256QAM	1	0	19.19	19.22	19.26	19.9
10	256QAM	1	25	18.84	19.06	18.93	
10	256QAM	1	49	18.83	19.03	18.75	
10	256QAM	25	0	18.88	18.90	18.75	19.9
10	256QAM	25	12	18.95	18.93	18.95	
10	256QAM	25	25	19.00	18.86	18.70	
10	256QAM	50	0	18.97	19.05	18.85	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.41	19.62	19.37	19.9
5	QPSK	1	12	19.26	19.29	19.18	
5	QPSK	1	24	19.49	19.42	19.40	
5	QPSK	12	0	19.41	19.46	19.43	19.9
5	QPSK	12	7	19.36	19.48	19.34	
5	QPSK	12	13	19.45	19.41	19.46	
5	QPSK	25	0	19.44	19.49	19.37	
5	16QAM	1	0	19.25	19.48	19.38	19.9
5	16QAM	1	12	19.19	19.26	19.50	
5	16QAM	1	24	19.56	19.58	19.48	
5	16QAM	12	0	19.28	19.58	19.47	19.9
5	16QAM	12	7	19.35	19.44	19.32	
5	16QAM	12	13	19.43	19.42	19.35	
5	16QAM	25	0	19.55	19.38	19.35	
5	64QAM	1	0	19.39	19.32	19.42	19.9
5	64QAM	1	12	19.56	19.33	19.43	
5	64QAM	1	24	19.48	19.44	19.46	
5	64QAM	12	0	19.31	19.56	19.39	19.9
5	64QAM	12	7	19.39	19.47	19.53	
5	64QAM	12	13	19.35	19.43	19.33	
5	64QAM	25	0	19.42	19.56	19.32	
5	256QAM	1	0	19.24	19.25	19.10	19.9
5	256QAM	1	12	18.91	19.11	18.93	
5	256QAM	1	24	18.96	19.05	18.92	
5	256QAM	12	0	19.00	19.00	18.89	19.9
5	256QAM	12	7	18.92	18.93	18.82	
5	256QAM	12	13	18.88	18.97	18.80	
5	256QAM	25	0	18.94	19.02	18.95	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.53	19.53	19.46	19.9
3	QPSK	1	8	19.13	19.14	19.12	
3	QPSK	1	14	19.46	19.35	19.30	
3	QPSK	8	0	19.45	19.45	19.53	19.9
3	QPSK	8	4	19.41	19.54	19.47	
3	QPSK	8	7	19.43	19.55	19.34	
3	QPSK	15	0	19.49	19.55	19.46	
3	16QAM	1	0	19.34	19.43	19.40	19.9
3	16QAM	1	8	19.15	19.28	19.46	
3	16QAM	1	14	19.53	19.55	19.58	
3	16QAM	8	0	19.40	19.53	19.41	19.9
3	16QAM	8	4	19.34	19.45	19.44	
3	16QAM	8	7	19.55	19.27	19.32	
3	16QAM	15	0	19.52	19.47	19.37	
3	64QAM	1	0	19.31	19.37	19.41	19.9
3	64QAM	1	8	19.56	19.35	19.25	
3	64QAM	1	14	19.45	19.36	19.47	
3	64QAM	8	0	19.35	19.48	19.36	19.9
3	64QAM	8	4	19.43	19.43	19.46	
3	64QAM	8	7	19.37	19.47	19.29	
3	64QAM	15	0	19.36	19.51	19.31	
3	256QAM	1	0	19.24	19.20	19.18	19.9
3	256QAM	1	8	18.88	18.96	18.89	
3	256QAM	1	14	18.82	18.99	18.80	
3	256QAM	8	0	19.02	19.00	18.75	19.9
3	256QAM	8	4	18.88	18.98	18.82	
3	256QAM	8	7	18.82	18.86	18.71	
3	256QAM	15	0	19.05	18.97	18.92	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.53	19.59	19.51	19.9
1.4	QPSK	1	3	19.19	19.20	19.26	
1.4	QPSK	1	5	19.32	19.47	19.41	
1.4	QPSK	3	0	19.34	19.48	19.52	
1.4	QPSK	3	1	19.45	19.44	19.53	
1.4	QPSK	3	3	19.31	19.44	19.32	
1.4	QPSK	6	0	19.47	19.57	19.42	19.9
1.4	16QAM	1	0	19.34	19.53	19.33	19.9
1.4	16QAM	1	3	19.13	19.32	19.50	
1.4	16QAM	1	5	19.51	19.46	19.60	
1.4	16QAM	3	0	19.43	19.47	19.49	
1.4	16QAM	3	1	19.35	19.47	19.32	
1.4	16QAM	3	3	19.44	19.30	19.36	
1.4	16QAM	6	0	19.43	19.52	19.33	19.9
1.4	64QAM	1	0	19.30	19.27	19.49	19.9
1.4	64QAM	1	3	19.50	19.23	19.43	
1.4	64QAM	1	5	19.41	19.41	19.48	
1.4	64QAM	3	0	19.34	19.44	19.43	
1.4	64QAM	3	1	19.39	19.36	19.47	
1.4	64QAM	3	3	19.43	19.31	19.30	
1.4	64QAM	6	0	19.44	19.55	19.37	19.9
1.4	256QAM	1	0	19.14	19.11	19.13	19.9
1.4	256QAM	1	3	18.90	19.10	18.94	
1.4	256QAM	1	5	18.97	18.99	18.75	
1.4	256QAM	3	0	18.89	18.95	18.91	
1.4	256QAM	3	1	18.97	19.02	18.90	
1.4	256QAM	3	3	18.83	18.99	18.67	
1.4	256QAM	6	0	18.96	18.92	18.91	19.9



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.83	23.82	23.90	
20	QPSK	1	49	23.47	23.54	23.68	23.9
20	QPSK	1	99	23.73	23.78	23.63	
20	QPSK	50	0	22.60	22.76	22.79	
20	QPSK	50	24	22.69	22.75	22.64	23.9
20	QPSK	50	50	22.59	22.71	22.57	
20	QPSK	100	0	22.63	22.79	22.68	
20	16QAM	1	0	23.07	23.19	23.03	23.9
20	16QAM	1	49	22.87	23.07	22.97	
20	16QAM	1	99	23.02	23.08	22.95	
20	16QAM	50	0	21.70	21.74	21.78	23
20	16QAM	50	24	21.77	21.69	21.67	
20	16QAM	50	50	21.69	21.72	21.60	
20	16QAM	100	0	21.79	21.75	21.75	23
20	64QAM	1	0	22.07	22.03	22.06	
20	64QAM	1	49	22.03	22.03	22.06	
20	64QAM	1	99	22.05	21.98	22.00	22
20	64QAM	50	0	20.91	20.86	20.74	
20	64QAM	50	24	20.83	20.86	20.79	
20	64QAM	50	50	20.85	20.80	20.77	20
20	64QAM	100	0	20.80	20.88	20.82	
20	256QAM	1	0	18.90	18.93	19.00	
20	256QAM	1	49	18.79	18.85	18.83	20
20	256QAM	1	99	18.84	18.88	18.90	
20	256QAM	50	0	18.69	18.80	18.87	20
20	256QAM	50	24	18.75	18.83	18.80	
20	256QAM	50	50	18.77	18.85	18.84	
20	256QAM	100	0	18.73	18.79	18.80	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.83	23.74	23.86	23.9
15	QPSK	1	37	23.29	23.50	23.67	
15	QPSK	1	74	23.58	23.64	23.43	
15	QPSK	36	0	22.56	22.69	22.60	23.9
15	QPSK	36	20	22.51	22.74	22.59	
15	QPSK	36	39	22.51	22.71	22.37	
15	QPSK	75	0	22.58	22.59	22.60	23.9
15	16QAM	1	0	22.92	23.08	22.85	
15	16QAM	1	37	22.68	22.87	22.96	
15	16QAM	1	74	22.94	23.06	22.90	23
15	16QAM	36	0	21.67	21.71	21.63	
15	16QAM	36	20	21.58	21.66	21.64	
15	16QAM	36	39	21.58	21.66	21.45	23
15	16QAM	75	0	21.61	21.74	21.59	
15	64QAM	1	0	21.90	22.02	21.98	
15	64QAM	1	37	21.87	21.87	21.89	23
15	64QAM	1	74	22.01	21.83	21.82	
15	64QAM	36	0	20.88	20.74	20.57	
15	64QAM	36	20	20.67	20.67	20.59	22
15	64QAM	36	39	20.72	20.65	20.66	
15	64QAM	75	0	20.74	20.82	20.62	
15	256QAM	1	0	18.78	18.76	18.99	20
15	256QAM	1	37	18.63	18.76	18.69	
15	256QAM	1	74	18.69	18.85	18.90	
15	256QAM	36	0	18.64	18.72	18.73	20
15	256QAM	36	20	18.62	18.75	18.77	



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15	256QAM	36	39	18.57	18.75	18.71	Tune-up limit (dBm)
15	256QAM	75	0	18.54	18.62	18.65	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.70	23.77	23.83	23.9
10	QPSK	1	25	23.34	23.54	23.64	
10	QPSK	1	49	23.67	23.78	23.56	
10	QPSK	25	0	22.42	22.59	22.71	23.9
10	QPSK	25	12	22.66	22.60	22.62	
10	QPSK	25	25	22.42	22.64	22.39	
10	QPSK	50	0	22.57	22.63	22.63	
10	16QAM	1	0	22.95	23.19	23.00	23.9
10	16QAM	1	25	22.76	23.06	22.90	
10	16QAM	1	49	22.98	23.06	22.80	
10	16QAM	25	0	21.66	21.63	21.58	23
10	16QAM	25	12	21.76	21.62	21.60	
10	16QAM	25	25	21.66	21.54	21.51	
10	16QAM	50	0	21.74	21.73	21.69	
10	64QAM	1	0	21.91	21.87	21.98	23
10	64QAM	1	25	21.85	21.90	21.98	
10	64QAM	1	49	21.89	21.94	21.89	
10	64QAM	25	0	20.73	20.86	20.67	22
10	64QAM	25	12	20.78	20.78	20.68	
10	64QAM	25	25	20.68	20.77	20.65	
10	64QAM	50	0	20.66	20.85	20.65	
10	256QAM	1	0	18.86	18.73	18.90	20
10	256QAM	1	25	18.77	18.85	18.78	
10	256QAM	1	49	18.68	18.70	18.87	
10	256QAM	25	0	18.52	18.75	18.78	20
10	256QAM	25	12	18.64	18.68	18.74	
10	256QAM	25	25	18.63	18.67	18.67	
10	256QAM	50	0	18.65	18.65	18.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.77	23.64	23.76	23.9
5	QPSK	1	12	23.31	23.35	23.68	
5	QPSK	1	24	23.60	23.66	23.46	
5	QPSK	12	0	22.56	22.71	22.71	23.9
5	QPSK	12	7	22.63	22.61	22.58	
5	QPSK	12	13	22.57	22.54	22.52	
5	QPSK	25	0	22.44	22.72	22.67	
5	16QAM	1	0	22.97	23.11	23.01	23.9
5	16QAM	1	12	22.73	22.93	22.93	
5	16QAM	1	24	23.01	23.00	22.82	
5	16QAM	12	0	21.56	21.64	21.60	23
5	16QAM	12	7	21.64	21.59	21.56	
5	16QAM	12	13	21.51	21.64	21.44	
5	16QAM	25	0	21.60	21.57	21.66	
5	64QAM	1	0	22.07	21.98	21.93	23
5	64QAM	1	12	21.95	22.02	22.05	
5	64QAM	1	24	22.04	21.91	21.81	
5	64QAM	12	0	20.71	20.67	20.55	22
5	64QAM	12	7	20.70	20.85	20.62	
5	64QAM	12	13	20.76	20.78	20.75	
5	64QAM	25	0	20.78	20.75	20.63	
5	256QAM	1	0	18.77	18.79	18.96	20
5	256QAM	1	12	18.66	18.69	18.70	
5	256QAM	1	24	18.82	18.74	18.87	
5	256QAM	12	0	18.50	18.74	18.77	20
5	256QAM	12	7	18.75	18.83	18.66	
5	256QAM	12	13	18.62	18.83	18.65	
5	256QAM	25	0	18.61	18.79	18.79	
Channel				18615	18900	19185	Tune-up limit



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Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.67	23.70	23.87	23.9
3	QPSK	1	8	23.42	23.50	23.56	
3	QPSK	1	14	23.62	23.62	23.52	
3	QPSK	8	0	22.40	22.70	22.65	23.9
3	QPSK	8	4	22.54	22.56	22.60	
3	QPSK	8	7	22.43	22.52	22.55	
3	QPSK	15	0	22.62	22.75	22.51	
3	16QAM	1	0	22.98	23.17	23.02	23.9
3	16QAM	1	8	22.67	23.02	22.95	
3	16QAM	1	14	22.98	23.07	22.95	
3	16QAM	8	0	21.53	21.66	21.67	23
3	16QAM	8	4	21.70	21.55	21.61	
3	16QAM	8	7	21.59	21.69	21.44	
3	16QAM	15	0	21.68	21.74	21.58	
3	64QAM	1	0	21.90	21.84	21.86	23
3	64QAM	1	8	22.00	21.87	21.91	
3	64QAM	1	14	21.90	21.93	21.85	
3	64QAM	8	0	20.71	20.69	20.73	22
3	64QAM	8	4	20.76	20.71	20.74	
3	64QAM	8	7	20.73	20.60	20.65	
3	64QAM	15	0	20.65	20.81	20.81	
3	256QAM	1	0	18.87	18.73	18.87	20
3	256QAM	1	8	18.79	18.75	18.75	
3	256QAM	1	14	18.76	18.85	18.79	
3	256QAM	8	0	18.57	18.77	18.75	20
3	256QAM	8	4	18.63	18.67	18.69	
3	256QAM	8	7	18.67	18.75	18.84	
3	256QAM	15	0	18.58	18.68	18.76	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.66	23.73	23.87	23.9
1.4	QPSK	1	3	23.43	23.48	23.63	
1.4	QPSK	1	5	23.54	23.71	23.54	
1.4	QPSK	3	0	23.69	23.74	23.85	
1.4	QPSK	3	1	23.44	23.54	23.54	
1.4	QPSK	3	3	23.70	23.70	23.43	
1.4	QPSK	6	0	22.45	22.71	22.61	
1.4	16QAM	1	0	22.56	22.69	22.64	23.9
1.4	16QAM	1	3	22.53	22.60	22.50	
1.4	16QAM	1	5	22.43	22.69	22.56	
1.4	16QAM	3	0	22.93	23.12	22.85	
1.4	16QAM	3	1	22.72	22.97	22.83	
1.4	16QAM	3	3	22.90	22.91	22.75	
1.4	16QAM	6	0	21.53	21.71	21.69	23
1.4	64QAM	1	0	21.59	21.65	21.48	23
1.4	64QAM	1	3	21.49	21.68	21.40	
1.4	64QAM	1	5	21.69	21.62	21.75	
1.4	64QAM	3	0	21.94	21.99	21.90	
1.4	64QAM	3	1	22.01	21.88	21.97	
1.4	64QAM	3	3	22.01	21.83	21.86	
1.4	64QAM	6	0	20.85	20.78	20.67	22
1.4	256QAM	1	0	18.70	18.84	18.85	20
1.4	256QAM	1	3	18.76	18.80	18.80	
1.4	256QAM	1	5	18.81	18.73	18.83	
1.4	256QAM	3	0	18.58	18.77	18.79	
1.4	256QAM	3	1	18.73	18.69	18.75	
1.4	256QAM	3	3	18.60	18.78	18.75	
1.4	256QAM	6	0	18.71	18.76	18.69	20



<LTE Band 4_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.03	24.05	23.99	25
20	QPSK	1	49	23.97	23.99	23.78	
20	QPSK	1	99	23.92	23.94	23.91	
20	QPSK	50	0	23.01	23.02	22.99	24
20	QPSK	50	24	22.99	23.00	22.97	
20	QPSK	50	50	22.98	22.99	22.93	
20	QPSK	100	0	22.96	23.04	22.95	24
20	16QAM	1	0	23.23	23.28	23.22	
20	16QAM	1	49	23.13	23.28	23.10	
20	16QAM	1	99	23.14	23.14	23.21	23
20	16QAM	50	0	21.94	21.93	21.90	
20	16QAM	50	24	21.93	21.94	21.92	
20	16QAM	50	50	21.93	21.93	21.90	23
20	16QAM	100	0	21.96	21.98	21.92	
20	64QAM	1	0	22.18	22.13	22.14	
20	64QAM	1	49	22.06	22.04	21.98	22
20	64QAM	1	99	22.11	22.05	22.00	
20	64QAM	50	0	21.05	21.03	20.98	
20	64QAM	50	24	21.03	21.03	20.94	20
20	64QAM	50	50	20.99	20.99	20.91	
20	64QAM	100	0	21.01	20.98	20.90	
20	256QAM	1	0	19.22	19.22	19.10	20
20	256QAM	1	49	18.80	18.86	18.73	
20	256QAM	1	99	18.89	18.99	18.84	
20	256QAM	50	0	19.01	19.11	18.92	20
20	256QAM	50	24	18.92	19.01	18.89	
20	256QAM	50	50	18.80	18.90	18.68	
20	256QAM	100	0	18.94	19.01	18.85	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.89	24.02	23.81	25
15	QPSK	1	37	23.87	23.95	23.72	
15	QPSK	1	74	23.92	23.94	23.77	
15	QPSK	36	0	22.92	22.82	22.91	24
15	QPSK	36	20	22.87	22.81	22.85	
15	QPSK	36	39	22.78	22.93	22.76	
15	QPSK	75	0	22.80	23.02	22.76	24
15	16QAM	1	0	23.22	23.08	23.15	
15	16QAM	1	37	23.11	23.26	23.10	
15	16QAM	1	74	23.08	23.00	23.12	23
15	16QAM	36	0	21.78	21.79	21.72	
15	16QAM	36	20	21.93	21.80	21.75	
15	16QAM	36	39	21.85	21.79	21.87	23
15	16QAM	75	0	21.93	21.97	21.84	
15	64QAM	1	0	22.06	22.06	22.08	
15	64QAM	1	37	22.02	22.00	21.87	22
15	64QAM	1	74	22.09	21.91	21.89	
15	64QAM	36	0	21.01	20.88	20.85	
15	64QAM	36	20	20.89	21.02	20.78	20
15	64QAM	36	39	20.87	20.79	20.88	
15	64QAM	75	0	21.00	20.84	20.90	
15	256QAM	1	0	19.14	19.02	18.91	20
15	256QAM	1	37	18.73	18.86	18.53	
15	256QAM	1	74	18.80	18.92	18.76	
15	256QAM	36	0	18.88	19.02	18.88	20
15	256QAM	36	20	18.92	18.86	18.69	



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15	256QAM	36	39	18.63	18.71	18.57	Tune-up limit (dBm)
15	256QAM	75	0	18.77	18.89	18.75	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.94	23.85	23.89	25
10	QPSK	1	25	23.83	23.90	23.62	
10	QPSK	1	49	23.83	23.89	23.82	
10	QPSK	25	0	22.84	22.87	22.84	24
10	QPSK	25	12	22.93	22.86	22.91	
10	QPSK	25	25	22.95	22.84	22.89	
10	QPSK	50	0	22.90	22.91	22.78	
10	16QAM	1	0	23.08	23.22	23.04	24
10	16QAM	1	25	23.01	23.11	22.91	
10	16QAM	1	49	23.09	22.98	23.11	23
10	16QAM	25	0	21.83	21.73	21.79	
10	16QAM	25	12	21.81	21.80	21.90	
10	16QAM	25	25	21.85	21.88	21.71	
10	16QAM	50	0	21.82	21.86	21.89	23
10	64QAM	1	0	22.13	21.99	22.02	
10	64QAM	1	25	21.92	21.94	21.83	
10	64QAM	1	49	21.91	22.03	21.96	22
10	64QAM	25	0	21.03	20.98	20.93	
10	64QAM	25	12	20.86	21.03	20.85	
10	64QAM	25	25	20.88	20.89	20.80	
10	64QAM	50	0	20.98	20.94	20.88	20
10	256QAM	1	0	19.08	19.12	19.02	
10	256QAM	1	25	18.69	18.70	18.60	
10	256QAM	1	49	18.72	18.96	18.70	
10	256QAM	25	0	18.91	18.97	18.88	20
10	256QAM	25	12	18.79	18.97	18.76	
10	256QAM	25	25	18.70	18.79	18.55	
10	256QAM	50	0	18.74	18.81	18.75	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.95	23.90	23.83	25
5	QPSK	1	12	23.77	23.96	23.67	
5	QPSK	1	24	23.87	23.93	23.82	
5	QPSK	12	0	22.90	22.90	22.99	24
5	QPSK	12	7	22.96	22.91	22.81	
5	QPSK	12	13	22.90	22.99	22.84	
5	QPSK	25	0	22.91	22.85	22.94	
5	16QAM	1	0	23.12	23.08	23.13	24
5	16QAM	1	12	23.01	23.26	22.99	
5	16QAM	1	24	22.94	23.07	23.16	
5	16QAM	12	0	21.76	21.82	21.82	23
5	16QAM	12	7	21.76	21.91	21.73	
5	16QAM	12	13	21.93	21.75	21.70	
5	16QAM	25	0	21.76	21.83	21.81	
5	64QAM	1	0	22.18	21.99	22.05	23
5	64QAM	1	12	21.90	21.99	21.92	
5	64QAM	1	24	22.09	21.90	21.92	
5	64QAM	12	0	20.86	20.85	20.95	22
5	64QAM	12	7	20.89	20.85	20.92	
5	64QAM	12	13	20.80	20.85	20.83	
5	64QAM	25	0	20.92	20.86	20.72	
5	256QAM	1	0	19.11	19.11	18.93	20
5	256QAM	1	12	18.74	18.68	18.56	
5	256QAM	1	24	18.79	18.82	18.64	
5	256QAM	12	0	18.96	19.00	18.83	20
5	256QAM	12	7	18.82	18.97	18.86	
5	256QAM	12	13	18.71	18.90	18.61	
5	256QAM	25	0	18.79	18.89	18.71	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.98	23.94	23.94	25
3	QPSK	1	8	23.80	23.86	23.67	
3	QPSK	1	14	23.75	23.90	23.89	
3	QPSK	8	0	22.90	22.94	22.95	24
3	QPSK	8	4	22.82	22.80	22.97	
3	QPSK	8	7	22.79	22.87	22.84	
3	QPSK	15	0	22.83	23.02	22.80	24
3	16QAM	1	0	23.07	23.21	23.08	
3	16QAM	1	8	23.01	23.25	22.97	
3	16QAM	1	14	23.04	22.95	23.06	23
3	16QAM	8	0	21.90	21.73	21.84	
3	16QAM	8	4	21.89	21.89	21.89	
3	16QAM	8	7	21.92	21.73	21.88	23
3	16QAM	15	0	21.76	21.88	21.76	
3	64QAM	1	0	21.99	21.93	21.99	
3	64QAM	1	8	21.93	21.93	21.89	22
3	64QAM	1	14	22.10	21.85	21.89	
3	64QAM	8	0	20.94	21.03	20.93	
3	64QAM	8	4	20.90	20.93	20.82	20
3	64QAM	8	7	20.80	20.87	20.74	
3	64QAM	15	0	20.90	20.98	20.84	
3	256QAM	1	0	19.13	19.17	18.96	20
3	256QAM	1	8	18.76	18.80	18.56	
3	256QAM	1	14	18.80	18.99	18.77	
3	256QAM	8	0	18.91	18.97	18.73	20
3	256QAM	8	4	18.77	18.81	18.81	
3	256QAM	8	7	18.61	18.71	18.53	
3	256QAM	15	0	18.79	18.87	18.65	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	24.02	23.86	23.98	
1.4	QPSK	1	3	23.81	23.96	23.73	
1.4	QPSK	1	5	23.87	23.87	23.72	24
1.4	QPSK	3	0	23.93	24.00	23.90	
1.4	QPSK	3	1	23.92	23.84	23.59	
1.4	QPSK	3	3	23.82	23.75	23.80	24
1.4	QPSK	6	0	22.95	23.01	22.98	
1.4	16QAM	1	0	22.79	22.80	22.80	
1.4	16QAM	1	3	22.79	22.99	22.73	23
1.4	16QAM	1	5	22.95	22.91	22.85	
1.4	16QAM	3	0	23.04	23.18	23.06	
1.4	16QAM	3	1	23.03	23.28	23.00	23
1.4	16QAM	3	3	22.95	22.97	23.08	
1.4	16QAM	6	0	21.80	21.86	21.85	
1.4	64QAM	1	0	21.92	21.75	21.92	22
1.4	64QAM	1	3	21.76	21.85	21.81	
1.4	64QAM	1	5	21.78	21.79	21.77	
1.4	64QAM	3	0	22.09	22.01	22.00	20
1.4	64QAM	3	1	21.89	22.04	21.87	
1.4	64QAM	3	3	21.96	21.96	21.93	
1.4	64QAM	6	0	20.91	20.93	20.97	20
1.4	256QAM	1	0	19.21	19.06	18.98	
1.4	256QAM	1	3	18.76	18.71	18.54	
1.4	256QAM	1	5	18.74	18.82	18.78	20
1.4	256QAM	3	0	18.83	19.03	18.78	
1.4	256QAM	3	1	18.75	18.94	18.73	
1.4	256QAM	3	3	18.76	18.70	18.58	20
1.4	256QAM	6	0	18.74	19.00	18.74	



<LTE Band 4_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.42	20.51	20.51	
20	QPSK	1	49	20.52	20.44	20.71	21.7
20	QPSK	1	99	20.76	20.41	20.34	
20	QPSK	50	0	20.35	20.25	20.23	
20	QPSK	50	24	20.35	20.28	20.24	21.7
20	QPSK	50	50	20.31	20.28	20.24	
20	QPSK	100	0	20.42	20.26	20.30	
20	16QAM	1	0	20.48	20.29	20.31	21.7
20	16QAM	1	49	20.30	20.26	20.25	
20	16QAM	1	99	20.30	20.20	20.21	
20	16QAM	50	0	20.33	20.30	20.22	21.7
20	16QAM	50	24	20.26	20.22	20.18	
20	16QAM	50	50	20.21	20.21	20.27	
20	16QAM	100	0	20.36	20.22	20.18	21.7
20	64QAM	1	0	20.59	20.22	20.66	
20	64QAM	1	49	20.45	20.12	20.49	
20	64QAM	1	99	20.52	20.23	20.25	21.7
20	64QAM	50	0	20.37	20.26	20.22	
20	64QAM	50	24	20.33	20.29	20.22	
20	64QAM	50	50	20.26	20.30	20.22	20
20	64QAM	100	0	20.37	20.37	20.33	
20	256QAM	1	0	18.55	18.68	18.50	
20	256QAM	1	49	18.55	18.66	18.52	20
20	256QAM	1	99	18.47	18.53	18.40	
20	256QAM	50	0	18.41	18.59	18.37	20
20	256QAM	50	24	18.42	18.56	18.42	
20	256QAM	50	50	18.50	18.56	18.35	
20	256QAM	100	0	18.35	18.49	18.47	Tune-up limit (dBm)
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.33	20.46	20.40	21.7
15	QPSK	1	37	20.44	20.30	20.51	
15	QPSK	1	74	20.57	20.30	20.26	
15	QPSK	36	0	20.14	20.08	20.14	21.7
15	QPSK	36	20	20.15	20.09	20.09	
15	QPSK	36	39	20.21	20.10	20.12	
15	QPSK	75	0	20.21	20.07	20.22	21.7
15	16QAM	1	0	20.24	20.18	20.14	
15	16QAM	1	37	20.11	20.16	20.10	
15	16QAM	1	74	20.07	20.06	19.98	21.7
15	16QAM	36	0	20.14	20.06	20.02	
15	16QAM	36	20	20.20	20.14	20.04	
15	16QAM	36	39	20.14	20.14	20.21	21.7
15	16QAM	75	0	20.25	20.01	20.02	
15	64QAM	1	0	20.52	20.02	20.53	
15	64QAM	1	37	20.35	19.90	20.38	21.7
15	64QAM	1	74	20.42	20.11	20.01	
15	64QAM	36	0	20.31	20.10	19.99	
15	64QAM	36	20	20.16	20.20	20.12	21.7
15	64QAM	36	39	20.18	20.06	20.00	
15	64QAM	75	0	20.26	20.20	20.17	
15	256QAM	1	0	18.30	18.50	18.42	20
15	256QAM	1	37	18.35	18.52	18.33	
15	256QAM	1	74	18.27	18.40	18.34	
15	256QAM	36	0	18.28	18.49	18.25	20
15	256QAM	36	20	18.36	18.39	18.25	



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15	256QAM	36	39	18.28	18.42	18.11	Tune-up limit (dBm)
15	256QAM	75	0	18.28	18.44	18.37	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.19	20.29	20.42	21.7
10	QPSK	1	25	20.43	20.39	20.48	
10	QPSK	1	49	20.67	20.19	20.18	
10	QPSK	25	0	20.22	20.08	20.16	21.7
10	QPSK	25	12	20.13	20.18	20.17	
10	QPSK	25	25	20.14	20.05	20.12	
10	QPSK	50	0	20.25	20.15	20.11	
10	16QAM	1	0	20.32	20.14	20.08	21.7
10	16QAM	1	25	20.10	20.16	20.12	
10	16QAM	1	49	20.09	20.12	19.97	
10	16QAM	25	0	20.18	20.20	20.10	21.7
10	16QAM	25	12	20.21	20.03	20.05	
10	16QAM	25	25	20.08	19.99	20.22	
10	16QAM	50	0	20.29	20.12	20.01	
10	64QAM	1	0	20.50	20.10	20.43	21.7
10	64QAM	1	25	20.22	19.91	20.27	
10	64QAM	1	49	20.36	20.14	20.04	
10	64QAM	25	0	20.12	20.02	20.12	21.7
10	64QAM	25	12	20.26	20.18	20.12	
10	64QAM	25	25	20.04	20.11	20.17	
10	64QAM	50	0	20.29	20.17	20.16	
10	256QAM	1	0	18.40	18.55	18.43	20
10	256QAM	1	25	18.48	18.42	18.32	
10	256QAM	1	49	18.34	18.28	18.34	
10	256QAM	25	0	18.20	18.51	18.22	20
10	256QAM	25	12	18.22	18.37	18.33	
10	256QAM	25	25	18.32	18.47	18.21	
10	256QAM	50	0	18.30	18.27	18.42	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.27	20.44	20.28	21.7
5	QPSK	1	12	20.30	20.22	20.54	
5	QPSK	1	24	20.68	20.23	20.21	
5	QPSK	12	0	20.29	20.02	20.07	21.7
5	QPSK	12	7	20.17	20.08	20.10	
5	QPSK	12	13	20.21	20.23	20.17	
5	QPSK	25	0	20.33	20.05	20.16	
5	16QAM	1	0	20.34	20.22	20.24	21.7
5	16QAM	1	12	20.14	20.01	20.03	
5	16QAM	1	24	20.15	20.13	20.04	
5	16QAM	12	0	20.15	20.11	20.08	21.7
5	16QAM	12	7	20.15	20.14	19.94	
5	16QAM	12	13	20.02	20.15	20.06	
5	16QAM	25	0	20.31	20.05	19.99	
5	64QAM	1	0	20.36	20.04	20.49	21.7
5	64QAM	1	12	20.37	19.94	20.27	
5	64QAM	1	24	20.41	20.15	20.06	
5	64QAM	12	0	20.15	20.18	20.02	21.7
5	64QAM	12	7	20.19	20.24	20.16	
5	64QAM	12	13	20.07	20.22	20.17	
5	64QAM	25	0	20.30	20.28	20.13	
5	256QAM	1	0	18.35	18.47	18.38	20
5	256QAM	1	12	18.43	18.50	18.35	
5	256QAM	1	24	18.35	18.28	18.34	
5	256QAM	12	0	18.34	18.35	18.12	20
5	256QAM	12	7	18.25	18.43	18.30	
5	256QAM	12	13	18.25	18.35	18.23	
5	256QAM	25	0	18.10	18.41	18.31	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	20.30	20.36	20.40	21.7
3	QPSK	1	8	20.35	20.36	20.49	
3	QPSK	1	14	20.58	20.25	20.15	
3	QPSK	8	0	20.25	20.14	20.08	21.7
3	QPSK	8	4	20.20	20.18	20.03	
3	QPSK	8	7	20.22	20.21	19.99	
3	QPSK	15	0	20.18	20.07	20.06	
3	16QAM	1	0	20.29	20.07	20.14	21.7
3	16QAM	1	8	20.25	20.05	20.03	
3	16QAM	1	14	20.23	19.95	19.96	
3	16QAM	8	0	20.28	20.16	19.97	21.7
3	16QAM	8	4	20.09	20.06	19.97	
3	16QAM	8	7	20.14	20.02	20.15	
3	16QAM	15	0	20.28	19.99	19.95	
3	64QAM	1	0	20.45	20.03	20.43	21.7
3	64QAM	1	8	20.25	20.00	20.44	
3	64QAM	1	14	20.45	20.11	20.19	
3	64QAM	8	0	20.14	20.16	20.02	21.7
3	64QAM	8	4	20.23	20.14	20.13	
3	64QAM	8	7	20.06	20.24	20.00	
3	64QAM	15	0	20.29	20.29	20.16	
3	256QAM	1	0	18.38	18.43	18.31	20
3	256QAM	1	8	18.33	18.51	18.27	
3	256QAM	1	14	18.35	18.33	18.20	
3	256QAM	8	0	18.29	18.40	18.13	20
3	256QAM	8	4	18.37	18.44	18.27	
3	256QAM	8	7	18.29	18.37	18.18	
3	256QAM	15	0	18.10	18.28	18.32	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.21	20.32	20.26	21.7
1.4	QPSK	1	3	20.32	20.29	20.62	
1.4	QPSK	1	5	20.51	20.35	20.10	
1.4	QPSK	3	0	20.24	20.02	20.18	
1.4	QPSK	3	1	20.27	20.06	20.01	
1.4	QPSK	3	3	20.19	20.15	20.16	
1.4	QPSK	6	0	20.27	20.17	20.11	21.7
1.4	16QAM	1	0	20.34	20.06	20.08	21.7
1.4	16QAM	1	3	20.18	20.11	20.12	
1.4	16QAM	1	5	20.14	20.06	20.12	
1.4	16QAM	3	0	20.13	20.11	19.97	
1.4	16QAM	3	1	20.20	20.05	20.02	
1.4	16QAM	3	3	19.97	20.08	20.02	
1.4	16QAM	6	0	20.14	20.13	20.05	21.7
1.4	64QAM	1	0	20.45	20.07	20.52	21.7
1.4	64QAM	1	3	20.21	19.98	20.27	
1.4	64QAM	1	5	20.39	20.13	20.10	
1.4	64QAM	3	0	20.12	20.21	20.13	
1.4	64QAM	3	1	20.19	20.18	20.02	
1.4	64QAM	3	3	20.15	20.22	20.01	
1.4	64QAM	6	0	20.20	20.30	20.21	21.7
1.4	256QAM	1	0	18.42	18.43	18.42	20
1.4	256QAM	1	3	18.46	18.48	18.31	
1.4	256QAM	1	5	18.35	18.45	18.28	
1.4	256QAM	3	0	18.22	18.52	18.27	
1.4	256QAM	3	1	18.19	18.37	18.22	
1.4	256QAM	3	3	18.33	18.44	18.27	
1.4	256QAM	6	0	18.22	18.31	18.31	20



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.03	24.06	24.02	
20	QPSK	1	49	23.94	23.96	23.96	25
20	QPSK	1	99	24.02	23.94	23.98	
20	QPSK	50	0	22.98	23.05	23.02	
20	QPSK	50	24	22.97	23.02	23.00	24
20	QPSK	50	50	22.93	23.00	23.02	
20	QPSK	100	0	23.03	23.04	23.01	
20	16QAM	1	0	23.17	23.34	23.31	24
20	16QAM	1	49	23.08	23.18	23.15	
20	16QAM	1	99	23.03	23.11	23.10	
20	16QAM	50	0	21.99	21.93	21.92	23
20	16QAM	50	24	21.92	21.95	22.01	
20	16QAM	50	50	21.92	21.99	22.05	
20	16QAM	100	0	21.91	21.94	21.96	23
20	64QAM	1	0	22.06	22.07	22.10	
20	64QAM	1	49	22.00	21.93	22.14	
20	64QAM	1	99	22.12	22.25	22.26	22
20	64QAM	50	0	21.04	21.05	21.04	
20	64QAM	50	24	21.00	20.99	21.00	
20	64QAM	50	50	20.94	21.01	21.08	20
20	64QAM	100	0	21.01	21.08	21.06	
20	256QAM	1	0	19.13	19.21	19.17	
20	256QAM	1	49	19.11	19.03	19.16	20
20	256QAM	1	99	19.03	19.14	19.14	
20	256QAM	50	0	19.02	19.16	19.06	20
20	256QAM	50	24	18.98	19.07	19.15	
20	256QAM	50	50	19.04	19.01	19.07	
20	256QAM	100	0	19.06	19.20	18.99	Tune-up limit (dBm)
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.84	23.93	23.83	25
15	QPSK	1	37	23.93	23.96	23.87	
15	QPSK	1	74	23.88	23.86	23.97	
15	QPSK	36	0	22.85	22.95	22.84	24
15	QPSK	36	20	22.79	22.96	22.84	
15	QPSK	36	39	22.86	22.98	22.83	
15	QPSK	75	0	22.87	23.04	22.81	24
15	16QAM	1	0	23.17	23.22	23.31	
15	16QAM	1	37	22.88	23.08	23.01	
15	16QAM	1	74	22.95	23.08	23.09	23
15	16QAM	36	0	21.95	21.84	21.90	
15	16QAM	36	20	21.74	21.78	21.97	
15	16QAM	36	39	21.83	21.90	21.92	23
15	16QAM	75	0	21.88	21.89	21.84	
15	64QAM	1	0	22.04	22.04	21.94	
15	64QAM	1	37	21.84	21.81	21.96	22
15	64QAM	1	74	22.03	22.17	22.20	
15	64QAM	36	0	20.89	20.87	20.86	
15	64QAM	36	20	20.82	20.91	20.96	20
15	64QAM	36	39	20.74	20.94	21.05	
15	64QAM	75	0	20.92	20.96	20.93	
15	256QAM	1	0	18.99	19.19	19.16	20
15	256QAM	1	37	19.09	18.85	18.96	
15	256QAM	1	74	18.89	19.06	19.09	
15	256QAM	36	0	18.83	18.96	19.02	20
15	256QAM	36	20	18.90	18.89	19.09	



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15	256QAM	36	39	19.01	18.90	18.93	Tune-up limit (dBm)
15	256QAM	75	0	19.03	19.14	18.98	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.93	24.03	23.98	25
10	QPSK	1	25	23.75	23.89	23.83	
10	QPSK	1	49	23.93	23.78	23.86	
10	QPSK	25	0	22.94	22.86	22.82	24
10	QPSK	25	12	22.89	22.93	22.94	
10	QPSK	25	25	22.81	22.86	22.90	
10	QPSK	50	0	23.02	22.96	22.98	
10	16QAM	1	0	23.08	23.17	23.25	24
10	16QAM	1	25	23.02	23.00	23.06	
10	16QAM	1	49	22.83	22.99	23.00	23
10	16QAM	25	0	21.88	21.78	21.83	
10	16QAM	25	12	21.90	21.85	21.91	
10	16QAM	25	25	21.79	21.86	21.98	
10	16QAM	50	0	21.88	21.93	21.92	23
10	64QAM	1	0	21.95	22.05	21.95	
10	64QAM	1	25	21.81	21.76	22.02	
10	64QAM	1	49	22.05	22.17	22.15	22
10	64QAM	25	0	20.85	20.91	20.99	
10	64QAM	25	12	20.96	20.83	20.82	
10	64QAM	25	25	20.83	20.84	21.04	
10	64QAM	50	0	20.81	21.02	20.97	20
10	256QAM	1	0	19.00	19.08	19.08	
10	256QAM	1	25	18.98	18.95	19.04	
10	256QAM	1	49	19.02	18.98	19.10	
10	256QAM	25	0	18.99	19.15	18.89	20
10	256QAM	25	12	18.93	19.05	19.00	
10	256QAM	25	25	19.04	18.91	19.06	
10	256QAM	50	0	18.89	19.08	18.90	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.87	23.86	23.90	25
5	QPSK	1	12	23.87	23.78	23.93	
5	QPSK	1	24	23.88	23.88	23.86	
5	QPSK	12	0	22.83	23.00	22.83	24
5	QPSK	12	7	22.82	22.85	22.87	
5	QPSK	12	13	22.88	22.85	22.85	
5	QPSK	25	0	22.93	22.87	22.81	
5	16QAM	1	0	22.99	23.18	23.22	24
5	16QAM	1	12	23.02	23.03	23.13	
5	16QAM	1	24	23.00	23.05	23.06	
5	16QAM	12	0	21.94	21.73	21.85	23
5	16QAM	12	7	21.80	21.80	21.99	
5	16QAM	12	13	21.74	21.94	21.94	
5	16QAM	25	0	21.82	21.84	21.78	
5	64QAM	1	0	21.88	21.89	21.92	23
5	64QAM	1	12	21.95	21.81	22.07	
5	64QAM	1	24	22.11	22.16	22.24	
5	64QAM	12	0	20.93	20.99	20.85	22
5	64QAM	12	7	20.80	20.83	20.98	
5	64QAM	12	13	20.90	20.97	21.06	
5	64QAM	25	0	20.95	20.90	21.06	
5	256QAM	1	0	19.11	19.07	19.06	20
5	256QAM	1	12	19.11	19.02	19.08	
5	256QAM	1	24	18.92	18.94	18.95	
5	256QAM	12	0	18.85	19.02	18.91	20
5	256QAM	12	7	18.89	18.94	18.96	
5	256QAM	12	13	18.95	18.94	18.94	
5	256QAM	25	0	18.95	19.17	18.93	Tune-up limit
Channel				19965	20175	20385	



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	24.02	23.96	24.00	25
3	QPSK	1	8	23.85	23.95	23.92	
3	QPSK	1	14	24.02	23.91	23.85	
3	QPSK	8	0	22.97	22.92	22.93	24
3	QPSK	8	4	22.93	22.98	22.94	
3	QPSK	8	7	22.93	22.96	23.02	
3	QPSK	15	0	22.92	22.96	22.92	
3	16QAM	1	0	23.13	23.27	23.15	24
3	16QAM	1	8	22.92	23.12	23.04	
3	16QAM	1	14	23.02	23.01	22.99	
3	16QAM	8	0	21.93	21.91	21.83	23
3	16QAM	8	4	21.75	21.88	21.87	
3	16QAM	8	7	21.74	21.99	22.03	
3	16QAM	15	0	21.78	21.75	21.84	
3	64QAM	1	0	21.89	21.96	22.03	23
3	64QAM	1	8	21.95	21.83	22.02	
3	64QAM	1	14	22.08	22.20	22.17	
3	64QAM	8	0	20.93	20.85	20.92	22
3	64QAM	8	4	20.92	20.82	20.94	
3	64QAM	8	7	20.76	20.97	21.03	
3	64QAM	15	0	21.01	20.89	21.03	
3	256QAM	1	0	19.11	19.04	19.08	20
3	256QAM	1	8	18.93	18.87	18.97	
3	256QAM	1	14	19.01	18.98	19.12	
3	256QAM	8	0	18.94	19.05	18.95	20
3	256QAM	8	4	18.92	18.91	19.10	
3	256QAM	8	7	18.91	18.96	18.95	
3	256QAM	15	0	18.94	19.15	18.79	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.98	23.86	23.90	25
1.4	QPSK	1	3	23.84	23.83	23.78	
1.4	QPSK	1	5	23.86	23.74	23.89	
1.4	QPSK	3	0	24.03	24.05	23.85	
1.4	QPSK	3	1	23.77	23.86	23.90	
1.4	QPSK	3	3	23.91	23.90	23.92	
1.4	QPSK	6	0	22.88	23.02	22.95	24
1.4	16QAM	1	0	22.80	22.86	22.82	24
1.4	16QAM	1	3	22.83	22.99	22.88	
1.4	16QAM	1	5	22.90	22.87	22.87	
1.4	16QAM	3	0	23.05	23.21	23.16	
1.4	16QAM	3	1	22.88	23.12	23.10	
1.4	16QAM	3	3	22.92	23.01	23.02	23
1.4	16QAM	6	0	21.82	21.80	21.91	
1.4	64QAM	1	0	21.72	21.87	21.82	23
1.4	64QAM	1	3	21.90	21.82	21.92	
1.4	64QAM	1	5	21.75	21.85	21.90	
1.4	64QAM	3	0	21.86	21.96	22.02	
1.4	64QAM	3	1	21.92	21.75	22.11	
1.4	64QAM	3	3	22.02	22.23	22.06	22
1.4	64QAM	6	0	20.96	20.91	20.95	
1.4	256QAM	1	0	18.93	19.08	19.13	20
1.4	256QAM	1	3	19.01	18.90	19.04	
1.4	256QAM	1	5	18.87	19.03	18.99	
1.4	256QAM	3	0	19.00	19.01	18.96	
1.4	256QAM	3	1	18.85	18.92	18.96	
1.4	256QAM	3	3	18.85	18.98	18.90	20
1.4	256QAM	6	0	18.91	19.00	18.79	

<LTE Band 4_Ant 5_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.71	23.84	23.81	25
20	QPSK	1	49	23.70	23.80	23.76	
20	QPSK	1	99	23.65	23.74	23.75	
20	QPSK	50	0	22.73	22.86	22.81	24
20	QPSK	50	24	22.72	22.54	22.68	
20	QPSK	50	50	22.73	22.82	22.80	
20	QPSK	100	0	22.74	22.80	22.74	
20	16QAM	1	0	23.14	23.18	22.93	24
20	16QAM	1	49	22.98	22.94	22.97	
20	16QAM	1	99	22.86	23.09	23.04	
20	16QAM	50	0	21.71	21.80	21.82	23
20	16QAM	50	24	21.61	21.80	21.71	
20	16QAM	50	50	21.60	21.79	21.80	
20	16QAM	100	0	21.64	21.78	21.73	
20	64QAM	1	0	21.92	21.98	21.95	23
20	64QAM	1	49	21.87	22.02	22.00	
20	64QAM	1	99	21.94	21.94	22.11	
20	64QAM	50	0	20.81	20.82	20.82	22
20	64QAM	50	24	20.83	20.81	20.82	
20	64QAM	50	50	20.81	20.82	20.82	
20	64QAM	100	0	20.80	20.82	20.78	
20	256QAM	1	0	18.90	18.95	18.89	20
20	256QAM	1	49	18.71	18.94	18.72	
20	256QAM	1	99	18.90	18.77	18.69	
20	256QAM	50	0	18.90	18.76	18.74	20
20	256QAM	50	24	18.77	18.75	18.85	
20	256QAM	50	50	18.76	18.94	18.84	
20	256QAM	100	0	18.84	18.91	18.79	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.67	23.70	23.74	25
15	QPSK	1	37	23.57	23.64	23.74	
15	QPSK	1	74	23.60	23.67	23.59	
15	QPSK	36	0	22.62	22.80	22.72	24
15	QPSK	36	20	22.53	22.41	22.68	
15	QPSK	36	39	22.55	22.76	22.65	
15	QPSK	75	0	22.63	22.73	22.60	
15	16QAM	1	0	23.02	23.04	22.79	24
15	16QAM	1	37	22.87	22.82	22.81	
15	16QAM	1	74	22.77	23.03	22.97	
15	16QAM	36	0	21.64	21.79	21.78	23
15	16QAM	36	20	21.54	21.63	21.51	
15	16QAM	36	39	21.44	21.76	21.75	
15	16QAM	75	0	21.56	21.68	21.70	
15	64QAM	1	0	21.74	21.94	21.91	23
15	64QAM	1	37	21.72	21.83	21.96	
15	64QAM	1	74	21.85	21.89	21.92	
15	64QAM	36	0	20.67	20.66	20.65	22
15	64QAM	36	20	20.64	20.81	20.62	
15	64QAM	36	39	20.66	20.63	20.67	
15	64QAM	75	0	20.78	20.81	20.77	
15	256QAM	1	0	18.77	18.86	18.88	20
15	256QAM	1	37	18.71	18.75	18.68	
15	256QAM	1	74	18.78	18.62	18.69	
15	256QAM	36	0	18.78	18.64	18.54	20
15	256QAM	36	20	18.61	18.56	18.67	
15	256QAM	36	39	18.58	18.74	18.68	



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15	256QAM	75	0	18.75	18.75	18.62	Tune-up limit (dBm)
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.51	23.79	23.80	25
10	QPSK	1	25	23.66	23.80	23.61	
10	QPSK	1	49	23.50	23.55	23.71	
10	QPSK	25	0	22.65	22.79	22.81	24
10	QPSK	25	12	22.60	22.44	22.58	
10	QPSK	25	25	22.69	22.67	22.76	
10	QPSK	50	0	22.72	22.67	22.54	24
10	16QAM	1	0	22.95	23.03	22.88	
10	16QAM	1	25	22.94	22.74	22.92	
10	16QAM	1	49	22.70	23.03	22.90	23
10	16QAM	25	0	21.55	21.80	21.76	
10	16QAM	25	12	21.42	21.67	21.51	
10	16QAM	25	25	21.44	21.66	21.69	23
10	16QAM	50	0	21.46	21.76	21.63	
10	64QAM	1	0	21.79	21.79	21.89	
10	64QAM	1	25	21.71	21.94	21.96	23
10	64QAM	1	49	21.94	21.74	22.10	
10	64QAM	25	0	20.69	20.62	20.71	
10	64QAM	25	12	20.72	20.73	20.74	22
10	64QAM	25	25	20.81	20.74	20.74	
10	64QAM	50	0	20.77	20.75	20.58	
10	256QAM	1	0	18.71	18.93	18.86	20
10	256QAM	1	25	18.65	18.89	18.64	
10	256QAM	1	49	18.77	18.61	18.49	
10	256QAM	25	0	18.78	18.57	18.59	20
10	256QAM	25	12	18.60	18.62	18.68	
10	256QAM	25	25	18.64	18.83	18.81	
10	256QAM	50	0	18.81	18.76	18.61	Tune-up limit (dBm)
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.58	23.81	23.72	25
5	QPSK	1	12	23.60	23.74	23.64	
5	QPSK	1	24	23.46	23.56	23.63	
5	QPSK	12	0	22.67	22.86	22.75	24
5	QPSK	12	7	22.65	22.34	22.51	
5	QPSK	12	13	22.53	22.75	22.62	
5	QPSK	25	0	22.55	22.67	22.73	24
5	16QAM	1	0	23.00	23.11	22.86	
5	16QAM	1	12	22.86	22.91	22.84	
5	16QAM	1	24	22.67	22.94	22.91	23
5	16QAM	12	0	21.55	21.69	21.69	
5	16QAM	12	7	21.50	21.66	21.70	
5	16QAM	12	13	21.42	21.71	21.64	23
5	16QAM	25	0	21.61	21.77	21.69	
5	64QAM	1	0	21.81	21.82	21.85	
5	64QAM	1	12	21.80	21.97	21.86	22
5	64QAM	1	24	21.93	21.90	21.99	
5	64QAM	12	0	20.64	20.73	20.62	
5	64QAM	12	7	20.81	20.68	20.80	20
5	64QAM	12	13	20.68	20.66	20.64	
5	64QAM	25	0	20.70	20.76	20.76	
5	256QAM	1	0	18.72	18.93	18.81	20
5	256QAM	1	12	18.63	18.86	18.72	
5	256QAM	1	24	18.71	18.70	18.60	
5	256QAM	12	0	18.70	18.70	18.63	20
5	256QAM	12	7	18.72	18.56	18.73	
5	256QAM	12	13	18.60	18.78	18.65	
5	256QAM	25	0	18.82	18.71	18.73	Tune-up limit (dBm)
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	



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3	QPSK	1	0	23.65	23.71	23.66	25
3	QPSK	1	8	23.68	23.76	23.67	
3	QPSK	1	14	23.50	23.67	23.57	
3	QPSK	8	0	22.53	22.75	22.64	24
3	QPSK	8	4	22.71	22.39	22.53	
3	QPSK	8	7	22.67	22.76	22.76	
3	QPSK	15	0	22.71	22.80	22.60	24
3	16QAM	1	0	23.05	23.05	22.82	
3	16QAM	1	8	22.97	22.88	22.94	
3	16QAM	1	14	22.70	23.01	22.97	23
3	16QAM	8	0	21.58	21.73	21.72	
3	16QAM	8	4	21.53	21.62	21.58	
3	16QAM	8	7	21.41	21.76	21.60	23
3	16QAM	15	0	21.48	21.69	21.56	
3	64QAM	1	0	21.73	21.78	21.75	
3	64QAM	1	8	21.70	22.02	21.95	22
3	64QAM	1	14	21.76	21.89	22.02	
3	64QAM	8	0	20.76	20.70	20.81	
3	64QAM	8	4	20.75	20.78	20.81	20
3	64QAM	8	7	20.77	20.72	20.63	
3	64QAM	15	0	20.79	20.62	20.76	
3	256QAM	1	0	18.73	18.84	18.72	20
3	256QAM	1	8	18.71	18.93	18.65	
3	256QAM	1	14	18.88	18.57	18.67	
3	256QAM	8	0	18.90	18.70	18.63	20
3	256QAM	8	4	18.71	18.73	18.79	
3	256QAM	8	7	18.56	18.93	18.83	
3	256QAM	15	0	18.77	18.80	18.70	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	23.60	23.80	23.73	
1.4	QPSK	1	3	23.64	23.61	23.59	24
1.4	QPSK	1	5	23.51	23.67	23.63	
1.4	QPSK	3	0	23.63	23.79	23.71	
1.4	QPSK	3	1	23.58	23.66	23.60	24
1.4	QPSK	3	3	23.53	23.68	23.65	
1.4	QPSK	6	0	22.68	22.79	22.65	
1.4	16QAM	1	0	22.64	22.42	22.49	23
1.4	16QAM	1	3	22.71	22.77	22.70	
1.4	16QAM	1	5	22.58	22.79	22.59	
1.4	16QAM	3	0	23.00	23.05	22.73	23
1.4	16QAM	3	1	22.97	22.76	22.86	
1.4	16QAM	3	3	22.71	23.07	22.95	
1.4	16QAM	6	0	21.69	21.60	21.79	22
1.4	64QAM	1	0	21.41	21.64	21.51	
1.4	64QAM	1	3	21.46	21.66	21.79	
1.4	64QAM	1	5	21.55	21.70	21.63	20
1.4	64QAM	3	0	21.87	21.85	21.81	
1.4	64QAM	3	1	21.80	21.88	21.92	
1.4	64QAM	3	3	21.89	21.80	21.95	20
1.4	64QAM	6	0	20.67	20.63	20.80	
1.4	256QAM	1	0	18.79	18.78	18.70	
1.4	256QAM	1	3	18.52	18.79	18.63	20
1.4	256QAM	1	5	18.88	18.77	18.59	
1.4	256QAM	3	0	18.78	18.65	18.66	
1.4	256QAM	3	1	18.66	18.72	18.71	20
1.4	256QAM	3	3	18.65	18.78	18.68	
1.4	256QAM	6	0	18.72	18.91	18.60	20

**<LTE Band 4_Ant 2_Index 3>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.03	24.05	23.99	25
20	QPSK	1	49	23.97	23.99	23.78	
20	QPSK	1	99	23.92	23.94	23.91	
20	QPSK	50	0	23.01	23.02	22.99	24
20	QPSK	50	24	22.99	23.00	22.97	
20	QPSK	50	50	22.98	22.99	22.93	
20	QPSK	100	0	22.96	23.04	22.95	
20	16QAM	1	0	23.23	23.28	23.22	24
20	16QAM	1	49	23.13	23.28	23.10	
20	16QAM	1	99	23.14	23.14	23.21	
20	16QAM	50	0	21.94	21.93	21.90	23
20	16QAM	50	24	21.93	21.94	21.92	
20	16QAM	50	50	21.93	21.93	21.90	
20	16QAM	100	0	21.96	21.98	21.92	
20	64QAM	1	0	22.18	22.13	22.14	23
20	64QAM	1	49	22.06	22.04	21.98	
20	64QAM	1	99	22.11	22.05	22.00	
20	64QAM	50	0	21.05	21.03	20.98	22
20	64QAM	50	24	21.03	21.03	20.94	
20	64QAM	50	50	20.99	20.99	20.91	
20	64QAM	100	0	21.01	20.98	20.90	
20	256QAM	1	0	19.22	19.22	19.10	20
20	256QAM	1	49	18.80	18.86	18.73	
20	256QAM	1	99	18.89	18.99	18.84	
20	256QAM	50	0	19.01	19.11	18.92	20
20	256QAM	50	24	18.92	19.01	18.89	
20	256QAM	50	50	18.80	18.90	18.68	
20	256QAM	100	0	18.94	19.01	18.85	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.89	24.02	23.81	25
15	QPSK	1	37	23.87	23.95	23.72	
15	QPSK	1	74	23.92	23.94	23.77	
15	QPSK	36	0	22.92	22.82	22.91	24
15	QPSK	36	20	22.87	22.81	22.85	
15	QPSK	36	39	22.78	22.93	22.76	
15	QPSK	75	0	22.80	23.02	22.76	
15	16QAM	1	0	23.22	23.08	23.15	24
15	16QAM	1	37	23.11	23.26	23.10	
15	16QAM	1	74	23.08	23.00	23.12	
15	16QAM	36	0	21.78	21.79	21.72	23
15	16QAM	36	20	21.93	21.80	21.75	
15	16QAM	36	39	21.85	21.79	21.87	
15	16QAM	75	0	21.93	21.97	21.84	
15	64QAM	1	0	22.06	22.06	22.08	23
15	64QAM	1	37	22.02	22.00	21.87	
15	64QAM	1	74	22.09	21.91	21.89	
15	64QAM	36	0	21.01	20.88	20.85	22
15	64QAM	36	20	20.89	21.02	20.78	
15	64QAM	36	39	20.87	20.79	20.88	
15	64QAM	75	0	21.00	20.84	20.90	
15	256QAM	1	0	19.14	19.02	18.91	20
15	256QAM	1	37	18.73	18.86	18.53	
15	256QAM	1	74	18.80	18.92	18.76	
15	256QAM	36	0	18.88	19.02	18.88	20
15	256QAM	36	20	18.92	18.86	18.69	



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15	256QAM	36	39	18.63	18.71	18.57	Tune-up limit (dBm)
15	256QAM	75	0	18.77	18.89	18.75	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.94	23.85	23.89	25
10	QPSK	1	25	23.83	23.90	23.62	
10	QPSK	1	49	23.83	23.89	23.82	
10	QPSK	25	0	22.84	22.87	22.84	24
10	QPSK	25	12	22.93	22.86	22.91	
10	QPSK	25	25	22.95	22.84	22.89	
10	QPSK	50	0	22.90	22.91	22.78	
10	16QAM	1	0	23.08	23.22	23.04	24
10	16QAM	1	25	23.01	23.11	22.91	
10	16QAM	1	49	23.09	22.98	23.11	23
10	16QAM	25	0	21.83	21.73	21.79	
10	16QAM	25	12	21.81	21.80	21.90	
10	16QAM	25	25	21.85	21.88	21.71	
10	16QAM	50	0	21.82	21.86	21.89	23
10	64QAM	1	0	22.13	21.99	22.02	
10	64QAM	1	25	21.92	21.94	21.83	
10	64QAM	1	49	21.91	22.03	21.96	22
10	64QAM	25	0	21.03	20.98	20.93	
10	64QAM	25	12	20.86	21.03	20.85	
10	64QAM	25	25	20.88	20.89	20.80	
10	64QAM	50	0	20.98	20.94	20.88	20
10	256QAM	1	0	19.08	19.12	19.02	
10	256QAM	1	25	18.69	18.70	18.60	
10	256QAM	1	49	18.72	18.96	18.70	
10	256QAM	25	0	18.91	18.97	18.88	20
10	256QAM	25	12	18.79	18.97	18.76	
10	256QAM	25	25	18.70	18.79	18.55	
10	256QAM	50	0	18.74	18.81	18.75	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.95	23.90	23.83	25
5	QPSK	1	12	23.77	23.96	23.67	
5	QPSK	1	24	23.87	23.93	23.82	
5	QPSK	12	0	22.90	22.90	22.99	24
5	QPSK	12	7	22.96	22.91	22.81	
5	QPSK	12	13	22.90	22.99	22.84	
5	QPSK	25	0	22.91	22.85	22.94	
5	16QAM	1	0	23.12	23.08	23.13	24
5	16QAM	1	12	23.01	23.26	22.99	
5	16QAM	1	24	22.94	23.07	23.16	
5	16QAM	12	0	21.76	21.82	21.82	
5	16QAM	12	7	21.76	21.91	21.73	23
5	16QAM	12	13	21.93	21.75	21.70	
5	16QAM	25	0	21.76	21.83	21.81	
5	64QAM	1	0	22.18	21.99	22.05	
5	64QAM	1	12	21.90	21.99	21.92	23
5	64QAM	1	24	22.09	21.90	21.92	
5	64QAM	12	0	20.86	20.85	20.95	
5	64QAM	12	7	20.89	20.85	20.92	
5	64QAM	12	13	20.80	20.85	20.83	22
5	64QAM	25	0	20.92	20.86	20.72	
5	256QAM	1	0	19.11	19.11	18.93	
5	256QAM	1	12	18.74	18.68	18.56	
5	256QAM	1	24	18.79	18.82	18.64	20
5	256QAM	12	0	18.96	19.00	18.83	
5	256QAM	12	7	18.82	18.97	18.86	
5	256QAM	12	13	18.71	18.90	18.61	
5	256QAM	25	0	18.79	18.89	18.71	Tune-up limit
Channel				19965	20175	20385	



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.98	23.94	23.94	25
3	QPSK	1	8	23.80	23.86	23.67	
3	QPSK	1	14	23.75	23.90	23.89	
3	QPSK	8	0	22.90	22.94	22.95	24
3	QPSK	8	4	22.82	22.80	22.97	
3	QPSK	8	7	22.79	22.87	22.84	
3	QPSK	15	0	22.83	23.02	22.80	24
3	16QAM	1	0	23.07	23.21	23.08	
3	16QAM	1	8	23.01	23.25	22.97	
3	16QAM	1	14	23.04	22.95	23.06	23
3	16QAM	8	0	21.90	21.73	21.84	
3	16QAM	8	4	21.89	21.89	21.89	
3	16QAM	8	7	21.92	21.73	21.88	23
3	16QAM	15	0	21.76	21.88	21.76	
3	64QAM	1	0	21.99	21.93	21.99	
3	64QAM	1	8	21.93	21.93	21.89	22
3	64QAM	1	14	22.10	21.85	21.89	
3	64QAM	8	0	20.94	21.03	20.93	
3	64QAM	8	4	20.90	20.93	20.82	20
3	64QAM	8	7	20.80	20.87	20.74	
3	64QAM	15	0	20.90	20.98	20.84	
3	256QAM	1	0	19.13	19.17	18.96	20
3	256QAM	1	8	18.76	18.80	18.56	
3	256QAM	1	14	18.80	18.99	18.77	
3	256QAM	8	0	18.91	18.97	18.73	20
3	256QAM	8	4	18.77	18.81	18.81	
3	256QAM	8	7	18.61	18.71	18.53	
3	256QAM	15	0	18.79	18.87	18.65	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	24.02	23.86	23.98	
1.4	QPSK	1	3	23.81	23.96	23.73	
1.4	QPSK	1	5	23.87	23.87	23.72	24
1.4	QPSK	3	0	23.93	24.00	23.90	
1.4	QPSK	3	1	23.92	23.84	23.59	
1.4	QPSK	3	3	23.82	23.75	23.80	24
1.4	QPSK	6	0	22.95	23.01	22.98	
1.4	16QAM	1	0	22.79	22.80	22.80	
1.4	16QAM	1	3	22.79	22.99	22.73	23
1.4	16QAM	1	5	22.95	22.91	22.85	
1.4	16QAM	3	0	23.04	23.18	23.06	
1.4	16QAM	3	1	23.03	23.28	23.00	23
1.4	16QAM	3	3	22.95	22.97	23.08	
1.4	16QAM	6	0	21.80	21.86	21.85	
1.4	64QAM	1	0	21.92	21.75	21.92	23
1.4	64QAM	1	3	21.76	21.85	21.81	
1.4	64QAM	1	5	21.78	21.79	21.77	
1.4	64QAM	3	0	22.09	22.01	22.00	22
1.4	64QAM	3	1	21.89	22.04	21.87	
1.4	64QAM	3	3	21.96	21.96	21.93	
1.4	64QAM	6	0	20.91	20.93	20.97	20
1.4	256QAM	1	0	19.21	19.06	18.98	
1.4	256QAM	1	3	18.76	18.71	18.54	
1.4	256QAM	1	5	18.74	18.82	18.78	20
1.4	256QAM	3	0	18.83	19.03	18.78	
1.4	256QAM	3	1	18.75	18.94	18.73	
1.4	256QAM	3	3	18.76	18.70	18.58	20
1.4	256QAM	6	0	18.74	19.00	18.74	

<LTE Band 4_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.42	20.51	20.51	21
20	QPSK	1	49	20.52	20.44	20.71	
20	QPSK	1	99	20.76	20.41	20.34	
20	QPSK	50	0	20.35	20.25	20.23	21
20	QPSK	50	24	20.35	20.28	20.24	
20	QPSK	50	50	20.31	20.28	20.24	
20	QPSK	100	0	20.42	20.26	20.30	
20	16QAM	1	0	20.48	20.29	20.31	21
20	16QAM	1	49	20.30	20.26	20.25	
20	16QAM	1	99	20.30	20.20	20.21	
20	16QAM	50	0	20.33	20.30	20.22	21
20	16QAM	50	24	20.26	20.22	20.18	
20	16QAM	50	50	20.21	20.21	20.27	
20	16QAM	100	0	20.36	20.22	20.18	
20	64QAM	1	0	20.59	20.22	20.66	21
20	64QAM	1	49	20.45	20.12	20.49	
20	64QAM	1	99	20.52	20.23	20.25	
20	64QAM	50	0	20.37	20.26	20.22	21
20	64QAM	50	24	20.33	20.29	20.22	
20	64QAM	50	50	20.26	20.30	20.22	
20	64QAM	100	0	20.37	20.37	20.33	
20	256QAM	1	0	18.55	18.68	18.50	20
20	256QAM	1	49	18.55	18.66	18.52	
20	256QAM	1	99	18.47	18.53	18.40	
20	256QAM	50	0	18.41	18.59	18.37	20
20	256QAM	50	24	18.42	18.56	18.42	
20	256QAM	50	50	18.50	18.56	18.35	
20	256QAM	100	0	18.35	18.49	18.47	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.33	20.46	20.40	21
15	QPSK	1	37	20.44	20.30	20.51	
15	QPSK	1	74	20.57	20.30	20.26	
15	QPSK	36	0	20.14	20.08	20.14	21
15	QPSK	36	20	20.15	20.09	20.09	
15	QPSK	36	39	20.21	20.10	20.12	
15	QPSK	75	0	20.21	20.07	20.22	
15	16QAM	1	0	20.24	20.18	20.14	21
15	16QAM	1	37	20.11	20.16	20.10	
15	16QAM	1	74	20.07	20.06	19.98	
15	16QAM	36	0	20.14	20.06	20.02	21
15	16QAM	36	20	20.20	20.14	20.04	
15	16QAM	36	39	20.14	20.14	20.21	
15	16QAM	75	0	20.25	20.01	20.02	
15	64QAM	1	0	20.52	20.02	20.53	21
15	64QAM	1	37	20.35	19.90	20.38	
15	64QAM	1	74	20.42	20.11	20.01	
15	64QAM	36	0	20.31	20.10	19.99	21
15	64QAM	36	20	20.16	20.20	20.12	
15	64QAM	36	39	20.18	20.06	20.00	
15	64QAM	75	0	20.26	20.20	20.17	
15	256QAM	1	0	18.30	18.50	18.42	20
15	256QAM	1	37	18.35	18.52	18.33	
15	256QAM	1	74	18.27	18.40	18.34	
15	256QAM	36	0	18.28	18.49	18.25	20
15	256QAM	36	20	18.36	18.39	18.25	



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15	256QAM	36	39	18.28	18.42	18.11	
15	256QAM	75	0	18.28	18.44	18.37	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.19	20.29	20.42	21
10	QPSK	1	25	20.43	20.39	20.48	
10	QPSK	1	49	20.67	20.19	20.18	
10	QPSK	25	0	20.22	20.08	20.16	21
10	QPSK	25	12	20.13	20.18	20.17	
10	QPSK	25	25	20.14	20.05	20.12	
10	QPSK	50	0	20.25	20.15	20.11	
10	16QAM	1	0	20.32	20.14	20.08	21
10	16QAM	1	25	20.10	20.16	20.12	
10	16QAM	1	49	20.09	20.12	19.97	
10	16QAM	25	0	20.18	20.20	20.10	21
10	16QAM	25	12	20.21	20.03	20.05	
10	16QAM	25	25	20.08	19.99	20.22	
10	16QAM	50	0	20.29	20.12	20.01	
10	64QAM	1	0	20.50	20.10	20.43	21
10	64QAM	1	25	20.22	19.91	20.27	
10	64QAM	1	49	20.36	20.14	20.04	
10	64QAM	25	0	20.12	20.02	20.12	21
10	64QAM	25	12	20.26	20.18	20.12	
10	64QAM	25	25	20.04	20.11	20.17	
10	64QAM	50	0	20.29	20.17	20.16	
10	256QAM	1	0	18.40	18.55	18.43	20
10	256QAM	1	25	18.48	18.42	18.32	
10	256QAM	1	49	18.34	18.28	18.34	
10	256QAM	25	0	18.20	18.51	18.22	20
10	256QAM	25	12	18.22	18.37	18.33	
10	256QAM	25	25	18.32	18.47	18.21	
10	256QAM	50	0	18.30	18.27	18.42	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.27	20.44	20.28	21
5	QPSK	1	12	20.30	20.22	20.54	
5	QPSK	1	24	20.68	20.23	20.21	
5	QPSK	12	0	20.29	20.02	20.07	21
5	QPSK	12	7	20.17	20.08	20.10	
5	QPSK	12	13	20.21	20.23	20.17	
5	QPSK	25	0	20.33	20.05	20.16	
5	16QAM	1	0	20.34	20.22	20.24	21
5	16QAM	1	12	20.14	20.01	20.03	
5	16QAM	1	24	20.15	20.13	20.04	
5	16QAM	12	0	20.15	20.11	20.08	21
5	16QAM	12	7	20.15	20.14	19.94	
5	16QAM	12	13	20.02	20.15	20.06	
5	16QAM	25	0	20.31	20.05	19.99	
5	64QAM	1	0	20.36	20.04	20.49	21
5	64QAM	1	12	20.37	19.94	20.27	
5	64QAM	1	24	20.41	20.15	20.06	
5	64QAM	12	0	20.15	20.18	20.02	21
5	64QAM	12	7	20.19	20.24	20.16	
5	64QAM	12	13	20.07	20.22	20.17	
5	64QAM	25	0	20.30	20.28	20.13	
5	256QAM	1	0	18.35	18.47	18.38	20
5	256QAM	1	12	18.43	18.50	18.35	
5	256QAM	1	24	18.35	18.28	18.34	
5	256QAM	12	0	18.34	18.35	18.12	20
5	256QAM	12	7	18.25	18.43	18.30	
5	256QAM	12	13	18.25	18.35	18.23	
5	256QAM	25	0	18.10	18.41	18.31	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	20.30	20.36	20.40	21
3	QPSK	1	8	20.35	20.36	20.49	
3	QPSK	1	14	20.58	20.25	20.15	
3	QPSK	8	0	20.25	20.14	20.08	21
3	QPSK	8	4	20.20	20.18	20.03	
3	QPSK	8	7	20.22	20.21	19.99	
3	QPSK	15	0	20.18	20.07	20.06	
3	16QAM	1	0	20.29	20.07	20.14	21
3	16QAM	1	8	20.25	20.05	20.03	
3	16QAM	1	14	20.23	19.95	19.96	
3	16QAM	8	0	20.28	20.16	19.97	21
3	16QAM	8	4	20.09	20.06	19.97	
3	16QAM	8	7	20.14	20.02	20.15	
3	16QAM	15	0	20.28	19.99	19.95	
3	64QAM	1	0	20.45	20.03	20.43	21
3	64QAM	1	8	20.25	20.00	20.44	
3	64QAM	1	14	20.45	20.11	20.19	
3	64QAM	8	0	20.14	20.16	20.02	21
3	64QAM	8	4	20.23	20.14	20.13	
3	64QAM	8	7	20.06	20.24	20.00	
3	64QAM	15	0	20.29	20.29	20.16	
3	256QAM	1	0	18.38	18.43	18.31	20
3	256QAM	1	8	18.33	18.51	18.27	
3	256QAM	1	14	18.35	18.33	18.20	
3	256QAM	8	0	18.29	18.40	18.13	20
3	256QAM	8	4	18.37	18.44	18.27	
3	256QAM	8	7	18.29	18.37	18.18	
3	256QAM	15	0	18.10	18.28	18.32	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.21	20.32	20.26	21
1.4	QPSK	1	3	20.32	20.29	20.62	
1.4	QPSK	1	5	20.51	20.35	20.10	
1.4	QPSK	3	0	20.24	20.02	20.18	
1.4	QPSK	3	1	20.27	20.06	20.01	
1.4	QPSK	3	3	20.19	20.15	20.16	
1.4	QPSK	6	0	20.27	20.17	20.11	21
1.4	16QAM	1	0	20.34	20.06	20.08	21
1.4	16QAM	1	3	20.18	20.11	20.12	
1.4	16QAM	1	5	20.14	20.06	20.12	
1.4	16QAM	3	0	20.13	20.11	19.97	
1.4	16QAM	3	1	20.20	20.05	20.02	
1.4	16QAM	3	3	19.97	20.08	20.02	
1.4	16QAM	6	0	20.14	20.13	20.05	21
1.4	64QAM	1	0	20.45	20.07	20.52	21
1.4	64QAM	1	3	20.21	19.98	20.27	
1.4	64QAM	1	5	20.39	20.13	20.10	
1.4	64QAM	3	0	20.12	20.21	20.13	
1.4	64QAM	3	1	20.19	20.18	20.02	
1.4	64QAM	3	3	20.15	20.22	20.01	
1.4	64QAM	6	0	20.20	20.30	20.21	21
1.4	256QAM	1	0	18.42	18.43	18.42	20
1.4	256QAM	1	3	18.46	18.48	18.31	
1.4	256QAM	1	5	18.35	18.45	18.28	
1.4	256QAM	3	0	18.22	18.52	18.27	
1.4	256QAM	3	1	18.19	18.37	18.22	
1.4	256QAM	3	3	18.33	18.44	18.27	
1.4	256QAM	6	0	18.22	18.31	18.31	20



<LTE Band 4_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.03	24.06	24.02	
20	QPSK	1	49	23.94	23.96	23.96	25
20	QPSK	1	99	24.02	23.94	23.98	
20	QPSK	50	0	22.98	23.05	23.02	
20	QPSK	50	24	22.97	23.02	23.00	24
20	QPSK	50	50	22.93	23.00	23.02	
20	QPSK	100	0	23.03	23.04	23.01	
20	16QAM	1	0	23.17	23.34	23.31	24
20	16QAM	1	49	23.08	23.18	23.15	
20	16QAM	1	99	23.03	23.11	23.10	
20	16QAM	50	0	21.99	21.93	21.92	23
20	16QAM	50	24	21.92	21.95	22.01	
20	16QAM	50	50	21.92	21.99	22.05	
20	16QAM	100	0	21.91	21.94	21.96	23
20	64QAM	1	0	22.06	22.07	22.10	
20	64QAM	1	49	22.00	21.93	22.14	
20	64QAM	1	99	22.12	22.25	22.26	22
20	64QAM	50	0	21.04	21.05	21.04	
20	64QAM	50	24	21.00	20.99	21.00	
20	64QAM	50	50	20.94	21.01	21.08	20
20	64QAM	100	0	21.01	21.08	21.06	
20	256QAM	1	0	19.13	19.21	19.17	
20	256QAM	1	49	19.11	19.03	19.16	20
20	256QAM	1	99	19.03	19.14	19.14	
20	256QAM	50	0	19.02	19.16	19.06	20
20	256QAM	50	24	18.98	19.07	19.15	
20	256QAM	50	50	19.04	19.01	19.07	
20	256QAM	100	0	19.06	19.20	18.99	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.84	23.93	23.83	25
15	QPSK	1	37	23.93	23.96	23.87	
15	QPSK	1	74	23.88	23.86	23.97	
15	QPSK	36	0	22.85	22.95	22.84	24
15	QPSK	36	20	22.79	22.96	22.84	
15	QPSK	36	39	22.86	22.98	22.83	
15	QPSK	75	0	22.87	23.04	22.81	24
15	16QAM	1	0	23.17	23.22	23.31	
15	16QAM	1	37	22.88	23.08	23.01	
15	16QAM	1	74	22.95	23.08	23.09	23
15	16QAM	36	0	21.95	21.84	21.90	
15	16QAM	36	20	21.74	21.78	21.97	
15	16QAM	36	39	21.83	21.90	21.92	23
15	16QAM	75	0	21.88	21.89	21.84	
15	64QAM	1	0	22.04	22.04	21.94	
15	64QAM	1	37	21.84	21.81	21.96	22
15	64QAM	1	74	22.03	22.17	22.20	
15	64QAM	36	0	20.89	20.87	20.86	
15	64QAM	36	20	20.82	20.91	20.96	20
15	64QAM	36	39	20.74	20.94	21.05	
15	64QAM	75	0	20.92	20.96	20.93	
15	256QAM	1	0	18.99	19.19	19.16	20
15	256QAM	1	37	19.09	18.85	18.96	
15	256QAM	1	74	18.89	19.06	19.09	
15	256QAM	36	0	18.83	18.96	19.02	20
15	256QAM	36	20	18.90	18.89	19.09	



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15	256QAM	36	39	19.01	18.90	18.93	Tune-up limit (dBm)
15	256QAM	75	0	19.03	19.14	18.98	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.93	24.03	23.98	25
10	QPSK	1	25	23.75	23.89	23.83	
10	QPSK	1	49	23.93	23.78	23.86	
10	QPSK	25	0	22.94	22.86	22.82	24
10	QPSK	25	12	22.89	22.93	22.94	
10	QPSK	25	25	22.81	22.86	22.90	
10	QPSK	50	0	23.02	22.96	22.98	
10	16QAM	1	0	23.08	23.17	23.25	24
10	16QAM	1	25	23.02	23.00	23.06	
10	16QAM	1	49	22.83	22.99	23.00	23
10	16QAM	25	0	21.88	21.78	21.83	
10	16QAM	25	12	21.90	21.85	21.91	
10	16QAM	25	25	21.79	21.86	21.98	
10	16QAM	50	0	21.88	21.93	21.92	23
10	64QAM	1	0	21.95	22.05	21.95	
10	64QAM	1	25	21.81	21.76	22.02	
10	64QAM	1	49	22.05	22.17	22.15	22
10	64QAM	25	0	20.85	20.91	20.99	
10	64QAM	25	12	20.96	20.83	20.82	
10	64QAM	25	25	20.83	20.84	21.04	
10	64QAM	50	0	20.81	21.02	20.97	20
10	256QAM	1	0	19.00	19.08	19.08	
10	256QAM	1	25	18.98	18.95	19.04	
10	256QAM	1	49	19.02	18.98	19.10	
10	256QAM	25	0	18.99	19.15	18.89	20
10	256QAM	25	12	18.93	19.05	19.00	
10	256QAM	25	25	19.04	18.91	19.06	
10	256QAM	50	0	18.89	19.08	18.90	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.87	23.86	23.90	25
5	QPSK	1	12	23.87	23.78	23.93	
5	QPSK	1	24	23.88	23.88	23.86	
5	QPSK	12	0	22.83	23.00	22.83	24
5	QPSK	12	7	22.82	22.85	22.87	
5	QPSK	12	13	22.88	22.85	22.85	
5	QPSK	25	0	22.93	22.87	22.81	
5	16QAM	1	0	22.99	23.18	23.22	24
5	16QAM	1	12	23.02	23.03	23.13	
5	16QAM	1	24	23.00	23.05	23.06	
5	16QAM	12	0	21.94	21.73	21.85	23
5	16QAM	12	7	21.80	21.80	21.99	
5	16QAM	12	13	21.74	21.94	21.94	
5	16QAM	25	0	21.82	21.84	21.78	
5	64QAM	1	0	21.88	21.89	21.92	23
5	64QAM	1	12	21.95	21.81	22.07	
5	64QAM	1	24	22.11	22.16	22.24	
5	64QAM	12	0	20.93	20.99	20.85	22
5	64QAM	12	7	20.80	20.83	20.98	
5	64QAM	12	13	20.90	20.97	21.06	
5	64QAM	25	0	20.95	20.90	21.06	
5	256QAM	1	0	19.11	19.07	19.06	20
5	256QAM	1	12	19.11	19.02	19.08	
5	256QAM	1	24	18.92	18.94	18.95	
5	256QAM	12	0	18.85	19.02	18.91	20
5	256QAM	12	7	18.89	18.94	18.96	
5	256QAM	12	13	18.95	18.94	18.94	
5	256QAM	25	0	18.95	19.17	18.93	Tune-up limit
Channel				19965	20175	20385	



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	24.02	23.96	24.00	25
3	QPSK	1	8	23.85	23.95	23.92	
3	QPSK	1	14	24.02	23.91	23.85	
3	QPSK	8	0	22.97	22.92	22.93	24
3	QPSK	8	4	22.93	22.98	22.94	
3	QPSK	8	7	22.93	22.96	23.02	
3	QPSK	15	0	22.92	22.96	22.92	
3	16QAM	1	0	23.13	23.27	23.15	24
3	16QAM	1	8	22.92	23.12	23.04	
3	16QAM	1	14	23.02	23.01	22.99	
3	16QAM	8	0	21.93	21.91	21.83	23
3	16QAM	8	4	21.75	21.88	21.87	
3	16QAM	8	7	21.74	21.99	22.03	
3	16QAM	15	0	21.78	21.75	21.84	
3	64QAM	1	0	21.89	21.96	22.03	23
3	64QAM	1	8	21.95	21.83	22.02	
3	64QAM	1	14	22.08	22.20	22.17	
3	64QAM	8	0	20.93	20.85	20.92	22
3	64QAM	8	4	20.92	20.82	20.94	
3	64QAM	8	7	20.76	20.97	21.03	
3	64QAM	15	0	21.01	20.89	21.03	
3	256QAM	1	0	19.11	19.04	19.08	20
3	256QAM	1	8	18.93	18.87	18.97	
3	256QAM	1	14	19.01	18.98	19.12	
3	256QAM	8	0	18.94	19.05	18.95	20
3	256QAM	8	4	18.92	18.91	19.10	
3	256QAM	8	7	18.91	18.96	18.95	
3	256QAM	15	0	18.94	19.15	18.79	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.98	23.86	23.90	25
1.4	QPSK	1	3	23.84	23.83	23.78	
1.4	QPSK	1	5	23.86	23.74	23.89	
1.4	QPSK	3	0	24.03	24.05	23.85	
1.4	QPSK	3	1	23.77	23.86	23.90	
1.4	QPSK	3	3	23.91	23.90	23.92	
1.4	QPSK	6	0	22.88	23.02	22.95	24
1.4	16QAM	1	0	22.80	22.86	22.82	24
1.4	16QAM	1	3	22.83	22.99	22.88	
1.4	16QAM	1	5	22.90	22.87	22.87	
1.4	16QAM	3	0	23.05	23.21	23.16	
1.4	16QAM	3	1	22.88	23.12	23.10	
1.4	16QAM	3	3	22.92	23.01	23.02	23
1.4	16QAM	6	0	21.82	21.80	21.91	
1.4	64QAM	1	0	21.72	21.87	21.82	23
1.4	64QAM	1	3	21.90	21.82	21.92	
1.4	64QAM	1	5	21.75	21.85	21.90	
1.4	64QAM	3	0	21.86	21.96	22.02	
1.4	64QAM	3	1	21.92	21.75	22.11	
1.4	64QAM	3	3	22.02	22.23	22.06	22
1.4	64QAM	6	0	20.96	20.91	20.95	
1.4	256QAM	1	0	18.93	19.08	19.13	20
1.4	256QAM	1	3	19.01	18.90	19.04	
1.4	256QAM	1	5	18.87	19.03	18.99	
1.4	256QAM	3	0	19.00	19.01	18.96	
1.4	256QAM	3	1	18.85	18.92	18.96	
1.4	256QAM	3	3	18.85	18.98	18.90	20
1.4	256QAM	6	0	18.91	19.00	18.79	



<LTE Band 4_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.71	23.84	23.81	
20	QPSK	1	49	23.70	23.80	23.76	24.9
20	QPSK	1	99	23.65	23.74	23.75	
20	QPSK	50	0	22.73	22.86	22.81	
20	QPSK	50	24	22.72	22.54	22.68	24
20	QPSK	50	50	22.73	22.82	22.80	
20	QPSK	100	0	22.74	22.80	22.74	
20	16QAM	1	0	23.14	23.18	22.93	24
20	16QAM	1	49	22.98	22.94	22.97	
20	16QAM	1	99	22.86	23.09	23.04	
20	16QAM	50	0	21.71	21.80	21.82	23
20	16QAM	50	24	21.61	21.80	21.71	
20	16QAM	50	50	21.60	21.79	21.80	
20	16QAM	100	0	21.64	21.78	21.73	23
20	64QAM	1	0	21.92	21.98	21.95	
20	64QAM	1	49	21.87	22.02	22.00	
20	64QAM	1	99	21.94	21.94	22.11	22
20	64QAM	50	0	20.81	20.82	20.82	
20	64QAM	50	24	20.83	20.81	20.82	
20	64QAM	50	50	20.81	20.82	20.82	20
20	64QAM	100	0	20.80	20.82	20.78	
20	256QAM	1	0	18.90	18.95	18.89	
20	256QAM	1	49	18.71	18.94	18.72	20
20	256QAM	1	99	18.90	18.77	18.69	
20	256QAM	50	0	18.90	18.76	18.74	
20	256QAM	50	24	18.77	18.75	18.85	20
20	256QAM	50	50	18.76	18.94	18.84	
20	256QAM	100	0	18.84	18.91	18.79	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.67	23.70	23.74	
15	QPSK	1	37	23.57	23.64	23.74	24.9
15	QPSK	1	74	23.60	23.67	23.59	
15	QPSK	36	0	22.62	22.80	22.72	24
15	QPSK	36	20	22.53	22.41	22.68	
15	QPSK	36	39	22.55	22.76	22.65	
15	QPSK	75	0	22.63	22.73	22.60	24
15	16QAM	1	0	23.02	23.04	22.79	
15	16QAM	1	37	22.87	22.82	22.81	
15	16QAM	1	74	22.77	23.03	22.97	23
15	16QAM	36	0	21.64	21.79	21.78	
15	16QAM	36	20	21.54	21.63	21.51	
15	16QAM	36	39	21.44	21.76	21.75	23
15	16QAM	75	0	21.56	21.68	21.70	
15	64QAM	1	0	21.74	21.94	21.91	
15	64QAM	1	37	21.72	21.83	21.96	23
15	64QAM	1	74	21.85	21.89	21.92	
15	64QAM	36	0	20.67	20.66	20.65	
15	64QAM	36	20	20.64	20.81	20.62	22
15	64QAM	36	39	20.66	20.63	20.67	
15	64QAM	75	0	20.78	20.81	20.77	
15	256QAM	1	0	18.77	18.86	18.88	20
15	256QAM	1	37	18.71	18.75	18.68	
15	256QAM	1	74	18.78	18.62	18.69	
15	256QAM	36	0	18.78	18.64	18.54	20
15	256QAM	36	20	18.61	18.56	18.67	



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15	256QAM	36	39	18.58	18.74	18.68	
15	256QAM	75	0	18.75	18.75	18.62	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.51	23.79	23.80	24.9
10	QPSK	1	25	23.66	23.80	23.61	
10	QPSK	1	49	23.50	23.55	23.71	
10	QPSK	25	0	22.65	22.79	22.81	24
10	QPSK	25	12	22.60	22.44	22.58	
10	QPSK	25	25	22.69	22.67	22.76	
10	QPSK	50	0	22.72	22.67	22.54	
10	16QAM	1	0	22.95	23.03	22.88	24
10	16QAM	1	25	22.94	22.74	22.92	
10	16QAM	1	49	22.70	23.03	22.90	
10	16QAM	25	0	21.55	21.80	21.76	23
10	16QAM	25	12	21.42	21.67	21.51	
10	16QAM	25	25	21.44	21.66	21.69	
10	16QAM	50	0	21.46	21.76	21.63	
10	64QAM	1	0	21.79	21.79	21.89	23
10	64QAM	1	25	21.71	21.94	21.96	
10	64QAM	1	49	21.94	21.74	22.10	
10	64QAM	25	0	20.69	20.62	20.71	22
10	64QAM	25	12	20.72	20.73	20.74	
10	64QAM	25	25	20.81	20.74	20.74	
10	64QAM	50	0	20.77	20.75	20.58	
10	256QAM	1	0	18.71	18.93	18.86	20
10	256QAM	1	25	18.65	18.89	18.64	
10	256QAM	1	49	18.77	18.61	18.49	
10	256QAM	25	0	18.78	18.57	18.59	20
10	256QAM	25	12	18.60	18.62	18.68	
10	256QAM	25	25	18.64	18.83	18.81	
10	256QAM	50	0	18.81	18.76	18.61	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.58	23.81	23.72	24.9
5	QPSK	1	12	23.60	23.74	23.64	
5	QPSK	1	24	23.46	23.56	23.63	
5	QPSK	12	0	22.67	22.86	22.75	24
5	QPSK	12	7	22.65	22.34	22.51	
5	QPSK	12	13	22.53	22.75	22.62	
5	QPSK	25	0	22.55	22.67	22.73	
5	16QAM	1	0	23.00	23.11	22.86	24
5	16QAM	1	12	22.86	22.91	22.84	
5	16QAM	1	24	22.67	22.94	22.91	
5	16QAM	12	0	21.55	21.69	21.69	23
5	16QAM	12	7	21.50	21.66	21.70	
5	16QAM	12	13	21.42	21.71	21.64	
5	16QAM	25	0	21.61	21.77	21.69	
5	64QAM	1	0	21.81	21.82	21.85	23
5	64QAM	1	12	21.80	21.97	21.86	
5	64QAM	1	24	21.93	21.90	21.99	
5	64QAM	12	0	20.64	20.73	20.62	22
5	64QAM	12	7	20.81	20.68	20.80	
5	64QAM	12	13	20.68	20.66	20.64	
5	64QAM	25	0	20.70	20.76	20.76	
5	256QAM	1	0	18.72	18.93	18.81	20
5	256QAM	1	12	18.63	18.86	18.72	
5	256QAM	1	24	18.71	18.70	18.60	
5	256QAM	12	0	18.70	18.70	18.63	20
5	256QAM	12	7	18.72	18.56	18.73	
5	256QAM	12	13	18.60	18.78	18.65	
5	256QAM	25	0	18.82	18.71	18.73	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.65	23.71	23.66	24.9
3	QPSK	1	8	23.68	23.76	23.67	
3	QPSK	1	14	23.50	23.67	23.57	
3	QPSK	8	0	22.53	22.75	22.64	24
3	QPSK	8	4	22.71	22.39	22.53	
3	QPSK	8	7	22.67	22.76	22.76	
3	QPSK	15	0	22.71	22.80	22.60	
3	16QAM	1	0	23.05	23.05	22.82	24
3	16QAM	1	8	22.97	22.88	22.94	
3	16QAM	1	14	22.70	23.01	22.97	
3	16QAM	8	0	21.58	21.73	21.72	23
3	16QAM	8	4	21.53	21.62	21.58	
3	16QAM	8	7	21.41	21.76	21.60	
3	16QAM	15	0	21.48	21.69	21.56	
3	64QAM	1	0	21.73	21.78	21.75	23
3	64QAM	1	8	21.70	22.02	21.95	
3	64QAM	1	14	21.76	21.89	22.02	
3	64QAM	8	0	20.76	20.70	20.81	22
3	64QAM	8	4	20.75	20.78	20.81	
3	64QAM	8	7	20.77	20.72	20.63	
3	64QAM	15	0	20.79	20.62	20.76	
3	256QAM	1	0	18.73	18.84	18.72	20
3	256QAM	1	8	18.71	18.93	18.65	
3	256QAM	1	14	18.88	18.57	18.67	
3	256QAM	8	0	18.90	18.70	18.63	20
3	256QAM	8	4	18.71	18.73	18.79	
3	256QAM	8	7	18.56	18.93	18.83	
3	256QAM	15	0	18.77	18.80	18.70	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.60	23.80	23.73	24.9
1.4	QPSK	1	3	23.64	23.61	23.59	
1.4	QPSK	1	5	23.51	23.67	23.63	
1.4	QPSK	3	0	23.63	23.79	23.71	
1.4	QPSK	3	1	23.58	23.66	23.60	
1.4	QPSK	3	3	23.53	23.68	23.65	
1.4	QPSK	6	0	22.68	22.79	22.65	24
1.4	16QAM	1	0	22.64	22.42	22.49	24
1.4	16QAM	1	3	22.71	22.77	22.70	
1.4	16QAM	1	5	22.58	22.79	22.59	
1.4	16QAM	3	0	23.00	23.05	22.73	
1.4	16QAM	3	1	22.97	22.76	22.86	
1.4	16QAM	3	3	22.71	23.07	22.95	23
1.4	16QAM	6	0	21.69	21.60	21.79	
1.4	64QAM	1	0	21.41	21.64	21.51	
1.4	64QAM	1	3	21.46	21.66	21.79	
1.4	64QAM	1	5	21.55	21.70	21.63	23
1.4	64QAM	3	0	21.87	21.85	21.81	
1.4	64QAM	3	1	21.80	21.88	21.92	
1.4	64QAM	3	3	21.89	21.80	21.95	
1.4	64QAM	6	0	20.67	20.63	20.80	22
1.4	256QAM	1	0	18.79	18.78	18.70	20
1.4	256QAM	1	3	18.52	18.79	18.63	
1.4	256QAM	1	5	18.88	18.77	18.59	
1.4	256QAM	3	0	18.78	18.65	18.66	
1.4	256QAM	3	1	18.66	18.72	18.71	
1.4	256QAM	3	3	18.65	18.78	18.68	20
1.4	256QAM	6	0	18.72	18.91	18.60	



<LTE Band 4_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.61	17.52	17.51	18.4
20	QPSK	1	49	17.57	17.47	17.50	
20	QPSK	1	99	17.50	17.49	17.42	
20	QPSK	50	0	17.35	17.19	17.17	18.4
20	QPSK	50	24	17.32	17.17	17.14	
20	QPSK	50	50	17.26	17.17	17.13	
20	QPSK	100	0	17.30	17.23	17.16	
20	16QAM	1	0	17.37	17.31	17.23	18.4
20	16QAM	1	49	17.07	16.95	16.95	
20	16QAM	1	99	17.31	17.19	17.16	
20	16QAM	50	0	17.36	17.19	17.18	18.4
20	16QAM	50	24	17.30	17.20	17.15	
20	16QAM	50	50	17.30	17.19	17.12	
20	16QAM	100	0	17.30	17.20	17.15	
20	64QAM	1	0	17.52	17.51	17.41	18.4
20	64QAM	1	49	17.60	17.45	17.43	
20	64QAM	1	99	17.38	17.29	17.34	
20	64QAM	50	0	17.40	17.26	17.24	18.4
20	64QAM	50	24	17.37	17.25	17.18	
20	64QAM	50	50	17.36	17.23	17.15	
20	64QAM	100	0	17.38	17.21	17.21	
20	256QAM	1	0	17.42	17.28	17.26	18.4
20	256QAM	1	49	17.43	17.30	17.18	
20	256QAM	1	99	17.23	17.13	17.12	
20	256QAM	50	0	17.19	17.02	17.08	18.4
20	256QAM	50	24	17.13	17.02	16.98	
20	256QAM	50	50	17.12	17.06	16.92	
20	256QAM	100	0	17.20	17.00	17.04	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.44	17.49	17.46	18.4
15	QPSK	1	37	17.38	17.50	17.57	
15	QPSK	1	74	17.36	17.54	17.55	
15	QPSK	36	0	17.17	17.19	17.25	18.4
15	QPSK	36	20	17.17	17.23	17.23	
15	QPSK	36	39	17.09	17.17	17.22	
15	QPSK	75	0	17.09	17.26	17.20	
15	16QAM	1	0	17.23	17.35	17.37	18.4
15	16QAM	1	37	16.95	16.97	17.05	
15	16QAM	1	74	17.14	17.16	17.26	
15	16QAM	36	0	17.24	17.23	17.32	18.4
15	16QAM	36	20	17.08	17.22	17.29	
15	16QAM	36	39	17.17	17.20	17.22	
15	16QAM	75	0	17.14	17.17	17.28	
15	64QAM	1	0	17.47	17.55	17.51	18.4
15	64QAM	1	37	17.48	17.44	17.53	
15	64QAM	1	74	17.23	17.33	17.43	
15	64QAM	36	0	17.24	17.23	17.30	18.4
15	64QAM	36	20	17.23	17.30	17.27	
15	64QAM	36	39	17.22	17.27	17.20	
15	64QAM	75	0	17.26	17.27	17.34	
15	256QAM	1	0	17.45	17.47	17.50	18.4
15	256QAM	1	37	17.35	17.46	17.50	
15	256QAM	1	74	17.12	17.29	17.33	
15	256QAM	36	0	17.14	17.22	17.25	18.4
15	256QAM	36	20	17.10	17.24	17.24	



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15	256QAM	36	39	17.14	17.17	17.21	Tune-up limit (dBm)
15	256QAM	75	0	17.21	17.17	17.21	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.50	17.51	17.48	18.4
10	QPSK	1	25	17.50	17.50	17.50	
10	QPSK	1	49	17.44	17.55	17.49	
10	QPSK	25	0	17.25	17.26	17.17	18.4
10	QPSK	25	12	17.19	17.24	17.20	
10	QPSK	25	25	17.18	17.16	17.17	
10	QPSK	50	0	17.21	17.22	17.16	
10	16QAM	1	0	17.27	17.29	17.22	18.4
10	16QAM	1	25	16.96	17.02	16.96	
10	16QAM	1	49	17.20	17.17	17.15	
10	16QAM	25	0	17.30	17.20	17.20	18.4
10	16QAM	25	12	17.20	17.23	17.23	
10	16QAM	25	25	17.26	17.20	17.19	
10	16QAM	50	0	17.24	17.25	17.13	
10	64QAM	1	0	17.55	17.52	17.44	18.4
10	64QAM	1	25	17.51	17.50	17.42	
10	64QAM	1	49	17.28	17.30	17.34	
10	64QAM	25	0	17.29	17.33	17.24	18.4
10	64QAM	25	12	17.26	17.24	17.18	
10	64QAM	25	25	17.29	17.27	17.21	
10	64QAM	50	0	17.31	17.26	17.20	
10	256QAM	1	0	17.49	17.52	17.39	18.4
10	256QAM	1	25	17.45	17.44	17.42	
10	256QAM	1	49	17.25	17.24	17.33	
10	256QAM	25	0	17.31	17.21	17.17	18.4
10	256QAM	25	12	17.28	17.28	17.17	
10	256QAM	25	25	17.22	17.16	17.10	
10	256QAM	50	0	17.19	17.24	17.15	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.48	17.49	17.46	18.4
5	QPSK	1	12	17.46	17.43	17.50	
5	QPSK	1	24	17.39	17.52	17.47	
5	QPSK	12	0	17.22	17.23	17.21	18.4
5	QPSK	12	7	17.24	17.19	17.18	
5	QPSK	12	13	17.19	17.22	17.26	
5	QPSK	25	0	17.19	17.19	17.27	
5	16QAM	1	0	17.23	17.28	17.27	18.4
5	16QAM	1	12	17.02	16.95	17.05	
5	16QAM	1	24	17.26	17.16	17.28	
5	16QAM	12	0	17.29	17.21	17.30	18.4
5	16QAM	12	7	17.24	17.25	17.21	
5	16QAM	12	13	17.25	17.20	17.24	
5	16QAM	25	0	17.24	17.23	17.22	
5	64QAM	1	0	17.57	17.56	17.51	18.4
5	64QAM	1	12	17.48	17.41	17.56	
5	64QAM	1	24	17.25	17.28	17.44	
5	64QAM	12	0	17.28	17.31	17.32	18.4
5	64QAM	12	7	17.32	17.31	17.31	
5	64QAM	12	13	17.21	17.23	17.29	
5	64QAM	25	0	17.23	17.25	17.34	
5	256QAM	1	0	17.47	17.44	17.50	18.4
5	256QAM	1	12	17.44	17.40	17.43	
5	256QAM	1	24	17.27	17.28	17.41	
5	256QAM	12	0	17.30	17.19	17.26	18.4
5	256QAM	12	7	17.18	17.18	17.26	
5	256QAM	12	13	17.17	17.19	17.15	
5	256QAM	25	0	17.18	17.13	17.26	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	17.38	17.46	17.41	18.4
3	QPSK	1	8	17.41	17.38	17.56	
3	QPSK	1	14	17.29	17.41	17.42	
3	QPSK	8	0	17.14	17.18	17.27	18.4
3	QPSK	8	4	17.09	17.11	17.16	
3	QPSK	8	7	17.07	17.15	17.18	
3	QPSK	15	0	17.06	17.22	17.25	18.4
3	16QAM	1	0	17.15	17.29	17.23	
3	16QAM	1	8	16.82	16.95	16.99	
3	16QAM	1	14	17.10	17.10	17.19	18.4
3	16QAM	8	0	17.17	17.09	17.18	
3	16QAM	8	4	17.15	17.10	17.15	
3	16QAM	8	7	17.06	17.18	17.13	18.4
3	16QAM	15	0	17.07	17.10	17.20	
3	64QAM	1	0	17.40	17.48	17.42	
3	64QAM	1	8	17.45	17.42	17.51	18.4
3	64QAM	1	14	17.19	17.23	17.34	
3	64QAM	8	0	17.22	17.16	17.28	
3	64QAM	8	4	17.18	17.21	17.20	18.4
3	64QAM	8	7	17.20	17.13	17.23	
3	64QAM	15	0	17.22	17.15	17.22	
3	256QAM	1	0	17.44	17.43	17.46	18.4
3	256QAM	1	8	17.36	17.38	17.46	
3	256QAM	1	14	17.08	17.14	17.30	
3	256QAM	8	0	17.13	17.20	17.24	18.4
3	256QAM	8	4	17.09	17.10	17.14	
3	256QAM	8	7	17.14	17.13	17.13	
3	256QAM	15	0	17.10	17.07	17.22	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	18.4
1.4	QPSK	1	0	17.38	17.45	17.42	
1.4	QPSK	1	3	17.36	17.35	17.50	
1.4	QPSK	1	5	17.33	17.40	17.43	
1.4	QPSK	3	0	17.15	17.07	17.17	
1.4	QPSK	3	1	17.19	17.03	17.14	
1.4	QPSK	3	3	17.05	17.09	17.15	
1.4	QPSK	6	0	17.13	17.11	17.24	18.4
1.4	16QAM	1	0	17.20	17.22	17.23	18.4
1.4	16QAM	1	3	16.93	16.78	16.98	
1.4	16QAM	1	5	17.12	17.04	17.22	
1.4	16QAM	3	0	17.21	17.04	17.22	
1.4	16QAM	3	1	17.18	17.07	17.15	
1.4	16QAM	3	3	17.13	17.04	17.19	18.4
1.4	16QAM	6	0	17.13	17.08	17.15	
1.4	64QAM	1	0	17.49	17.42	17.46	18.4
1.4	64QAM	1	3	17.47	17.38	17.47	
1.4	64QAM	1	5	17.26	17.17	17.42	
1.4	64QAM	3	0	17.19	17.12	17.27	
1.4	64QAM	3	1	17.23	17.17	17.22	
1.4	64QAM	3	3	17.21	17.13	17.15	18.4
1.4	64QAM	6	0	17.18	17.12	17.28	
1.4	256QAM	1	0	17.45	17.31	17.35	18.4
1.4	256QAM	1	3	17.36	17.25	17.42	
1.4	256QAM	1	5	17.12	17.15	17.34	
1.4	256QAM	3	0	17.14	17.09	17.18	
1.4	256QAM	3	1	17.18	17.09	17.14	
1.4	256QAM	3	3	17.18	17.02	17.13	18.4
1.4	256QAM	6	0	17.13	17.06	17.23	



<LTE Band 4_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.97	23.93	23.90	25
20	QPSK	1	49	23.68	23.67	23.66	
20	QPSK	1	99	23.83	23.85	23.83	
20	QPSK	50	0	23.01	22.96	22.84	24
20	QPSK	50	24	22.97	22.88	22.84	
20	QPSK	50	50	22.88	22.86	22.78	
20	QPSK	100	0	22.92	22.91	22.82	
20	16QAM	1	0	23.18	23.11	23.11	24
20	16QAM	1	49	23.07	23.01	22.99	
20	16QAM	1	99	23.09	23.07	23.04	
20	16QAM	50	0	21.84	21.78	21.78	23
20	16QAM	50	24	21.79	21.87	21.76	
20	16QAM	50	50	21.85	21.86	21.79	
20	16QAM	100	0	21.85	21.85	21.79	
20	64QAM	1	0	22.12	22.08	22.02	23
20	64QAM	1	49	22.08	21.96	21.90	
20	64QAM	1	99	21.99	21.98	21.97	
20	64QAM	50	0	20.99	20.97	20.86	22
20	64QAM	50	24	20.97	20.92	20.86	
20	64QAM	50	50	20.89	20.90	20.85	
20	64QAM	100	0	20.90	20.90	20.85	
20	256QAM	1	0	19.11	19.10	19.06	20
20	256QAM	1	49	18.76	18.82	18.78	
20	256QAM	1	99	18.94	18.95	18.91	
20	256QAM	50	0	18.83	18.88	18.74	20
20	256QAM	50	24	18.97	18.99	18.88	
20	256QAM	50	50	18.87	18.93	18.88	
20	256QAM	100	0	18.87	18.89	18.75	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.90	23.83	23.72	25
15	QPSK	1	37	23.62	23.58	23.58	
15	QPSK	1	74	23.64	23.70	23.67	
15	QPSK	36	0	22.95	22.90	22.64	24
15	QPSK	36	20	22.92	22.76	22.67	
15	QPSK	36	39	22.69	22.79	22.75	
15	QPSK	75	0	22.83	22.73	22.66	
15	16QAM	1	0	23.16	23.05	23.05	24
15	16QAM	1	37	23.02	22.91	22.99	
15	16QAM	1	74	23.07	22.93	22.91	
15	16QAM	36	0	21.64	21.68	21.78	23
15	16QAM	36	20	21.69	21.72	21.66	
15	16QAM	36	39	21.76	21.75	21.71	
15	16QAM	75	0	21.72	21.84	21.61	
15	64QAM	1	0	21.96	21.96	21.89	23
15	64QAM	1	37	21.88	21.86	21.89	
15	64QAM	1	74	21.87	21.92	21.82	
15	64QAM	36	0	20.90	20.93	20.67	22
15	64QAM	36	20	20.78	20.77	20.84	
15	64QAM	36	39	20.81	20.84	20.67	
15	64QAM	75	0	20.81	20.88	20.66	
15	256QAM	1	0	19.06	19.04	18.91	20
15	256QAM	1	37	18.56	18.64	18.59	
15	256QAM	1	74	18.89	18.82	18.74	
15	256QAM	36	0	18.80	18.83	18.59	20
15	256QAM	36	20	18.91	18.82	18.69	



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15	256QAM	36	39	18.76	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.69	18.85	18.57	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.89	23.92	23.83	25
10	QPSK	1	25	23.63	23.48	23.54	
10	QPSK	1	49	23.70	23.76	23.66	
10	QPSK	25	0	22.91	22.96	22.83	24
10	QPSK	25	12	22.86	22.81	22.75	
10	QPSK	25	25	22.70	22.83	22.70	
10	QPSK	50	0	22.91	22.88	22.72	
10	16QAM	1	0	23.13	22.91	23.02	24
10	16QAM	1	25	22.90	22.87	22.88	
10	16QAM	1	49	23.03	22.98	22.93	
10	16QAM	25	0	21.65	21.70	21.60	23
10	16QAM	25	12	21.79	21.86	21.62	
10	16QAM	25	25	21.73	21.66	21.66	
10	16QAM	50	0	21.71	21.67	21.76	
10	64QAM	1	0	22.11	21.92	21.90	23
10	64QAM	1	25	22.07	21.93	21.90	
10	64QAM	1	49	21.96	21.94	21.94	
10	64QAM	25	0	20.82	20.78	20.84	22
10	64QAM	25	12	20.77	20.90	20.77	
10	64QAM	25	25	20.75	20.75	20.82	
10	64QAM	50	0	20.88	20.70	20.69	
10	256QAM	1	0	19.04	19.01	19.02	20
10	256QAM	1	25	18.67	18.71	18.59	
10	256QAM	1	49	18.87	18.82	18.74	
10	256QAM	25	0	18.78	18.73	18.67	20
10	256QAM	25	12	18.88	18.88	18.69	
10	256QAM	25	25	18.82	18.92	18.69	
10	256QAM	50	0	18.77	18.89	18.70	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.96	23.86	23.76	25
5	QPSK	1	12	23.61	23.57	23.62	
5	QPSK	1	24	23.67	23.84	23.68	
5	QPSK	12	0	22.91	22.90	22.72	24
5	QPSK	12	7	22.89	22.71	22.76	
5	QPSK	12	13	22.82	22.76	22.62	
5	QPSK	25	0	22.82	22.78	22.65	
5	16QAM	1	0	23.07	22.96	23.07	24
5	16QAM	1	12	22.97	23.00	22.93	
5	16QAM	1	24	22.91	23.04	22.94	
5	16QAM	12	0	21.77	21.61	21.72	23
5	16QAM	12	7	21.79	21.67	21.75	
5	16QAM	12	13	21.65	21.76	21.65	
5	16QAM	25	0	21.80	21.68	21.65	
5	64QAM	1	0	21.96	21.92	21.94	23
5	64QAM	1	12	22.02	21.78	21.85	
5	64QAM	1	24	21.96	21.95	21.87	
5	64QAM	12	0	20.85	20.79	20.70	22
5	64QAM	12	7	20.92	20.91	20.83	
5	64QAM	12	13	20.84	20.86	20.78	
5	64QAM	25	0	20.81	20.76	20.69	
5	256QAM	1	0	19.06	19.00	18.97	20
5	256QAM	1	12	18.73	18.70	18.74	
5	256QAM	1	24	18.78	18.92	18.84	
5	256QAM	12	0	18.74	18.70	18.54	20
5	256QAM	12	7	18.90	18.85	18.82	
5	256QAM	12	13	18.75	18.86	18.72	
5	256QAM	25	0	18.82	18.74	18.70	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.90	23.78	23.87	25
3	QPSK	1	8	23.53	23.51	23.53	
3	QPSK	1	14	23.72	23.79	23.76	
3	QPSK	8	0	22.91	22.80	22.83	24
3	QPSK	8	4	22.90	22.69	22.77	
3	QPSK	8	7	22.74	22.82	22.73	
3	QPSK	15	0	22.78	22.82	22.69	
3	16QAM	1	0	23.06	23.09	22.96	24
3	16QAM	1	8	22.88	23.00	22.93	
3	16QAM	1	14	22.97	22.96	22.99	
3	16QAM	8	0	21.67	21.77	21.66	23
3	16QAM	8	4	21.70	21.77	21.59	
3	16QAM	8	7	21.83	21.82	21.78	
3	16QAM	15	0	21.75	21.72	21.65	
3	64QAM	1	0	22.04	22.05	21.85	23
3	64QAM	1	8	22.05	21.77	21.76	
3	64QAM	1	14	21.82	21.80	21.89	
3	64QAM	8	0	20.97	20.88	20.79	22
3	64QAM	8	4	20.79	20.87	20.81	
3	64QAM	8	7	20.75	20.74	20.85	
3	64QAM	15	0	20.71	20.76	20.70	
3	256QAM	1	0	19.05	18.90	18.98	20
3	256QAM	1	8	18.66	18.66	18.66	
3	256QAM	1	14	18.93	18.83	18.86	
3	256QAM	8	0	18.81	18.83	18.69	20
3	256QAM	8	4	18.93	18.91	18.84	
3	256QAM	8	7	18.81	18.85	18.76	
3	256QAM	15	0	18.78	18.75	18.60	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.79	23.87	23.84	25
1.4	QPSK	1	3	23.52	23.63	23.58	
1.4	QPSK	1	5	23.81	23.81	23.77	
1.4	QPSK	3	0	23.87	23.92	23.77	
1.4	QPSK	3	1	23.67	23.55	23.61	
1.4	QPSK	3	3	23.79	23.76	23.63	
1.4	QPSK	6	0	22.97	22.85	22.72	24
1.4	16QAM	1	0	22.96	22.75	22.64	24
1.4	16QAM	1	3	22.81	22.77	22.75	
1.4	16QAM	1	5	22.84	22.78	22.82	
1.4	16QAM	3	0	23.00	22.97	22.94	
1.4	16QAM	3	1	22.90	22.95	22.87	
1.4	16QAM	3	3	23.07	22.92	22.94	23
1.4	16QAM	6	0	21.66	21.65	21.72	
1.4	64QAM	1	0	21.60	21.81	21.71	
1.4	64QAM	1	3	21.67	21.66	21.66	
1.4	64QAM	1	5	21.78	21.81	21.60	23
1.4	64QAM	3	0	22.00	21.88	21.86	
1.4	64QAM	3	1	21.95	21.77	21.73	
1.4	64QAM	3	3	21.95	21.87	21.79	
1.4	64QAM	6	0	20.86	20.82	20.74	22
1.4	256QAM	1	0	18.94	18.96	18.98	20
1.4	256QAM	1	3	18.64	18.68	18.76	
1.4	256QAM	1	5	18.92	18.88	18.83	
1.4	256QAM	3	0	18.71	18.84	18.72	
1.4	256QAM	3	1	18.85	18.80	18.74	
1.4	256QAM	3	3	18.82	18.76	18.87	20
1.4	256QAM	6	0	18.77	18.87	18.58	



<LTE Band 4_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.12	20.17	19.98	
20	QPSK	1	49	19.74	20.08	19.95	20.8
20	QPSK	1	99	19.48	19.95	19.91	
20	QPSK	50	0	20.01	19.94	19.72	
20	QPSK	50	24	19.90	19.86	19.70	20.8
20	QPSK	50	50	19.85	19.79	19.65	
20	QPSK	100	0	19.92	19.89	19.69	
20	16QAM	1	0	20.13	20.04	19.89	20.8
20	16QAM	1	49	20.17	19.92	19.71	
20	16QAM	1	99	20.03	20.01	19.99	
20	16QAM	50	0	20.04	19.87	19.65	20.8
20	16QAM	50	24	19.86	19.81	19.64	
20	16QAM	50	50	19.76	19.74	19.69	
20	16QAM	100	0	19.83	19.72	19.60	20.8
20	64QAM	1	0	20.02	20.00	19.83	
20	64QAM	1	49	19.72	19.78	19.69	
20	64QAM	1	99	19.81	19.29	19.70	20.8
20	64QAM	50	0	19.53	19.41	19.31	
20	64QAM	50	24	19.48	19.40	19.29	
20	64QAM	50	50	19.42	19.44	19.24	20.8
20	64QAM	100	0	19.50	19.49	19.22	
20	256QAM	1	0	18.94	19.13	18.98	20
20	256QAM	1	49	19.10	19.14	18.96	
20	256QAM	1	99	18.93	19.10	18.94	
20	256QAM	50	0	18.80	18.92	18.79	20
20	256QAM	50	24	18.87	19.01	18.79	
20	256QAM	50	50	18.79	18.99	18.72	
20	256QAM	100	0	18.82	18.87	18.82	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.99	20.09	19.88	
15	QPSK	1	37	19.70	19.96	19.94	20.8
15	QPSK	1	74	19.43	19.89	19.81	
15	QPSK	36	0	19.90	19.75	19.66	20.8
15	QPSK	36	20	19.73	19.75	19.64	
15	QPSK	36	39	19.82	19.75	19.56	
15	QPSK	75	0	19.84	19.89	19.55	20.8
15	16QAM	1	0	19.99	19.98	19.85	
15	16QAM	1	37	20.09	19.79	19.54	
15	16QAM	1	74	19.91	19.99	19.81	20.8
15	16QAM	36	0	20.03	19.86	19.48	
15	16QAM	36	20	19.68	19.78	19.63	
15	16QAM	36	39	19.61	19.67	19.64	20.8
15	16QAM	75	0	19.68	19.67	19.56	
15	64QAM	1	0	19.90	19.89	19.67	
15	64QAM	1	37	19.58	19.68	19.59	20.8
15	64QAM	1	74	19.64	19.09	19.61	
15	64QAM	36	0	19.35	19.22	19.24	
15	64QAM	36	20	19.48	19.25	19.13	20.8
15	64QAM	36	39	19.42	19.34	19.07	
15	64QAM	75	0	19.32	19.43	19.20	
15	256QAM	1	0	18.90	19.04	18.83	20
15	256QAM	1	37	19.00	19.14	18.86	
15	256QAM	1	74	18.89	19.05	18.83	
15	256QAM	36	0	18.71	18.76	18.79	20
15	256QAM	36	20	18.76	18.89	18.65	



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15	256QAM	36	39	18.66	18.98	18.70	Tune-up limit (dBm)
15	256QAM	75	0	18.73	18.72	18.70	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.05	20.10	19.79	20.8
10	QPSK	1	25	19.59	20.00	19.91	
10	QPSK	1	49	19.45	19.84	19.76	
10	QPSK	25	0	19.88	19.82	19.71	20.8
10	QPSK	25	12	19.84	19.85	19.68	
10	QPSK	25	25	19.65	19.79	19.47	
10	QPSK	50	0	19.85	19.89	19.50	
10	16QAM	1	0	19.94	20.04	19.70	20.8
10	16QAM	1	25	20.07	19.86	19.69	
10	16QAM	1	49	19.86	19.94	19.86	
10	16QAM	25	0	19.92	19.85	19.60	20.8
10	16QAM	25	12	19.67	19.80	19.48	
10	16QAM	25	25	19.64	19.58	19.55	
10	16QAM	50	0	19.79	19.52	19.49	
10	64QAM	1	0	19.86	19.87	19.79	20.8
10	64QAM	1	25	19.59	19.71	19.50	
10	64QAM	1	49	19.78	19.27	19.68	
10	64QAM	25	0	19.53	19.24	19.27	20.8
10	64QAM	25	12	19.45	19.20	19.24	
10	64QAM	25	25	19.23	19.41	19.06	
10	64QAM	50	0	19.41	19.47	19.14	
10	256QAM	1	0	18.74	19.02	18.82	20
10	256QAM	1	25	18.96	18.99	18.87	
10	256QAM	1	49	18.88	19.09	18.76	
10	256QAM	25	0	18.67	18.85	18.66	20
10	256QAM	25	12	18.73	18.90	18.77	
10	256QAM	25	25	18.70	18.83	18.62	
10	256QAM	50	0	18.65	18.81	18.78	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.11	20.08	19.96	20.8
5	QPSK	1	12	19.69	20.04	19.91	
5	QPSK	1	24	19.43	19.96	19.89	
5	QPSK	12	0	19.97	19.98	19.77	20.8
5	QPSK	12	7	19.98	19.94	19.74	
5	QPSK	12	13	19.82	19.76	19.71	
5	QPSK	25	0	19.96	19.81	19.73	
5	16QAM	1	0	20.12	20.09	19.92	20.8
5	16QAM	1	12	20.15	19.88	19.70	
5	16QAM	1	24	20.10	19.94	19.99	
5	16QAM	12	0	20.07	19.82	19.64	20.8
5	16QAM	12	7	19.87	19.84	19.66	
5	16QAM	12	13	19.80	19.73	19.69	
5	16QAM	25	0	19.85	19.79	19.65	
5	64QAM	1	0	20.05	19.98	19.78	20.8
5	64QAM	1	12	19.74	19.86	19.64	
5	64QAM	1	24	19.78	19.31	19.62	
5	64QAM	12	0	19.48	19.40	19.28	20.8
5	64QAM	12	7	19.48	19.34	19.28	
5	64QAM	12	13	19.44	19.43	19.20	
5	64QAM	25	0	19.49	19.48	19.21	
5	256QAM	1	0	18.98	19.17	19.02	20
5	256QAM	1	12	19.11	19.21	18.98	
5	256QAM	1	24	18.97	19.15	18.87	
5	256QAM	12	0	18.80	18.94	18.77	20
5	256QAM	12	7	18.78	18.93	18.75	
5	256QAM	12	13	18.81	18.94	18.78	
5	256QAM	25	0	18.80	18.87	18.77	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	20.06	20.10	19.99	20.8
3	QPSK	1	8	19.76	20.09	19.96	
3	QPSK	1	14	19.41	19.87	19.91	
3	QPSK	8	0	19.95	19.98	19.71	20.8
3	QPSK	8	4	19.98	19.94	19.65	
3	QPSK	8	7	19.84	19.76	19.72	
3	QPSK	15	0	19.89	19.80	19.73	
3	16QAM	1	0	20.13	20.07	19.93	20.8
3	16QAM	1	8	20.16	19.93	19.73	
3	16QAM	1	14	20.10	19.98	19.97	
3	16QAM	8	0	20.05	19.86	19.67	20.8
3	16QAM	8	4	19.87	19.80	19.67	
3	16QAM	8	7	19.83	19.73	19.72	
3	16QAM	15	0	19.76	19.76	19.65	
3	64QAM	1	0	20.06	19.93	19.82	20.8
3	64QAM	1	8	19.80	19.81	19.71	
3	64QAM	1	14	19.84	19.27	19.70	
3	64QAM	8	0	19.53	19.48	19.30	20.8
3	64QAM	8	4	19.46	19.39	19.31	
3	64QAM	8	7	19.49	19.34	19.26	
3	64QAM	15	0	19.45	19.40	19.24	
3	256QAM	1	0	19.02	19.16	19.05	20
3	256QAM	1	8	19.12	19.18	19.00	
3	256QAM	1	14	18.99	19.12	18.90	
3	256QAM	8	0	18.80	18.91	18.77	20
3	256QAM	8	4	18.82	18.92	18.79	
3	256QAM	8	7	18.78	18.93	18.76	
3	256QAM	15	0	18.77	18.87	18.84	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.10	20.13	19.91	20.8
1.4	QPSK	1	3	19.74	20.02	19.94	
1.4	QPSK	1	5	19.47	19.87	19.93	
1.4	QPSK	3	0	19.98	19.94	19.72	
1.4	QPSK	3	1	19.96	19.92	19.74	
1.4	QPSK	3	3	19.86	19.79	19.69	
1.4	QPSK	6	0	19.92	19.80	19.70	
1.4	16QAM	1	0	20.07	20.06	19.96	20.8
1.4	16QAM	1	3	20.10	19.97	19.76	
1.4	16QAM	1	5	20.08	20.02	19.95	
1.4	16QAM	3	0	20.10	19.85	19.64	
1.4	16QAM	3	1	19.81	19.74	19.68	
1.4	16QAM	3	3	19.81	19.76	19.69	
1.4	16QAM	6	0	19.81	19.78	19.62	20.8
1.4	64QAM	1	0	20.03	19.93	19.80	20.8
1.4	64QAM	1	3	19.77	19.81	19.61	
1.4	64QAM	1	5	19.82	19.29	19.64	
1.4	64QAM	3	0	19.50	19.42	19.24	
1.4	64QAM	3	1	19.40	19.38	19.29	
1.4	64QAM	3	3	19.47	19.35	19.23	
1.4	64QAM	6	0	19.52	19.49	19.28	20.8
1.4	256QAM	1	0	18.98	19.17	19.01	20
1.4	256QAM	1	3	19.08	19.20	18.99	
1.4	256QAM	1	5	18.99	19.09	18.87	
1.4	256QAM	3	0	18.79	18.94	18.75	
1.4	256QAM	3	1	18.77	18.94	18.82	
1.4	256QAM	3	3	18.84	18.99	18.81	
1.4	256QAM	6	0	18.78	18.92	18.80	20



<LTE Band 4_Ant 5_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.71	23.84	23.81	
20	QPSK	1	49	23.70	23.80	23.76	25
20	QPSK	1	99	23.65	23.74	23.75	
20	QPSK	50	0	22.73	22.86	22.81	
20	QPSK	50	24	22.72	22.54	22.68	24
20	QPSK	50	50	22.73	22.82	22.80	
20	QPSK	100	0	22.74	22.80	22.74	
20	16QAM	1	0	23.14	23.18	22.93	24
20	16QAM	1	49	22.98	22.94	22.97	
20	16QAM	1	99	22.86	23.09	23.04	
20	16QAM	50	0	21.71	21.80	21.82	23
20	16QAM	50	24	21.61	21.80	21.71	
20	16QAM	50	50	21.60	21.79	21.80	
20	16QAM	100	0	21.64	21.78	21.73	23
20	64QAM	1	0	21.92	21.98	21.95	
20	64QAM	1	49	21.87	22.02	22.00	
20	64QAM	1	99	21.94	21.94	22.11	22
20	64QAM	50	0	20.81	20.82	20.82	
20	64QAM	50	24	20.83	20.81	20.82	
20	64QAM	50	50	20.81	20.82	20.82	20
20	64QAM	100	0	20.80	20.82	20.78	
20	256QAM	1	0	18.90	18.95	18.89	
20	256QAM	1	49	18.71	18.94	18.72	20
20	256QAM	1	99	18.90	18.77	18.69	
20	256QAM	50	0	18.90	18.76	18.74	
20	256QAM	50	24	18.77	18.75	18.85	20
20	256QAM	50	50	18.76	18.94	18.84	
20	256QAM	100	0	18.84	18.91	18.79	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.67	23.70	23.74	
15	QPSK	1	37	23.57	23.64	23.74	25
15	QPSK	1	74	23.60	23.67	23.59	
15	QPSK	36	0	22.62	22.80	22.72	24
15	QPSK	36	20	22.53	22.41	22.68	
15	QPSK	36	39	22.55	22.76	22.65	
15	QPSK	75	0	22.63	22.73	22.60	24
15	16QAM	1	0	23.02	23.04	22.79	
15	16QAM	1	37	22.87	22.82	22.81	
15	16QAM	1	74	22.77	23.03	22.97	23
15	16QAM	36	0	21.64	21.79	21.78	
15	16QAM	36	20	21.54	21.63	21.51	
15	16QAM	36	39	21.44	21.76	21.75	23
15	16QAM	75	0	21.56	21.68	21.70	
15	64QAM	1	0	21.74	21.94	21.91	
15	64QAM	1	37	21.72	21.83	21.96	23
15	64QAM	1	74	21.85	21.89	21.92	
15	64QAM	36	0	20.67	20.66	20.65	
15	64QAM	36	20	20.64	20.81	20.62	22
15	64QAM	36	39	20.66	20.63	20.67	
15	64QAM	75	0	20.78	20.81	20.77	
15	256QAM	1	0	18.77	18.86	18.88	20
15	256QAM	1	37	18.71	18.75	18.68	
15	256QAM	1	74	18.78	18.62	18.69	
15	256QAM	36	0	18.78	18.64	18.54	20
15	256QAM	36	20	18.61	18.56	18.67	



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15	256QAM	36	39	18.58	18.74	18.68	Tune-up limit (dBm)
15	256QAM	75	0	18.75	18.75	18.62	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.51	23.79	23.80	25
10	QPSK	1	25	23.66	23.80	23.61	
10	QPSK	1	49	23.50	23.55	23.71	
10	QPSK	25	0	22.65	22.79	22.81	24
10	QPSK	25	12	22.60	22.44	22.58	
10	QPSK	25	25	22.69	22.67	22.76	
10	QPSK	50	0	22.72	22.67	22.54	
10	16QAM	1	0	22.95	23.03	22.88	24
10	16QAM	1	25	22.94	22.74	22.92	
10	16QAM	1	49	22.70	23.03	22.90	23
10	16QAM	25	0	21.55	21.80	21.76	
10	16QAM	25	12	21.42	21.67	21.51	
10	16QAM	25	25	21.44	21.66	21.69	
10	16QAM	50	0	21.46	21.76	21.63	23
10	64QAM	1	0	21.79	21.79	21.89	
10	64QAM	1	25	21.71	21.94	21.96	
10	64QAM	1	49	21.94	21.74	22.10	22
10	64QAM	25	0	20.69	20.62	20.71	
10	64QAM	25	12	20.72	20.73	20.74	
10	64QAM	25	25	20.81	20.74	20.74	
10	64QAM	50	0	20.77	20.75	20.58	20
10	256QAM	1	0	18.71	18.93	18.86	
10	256QAM	1	25	18.65	18.89	18.64	
10	256QAM	1	49	18.77	18.61	18.49	
10	256QAM	25	0	18.78	18.57	18.59	20
10	256QAM	25	12	18.60	18.62	18.68	
10	256QAM	25	25	18.64	18.83	18.81	
10	256QAM	50	0	18.81	18.76	18.61	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.58	23.81	23.72	25
5	QPSK	1	12	23.60	23.74	23.64	
5	QPSK	1	24	23.46	23.56	23.63	
5	QPSK	12	0	22.67	22.86	22.75	24
5	QPSK	12	7	22.65	22.34	22.51	
5	QPSK	12	13	22.53	22.75	22.62	
5	QPSK	25	0	22.55	22.67	22.73	
5	16QAM	1	0	23.00	23.11	22.86	24
5	16QAM	1	12	22.86	22.91	22.84	
5	16QAM	1	24	22.67	22.94	22.91	
5	16QAM	12	0	21.55	21.69	21.69	
5	16QAM	12	7	21.50	21.66	21.70	23
5	16QAM	12	13	21.42	21.71	21.64	
5	16QAM	25	0	21.61	21.77	21.69	
5	64QAM	1	0	21.81	21.82	21.85	
5	64QAM	1	12	21.80	21.97	21.86	23
5	64QAM	1	24	21.93	21.90	21.99	
5	64QAM	12	0	20.64	20.73	20.62	
5	64QAM	12	7	20.81	20.68	20.80	22
5	64QAM	12	13	20.68	20.66	20.64	
5	64QAM	25	0	20.70	20.76	20.76	
5	256QAM	1	0	18.72	18.93	18.81	
5	256QAM	1	12	18.63	18.86	18.72	20
5	256QAM	1	24	18.71	18.70	18.60	
5	256QAM	12	0	18.70	18.70	18.63	
5	256QAM	12	7	18.72	18.56	18.73	20
5	256QAM	12	13	18.60	18.78	18.65	
5	256QAM	25	0	18.82	18.71	18.73	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.65	23.71	23.66	25
3	QPSK	1	8	23.68	23.76	23.67	
3	QPSK	1	14	23.50	23.67	23.57	
3	QPSK	8	0	22.53	22.75	22.64	24
3	QPSK	8	4	22.71	22.39	22.53	
3	QPSK	8	7	22.67	22.76	22.76	
3	QPSK	15	0	22.71	22.80	22.60	24
3	16QAM	1	0	23.05	23.05	22.82	
3	16QAM	1	8	22.97	22.88	22.94	
3	16QAM	1	14	22.70	23.01	22.97	23
3	16QAM	8	0	21.58	21.73	21.72	
3	16QAM	8	4	21.53	21.62	21.58	
3	16QAM	8	7	21.41	21.76	21.60	23
3	16QAM	15	0	21.48	21.69	21.56	
3	64QAM	1	0	21.73	21.78	21.75	
3	64QAM	1	8	21.70	22.02	21.95	22
3	64QAM	1	14	21.76	21.89	22.02	
3	64QAM	8	0	20.76	20.70	20.81	
3	64QAM	8	4	20.75	20.78	20.81	20
3	64QAM	8	7	20.77	20.72	20.63	
3	64QAM	15	0	20.79	20.62	20.76	
3	256QAM	1	0	18.73	18.84	18.72	20
3	256QAM	1	8	18.71	18.93	18.65	
3	256QAM	1	14	18.88	18.57	18.67	
3	256QAM	8	0	18.90	18.70	18.63	20
3	256QAM	8	4	18.71	18.73	18.79	
3	256QAM	8	7	18.56	18.93	18.83	
3	256QAM	15	0	18.77	18.80	18.70	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	23.60	23.80	23.73	
1.4	QPSK	1	3	23.64	23.61	23.59	
1.4	QPSK	1	5	23.51	23.67	23.63	
1.4	QPSK	3	0	23.63	23.79	23.71	
1.4	QPSK	3	1	23.58	23.66	23.60	
1.4	QPSK	3	3	23.53	23.68	23.65	24
1.4	QPSK	6	0	22.68	22.79	22.65	
1.4	16QAM	1	0	22.64	22.42	22.49	24
1.4	16QAM	1	3	22.71	22.77	22.70	
1.4	16QAM	1	5	22.58	22.79	22.59	
1.4	16QAM	3	0	23.00	23.05	22.73	
1.4	16QAM	3	1	22.97	22.76	22.86	
1.4	16QAM	3	3	22.71	23.07	22.95	23
1.4	16QAM	6	0	21.69	21.60	21.79	
1.4	64QAM	1	0	21.41	21.64	21.51	23
1.4	64QAM	1	3	21.46	21.66	21.79	
1.4	64QAM	1	5	21.55	21.70	21.63	
1.4	64QAM	3	0	21.87	21.85	21.81	
1.4	64QAM	3	1	21.80	21.88	21.92	
1.4	64QAM	3	3	21.89	21.80	21.95	22
1.4	64QAM	6	0	20.67	20.63	20.80	
1.4	256QAM	1	0	18.79	18.78	18.70	20
1.4	256QAM	1	3	18.52	18.79	18.63	
1.4	256QAM	1	5	18.88	18.77	18.59	
1.4	256QAM	3	0	18.78	18.65	18.66	
1.4	256QAM	3	1	18.66	18.72	18.71	
1.4	256QAM	3	3	18.65	18.78	18.68	20
1.4	256QAM	6	0	18.72	18.91	18.60	



<LTE Band 4_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.61	17.52	17.51	19.1
20	QPSK	1	49	17.57	17.47	17.50	
20	QPSK	1	99	17.50	17.49	17.42	
20	QPSK	50	0	17.35	17.19	17.17	19.1
20	QPSK	50	24	17.32	17.17	17.14	
20	QPSK	50	50	17.26	17.17	17.13	
20	QPSK	100	0	17.30	17.23	17.16	
20	16QAM	1	0	17.37	17.31	17.23	19.1
20	16QAM	1	49	17.22	17.21	17.12	
20	16QAM	1	99	17.31	17.19	17.16	
20	16QAM	50	0	17.36	17.19	17.18	19.1
20	16QAM	50	24	17.30	17.20	17.15	
20	16QAM	50	50	17.30	17.19	17.12	
20	16QAM	100	0	17.30	17.20	17.15	
20	64QAM	1	0	17.52	17.51	17.41	19.1
20	64QAM	1	49	17.60	17.45	17.43	
20	64QAM	1	99	17.38	17.29	17.34	
20	64QAM	50	0	17.40	17.26	17.24	19.1
20	64QAM	50	24	17.37	17.25	17.18	
20	64QAM	50	50	17.36	17.23	17.15	
20	64QAM	100	0	17.38	17.21	17.21	
20	256QAM	1	0	17.42	17.28	17.26	19.1
20	256QAM	1	49	17.43	17.30	17.18	
20	256QAM	1	99	17.23	17.13	17.12	
20	256QAM	50	0	17.19	17.15	17.15	19.1
20	256QAM	50	24	17.13	17.16	17.13	
20	256QAM	50	50	17.12	17.10	17.12	
20	256QAM	100	0	17.20	17.12	17.16	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.44	17.49	17.46	19.1
15	QPSK	1	37	17.38	17.50	17.57	
15	QPSK	1	74	17.36	17.54	17.55	
15	QPSK	36	0	17.17	17.19	17.25	19.1
15	QPSK	36	20	17.17	17.23	17.23	
15	QPSK	36	39	17.12	17.17	17.22	
15	QPSK	75	0	17.15	17.26	17.20	
15	16QAM	1	0	17.23	17.35	17.37	19.1
15	16QAM	1	37	17.13	17.22	17.22	
15	16QAM	1	74	17.14	17.16	17.26	
15	16QAM	36	0	17.24	17.23	17.32	19.1
15	16QAM	36	20	17.16	17.22	17.29	
15	16QAM	36	39	17.17	17.20	17.22	
15	16QAM	75	0	17.14	17.17	17.28	
15	64QAM	1	0	17.47	17.55	17.51	19.1
15	64QAM	1	37	17.48	17.44	17.53	
15	64QAM	1	74	17.23	17.33	17.43	
15	64QAM	36	0	17.24	17.23	17.30	19.1
15	64QAM	36	20	17.23	17.30	17.27	
15	64QAM	36	39	17.22	17.27	17.20	
15	64QAM	75	0	17.26	17.27	17.34	
15	256QAM	1	0	17.45	17.47	17.50	19.1
15	256QAM	1	37	17.35	17.46	17.50	
15	256QAM	1	74	17.12	17.29	17.33	
15	256QAM	36	0	17.14	17.22	17.25	19.1
15	256QAM	36	20	17.10	17.24	17.24	



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15	256QAM	36	39	17.14	17.17	17.21	Tune-up limit (dBm)
15	256QAM	75	0	17.21	17.17	17.21	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.50	17.51	17.48	19.1
10	QPSK	1	25	17.50	17.50	17.50	
10	QPSK	1	49	17.44	17.55	17.49	
10	QPSK	25	0	17.25	17.26	17.17	19.1
10	QPSK	25	12	17.19	17.24	17.20	
10	QPSK	25	25	17.18	17.16	17.17	
10	QPSK	50	0	17.21	17.22	17.16	
10	16QAM	1	0	17.27	17.29	17.22	19.1
10	16QAM	1	25	17.22	17.26	17.21	
10	16QAM	1	49	17.20	17.17	17.15	
10	16QAM	25	0	17.30	17.20	17.20	19.1
10	16QAM	25	12	17.20	17.23	17.23	
10	16QAM	25	25	17.26	17.20	17.19	
10	16QAM	50	0	17.24	17.25	17.13	
10	64QAM	1	0	17.55	17.52	17.44	19.1
10	64QAM	1	25	17.51	17.50	17.42	
10	64QAM	1	49	17.28	17.30	17.34	
10	64QAM	25	0	17.29	17.33	17.24	19.1
10	64QAM	25	12	17.26	17.24	17.18	
10	64QAM	25	25	17.29	17.27	17.21	
10	64QAM	50	0	17.31	17.26	17.20	
10	256QAM	1	0	17.49	17.52	17.39	19.1
10	256QAM	1	25	17.45	17.44	17.42	
10	256QAM	1	49	17.25	17.24	17.33	
10	256QAM	25	0	17.31	17.21	17.17	
10	256QAM	25	12	17.28	17.28	17.17	19.1
10	256QAM	25	25	17.22	17.16	17.10	
10	256QAM	50	0	17.19	17.24	17.15	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.48	17.49	17.46	19.1
5	QPSK	1	12	17.46	17.43	17.50	
5	QPSK	1	24	17.39	17.52	17.47	
5	QPSK	12	0	17.22	17.23	17.21	19.1
5	QPSK	12	7	17.24	17.19	17.18	
5	QPSK	12	13	17.19	17.22	17.26	
5	QPSK	25	0	17.19	17.19	17.27	
5	16QAM	1	0	17.23	17.28	17.27	19.1
5	16QAM	1	12	17.21	17.20	17.11	
5	16QAM	1	24	17.26	17.16	17.28	
5	16QAM	12	0	17.29	17.21	17.30	19.1
5	16QAM	12	7	17.24	17.25	17.21	
5	16QAM	12	13	17.25	17.20	17.24	
5	16QAM	25	0	17.24	17.23	17.22	
5	64QAM	1	0	17.57	17.56	17.51	19.1
5	64QAM	1	12	17.48	17.41	17.56	
5	64QAM	1	24	17.25	17.28	17.44	
5	64QAM	12	0	17.28	17.31	17.32	19.1
5	64QAM	12	7	17.32	17.31	17.31	
5	64QAM	12	13	17.21	17.23	17.29	
5	64QAM	25	0	17.23	17.25	17.34	
5	256QAM	1	0	17.47	17.44	17.50	19.1
5	256QAM	1	12	17.44	17.40	17.43	
5	256QAM	1	24	17.27	17.28	17.41	
5	256QAM	12	0	17.30	17.19	17.26	
5	256QAM	12	7	17.18	17.18	17.26	19.1
5	256QAM	12	13	17.17	17.19	17.15	
5	256QAM	25	0	17.18	17.13	17.26	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	17.38	17.46	17.41	19.1
3	QPSK	1	8	17.41	17.38	17.56	
3	QPSK	1	14	17.29	17.41	17.42	
3	QPSK	8	0	17.14	17.18	17.27	19.1
3	QPSK	8	4	17.13	17.11	17.16	
3	QPSK	8	7	17.15	17.15	17.18	
3	QPSK	15	0	17.12	17.22	17.25	19.1
3	16QAM	1	0	17.15	17.29	17.23	
3	16QAM	1	8	17.19	17.26	17.21	
3	16QAM	1	14	17.10	17.10	17.19	19.1
3	16QAM	8	0	17.17	17.13	17.18	
3	16QAM	8	4	17.15	17.10	17.15	
3	16QAM	8	7	17.11	17.18	17.13	19.1
3	16QAM	15	0	17.14	17.10	17.20	
3	64QAM	1	0	17.40	17.48	17.42	
3	64QAM	1	8	17.45	17.42	17.51	19.1
3	64QAM	1	14	17.19	17.23	17.34	
3	64QAM	8	0	17.22	17.16	17.28	
3	64QAM	8	4	17.18	17.21	17.20	19.1
3	64QAM	8	7	17.20	17.13	17.23	
3	64QAM	15	0	17.22	17.15	17.22	
3	256QAM	1	0	17.44	17.43	17.46	19.1
3	256QAM	1	8	17.36	17.38	17.46	
3	256QAM	1	14	17.15	17.14	17.30	
3	256QAM	8	0	17.13	17.20	17.24	19.1
3	256QAM	8	4	17.12	17.10	17.14	
3	256QAM	8	7	17.14	17.13	17.13	
3	256QAM	15	0	17.10	17.13	17.22	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	19.1
1.4	QPSK	1	0	17.38	17.45	17.42	
1.4	QPSK	1	3	17.36	17.35	17.50	
1.4	QPSK	1	5	17.33	17.40	17.43	19.1
1.4	QPSK	3	0	17.15	17.22	17.17	
1.4	QPSK	3	1	17.19	17.16	17.14	
1.4	QPSK	3	3	17.13	17.13	17.15	19.1
1.4	QPSK	6	0	17.13	17.11	17.24	
1.4	16QAM	1	0	17.20	17.22	17.23	
1.4	16QAM	1	3	17.15	17.23	17.21	19.1
1.4	16QAM	1	5	17.12	17.11	17.22	
1.4	16QAM	3	0	17.21	17.15	17.22	
1.4	16QAM	3	1	17.18	17.21	17.15	19.1
1.4	16QAM	3	3	17.13	17.14	17.19	
1.4	16QAM	6	0	17.13	17.16	17.15	
1.4	64QAM	1	0	17.49	17.42	17.46	19.1
1.4	64QAM	1	3	17.47	17.38	17.47	
1.4	64QAM	1	5	17.26	17.17	17.42	
1.4	64QAM	3	0	17.19	17.12	17.27	19.1
1.4	64QAM	3	1	17.23	17.17	17.22	
1.4	64QAM	3	3	17.21	17.13	17.15	
1.4	64QAM	6	0	17.18	17.12	17.28	19.1
1.4	256QAM	1	0	17.45	17.31	17.35	
1.4	256QAM	1	3	17.36	17.25	17.42	
1.4	256QAM	1	5	17.12	17.15	17.34	19.1
1.4	256QAM	3	0	17.14	17.13	17.18	
1.4	256QAM	3	1	17.18	17.15	17.14	
1.4	256QAM	3	3	17.18	17.16	17.13	19.1
1.4	256QAM	6	0	17.13	17.12	17.23	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.97	23.93	23.90	25
20	QPSK	1	49	23.68	23.67	23.66	
20	QPSK	1	99	23.83	23.85	23.83	
20	QPSK	50	0	23.01	22.96	22.84	24
20	QPSK	50	24	22.97	22.88	22.84	
20	QPSK	50	50	22.88	22.86	22.78	
20	QPSK	100	0	22.92	22.91	22.82	
20	16QAM	1	0	23.18	23.11	23.11	24
20	16QAM	1	49	23.07	23.01	22.99	
20	16QAM	1	99	23.09	23.07	23.04	
20	16QAM	50	0	21.84	21.78	21.78	23
20	16QAM	50	24	21.79	21.87	21.76	
20	16QAM	50	50	21.85	21.86	21.79	
20	16QAM	100	0	21.85	21.85	21.79	
20	64QAM	1	0	22.12	22.08	22.02	23
20	64QAM	1	49	22.08	21.96	21.90	
20	64QAM	1	99	21.99	21.98	21.97	
20	64QAM	50	0	20.99	20.97	20.86	22
20	64QAM	50	24	20.97	20.92	20.86	
20	64QAM	50	50	20.89	20.90	20.85	
20	64QAM	100	0	20.90	20.90	20.85	
20	256QAM	1	0	19.11	19.10	19.06	20
20	256QAM	1	49	18.76	18.82	18.78	
20	256QAM	1	99	18.94	18.95	18.91	
20	256QAM	50	0	18.83	18.88	18.74	20
20	256QAM	50	24	18.97	18.99	18.88	
20	256QAM	50	50	18.87	18.93	18.88	
20	256QAM	100	0	18.87	18.89	18.75	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.90	23.83	23.72	25
15	QPSK	1	37	23.62	23.58	23.58	
15	QPSK	1	74	23.64	23.70	23.67	
15	QPSK	36	0	22.95	22.90	22.64	24
15	QPSK	36	20	22.92	22.76	22.67	
15	QPSK	36	39	22.69	22.79	22.75	
15	QPSK	75	0	22.83	22.73	22.66	
15	16QAM	1	0	23.16	23.05	23.05	24
15	16QAM	1	37	23.02	22.91	22.99	
15	16QAM	1	74	23.07	22.93	22.91	
15	16QAM	36	0	21.64	21.68	21.78	23
15	16QAM	36	20	21.69	21.72	21.66	
15	16QAM	36	39	21.76	21.75	21.71	
15	16QAM	75	0	21.72	21.84	21.61	
15	64QAM	1	0	21.96	21.96	21.89	23
15	64QAM	1	37	21.88	21.86	21.89	
15	64QAM	1	74	21.87	21.92	21.82	
15	64QAM	36	0	20.90	20.93	20.67	22
15	64QAM	36	20	20.78	20.77	20.84	
15	64QAM	36	39	20.81	20.84	20.67	
15	64QAM	75	0	20.81	20.88	20.66	
15	256QAM	1	0	19.06	19.04	18.91	20
15	256QAM	1	37	18.56	18.64	18.59	
15	256QAM	1	74	18.89	18.82	18.74	
15	256QAM	36	0	18.80	18.83	18.59	20
15	256QAM	36	20	18.91	18.82	18.69	



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15	256QAM	36	39	18.76	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.69	18.85	18.57	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.89	23.92	23.83	25
10	QPSK	1	25	23.63	23.48	23.54	
10	QPSK	1	49	23.70	23.76	23.66	
10	QPSK	25	0	22.91	22.96	22.83	24
10	QPSK	25	12	22.86	22.81	22.75	
10	QPSK	25	25	22.70	22.83	22.70	
10	QPSK	50	0	22.91	22.88	22.72	
10	16QAM	1	0	23.13	22.91	23.02	24
10	16QAM	1	25	22.90	22.87	22.88	
10	16QAM	1	49	23.03	22.98	22.93	
10	16QAM	25	0	21.65	21.70	21.60	23
10	16QAM	25	12	21.79	21.86	21.62	
10	16QAM	25	25	21.73	21.66	21.66	
10	16QAM	50	0	21.71	21.67	21.76	
10	64QAM	1	0	22.11	21.92	21.90	23
10	64QAM	1	25	22.07	21.93	21.90	
10	64QAM	1	49	21.96	21.94	21.94	
10	64QAM	25	0	20.82	20.78	20.84	22
10	64QAM	25	12	20.77	20.90	20.77	
10	64QAM	25	25	20.75	20.75	20.82	
10	64QAM	50	0	20.88	20.70	20.69	
10	256QAM	1	0	19.04	19.01	19.02	20
10	256QAM	1	25	18.67	18.71	18.59	
10	256QAM	1	49	18.87	18.82	18.74	
10	256QAM	25	0	18.78	18.73	18.67	
10	256QAM	25	12	18.88	18.88	18.69	20
10	256QAM	25	25	18.82	18.92	18.69	
10	256QAM	50	0	18.77	18.89	18.70	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.96	23.86	23.76	25
5	QPSK	1	12	23.61	23.57	23.62	
5	QPSK	1	24	23.67	23.84	23.68	
5	QPSK	12	0	22.91	22.90	22.72	24
5	QPSK	12	7	22.89	22.71	22.76	
5	QPSK	12	13	22.82	22.76	22.62	
5	QPSK	25	0	22.82	22.78	22.65	
5	16QAM	1	0	23.07	22.96	23.07	24
5	16QAM	1	12	22.97	23.00	22.93	
5	16QAM	1	24	22.91	23.04	22.94	
5	16QAM	12	0	21.77	21.61	21.72	23
5	16QAM	12	7	21.79	21.67	21.75	
5	16QAM	12	13	21.65	21.76	21.65	
5	16QAM	25	0	21.80	21.68	21.65	
5	64QAM	1	0	21.96	21.92	21.94	23
5	64QAM	1	12	22.02	21.78	21.85	
5	64QAM	1	24	21.96	21.95	21.87	
5	64QAM	12	0	20.85	20.79	20.70	22
5	64QAM	12	7	20.92	20.91	20.83	
5	64QAM	12	13	20.84	20.86	20.78	
5	64QAM	25	0	20.81	20.76	20.69	
5	256QAM	1	0	19.06	19.00	18.97	20
5	256QAM	1	12	18.73	18.70	18.74	
5	256QAM	1	24	18.78	18.92	18.84	
5	256QAM	12	0	18.74	18.70	18.54	
5	256QAM	12	7	18.90	18.85	18.82	20
5	256QAM	12	13	18.75	18.86	18.72	
5	256QAM	25	0	18.82	18.74	18.70	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.90	23.78	23.87	25
3	QPSK	1	8	23.53	23.51	23.53	
3	QPSK	1	14	23.72	23.79	23.76	
3	QPSK	8	0	22.91	22.80	22.83	24
3	QPSK	8	4	22.90	22.69	22.77	
3	QPSK	8	7	22.74	22.82	22.73	
3	QPSK	15	0	22.78	22.82	22.69	24
3	16QAM	1	0	23.06	23.09	22.96	
3	16QAM	1	8	22.88	23.00	22.93	
3	16QAM	1	14	22.97	22.96	22.99	23
3	16QAM	8	0	21.67	21.77	21.66	
3	16QAM	8	4	21.70	21.77	21.59	
3	16QAM	8	7	21.83	21.82	21.78	23
3	16QAM	15	0	21.75	21.72	21.65	
3	64QAM	1	0	22.04	22.05	21.85	
3	64QAM	1	8	22.05	21.77	21.76	22
3	64QAM	1	14	21.82	21.80	21.89	
3	64QAM	8	0	20.97	20.88	20.79	
3	64QAM	8	4	20.79	20.87	20.81	20
3	64QAM	8	7	20.75	20.74	20.85	
3	64QAM	15	0	20.71	20.76	20.70	
3	256QAM	1	0	19.05	18.90	18.98	20
3	256QAM	1	8	18.66	18.66	18.66	
3	256QAM	1	14	18.93	18.83	18.86	
3	256QAM	8	0	18.81	18.83	18.69	20
3	256QAM	8	4	18.93	18.91	18.84	
3	256QAM	8	7	18.81	18.85	18.76	
3	256QAM	15	0	18.78	18.75	18.60	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	23.79	23.87	23.84	
1.4	QPSK	1	3	23.52	23.63	23.58	
1.4	QPSK	1	5	23.81	23.81	23.77	24
1.4	QPSK	3	0	23.87	23.92	23.77	
1.4	QPSK	3	1	23.67	23.55	23.61	
1.4	QPSK	3	3	23.79	23.76	23.63	24
1.4	QPSK	6	0	22.97	22.85	22.72	
1.4	16QAM	1	0	22.96	22.75	22.64	
1.4	16QAM	1	3	22.81	22.77	22.75	23
1.4	16QAM	1	5	22.84	22.78	22.82	
1.4	16QAM	3	0	23.00	22.97	22.94	
1.4	16QAM	3	1	22.90	22.95	22.87	23
1.4	16QAM	3	3	23.07	22.92	22.94	
1.4	16QAM	6	0	21.66	21.65	21.72	
1.4	64QAM	1	0	21.60	21.81	21.71	22
1.4	64QAM	1	3	21.67	21.66	21.66	
1.4	64QAM	1	5	21.78	21.81	21.60	
1.4	64QAM	3	0	22.00	21.88	21.86	20
1.4	64QAM	3	1	21.95	21.77	21.73	
1.4	64QAM	3	3	21.95	21.87	21.79	
1.4	64QAM	6	0	20.86	20.82	20.74	20
1.4	256QAM	1	0	18.94	18.96	18.98	
1.4	256QAM	1	3	18.64	18.68	18.76	
1.4	256QAM	1	5	18.92	18.88	18.83	20
1.4	256QAM	3	0	18.71	18.84	18.72	
1.4	256QAM	3	1	18.85	18.80	18.74	
1.4	256QAM	3	3	18.82	18.76	18.87	20
1.4	256QAM	6	0	18.77	18.87	18.58	

**<LTE Band 4_Ant 0_Index 5>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.12	20.17	19.98	
20	QPSK	1	49	19.74	20.08	19.95	21.5
20	QPSK	1	99	19.48	19.95	19.91	
20	QPSK	50	0	20.01	19.94	19.72	
20	QPSK	50	24	19.90	19.86	19.70	21.5
20	QPSK	50	50	19.85	19.79	19.65	
20	QPSK	100	0	19.92	19.89	19.69	
20	16QAM	1	0	20.13	20.04	19.89	21.5
20	16QAM	1	49	20.17	19.92	19.71	
20	16QAM	1	99	20.03	20.01	19.99	
20	16QAM	50	0	20.04	19.87	19.65	21.5
20	16QAM	50	24	19.86	19.81	19.64	
20	16QAM	50	50	19.76	19.74	19.69	
20	16QAM	100	0	19.83	19.72	19.60	21.5
20	64QAM	1	0	20.02	20.00	19.83	
20	64QAM	1	49	19.72	19.78	19.69	
20	64QAM	1	99	19.81	19.29	19.70	21.5
20	64QAM	50	0	19.53	19.41	19.31	
20	64QAM	50	24	19.48	19.40	19.29	
20	64QAM	50	50	19.42	19.44	19.24	21.5
20	64QAM	100	0	19.50	19.49	19.22	
20	256QAM	1	0	18.94	19.13	18.98	
20	256QAM	1	49	19.10	19.14	18.96	20
20	256QAM	1	99	18.93	19.10	18.94	
20	256QAM	50	0	18.80	18.92	18.79	
20	256QAM	50	24	18.87	19.01	18.79	20
20	256QAM	50	50	18.79	18.99	18.72	
20	256QAM	100	0	18.82	18.87	18.82	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.99	20.09	19.88	
15	QPSK	1	37	19.70	19.96	19.94	21.5
15	QPSK	1	74	19.43	19.89	19.81	
15	QPSK	36	0	19.90	19.75	19.66	
15	QPSK	36	20	19.73	19.75	19.64	21.5
15	QPSK	36	39	19.82	19.75	19.56	
15	QPSK	75	0	19.84	19.89	19.55	
15	16QAM	1	0	19.99	19.98	19.85	21.5
15	16QAM	1	37	20.09	19.79	19.54	
15	16QAM	1	74	19.91	19.99	19.81	
15	16QAM	36	0	20.03	19.86	19.48	21.5
15	16QAM	36	20	19.68	19.78	19.63	
15	16QAM	36	39	19.61	19.67	19.64	
15	16QAM	75	0	19.68	19.67	19.56	21.5
15	64QAM	1	0	19.90	19.89	19.67	
15	64QAM	1	37	19.58	19.68	19.59	
15	64QAM	1	74	19.64	19.09	19.61	21.5
15	64QAM	36	0	19.35	19.22	19.24	
15	64QAM	36	20	19.48	19.25	19.13	
15	64QAM	36	39	19.42	19.34	19.07	21.5
15	64QAM	75	0	19.32	19.43	19.20	
15	256QAM	1	0	18.90	19.04	18.83	
15	256QAM	1	37	19.00	19.14	18.86	20
15	256QAM	1	74	18.89	19.05	18.83	
15	256QAM	36	0	18.71	18.76	18.79	
15	256QAM	36	20	18.76	18.89	18.65	20



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15	256QAM	36	39	18.66	18.98	18.70	Tune-up limit (dBm)
15	256QAM	75	0	18.73	18.72	18.70	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.05	20.10	19.79	21.5
10	QPSK	1	25	19.59	20.00	19.91	
10	QPSK	1	49	19.45	19.84	19.76	
10	QPSK	25	0	19.88	19.82	19.71	21.5
10	QPSK	25	12	19.84	19.85	19.68	
10	QPSK	25	25	19.65	19.79	19.47	
10	QPSK	50	0	19.85	19.89	19.50	
10	16QAM	1	0	19.94	20.04	19.70	21.5
10	16QAM	1	25	20.07	19.86	19.69	
10	16QAM	1	49	19.86	19.94	19.86	
10	16QAM	25	0	19.92	19.85	19.60	21.5
10	16QAM	25	12	19.67	19.80	19.48	
10	16QAM	25	25	19.64	19.58	19.55	
10	16QAM	50	0	19.79	19.52	19.49	
10	64QAM	1	0	19.86	19.87	19.79	21.5
10	64QAM	1	25	19.59	19.71	19.50	
10	64QAM	1	49	19.78	19.27	19.68	
10	64QAM	25	0	19.53	19.24	19.27	21.5
10	64QAM	25	12	19.45	19.20	19.24	
10	64QAM	25	25	19.23	19.41	19.06	
10	64QAM	50	0	19.41	19.47	19.14	
10	256QAM	1	0	18.74	19.02	18.82	20
10	256QAM	1	25	18.96	18.99	18.87	
10	256QAM	1	49	18.88	19.09	18.76	
10	256QAM	25	0	18.67	18.85	18.66	20
10	256QAM	25	12	18.73	18.90	18.77	
10	256QAM	25	25	18.70	18.83	18.62	
10	256QAM	50	0	18.65	18.81	18.78	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.16	20.08	19.96	21.5
5	QPSK	1	12	19.69	20.04	19.91	
5	QPSK	1	24	19.43	19.96	19.89	
5	QPSK	12	0	19.97	19.98	19.77	21.5
5	QPSK	12	7	19.98	19.94	19.74	
5	QPSK	12	13	19.82	19.76	19.71	
5	QPSK	25	0	19.96	19.81	19.73	
5	16QAM	1	0	20.12	20.09	19.92	21.5
5	16QAM	1	12	20.15	19.88	19.70	
5	16QAM	1	24	20.10	19.94	19.99	
5	16QAM	12	0	20.07	19.82	19.64	21.5
5	16QAM	12	7	19.87	19.84	19.66	
5	16QAM	12	13	19.80	19.73	19.69	
5	16QAM	25	0	19.85	19.79	19.65	
5	64QAM	1	0	20.05	19.98	19.78	21.5
5	64QAM	1	12	19.74	19.86	19.64	
5	64QAM	1	24	19.78	19.31	19.62	
5	64QAM	12	0	19.48	19.40	19.28	21.5
5	64QAM	12	7	19.48	19.34	19.28	
5	64QAM	12	13	19.44	19.43	19.20	
5	64QAM	25	0	19.49	19.48	19.21	
5	256QAM	1	0	18.98	19.17	19.02	20
5	256QAM	1	12	19.11	19.21	18.98	
5	256QAM	1	24	18.97	19.15	18.87	
5	256QAM	12	0	18.80	18.94	18.77	20
5	256QAM	12	7	18.78	18.93	18.75	
5	256QAM	12	13	18.81	18.94	18.78	
5	256QAM	25	0	18.80	18.87	18.77	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	20.12	20.10	19.99	21.5
3	QPSK	1	8	19.76	20.09	19.96	
3	QPSK	1	14	19.41	19.87	19.91	
3	QPSK	8	0	19.95	19.98	19.71	21.5
3	QPSK	8	4	19.98	19.94	19.65	
3	QPSK	8	7	19.84	19.76	19.72	
3	QPSK	15	0	19.89	19.80	19.73	
3	16QAM	1	0	20.13	20.07	19.93	21.5
3	16QAM	1	8	20.16	19.93	19.73	
3	16QAM	1	14	20.10	19.98	19.97	
3	16QAM	8	0	20.05	19.86	19.67	21.5
3	16QAM	8	4	19.87	19.80	19.67	
3	16QAM	8	7	19.83	19.73	19.72	
3	16QAM	15	0	19.76	19.76	19.65	
3	64QAM	1	0	20.06	19.93	19.82	21.5
3	64QAM	1	8	19.80	19.81	19.71	
3	64QAM	1	14	19.84	19.27	19.70	
3	64QAM	8	0	19.53	19.48	19.30	21.5
3	64QAM	8	4	19.46	19.39	19.31	
3	64QAM	8	7	19.49	19.34	19.26	
3	64QAM	15	0	19.45	19.40	19.24	
3	256QAM	1	0	19.02	19.16	19.05	20
3	256QAM	1	8	19.12	19.18	19.00	
3	256QAM	1	14	18.99	19.12	18.90	
3	256QAM	8	0	18.80	18.91	18.77	20
3	256QAM	8	4	18.82	18.92	18.79	
3	256QAM	8	7	18.78	18.93	18.76	
3	256QAM	15	0	18.77	18.87	18.84	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.14	20.11	19.91	21.5
1.4	QPSK	1	3	19.74	20.02	19.94	
1.4	QPSK	1	5	19.47	19.87	19.93	
1.4	QPSK	3	0	19.98	19.94	19.72	
1.4	QPSK	3	1	19.96	19.92	19.74	
1.4	QPSK	3	3	19.86	19.79	19.69	
1.4	QPSK	6	0	19.92	19.80	19.70	21.5
1.4	16QAM	1	0	20.07	20.06	19.96	21.5
1.4	16QAM	1	3	20.10	19.97	19.76	
1.4	16QAM	1	5	20.08	20.02	19.95	
1.4	16QAM	3	0	20.10	19.85	19.64	
1.4	16QAM	3	1	19.81	19.74	19.68	
1.4	16QAM	3	3	19.81	19.76	19.69	
1.4	16QAM	6	0	19.81	19.78	19.62	21.5
1.4	64QAM	1	0	20.03	19.93	19.80	21.5
1.4	64QAM	1	3	19.77	19.81	19.61	
1.4	64QAM	1	5	19.82	19.29	19.64	
1.4	64QAM	3	0	19.50	19.42	19.24	
1.4	64QAM	3	1	19.40	19.38	19.29	
1.4	64QAM	3	3	19.47	19.35	19.23	
1.4	64QAM	6	0	19.52	19.49	19.28	21.5
1.4	256QAM	1	0	18.98	19.17	19.01	20
1.4	256QAM	1	3	19.08	19.20	18.99	
1.4	256QAM	1	5	18.99	19.09	18.87	
1.4	256QAM	3	0	18.79	18.94	18.75	
1.4	256QAM	3	1	18.77	18.94	18.82	
1.4	256QAM	3	3	18.84	18.99	18.81	
1.4	256QAM	6	0	18.78	18.92	18.80	20

**<LTE Band 4_Ant 5_Index 5>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.71	23.84	23.81	
20	QPSK	1	49	23.70	23.80	23.76	25
20	QPSK	1	99	23.65	23.74	23.75	
20	QPSK	50	0	22.73	22.86	22.81	
20	QPSK	50	24	22.72	22.54	22.68	24
20	QPSK	50	50	22.73	22.82	22.80	
20	QPSK	100	0	22.74	22.80	22.74	
20	16QAM	1	0	23.14	23.18	22.93	24
20	16QAM	1	49	22.98	22.94	22.97	
20	16QAM	1	99	22.86	23.09	23.04	
20	16QAM	50	0	21.71	21.80	21.82	23
20	16QAM	50	24	21.61	21.80	21.71	
20	16QAM	50	50	21.60	21.79	21.80	
20	16QAM	100	0	21.64	21.78	21.73	23
20	64QAM	1	0	21.92	21.98	21.95	
20	64QAM	1	49	21.87	22.02	22.00	
20	64QAM	1	99	21.94	21.94	22.11	22
20	64QAM	50	0	20.81	20.82	20.82	
20	64QAM	50	24	20.83	20.81	20.82	
20	64QAM	50	50	20.81	20.82	20.82	20
20	64QAM	100	0	20.80	20.82	20.78	
20	256QAM	1	0	18.90	18.95	18.89	
20	256QAM	1	49	18.71	18.94	18.72	20
20	256QAM	1	99	18.90	18.77	18.69	
20	256QAM	50	0	18.90	18.76	18.74	20
20	256QAM	50	24	18.77	18.75	18.85	
20	256QAM	50	50	18.76	18.94	18.84	
20	256QAM	100	0	18.84	18.91	18.79	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.67	23.70	23.74	25
15	QPSK	1	37	23.57	23.64	23.74	
15	QPSK	1	74	23.60	23.67	23.59	
15	QPSK	36	0	22.62	22.80	22.72	24
15	QPSK	36	20	22.53	22.41	22.68	
15	QPSK	36	39	22.55	22.76	22.65	
15	QPSK	75	0	22.63	22.73	22.60	24
15	16QAM	1	0	23.02	23.04	22.79	
15	16QAM	1	37	22.87	22.82	22.81	
15	16QAM	1	74	22.77	23.03	22.97	23
15	16QAM	36	0	21.64	21.79	21.78	
15	16QAM	36	20	21.54	21.63	21.51	
15	16QAM	36	39	21.44	21.76	21.75	23
15	16QAM	75	0	21.56	21.68	21.70	
15	64QAM	1	0	21.74	21.94	21.91	
15	64QAM	1	37	21.72	21.83	21.96	23
15	64QAM	1	74	21.85	21.89	21.92	
15	64QAM	36	0	20.67	20.66	20.65	
15	64QAM	36	20	20.64	20.81	20.62	22
15	64QAM	36	39	20.66	20.63	20.67	
15	64QAM	75	0	20.78	20.81	20.77	
15	256QAM	1	0	18.77	18.86	18.88	20
15	256QAM	1	37	18.71	18.75	18.68	
15	256QAM	1	74	18.78	18.62	18.69	
15	256QAM	36	0	18.78	18.64	18.54	20
15	256QAM	36	20	18.61	18.56	18.67	



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15	256QAM	36	39	18.58	18.74	18.68	Tune-up limit (dBm)
15	256QAM	75	0	18.75	18.75	18.62	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.51	23.79	23.80	25
10	QPSK	1	25	23.66	23.80	23.61	
10	QPSK	1	49	23.50	23.55	23.71	
10	QPSK	25	0	22.65	22.79	22.81	24
10	QPSK	25	12	22.60	22.44	22.58	
10	QPSK	25	25	22.69	22.67	22.76	
10	QPSK	50	0	22.72	22.67	22.54	
10	16QAM	1	0	22.95	23.03	22.88	24
10	16QAM	1	25	22.94	22.74	22.92	
10	16QAM	1	49	22.70	23.03	22.90	
10	16QAM	25	0	21.55	21.80	21.76	23
10	16QAM	25	12	21.42	21.67	21.51	
10	16QAM	25	25	21.44	21.66	21.69	
10	16QAM	50	0	21.46	21.76	21.63	
10	64QAM	1	0	21.79	21.79	21.89	23
10	64QAM	1	25	21.71	21.94	21.96	
10	64QAM	1	49	21.94	21.74	22.10	
10	64QAM	25	0	20.69	20.62	20.71	22
10	64QAM	25	12	20.72	20.73	20.74	
10	64QAM	25	25	20.81	20.74	20.74	
10	64QAM	50	0	20.77	20.75	20.58	
10	256QAM	1	0	18.71	18.93	18.86	20
10	256QAM	1	25	18.65	18.89	18.64	
10	256QAM	1	49	18.77	18.61	18.49	
10	256QAM	25	0	18.78	18.57	18.59	20
10	256QAM	25	12	18.60	18.62	18.68	
10	256QAM	25	25	18.64	18.83	18.81	
10	256QAM	50	0	18.81	18.76	18.61	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.58	23.81	23.72	25
5	QPSK	1	12	23.60	23.74	23.64	
5	QPSK	1	24	23.46	23.56	23.63	
5	QPSK	12	0	22.67	22.86	22.75	24
5	QPSK	12	7	22.65	22.34	22.51	
5	QPSK	12	13	22.53	22.75	22.62	
5	QPSK	25	0	22.55	22.67	22.73	
5	16QAM	1	0	23.00	23.11	22.86	24
5	16QAM	1	12	22.86	22.91	22.84	
5	16QAM	1	24	22.67	22.94	22.91	
5	16QAM	12	0	21.55	21.69	21.69	23
5	16QAM	12	7	21.50	21.66	21.70	
5	16QAM	12	13	21.42	21.71	21.64	
5	16QAM	25	0	21.61	21.77	21.69	
5	64QAM	1	0	21.81	21.82	21.85	23
5	64QAM	1	12	21.80	21.97	21.86	
5	64QAM	1	24	21.93	21.90	21.99	
5	64QAM	12	0	20.64	20.73	20.62	22
5	64QAM	12	7	20.81	20.68	20.80	
5	64QAM	12	13	20.68	20.66	20.64	
5	64QAM	25	0	20.70	20.76	20.76	
5	256QAM	1	0	18.72	18.93	18.81	20
5	256QAM	1	12	18.63	18.86	18.72	
5	256QAM	1	24	18.71	18.70	18.60	
5	256QAM	12	0	18.70	18.70	18.63	20
5	256QAM	12	7	18.72	18.56	18.73	
5	256QAM	12	13	18.60	18.78	18.65	
5	256QAM	25	0	18.82	18.71	18.73	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.65	23.71	23.66	25
3	QPSK	1	8	23.68	23.76	23.67	
3	QPSK	1	14	23.50	23.67	23.57	
3	QPSK	8	0	22.53	22.75	22.64	24
3	QPSK	8	4	22.71	22.39	22.53	
3	QPSK	8	7	22.67	22.76	22.76	
3	QPSK	15	0	22.71	22.80	22.60	24
3	16QAM	1	0	23.05	23.05	22.82	
3	16QAM	1	8	22.97	22.88	22.94	
3	16QAM	1	14	22.70	23.01	22.97	23
3	16QAM	8	0	21.58	21.73	21.72	
3	16QAM	8	4	21.53	21.62	21.58	
3	16QAM	8	7	21.41	21.76	21.60	23
3	16QAM	15	0	21.48	21.69	21.56	
3	64QAM	1	0	21.73	21.78	21.75	
3	64QAM	1	8	21.70	22.02	21.95	22
3	64QAM	1	14	21.76	21.89	22.02	
3	64QAM	8	0	20.76	20.70	20.81	
3	64QAM	8	4	20.75	20.78	20.81	20
3	64QAM	8	7	20.77	20.72	20.63	
3	64QAM	15	0	20.79	20.62	20.76	
3	256QAM	1	0	18.73	18.84	18.72	20
3	256QAM	1	8	18.71	18.93	18.65	
3	256QAM	1	14	18.88	18.57	18.67	
3	256QAM	8	0	18.90	18.70	18.63	20
3	256QAM	8	4	18.71	18.73	18.79	
3	256QAM	8	7	18.56	18.93	18.83	
3	256QAM	15	0	18.77	18.80	18.70	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	23.60	23.80	23.73	
1.4	QPSK	1	3	23.64	23.61	23.59	
1.4	QPSK	1	5	23.51	23.67	23.63	24
1.4	QPSK	3	0	23.63	23.79	23.71	
1.4	QPSK	3	1	23.58	23.66	23.60	
1.4	QPSK	3	3	23.53	23.68	23.65	24
1.4	QPSK	6	0	22.68	22.79	22.65	
1.4	16QAM	1	0	22.64	22.42	22.49	
1.4	16QAM	1	3	22.71	22.77	22.70	23
1.4	16QAM	1	5	22.58	22.79	22.59	
1.4	16QAM	3	0	23.00	23.05	22.73	
1.4	16QAM	3	1	22.97	22.76	22.86	23
1.4	16QAM	3	3	22.71	23.07	22.95	
1.4	16QAM	6	0	21.69	21.60	21.79	
1.4	64QAM	1	0	21.41	21.64	21.51	22
1.4	64QAM	1	3	21.46	21.66	21.79	
1.4	64QAM	1	5	21.55	21.70	21.63	
1.4	64QAM	3	0	21.87	21.85	21.81	20
1.4	64QAM	3	1	21.80	21.88	21.92	
1.4	64QAM	3	3	21.89	21.80	21.95	
1.4	64QAM	6	0	20.67	20.63	20.80	20
1.4	256QAM	1	0	18.79	18.78	18.70	
1.4	256QAM	1	3	18.52	18.79	18.63	
1.4	256QAM	1	5	18.88	18.77	18.59	20
1.4	256QAM	3	0	18.78	18.65	18.66	
1.4	256QAM	3	1	18.66	18.72	18.71	
1.4	256QAM	3	3	18.65	18.78	18.68	20
1.4	256QAM	6	0	18.72	18.91	18.60	



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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)
Channel				20050	20175	20300	18.4
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.61	17.52	17.51	
20	QPSK	1	49	17.57	17.47	17.50	18.4
20	QPSK	1	99	17.50	17.49	17.42	
20	QPSK	50	0	17.35	17.19	17.17	
20	QPSK	50	24	17.32	17.17	17.14	18.4
20	QPSK	50	50	17.26	17.17	17.13	
20	QPSK	100	0	17.30	17.23	17.16	
20	16QAM	1	0	17.37	17.31	17.23	18.4
20	16QAM	1	49	17.07	16.95	16.95	
20	16QAM	1	99	17.31	17.19	17.16	
20	16QAM	50	0	17.36	17.19	17.18	18.4
20	16QAM	50	24	17.30	17.20	17.15	
20	16QAM	50	50	17.30	17.19	17.12	
20	16QAM	100	0	17.30	17.20	17.15	18.4
20	64QAM	1	0	17.52	17.51	17.41	
20	64QAM	1	49	17.60	17.45	17.43	
20	64QAM	1	99	17.38	17.29	17.34	18.4
20	64QAM	50	0	17.40	17.26	17.24	
20	64QAM	50	24	17.37	17.25	17.18	
20	64QAM	50	50	17.36	17.23	17.15	18.4
20	64QAM	100	0	17.38	17.21	17.21	
20	256QAM	1	0	17.42	17.28	17.26	
20	256QAM	1	49	17.43	17.30	17.18	18.4
20	256QAM	1	99	17.23	17.13	17.12	
20	256QAM	50	0	17.19	17.02	17.08	
20	256QAM	50	24	17.13	17.02	16.98	18.4
20	256QAM	50	50	17.12	17.06	16.92	
20	256QAM	100	0	17.20	17.00	17.04	
Channel				20025	20175	20325	18.4
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.44	17.49	17.46	
15	QPSK	1	37	17.38	17.50	17.57	18.4
15	QPSK	1	74	17.36	17.54	17.55	
15	QPSK	36	0	17.17	17.19	17.25	
15	QPSK	36	20	17.17	17.23	17.23	18.4
15	QPSK	36	39	17.09	17.17	17.22	
15	QPSK	75	0	17.09	17.26	17.20	
15	16QAM	1	0	17.23	17.35	17.37	18.4
15	16QAM	1	37	16.95	16.97	17.05	
15	16QAM	1	74	17.14	17.16	17.26	
15	16QAM	36	0	17.24	17.23	17.32	18.4
15	16QAM	36	20	17.08	17.22	17.29	
15	16QAM	36	39	17.17	17.20	17.22	
15	16QAM	75	0	17.14	17.17	17.28	18.4
15	64QAM	1	0	17.47	17.55	17.51	
15	64QAM	1	37	17.48	17.44	17.53	
15	64QAM	1	74	17.23	17.33	17.43	18.4
15	64QAM	36	0	17.24	17.23	17.30	
15	64QAM	36	20	17.23	17.30	17.27	
15	64QAM	36	39	17.22	17.27	17.20	18.4
15	64QAM	75	0	17.26	17.27	17.34	
15	256QAM	1	0	17.45	17.47	17.50	
15	256QAM	1	37	17.35	17.46	17.50	18.4
15	256QAM	1	74	17.12	17.29	17.33	
15	256QAM	36	0	17.14	17.22	17.25	
15	256QAM	36	20	17.10	17.24	17.24	18.4



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15	256QAM	36	39	17.14	17.17	17.21	Tune-up limit (dBm)
15	256QAM	75	0	17.21	17.17	17.21	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.50	17.51	17.48	18.4
10	QPSK	1	25	17.50	17.50	17.50	
10	QPSK	1	49	17.44	17.55	17.49	
10	QPSK	25	0	17.25	17.26	17.17	18.4
10	QPSK	25	12	17.19	17.24	17.20	
10	QPSK	25	25	17.18	17.16	17.17	
10	QPSK	50	0	17.21	17.22	17.16	
10	16QAM	1	0	17.27	17.29	17.22	18.4
10	16QAM	1	25	16.96	17.02	16.96	
10	16QAM	1	49	17.20	17.17	17.15	
10	16QAM	25	0	17.30	17.20	17.20	18.4
10	16QAM	25	12	17.20	17.23	17.23	
10	16QAM	25	25	17.26	17.20	17.19	
10	16QAM	50	0	17.24	17.25	17.13	
10	64QAM	1	0	17.55	17.52	17.44	18.4
10	64QAM	1	25	17.51	17.50	17.42	
10	64QAM	1	49	17.28	17.30	17.34	
10	64QAM	25	0	17.29	17.33	17.24	18.4
10	64QAM	25	12	17.26	17.24	17.18	
10	64QAM	25	25	17.29	17.27	17.21	
10	64QAM	50	0	17.31	17.26	17.20	
10	256QAM	1	0	17.49	17.52	17.39	18.4
10	256QAM	1	25	17.45	17.44	17.42	
10	256QAM	1	49	17.25	17.24	17.33	
10	256QAM	25	0	17.31	17.21	17.17	18.4
10	256QAM	25	12	17.28	17.28	17.17	
10	256QAM	25	25	17.22	17.16	17.10	
10	256QAM	50	0	17.19	17.24	17.15	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.48	17.49	17.46	18.4
5	QPSK	1	12	17.46	17.43	17.50	
5	QPSK	1	24	17.39	17.52	17.47	
5	QPSK	12	0	17.22	17.23	17.21	18.4
5	QPSK	12	7	17.24	17.19	17.18	
5	QPSK	12	13	17.19	17.22	17.26	
5	QPSK	25	0	17.19	17.19	17.27	
5	16QAM	1	0	17.23	17.28	17.27	18.4
5	16QAM	1	12	17.02	16.95	17.05	
5	16QAM	1	24	17.26	17.16	17.28	
5	16QAM	12	0	17.29	17.21	17.30	18.4
5	16QAM	12	7	17.24	17.25	17.21	
5	16QAM	12	13	17.25	17.20	17.24	
5	16QAM	25	0	17.24	17.23	17.22	
5	64QAM	1	0	17.57	17.56	17.51	18.4
5	64QAM	1	12	17.48	17.41	17.56	
5	64QAM	1	24	17.25	17.28	17.44	
5	64QAM	12	0	17.28	17.31	17.32	18.4
5	64QAM	12	7	17.32	17.31	17.31	
5	64QAM	12	13	17.21	17.23	17.29	
5	64QAM	25	0	17.23	17.25	17.34	
5	256QAM	1	0	17.47	17.44	17.50	18.4
5	256QAM	1	12	17.44	17.40	17.43	
5	256QAM	1	24	17.27	17.28	17.41	
5	256QAM	12	0	17.30	17.19	17.26	18.4
5	256QAM	12	7	17.18	17.18	17.26	
5	256QAM	12	13	17.17	17.19	17.15	
5	256QAM	25	0	17.18	17.13	17.26	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	17.38	17.46	17.41	18.4
3	QPSK	1	8	17.41	17.38	17.56	
3	QPSK	1	14	17.29	17.41	17.42	
3	QPSK	8	0	17.14	17.18	17.27	18.4
3	QPSK	8	4	17.09	17.11	17.16	
3	QPSK	8	7	17.07	17.15	17.18	
3	QPSK	15	0	17.06	17.22	17.25	18.4
3	16QAM	1	0	17.15	17.29	17.23	
3	16QAM	1	8	16.82	16.95	16.99	
3	16QAM	1	14	17.10	17.10	17.19	18.4
3	16QAM	8	0	17.17	17.09	17.18	
3	16QAM	8	4	17.15	17.10	17.15	
3	16QAM	8	7	17.06	17.18	17.13	18.4
3	16QAM	15	0	17.07	17.10	17.20	
3	64QAM	1	0	17.40	17.48	17.42	
3	64QAM	1	8	17.45	17.42	17.51	18.4
3	64QAM	1	14	17.19	17.23	17.34	
3	64QAM	8	0	17.22	17.16	17.28	
3	64QAM	8	4	17.18	17.21	17.20	18.4
3	64QAM	8	7	17.20	17.13	17.23	
3	64QAM	15	0	17.22	17.15	17.22	
3	256QAM	1	0	17.44	17.43	17.46	18.4
3	256QAM	1	8	17.36	17.38	17.46	
3	256QAM	1	14	17.08	17.14	17.30	
3	256QAM	8	0	17.13	17.20	17.24	18.4
3	256QAM	8	4	17.09	17.10	17.14	
3	256QAM	8	7	17.14	17.13	17.13	
3	256QAM	15	0	17.10	17.07	17.22	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	18.4
1.4	QPSK	1	0	17.38	17.45	17.42	
1.4	QPSK	1	3	17.36	17.35	17.50	
1.4	QPSK	1	5	17.33	17.40	17.43	
1.4	QPSK	3	0	17.15	17.07	17.17	
1.4	QPSK	3	1	17.19	17.03	17.14	
1.4	QPSK	3	3	17.05	17.09	17.15	
1.4	QPSK	6	0	17.13	17.11	17.24	18.4
1.4	16QAM	1	0	17.20	17.22	17.23	18.4
1.4	16QAM	1	3	16.93	16.78	16.98	
1.4	16QAM	1	5	17.12	17.04	17.22	
1.4	16QAM	3	0	17.21	17.04	17.22	
1.4	16QAM	3	1	17.18	17.07	17.15	
1.4	16QAM	3	3	17.13	17.04	17.19	18.4
1.4	16QAM	6	0	17.13	17.08	17.15	
1.4	64QAM	1	0	17.49	17.42	17.46	18.4
1.4	64QAM	1	3	17.47	17.38	17.47	
1.4	64QAM	1	5	17.26	17.17	17.42	
1.4	64QAM	3	0	17.19	17.12	17.27	
1.4	64QAM	3	1	17.23	17.17	17.22	
1.4	64QAM	3	3	17.21	17.13	17.15	18.4
1.4	64QAM	6	0	17.18	17.12	17.28	
1.4	256QAM	1	0	17.45	17.31	17.35	18.4
1.4	256QAM	1	3	17.36	17.25	17.42	
1.4	256QAM	1	5	17.12	17.15	17.34	
1.4	256QAM	3	0	17.14	17.09	17.18	
1.4	256QAM	3	1	17.18	17.09	17.14	
1.4	256QAM	3	3	17.18	17.02	17.13	18.4
1.4	256QAM	6	0	17.13	17.06	17.23	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.97	23.93	23.90	25
20	QPSK	1	49	23.68	23.67	23.66	
20	QPSK	1	99	23.83	23.85	23.83	
20	QPSK	50	0	23.01	22.96	22.84	24
20	QPSK	50	24	22.97	22.88	22.84	
20	QPSK	50	50	22.88	22.86	22.78	
20	QPSK	100	0	22.92	22.91	22.82	24
20	16QAM	1	0	23.18	23.11	23.11	
20	16QAM	1	49	23.07	23.01	22.99	
20	16QAM	1	99	23.09	23.07	23.04	23
20	16QAM	50	0	21.84	21.78	21.78	
20	16QAM	50	24	21.79	21.87	21.76	
20	16QAM	50	50	21.85	21.86	21.79	23
20	16QAM	100	0	21.85	21.85	21.79	
20	64QAM	1	0	22.12	22.08	22.02	
20	64QAM	1	49	22.08	21.96	21.90	22
20	64QAM	1	99	21.99	21.98	21.97	
20	64QAM	50	0	20.99	20.97	20.86	
20	64QAM	50	24	20.97	20.92	20.86	20
20	64QAM	50	50	20.89	20.90	20.85	
20	64QAM	100	0	20.90	20.90	20.85	
20	256QAM	1	0	19.11	19.10	19.06	20
20	256QAM	1	49	18.76	18.82	18.78	
20	256QAM	1	99	18.94	18.95	18.91	
20	256QAM	50	0	18.83	18.88	18.74	20
20	256QAM	50	24	18.97	18.99	18.88	
20	256QAM	50	50	18.87	18.93	18.88	
20	256QAM	100	0	18.87	18.89	18.75	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.90	23.83	23.72	25
15	QPSK	1	37	23.62	23.58	23.58	
15	QPSK	1	74	23.64	23.70	23.67	
15	QPSK	36	0	22.95	22.90	22.64	24
15	QPSK	36	20	22.92	22.76	22.67	
15	QPSK	36	39	22.69	22.79	22.75	
15	QPSK	75	0	22.83	22.73	22.66	24
15	16QAM	1	0	23.16	23.05	23.05	
15	16QAM	1	37	23.02	22.91	22.99	
15	16QAM	1	74	23.07	22.93	22.91	23
15	16QAM	36	0	21.64	21.68	21.78	
15	16QAM	36	20	21.69	21.72	21.66	
15	16QAM	36	39	21.76	21.75	21.71	23
15	16QAM	75	0	21.72	21.84	21.61	
15	64QAM	1	0	21.96	21.96	21.89	
15	64QAM	1	37	21.88	21.86	21.89	22
15	64QAM	1	74	21.87	21.92	21.82	
15	64QAM	36	0	20.90	20.93	20.67	
15	64QAM	36	20	20.78	20.77	20.84	20
15	64QAM	36	39	20.81	20.84	20.67	
15	64QAM	75	0	20.81	20.88	20.66	
15	256QAM	1	0	19.06	19.04	18.91	20
15	256QAM	1	37	18.56	18.64	18.59	
15	256QAM	1	74	18.89	18.82	18.74	
15	256QAM	36	0	18.80	18.83	18.59	20
15	256QAM	36	20	18.91	18.82	18.69	



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15	256QAM	36	39	18.76	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.69	18.85	18.57	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.89	23.92	23.83	25
10	QPSK	1	25	23.63	23.48	23.54	
10	QPSK	1	49	23.70	23.76	23.66	
10	QPSK	25	0	22.91	22.96	22.83	24
10	QPSK	25	12	22.86	22.81	22.75	
10	QPSK	25	25	22.70	22.83	22.70	
10	QPSK	50	0	22.91	22.88	22.72	
10	16QAM	1	0	23.13	22.91	23.02	24
10	16QAM	1	25	22.90	22.87	22.88	
10	16QAM	1	49	23.03	22.98	22.93	
10	16QAM	25	0	21.65	21.70	21.60	23
10	16QAM	25	12	21.79	21.86	21.62	
10	16QAM	25	25	21.73	21.66	21.66	
10	16QAM	50	0	21.71	21.67	21.76	
10	64QAM	1	0	22.11	21.92	21.90	23
10	64QAM	1	25	22.07	21.93	21.90	
10	64QAM	1	49	21.96	21.94	21.94	
10	64QAM	25	0	20.82	20.78	20.84	22
10	64QAM	25	12	20.77	20.90	20.77	
10	64QAM	25	25	20.75	20.75	20.82	
10	64QAM	50	0	20.88	20.70	20.69	
10	256QAM	1	0	19.04	19.01	19.02	20
10	256QAM	1	25	18.67	18.71	18.59	
10	256QAM	1	49	18.87	18.82	18.74	
10	256QAM	25	0	18.78	18.73	18.67	
10	256QAM	25	12	18.88	18.88	18.69	20
10	256QAM	25	25	18.82	18.92	18.69	
10	256QAM	50	0	18.77	18.89	18.70	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.96	23.86	23.76	25
5	QPSK	1	12	23.61	23.57	23.62	
5	QPSK	1	24	23.67	23.84	23.68	
5	QPSK	12	0	22.91	22.90	22.72	24
5	QPSK	12	7	22.89	22.71	22.76	
5	QPSK	12	13	22.82	22.76	22.62	
5	QPSK	25	0	22.82	22.78	22.65	
5	16QAM	1	0	23.07	22.96	23.07	24
5	16QAM	1	12	22.97	23.00	22.93	
5	16QAM	1	24	22.91	23.04	22.94	
5	16QAM	12	0	21.77	21.61	21.72	23
5	16QAM	12	7	21.79	21.67	21.75	
5	16QAM	12	13	21.65	21.76	21.65	
5	16QAM	25	0	21.80	21.68	21.65	
5	64QAM	1	0	21.96	21.92	21.94	23
5	64QAM	1	12	22.02	21.78	21.85	
5	64QAM	1	24	21.96	21.95	21.87	
5	64QAM	12	0	20.85	20.79	20.70	22
5	64QAM	12	7	20.92	20.91	20.83	
5	64QAM	12	13	20.84	20.86	20.78	
5	64QAM	25	0	20.81	20.76	20.69	
5	256QAM	1	0	19.06	19.00	18.97	20
5	256QAM	1	12	18.73	18.70	18.74	
5	256QAM	1	24	18.78	18.92	18.84	
5	256QAM	12	0	18.74	18.70	18.54	20
5	256QAM	12	7	18.90	18.85	18.82	
5	256QAM	12	13	18.75	18.86	18.72	
5	256QAM	25	0	18.82	18.74	18.70	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.90	23.78	23.87	25
3	QPSK	1	8	23.53	23.51	23.53	
3	QPSK	1	14	23.72	23.79	23.76	
3	QPSK	8	0	22.91	22.80	22.83	24
3	QPSK	8	4	22.90	22.69	22.77	
3	QPSK	8	7	22.74	22.82	22.73	
3	QPSK	15	0	22.78	22.82	22.69	24
3	16QAM	1	0	23.06	23.09	22.96	
3	16QAM	1	8	22.88	23.00	22.93	
3	16QAM	1	14	22.97	22.96	22.99	23
3	16QAM	8	0	21.67	21.77	21.66	
3	16QAM	8	4	21.70	21.77	21.59	
3	16QAM	8	7	21.83	21.82	21.78	23
3	16QAM	15	0	21.75	21.72	21.65	
3	64QAM	1	0	22.04	22.05	21.85	
3	64QAM	1	8	22.05	21.77	21.76	22
3	64QAM	1	14	21.82	21.80	21.89	
3	64QAM	8	0	20.97	20.88	20.79	
3	64QAM	8	4	20.79	20.87	20.81	20
3	64QAM	8	7	20.75	20.74	20.85	
3	64QAM	15	0	20.71	20.76	20.70	
3	256QAM	1	0	19.05	18.90	18.98	20
3	256QAM	1	8	18.66	18.66	18.66	
3	256QAM	1	14	18.93	18.83	18.86	
3	256QAM	8	0	18.81	18.83	18.69	20
3	256QAM	8	4	18.93	18.91	18.84	
3	256QAM	8	7	18.81	18.85	18.76	
3	256QAM	15	0	18.78	18.75	18.60	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	23.79	23.87	23.84	
1.4	QPSK	1	3	23.52	23.63	23.58	
1.4	QPSK	1	5	23.81	23.81	23.77	24
1.4	QPSK	3	0	23.87	23.92	23.77	
1.4	QPSK	3	1	23.67	23.55	23.61	
1.4	QPSK	3	3	23.79	23.76	23.63	24
1.4	QPSK	6	0	22.97	22.85	22.72	
1.4	16QAM	1	0	22.96	22.75	22.64	
1.4	16QAM	1	3	22.81	22.77	22.75	23
1.4	16QAM	1	5	22.84	22.78	22.82	
1.4	16QAM	3	0	23.00	22.97	22.94	
1.4	16QAM	3	1	22.90	22.95	22.87	23
1.4	16QAM	3	3	23.07	22.92	22.94	
1.4	16QAM	6	0	21.66	21.65	21.72	
1.4	64QAM	1	0	21.60	21.81	21.71	22
1.4	64QAM	1	3	21.67	21.66	21.66	
1.4	64QAM	1	5	21.78	21.81	21.60	
1.4	64QAM	3	0	22.00	21.88	21.86	20
1.4	64QAM	3	1	21.95	21.77	21.73	
1.4	64QAM	3	3	21.95	21.87	21.79	
1.4	64QAM	6	0	20.86	20.82	20.74	20
1.4	256QAM	1	0	18.94	18.96	18.98	
1.4	256QAM	1	3	18.64	18.68	18.76	
1.4	256QAM	1	5	18.92	18.88	18.83	20
1.4	256QAM	3	0	18.71	18.84	18.72	
1.4	256QAM	3	1	18.85	18.80	18.74	
1.4	256QAM	3	3	18.82	18.76	18.87	20
1.4	256QAM	6	0	18.77	18.87	18.58	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.12	20.17	19.98	
20	QPSK	1	49	19.74	20.08	19.95	20.8
20	QPSK	1	99	19.48	19.95	19.91	
20	QPSK	50	0	20.01	19.94	19.72	
20	QPSK	50	24	19.90	19.86	19.70	20.8
20	QPSK	50	50	19.85	19.79	19.65	
20	QPSK	100	0	19.92	19.89	19.69	
20	16QAM	1	0	20.13	20.04	19.89	20.8
20	16QAM	1	49	20.17	19.92	19.71	
20	16QAM	1	99	20.03	20.01	19.99	
20	16QAM	50	0	20.04	19.87	19.65	20.8
20	16QAM	50	24	19.86	19.81	19.64	
20	16QAM	50	50	19.76	19.74	19.69	
20	16QAM	100	0	19.83	19.72	19.60	20.8
20	64QAM	1	0	20.02	20.00	19.83	
20	64QAM	1	49	19.72	19.78	19.69	
20	64QAM	1	99	19.81	19.29	19.70	20.8
20	64QAM	50	0	19.53	19.41	19.31	
20	64QAM	50	24	19.48	19.40	19.29	
20	64QAM	50	50	19.42	19.44	19.24	20.8
20	64QAM	100	0	19.50	19.49	19.22	
20	256QAM	1	0	18.94	19.13	18.98	
20	256QAM	1	49	19.10	19.14	18.96	20
20	256QAM	1	99	18.93	19.10	18.94	
20	256QAM	50	0	18.80	18.92	18.79	
20	256QAM	50	24	18.87	19.01	18.79	20
20	256QAM	50	50	18.79	18.99	18.72	
20	256QAM	100	0	18.82	18.87	18.82	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.99	20.09	19.88	
15	QPSK	1	37	19.70	19.96	19.94	20.8
15	QPSK	1	74	19.43	19.89	19.81	
15	QPSK	36	0	19.90	19.75	19.66	
15	QPSK	36	20	19.73	19.75	19.64	20.8
15	QPSK	36	39	19.82	19.75	19.56	
15	QPSK	75	0	19.84	19.89	19.55	
15	16QAM	1	0	19.99	19.98	19.85	20.8
15	16QAM	1	37	20.09	19.79	19.54	
15	16QAM	1	74	19.91	19.99	19.81	
15	16QAM	36	0	20.03	19.86	19.48	20.8
15	16QAM	36	20	19.68	19.78	19.63	
15	16QAM	36	39	19.61	19.67	19.64	
15	16QAM	75	0	19.68	19.67	19.56	20.8
15	64QAM	1	0	19.90	19.89	19.67	
15	64QAM	1	37	19.58	19.68	19.59	
15	64QAM	1	74	19.64	19.09	19.61	20.8
15	64QAM	36	0	19.35	19.22	19.24	
15	64QAM	36	20	19.48	19.25	19.13	
15	64QAM	36	39	19.42	19.34	19.07	20.8
15	64QAM	75	0	19.32	19.43	19.20	
15	256QAM	1	0	18.90	19.04	18.83	
15	256QAM	1	37	19.00	19.14	18.86	20
15	256QAM	1	74	18.89	19.05	18.83	
15	256QAM	36	0	18.71	18.76	18.79	
15	256QAM	36	20	18.76	18.89	18.65	20



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15	256QAM	36	39	18.66	18.98	18.70	Tune-up limit (dBm)
15	256QAM	75	0	18.73	18.72	18.70	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.05	20.10	19.79	20.8
10	QPSK	1	25	19.59	20.00	19.91	
10	QPSK	1	49	19.45	19.84	19.76	
10	QPSK	25	0	19.88	19.82	19.71	20.8
10	QPSK	25	12	19.84	19.85	19.68	
10	QPSK	25	25	19.65	19.79	19.47	
10	QPSK	50	0	19.85	19.89	19.50	
10	16QAM	1	0	19.94	20.04	19.70	20.8
10	16QAM	1	25	20.07	19.86	19.69	
10	16QAM	1	49	19.86	19.94	19.86	
10	16QAM	25	0	19.92	19.85	19.60	20.8
10	16QAM	25	12	19.67	19.80	19.48	
10	16QAM	25	25	19.64	19.58	19.55	
10	16QAM	50	0	19.79	19.52	19.49	
10	64QAM	1	0	19.86	19.87	19.79	20.8
10	64QAM	1	25	19.59	19.71	19.50	
10	64QAM	1	49	19.78	19.27	19.68	
10	64QAM	25	0	19.53	19.24	19.27	20.8
10	64QAM	25	12	19.45	19.20	19.24	
10	64QAM	25	25	19.23	19.41	19.06	
10	64QAM	50	0	19.41	19.47	19.14	
10	256QAM	1	0	18.74	19.02	18.82	20
10	256QAM	1	25	18.96	18.99	18.87	
10	256QAM	1	49	18.88	19.09	18.76	
10	256QAM	25	0	18.67	18.85	18.66	20
10	256QAM	25	12	18.73	18.90	18.77	
10	256QAM	25	25	18.70	18.83	18.62	
10	256QAM	50	0	18.65	18.81	18.78	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.21	20.08	19.96	20.8
5	QPSK	1	12	19.69	20.04	19.91	
5	QPSK	1	24	19.43	19.96	19.89	
5	QPSK	12	0	19.97	19.98	19.77	20.8
5	QPSK	12	7	19.98	19.94	19.74	
5	QPSK	12	13	19.82	19.76	19.71	
5	QPSK	25	0	19.96	19.81	19.73	
5	16QAM	1	0	20.12	20.09	19.92	20.8
5	16QAM	1	12	20.15	19.88	19.70	
5	16QAM	1	24	20.10	19.94	19.99	
5	16QAM	12	0	20.07	19.82	19.64	20.8
5	16QAM	12	7	19.87	19.84	19.66	
5	16QAM	12	13	19.80	19.73	19.69	
5	16QAM	25	0	19.85	19.79	19.65	
5	64QAM	1	0	20.05	19.98	19.78	20.8
5	64QAM	1	12	19.74	19.86	19.64	
5	64QAM	1	24	19.78	19.31	19.62	
5	64QAM	12	0	19.48	19.40	19.28	20.8
5	64QAM	12	7	19.48	19.34	19.28	
5	64QAM	12	13	19.44	19.43	19.20	
5	64QAM	25	0	19.49	19.48	19.21	
5	256QAM	1	0	18.98	19.17	19.02	20
5	256QAM	1	12	19.11	19.21	18.98	
5	256QAM	1	24	18.97	19.15	18.87	
5	256QAM	12	0	18.80	18.94	18.77	20
5	256QAM	12	7	18.78	18.93	18.75	
5	256QAM	12	13	18.81	18.94	18.78	
5	256QAM	25	0	18.80	18.87	18.77	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	20.20	20.10	19.99	20.8
3	QPSK	1	8	19.76	20.09	19.96	
3	QPSK	1	14	19.41	19.87	19.91	
3	QPSK	8	0	19.95	19.98	19.71	20.8
3	QPSK	8	4	19.98	19.94	19.65	
3	QPSK	8	7	19.84	19.76	19.72	
3	QPSK	15	0	19.89	19.80	19.73	
3	16QAM	1	0	20.13	20.07	19.93	20.8
3	16QAM	1	8	20.16	19.93	19.73	
3	16QAM	1	14	20.10	19.98	19.97	
3	16QAM	8	0	20.05	19.86	19.67	20.8
3	16QAM	8	4	19.87	19.80	19.67	
3	16QAM	8	7	19.83	19.73	19.72	
3	16QAM	15	0	19.76	19.76	19.65	
3	64QAM	1	0	20.06	19.93	19.82	20.8
3	64QAM	1	8	19.80	19.81	19.71	
3	64QAM	1	14	19.84	19.27	19.70	
3	64QAM	8	0	19.53	19.48	19.30	20.8
3	64QAM	8	4	19.46	19.39	19.31	
3	64QAM	8	7	19.49	19.34	19.26	
3	64QAM	15	0	19.45	19.40	19.24	
3	256QAM	1	0	19.02	19.16	19.05	20
3	256QAM	1	8	19.12	19.18	19.00	
3	256QAM	1	14	18.99	19.12	18.90	
3	256QAM	8	0	18.80	18.91	18.77	20
3	256QAM	8	4	18.82	18.92	18.79	
3	256QAM	8	7	18.78	18.93	18.76	
3	256QAM	15	0	18.77	18.87	18.84	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.21	20.18	19.91	20.8
1.4	QPSK	1	3	19.74	20.02	19.94	
1.4	QPSK	1	5	19.47	19.87	19.93	
1.4	QPSK	3	0	19.98	19.94	19.72	
1.4	QPSK	3	1	19.96	19.92	19.74	
1.4	QPSK	3	3	19.86	19.79	19.69	
1.4	QPSK	6	0	19.92	19.80	19.70	
1.4	16QAM	1	0	20.07	20.06	19.96	20.8
1.4	16QAM	1	3	20.10	19.97	19.76	
1.4	16QAM	1	5	20.08	20.02	19.95	
1.4	16QAM	3	0	20.10	19.85	19.64	
1.4	16QAM	3	1	19.81	19.74	19.68	
1.4	16QAM	3	3	19.81	19.76	19.69	
1.4	16QAM	6	0	19.81	19.78	19.62	20.8
1.4	64QAM	1	0	20.03	19.93	19.80	20.8
1.4	64QAM	1	3	19.77	19.81	19.61	
1.4	64QAM	1	5	19.82	19.29	19.64	
1.4	64QAM	3	0	19.50	19.42	19.24	
1.4	64QAM	3	1	19.40	19.38	19.29	
1.4	64QAM	3	3	19.47	19.35	19.23	
1.4	64QAM	6	0	19.52	19.49	19.28	20.8
1.4	256QAM	1	0	18.98	19.17	19.01	20
1.4	256QAM	1	3	19.08	19.20	18.99	
1.4	256QAM	1	5	18.99	19.09	18.87	
1.4	256QAM	3	0	18.79	18.94	18.75	
1.4	256QAM	3	1	18.77	18.94	18.82	
1.4	256QAM	3	3	18.84	18.99	18.81	
1.4	256QAM	6	0	18.78	18.92	18.80	20



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.71	23.84	23.81	
20	QPSK	1	49	23.70	23.80	23.76	25
20	QPSK	1	99	23.65	23.74	23.75	
20	QPSK	50	0	22.73	22.86	22.81	
20	QPSK	50	24	22.72	22.54	22.68	24
20	QPSK	50	50	22.73	22.82	22.80	
20	QPSK	100	0	22.74	22.80	22.74	
20	16QAM	1	0	23.14	23.18	22.93	24
20	16QAM	1	49	22.98	22.94	22.97	
20	16QAM	1	99	22.86	23.09	23.04	
20	16QAM	50	0	21.71	21.80	21.82	23
20	16QAM	50	24	21.61	21.80	21.71	
20	16QAM	50	50	21.60	21.79	21.80	
20	16QAM	100	0	21.64	21.78	21.73	23
20	64QAM	1	0	21.92	21.98	21.95	
20	64QAM	1	49	21.87	22.02	22.00	
20	64QAM	1	99	21.94	21.94	22.11	22
20	64QAM	50	0	20.81	20.82	20.82	
20	64QAM	50	24	20.83	20.81	20.82	
20	64QAM	50	50	20.81	20.82	20.82	20
20	64QAM	100	0	20.80	20.82	20.78	
20	256QAM	1	0	18.90	18.95	18.89	
20	256QAM	1	49	18.71	18.94	18.72	20
20	256QAM	1	99	18.90	18.77	18.69	
20	256QAM	50	0	18.90	18.76	18.74	
20	256QAM	50	24	18.77	18.75	18.85	20
20	256QAM	50	50	18.76	18.94	18.84	
20	256QAM	100	0	18.84	18.91	18.79	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.67	23.70	23.74	
15	QPSK	1	37	23.57	23.64	23.74	25
15	QPSK	1	74	23.60	23.67	23.59	
15	QPSK	36	0	22.62	22.80	22.72	24
15	QPSK	36	20	22.53	22.41	22.68	
15	QPSK	36	39	22.55	22.76	22.65	
15	QPSK	75	0	22.63	22.73	22.60	24
15	16QAM	1	0	23.02	23.04	22.79	
15	16QAM	1	37	22.87	22.82	22.81	
15	16QAM	1	74	22.77	23.03	22.97	23
15	16QAM	36	0	21.64	21.79	21.78	
15	16QAM	36	20	21.54	21.63	21.51	
15	16QAM	36	39	21.44	21.76	21.75	23
15	16QAM	75	0	21.56	21.68	21.70	
15	64QAM	1	0	21.74	21.94	21.91	
15	64QAM	1	37	21.72	21.83	21.96	23
15	64QAM	1	74	21.85	21.89	21.92	
15	64QAM	36	0	20.67	20.66	20.65	
15	64QAM	36	20	20.64	20.81	20.62	22
15	64QAM	36	39	20.66	20.63	20.67	
15	64QAM	75	0	20.78	20.81	20.77	
15	256QAM	1	0	18.77	18.86	18.88	20
15	256QAM	1	37	18.71	18.75	18.68	
15	256QAM	1	74	18.78	18.62	18.69	
15	256QAM	36	0	18.78	18.64	18.54	20
15	256QAM	36	20	18.61	18.56	18.67	



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15	256QAM	36	39	18.58	18.74	18.68	Tune-up limit (dBm)
15	256QAM	75	0	18.75	18.75	18.62	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.51	23.79	23.80	25
10	QPSK	1	25	23.66	23.80	23.61	
10	QPSK	1	49	23.50	23.55	23.71	
10	QPSK	25	0	22.65	22.79	22.81	24
10	QPSK	25	12	22.60	22.44	22.58	
10	QPSK	25	25	22.69	22.67	22.76	
10	QPSK	50	0	22.72	22.67	22.54	
10	16QAM	1	0	22.95	23.03	22.88	24
10	16QAM	1	25	22.94	22.74	22.92	
10	16QAM	1	49	22.70	23.03	22.90	
10	16QAM	25	0	21.55	21.80	21.76	23
10	16QAM	25	12	21.42	21.67	21.51	
10	16QAM	25	25	21.44	21.66	21.69	
10	16QAM	50	0	21.46	21.76	21.63	
10	64QAM	1	0	21.79	21.79	21.89	23
10	64QAM	1	25	21.71	21.94	21.96	
10	64QAM	1	49	21.94	21.74	22.10	
10	64QAM	25	0	20.69	20.62	20.71	22
10	64QAM	25	12	20.72	20.73	20.74	
10	64QAM	25	25	20.81	20.74	20.74	
10	64QAM	50	0	20.77	20.75	20.58	
10	256QAM	1	0	18.71	18.93	18.86	20
10	256QAM	1	25	18.65	18.89	18.64	
10	256QAM	1	49	18.77	18.61	18.49	
10	256QAM	25	0	18.78	18.57	18.59	20
10	256QAM	25	12	18.60	18.62	18.68	
10	256QAM	25	25	18.64	18.83	18.81	
10	256QAM	50	0	18.81	18.76	18.61	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.58	23.81	23.72	25
5	QPSK	1	12	23.60	23.74	23.64	
5	QPSK	1	24	23.46	23.56	23.63	
5	QPSK	12	0	22.67	22.86	22.75	24
5	QPSK	12	7	22.65	22.34	22.51	
5	QPSK	12	13	22.53	22.75	22.62	
5	QPSK	25	0	22.55	22.67	22.73	
5	16QAM	1	0	23.00	23.11	22.86	24
5	16QAM	1	12	22.86	22.91	22.84	
5	16QAM	1	24	22.67	22.94	22.91	
5	16QAM	12	0	21.55	21.69	21.69	23
5	16QAM	12	7	21.50	21.66	21.70	
5	16QAM	12	13	21.42	21.71	21.64	
5	16QAM	25	0	21.61	21.77	21.69	
5	64QAM	1	0	21.81	21.82	21.85	23
5	64QAM	1	12	21.80	21.97	21.86	
5	64QAM	1	24	21.93	21.90	21.99	
5	64QAM	12	0	20.64	20.73	20.62	22
5	64QAM	12	7	20.81	20.68	20.80	
5	64QAM	12	13	20.68	20.66	20.64	
5	64QAM	25	0	20.70	20.76	20.76	
5	256QAM	1	0	18.72	18.93	18.81	20
5	256QAM	1	12	18.63	18.86	18.72	
5	256QAM	1	24	18.71	18.70	18.60	
5	256QAM	12	0	18.70	18.70	18.63	20
5	256QAM	12	7	18.72	18.56	18.73	
5	256QAM	12	13	18.60	18.78	18.65	
5	256QAM	25	0	18.82	18.71	18.73	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.65	23.71	23.66	25
3	QPSK	1	8	23.68	23.76	23.67	
3	QPSK	1	14	23.50	23.67	23.57	
3	QPSK	8	0	22.53	22.75	22.64	24
3	QPSK	8	4	22.71	22.39	22.53	
3	QPSK	8	7	22.67	22.76	22.76	
3	QPSK	15	0	22.71	22.80	22.60	
3	16QAM	1	0	23.05	23.05	22.82	24
3	16QAM	1	8	22.97	22.88	22.94	
3	16QAM	1	14	22.70	23.01	22.97	
3	16QAM	8	0	21.58	21.73	21.72	23
3	16QAM	8	4	21.53	21.62	21.58	
3	16QAM	8	7	21.41	21.76	21.60	
3	16QAM	15	0	21.48	21.69	21.56	
3	64QAM	1	0	21.73	21.78	21.75	23
3	64QAM	1	8	21.70	22.02	21.95	
3	64QAM	1	14	21.76	21.89	22.02	
3	64QAM	8	0	20.76	20.70	20.81	22
3	64QAM	8	4	20.75	20.78	20.81	
3	64QAM	8	7	20.77	20.72	20.63	
3	64QAM	15	0	20.79	20.62	20.76	
3	256QAM	1	0	18.73	18.84	18.72	20
3	256QAM	1	8	18.71	18.93	18.65	
3	256QAM	1	14	18.88	18.57	18.67	
3	256QAM	8	0	18.90	18.70	18.63	20
3	256QAM	8	4	18.71	18.73	18.79	
3	256QAM	8	7	18.56	18.93	18.83	
3	256QAM	15	0	18.77	18.80	18.70	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.60	23.80	23.73	25
1.4	QPSK	1	3	23.64	23.61	23.59	
1.4	QPSK	1	5	23.51	23.67	23.63	
1.4	QPSK	3	0	23.63	23.79	23.71	
1.4	QPSK	3	1	23.58	23.66	23.60	
1.4	QPSK	3	3	23.53	23.68	23.65	
1.4	QPSK	6	0	22.68	22.79	22.65	24
1.4	16QAM	1	0	22.64	22.42	22.49	24
1.4	16QAM	1	3	22.71	22.77	22.70	
1.4	16QAM	1	5	22.58	22.79	22.59	
1.4	16QAM	3	0	23.00	23.05	22.73	
1.4	16QAM	3	1	22.97	22.76	22.86	
1.4	16QAM	3	3	22.71	23.07	22.95	23
1.4	16QAM	6	0	21.69	21.60	21.79	
1.4	64QAM	1	0	21.41	21.64	21.51	
1.4	64QAM	1	3	21.46	21.66	21.79	
1.4	64QAM	1	5	21.55	21.70	21.63	23
1.4	64QAM	3	0	21.87	21.85	21.81	
1.4	64QAM	3	1	21.80	21.88	21.92	
1.4	64QAM	3	3	21.89	21.80	21.95	
1.4	64QAM	6	0	20.67	20.63	20.80	22
1.4	256QAM	1	0	18.79	18.78	18.70	20
1.4	256QAM	1	3	18.52	18.79	18.63	
1.4	256QAM	1	5	18.88	18.77	18.59	
1.4	256QAM	3	0	18.78	18.65	18.66	
1.4	256QAM	3	1	18.66	18.72	18.71	
1.4	256QAM	3	3	18.65	18.78	18.68	20
1.4	256QAM	6	0	18.72	18.91	18.60	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.03	24.05	23.99	25
20	QPSK	1	49	23.97	23.99	23.78	
20	QPSK	1	99	23.92	23.94	23.91	
20	QPSK	50	0	23.01	23.02	22.99	24
20	QPSK	50	24	22.99	23.00	22.97	
20	QPSK	50	50	22.98	22.99	22.93	
20	QPSK	100	0	22.96	23.04	22.95	
20	16QAM	1	0	23.23	23.28	23.22	24
20	16QAM	1	49	23.13	23.28	23.10	
20	16QAM	1	99	23.14	23.14	23.21	
20	16QAM	50	0	21.94	21.93	21.90	23
20	16QAM	50	24	21.93	21.94	21.92	
20	16QAM	50	50	21.93	21.93	21.90	
20	16QAM	100	0	21.96	21.98	21.92	
20	64QAM	1	0	22.18	22.13	22.14	23
20	64QAM	1	49	22.06	22.04	21.98	
20	64QAM	1	99	22.11	22.05	22.00	
20	64QAM	50	0	21.05	21.03	20.98	22
20	64QAM	50	24	21.03	21.03	20.94	
20	64QAM	50	50	20.99	20.99	20.91	
20	64QAM	100	0	21.01	20.98	20.90	
20	256QAM	1	0	19.22	19.22	19.10	20
20	256QAM	1	49	18.80	18.86	18.73	
20	256QAM	1	99	18.89	18.99	18.84	
20	256QAM	50	0	19.01	19.11	18.92	20
20	256QAM	50	24	18.92	19.01	18.89	
20	256QAM	50	50	18.80	18.90	18.68	
20	256QAM	100	0	18.94	19.01	18.85	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.89	24.02	23.81	25
15	QPSK	1	37	23.87	23.95	23.72	
15	QPSK	1	74	23.92	23.94	23.77	
15	QPSK	36	0	22.92	22.82	22.91	24
15	QPSK	36	20	22.87	22.81	22.85	
15	QPSK	36	39	22.78	22.93	22.76	
15	QPSK	75	0	22.80	23.02	22.76	
15	16QAM	1	0	23.22	23.08	23.15	24
15	16QAM	1	37	23.11	23.26	23.10	
15	16QAM	1	74	23.08	23.00	23.12	
15	16QAM	36	0	21.78	21.79	21.72	23
15	16QAM	36	20	21.93	21.80	21.75	
15	16QAM	36	39	21.85	21.79	21.87	
15	16QAM	75	0	21.93	21.97	21.84	
15	64QAM	1	0	22.06	22.06	22.08	23
15	64QAM	1	37	22.02	22.00	21.87	
15	64QAM	1	74	22.09	21.91	21.89	
15	64QAM	36	0	21.01	20.88	20.85	22
15	64QAM	36	20	20.89	21.02	20.78	
15	64QAM	36	39	20.87	20.79	20.88	
15	64QAM	75	0	21.00	20.84	20.90	
15	256QAM	1	0	19.14	19.02	18.91	20
15	256QAM	1	37	18.73	18.86	18.53	
15	256QAM	1	74	18.80	18.92	18.76	
15	256QAM	36	0	18.88	19.02	18.88	20



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15	256QAM	36	20	18.92	18.86	18.69	
15	256QAM	36	39	18.63	18.71	18.57	
15	256QAM	75	0	18.77	18.89	18.75	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.94	23.85	23.89	25
10	QPSK	1	25	23.83	23.90	23.62	
10	QPSK	1	49	23.83	23.89	23.82	
10	QPSK	25	0	22.84	22.87	22.84	24
10	QPSK	25	12	22.93	22.86	22.91	
10	QPSK	25	25	22.95	22.84	22.89	
10	QPSK	50	0	22.90	22.91	22.78	24
10	16QAM	1	0	23.08	23.22	23.04	
10	16QAM	1	25	23.01	23.11	22.91	
10	16QAM	1	49	23.09	22.98	23.11	23
10	16QAM	25	0	21.83	21.73	21.79	
10	16QAM	25	12	21.81	21.80	21.90	
10	16QAM	25	25	21.85	21.88	21.71	23
10	16QAM	50	0	21.82	21.86	21.89	
10	64QAM	1	0	22.13	21.99	22.02	
10	64QAM	1	25	21.92	21.94	21.83	22
10	64QAM	1	49	21.91	22.03	21.96	
10	64QAM	25	0	21.03	20.98	20.93	
10	64QAM	25	12	20.86	21.03	20.85	20
10	64QAM	25	25	20.88	20.89	20.80	
10	64QAM	50	0	20.98	20.94	20.88	
10	256QAM	1	0	19.08	19.12	19.02	20
10	256QAM	1	25	18.69	18.70	18.60	
10	256QAM	1	49	18.72	18.96	18.70	
10	256QAM	25	0	18.91	18.97	18.88	20
10	256QAM	25	12	18.79	18.97	18.76	
10	256QAM	25	25	18.70	18.79	18.55	
10	256QAM	50	0	18.74	18.81	18.75	Tune-up limit (dBm)
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	23.95	23.90	23.83	
5	QPSK	1	12	23.77	23.96	23.67	25
5	QPSK	1	24	23.87	23.93	23.82	
5	QPSK	12	0	22.90	22.90	22.99	24
5	QPSK	12	7	22.96	22.91	22.81	
5	QPSK	12	13	22.90	22.99	22.84	
5	QPSK	25	0	22.91	22.85	22.94	24
5	16QAM	1	0	23.12	23.08	23.13	
5	16QAM	1	12	23.01	23.26	22.99	
5	16QAM	1	24	22.94	23.07	23.16	23
5	16QAM	12	0	21.76	21.82	21.82	
5	16QAM	12	7	21.76	21.91	21.73	
5	16QAM	12	13	21.93	21.75	21.70	23
5	16QAM	25	0	21.76	21.83	21.81	
5	64QAM	1	0	22.18	21.99	22.05	
5	64QAM	1	12	21.90	21.99	21.92	22
5	64QAM	1	24	22.09	21.90	21.92	
5	64QAM	12	0	20.86	20.85	20.95	
5	64QAM	12	7	20.89	20.85	20.92	20
5	64QAM	12	13	20.80	20.85	20.83	
5	64QAM	25	0	20.92	20.86	20.72	
5	256QAM	1	0	19.11	19.11	18.93	20
5	256QAM	1	12	18.74	18.68	18.56	
5	256QAM	1	24	18.79	18.82	18.64	
5	256QAM	12	0	18.96	19.00	18.83	20
5	256QAM	12	7	18.82	18.97	18.86	
5	256QAM	12	13	18.71	18.90	18.61	
5	256QAM	25	0	18.79	18.89	18.71	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.98	23.94	23.94	25
3	QPSK	1	8	23.80	23.86	23.67	
3	QPSK	1	14	23.75	23.90	23.89	
3	QPSK	8	0	22.90	22.94	22.95	24
3	QPSK	8	4	22.82	22.80	22.97	
3	QPSK	8	7	22.79	22.87	22.84	
3	QPSK	15	0	22.83	23.02	22.80	24
3	16QAM	1	0	23.07	23.21	23.08	
3	16QAM	1	8	23.01	23.25	22.97	
3	16QAM	1	14	23.04	22.95	23.06	23
3	16QAM	8	0	21.90	21.73	21.84	
3	16QAM	8	4	21.89	21.89	21.89	
3	16QAM	8	7	21.92	21.73	21.88	23
3	16QAM	15	0	21.76	21.88	21.76	
3	64QAM	1	0	21.99	21.93	21.99	
3	64QAM	1	8	21.93	21.93	21.89	22
3	64QAM	1	14	22.10	21.85	21.89	
3	64QAM	8	0	20.94	21.03	20.93	
3	64QAM	8	4	20.90	20.93	20.82	20
3	64QAM	8	7	20.80	20.87	20.74	
3	64QAM	15	0	20.90	20.98	20.84	
3	256QAM	1	0	19.13	19.17	18.96	20
3	256QAM	1	8	18.76	18.80	18.56	
3	256QAM	1	14	18.80	18.99	18.77	
3	256QAM	8	0	18.91	18.97	18.73	20
3	256QAM	8	4	18.77	18.81	18.81	
3	256QAM	8	7	18.61	18.71	18.53	
3	256QAM	15	0	18.79	18.87	18.65	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.02	23.86	23.98	25
1.4	QPSK	1	3	23.81	23.96	23.73	
1.4	QPSK	1	5	23.87	23.87	23.72	
1.4	QPSK	3	0	23.93	24.00	23.90	
1.4	QPSK	3	1	23.92	23.84	23.59	
1.4	QPSK	3	3	23.82	23.75	23.80	
1.4	QPSK	6	0	22.95	23.01	22.98	24
1.4	16QAM	1	0	22.79	22.80	22.80	24
1.4	16QAM	1	3	22.79	22.99	22.73	
1.4	16QAM	1	5	22.95	22.91	22.85	
1.4	16QAM	3	0	23.04	23.18	23.06	
1.4	16QAM	3	1	23.03	23.28	23.00	
1.4	16QAM	3	3	22.95	22.97	23.08	
1.4	16QAM	6	0	21.80	21.86	21.85	23
1.4	64QAM	1	0	21.92	21.75	21.92	23
1.4	64QAM	1	3	21.76	21.85	21.81	
1.4	64QAM	1	5	21.78	21.79	21.77	
1.4	64QAM	3	0	22.09	22.01	22.00	
1.4	64QAM	3	1	21.89	22.04	21.87	
1.4	64QAM	3	3	21.96	21.96	21.93	
1.4	64QAM	6	0	20.91	20.93	20.97	22
1.4	256QAM	1	0	19.21	19.06	18.98	20
1.4	256QAM	1	3	18.76	18.71	18.54	
1.4	256QAM	1	5	18.74	18.82	18.78	
1.4	256QAM	3	0	18.83	19.03	18.78	
1.4	256QAM	3	1	18.75	18.94	18.73	
1.4	256QAM	3	3	18.76	18.70	18.58	
1.4	256QAM	6	0	18.74	19.00	18.74	20



<LTE Band 4_Ant 1_Index 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.93	18.96	18.88	
20	QPSK	1	49	18.85	18.67	18.69	19.2
20	QPSK	1	99	18.84	18.92	18.78	
20	QPSK	50	0	18.90	18.91	18.88	
20	QPSK	50	24	18.88	18.90	18.81	19.2
20	QPSK	50	50	18.89	18.86	18.84	
20	QPSK	100	0	18.85	18.89	18.87	
20	16QAM	1	0	18.87	18.82	18.84	19.2
20	16QAM	1	49	18.85	18.88	18.90	
20	16QAM	1	99	18.87	18.82	18.89	
20	16QAM	50	0	18.86	18.95	18.83	19.2
20	16QAM	50	24	18.84	18.83	18.83	
20	16QAM	50	50	18.90	18.81	18.82	
20	16QAM	100	0	18.94	18.90	18.83	19.2
20	64QAM	1	0	18.89	18.90	18.83	
20	64QAM	1	49	18.83	18.82	18.88	
20	64QAM	1	99	18.85	18.94	18.90	19.2
20	64QAM	50	0	18.93	18.94	18.89	
20	64QAM	50	24	18.94	18.87	18.88	
20	64QAM	50	50	18.95	18.90	18.87	19.2
20	64QAM	100	0	18.94	18.80	18.81	
20	256QAM	1	0	18.92	18.89	18.87	
20	256QAM	1	49	18.91	18.91	18.75	19.2
20	256QAM	1	99	18.85	18.89	18.83	
20	256QAM	50	0	18.77	18.90	18.72	
20	256QAM	50	24	18.93	18.90	18.84	19.2
20	256QAM	50	50	18.92	18.83	18.77	
20	256QAM	100	0	18.74	18.86	18.83	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.89	18.80	18.73	
15	QPSK	1	37	18.70	18.66	18.66	19.2
15	QPSK	1	74	18.67	18.82	18.61	
15	QPSK	36	0	18.79	18.87	18.70	
15	QPSK	36	20	18.88	18.76	18.73	19.2
15	QPSK	36	39	18.89	18.85	18.81	
15	QPSK	75	0	18.77	18.85	18.67	
15	16QAM	1	0	18.71	18.80	18.76	19.2
15	16QAM	1	37	18.75	18.76	18.79	
15	16QAM	1	74	18.77	18.64	18.85	
15	16QAM	36	0	18.69	18.93	18.70	19.2
15	16QAM	36	20	18.77	18.81	18.68	
15	16QAM	36	39	18.86	18.75	18.81	
15	16QAM	75	0	18.76	18.85	18.72	19.2
15	64QAM	1	0	18.88	18.80	18.70	
15	64QAM	1	37	18.78	18.77	18.87	
15	64QAM	1	74	18.68	18.81	18.76	19.2
15	64QAM	36	0	18.81	18.75	18.74	
15	64QAM	36	20	18.79	18.81	18.75	
15	64QAM	36	39	18.86	18.90	18.84	19.2
15	64QAM	75	0	18.85	18.60	18.74	
15	256QAM	1	0	18.89	18.74	18.69	
15	256QAM	1	37	18.87	18.80	18.71	19.2
15	256QAM	1	74	18.65	18.76	18.72	
15	256QAM	36	0	18.77	18.75	18.56	
15	256QAM	36	20	18.74	18.78	18.67	19.2



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15	256QAM	36	39	18.82	18.81	18.63	
15	256QAM	75	0	18.61	18.71	18.81	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.83	18.90	18.79	19.2
10	QPSK	1	25	18.65	18.56	18.53	
10	QPSK	1	49	18.83	18.73	18.63	
10	QPSK	25	0	18.70	18.88	18.80	19.2
10	QPSK	25	12	18.81	18.74	18.79	
10	QPSK	25	25	18.69	18.67	18.72	
10	QPSK	50	0	18.75	18.71	18.72	
10	16QAM	1	0	18.69	18.78	18.64	19.2
10	16QAM	1	25	18.81	18.83	18.79	
10	16QAM	1	49	18.78	18.76	18.77	
10	16QAM	25	0	18.82	18.91	18.80	19.2
10	16QAM	25	12	18.77	18.72	18.63	
10	16QAM	25	25	18.85	18.63	18.68	
10	16QAM	50	0	18.87	18.80	18.75	
10	64QAM	1	0	18.75	18.80	18.73	19.2
10	64QAM	1	25	18.74	18.78	18.72	
10	64QAM	1	49	18.67	18.81	18.85	
10	64QAM	25	0	18.85	18.89	18.82	19.2
10	64QAM	25	12	18.79	18.85	18.78	
10	64QAM	25	25	18.81	18.79	18.70	
10	64QAM	50	0	18.74	18.77	18.74	
10	256QAM	1	0	18.91	18.85	18.77	19.2
10	256QAM	1	25	18.87	18.74	18.71	
10	256QAM	1	49	18.73	18.81	18.82	
10	256QAM	25	0	18.62	18.80	18.63	19.2
10	256QAM	25	12	18.91	18.71	18.73	
10	256QAM	25	25	18.80	18.67	18.70	
10	256QAM	50	0	18.60	18.78	18.75	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.92	18.81	18.88	19.2
5	QPSK	1	12	18.84	18.62	18.67	
5	QPSK	1	24	18.64	18.73	18.77	
5	QPSK	12	0	18.75	18.75	18.86	19.2
5	QPSK	12	7	18.74	18.78	18.69	
5	QPSK	12	13	18.72	18.82	18.82	
5	QPSK	25	0	18.82	18.84	18.87	
5	16QAM	1	0	18.78	18.78	18.66	19.2
5	16QAM	1	12	18.85	18.84	18.86	
5	16QAM	1	24	18.71	18.74	18.88	
5	16QAM	12	0	18.80	18.95	18.76	19.2
5	16QAM	12	7	18.67	18.68	18.83	
5	16QAM	12	13	18.85	18.61	18.79	
5	16QAM	25	0	18.82	18.74	18.73	
5	64QAM	1	0	18.79	18.75	18.80	19.2
5	64QAM	1	12	18.72	18.69	18.81	
5	64QAM	1	24	18.85	18.93	18.78	
5	64QAM	12	0	18.79	18.85	18.76	19.2
5	64QAM	12	7	18.93	18.85	18.79	
5	64QAM	12	13	18.90	18.74	18.72	
5	64QAM	25	0	18.87	18.60	18.78	
5	256QAM	1	0	18.72	18.78	18.77	19.2
5	256QAM	1	12	18.76	18.88	18.62	
5	256QAM	1	24	18.65	18.87	18.72	
5	256QAM	12	0	18.57	18.74	18.71	19.2
5	256QAM	12	7	18.80	18.86	18.74	
5	256QAM	12	13	18.90	18.68	18.75	
5	256QAM	25	0	18.67	18.81	18.81	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	18.78	18.86	18.72	19.2
3	QPSK	1	8	18.82	18.67	18.60	
3	QPSK	1	14	18.77	18.85	18.59	
3	QPSK	8	0	18.77	18.76	18.73	19.2
3	QPSK	8	4	18.78	18.75	18.68	
3	QPSK	8	7	18.80	18.75	18.79	
3	QPSK	15	0	18.81	18.74	18.69	
3	16QAM	1	0	18.85	18.77	18.65	19.2
3	16QAM	1	8	18.68	18.86	18.81	
3	16QAM	1	14	18.83	18.64	18.74	
3	16QAM	8	0	18.76	18.80	18.79	19.2
3	16QAM	8	4	18.79	18.78	18.66	
3	16QAM	8	7	18.80	18.79	18.72	
3	16QAM	15	0	18.76	18.82	18.83	
3	64QAM	1	0	18.87	18.88	18.74	19.2
3	64QAM	1	8	18.64	18.68	18.77	
3	64QAM	1	14	18.77	18.83	18.87	
3	64QAM	8	0	18.76	18.79	18.81	19.2
3	64QAM	8	4	18.94	18.77	18.75	
3	64QAM	8	7	18.78	18.89	18.73	
3	64QAM	15	0	18.78	18.63	18.69	
3	256QAM	1	0	18.78	18.75	18.75	19.2
3	256QAM	1	8	18.83	18.72	18.66	
3	256QAM	1	14	18.67	18.80	18.68	
3	256QAM	8	0	18.62	18.85	18.60	19.2
3	256QAM	8	4	18.82	18.70	18.65	
3	256QAM	8	7	18.79	18.78	18.64	
3	256QAM	15	0	18.63	18.69	18.65	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.81	18.95	18.72	19.2
1.4	QPSK	1	3	18.72	18.58	18.50	
1.4	QPSK	1	5	18.83	18.91	18.78	
1.4	QPSK	3	0	18.82	18.91	18.71	
1.4	QPSK	3	1	18.71	18.89	18.69	
1.4	QPSK	3	3	18.79	18.71	18.71	
1.4	QPSK	6	0	18.65	18.72	18.69	
1.4	16QAM	1	0	18.78	18.66	18.80	19.2
1.4	16QAM	1	3	18.70	18.72	18.72	
1.4	16QAM	1	5	18.83	18.76	18.81	
1.4	16QAM	3	0	18.77	18.93	18.75	
1.4	16QAM	3	1	18.72	18.72	18.74	
1.4	16QAM	3	3	18.90	18.68	18.78	
1.4	16QAM	6	0	18.94	18.84	18.65	19.2
1.4	64QAM	1	0	18.80	18.75	18.73	19.2
1.4	64QAM	1	3	18.64	18.80	18.83	
1.4	64QAM	1	5	18.84	18.86	18.87	
1.4	64QAM	3	0	18.78	18.92	18.74	
1.4	64QAM	3	1	18.74	18.68	18.88	
1.4	64QAM	3	3	18.78	18.72	18.68	
1.4	64QAM	6	0	18.75	18.80	18.79	19.2
1.4	256QAM	1	0	18.86	18.89	18.86	19.2
1.4	256QAM	1	3	18.88	18.88	18.75	
1.4	256QAM	1	5	18.83	18.73	18.73	
1.4	256QAM	3	0	18.57	18.74	18.61	
1.4	256QAM	3	1	18.83	18.79	18.80	
1.4	256QAM	3	3	18.73	18.71	18.74	
1.4	256QAM	6	0	18.54	18.75	18.82	19.2



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.03	24.06	24.02	
20	QPSK	1	49	23.94	23.96	23.96	25
20	QPSK	1	99	24.02	23.94	23.98	
20	QPSK	50	0	22.98	23.05	23.02	
20	QPSK	50	24	22.97	23.02	23.00	24
20	QPSK	50	50	22.93	23.00	23.02	
20	QPSK	100	0	23.03	23.04	23.01	
20	16QAM	1	0	23.17	23.34	23.31	24
20	16QAM	1	49	23.08	23.18	23.15	
20	16QAM	1	99	23.03	23.11	23.10	
20	16QAM	50	0	21.99	21.93	21.92	23
20	16QAM	50	24	21.92	21.95	22.01	
20	16QAM	50	50	21.92	21.99	22.05	
20	16QAM	100	0	21.91	21.94	21.96	23
20	64QAM	1	0	22.06	22.07	22.10	
20	64QAM	1	49	22.00	21.93	22.14	
20	64QAM	1	99	22.12	22.25	22.26	22
20	64QAM	50	0	21.04	21.05	21.04	
20	64QAM	50	24	21.00	20.99	21.00	
20	64QAM	50	50	20.94	21.01	21.08	20
20	64QAM	100	0	21.01	21.08	21.06	
20	256QAM	1	0	19.13	19.21	19.17	
20	256QAM	1	49	19.11	19.03	19.16	20
20	256QAM	1	99	19.03	19.14	19.14	
20	256QAM	50	0	19.02	19.16	19.06	20
20	256QAM	50	24	18.98	19.07	19.15	
20	256QAM	50	50	19.04	19.01	19.07	
20	256QAM	100	0	19.06	19.20	18.99	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.84	23.93	23.83	
15	QPSK	1	37	23.93	23.96	23.87	25
15	QPSK	1	74	23.88	23.86	23.97	
15	QPSK	36	0	22.85	22.95	22.84	24
15	QPSK	36	20	22.79	22.96	22.84	
15	QPSK	36	39	22.86	22.98	22.83	
15	QPSK	75	0	22.87	23.04	22.81	24
15	16QAM	1	0	23.17	23.22	23.31	
15	16QAM	1	37	22.88	23.08	23.01	
15	16QAM	1	74	22.95	23.08	23.09	23
15	16QAM	36	0	21.95	21.84	21.90	
15	16QAM	36	20	21.74	21.78	21.97	
15	16QAM	36	39	21.83	21.90	21.92	23
15	16QAM	75	0	21.88	21.89	21.84	
15	64QAM	1	0	22.04	22.04	21.94	
15	64QAM	1	37	21.84	21.81	21.96	22
15	64QAM	1	74	22.03	22.17	22.20	
15	64QAM	36	0	20.89	20.87	20.86	
15	64QAM	36	20	20.82	20.91	20.96	20
15	64QAM	36	39	20.74	20.94	21.05	
15	64QAM	75	0	20.92	20.96	20.93	
15	256QAM	1	0	18.99	19.19	19.16	20
15	256QAM	1	37	19.09	18.85	18.96	
15	256QAM	1	74	18.89	19.06	19.09	
15	256QAM	36	0	18.83	18.96	19.02	20
15	256QAM	36	20	18.90	18.89	19.09	



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15	256QAM	36	39	19.01	18.90	18.93	Tune-up limit (dBm)
15	256QAM	75	0	19.03	19.14	18.98	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.93	24.03	23.98	25
10	QPSK	1	25	23.75	23.89	23.83	
10	QPSK	1	49	23.93	23.78	23.86	
10	QPSK	25	0	22.94	22.86	22.82	24
10	QPSK	25	12	22.89	22.93	22.94	
10	QPSK	25	25	22.81	22.86	22.90	
10	QPSK	50	0	23.02	22.96	22.98	
10	16QAM	1	0	23.08	23.17	23.25	24
10	16QAM	1	25	23.02	23.00	23.06	
10	16QAM	1	49	22.83	22.99	23.00	23
10	16QAM	25	0	21.88	21.78	21.83	
10	16QAM	25	12	21.90	21.85	21.91	
10	16QAM	25	25	21.79	21.86	21.98	
10	16QAM	50	0	21.88	21.93	21.92	23
10	64QAM	1	0	21.95	22.05	21.95	
10	64QAM	1	25	21.81	21.76	22.02	
10	64QAM	1	49	22.05	22.17	22.15	22
10	64QAM	25	0	20.85	20.91	20.99	
10	64QAM	25	12	20.96	20.83	20.82	
10	64QAM	25	25	20.83	20.84	21.04	
10	64QAM	50	0	20.81	21.02	20.97	20
10	256QAM	1	0	19.00	19.08	19.08	
10	256QAM	1	25	18.98	18.95	19.04	
10	256QAM	1	49	19.02	18.98	19.10	
10	256QAM	25	0	18.99	19.15	18.89	20
10	256QAM	25	12	18.93	19.05	19.00	
10	256QAM	25	25	19.04	18.91	19.06	
10	256QAM	50	0	18.89	19.08	18.90	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.87	23.86	23.90	25
5	QPSK	1	12	23.87	23.78	23.93	
5	QPSK	1	24	23.88	23.88	23.86	
5	QPSK	12	0	22.83	23.00	22.83	24
5	QPSK	12	7	22.82	22.85	22.87	
5	QPSK	12	13	22.88	22.85	22.85	
5	QPSK	25	0	22.93	22.87	22.81	
5	16QAM	1	0	22.99	23.18	23.22	24
5	16QAM	1	12	23.02	23.03	23.13	
5	16QAM	1	24	23.00	23.05	23.06	
5	16QAM	12	0	21.94	21.73	21.85	23
5	16QAM	12	7	21.80	21.80	21.99	
5	16QAM	12	13	21.74	21.94	21.94	
5	16QAM	25	0	21.82	21.84	21.78	
5	64QAM	1	0	21.88	21.89	21.92	23
5	64QAM	1	12	21.95	21.81	22.07	
5	64QAM	1	24	22.11	22.16	22.24	
5	64QAM	12	0	20.93	20.99	20.85	22
5	64QAM	12	7	20.80	20.83	20.98	
5	64QAM	12	13	20.90	20.97	21.06	
5	64QAM	25	0	20.95	20.90	21.06	
5	256QAM	1	0	19.11	19.07	19.06	20
5	256QAM	1	12	19.11	19.02	19.08	
5	256QAM	1	24	18.92	18.94	18.95	
5	256QAM	12	0	18.85	19.02	18.91	20
5	256QAM	12	7	18.89	18.94	18.96	
5	256QAM	12	13	18.95	18.94	18.94	
5	256QAM	25	0	18.95	19.17	18.93	Tune-up limit
Channel				19965	20175	20385	



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	24.02	23.96	24.00	25
3	QPSK	1	8	23.85	23.95	23.92	
3	QPSK	1	14	24.02	23.91	23.85	
3	QPSK	8	0	22.97	22.92	22.93	24
3	QPSK	8	4	22.93	22.98	22.94	
3	QPSK	8	7	22.93	22.96	23.02	
3	QPSK	15	0	22.92	22.96	22.92	
3	16QAM	1	0	23.13	23.27	23.15	24
3	16QAM	1	8	22.92	23.12	23.04	
3	16QAM	1	14	23.02	23.01	22.99	
3	16QAM	8	0	21.93	21.91	21.83	23
3	16QAM	8	4	21.75	21.88	21.87	
3	16QAM	8	7	21.74	21.99	22.03	
3	16QAM	15	0	21.78	21.75	21.84	
3	64QAM	1	0	21.89	21.96	22.03	23
3	64QAM	1	8	21.95	21.83	22.02	
3	64QAM	1	14	22.08	22.20	22.17	
3	64QAM	8	0	20.93	20.85	20.92	22
3	64QAM	8	4	20.92	20.82	20.94	
3	64QAM	8	7	20.76	20.97	21.03	
3	64QAM	15	0	21.01	20.89	21.03	
3	256QAM	1	0	19.11	19.04	19.08	20
3	256QAM	1	8	18.93	18.87	18.97	
3	256QAM	1	14	19.01	18.98	19.12	
3	256QAM	8	0	18.94	19.05	18.95	20
3	256QAM	8	4	18.92	18.91	19.10	
3	256QAM	8	7	18.91	18.96	18.95	
3	256QAM	15	0	18.94	19.15	18.79	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.98	23.86	23.90	25
1.4	QPSK	1	3	23.84	23.83	23.78	
1.4	QPSK	1	5	23.86	23.74	23.89	
1.4	QPSK	3	0	24.03	24.05	23.85	
1.4	QPSK	3	1	23.77	23.86	23.90	
1.4	QPSK	3	3	23.91	23.90	23.92	
1.4	QPSK	6	0	22.88	23.02	22.95	24
1.4	16QAM	1	0	22.80	22.86	22.82	24
1.4	16QAM	1	3	22.83	22.99	22.88	
1.4	16QAM	1	5	22.90	22.87	22.87	
1.4	16QAM	3	0	23.05	23.21	23.16	
1.4	16QAM	3	1	22.88	23.12	23.10	
1.4	16QAM	3	3	22.92	23.01	23.02	23
1.4	16QAM	6	0	21.82	21.80	21.91	
1.4	64QAM	1	0	21.72	21.87	21.82	23
1.4	64QAM	1	3	21.90	21.82	21.92	
1.4	64QAM	1	5	21.75	21.85	21.90	
1.4	64QAM	3	0	21.86	21.96	22.02	
1.4	64QAM	3	1	21.92	21.75	22.11	
1.4	64QAM	3	3	22.02	22.23	22.06	22
1.4	64QAM	6	0	20.96	20.91	20.95	
1.4	256QAM	1	0	18.93	19.08	19.13	20
1.4	256QAM	1	3	19.01	18.90	19.04	
1.4	256QAM	1	5	18.87	19.03	18.99	
1.4	256QAM	3	0	19.00	19.01	18.96	
1.4	256QAM	3	1	18.85	18.92	18.96	
1.4	256QAM	3	3	18.85	18.98	18.90	20
1.4	256QAM	6	0	18.91	19.00	18.79	



<LTE Band 4_Ant 5_Index 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.71	23.84	23.81	
20	QPSK	1	49	23.70	23.80	23.76	25
20	QPSK	1	99	23.65	23.74	23.75	
20	QPSK	50	0	22.73	22.86	22.81	
20	QPSK	50	24	22.72	22.54	22.68	24
20	QPSK	50	50	22.73	22.82	22.80	
20	QPSK	100	0	22.74	22.80	22.74	
20	16QAM	1	0	23.14	23.18	22.93	24
20	16QAM	1	49	22.98	22.94	22.97	
20	16QAM	1	99	22.86	23.09	23.04	
20	16QAM	50	0	21.71	21.80	21.82	23
20	16QAM	50	24	21.61	21.80	21.71	
20	16QAM	50	50	21.60	21.79	21.80	
20	16QAM	100	0	21.64	21.78	21.73	23
20	64QAM	1	0	21.92	21.98	21.95	
20	64QAM	1	49	21.87	22.02	22.00	
20	64QAM	1	99	21.94	21.94	22.11	22
20	64QAM	50	0	20.81	20.82	20.82	
20	64QAM	50	24	20.83	20.81	20.82	
20	64QAM	50	50	20.81	20.82	20.82	20
20	64QAM	100	0	20.80	20.82	20.78	
20	256QAM	1	0	18.90	18.95	18.89	
20	256QAM	1	49	18.71	18.94	18.72	20
20	256QAM	1	99	18.90	18.77	18.69	
20	256QAM	50	0	18.90	18.76	18.74	
20	256QAM	50	24	18.77	18.75	18.85	20
20	256QAM	50	50	18.76	18.94	18.84	
20	256QAM	100	0	18.84	18.91	18.79	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.67	23.70	23.74	
15	QPSK	1	37	23.57	23.64	23.74	25
15	QPSK	1	74	23.60	23.67	23.59	
15	QPSK	36	0	22.62	22.80	22.72	24
15	QPSK	36	20	22.53	22.41	22.68	
15	QPSK	36	39	22.55	22.76	22.65	
15	QPSK	75	0	22.63	22.73	22.60	24
15	16QAM	1	0	23.02	23.04	22.79	
15	16QAM	1	37	22.87	22.82	22.81	
15	16QAM	1	74	22.77	23.03	22.97	23
15	16QAM	36	0	21.64	21.79	21.78	
15	16QAM	36	20	21.54	21.63	21.51	
15	16QAM	36	39	21.44	21.76	21.75	23
15	16QAM	75	0	21.56	21.68	21.70	
15	64QAM	1	0	21.74	21.94	21.91	
15	64QAM	1	37	21.72	21.83	21.96	23
15	64QAM	1	74	21.85	21.89	21.92	
15	64QAM	36	0	20.67	20.66	20.65	
15	64QAM	36	20	20.64	20.81	20.62	22
15	64QAM	36	39	20.66	20.63	20.67	
15	64QAM	75	0	20.78	20.81	20.77	
15	256QAM	1	0	18.77	18.86	18.88	20
15	256QAM	1	37	18.71	18.75	18.68	
15	256QAM	1	74	18.78	18.62	18.69	
15	256QAM	36	0	18.78	18.64	18.54	20
15	256QAM	36	20	18.61	18.56	18.67	



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15	256QAM	36	39	18.58	18.74	18.68	Tune-up limit (dBm)
15	256QAM	75	0	18.75	18.75	18.62	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.51	23.79	23.80	25
10	QPSK	1	25	23.66	23.80	23.61	
10	QPSK	1	49	23.50	23.55	23.71	
10	QPSK	25	0	22.65	22.79	22.81	24
10	QPSK	25	12	22.60	22.44	22.58	
10	QPSK	25	25	22.69	22.67	22.76	
10	QPSK	50	0	22.72	22.67	22.54	
10	16QAM	1	0	22.95	23.03	22.88	24
10	16QAM	1	25	22.94	22.74	22.92	
10	16QAM	1	49	22.70	23.03	22.90	23
10	16QAM	25	0	21.55	21.80	21.76	
10	16QAM	25	12	21.42	21.67	21.51	
10	16QAM	25	25	21.44	21.66	21.69	
10	16QAM	50	0	21.46	21.76	21.63	23
10	64QAM	1	0	21.79	21.79	21.89	
10	64QAM	1	25	21.71	21.94	21.96	
10	64QAM	1	49	21.94	21.74	22.10	22
10	64QAM	25	0	20.69	20.62	20.71	
10	64QAM	25	12	20.72	20.73	20.74	
10	64QAM	25	25	20.81	20.74	20.74	
10	64QAM	50	0	20.77	20.75	20.58	20
10	256QAM	1	0	18.71	18.93	18.86	
10	256QAM	1	25	18.65	18.89	18.64	
10	256QAM	1	49	18.77	18.61	18.49	
10	256QAM	25	0	18.78	18.57	18.59	20
10	256QAM	25	12	18.60	18.62	18.68	
10	256QAM	25	25	18.64	18.83	18.81	
10	256QAM	50	0	18.81	18.76	18.61	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.58	23.81	23.72	25
5	QPSK	1	12	23.60	23.74	23.64	
5	QPSK	1	24	23.46	23.56	23.63	
5	QPSK	12	0	22.67	22.86	22.75	24
5	QPSK	12	7	22.65	22.34	22.51	
5	QPSK	12	13	22.53	22.75	22.62	
5	QPSK	25	0	22.55	22.67	22.73	
5	16QAM	1	0	23.00	23.11	22.86	24
5	16QAM	1	12	22.86	22.91	22.84	
5	16QAM	1	24	22.67	22.94	22.91	
5	16QAM	12	0	21.55	21.69	21.69	23
5	16QAM	12	7	21.50	21.66	21.70	
5	16QAM	12	13	21.42	21.71	21.64	
5	16QAM	25	0	21.61	21.77	21.69	
5	64QAM	1	0	21.81	21.82	21.85	23
5	64QAM	1	12	21.80	21.97	21.86	
5	64QAM	1	24	21.93	21.90	21.99	
5	64QAM	12	0	20.64	20.73	20.62	22
5	64QAM	12	7	20.81	20.68	20.80	
5	64QAM	12	13	20.68	20.66	20.64	
5	64QAM	25	0	20.70	20.76	20.76	
5	256QAM	1	0	18.72	18.93	18.81	20
5	256QAM	1	12	18.63	18.86	18.72	
5	256QAM	1	24	18.71	18.70	18.60	
5	256QAM	12	0	18.70	18.70	18.63	20
5	256QAM	12	7	18.72	18.56	18.73	
5	256QAM	12	13	18.60	18.78	18.65	
5	256QAM	25	0	18.82	18.71	18.73	Tune-up limit
Channel				19965	20175	20385	



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.65	23.71	23.66	25
3	QPSK	1	8	23.68	23.76	23.67	
3	QPSK	1	14	23.50	23.67	23.57	
3	QPSK	8	0	22.53	22.75	22.64	24
3	QPSK	8	4	22.71	22.39	22.53	
3	QPSK	8	7	22.67	22.76	22.76	
3	QPSK	15	0	22.71	22.80	22.60	24
3	16QAM	1	0	23.05	23.05	22.82	
3	16QAM	1	8	22.97	22.88	22.94	
3	16QAM	1	14	22.70	23.01	22.97	23
3	16QAM	8	0	21.58	21.73	21.72	
3	16QAM	8	4	21.53	21.62	21.58	
3	16QAM	8	7	21.41	21.76	21.60	23
3	16QAM	15	0	21.48	21.69	21.56	
3	64QAM	1	0	21.73	21.78	21.75	
3	64QAM	1	8	21.70	22.02	21.95	22
3	64QAM	1	14	21.76	21.89	22.02	
3	64QAM	8	0	20.76	20.70	20.81	
3	64QAM	8	4	20.75	20.78	20.81	20
3	64QAM	8	7	20.77	20.72	20.63	
3	64QAM	15	0	20.79	20.62	20.76	
3	256QAM	1	0	18.73	18.84	18.72	20
3	256QAM	1	8	18.71	18.93	18.65	
3	256QAM	1	14	18.88	18.57	18.67	
3	256QAM	8	0	18.90	18.70	18.63	20
3	256QAM	8	4	18.71	18.73	18.79	
3	256QAM	8	7	18.56	18.93	18.83	
3	256QAM	15	0	18.77	18.80	18.70	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	25
1.4	QPSK	1	0	23.60	23.80	23.73	
1.4	QPSK	1	3	23.64	23.61	23.59	
1.4	QPSK	1	5	23.51	23.67	23.63	
1.4	QPSK	3	0	23.63	23.79	23.71	
1.4	QPSK	3	1	23.58	23.66	23.60	
1.4	QPSK	3	3	23.53	23.68	23.65	
1.4	QPSK	6	0	22.68	22.79	22.65	24
1.4	16QAM	1	0	22.64	22.42	22.49	24
1.4	16QAM	1	3	22.71	22.77	22.70	
1.4	16QAM	1	5	22.58	22.79	22.59	
1.4	16QAM	3	0	23.00	23.05	22.73	
1.4	16QAM	3	1	22.97	22.76	22.86	
1.4	16QAM	3	3	22.71	23.07	22.95	23
1.4	16QAM	6	0	21.69	21.60	21.79	
1.4	64QAM	1	0	21.41	21.64	21.51	
1.4	64QAM	1	3	21.46	21.66	21.79	
1.4	64QAM	1	5	21.55	21.70	21.63	
1.4	64QAM	3	0	21.87	21.85	21.81	22
1.4	64QAM	3	1	21.80	21.88	21.92	
1.4	64QAM	3	3	21.89	21.80	21.95	
1.4	64QAM	6	0	20.67	20.63	20.80	
1.4	256QAM	1	0	18.79	18.78	18.70	
1.4	256QAM	1	3	18.52	18.79	18.63	20
1.4	256QAM	1	5	18.88	18.77	18.59	
1.4	256QAM	3	0	18.78	18.65	18.66	
1.4	256QAM	3	1	18.66	18.72	18.71	
1.4	256QAM	3	3	18.65	18.78	18.68	
1.4	256QAM	6	0	18.72	18.91	18.60	20

**<LTE Band 4_Ant 2_Index 9>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	18.9
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.51	18.51	18.55	
20	QPSK	1	49	18.20	18.48	18.25	18.9
20	QPSK	1	99	18.50	18.39	18.46	
20	QPSK	50	0	18.51	18.52	18.53	
20	QPSK	50	24	18.39	18.47	18.41	18.9
20	QPSK	50	50	18.47	18.44	18.39	
20	QPSK	100	0	18.53	18.52	18.54	
20	16QAM	1	0	18.39	18.36	18.22	18.9
20	16QAM	1	49	18.48	18.25	18.16	
20	16QAM	1	99	18.16	18.18	18.10	
20	16QAM	50	0	18.47	18.51	18.47	18.9
20	16QAM	50	24	18.46	18.49	18.40	
20	16QAM	50	50	18.44	18.45	18.41	
20	16QAM	100	0	18.48	18.47	18.38	18.9
20	64QAM	1	0	18.42	18.38	18.23	
20	64QAM	1	49	18.26	18.45	18.31	
20	64QAM	1	99	18.12	18.15	18.11	18.9
20	64QAM	50	0	18.46	18.48	18.44	
20	64QAM	50	24	18.50	18.46	18.46	
20	64QAM	50	50	18.50	18.50	18.47	18.9
20	64QAM	100	0	18.45	18.50	18.42	
20	256QAM	1	0	18.32	18.38	18.51	
20	256QAM	1	49	18.35	18.45	18.42	18.9
20	256QAM	1	99	18.37	18.34	18.53	
20	256QAM	50	0	18.32	18.46	18.43	
20	256QAM	50	24	18.40	18.40	18.36	18.9
20	256QAM	50	50	18.33	18.32	18.36	
20	256QAM	100	0	18.47	18.37	18.53	
Channel				20025	20175	20325	18.9
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.32	18.36	18.41	
15	QPSK	1	37	18.13	18.34	18.15	18.9
15	QPSK	1	74	18.36	18.32	18.29	
15	QPSK	36	0	18.32	18.45	18.41	
15	QPSK	36	20	18.33	18.34	18.21	18.9
15	QPSK	36	39	18.47	18.36	18.19	
15	QPSK	75	0	18.47	18.38	18.35	
15	16QAM	1	0	18.30	18.22	18.13	18.9
15	16QAM	1	37	18.44	18.06	18.06	
15	16QAM	1	74	18.13	18.08	18.10	
15	16QAM	36	0	18.42	18.33	18.36	18.9
15	16QAM	36	20	18.32	18.30	18.35	
15	16QAM	36	39	18.24	18.25	18.23	
15	16QAM	75	0	18.44	18.39	18.22	18.9
15	64QAM	1	0	18.32	18.30	18.18	
15	64QAM	1	37	18.10	18.31	18.19	
15	64QAM	1	74	18.06	17.99	18.06	18.9
15	64QAM	36	0	18.30	18.38	18.44	
15	64QAM	36	20	18.47	18.26	18.26	
15	64QAM	36	39	18.45	18.43	18.41	18.9
15	64QAM	75	0	18.28	18.43	18.33	
15	256QAM	1	0	18.19	18.35	18.49	
15	256QAM	1	37	18.28	18.32	18.42	18.9
15	256QAM	1	74	18.22	18.31	18.38	
15	256QAM	36	0	18.30	18.40	18.27	
15	256QAM	36	20	18.25	18.32	18.18	18.9



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15	256QAM	36	39	18.23	18.23	18.36	
15	256QAM	75	0	18.42	18.23	18.46	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.36	18.34	18.44	18.9
10	QPSK	1	25	18.19	18.30	18.18	
10	QPSK	1	49	18.49	18.33	18.43	
10	QPSK	25	0	18.43	18.36	18.43	18.9
10	QPSK	25	12	18.22	18.32	18.33	
10	QPSK	25	25	18.37	18.24	18.26	
10	QPSK	50	0	18.51	18.39	18.52	
10	16QAM	1	0	18.19	18.26	18.14	18.9
10	16QAM	1	25	18.29	18.17	18.03	
10	16QAM	1	49	17.97	18.10	17.94	
10	16QAM	25	0	18.33	18.41	18.45	18.9
10	16QAM	25	12	18.33	18.33	18.30	
10	16QAM	25	25	18.24	18.27	18.31	
10	16QAM	50	0	18.36	18.31	18.25	
10	64QAM	1	0	18.35	18.29	18.20	18.9
10	64QAM	1	25	18.25	18.25	18.13	
10	64QAM	1	49	18.10	18.00	18.08	
10	64QAM	25	0	18.46	18.42	18.29	18.9
10	64QAM	25	12	18.38	18.26	18.28	
10	64QAM	25	25	18.37	18.49	18.42	
10	64QAM	50	0	18.34	18.30	18.31	
10	256QAM	1	0	18.31	18.18	18.50	18.9
10	256QAM	1	25	18.18	18.42	18.31	
10	256QAM	1	49	18.24	18.30	18.48	
10	256QAM	25	0	18.26	18.28	18.43	18.9
10	256QAM	25	12	18.26	18.22	18.36	
10	256QAM	25	25	18.33	18.31	18.26	
10	256QAM	50	0	18.30	18.33	18.51	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.42	18.33	18.37	18.9
5	QPSK	1	12	18.12	18.29	18.14	
5	QPSK	1	24	18.33	18.25	18.32	
5	QPSK	12	0	18.46	18.47	18.39	18.9
5	QPSK	12	7	18.30	18.30	18.23	
5	QPSK	12	13	18.30	18.28	18.33	
5	QPSK	25	0	18.46	18.44	18.40	
5	16QAM	1	0	18.23	18.21	18.02	18.9
5	16QAM	1	12	18.37	18.18	18.11	
5	16QAM	1	24	18.13	18.03	17.99	
5	16QAM	12	0	18.39	18.51	18.42	18.9
5	16QAM	12	7	18.35	18.39	18.37	
5	16QAM	12	13	18.26	18.27	18.23	
5	16QAM	25	0	18.37	18.31	18.35	
5	64QAM	1	0	18.27	18.27	18.06	18.9
5	64QAM	1	12	18.19	18.28	18.19	
5	64QAM	1	24	17.95	17.95	18.11	
5	64QAM	12	0	18.26	18.48	18.40	18.9
5	64QAM	12	7	18.43	18.43	18.42	
5	64QAM	12	13	18.42	18.34	18.39	
5	64QAM	25	0	18.32	18.44	18.40	
5	256QAM	1	0	18.25	18.34	18.34	18.9
5	256QAM	1	12	18.34	18.35	18.23	
5	256QAM	1	24	18.34	18.29	18.52	
5	256QAM	12	0	18.15	18.35	18.32	18.9
5	256QAM	12	7	18.32	18.34	18.36	
5	256QAM	12	13	18.32	18.13	18.23	
5	256QAM	25	0	18.39	18.36	18.48	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	18.32	18.50	18.48	18.9
3	QPSK	1	8	18.18	18.30	18.13	
3	QPSK	1	14	18.33	18.24	18.46	
3	QPSK	8	0	18.48	18.44	18.42	18.9
3	QPSK	8	4	18.23	18.34	18.41	
3	QPSK	8	7	18.30	18.25	18.39	
3	QPSK	15	0	18.46	18.41	18.44	
3	16QAM	1	0	18.25	18.27	18.18	18.9
3	16QAM	1	8	18.47	18.05	18.12	
3	16QAM	1	14	18.00	18.07	17.98	
3	16QAM	8	0	18.30	18.49	18.46	18.9
3	16QAM	8	4	18.36	18.38	18.38	
3	16QAM	8	7	18.43	18.43	18.21	
3	16QAM	15	0	18.35	18.45	18.23	
3	64QAM	1	0	18.32	18.22	18.19	18.9
3	64QAM	1	8	18.24	18.28	18.15	
3	64QAM	1	14	18.10	17.97	17.94	
3	64QAM	8	0	18.28	18.48	18.24	18.9
3	64QAM	8	4	18.34	18.38	18.40	
3	64QAM	8	7	18.33	18.37	18.42	
3	64QAM	15	0	18.28	18.39	18.41	
3	256QAM	1	0	18.27	18.25	18.41	18.9
3	256QAM	1	8	18.22	18.37	18.38	
3	256QAM	1	14	18.29	18.20	18.36	
3	256QAM	8	0	18.12	18.30	18.31	18.9
3	256QAM	8	4	18.37	18.23	18.26	
3	256QAM	8	7	18.22	18.21	18.19	
3	256QAM	15	0	18.38	18.26	18.36	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.37	18.39	18.49	18.9
1.4	QPSK	1	3	18.13	18.33	18.09	
1.4	QPSK	1	5	18.48	18.38	18.30	
1.4	QPSK	3	0	18.48	18.50	18.52	
1.4	QPSK	3	1	18.22	18.29	18.30	
1.4	QPSK	3	3	18.31	18.33	18.21	
1.4	QPSK	6	0	18.40	18.32	18.34	18.9
1.4	16QAM	1	0	18.34	18.17	18.02	18.9
1.4	16QAM	1	3	18.33	18.10	18.10	
1.4	16QAM	1	5	17.96	18.16	17.90	
1.4	16QAM	3	0	18.40	18.40	18.42	
1.4	16QAM	3	1	18.26	18.33	18.29	
1.4	16QAM	3	3	18.30	18.40	18.22	
1.4	16QAM	6	0	18.41	18.40	18.21	18.9
1.4	64QAM	1	0	18.35	18.29	18.17	18.9
1.4	64QAM	1	3	18.09	18.26	18.18	
1.4	64QAM	1	5	18.06	18.01	18.09	
1.4	64QAM	3	0	18.35	18.41	18.35	
1.4	64QAM	3	1	18.41	18.30	18.36	
1.4	64QAM	3	3	18.46	18.33	18.37	
1.4	64QAM	6	0	18.39	18.47	18.36	18.9
1.4	256QAM	1	0	18.20	18.30	18.48	18.9
1.4	256QAM	1	3	18.24	18.36	18.27	
1.4	256QAM	1	5	18.22	18.14	18.36	
1.4	256QAM	3	0	18.18	18.36	18.26	
1.4	256QAM	3	1	18.34	18.30	18.25	
1.4	256QAM	3	3	18.25	18.22	18.18	
1.4	256QAM	6	0	18.32	18.29	18.49	18.9



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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)
Channel				20050	20175	20300	24.6
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.97	23.93	23.90	
20	QPSK	1	49	23.68	23.67	23.66	24
20	QPSK	1	99	23.83	23.85	23.83	
20	QPSK	50	0	23.01	22.96	22.84	
20	QPSK	50	24	22.97	22.88	22.84	24
20	QPSK	50	50	22.88	22.86	22.78	
20	QPSK	100	0	22.92	22.91	22.82	
20	16QAM	1	0	23.18	23.11	23.11	24
20	16QAM	1	49	23.07	23.01	22.99	
20	16QAM	1	99	23.09	23.07	23.04	
20	16QAM	50	0	21.84	21.78	21.78	23
20	16QAM	50	24	21.79	21.87	21.76	
20	16QAM	50	50	21.85	21.86	21.79	
20	16QAM	100	0	21.85	21.85	21.79	23
20	64QAM	1	0	22.12	22.08	22.02	
20	64QAM	1	49	22.08	21.96	21.90	
20	64QAM	1	99	21.99	21.98	21.97	22
20	64QAM	50	0	20.99	20.97	20.86	
20	64QAM	50	24	20.97	20.92	20.86	
20	64QAM	50	50	20.89	20.90	20.85	20
20	64QAM	100	0	20.90	20.90	20.85	
20	256QAM	1	0	19.11	19.10	19.06	
20	256QAM	1	49	18.76	18.82	18.78	20
20	256QAM	1	99	18.94	18.95	18.91	
20	256QAM	50	0	18.83	18.88	18.74	20
20	256QAM	50	24	18.97	18.99	18.88	
20	256QAM	50	50	18.87	18.93	18.88	
20	256QAM	100	0	18.87	18.89	18.75	24.6
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.90	23.83	23.72	24.6
15	QPSK	1	37	23.62	23.58	23.58	
15	QPSK	1	74	23.64	23.70	23.67	
15	QPSK	36	0	22.95	22.90	22.64	24
15	QPSK	36	20	22.92	22.76	22.67	
15	QPSK	36	39	22.69	22.79	22.75	
15	QPSK	75	0	22.83	22.73	22.66	24
15	16QAM	1	0	23.16	23.05	23.05	
15	16QAM	1	37	23.02	22.91	22.99	
15	16QAM	1	74	23.07	22.93	22.91	23
15	16QAM	36	0	21.64	21.68	21.78	
15	16QAM	36	20	21.69	21.72	21.66	
15	16QAM	36	39	21.76	21.75	21.71	23
15	16QAM	75	0	21.72	21.84	21.61	
15	64QAM	1	0	21.96	21.96	21.89	
15	64QAM	1	37	21.88	21.86	21.89	22
15	64QAM	1	74	21.87	21.92	21.82	
15	64QAM	36	0	20.90	20.93	20.67	
15	64QAM	36	20	20.78	20.77	20.84	20
15	64QAM	36	39	20.81	20.84	20.67	
15	64QAM	75	0	20.81	20.88	20.66	
15	256QAM	1	0	19.06	19.04	18.91	20
15	256QAM	1	37	18.56	18.64	18.59	
15	256QAM	1	74	18.89	18.82	18.74	
15	256QAM	36	0	18.80	18.83	18.59	20
15	256QAM	36	20	18.91	18.82	18.69	



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15	256QAM	36	39	18.76	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.69	18.85	18.57	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.89	23.92	23.83	24.6
10	QPSK	1	25	23.63	23.48	23.54	
10	QPSK	1	49	23.70	23.76	23.66	
10	QPSK	25	0	22.91	22.96	22.83	24
10	QPSK	25	12	22.86	22.81	22.75	
10	QPSK	25	25	22.70	22.83	22.70	
10	QPSK	50	0	22.91	22.88	22.72	
10	16QAM	1	0	23.13	22.91	23.02	24
10	16QAM	1	25	22.90	22.87	22.88	
10	16QAM	1	49	23.03	22.98	22.93	
10	16QAM	25	0	21.65	21.70	21.60	23
10	16QAM	25	12	21.79	21.86	21.62	
10	16QAM	25	25	21.73	21.66	21.66	
10	16QAM	50	0	21.71	21.67	21.76	
10	64QAM	1	0	22.11	21.92	21.90	23
10	64QAM	1	25	22.07	21.93	21.90	
10	64QAM	1	49	21.96	21.94	21.94	
10	64QAM	25	0	20.82	20.78	20.84	22
10	64QAM	25	12	20.77	20.90	20.77	
10	64QAM	25	25	20.75	20.75	20.82	
10	64QAM	50	0	20.88	20.70	20.69	
10	256QAM	1	0	19.04	19.01	19.02	20
10	256QAM	1	25	18.67	18.71	18.59	
10	256QAM	1	49	18.87	18.82	18.74	
10	256QAM	25	0	18.78	18.73	18.67	20
10	256QAM	25	12	18.88	18.88	18.69	
10	256QAM	25	25	18.82	18.92	18.69	
10	256QAM	50	0	18.77	18.89	18.70	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.96	23.86	23.76	24.6
5	QPSK	1	12	23.61	23.57	23.62	
5	QPSK	1	24	23.67	23.84	23.68	
5	QPSK	12	0	22.91	22.90	22.72	24
5	QPSK	12	7	22.89	22.71	22.76	
5	QPSK	12	13	22.82	22.76	22.62	
5	QPSK	25	0	22.82	22.78	22.65	
5	16QAM	1	0	23.07	22.96	23.07	24
5	16QAM	1	12	22.97	23.00	22.93	
5	16QAM	1	24	22.91	23.04	22.94	
5	16QAM	12	0	21.77	21.61	21.72	23
5	16QAM	12	7	21.79	21.67	21.75	
5	16QAM	12	13	21.65	21.76	21.65	
5	16QAM	25	0	21.80	21.68	21.65	
5	64QAM	1	0	21.96	21.92	21.94	23
5	64QAM	1	12	22.02	21.78	21.85	
5	64QAM	1	24	21.96	21.95	21.87	
5	64QAM	12	0	20.85	20.79	20.70	22
5	64QAM	12	7	20.92	20.91	20.83	
5	64QAM	12	13	20.84	20.86	20.78	
5	64QAM	25	0	20.81	20.76	20.69	
5	256QAM	1	0	19.06	19.00	18.97	20
5	256QAM	1	12	18.73	18.70	18.74	
5	256QAM	1	24	18.78	18.92	18.84	
5	256QAM	12	0	18.74	18.70	18.54	20
5	256QAM	12	7	18.90	18.85	18.82	
5	256QAM	12	13	18.75	18.86	18.72	
5	256QAM	25	0	18.82	18.74	18.70	Tune-up limit
Channel				19965	20175	20385	



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.90	23.78	23.87	24.6
3	QPSK	1	8	23.53	23.51	23.53	
3	QPSK	1	14	23.72	23.79	23.76	
3	QPSK	8	0	22.91	22.80	22.83	24
3	QPSK	8	4	22.90	22.69	22.77	
3	QPSK	8	7	22.74	22.82	22.73	
3	QPSK	15	0	22.78	22.82	22.69	
3	16QAM	1	0	23.06	23.09	22.96	24
3	16QAM	1	8	22.88	23.00	22.93	
3	16QAM	1	14	22.97	22.96	22.99	
3	16QAM	8	0	21.67	21.77	21.66	23
3	16QAM	8	4	21.70	21.77	21.59	
3	16QAM	8	7	21.83	21.82	21.78	
3	16QAM	15	0	21.75	21.72	21.65	
3	64QAM	1	0	22.04	22.05	21.85	23
3	64QAM	1	8	22.05	21.77	21.76	
3	64QAM	1	14	21.82	21.80	21.89	
3	64QAM	8	0	20.97	20.88	20.79	22
3	64QAM	8	4	20.79	20.87	20.81	
3	64QAM	8	7	20.75	20.74	20.85	
3	64QAM	15	0	20.71	20.76	20.70	
3	256QAM	1	0	19.05	18.90	18.98	20
3	256QAM	1	8	18.66	18.66	18.66	
3	256QAM	1	14	18.93	18.83	18.86	
3	256QAM	8	0	18.81	18.83	18.69	20
3	256QAM	8	4	18.93	18.91	18.84	
3	256QAM	8	7	18.81	18.85	18.76	
3	256QAM	15	0	18.78	18.75	18.60	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.79	23.87	23.84	24.6
1.4	QPSK	1	3	23.52	23.63	23.58	
1.4	QPSK	1	5	23.81	23.81	23.77	
1.4	QPSK	3	0	23.87	23.92	23.77	
1.4	QPSK	3	1	23.67	23.55	23.61	
1.4	QPSK	3	3	23.79	23.76	23.63	
1.4	QPSK	6	0	22.97	22.85	22.72	24
1.4	16QAM	1	0	22.96	22.75	22.64	24
1.4	16QAM	1	3	22.81	22.77	22.75	
1.4	16QAM	1	5	22.84	22.78	22.82	
1.4	16QAM	3	0	23.00	22.97	22.94	
1.4	16QAM	3	1	22.90	22.95	22.87	
1.4	16QAM	3	3	23.07	22.92	22.94	23
1.4	16QAM	6	0	21.66	21.65	21.72	
1.4	64QAM	1	0	21.60	21.81	21.71	
1.4	64QAM	1	3	21.67	21.66	21.66	
1.4	64QAM	1	5	21.78	21.81	21.60	23
1.4	64QAM	3	0	22.00	21.88	21.86	
1.4	64QAM	3	1	21.95	21.77	21.73	
1.4	64QAM	3	3	21.95	21.87	21.79	
1.4	64QAM	6	0	20.86	20.82	20.74	22
1.4	256QAM	1	0	18.94	18.96	18.98	20
1.4	256QAM	1	3	18.64	18.68	18.76	
1.4	256QAM	1	5	18.92	18.88	18.83	
1.4	256QAM	3	0	18.71	18.84	18.72	
1.4	256QAM	3	1	18.85	18.80	18.74	
1.4	256QAM	3	3	18.82	18.76	18.87	20
1.4	256QAM	6	0	18.77	18.87	18.58	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.07	19.04	19.13	
20	QPSK	1	49	19.03	18.98	18.94	19.2
20	QPSK	1	99	18.98	18.97	19.11	
20	QPSK	50	0	19.11	19.08	19.12	
20	QPSK	50	24	19.04	19.00	19.04	19.2
20	QPSK	50	50	19.03	19.00	19.01	
20	QPSK	100	0	18.99	19.07	19.10	
20	16QAM	1	0	19.10	19.07	19.05	19.2
20	16QAM	1	49	19.06	19.04	19.07	
20	16QAM	1	99	19.02	19.09	19.05	
20	16QAM	50	0	18.99	18.99	19.11	19.2
20	16QAM	50	24	18.97	19.02	19.01	
20	16QAM	50	50	18.95	18.97	19.02	
20	16QAM	100	0	18.98	19.00	19.02	19.2
20	64QAM	1	0	19.12	19.02	19.09	
20	64QAM	1	49	19.07	19.01	19.10	
20	64QAM	1	99	19.08	19.08	19.10	19.2
20	64QAM	50	0	19.09	18.98	19.05	
20	64QAM	50	24	19.08	18.98	19.06	
20	64QAM	50	50	19.01	18.95	19.02	19.2
20	64QAM	100	0	19.04	19.08	19.12	
20	256QAM	1	0	18.85	18.97	19.12	
20	256QAM	1	49	18.93	18.89	19.03	19.2
20	256QAM	1	99	18.93	18.93	18.93	
20	256QAM	50	0	18.97	18.92	19.10	
20	256QAM	50	24	18.94	19.08	19.09	19.2
20	256QAM	50	50	18.96	19.01	18.97	
20	256QAM	100	0	18.89	18.93	19.06	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.07	18.92	18.93	
15	QPSK	1	37	19.02	18.81	18.78	19.2
15	QPSK	1	74	18.95	18.86	18.97	
15	QPSK	36	0	18.93	18.89	18.94	19.2
15	QPSK	36	20	19.04	18.96	18.94	
15	QPSK	36	39	18.84	18.82	18.84	
15	QPSK	75	0	18.85	18.95	18.90	19.2
15	16QAM	1	0	19.10	19.00	18.95	
15	16QAM	1	37	18.89	18.89	18.96	
15	16QAM	1	74	18.98	18.90	18.98	19.2
15	16QAM	36	0	18.93	18.83	18.98	
15	16QAM	36	20	18.78	18.93	18.82	
15	16QAM	36	39	18.77	18.79	19.00	19.2
15	16QAM	75	0	18.97	18.89	19.02	
15	64QAM	1	0	19.07	18.94	18.90	
15	64QAM	1	37	19.02	18.93	18.91	19.2
15	64QAM	1	74	19.03	18.97	18.98	
15	64QAM	36	0	18.99	18.82	18.98	
15	64QAM	36	20	18.97	18.80	18.87	19.2
15	64QAM	36	39	18.92	18.84	18.83	
15	64QAM	75	0	18.96	19.00	19.08	
15	256QAM	1	0	18.79	18.78	19.06	19.2
15	256QAM	1	37	18.77	18.79	19.00	
15	256QAM	1	74	18.73	18.90	18.77	
15	256QAM	36	0	18.77	18.81	18.96	19.2
15	256QAM	36	20	18.91	19.07	19.00	



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15	256QAM	36	39	18.89	18.95	18.93	
15	256QAM	75	0	18.89	18.90	18.92	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.05	18.84	19.02	19.2
10	QPSK	1	25	18.86	18.82	18.74	
10	QPSK	1	49	18.86	18.93	19.09	
10	QPSK	25	0	18.96	19.08	18.96	19.2
10	QPSK	25	12	18.90	18.93	18.87	
10	QPSK	25	25	18.84	18.95	18.82	
10	QPSK	50	0	18.88	19.04	18.98	
10	16QAM	1	0	19.09	18.96	18.94	19.2
10	16QAM	1	25	18.90	18.84	19.00	
10	16QAM	1	49	18.95	19.02	18.97	
10	16QAM	25	0	18.98	18.90	18.95	19.2
10	16QAM	25	12	18.82	19.00	18.93	
10	16QAM	25	25	18.78	18.90	18.86	
10	16QAM	50	0	18.93	18.84	18.96	
10	64QAM	1	0	18.97	18.99	18.95	19.2
10	64QAM	1	25	18.88	18.82	19.09	
10	64QAM	1	49	19.05	18.92	18.91	
10	64QAM	25	0	18.93	18.90	19.05	19.2
10	64QAM	25	12	18.97	18.92	18.86	
10	64QAM	25	25	18.88	18.93	19.02	
10	64QAM	50	0	18.85	18.90	18.96	
10	256QAM	1	0	18.65	18.87	18.99	19.2
10	256QAM	1	25	18.86	18.75	18.94	
10	256QAM	1	49	18.86	18.91	18.73	
10	256QAM	25	0	18.92	18.88	19.04	19.2
10	256QAM	25	12	18.82	18.89	18.97	
10	256QAM	25	25	18.91	18.87	18.78	
10	256QAM	50	0	18.69	18.90	18.99	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.87	18.95	19.13	19.2
5	QPSK	1	12	18.98	18.95	18.93	
5	QPSK	1	24	18.92	18.97	18.95	
5	QPSK	12	0	19.11	19.00	18.99	19.2
5	QPSK	12	7	18.89	18.92	18.87	
5	QPSK	12	13	18.84	18.81	18.91	
5	QPSK	25	0	18.79	19.05	19.00	
5	16QAM	1	0	19.02	19.04	18.93	19.2
5	16QAM	1	12	18.95	18.96	19.01	
5	16QAM	1	24	19.01	19.00	18.90	
5	16QAM	12	0	18.89	18.87	19.02	19.2
5	16QAM	12	7	18.96	18.83	18.82	
5	16QAM	12	13	18.80	18.90	18.82	
5	16QAM	25	0	18.88	18.84	18.88	
5	64QAM	1	0	18.97	18.89	18.92	19.2
5	64QAM	1	12	18.91	18.98	18.93	
5	64QAM	1	24	18.99	19.04	18.90	
5	64QAM	12	0	19.06	18.85	18.90	19.2
5	64QAM	12	7	19.01	18.83	18.88	
5	64QAM	12	13	18.96	18.85	19.02	
5	64QAM	25	0	18.95	19.01	19.02	
5	256QAM	1	0	18.78	18.84	18.94	19.2
5	256QAM	1	12	18.88	18.82	18.84	
5	256QAM	1	24	18.78	18.80	18.77	
5	256QAM	12	0	18.92	18.76	18.99	19.2
5	256QAM	12	7	18.83	19.01	18.95	
5	256QAM	12	13	18.84	18.93	18.90	
5	256QAM	25	0	18.85	18.86	18.91	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	19.07	19.04	19.02	19.2
3	QPSK	1	8	19.00	18.98	18.76	
3	QPSK	1	14	18.89	18.86	19.08	
3	QPSK	8	0	18.94	19.05	19.00	19.2
3	QPSK	8	4	18.84	18.87	19.04	
3	QPSK	8	7	18.98	18.96	18.87	
3	QPSK	15	0	18.94	18.96	18.93	
3	16QAM	1	0	18.92	19.05	18.98	19.2
3	16QAM	1	8	19.01	19.02	18.87	
3	16QAM	1	14	18.83	18.95	18.96	
3	16QAM	8	0	18.79	18.85	19.04	19.2
3	16QAM	8	4	18.84	18.96	18.85	
3	16QAM	8	7	18.78	18.88	18.85	
3	16QAM	15	0	18.94	18.81	18.84	
3	64QAM	1	0	18.94	18.95	19.05	19.2
3	64QAM	1	8	19.01	18.96	18.95	
3	64QAM	1	14	18.94	18.99	18.99	
3	64QAM	8	0	19.00	18.82	18.89	19.2
3	64QAM	8	4	19.04	18.92	19.05	
3	64QAM	8	7	18.98	18.91	18.85	
3	64QAM	15	0	18.93	18.98	18.92	
3	256QAM	1	0	18.79	18.93	18.95	19.2
3	256QAM	1	8	18.86	18.88	18.98	
3	256QAM	1	14	18.75	18.88	18.87	
3	256QAM	8	0	18.82	18.73	19.06	19.2
3	256QAM	8	4	18.93	18.90	19.05	
3	256QAM	8	7	18.85	18.86	18.82	
3	256QAM	15	0	18.86	18.86	18.86	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.88	18.90	19.13	19.2
1.4	QPSK	1	3	19.02	18.88	18.93	
1.4	QPSK	1	5	18.95	18.97	18.92	
1.4	QPSK	3	0	18.99	18.96	19.01	
1.4	QPSK	3	1	18.90	18.81	18.98	
1.4	QPSK	3	3	19.02	18.90	18.85	
1.4	QPSK	6	0	18.80	19.01	19.03	
1.4	16QAM	1	0	19.07	19.00	19.03	19.2
1.4	16QAM	1	3	18.95	19.04	18.92	
1.4	16QAM	1	5	18.87	19.02	18.92	
1.4	16QAM	3	0	18.82	18.93	19.07	
1.4	16QAM	3	1	18.97	18.94	19.00	
1.4	16QAM	3	3	18.84	18.79	18.82	19.2
1.4	16QAM	6	0	18.90	18.90	18.95	
1.4	64QAM	1	0	19.06	18.96	18.95	19.2
1.4	64QAM	1	3	19.06	18.91	18.96	
1.4	64QAM	1	5	19.00	19.08	18.93	
1.4	64QAM	3	0	18.91	18.84	18.92	
1.4	64QAM	3	1	18.93	18.90	18.90	
1.4	64QAM	3	3	18.97	18.92	18.82	19.2
1.4	64QAM	6	0	19.02	19.01	18.98	
1.4	256QAM	1	0	18.85	18.94	18.93	19.2
1.4	256QAM	1	3	18.88	18.73	19.03	
1.4	256QAM	1	5	18.87	18.92	18.84	
1.4	256QAM	3	0	18.80	18.87	18.97	
1.4	256QAM	3	1	18.77	19.06	18.97	
1.4	256QAM	3	3	18.93	19.01	18.93	19.2
1.4	256QAM	6	0	18.78	18.76	19.01	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.21	22.33	22.32	22.8
20	QPSK	1	49	22.08	22.24	22.30	
20	QPSK	1	99	22.15	22.20	22.24	
20	QPSK	50	0	22.26	22.27	22.25	22.8
20	QPSK	50	24	22.25	22.24	22.25	
20	QPSK	50	50	22.19	22.32	22.24	
20	QPSK	100	0	22.28	22.31	22.30	22.8
20	16QAM	1	0	22.10	22.21	22.27	
20	16QAM	1	49	22.13	22.14	22.30	
20	16QAM	1	99	22.13	22.12	22.28	22.8
20	16QAM	50	0	21.72	21.73	21.83	
20	16QAM	50	24	21.77	21.86	21.82	
20	16QAM	50	50	21.71	21.82	21.83	22.8
20	16QAM	100	0	21.70	21.79	21.79	
20	64QAM	1	0	21.95	22.09	21.98	
20	64QAM	1	49	21.83	21.89	21.96	22.8
20	64QAM	1	99	21.87	22.02	21.92	
20	64QAM	50	0	20.83	20.78	20.84	
20	64QAM	50	24	20.84	20.85	20.82	22
20	64QAM	50	50	20.81	20.81	20.90	
20	64QAM	100	0	20.91	20.90	20.83	
20	256QAM	1	0	18.70	18.76	18.73	20
20	256QAM	1	49	18.59	18.87	18.64	
20	256QAM	1	99	18.75	18.58	18.53	
20	256QAM	50	0	18.90	18.75	18.64	20
20	256QAM	50	24	18.64	18.74	18.82	
20	256QAM	50	50	18.56	18.78	18.81	
20	256QAM	100	0	18.64	18.71	18.71	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.06	22.21	22.14	22.8
15	QPSK	1	37	22.02	22.05	22.21	
15	QPSK	1	74	21.95	22.09	22.05	
15	QPSK	36	0	22.21	22.21	22.08	22.8
15	QPSK	36	20	22.17	22.12	22.23	
15	QPSK	36	39	22.00	22.18	22.14	
15	QPSK	75	0	22.09	22.31	22.22	22.8
15	16QAM	1	0	22.10	22.20	22.09	
15	16QAM	1	37	21.93	21.98	22.21	
15	16QAM	1	74	22.10	21.92	22.28	22.8
15	16QAM	36	0	21.55	21.59	21.77	
15	16QAM	36	20	21.71	21.71	21.70	
15	16QAM	36	39	21.56	21.71	21.76	22.8
15	16QAM	75	0	21.59	21.76	21.75	
15	64QAM	1	0	21.76	22.07	21.82	
15	64QAM	1	37	21.79	21.69	21.82	22.8
15	64QAM	1	74	21.82	22.02	21.87	
15	64QAM	36	0	20.81	20.63	20.72	
15	64QAM	36	20	20.75	20.79	20.71	22
15	64QAM	36	39	20.78	20.78	20.71	
15	64QAM	75	0	20.87	20.83	20.72	
15	256QAM	1	0	18.65	18.64	18.57	20
15	256QAM	1	37	18.39	18.86	18.54	
15	256QAM	1	74	18.56	18.44	18.43	
15	256QAM	36	0	18.86	18.60	18.58	20
15	256QAM	36	20	18.59	18.67	18.82	



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15	256QAM	36	39	18.38	18.67	18.67	Tune-up limit (dBm)
15	256QAM	75	0	18.62	18.56	18.53	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.12	22.30	22.31	22.8
10	QPSK	1	25	22.03	22.04	22.10	
10	QPSK	1	49	22.08	22.08	22.23	
10	QPSK	25	0	22.13	22.13	22.13	22.8
10	QPSK	25	12	22.10	22.13	22.21	
10	QPSK	25	25	22.08	22.21	22.19	
10	QPSK	50	0	22.15	22.11	22.12	
10	16QAM	1	0	21.93	22.06	22.10	22.8
10	16QAM	1	25	21.93	22.07	22.24	
10	16QAM	1	49	22.05	22.01	22.09	
10	16QAM	25	0	21.61	21.67	21.79	22.8
10	16QAM	25	12	21.74	21.78	21.71	
10	16QAM	25	25	21.68	21.82	21.70	
10	16QAM	50	0	21.61	21.78	21.68	
10	64QAM	1	0	21.90	21.99	21.91	22.8
10	64QAM	1	25	21.83	21.87	21.77	
10	64QAM	1	49	21.84	21.93	21.76	
10	64QAM	25	0	20.63	20.58	20.70	22
10	64QAM	25	12	20.78	20.82	20.80	
10	64QAM	25	25	20.61	20.61	20.90	
10	64QAM	50	0	20.89	20.80	20.64	
10	256QAM	1	0	18.58	18.60	18.67	20
10	256QAM	1	25	18.56	18.71	18.45	
10	256QAM	1	49	18.61	18.46	18.37	
10	256QAM	25	0	18.75	18.67	18.60	20
10	256QAM	25	12	18.62	18.70	18.77	
10	256QAM	25	25	18.50	18.63	18.74	
10	256QAM	50	0	18.45	18.55	18.51	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.13	22.29	22.26	22.8
5	QPSK	1	12	21.96	22.05	22.22	
5	QPSK	1	24	21.96	22.04	22.04	
5	QPSK	12	0	22.20	22.24	22.07	22.8
5	QPSK	12	7	22.12	22.06	22.22	
5	QPSK	12	13	22.11	22.32	22.18	
5	QPSK	25	0	22.19	22.18	22.26	
5	16QAM	1	0	22.04	22.03	22.16	22.8
5	16QAM	1	12	22.07	22.08	22.25	
5	16QAM	1	24	21.99	22.01	22.23	
5	16QAM	12	0	21.52	21.58	21.83	22.8
5	16QAM	12	7	21.66	21.67	21.76	
5	16QAM	12	13	21.64	21.79	21.63	
5	16QAM	25	0	21.60	21.60	21.73	
5	64QAM	1	0	21.84	22.06	21.98	22.8
5	64QAM	1	12	21.80	21.89	21.89	
5	64QAM	1	24	21.86	21.87	21.72	
5	64QAM	12	0	20.76	20.65	20.64	22
5	64QAM	12	7	20.77	20.83	20.68	
5	64QAM	12	13	20.81	20.66	20.77	
5	64QAM	25	0	20.79	20.87	20.66	
5	256QAM	1	0	18.55	18.61	18.68	20
5	256QAM	1	12	18.55	18.86	18.54	
5	256QAM	1	24	18.72	18.55	18.45	
5	256QAM	12	0	18.72	18.75	18.47	20
5	256QAM	12	7	18.48	18.74	18.75	
5	256QAM	12	13	18.46	18.59	18.70	
5	256QAM	25	0	18.57	18.63	18.66	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	22.11	22.14	22.14	22.8
3	QPSK	1	8	22.02	22.13	22.15	
3	QPSK	1	14	22.01	22.07	22.08	
3	QPSK	8	0	22.20	22.12	22.09	22.8
3	QPSK	8	4	22.17	22.23	22.15	
3	QPSK	8	7	21.99	22.28	22.14	
3	QPSK	15	0	22.27	22.31	22.21	
3	16QAM	1	0	22.00	22.15	22.23	22.8
3	16QAM	1	8	22.12	22.02	22.18	
3	16QAM	1	14	22.06	22.06	22.18	
3	16QAM	8	0	21.72	21.66	21.66	22.8
3	16QAM	8	4	21.69	21.73	21.78	
3	16QAM	8	7	21.52	21.64	21.77	
3	16QAM	15	0	21.70	21.61	21.62	
3	64QAM	1	0	21.87	21.90	21.78	22.8
3	64QAM	1	8	21.80	21.73	21.82	
3	64QAM	1	14	21.86	22.02	21.81	
3	64QAM	8	0	20.72	20.75	20.67	22
3	64QAM	8	4	20.67	20.72	20.75	
3	64QAM	8	7	20.74	20.61	20.81	
3	64QAM	15	0	20.81	20.82	20.71	
3	256QAM	1	0	18.52	18.75	18.65	20
3	256QAM	1	8	18.58	18.83	18.61	
3	256QAM	1	14	18.60	18.55	18.50	
3	256QAM	8	0	18.88	18.73	18.58	20
3	256QAM	8	4	18.55	18.58	18.72	
3	256QAM	8	7	18.48	18.72	18.61	
3	256QAM	15	0	18.54	18.55	18.65	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.11	22.25	22.31	22.8
1.4	QPSK	1	3	22.03	22.07	22.16	
1.4	QPSK	1	5	22.01	22.09	22.22	
1.4	QPSK	3	0	22.19	22.21	22.23	
1.4	QPSK	3	1	21.90	22.10	22.16	
1.4	QPSK	3	3	21.95	22.01	22.07	
1.4	QPSK	6	0	22.19	22.13	22.12	
1.4	16QAM	1	0	22.05	22.18	22.15	22.8
1.4	16QAM	1	3	22.17	22.22	22.16	
1.4	16QAM	1	5	22.27	22.16	22.21	
1.4	16QAM	3	0	22.01	22.13	22.25	
1.4	16QAM	3	1	21.98	22.13	22.28	
1.4	16QAM	3	3	22.08	22.12	22.19	
1.4	16QAM	6	0	21.54	21.61	21.77	22.8
1.4	64QAM	1	0	21.67	21.69	21.65	22.8
1.4	64QAM	1	3	21.63	21.73	21.73	
1.4	64QAM	1	5	21.56	21.72	21.63	
1.4	64QAM	3	0	21.79	21.93	21.78	
1.4	64QAM	3	1	21.72	21.89	21.92	
1.4	64QAM	3	3	21.73	21.97	21.79	
1.4	64QAM	6	0	20.65	20.66	20.84	22
1.4	256QAM	1	0	18.55	18.73	18.55	20
1.4	256QAM	1	3	18.59	18.82	18.64	
1.4	256QAM	1	5	18.71	18.49	18.34	
1.4	256QAM	3	0	18.78	18.69	18.50	
1.4	256QAM	3	1	18.48	18.60	18.76	
1.4	256QAM	3	3	18.50	18.76	18.71	
1.4	256QAM	6	0	18.44	18.55	18.51	20



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.99	19.00	18.92	
20	QPSK	1	49	18.91	18.79	18.75	19.9
20	QPSK	1	99	18.85	18.96	18.89	
20	QPSK	50	0	18.96	18.96	18.94	
20	QPSK	50	24	18.95	18.93	18.88	19.9
20	QPSK	50	50	18.90	18.90	18.86	
20	QPSK	100	0	18.98	18.99	18.93	
20	16QAM	1	0	18.91	18.90	18.84	19.9
20	16QAM	1	49	18.91	18.92	18.82	
20	16QAM	1	99	18.90	18.95	18.88	
20	16QAM	50	0	18.96	18.95	18.92	19.9
20	16QAM	50	24	18.90	18.95	18.86	
20	16QAM	50	50	18.91	18.94	18.86	
20	16QAM	100	0	18.98	18.96	18.88	19.9
20	64QAM	1	0	18.92	18.93	18.74	
20	64QAM	1	49	18.96	18.86	18.85	
20	64QAM	1	99	18.75	18.84	18.74	19.9
20	64QAM	50	0	18.93	18.93	18.97	
20	64QAM	50	24	18.90	18.94	18.94	
20	64QAM	50	50	18.95	18.97	18.91	19.9
20	64QAM	100	0	18.99	18.96	18.93	
20	256QAM	1	0	18.56	18.72	18.43	
20	256QAM	1	49	18.14	18.27	18.05	19.9
20	256QAM	1	99	18.30	18.45	18.16	
20	256QAM	50	0	18.48	18.50	18.29	
20	256QAM	50	24	18.42	18.31	18.29	19.9
20	256QAM	50	50	18.26	18.34	18.06	
20	256QAM	100	0	18.28	18.36	18.32	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.92	18.83	18.76	
15	QPSK	1	37	18.74	18.68	18.74	19.9
15	QPSK	1	74	18.72	18.91	18.83	
15	QPSK	36	0	18.88	18.92	18.80	
15	QPSK	36	20	18.78	18.92	18.73	19.9
15	QPSK	36	39	18.82	18.72	18.77	
15	QPSK	75	0	18.93	18.91	18.91	
15	16QAM	1	0	18.83	18.87	18.80	19.9
15	16QAM	1	37	18.83	18.76	18.65	
15	16QAM	1	74	18.89	18.84	18.84	
15	16QAM	36	0	18.82	18.80	18.78	19.9
15	16QAM	36	20	18.81	18.88	18.68	
15	16QAM	36	39	18.78	18.74	18.74	
15	16QAM	75	0	18.85	18.92	18.76	19.9
15	64QAM	1	0	18.82	18.87	18.74	
15	64QAM	1	37	18.96	18.67	18.77	
15	64QAM	1	74	18.58	18.66	18.55	19.9
15	64QAM	36	0	18.77	18.74	18.90	
15	64QAM	36	20	18.71	18.79	18.86	
15	64QAM	36	39	18.84	18.89	18.76	19.9
15	64QAM	75	0	18.89	18.83	18.92	
15	256QAM	1	0	18.36	18.59	18.37	
15	256QAM	1	37	17.99	18.12	18.02	19.9
15	256QAM	1	74	18.11	18.39	18.15	
15	256QAM	36	0	18.47	18.50	18.22	
15	256QAM	36	20	18.42	18.22	18.29	19.9



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15	256QAM	36	39	18.20	18.30	17.95	
15	256QAM	75	0	18.23	18.17	18.29	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.80	18.80	18.91	19.9
10	QPSK	1	25	18.72	18.78	18.73	
10	QPSK	1	49	18.72	18.90	18.78	
10	QPSK	25	0	18.76	18.81	18.94	19.9
10	QPSK	25	12	18.91	18.92	18.88	
10	QPSK	25	25	18.84	18.83	18.75	
10	QPSK	50	0	18.93	18.81	18.80	
10	16QAM	1	0	18.77	18.71	18.72	19.9
10	16QAM	1	25	18.87	18.90	18.73	
10	16QAM	1	49	18.81	18.82	18.83	
10	16QAM	25	0	18.81	18.92	18.89	19.9
10	16QAM	25	12	18.87	18.76	18.72	
10	16QAM	25	25	18.74	18.94	18.83	
10	16QAM	50	0	18.93	18.92	18.72	
10	64QAM	1	0	18.83	18.77	18.68	19.9
10	64QAM	1	25	18.87	18.81	18.81	
10	64QAM	1	49	18.75	18.79	18.71	
10	64QAM	25	0	18.75	18.90	18.83	19.9
10	64QAM	25	12	18.75	18.89	18.94	
10	64QAM	25	25	18.88	18.84	18.77	
10	64QAM	50	0	18.86	18.76	18.74	
10	256QAM	1	0	18.55	18.62	18.32	19.9
10	256QAM	1	25	18.06	18.18	17.93	
10	256QAM	1	49	18.30	18.32	18.04	
10	256QAM	25	0	18.40	18.37	18.20	19.9
10	256QAM	25	12	18.36	18.22	18.13	
10	256QAM	25	25	18.21	18.22	17.88	
10	256QAM	50	0	18.26	18.32	18.17	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.80	18.92	18.88	19.9
5	QPSK	1	12	18.80	18.78	18.68	
5	QPSK	1	24	18.82	18.85	18.86	
5	QPSK	12	0	18.92	18.77	18.77	19.9
5	QPSK	12	7	18.84	18.78	18.73	
5	QPSK	12	13	18.73	18.87	18.70	
5	QPSK	25	0	18.80	18.96	18.85	
5	16QAM	1	0	18.84	18.73	18.83	19.9
5	16QAM	1	12	18.82	18.90	18.74	
5	16QAM	1	24	18.88	18.75	18.88	
5	16QAM	12	0	18.91	18.90	18.73	19.9
5	16QAM	12	7	18.89	18.82	18.69	
5	16QAM	12	13	18.76	18.94	18.82	
5	16QAM	25	0	18.82	18.92	18.74	
5	64QAM	1	0	18.78	18.88	18.66	19.9
5	64QAM	1	12	18.82	18.69	18.69	
5	64QAM	1	24	18.60	18.78	18.56	
5	64QAM	12	0	18.78	18.78	18.81	19.9
5	64QAM	12	7	18.81	18.80	18.92	
5	64QAM	12	13	18.79	18.77	18.79	
5	64QAM	25	0	18.93	18.90	18.90	
5	256QAM	1	0	18.39	18.69	18.25	19.9
5	256QAM	1	12	17.95	18.14	17.97	
5	256QAM	1	24	18.15	18.41	18.07	
5	256QAM	12	0	18.36	18.35	18.22	19.9
5	256QAM	12	7	18.36	18.18	18.13	
5	256QAM	12	13	18.20	18.26	18.02	
5	256QAM	25	0	18.28	18.20	18.25	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	18.83	18.82	18.77	19.9
3	QPSK	1	8	18.81	18.64	18.63	
3	QPSK	1	14	18.74	18.89	18.78	
3	QPSK	8	0	18.88	18.81	18.77	19.9
3	QPSK	8	4	18.86	18.89	18.81	
3	QPSK	8	7	18.83	18.81	18.80	
3	QPSK	15	0	18.87	18.99	18.80	
3	16QAM	1	0	18.86	18.82	18.70	19.9
3	16QAM	1	8	18.86	18.75	18.81	
3	16QAM	1	14	18.86	18.90	18.71	
3	16QAM	8	0	18.81	18.93	18.75	19.9
3	16QAM	8	4	18.81	18.95	18.86	
3	16QAM	8	7	18.85	18.84	18.69	
3	16QAM	15	0	18.82	18.88	18.85	
3	64QAM	1	0	18.86	18.77	18.67	19.9
3	64QAM	1	8	18.84	18.85	18.67	
3	64QAM	1	14	18.75	18.72	18.60	
3	64QAM	8	0	18.92	18.85	18.79	19.9
3	64QAM	8	4	18.90	18.80	18.88	
3	64QAM	8	7	18.93	18.84	18.87	
3	64QAM	15	0	18.90	18.93	18.73	
3	256QAM	1	0	18.42	18.71	18.36	19.9
3	256QAM	1	8	18.14	18.23	18.05	
3	256QAM	1	14	18.11	18.40	18.14	
3	256QAM	8	0	18.44	18.41	18.23	19.9
3	256QAM	8	4	18.38	18.11	18.15	
3	256QAM	8	7	18.19	18.28	17.93	
3	256QAM	15	0	18.21	18.28	18.32	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.91	18.80	18.75	19.9
1.4	QPSK	1	3	18.84	18.74	18.56	
1.4	QPSK	1	5	18.68	18.80	18.85	
1.4	QPSK	3	0	18.82	18.93	18.75	
1.4	QPSK	3	1	18.78	18.87	18.72	
1.4	QPSK	3	3	18.83	18.89	18.80	
1.4	QPSK	6	0	18.92	18.98	18.75	
1.4	16QAM	1	0	18.72	18.73	18.81	19.9
1.4	16QAM	1	3	18.77	18.81	18.63	
1.4	16QAM	1	5	18.82	18.78	18.81	
1.4	16QAM	3	0	18.92	18.94	18.92	
1.4	16QAM	3	1	18.80	18.93	18.71	
1.4	16QAM	3	3	18.83	18.81	18.68	
1.4	16QAM	6	0	18.81	18.83	18.70	19.9
1.4	64QAM	1	0	18.80	18.83	18.69	19.9
1.4	64QAM	1	3	18.79	18.76	18.80	
1.4	64QAM	1	5	18.68	18.78	18.65	
1.4	64QAM	3	0	18.93	18.90	18.82	
1.4	64QAM	3	1	18.72	18.78	18.78	
1.4	64QAM	3	3	18.80	18.84	18.83	
1.4	64QAM	6	0	18.86	18.93	18.78	19.9
1.4	256QAM	1	0	18.52	18.72	18.30	19.9
1.4	256QAM	1	3	17.99	18.19	17.95	
1.4	256QAM	1	5	18.10	18.36	18.01	
1.4	256QAM	3	0	18.42	18.43	18.27	
1.4	256QAM	3	1	18.39	18.21	18.26	
1.4	256QAM	3	3	18.07	18.17	17.95	
1.4	256QAM	6	0	18.14	18.21	18.31	19.9



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.97	23.93	23.90	25
20	QPSK	1	49	23.68	23.67	23.66	
20	QPSK	1	99	23.83	23.85	23.83	
20	QPSK	50	0	23.01	22.96	22.84	24
20	QPSK	50	24	22.97	22.88	22.84	
20	QPSK	50	50	22.88	22.86	22.78	
20	QPSK	100	0	22.92	22.91	22.82	
20	16QAM	1	0	23.18	23.11	23.11	24
20	16QAM	1	49	23.07	23.01	22.99	
20	16QAM	1	99	23.09	23.07	23.04	
20	16QAM	50	0	21.84	21.78	21.78	23
20	16QAM	50	24	21.79	21.87	21.76	
20	16QAM	50	50	21.85	21.86	21.79	
20	16QAM	100	0	21.85	21.85	21.79	
20	64QAM	1	0	22.12	22.08	22.02	23
20	64QAM	1	49	22.08	21.96	21.90	
20	64QAM	1	99	21.99	21.98	21.97	
20	64QAM	50	0	20.99	20.97	20.86	22
20	64QAM	50	24	20.97	20.92	20.86	
20	64QAM	50	50	20.89	20.90	20.85	
20	64QAM	100	0	20.90	20.90	20.85	
20	256QAM	1	0	19.11	19.10	19.06	20
20	256QAM	1	49	18.76	18.82	18.78	
20	256QAM	1	99	18.94	18.95	18.91	
20	256QAM	50	0	18.83	18.88	18.74	20
20	256QAM	50	24	18.97	18.99	18.88	
20	256QAM	50	50	18.87	18.93	18.88	
20	256QAM	100	0	18.87	18.89	18.75	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.90	23.83	23.72	25
15	QPSK	1	37	23.62	23.58	23.58	
15	QPSK	1	74	23.64	23.70	23.67	
15	QPSK	36	0	22.95	22.90	22.64	24
15	QPSK	36	20	22.92	22.76	22.67	
15	QPSK	36	39	22.69	22.79	22.75	
15	QPSK	75	0	22.83	22.73	22.66	
15	16QAM	1	0	23.16	23.05	23.05	24
15	16QAM	1	37	23.02	22.91	22.99	
15	16QAM	1	74	23.07	22.93	22.91	
15	16QAM	36	0	21.64	21.68	21.78	23
15	16QAM	36	20	21.69	21.72	21.66	
15	16QAM	36	39	21.76	21.75	21.71	
15	16QAM	75	0	21.72	21.84	21.61	
15	64QAM	1	0	21.96	21.96	21.89	23
15	64QAM	1	37	21.88	21.86	21.89	
15	64QAM	1	74	21.87	21.92	21.82	
15	64QAM	36	0	20.90	20.93	20.67	22
15	64QAM	36	20	20.78	20.77	20.84	
15	64QAM	36	39	20.81	20.84	20.67	
15	64QAM	75	0	20.81	20.88	20.66	
15	256QAM	1	0	19.06	19.04	18.91	20
15	256QAM	1	37	18.56	18.64	18.59	
15	256QAM	1	74	18.89	18.82	18.74	
15	256QAM	36	0	18.80	18.83	18.59	20
15	256QAM	36	20	18.91	18.82	18.69	



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15	256QAM	36	39	18.76	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.69	18.85	18.57	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.89	23.92	23.83	25
10	QPSK	1	25	23.63	23.48	23.54	
10	QPSK	1	49	23.70	23.76	23.66	
10	QPSK	25	0	22.91	22.96	22.83	24
10	QPSK	25	12	22.86	22.81	22.75	
10	QPSK	25	25	22.70	22.83	22.70	
10	QPSK	50	0	22.91	22.88	22.72	
10	16QAM	1	0	23.13	22.91	23.02	24
10	16QAM	1	25	22.90	22.87	22.88	
10	16QAM	1	49	23.03	22.98	22.93	
10	16QAM	25	0	21.65	21.70	21.60	23
10	16QAM	25	12	21.79	21.86	21.62	
10	16QAM	25	25	21.73	21.66	21.66	
10	16QAM	50	0	21.71	21.67	21.76	
10	64QAM	1	0	22.11	21.92	21.90	23
10	64QAM	1	25	22.07	21.93	21.90	
10	64QAM	1	49	21.96	21.94	21.94	
10	64QAM	25	0	20.82	20.78	20.84	22
10	64QAM	25	12	20.77	20.90	20.77	
10	64QAM	25	25	20.75	20.75	20.82	
10	64QAM	50	0	20.88	20.70	20.69	
10	256QAM	1	0	19.04	19.01	19.02	20
10	256QAM	1	25	18.67	18.71	18.59	
10	256QAM	1	49	18.87	18.82	18.74	
10	256QAM	25	0	18.78	18.73	18.67	20
10	256QAM	25	12	18.88	18.88	18.69	
10	256QAM	25	25	18.82	18.92	18.69	
10	256QAM	50	0	18.77	18.89	18.70	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.96	23.86	23.76	25
5	QPSK	1	12	23.61	23.57	23.62	
5	QPSK	1	24	23.67	23.84	23.68	
5	QPSK	12	0	22.91	22.90	22.72	24
5	QPSK	12	7	22.89	22.71	22.76	
5	QPSK	12	13	22.82	22.76	22.62	
5	QPSK	25	0	22.82	22.78	22.65	
5	16QAM	1	0	23.07	22.96	23.07	24
5	16QAM	1	12	22.97	23.00	22.93	
5	16QAM	1	24	22.91	23.04	22.94	
5	16QAM	12	0	21.77	21.61	21.72	23
5	16QAM	12	7	21.79	21.67	21.75	
5	16QAM	12	13	21.65	21.76	21.65	
5	16QAM	25	0	21.80	21.68	21.65	
5	64QAM	1	0	21.96	21.92	21.94	23
5	64QAM	1	12	22.02	21.78	21.85	
5	64QAM	1	24	21.96	21.95	21.87	
5	64QAM	12	0	20.85	20.79	20.70	22
5	64QAM	12	7	20.92	20.91	20.83	
5	64QAM	12	13	20.84	20.86	20.78	
5	64QAM	25	0	20.81	20.76	20.69	
5	256QAM	1	0	19.06	19.00	18.97	20
5	256QAM	1	12	18.73	18.70	18.74	
5	256QAM	1	24	18.78	18.92	18.84	
5	256QAM	12	0	18.74	18.70	18.54	20
5	256QAM	12	7	18.90	18.85	18.82	
5	256QAM	12	13	18.75	18.86	18.72	
5	256QAM	25	0	18.82	18.74	18.70	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.90	23.78	23.87	25
3	QPSK	1	8	23.53	23.51	23.53	
3	QPSK	1	14	23.72	23.79	23.76	
3	QPSK	8	0	22.91	22.80	22.83	24
3	QPSK	8	4	22.90	22.69	22.77	
3	QPSK	8	7	22.74	22.82	22.73	
3	QPSK	15	0	22.78	22.82	22.69	
3	16QAM	1	0	23.06	23.09	22.96	24
3	16QAM	1	8	22.88	23.00	22.93	
3	16QAM	1	14	22.97	22.96	22.99	
3	16QAM	8	0	21.67	21.77	21.66	23
3	16QAM	8	4	21.70	21.77	21.59	
3	16QAM	8	7	21.83	21.82	21.78	
3	16QAM	15	0	21.75	21.72	21.65	
3	64QAM	1	0	22.04	22.05	21.85	23
3	64QAM	1	8	22.05	21.77	21.76	
3	64QAM	1	14	21.82	21.80	21.89	
3	64QAM	8	0	20.97	20.88	20.79	22
3	64QAM	8	4	20.79	20.87	20.81	
3	64QAM	8	7	20.75	20.74	20.85	
3	64QAM	15	0	20.71	20.76	20.70	
3	256QAM	1	0	19.05	18.90	18.98	20
3	256QAM	1	8	18.66	18.66	18.66	
3	256QAM	1	14	18.93	18.83	18.86	
3	256QAM	8	0	18.81	18.83	18.69	20
3	256QAM	8	4	18.93	18.91	18.84	
3	256QAM	8	7	18.81	18.85	18.76	
3	256QAM	15	0	18.78	18.75	18.60	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.79	23.87	23.84	25
1.4	QPSK	1	3	23.52	23.63	23.58	
1.4	QPSK	1	5	23.81	23.81	23.77	
1.4	QPSK	3	0	23.87	23.92	23.77	
1.4	QPSK	3	1	23.67	23.55	23.61	
1.4	QPSK	3	3	23.79	23.76	23.63	
1.4	QPSK	6	0	22.97	22.85	22.72	24
1.4	16QAM	1	0	22.96	22.75	22.64	24
1.4	16QAM	1	3	22.81	22.77	22.75	
1.4	16QAM	1	5	22.84	22.78	22.82	
1.4	16QAM	3	0	23.00	22.97	22.94	
1.4	16QAM	3	1	22.90	22.95	22.87	
1.4	16QAM	3	3	23.07	22.92	22.94	23
1.4	16QAM	6	0	21.66	21.65	21.72	
1.4	64QAM	1	0	21.60	21.81	21.71	
1.4	64QAM	1	3	21.67	21.66	21.66	
1.4	64QAM	1	5	21.78	21.81	21.60	23
1.4	64QAM	3	0	22.00	21.88	21.86	
1.4	64QAM	3	1	21.95	21.77	21.73	
1.4	64QAM	3	3	21.95	21.87	21.79	
1.4	64QAM	6	0	20.86	20.82	20.74	22
1.4	256QAM	1	0	18.94	18.96	18.98	20
1.4	256QAM	1	3	18.64	18.68	18.76	
1.4	256QAM	1	5	18.92	18.88	18.83	
1.4	256QAM	3	0	18.71	18.84	18.72	
1.4	256QAM	3	1	18.85	18.80	18.74	
1.4	256QAM	3	3	18.82	18.76	18.87	20
1.4	256QAM	6	0	18.77	18.87	18.58	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.07	19.04	19.13	
20	QPSK	1	49	19.03	18.98	18.94	19.9
20	QPSK	1	99	18.98	18.97	19.11	
20	QPSK	50	0	19.11	19.08	19.12	
20	QPSK	50	24	19.04	19.00	19.04	19.9
20	QPSK	50	50	19.03	19.00	19.01	
20	QPSK	100	0	18.99	19.07	19.10	
20	16QAM	1	0	19.10	19.07	19.05	19.9
20	16QAM	1	49	19.06	19.04	19.07	
20	16QAM	1	99	19.02	19.09	19.05	
20	16QAM	50	0	18.99	18.99	19.11	19.9
20	16QAM	50	24	18.97	19.02	19.01	
20	16QAM	50	50	18.95	18.97	19.02	
20	16QAM	100	0	18.98	19.00	19.02	19.9
20	64QAM	1	0	19.12	19.02	19.09	
20	64QAM	1	49	19.07	19.01	19.10	
20	64QAM	1	99	19.08	19.08	19.10	19.9
20	64QAM	50	0	19.09	18.98	19.05	
20	64QAM	50	24	19.08	18.98	19.06	
20	64QAM	50	50	19.01	18.95	19.02	19.9
20	64QAM	100	0	19.04	19.08	19.12	
20	256QAM	1	0	18.85	18.97	19.12	
20	256QAM	1	49	18.93	18.89	19.03	19.9
20	256QAM	1	99	18.93	18.93	18.93	
20	256QAM	50	0	18.97	18.92	19.10	
20	256QAM	50	24	18.94	19.08	19.09	19.9
20	256QAM	50	50	18.96	19.01	18.97	
20	256QAM	100	0	18.89	18.93	19.06	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.07	18.92	18.93	
15	QPSK	1	37	19.02	18.81	18.78	19.9
15	QPSK	1	74	18.95	18.86	18.97	
15	QPSK	36	0	18.93	18.89	18.94	19.9
15	QPSK	36	20	19.04	18.96	18.94	
15	QPSK	36	39	18.84	18.82	18.84	
15	QPSK	75	0	18.85	18.95	18.90	19.9
15	16QAM	1	0	19.10	19.00	18.95	
15	16QAM	1	37	18.89	18.89	18.96	
15	16QAM	1	74	18.98	18.90	18.98	19.9
15	16QAM	36	0	18.93	18.83	18.98	
15	16QAM	36	20	18.78	18.93	18.82	
15	16QAM	36	39	18.77	18.79	19.00	19.9
15	16QAM	75	0	18.97	18.89	19.02	
15	64QAM	1	0	19.07	18.94	18.90	
15	64QAM	1	37	19.02	18.93	18.91	19.9
15	64QAM	1	74	19.03	18.97	18.98	
15	64QAM	36	0	18.99	18.82	18.98	
15	64QAM	36	20	18.97	18.80	18.87	19.9
15	64QAM	36	39	18.92	18.84	18.83	
15	64QAM	75	0	18.96	19.00	19.08	
15	256QAM	1	0	18.79	18.78	19.06	19.9
15	256QAM	1	37	18.77	18.79	19.00	
15	256QAM	1	74	18.73	18.90	18.77	
15	256QAM	36	0	18.77	18.81	18.96	19.9
15	256QAM	36	20	18.91	19.07	19.00	



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15	256QAM	36	39	18.89	18.95	18.93	
15	256QAM	75	0	18.89	18.90	18.92	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.05	18.84	19.02	19.9
10	QPSK	1	25	18.86	18.82	18.74	
10	QPSK	1	49	18.86	18.93	19.09	
10	QPSK	25	0	18.96	19.08	18.96	19.9
10	QPSK	25	12	18.90	18.93	18.87	
10	QPSK	25	25	18.84	18.95	18.82	
10	QPSK	50	0	18.88	19.04	18.98	
10	16QAM	1	0	19.09	18.96	18.94	19.9
10	16QAM	1	25	18.90	18.84	19.00	
10	16QAM	1	49	18.95	19.02	18.97	
10	16QAM	25	0	18.98	18.90	18.95	19.9
10	16QAM	25	12	18.82	19.00	18.93	
10	16QAM	25	25	18.78	18.90	18.86	
10	16QAM	50	0	18.93	18.84	18.96	
10	64QAM	1	0	18.97	18.99	18.95	19.9
10	64QAM	1	25	18.88	18.82	19.09	
10	64QAM	1	49	19.05	18.92	18.91	
10	64QAM	25	0	18.93	18.90	19.05	19.9
10	64QAM	25	12	18.97	18.92	18.86	
10	64QAM	25	25	18.88	18.93	19.02	
10	64QAM	50	0	18.85	18.90	18.96	
10	256QAM	1	0	18.65	18.87	18.99	19.9
10	256QAM	1	25	18.86	18.75	18.94	
10	256QAM	1	49	18.86	18.91	18.73	
10	256QAM	25	0	18.92	18.88	19.04	19.9
10	256QAM	25	12	18.82	18.89	18.97	
10	256QAM	25	25	18.91	18.87	18.78	
10	256QAM	50	0	18.69	18.90	18.99	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.87	18.95	19.13	19.9
5	QPSK	1	12	18.98	18.95	18.93	
5	QPSK	1	24	18.92	18.97	18.95	
5	QPSK	12	0	19.11	19.00	18.99	19.9
5	QPSK	12	7	18.89	18.92	18.87	
5	QPSK	12	13	18.84	18.81	18.91	
5	QPSK	25	0	18.79	19.05	19.00	
5	16QAM	1	0	19.02	19.04	18.93	19.9
5	16QAM	1	12	18.95	18.96	19.01	
5	16QAM	1	24	19.01	19.00	18.90	
5	16QAM	12	0	18.89	18.87	19.02	19.9
5	16QAM	12	7	18.96	18.83	18.82	
5	16QAM	12	13	18.80	18.90	18.82	
5	16QAM	25	0	18.88	18.84	18.88	
5	64QAM	1	0	18.97	18.89	18.92	19.9
5	64QAM	1	12	18.91	18.98	18.93	
5	64QAM	1	24	18.99	19.04	18.90	
5	64QAM	12	0	19.06	18.85	18.90	19.9
5	64QAM	12	7	19.01	18.83	18.88	
5	64QAM	12	13	18.96	18.85	19.02	
5	64QAM	25	0	18.95	19.01	19.02	
5	256QAM	1	0	18.78	18.84	18.94	19.9
5	256QAM	1	12	18.88	18.82	18.84	
5	256QAM	1	24	18.78	18.80	18.77	
5	256QAM	12	0	18.92	18.76	18.99	19.9
5	256QAM	12	7	18.83	19.01	18.95	
5	256QAM	12	13	18.84	18.93	18.90	
5	256QAM	25	0	18.85	18.86	18.91	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	19.07	19.04	19.02	19.9
3	QPSK	1	8	19.00	18.98	18.76	
3	QPSK	1	14	18.89	18.86	19.08	
3	QPSK	8	0	18.94	19.05	19.00	19.9
3	QPSK	8	4	18.84	18.87	19.04	
3	QPSK	8	7	18.98	18.96	18.87	
3	QPSK	15	0	18.94	18.96	18.93	
3	16QAM	1	0	18.92	19.05	18.98	19.9
3	16QAM	1	8	19.01	19.02	18.87	
3	16QAM	1	14	18.83	18.95	18.96	
3	16QAM	8	0	18.79	18.85	19.04	19.9
3	16QAM	8	4	18.84	18.96	18.85	
3	16QAM	8	7	18.78	18.88	18.85	
3	16QAM	15	0	18.94	18.81	18.84	
3	64QAM	1	0	18.94	18.95	19.05	19.9
3	64QAM	1	8	19.01	18.96	18.95	
3	64QAM	1	14	18.94	18.99	18.99	
3	64QAM	8	0	19.00	18.82	18.89	19.9
3	64QAM	8	4	19.04	18.92	19.05	
3	64QAM	8	7	18.98	18.91	18.85	
3	64QAM	15	0	18.93	18.98	18.92	
3	256QAM	1	0	18.79	18.93	18.95	19.9
3	256QAM	1	8	18.86	18.88	18.98	
3	256QAM	1	14	18.75	18.88	18.87	
3	256QAM	8	0	18.82	18.73	19.06	19.9
3	256QAM	8	4	18.93	18.90	19.05	
3	256QAM	8	7	18.85	18.86	18.82	
3	256QAM	15	0	18.86	18.86	18.86	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.88	18.90	19.13	19.9
1.4	QPSK	1	3	19.02	18.88	18.93	
1.4	QPSK	1	5	18.95	18.97	18.92	
1.4	QPSK	3	0	18.99	18.96	19.01	
1.4	QPSK	3	1	18.90	18.81	18.98	
1.4	QPSK	3	3	19.02	18.90	18.85	
1.4	QPSK	6	0	18.80	19.01	19.03	
1.4	16QAM	1	0	19.07	19.00	19.03	19.9
1.4	16QAM	1	3	18.95	19.04	18.92	
1.4	16QAM	1	5	18.87	19.02	18.92	
1.4	16QAM	3	0	18.82	18.93	19.07	
1.4	16QAM	3	1	18.97	18.94	19.00	
1.4	16QAM	3	3	18.84	18.79	18.82	19.9
1.4	16QAM	6	0	18.90	18.90	18.95	
1.4	64QAM	1	0	19.06	18.96	18.95	19.9
1.4	64QAM	1	3	19.06	18.91	18.96	
1.4	64QAM	1	5	19.00	19.08	18.93	
1.4	64QAM	3	0	18.91	18.84	18.92	
1.4	64QAM	3	1	18.93	18.90	18.90	
1.4	64QAM	3	3	18.97	18.92	18.82	
1.4	64QAM	6	0	19.02	19.01	18.98	19.9
1.4	256QAM	1	0	18.85	18.94	18.93	19.9
1.4	256QAM	1	3	18.88	18.73	19.03	
1.4	256QAM	1	5	18.87	18.92	18.84	
1.4	256QAM	3	0	18.80	18.87	18.97	
1.4	256QAM	3	1	18.77	19.06	18.97	
1.4	256QAM	3	3	18.93	19.01	18.93	19.9
1.4	256QAM	6	0	18.78	18.76	19.01	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.21	22.33	22.32	23.5
20	QPSK	1	49	22.08	22.24	22.30	
20	QPSK	1	99	22.15	22.20	22.24	
20	QPSK	50	0	22.26	22.27	22.25	23.5
20	QPSK	50	24	22.25	22.24	22.25	
20	QPSK	50	50	22.19	22.32	22.24	
20	QPSK	100	0	22.28	22.31	22.30	23.5
20	16QAM	1	0	22.10	22.21	22.27	
20	16QAM	1	49	22.13	22.14	22.30	
20	16QAM	1	99	22.13	22.12	22.28	23
20	16QAM	50	0	21.72	21.73	21.83	
20	16QAM	50	24	21.77	21.86	21.82	
20	16QAM	50	50	21.71	21.82	21.83	23
20	16QAM	100	0	21.70	21.79	21.79	
20	64QAM	1	0	21.95	22.09	21.98	
20	64QAM	1	49	21.83	21.89	21.96	22
20	64QAM	1	99	21.87	22.02	21.92	
20	64QAM	50	0	20.83	20.78	20.84	
20	64QAM	50	24	20.84	20.85	20.82	20
20	64QAM	50	50	20.81	20.81	20.90	
20	64QAM	100	0	20.91	20.90	20.83	
20	256QAM	1	0	18.70	18.76	18.73	20
20	256QAM	1	49	18.59	18.87	18.64	
20	256QAM	1	99	18.75	18.58	18.53	
20	256QAM	50	0	18.90	18.75	18.64	20
20	256QAM	50	24	18.64	18.74	18.82	
20	256QAM	50	50	18.56	18.78	18.81	
20	256QAM	100	0	18.64	18.71	18.71	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.06	22.21	22.14	23.5
15	QPSK	1	37	22.02	22.05	22.21	
15	QPSK	1	74	21.95	22.09	22.05	
15	QPSK	36	0	22.21	22.21	22.08	23.5
15	QPSK	36	20	22.17	22.12	22.23	
15	QPSK	36	39	22.00	22.18	22.14	
15	QPSK	75	0	22.09	22.31	22.22	23.5
15	16QAM	1	0	22.10	22.20	22.09	
15	16QAM	1	37	21.93	21.98	22.21	
15	16QAM	1	74	22.10	21.92	22.28	23
15	16QAM	36	0	21.55	21.59	21.77	
15	16QAM	36	20	21.71	21.71	21.70	
15	16QAM	36	39	21.56	21.71	21.76	23
15	16QAM	75	0	21.59	21.76	21.75	
15	64QAM	1	0	21.76	22.07	21.82	
15	64QAM	1	37	21.79	21.69	21.82	22
15	64QAM	1	74	21.82	22.02	21.87	
15	64QAM	36	0	20.81	20.63	20.72	
15	64QAM	36	20	20.75	20.79	20.71	20
15	64QAM	36	39	20.78	20.78	20.71	
15	64QAM	75	0	20.87	20.83	20.72	
15	256QAM	1	0	18.65	18.64	18.57	20
15	256QAM	1	37	18.39	18.86	18.54	
15	256QAM	1	74	18.56	18.44	18.43	
15	256QAM	36	0	18.86	18.60	18.58	20
15	256QAM	36	20	18.59	18.67	18.82	



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15	256QAM	36	39	18.38	18.67	18.67	Tune-up limit (dBm)
15	256QAM	75	0	18.62	18.56	18.53	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.12	22.30	22.31	23.5
10	QPSK	1	25	22.03	22.04	22.10	
10	QPSK	1	49	22.08	22.08	22.23	
10	QPSK	25	0	22.13	22.13	22.13	23.5
10	QPSK	25	12	22.10	22.13	22.21	
10	QPSK	25	25	22.08	22.21	22.19	
10	QPSK	50	0	22.15	22.11	22.12	
10	16QAM	1	0	21.93	22.06	22.10	23.5
10	16QAM	1	25	21.93	22.07	22.24	
10	16QAM	1	49	22.05	22.01	22.09	
10	16QAM	25	0	21.61	21.67	21.79	23
10	16QAM	25	12	21.74	21.78	21.71	
10	16QAM	25	25	21.68	21.82	21.70	
10	16QAM	50	0	21.61	21.78	21.68	
10	64QAM	1	0	21.90	21.99	21.91	23
10	64QAM	1	25	21.83	21.87	21.77	
10	64QAM	1	49	21.84	21.93	21.76	
10	64QAM	25	0	20.63	20.58	20.70	22
10	64QAM	25	12	20.78	20.82	20.80	
10	64QAM	25	25	20.61	20.61	20.90	
10	64QAM	50	0	20.89	20.80	20.64	
10	256QAM	1	0	18.58	18.60	18.67	20
10	256QAM	1	25	18.56	18.71	18.45	
10	256QAM	1	49	18.61	18.46	18.37	
10	256QAM	25	0	18.75	18.67	18.60	20
10	256QAM	25	12	18.62	18.70	18.77	
10	256QAM	25	25	18.50	18.63	18.74	
10	256QAM	50	0	18.45	18.55	18.51	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.13	22.29	22.26	23.5
5	QPSK	1	12	21.96	22.05	22.22	
5	QPSK	1	24	21.96	22.04	22.04	
5	QPSK	12	0	22.20	22.24	22.07	23.5
5	QPSK	12	7	22.12	22.06	22.22	
5	QPSK	12	13	22.11	22.32	22.18	
5	QPSK	25	0	22.19	22.18	22.26	
5	16QAM	1	0	22.04	22.03	22.16	23.5
5	16QAM	1	12	22.07	22.08	22.25	
5	16QAM	1	24	21.99	22.01	22.23	
5	16QAM	12	0	21.52	21.58	21.83	23
5	16QAM	12	7	21.66	21.67	21.76	
5	16QAM	12	13	21.64	21.79	21.63	
5	16QAM	25	0	21.60	21.60	21.73	
5	64QAM	1	0	21.84	22.06	21.98	23
5	64QAM	1	12	21.80	21.89	21.89	
5	64QAM	1	24	21.86	21.87	21.72	
5	64QAM	12	0	20.76	20.65	20.64	22
5	64QAM	12	7	20.77	20.83	20.68	
5	64QAM	12	13	20.81	20.66	20.77	
5	64QAM	25	0	20.79	20.87	20.66	
5	256QAM	1	0	18.55	18.61	18.68	20
5	256QAM	1	12	18.55	18.86	18.54	
5	256QAM	1	24	18.72	18.55	18.45	
5	256QAM	12	0	18.72	18.75	18.47	20
5	256QAM	12	7	18.48	18.74	18.75	
5	256QAM	12	13	18.46	18.59	18.70	
5	256QAM	25	0	18.57	18.63	18.66	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	22.11	22.14	22.14	23.5
3	QPSK	1	8	22.02	22.13	22.15	
3	QPSK	1	14	22.01	22.07	22.08	
3	QPSK	8	0	22.20	22.12	22.09	23.5
3	QPSK	8	4	22.17	22.23	22.15	
3	QPSK	8	7	21.99	22.28	22.14	
3	QPSK	15	0	22.27	22.31	22.21	
3	16QAM	1	0	22.00	22.15	22.23	23.5
3	16QAM	1	8	22.12	22.02	22.18	
3	16QAM	1	14	22.06	22.06	22.18	
3	16QAM	8	0	21.72	21.66	21.66	23
3	16QAM	8	4	21.69	21.73	21.78	
3	16QAM	8	7	21.52	21.64	21.77	
3	16QAM	15	0	21.70	21.61	21.62	
3	64QAM	1	0	21.87	21.90	21.78	23
3	64QAM	1	8	21.80	21.73	21.82	
3	64QAM	1	14	21.86	22.02	21.81	
3	64QAM	8	0	20.72	20.75	20.67	22
3	64QAM	8	4	20.67	20.72	20.75	
3	64QAM	8	7	20.74	20.61	20.81	
3	64QAM	15	0	20.81	20.82	20.71	
3	256QAM	1	0	18.52	18.75	18.65	20
3	256QAM	1	8	18.58	18.83	18.61	
3	256QAM	1	14	18.60	18.55	18.50	
3	256QAM	8	0	18.88	18.73	18.58	20
3	256QAM	8	4	18.55	18.58	18.72	
3	256QAM	8	7	18.48	18.72	18.61	
3	256QAM	15	0	18.54	18.55	18.65	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.11	22.25	22.31	23.5
1.4	QPSK	1	3	22.03	22.07	22.16	
1.4	QPSK	1	5	22.01	22.09	22.22	
1.4	QPSK	3	0	22.19	22.21	22.23	
1.4	QPSK	3	1	21.90	22.10	22.16	
1.4	QPSK	3	3	21.95	22.01	22.07	
1.4	QPSK	6	0	22.19	22.13	22.12	23.5
1.4	16QAM	1	0	22.05	22.18	22.15	23.5
1.4	16QAM	1	3	22.17	22.22	22.16	
1.4	16QAM	1	5	22.27	22.16	22.21	
1.4	16QAM	3	0	22.01	22.13	22.25	
1.4	16QAM	3	1	21.98	22.13	22.28	
1.4	16QAM	3	3	22.08	22.12	22.19	
1.4	16QAM	6	0	21.54	21.61	21.77	23
1.4	64QAM	1	0	21.67	21.69	21.65	23
1.4	64QAM	1	3	21.63	21.73	21.73	
1.4	64QAM	1	5	21.56	21.72	21.63	
1.4	64QAM	3	0	21.79	21.93	21.78	
1.4	64QAM	3	1	21.72	21.89	21.92	
1.4	64QAM	3	3	21.73	21.97	21.79	
1.4	64QAM	6	0	20.65	20.66	20.84	22
1.4	256QAM	1	0	18.55	18.73	18.55	20
1.4	256QAM	1	3	18.59	18.82	18.64	
1.4	256QAM	1	5	18.71	18.49	18.34	
1.4	256QAM	3	0	18.78	18.69	18.50	
1.4	256QAM	3	1	18.48	18.60	18.76	
1.4	256QAM	3	3	18.50	18.76	18.71	
1.4	256QAM	6	0	18.44	18.55	18.51	20



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.99	19.00	18.92	
20	QPSK	1	49	18.91	18.79	18.75	19.2
20	QPSK	1	99	18.85	18.96	18.89	
20	QPSK	50	0	18.96	18.96	18.94	
20	QPSK	50	24	18.95	18.93	18.88	19.2
20	QPSK	50	50	18.90	18.90	18.86	
20	QPSK	100	0	18.98	18.99	18.93	
20	16QAM	1	0	18.91	18.90	18.84	19.2
20	16QAM	1	49	18.91	18.92	18.82	
20	16QAM	1	99	18.90	18.95	18.88	
20	16QAM	50	0	18.96	18.95	18.92	19.2
20	16QAM	50	24	18.90	18.95	18.86	
20	16QAM	50	50	18.91	18.94	18.86	
20	16QAM	100	0	18.98	18.96	18.88	19.2
20	64QAM	1	0	18.92	18.93	18.74	
20	64QAM	1	49	18.96	18.86	18.85	
20	64QAM	1	99	18.75	18.84	18.74	19.2
20	64QAM	50	0	18.93	18.93	18.97	
20	64QAM	50	24	18.90	18.94	18.94	
20	64QAM	50	50	18.95	18.97	18.91	19.2
20	64QAM	100	0	18.99	18.96	18.93	
20	256QAM	1	0	18.56	18.72	18.43	
20	256QAM	1	49	18.14	18.27	18.05	19.2
20	256QAM	1	99	18.30	18.45	18.16	
20	256QAM	50	0	18.48	18.50	18.29	
20	256QAM	50	24	18.42	18.31	18.29	19.2
20	256QAM	50	50	18.26	18.34	18.06	
20	256QAM	100	0	18.28	18.36	18.32	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.92	18.83	18.76	
15	QPSK	1	37	18.74	18.68	18.74	19.2
15	QPSK	1	74	18.72	18.91	18.83	
15	QPSK	36	0	18.88	18.92	18.80	
15	QPSK	36	20	18.78	18.92	18.73	19.2
15	QPSK	36	39	18.82	18.72	18.77	
15	QPSK	75	0	18.93	18.91	18.91	
15	16QAM	1	0	18.83	18.87	18.80	19.2
15	16QAM	1	37	18.83	18.76	18.65	
15	16QAM	1	74	18.89	18.84	18.84	
15	16QAM	36	0	18.82	18.80	18.78	19.2
15	16QAM	36	20	18.81	18.88	18.68	
15	16QAM	36	39	18.78	18.74	18.74	
15	16QAM	75	0	18.85	18.92	18.76	19.2
15	64QAM	1	0	18.82	18.87	18.74	
15	64QAM	1	37	18.96	18.67	18.77	
15	64QAM	1	74	18.58	18.66	18.55	19.2
15	64QAM	36	0	18.77	18.74	18.90	
15	64QAM	36	20	18.71	18.79	18.86	
15	64QAM	36	39	18.84	18.89	18.76	19.2
15	64QAM	75	0	18.89	18.83	18.92	
15	256QAM	1	0	18.36	18.59	18.37	
15	256QAM	1	37	17.99	18.12	18.02	19.2
15	256QAM	1	74	18.11	18.39	18.15	
15	256QAM	36	0	18.47	18.50	18.22	
15	256QAM	36	20	18.42	18.22	18.29	19.2



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15	256QAM	36	39	18.20	18.30	17.95	
15	256QAM	75	0	18.23	18.17	18.29	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.80	18.80	18.91	19.2
10	QPSK	1	25	18.72	18.78	18.73	
10	QPSK	1	49	18.72	18.90	18.78	
10	QPSK	25	0	18.76	18.81	18.94	19.2
10	QPSK	25	12	18.91	18.92	18.88	
10	QPSK	25	25	18.84	18.83	18.75	
10	QPSK	50	0	18.93	18.81	18.80	
10	16QAM	1	0	18.77	18.71	18.72	19.2
10	16QAM	1	25	18.87	18.90	18.73	
10	16QAM	1	49	18.81	18.82	18.83	
10	16QAM	25	0	18.81	18.92	18.89	19.2
10	16QAM	25	12	18.87	18.76	18.72	
10	16QAM	25	25	18.74	18.94	18.83	
10	16QAM	50	0	18.93	18.92	18.72	
10	64QAM	1	0	18.83	18.77	18.68	19.2
10	64QAM	1	25	18.87	18.81	18.81	
10	64QAM	1	49	18.75	18.79	18.71	
10	64QAM	25	0	18.75	18.90	18.83	19.2
10	64QAM	25	12	18.75	18.89	18.94	
10	64QAM	25	25	18.88	18.84	18.77	
10	64QAM	50	0	18.86	18.76	18.74	
10	256QAM	1	0	18.55	18.62	18.32	19.2
10	256QAM	1	25	18.06	18.18	17.93	
10	256QAM	1	49	18.30	18.32	18.04	
10	256QAM	25	0	18.40	18.37	18.20	19.2
10	256QAM	25	12	18.36	18.22	18.13	
10	256QAM	25	25	18.21	18.22	17.88	
10	256QAM	50	0	18.26	18.32	18.17	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.80	18.92	18.88	19.2
5	QPSK	1	12	18.80	18.78	18.68	
5	QPSK	1	24	18.82	18.85	18.86	
5	QPSK	12	0	18.92	18.77	18.77	19.2
5	QPSK	12	7	18.84	18.78	18.73	
5	QPSK	12	13	18.73	18.87	18.70	
5	QPSK	25	0	18.80	18.96	18.85	
5	16QAM	1	0	18.84	18.73	18.83	19.2
5	16QAM	1	12	18.82	18.90	18.74	
5	16QAM	1	24	18.88	18.75	18.88	
5	16QAM	12	0	18.91	18.90	18.73	19.2
5	16QAM	12	7	18.89	18.82	18.69	
5	16QAM	12	13	18.76	18.94	18.82	
5	16QAM	25	0	18.82	18.92	18.74	
5	64QAM	1	0	18.78	18.88	18.66	19.2
5	64QAM	1	12	18.82	18.69	18.69	
5	64QAM	1	24	18.60	18.78	18.56	
5	64QAM	12	0	18.78	18.78	18.81	19.2
5	64QAM	12	7	18.81	18.80	18.92	
5	64QAM	12	13	18.79	18.77	18.79	
5	64QAM	25	0	18.93	18.90	18.90	
5	256QAM	1	0	18.39	18.69	18.25	19.2
5	256QAM	1	12	17.95	18.14	17.97	
5	256QAM	1	24	18.15	18.41	18.07	
5	256QAM	12	0	18.36	18.35	18.22	19.2
5	256QAM	12	7	18.36	18.18	18.13	
5	256QAM	12	13	18.20	18.26	18.02	
5	256QAM	25	0	18.28	18.20	18.25	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	18.83	18.82	18.77	19.2
3	QPSK	1	8	18.81	18.64	18.63	
3	QPSK	1	14	18.74	18.89	18.78	
3	QPSK	8	0	18.88	18.81	18.77	19.2
3	QPSK	8	4	18.86	18.89	18.81	
3	QPSK	8	7	18.83	18.81	18.80	
3	QPSK	15	0	18.87	18.99	18.80	
3	16QAM	1	0	18.86	18.82	18.70	19.2
3	16QAM	1	8	18.86	18.75	18.81	
3	16QAM	1	14	18.86	18.90	18.71	
3	16QAM	8	0	18.81	18.93	18.75	19.2
3	16QAM	8	4	18.81	18.95	18.86	
3	16QAM	8	7	18.85	18.84	18.69	
3	16QAM	15	0	18.82	18.88	18.85	
3	64QAM	1	0	18.86	18.77	18.67	19.2
3	64QAM	1	8	18.84	18.85	18.67	
3	64QAM	1	14	18.75	18.72	18.60	
3	64QAM	8	0	18.92	18.85	18.79	19.2
3	64QAM	8	4	18.90	18.80	18.88	
3	64QAM	8	7	18.93	18.84	18.87	
3	64QAM	15	0	18.90	18.93	18.73	
3	256QAM	1	0	18.42	18.71	18.36	19.2
3	256QAM	1	8	18.14	18.23	18.05	
3	256QAM	1	14	18.11	18.40	18.14	
3	256QAM	8	0	18.44	18.41	18.23	19.2
3	256QAM	8	4	18.38	18.11	18.15	
3	256QAM	8	7	18.19	18.28	17.93	
3	256QAM	15	0	18.21	18.28	18.32	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.91	18.80	18.75	19.2
1.4	QPSK	1	3	18.84	18.74	18.56	
1.4	QPSK	1	5	18.68	18.80	18.85	
1.4	QPSK	3	0	18.82	18.93	18.75	
1.4	QPSK	3	1	18.78	18.87	18.72	
1.4	QPSK	3	3	18.83	18.89	18.80	
1.4	QPSK	6	0	18.92	18.98	18.75	
1.4	16QAM	1	0	18.72	18.73	18.81	19.2
1.4	16QAM	1	3	18.77	18.81	18.63	
1.4	16QAM	1	5	18.82	18.78	18.81	
1.4	16QAM	3	0	18.92	18.94	18.92	
1.4	16QAM	3	1	18.80	18.93	18.71	
1.4	16QAM	3	3	18.83	18.81	18.68	
1.4	16QAM	6	0	18.81	18.83	18.70	19.2
1.4	64QAM	1	0	18.80	18.83	18.69	19.2
1.4	64QAM	1	3	18.79	18.76	18.80	
1.4	64QAM	1	5	18.68	18.78	18.65	
1.4	64QAM	3	0	18.93	18.90	18.82	
1.4	64QAM	3	1	18.72	18.78	18.78	
1.4	64QAM	3	3	18.80	18.84	18.83	
1.4	64QAM	6	0	18.86	18.93	18.78	19.2
1.4	256QAM	1	0	18.52	18.72	18.30	19.2
1.4	256QAM	1	3	17.99	18.19	17.95	
1.4	256QAM	1	5	18.10	18.36	18.01	
1.4	256QAM	3	0	18.42	18.43	18.27	
1.4	256QAM	3	1	18.39	18.21	18.26	
1.4	256QAM	3	3	18.07	18.17	17.95	
1.4	256QAM	6	0	18.14	18.21	18.31	19.2



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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)
Channel				20050	20175	20300	24.6
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.97	23.93	23.90	
20	QPSK	1	49	23.68	23.67	23.66	24
20	QPSK	1	99	23.83	23.85	23.83	
20	QPSK	50	0	23.01	22.96	22.84	
20	QPSK	50	24	22.97	22.88	22.84	24
20	QPSK	50	50	22.88	22.86	22.78	
20	QPSK	100	0	22.92	22.91	22.82	
20	16QAM	1	0	23.18	23.11	23.11	24
20	16QAM	1	49	23.07	23.01	22.99	
20	16QAM	1	99	23.09	23.07	23.04	
20	16QAM	50	0	21.84	21.78	21.78	23
20	16QAM	50	24	21.79	21.87	21.76	
20	16QAM	50	50	21.85	21.86	21.79	
20	16QAM	100	0	21.85	21.85	21.79	23
20	64QAM	1	0	22.12	22.08	22.02	
20	64QAM	1	49	22.08	21.96	21.90	
20	64QAM	1	99	21.99	21.98	21.97	22
20	64QAM	50	0	20.99	20.97	20.86	
20	64QAM	50	24	20.97	20.92	20.86	
20	64QAM	50	50	20.89	20.90	20.85	20
20	64QAM	100	0	20.90	20.90	20.85	
20	256QAM	1	0	19.11	19.10	19.06	
20	256QAM	1	49	18.76	18.82	18.78	20
20	256QAM	1	99	18.94	18.95	18.91	
20	256QAM	50	0	18.83	18.88	18.74	20
20	256QAM	50	24	18.97	18.99	18.88	
20	256QAM	50	50	18.87	18.93	18.88	
20	256QAM	100	0	18.87	18.89	18.75	24.6
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.90	23.83	23.72	24.6
15	QPSK	1	37	23.62	23.58	23.58	
15	QPSK	1	74	23.64	23.70	23.67	
15	QPSK	36	0	22.95	22.90	22.64	24
15	QPSK	36	20	22.92	22.76	22.67	
15	QPSK	36	39	22.69	22.79	22.75	
15	QPSK	75	0	22.83	22.73	22.66	24
15	16QAM	1	0	23.16	23.05	23.05	
15	16QAM	1	37	23.02	22.91	22.99	
15	16QAM	1	74	23.07	22.93	22.91	23
15	16QAM	36	0	21.64	21.68	21.78	
15	16QAM	36	20	21.69	21.72	21.66	
15	16QAM	36	39	21.76	21.75	21.71	23
15	16QAM	75	0	21.72	21.84	21.61	
15	64QAM	1	0	21.96	21.96	21.89	
15	64QAM	1	37	21.88	21.86	21.89	22
15	64QAM	1	74	21.87	21.92	21.82	
15	64QAM	36	0	20.90	20.93	20.67	
15	64QAM	36	20	20.78	20.77	20.84	20
15	64QAM	36	39	20.81	20.84	20.67	
15	64QAM	75	0	20.81	20.88	20.66	
15	256QAM	1	0	19.06	19.04	18.91	20
15	256QAM	1	37	18.56	18.64	18.59	
15	256QAM	1	74	18.89	18.82	18.74	
15	256QAM	36	0	18.80	18.83	18.59	20
15	256QAM	36	20	18.91	18.82	18.69	



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15	256QAM	36	39	18.76	18.92	18.79	Tune-up limit (dBm)
15	256QAM	75	0	18.69	18.85	18.57	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.89	23.92	23.83	24.6
10	QPSK	1	25	23.63	23.48	23.54	
10	QPSK	1	49	23.70	23.76	23.66	
10	QPSK	25	0	22.91	22.96	22.83	24
10	QPSK	25	12	22.86	22.81	22.75	
10	QPSK	25	25	22.70	22.83	22.70	
10	QPSK	50	0	22.91	22.88	22.72	
10	16QAM	1	0	23.13	22.91	23.02	24
10	16QAM	1	25	22.90	22.87	22.88	
10	16QAM	1	49	23.03	22.98	22.93	
10	16QAM	25	0	21.65	21.70	21.60	23
10	16QAM	25	12	21.79	21.86	21.62	
10	16QAM	25	25	21.73	21.66	21.66	
10	16QAM	50	0	21.71	21.67	21.76	
10	64QAM	1	0	22.11	21.92	21.90	23
10	64QAM	1	25	22.07	21.93	21.90	
10	64QAM	1	49	21.96	21.94	21.94	
10	64QAM	25	0	20.82	20.78	20.84	22
10	64QAM	25	12	20.77	20.90	20.77	
10	64QAM	25	25	20.75	20.75	20.82	
10	64QAM	50	0	20.88	20.70	20.69	
10	256QAM	1	0	19.04	19.01	19.02	20
10	256QAM	1	25	18.67	18.71	18.59	
10	256QAM	1	49	18.87	18.82	18.74	
10	256QAM	25	0	18.78	18.73	18.67	20
10	256QAM	25	12	18.88	18.88	18.69	
10	256QAM	25	25	18.82	18.92	18.69	
10	256QAM	50	0	18.77	18.89	18.70	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.96	23.86	23.76	24.6
5	QPSK	1	12	23.61	23.57	23.62	
5	QPSK	1	24	23.67	23.84	23.68	
5	QPSK	12	0	22.91	22.90	22.72	24
5	QPSK	12	7	22.89	22.71	22.76	
5	QPSK	12	13	22.82	22.76	22.62	
5	QPSK	25	0	22.82	22.78	22.65	
5	16QAM	1	0	23.07	22.96	23.07	24
5	16QAM	1	12	22.97	23.00	22.93	
5	16QAM	1	24	22.91	23.04	22.94	
5	16QAM	12	0	21.77	21.61	21.72	23
5	16QAM	12	7	21.79	21.67	21.75	
5	16QAM	12	13	21.65	21.76	21.65	
5	16QAM	25	0	21.80	21.68	21.65	
5	64QAM	1	0	21.96	21.92	21.94	23
5	64QAM	1	12	22.02	21.78	21.85	
5	64QAM	1	24	21.96	21.95	21.87	
5	64QAM	12	0	20.85	20.79	20.70	22
5	64QAM	12	7	20.92	20.91	20.83	
5	64QAM	12	13	20.84	20.86	20.78	
5	64QAM	25	0	20.81	20.76	20.69	
5	256QAM	1	0	19.06	19.00	18.97	20
5	256QAM	1	12	18.73	18.70	18.74	
5	256QAM	1	24	18.78	18.92	18.84	
5	256QAM	12	0	18.74	18.70	18.54	20
5	256QAM	12	7	18.90	18.85	18.82	
5	256QAM	12	13	18.75	18.86	18.72	
5	256QAM	25	0	18.82	18.74	18.70	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.90	23.78	23.87	24.6
3	QPSK	1	8	23.53	23.51	23.53	
3	QPSK	1	14	23.72	23.79	23.76	
3	QPSK	8	0	22.91	22.80	22.83	24
3	QPSK	8	4	22.90	22.69	22.77	
3	QPSK	8	7	22.74	22.82	22.73	
3	QPSK	15	0	22.78	22.82	22.69	
3	16QAM	1	0	23.06	23.09	22.96	24
3	16QAM	1	8	22.88	23.00	22.93	
3	16QAM	1	14	22.97	22.96	22.99	
3	16QAM	8	0	21.67	21.77	21.66	23
3	16QAM	8	4	21.70	21.77	21.59	
3	16QAM	8	7	21.83	21.82	21.78	
3	16QAM	15	0	21.75	21.72	21.65	
3	64QAM	1	0	22.04	22.05	21.85	23
3	64QAM	1	8	22.05	21.77	21.76	
3	64QAM	1	14	21.82	21.80	21.89	
3	64QAM	8	0	20.97	20.88	20.79	22
3	64QAM	8	4	20.79	20.87	20.81	
3	64QAM	8	7	20.75	20.74	20.85	
3	64QAM	15	0	20.71	20.76	20.70	
3	256QAM	1	0	19.05	18.90	18.98	20
3	256QAM	1	8	18.66	18.66	18.66	
3	256QAM	1	14	18.93	18.83	18.86	
3	256QAM	8	0	18.81	18.83	18.69	20
3	256QAM	8	4	18.93	18.91	18.84	
3	256QAM	8	7	18.81	18.85	18.76	
3	256QAM	15	0	18.78	18.75	18.60	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.79	23.87	23.84	24.6
1.4	QPSK	1	3	23.52	23.63	23.58	
1.4	QPSK	1	5	23.81	23.81	23.77	
1.4	QPSK	3	0	23.87	23.92	23.77	
1.4	QPSK	3	1	23.67	23.55	23.61	
1.4	QPSK	3	3	23.79	23.76	23.63	
1.4	QPSK	6	0	22.97	22.85	22.72	24
1.4	16QAM	1	0	22.96	22.75	22.64	24
1.4	16QAM	1	3	22.81	22.77	22.75	
1.4	16QAM	1	5	22.84	22.78	22.82	
1.4	16QAM	3	0	23.00	22.97	22.94	
1.4	16QAM	3	1	22.90	22.95	22.87	
1.4	16QAM	3	3	23.07	22.92	22.94	23
1.4	16QAM	6	0	21.66	21.65	21.72	
1.4	64QAM	1	0	21.60	21.81	21.71	
1.4	64QAM	1	3	21.67	21.66	21.66	
1.4	64QAM	1	5	21.78	21.81	21.60	23
1.4	64QAM	3	0	22.00	21.88	21.86	
1.4	64QAM	3	1	21.95	21.77	21.73	
1.4	64QAM	3	3	21.95	21.87	21.79	
1.4	64QAM	6	0	20.86	20.82	20.74	22
1.4	256QAM	1	0	18.94	18.96	18.98	20
1.4	256QAM	1	3	18.64	18.68	18.76	
1.4	256QAM	1	5	18.92	18.88	18.83	
1.4	256QAM	3	0	18.71	18.84	18.72	
1.4	256QAM	3	1	18.85	18.80	18.74	
1.4	256QAM	3	3	18.82	18.76	18.87	20
1.4	256QAM	6	0	18.77	18.87	18.58	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.07	19.04	19.13	
20	QPSK	1	49	19.03	18.98	18.94	19.2
20	QPSK	1	99	18.98	18.97	19.11	
20	QPSK	50	0	19.11	19.08	19.12	
20	QPSK	50	24	19.04	19.00	19.04	19.2
20	QPSK	50	50	19.03	19.00	19.01	
20	QPSK	100	0	18.99	19.07	19.10	
20	16QAM	1	0	19.10	19.07	19.05	19.2
20	16QAM	1	49	19.06	19.04	19.07	
20	16QAM	1	99	19.02	19.09	19.05	
20	16QAM	50	0	18.99	18.99	19.11	19.2
20	16QAM	50	24	18.97	19.02	19.01	
20	16QAM	50	50	18.95	18.97	19.02	
20	16QAM	100	0	18.98	19.00	19.02	19.2
20	64QAM	1	0	19.12	19.02	19.09	
20	64QAM	1	49	19.07	19.01	19.10	
20	64QAM	1	99	19.08	19.08	19.10	19.2
20	64QAM	50	0	19.09	18.98	19.05	
20	64QAM	50	24	19.08	18.98	19.06	
20	64QAM	50	50	19.01	18.95	19.02	19.2
20	64QAM	100	0	19.04	19.08	19.12	
20	256QAM	1	0	18.85	18.97	19.12	
20	256QAM	1	49	18.93	18.89	19.03	19.2
20	256QAM	1	99	18.93	18.93	18.93	
20	256QAM	50	0	18.97	18.92	19.10	
20	256QAM	50	24	18.94	19.08	19.09	19.2
20	256QAM	50	50	18.96	19.01	18.97	
20	256QAM	100	0	18.89	18.93	19.06	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.07	18.92	18.93	
15	QPSK	1	37	19.02	18.81	18.78	19.2
15	QPSK	1	74	18.95	18.86	18.97	
15	QPSK	36	0	18.93	18.89	18.94	19.2
15	QPSK	36	20	19.04	18.96	18.94	
15	QPSK	36	39	18.84	18.82	18.84	
15	QPSK	75	0	18.85	18.95	18.90	19.2
15	16QAM	1	0	19.10	19.00	18.95	
15	16QAM	1	37	18.89	18.89	18.96	
15	16QAM	1	74	18.98	18.90	18.98	19.2
15	16QAM	36	0	18.93	18.83	18.98	
15	16QAM	36	20	18.78	18.93	18.82	
15	16QAM	36	39	18.77	18.79	19.00	19.2
15	16QAM	75	0	18.97	18.89	19.02	
15	64QAM	1	0	19.07	18.94	18.90	
15	64QAM	1	37	19.02	18.93	18.91	19.2
15	64QAM	1	74	19.03	18.97	18.98	
15	64QAM	36	0	18.99	18.82	18.98	
15	64QAM	36	20	18.97	18.80	18.87	19.2
15	64QAM	36	39	18.92	18.84	18.83	
15	64QAM	75	0	18.96	19.00	19.08	
15	256QAM	1	0	18.79	18.78	19.06	19.2
15	256QAM	1	37	18.77	18.79	19.00	
15	256QAM	1	74	18.73	18.90	18.77	
15	256QAM	36	0	18.77	18.81	18.96	19.2
15	256QAM	36	20	18.91	19.07	19.00	



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15	256QAM	36	39	18.89	18.95	18.93	
15	256QAM	75	0	18.89	18.90	18.92	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.05	18.84	19.02	19.2
10	QPSK	1	25	18.86	18.82	18.74	
10	QPSK	1	49	18.86	18.93	19.09	
10	QPSK	25	0	18.96	19.08	18.96	19.2
10	QPSK	25	12	18.90	18.93	18.87	
10	QPSK	25	25	18.84	18.95	18.82	
10	QPSK	50	0	18.88	19.04	18.98	
10	16QAM	1	0	19.09	18.96	18.94	19.2
10	16QAM	1	25	18.90	18.84	19.00	
10	16QAM	1	49	18.95	19.02	18.97	
10	16QAM	25	0	18.98	18.90	18.95	19.2
10	16QAM	25	12	18.82	19.00	18.93	
10	16QAM	25	25	18.78	18.90	18.86	
10	16QAM	50	0	18.93	18.84	18.96	
10	64QAM	1	0	18.97	18.99	18.95	19.2
10	64QAM	1	25	18.88	18.82	19.09	
10	64QAM	1	49	19.05	18.92	18.91	
10	64QAM	25	0	18.93	18.90	19.05	19.2
10	64QAM	25	12	18.97	18.92	18.86	
10	64QAM	25	25	18.88	18.93	19.02	
10	64QAM	50	0	18.85	18.90	18.96	
10	256QAM	1	0	18.65	18.87	18.99	19.2
10	256QAM	1	25	18.86	18.75	18.94	
10	256QAM	1	49	18.86	18.91	18.73	
10	256QAM	25	0	18.92	18.88	19.04	19.2
10	256QAM	25	12	18.82	18.89	18.97	
10	256QAM	25	25	18.91	18.87	18.78	
10	256QAM	50	0	18.69	18.90	18.99	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.87	18.95	19.13	19.2
5	QPSK	1	12	18.98	18.95	18.93	
5	QPSK	1	24	18.92	18.97	18.95	
5	QPSK	12	0	19.11	19.00	18.99	19.2
5	QPSK	12	7	18.89	18.92	18.87	
5	QPSK	12	13	18.84	18.81	18.91	
5	QPSK	25	0	18.79	19.05	19.00	
5	16QAM	1	0	19.02	19.04	18.93	19.2
5	16QAM	1	12	18.95	18.96	19.01	
5	16QAM	1	24	19.01	19.00	18.90	
5	16QAM	12	0	18.89	18.87	19.02	19.2
5	16QAM	12	7	18.96	18.83	18.82	
5	16QAM	12	13	18.80	18.90	18.82	
5	16QAM	25	0	18.88	18.84	18.88	
5	64QAM	1	0	18.97	18.89	18.92	19.2
5	64QAM	1	12	18.91	18.98	18.93	
5	64QAM	1	24	18.99	19.04	18.90	
5	64QAM	12	0	19.06	18.85	18.90	19.2
5	64QAM	12	7	19.01	18.83	18.88	
5	64QAM	12	13	18.96	18.85	19.02	
5	64QAM	25	0	18.95	19.01	19.02	
5	256QAM	1	0	18.78	18.84	18.94	19.2
5	256QAM	1	12	18.88	18.82	18.84	
5	256QAM	1	24	18.78	18.80	18.77	
5	256QAM	12	0	18.92	18.76	18.99	19.2
5	256QAM	12	7	18.83	19.01	18.95	
5	256QAM	12	13	18.84	18.93	18.90	
5	256QAM	25	0	18.85	18.86	18.91	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	19.07	19.04	19.02	19.2
3	QPSK	1	8	19.00	18.98	18.76	
3	QPSK	1	14	18.89	18.86	19.08	
3	QPSK	8	0	18.94	19.05	19.00	19.2
3	QPSK	8	4	18.84	18.87	19.04	
3	QPSK	8	7	18.98	18.96	18.87	
3	QPSK	15	0	18.94	18.96	18.93	
3	16QAM	1	0	18.92	19.05	18.98	19.2
3	16QAM	1	8	19.01	19.02	18.87	
3	16QAM	1	14	18.83	18.95	18.96	
3	16QAM	8	0	18.79	18.85	19.04	19.2
3	16QAM	8	4	18.84	18.96	18.85	
3	16QAM	8	7	18.78	18.88	18.85	
3	16QAM	15	0	18.94	18.81	18.84	
3	64QAM	1	0	18.94	18.95	19.05	19.2
3	64QAM	1	8	19.01	18.96	18.95	
3	64QAM	1	14	18.94	18.99	18.99	
3	64QAM	8	0	19.00	18.82	18.89	19.2
3	64QAM	8	4	19.04	18.92	19.05	
3	64QAM	8	7	18.98	18.91	18.85	
3	64QAM	15	0	18.93	18.98	18.92	
3	256QAM	1	0	18.79	18.93	18.95	19.2
3	256QAM	1	8	18.86	18.88	18.98	
3	256QAM	1	14	18.75	18.88	18.87	
3	256QAM	8	0	18.82	18.73	19.06	19.2
3	256QAM	8	4	18.93	18.90	19.05	
3	256QAM	8	7	18.85	18.86	18.82	
3	256QAM	15	0	18.86	18.86	18.86	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.88	18.90	19.13	19.2
1.4	QPSK	1	3	19.02	18.88	18.93	
1.4	QPSK	1	5	18.95	18.97	18.92	
1.4	QPSK	3	0	18.99	18.96	19.01	
1.4	QPSK	3	1	18.90	18.81	18.98	
1.4	QPSK	3	3	19.02	18.90	18.85	
1.4	QPSK	6	0	18.80	19.01	19.03	
1.4	16QAM	1	0	19.07	19.00	19.03	19.2
1.4	16QAM	1	3	18.95	19.04	18.92	
1.4	16QAM	1	5	18.87	19.02	18.92	
1.4	16QAM	3	0	18.82	18.93	19.07	
1.4	16QAM	3	1	18.97	18.94	19.00	
1.4	16QAM	3	3	18.84	18.79	18.82	19.2
1.4	16QAM	6	0	18.90	18.90	18.95	
1.4	64QAM	1	0	19.06	18.96	18.95	19.2
1.4	64QAM	1	3	19.06	18.91	18.96	
1.4	64QAM	1	5	19.00	19.08	18.93	
1.4	64QAM	3	0	18.91	18.84	18.92	
1.4	64QAM	3	1	18.93	18.90	18.90	
1.4	64QAM	3	3	18.97	18.92	18.82	
1.4	64QAM	6	0	19.02	19.01	18.98	19.2
1.4	256QAM	1	0	18.85	18.94	18.93	19.2
1.4	256QAM	1	3	18.88	18.73	19.03	
1.4	256QAM	1	5	18.87	18.92	18.84	
1.4	256QAM	3	0	18.80	18.87	18.97	
1.4	256QAM	3	1	18.77	19.06	18.97	
1.4	256QAM	3	3	18.93	19.01	18.93	19.2
1.4	256QAM	6	0	18.78	18.76	19.01	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.21	22.33	22.32	22.8
20	QPSK	1	49	22.08	22.24	22.30	
20	QPSK	1	99	22.15	22.20	22.24	
20	QPSK	50	0	22.26	22.27	22.25	22.8
20	QPSK	50	24	22.25	22.24	22.25	
20	QPSK	50	50	22.19	22.32	22.24	
20	QPSK	100	0	22.28	22.31	22.30	22.8
20	16QAM	1	0	22.10	22.21	22.27	
20	16QAM	1	49	22.13	22.14	22.30	
20	16QAM	1	99	22.13	22.12	22.28	22.8
20	16QAM	50	0	21.72	21.73	21.83	
20	16QAM	50	24	21.77	21.86	21.82	
20	16QAM	50	50	21.71	21.82	21.83	22.8
20	16QAM	100	0	21.70	21.79	21.79	
20	64QAM	1	0	21.95	22.09	21.98	
20	64QAM	1	49	21.83	21.89	21.96	22.8
20	64QAM	1	99	21.87	22.02	21.92	
20	64QAM	50	0	20.83	20.78	20.84	
20	64QAM	50	24	20.84	20.85	20.82	22
20	64QAM	50	50	20.81	20.81	20.90	
20	64QAM	100	0	20.91	20.90	20.83	
20	256QAM	1	0	18.70	18.76	18.73	20
20	256QAM	1	49	18.59	18.87	18.64	
20	256QAM	1	99	18.75	18.58	18.53	
20	256QAM	50	0	18.90	18.75	18.64	20
20	256QAM	50	24	18.64	18.74	18.82	
20	256QAM	50	50	18.56	18.78	18.81	
20	256QAM	100	0	18.64	18.71	18.71	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.06	22.21	22.14	22.8
15	QPSK	1	37	22.02	22.05	22.21	
15	QPSK	1	74	21.95	22.09	22.05	
15	QPSK	36	0	22.21	22.21	22.08	22.8
15	QPSK	36	20	22.17	22.12	22.23	
15	QPSK	36	39	22.00	22.18	22.14	
15	QPSK	75	0	22.09	22.31	22.22	22.8
15	16QAM	1	0	22.10	22.20	22.09	
15	16QAM	1	37	21.93	21.98	22.21	
15	16QAM	1	74	22.10	21.92	22.28	22.8
15	16QAM	36	0	21.55	21.59	21.77	
15	16QAM	36	20	21.71	21.71	21.70	
15	16QAM	36	39	21.56	21.71	21.76	22.8
15	16QAM	75	0	21.59	21.76	21.75	
15	64QAM	1	0	21.76	22.07	21.82	
15	64QAM	1	37	21.79	21.69	21.82	22.8
15	64QAM	1	74	21.82	22.02	21.87	
15	64QAM	36	0	20.81	20.63	20.72	
15	64QAM	36	20	20.75	20.79	20.71	22
15	64QAM	36	39	20.78	20.78	20.71	
15	64QAM	75	0	20.87	20.83	20.72	
15	256QAM	1	0	18.65	18.64	18.57	20
15	256QAM	1	37	18.39	18.86	18.54	
15	256QAM	1	74	18.56	18.44	18.43	
15	256QAM	36	0	18.86	18.60	18.58	20
15	256QAM	36	20	18.59	18.67	18.82	



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15	256QAM	36	39	18.38	18.67	18.67	Tune-up limit (dBm)
15	256QAM	75	0	18.62	18.56	18.53	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.12	22.30	22.31	22.8
10	QPSK	1	25	22.03	22.04	22.10	
10	QPSK	1	49	22.08	22.08	22.23	
10	QPSK	25	0	22.13	22.13	22.13	22.8
10	QPSK	25	12	22.10	22.13	22.21	
10	QPSK	25	25	22.08	22.21	22.19	
10	QPSK	50	0	22.15	22.11	22.12	
10	16QAM	1	0	21.93	22.06	22.10	22.8
10	16QAM	1	25	21.93	22.07	22.24	
10	16QAM	1	49	22.05	22.01	22.09	
10	16QAM	25	0	21.61	21.67	21.79	22.8
10	16QAM	25	12	21.74	21.78	21.71	
10	16QAM	25	25	21.68	21.82	21.70	
10	16QAM	50	0	21.61	21.78	21.68	
10	64QAM	1	0	21.90	21.99	21.91	22.8
10	64QAM	1	25	21.83	21.87	21.77	
10	64QAM	1	49	21.84	21.93	21.76	
10	64QAM	25	0	20.63	20.58	20.70	22
10	64QAM	25	12	20.78	20.82	20.80	
10	64QAM	25	25	20.61	20.61	20.90	
10	64QAM	50	0	20.89	20.80	20.64	
10	256QAM	1	0	18.58	18.60	18.67	20
10	256QAM	1	25	18.56	18.71	18.45	
10	256QAM	1	49	18.61	18.46	18.37	
10	256QAM	25	0	18.75	18.67	18.60	20
10	256QAM	25	12	18.62	18.70	18.77	
10	256QAM	25	25	18.50	18.63	18.74	
10	256QAM	50	0	18.45	18.55	18.51	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.13	22.29	22.26	22.8
5	QPSK	1	12	21.96	22.05	22.22	
5	QPSK	1	24	21.96	22.04	22.04	
5	QPSK	12	0	22.20	22.24	22.07	22.8
5	QPSK	12	7	22.12	22.06	22.22	
5	QPSK	12	13	22.11	22.32	22.18	
5	QPSK	25	0	22.19	22.18	22.26	
5	16QAM	1	0	22.04	22.03	22.16	22.8
5	16QAM	1	12	22.07	22.08	22.25	
5	16QAM	1	24	21.99	22.01	22.23	
5	16QAM	12	0	21.52	21.58	21.83	22.8
5	16QAM	12	7	21.66	21.67	21.76	
5	16QAM	12	13	21.64	21.79	21.63	
5	16QAM	25	0	21.60	21.60	21.73	
5	64QAM	1	0	21.84	22.06	21.98	22.8
5	64QAM	1	12	21.80	21.89	21.89	
5	64QAM	1	24	21.86	21.87	21.72	
5	64QAM	12	0	20.76	20.65	20.64	22
5	64QAM	12	7	20.77	20.83	20.68	
5	64QAM	12	13	20.81	20.66	20.77	
5	64QAM	25	0	20.79	20.87	20.66	
5	256QAM	1	0	18.55	18.61	18.68	20
5	256QAM	1	12	18.55	18.86	18.54	
5	256QAM	1	24	18.72	18.55	18.45	
5	256QAM	12	0	18.72	18.75	18.47	20
5	256QAM	12	7	18.48	18.74	18.75	
5	256QAM	12	13	18.46	18.59	18.70	
5	256QAM	25	0	18.57	18.63	18.66	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	22.11	22.14	22.14	22.8
3	QPSK	1	8	22.02	22.13	22.15	
3	QPSK	1	14	22.01	22.07	22.08	
3	QPSK	8	0	22.20	22.12	22.09	22.8
3	QPSK	8	4	22.17	22.23	22.15	
3	QPSK	8	7	21.99	22.28	22.14	
3	QPSK	15	0	22.27	22.31	22.21	
3	16QAM	1	0	22.00	22.15	22.23	22.8
3	16QAM	1	8	22.12	22.02	22.18	
3	16QAM	1	14	22.06	22.06	22.18	
3	16QAM	8	0	21.72	21.66	21.66	22.8
3	16QAM	8	4	21.69	21.73	21.78	
3	16QAM	8	7	21.52	21.64	21.77	
3	16QAM	15	0	21.70	21.61	21.62	
3	64QAM	1	0	21.87	21.90	21.78	22.8
3	64QAM	1	8	21.80	21.73	21.82	
3	64QAM	1	14	21.86	22.02	21.81	
3	64QAM	8	0	20.72	20.75	20.67	22
3	64QAM	8	4	20.67	20.72	20.75	
3	64QAM	8	7	20.74	20.61	20.81	
3	64QAM	15	0	20.81	20.82	20.71	
3	256QAM	1	0	18.52	18.75	18.65	20
3	256QAM	1	8	18.58	18.83	18.61	
3	256QAM	1	14	18.60	18.55	18.50	
3	256QAM	8	0	18.88	18.73	18.58	20
3	256QAM	8	4	18.55	18.58	18.72	
3	256QAM	8	7	18.48	18.72	18.61	
3	256QAM	15	0	18.54	18.55	18.65	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.11	22.25	22.31	22.8
1.4	QPSK	1	3	22.03	22.07	22.16	
1.4	QPSK	1	5	22.01	22.09	22.22	
1.4	QPSK	3	0	22.19	22.21	22.23	
1.4	QPSK	3	1	21.90	22.10	22.16	
1.4	QPSK	3	3	21.95	22.01	22.07	
1.4	QPSK	6	0	22.19	22.13	22.12	22.8
1.4	16QAM	1	0	22.05	22.18	22.15	22.8
1.4	16QAM	1	3	22.17	22.22	22.16	
1.4	16QAM	1	5	22.27	22.16	22.21	
1.4	16QAM	3	0	22.01	22.13	22.25	
1.4	16QAM	3	1	21.98	22.13	22.28	
1.4	16QAM	3	3	22.08	22.12	22.19	
1.4	16QAM	6	0	21.54	21.61	21.77	22.8
1.4	64QAM	1	0	21.67	21.69	21.65	22.8
1.4	64QAM	1	3	21.63	21.73	21.73	
1.4	64QAM	1	5	21.56	21.72	21.63	
1.4	64QAM	3	0	21.79	21.93	21.78	
1.4	64QAM	3	1	21.72	21.89	21.92	
1.4	64QAM	3	3	21.73	21.97	21.79	
1.4	64QAM	6	0	20.65	20.66	20.84	22
1.4	256QAM	1	0	18.55	18.73	18.55	20
1.4	256QAM	1	3	18.59	18.82	18.64	
1.4	256QAM	1	5	18.71	18.49	18.34	
1.4	256QAM	3	0	18.78	18.69	18.50	
1.4	256QAM	3	1	18.48	18.60	18.76	
1.4	256QAM	3	3	18.50	18.76	18.71	
1.4	256QAM	6	0	18.44	18.55	18.51	20



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	
5	QPSK	12	7	23.44	23.39	23.33	24.3
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	
5	16QAM	1	0	23.55	23.64	23.59	24.3
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	
5	16QAM	12	0	22.36	22.39	22.39	23.3
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	
5	16QAM	25	0	22.43	22.44	22.41	23.3
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	
5	64QAM	1	24	22.36	22.45	22.29	22.3
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	
5	64QAM	12	13	21.23	21.32	21.26	20.3
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	
5	256QAM	1	12	19.09	19.29	19.02	20.3
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	
5	256QAM	12	7	19.20	19.37	19.21	20.3
5	256QAM	12	13	19.16	19.29	19.13	



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5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	
3	64QAM	8	4	21.40	21.28	21.27	22.3
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	
3	256QAM	1	0	19.41	19.59	19.56	20.3
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	
3	256QAM	8	0	19.42	19.43	19.50	20.3
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	
3	256QAM	15	0	19.37	19.34	19.38	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.73	22.58	22.79	
10	QPSK	1	25	22.28	22.45	23.00	24
10	QPSK	1	49	22.47	22.34	22.13	
10	QPSK	25	0	22.49	22.37	22.35	
10	QPSK	25	12	22.46	22.42	22.44	24
10	QPSK	25	25	22.32	22.40	22.29	
10	QPSK	50	0	22.47	22.40	22.37	
10	16QAM	1	0	22.48	22.41	22.43	24
10	16QAM	1	25	22.30	22.33	22.33	
10	16QAM	1	49	22.22	22.36	22.20	
10	16QAM	25	0	22.43	22.38	22.40	24
10	16QAM	25	12	22.44	22.48	22.55	
10	16QAM	25	25	22.47	22.41	22.31	
10	16QAM	50	0	22.48	22.41	22.45	24
10	64QAM	1	0	22.62	22.72	22.52	
10	64QAM	1	25	22.44	22.57	22.09	
10	64QAM	1	49	22.42	22.32	22.06	23.3
10	64QAM	25	0	21.41	21.55	21.38	
10	64QAM	25	12	21.42	21.38	21.46	
10	64QAM	25	25	21.41	21.37	21.47	21.3
10	64QAM	50	0	21.36	21.47	21.44	
10	256QAM	1	0	19.64	19.41	19.36	
10	256QAM	1	25	19.26	19.25	19.44	21.3
10	256QAM	1	49	19.39	19.49	19.38	
10	256QAM	25	0	19.40	19.45	19.44	
10	256QAM	25	12	19.40	19.38	19.41	21.3
10	256QAM	25	25	19.44	19.47	19.31	
10	256QAM	50	0	19.41	19.32	19.41	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.68	22.46	22.54	
5	QPSK	1	12	22.06	22.20	22.75	24
5	QPSK	1	24	22.32	22.23	22.06	
5	QPSK	12	0	22.31	22.13	22.16	
5	QPSK	12	7	22.40	22.17	22.31	24
5	QPSK	12	13	22.07	22.30	22.16	
5	QPSK	25	0	22.27	22.21	22.24	
5	16QAM	1	0	22.30	22.36	22.37	24
5	16QAM	1	12	22.12	22.13	22.16	
5	16QAM	1	24	22.09	22.14	22.07	
5	16QAM	12	0	22.35	22.36	22.36	24
5	16QAM	12	7	22.43	22.44	22.45	
5	16QAM	12	13	22.45	22.33	22.26	
5	16QAM	25	0	22.39	22.39	22.40	24
5	64QAM	1	0	22.52	22.70	22.49	
5	64QAM	1	12	22.34	22.48	22.04	
5	64QAM	1	24	22.39	22.31	22.04	23.3
5	64QAM	12	0	21.34	21.48	21.29	
5	64QAM	12	7	21.38	21.38	21.44	
5	64QAM	12	13	21.31	21.32	21.38	21.3
5	64QAM	25	0	21.36	21.45	21.36	
5	256QAM	1	0	19.55	19.33	19.36	
5	256QAM	1	12	19.22	19.25	19.38	21.3
5	256QAM	1	24	19.35	19.39	19.31	
5	256QAM	12	0	19.36	19.38	19.39	
5	256QAM	12	7	19.35	19.37	19.32	21.3
5	256QAM	12	13	19.39	19.39	19.31	



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5	256QAM	25	0	19.38	19.30	19.35	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.48	22.41	22.74	24
3	QPSK	1	8	22.08	22.27	22.82	
3	QPSK	1	14	22.38	22.09	22.00	
3	QPSK	8	0	22.24	22.22	22.17	24
3	QPSK	8	4	22.36	22.20	22.30	
3	QPSK	8	7	22.11	22.24	22.18	
3	QPSK	15	0	22.29	22.19	22.25	24
3	16QAM	1	0	22.33	22.35	22.28	
3	16QAM	1	8	22.05	22.16	22.27	
3	16QAM	1	14	22.03	22.17	22.14	24
3	16QAM	8	0	22.42	22.46	22.46	
3	16QAM	8	4	22.43	22.45	22.49	
3	16QAM	8	7	22.48	22.33	22.31	24
3	16QAM	15	0	22.45	22.43	22.41	
3	64QAM	1	0	22.56	22.80	22.53	
3	64QAM	1	8	22.42	22.56	22.07	24
3	64QAM	1	14	22.49	22.38	22.06	
3	64QAM	8	0	21.34	21.56	21.29	
3	64QAM	8	4	21.44	21.43	21.50	23.3
3	64QAM	8	7	21.39	21.40	21.47	
3	64QAM	15	0	21.38	21.46	21.38	
3	256QAM	1	0	19.61	19.41	19.43	21.3
3	256QAM	1	8	19.30	19.34	19.43	
3	256QAM	1	14	19.39	19.46	19.35	
3	256QAM	8	0	19.44	19.43	19.43	21.3
3	256QAM	8	4	19.35	19.46	19.41	
3	256QAM	8	7	19.42	19.41	19.36	
3	256QAM	15	0	19.40	19.31	19.40	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.48	22.41	22.74	24
1.4	QPSK	1	3	22.05	22.22	22.75	
1.4	QPSK	1	5	22.24	22.11	21.90	
1.4	QPSK	3	0	22.41	22.21	22.25	24
1.4	QPSK	3	1	22.33	22.22	22.25	
1.4	QPSK	3	3	22.25	22.27	22.23	
1.4	QPSK	6	0	22.34	22.27	22.14	24
1.4	16QAM	1	0	22.28	22.21	22.19	24
1.4	16QAM	1	3	22.23	22.14	22.09	
1.4	16QAM	1	5	22.02	22.14	22.15	
1.4	16QAM	3	0	22.14	22.11	22.06	24
1.4	16QAM	3	1	22.14	22.10	22.10	
1.4	16QAM	3	3	22.13	22.05	22.08	
1.4	16QAM	6	0	22.10	22.16	22.02	24
1.4	64QAM	1	0	22.23	22.43	22.15	24
1.4	64QAM	1	3	22.04	22.16	22.01	
1.4	64QAM	1	5	22.02	21.89	22.04	
1.4	64QAM	3	0	22.05	22.10	22.07	24
1.4	64QAM	3	1	20.96	20.97	22.04	
1.4	64QAM	3	3	21.10	20.96	22.05	
1.4	64QAM	6	0	21.32	21.33	21.38	23.3
1.4	256QAM	1	0	19.38	19.31	19.39	21.3
1.4	256QAM	1	3	19.38	19.36	19.35	
1.4	256QAM	1	5	19.38	19.03	19.36	
1.4	256QAM	3	0	19.36	18.93	19.36	21.3
1.4	256QAM	3	1	19.37	19.33	19.32	
1.4	256QAM	3	3	19.33	19.33	19.32	
1.4	256QAM	6	0	19.36	19.36	19.38	21.3



<LTE Band 5_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	
5	QPSK	12	7	23.44	23.39	23.33	24.3
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	
5	16QAM	1	0	23.55	23.64	23.59	24.3
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	
5	16QAM	12	0	22.36	22.39	22.39	23.3
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	
5	16QAM	25	0	22.43	22.44	22.41	23.3
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	
5	64QAM	1	24	22.36	22.45	22.29	22.3
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	
5	64QAM	12	13	21.23	21.32	21.26	20.3
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	
5	256QAM	1	12	19.09	19.29	19.02	20.3
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	
5	256QAM	12	7	19.20	19.37	19.21	20.3
5	256QAM	12	13	19.16	19.29	19.13	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	
3	64QAM	8	4	21.40	21.28	21.27	22.3
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	
3	256QAM	1	0	19.41	19.59	19.56	20.3
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	
3	256QAM	8	0	19.42	19.43	19.50	20.3
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	
3	256QAM	15	0	19.37	19.34	19.38	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



<LTE Band 5_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.73	22.58	22.79	
10	QPSK	1	25	22.28	22.45	23.00	23.3
10	QPSK	1	49	22.47	22.34	22.13	
10	QPSK	25	0	22.49	22.37	22.35	
10	QPSK	25	12	22.46	22.42	22.44	23.3
10	QPSK	25	25	22.32	22.40	22.29	
10	QPSK	50	0	22.47	22.40	22.37	
10	16QAM	1	0	22.48	22.41	22.43	23.3
10	16QAM	1	25	22.30	22.33	22.33	
10	16QAM	1	49	22.22	22.36	22.20	
10	16QAM	25	0	22.43	22.38	22.40	23.3
10	16QAM	25	12	22.44	22.48	22.55	
10	16QAM	25	25	22.47	22.41	22.31	
10	16QAM	50	0	22.48	22.41	22.45	23.3
10	64QAM	1	0	22.62	22.72	22.52	
10	64QAM	1	25	22.44	22.57	22.09	
10	64QAM	1	49	22.42	22.32	22.06	22.3
10	64QAM	25	0	21.41	21.55	21.38	
10	64QAM	25	12	21.42	21.38	21.46	
10	64QAM	25	25	21.41	21.37	21.47	20.3
10	64QAM	50	0	21.36	21.47	21.44	
10	256QAM	1	0	19.64	19.41	19.36	
10	256QAM	1	25	19.26	19.25	19.44	20.3
10	256QAM	1	49	19.39	19.49	19.38	
10	256QAM	25	0	19.40	19.45	19.44	
10	256QAM	25	12	19.40	19.38	19.41	20.3
10	256QAM	25	25	19.44	19.47	19.31	
10	256QAM	50	0	19.41	19.32	19.41	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.68	22.46	22.54	
5	QPSK	1	12	22.06	22.20	22.75	23.3
5	QPSK	1	24	22.32	22.23	22.06	
5	QPSK	12	0	22.31	22.13	22.16	
5	QPSK	12	7	22.40	22.17	22.31	23.3
5	QPSK	12	13	22.07	22.30	22.16	
5	QPSK	25	0	22.27	22.21	22.24	
5	16QAM	1	0	22.30	22.36	22.37	23.3
5	16QAM	1	12	22.12	22.13	22.16	
5	16QAM	1	24	22.09	22.14	22.07	
5	16QAM	12	0	22.35	22.36	22.36	23.3
5	16QAM	12	7	22.43	22.44	22.45	
5	16QAM	12	13	22.45	22.33	22.26	
5	16QAM	25	0	22.39	22.39	22.40	23.3
5	64QAM	1	0	22.52	22.70	22.49	
5	64QAM	1	12	22.34	22.48	22.04	
5	64QAM	1	24	22.39	22.31	22.04	22.3
5	64QAM	12	0	21.34	21.48	21.29	
5	64QAM	12	7	21.38	21.38	21.44	
5	64QAM	12	13	21.31	21.32	21.38	20.3
5	64QAM	25	0	21.36	21.45	21.36	
5	256QAM	1	0	19.55	19.33	19.36	
5	256QAM	1	12	19.22	19.25	19.38	20.3
5	256QAM	1	24	19.35	19.39	19.31	
5	256QAM	12	0	19.36	19.38	19.39	
5	256QAM	12	7	19.35	19.37	19.32	20.3
5	256QAM	12	13	19.39	19.39	19.31	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.38	19.30	19.35	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.48	22.41	22.74	23.3
3	QPSK	1	8	22.08	22.27	22.82	
3	QPSK	1	14	22.38	22.09	22.00	
3	QPSK	8	0	22.24	22.22	22.17	23.3
3	QPSK	8	4	22.36	22.20	22.30	
3	QPSK	8	7	22.11	22.24	22.18	
3	QPSK	15	0	22.29	22.19	22.25	23.3
3	16QAM	1	0	22.33	22.35	22.28	
3	16QAM	1	8	22.05	22.16	22.27	
3	16QAM	1	14	22.03	22.17	22.14	23.3
3	16QAM	8	0	22.42	22.46	22.46	
3	16QAM	8	4	22.43	22.45	22.49	
3	16QAM	8	7	22.48	22.33	22.31	23.3
3	16QAM	15	0	22.45	22.43	22.41	
3	64QAM	1	0	22.56	22.80	22.53	
3	64QAM	1	8	22.42	22.56	22.07	23.3
3	64QAM	1	14	22.49	22.38	22.06	
3	64QAM	8	0	21.34	21.56	21.29	
3	64QAM	8	4	21.44	21.43	21.50	22.3
3	64QAM	8	7	21.39	21.40	21.47	
3	64QAM	15	0	21.38	21.46	21.38	
3	256QAM	1	0	19.61	19.41	19.43	20.3
3	256QAM	1	8	19.30	19.34	19.43	
3	256QAM	1	14	19.39	19.46	19.35	
3	256QAM	8	0	19.44	19.43	19.43	20.3
3	256QAM	8	4	19.35	19.46	19.41	
3	256QAM	8	7	19.42	19.41	19.36	
3	256QAM	15	0	19.40	19.31	19.40	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.48	22.41	22.74	23.3
1.4	QPSK	1	3	22.05	22.22	22.75	
1.4	QPSK	1	5	22.24	22.11	21.90	
1.4	QPSK	3	0	22.41	22.21	22.25	
1.4	QPSK	3	1	22.33	22.22	22.25	
1.4	QPSK	3	3	22.25	22.27	22.23	
1.4	QPSK	6	0	22.34	22.27	22.14	23.3
1.4	16QAM	1	0	22.28	22.21	22.19	23.3
1.4	16QAM	1	3	22.23	22.14	22.09	
1.4	16QAM	1	5	22.02	22.14	22.15	
1.4	16QAM	3	0	22.14	22.11	22.06	
1.4	16QAM	3	1	22.14	22.10	22.10	
1.4	16QAM	3	3	22.13	22.05	22.08	
1.4	16QAM	6	0	22.10	22.16	22.02	23.3
1.4	64QAM	1	0	22.23	22.43	22.15	23.3
1.4	64QAM	1	3	22.04	22.16	22.01	
1.4	64QAM	1	5	22.02	21.89	22.04	
1.4	64QAM	3	0	22.05	22.10	22.07	
1.4	64QAM	3	1	20.96	20.97	22.04	
1.4	64QAM	3	3	21.10	20.96	22.05	
1.4	64QAM	6	0	21.32	21.33	21.38	22.3
1.4	256QAM	1	0	19.38	19.31	19.39	20.3
1.4	256QAM	1	3	19.38	19.36	19.35	
1.4	256QAM	1	5	19.38	19.03	19.36	
1.4	256QAM	3	0	19.36	18.93	19.36	
1.4	256QAM	3	1	19.37	19.33	19.32	
1.4	256QAM	3	3	19.33	19.33	19.32	20.3
1.4	256QAM	6	0	19.36	19.36	19.38	



<LTE Band 5_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	24.3
5	QPSK	12	7	23.44	23.39	23.33	
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	24.3
5	16QAM	1	0	23.55	23.64	23.59	
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	23.3
5	16QAM	12	0	22.36	22.39	22.39	
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	23.3
5	16QAM	25	0	22.43	22.44	22.41	
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	23.3
5	64QAM	1	24	22.36	22.45	22.29	
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	22.3
5	64QAM	12	13	21.23	21.32	21.26	
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	20.3
5	256QAM	1	12	19.09	19.29	19.02	
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	20.3
5	256QAM	12	7	19.20	19.37	19.21	
5	256QAM	12	13	19.16	19.29	19.13	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	22.3
3	64QAM	8	4	21.40	21.28	21.27	
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	20.3
3	256QAM	1	0	19.41	19.59	19.56	
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	20.3
3	256QAM	8	0	19.42	19.43	19.50	
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	20.3
3	256QAM	15	0	19.37	19.34	19.38	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



<LTE Band 5_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.32	24.30	24.21	
10	QPSK	1	25	24.30	24.29	24.23	25.3
10	QPSK	1	49	24.24	24.22	24.08	
10	QPSK	25	0	23.35	23.30	23.25	
10	QPSK	25	12	23.28	23.27	23.21	24.3
10	QPSK	25	25	23.27	23.25	23.16	
10	QPSK	50	0	23.34	23.30	23.22	
10	16QAM	1	0	23.61	23.49	23.50	24.3
10	16QAM	1	25	23.40	23.42	23.53	
10	16QAM	1	49	23.37	23.37	23.21	
10	16QAM	25	0	22.34	22.30	22.21	23.3
10	16QAM	25	12	22.26	22.29	22.20	
10	16QAM	25	25	22.22	22.24	22.18	
10	16QAM	50	0	22.27	22.25	22.19	23.3
10	64QAM	1	0	22.52	22.57	22.47	
10	64QAM	1	25	22.51	22.47	22.41	
10	64QAM	1	49	22.37	22.31	22.18	22.3
10	64QAM	25	0	21.28	21.24	21.17	
10	64QAM	25	12	21.26	21.21	21.15	
10	64QAM	25	25	21.23	21.13	21.12	20.3
10	64QAM	50	0	21.30	21.27	21.17	
10	256QAM	1	0	19.48	19.43	19.38	
10	256QAM	1	25	19.27	19.23	19.14	20.3
10	256QAM	1	49	19.21	19.25	19.12	
10	256QAM	25	0	19.23	19.26	19.14	
10	256QAM	25	12	19.20	19.23	19.18	20.3
10	256QAM	25	25	19.31	19.31	19.21	
10	256QAM	50	0	19.26	19.24	19.17	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.23	24.28	24.15	
5	QPSK	1	12	24.19	24.26	24.10	25.3
5	QPSK	1	24	24.12	24.16	23.99	
5	QPSK	12	0	23.22	23.10	23.11	24.3
5	QPSK	12	7	23.09	23.24	23.12	
5	QPSK	12	13	23.08	23.09	22.97	
5	QPSK	25	0	23.33	23.21	23.11	24.3
5	16QAM	1	0	23.61	23.36	23.34	
5	16QAM	1	12	23.32	23.33	23.44	
5	16QAM	1	24	23.20	23.35	23.15	23.3
5	16QAM	12	0	22.27	22.28	22.16	
5	16QAM	12	7	22.16	22.16	22.01	
5	16QAM	12	13	22.10	22.24	22.11	23.3
5	16QAM	25	0	22.23	22.17	22.08	
5	64QAM	1	0	22.43	22.43	22.43	
5	64QAM	1	12	22.45	22.37	22.41	23.3
5	64QAM	1	24	22.17	22.20	22.00	
5	64QAM	12	0	21.27	21.04	21.01	
5	64QAM	12	7	21.11	21.11	21.15	22.3
5	64QAM	12	13	21.03	21.07	20.96	
5	64QAM	25	0	21.14	21.19	21.17	
5	256QAM	1	0	19.47	19.31	19.34	20.3
5	256QAM	1	12	19.11	19.23	19.10	
5	256QAM	1	24	19.09	19.06	19.03	
5	256QAM	12	0	19.04	19.08	18.97	20.3
5	256QAM	12	7	19.02	19.03	19.17	
5	256QAM	12	13	19.14	19.28	19.12	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.24	19.11	18.99	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.23	24.20	24.05	25.3
3	QPSK	1	8	24.23	24.28	24.07	
3	QPSK	1	14	24.19	24.16	23.94	
3	QPSK	8	0	23.32	23.26	23.07	24.3
3	QPSK	8	4	23.14	23.16	23.17	
3	QPSK	8	7	23.11	23.10	22.97	
3	QPSK	15	0	23.27	23.26	23.05	24.3
3	16QAM	1	0	23.56	23.31	23.34	
3	16QAM	1	8	23.20	23.29	23.49	
3	16QAM	1	14	23.35	23.25	23.21	23.3
3	16QAM	8	0	22.32	22.10	22.05	
3	16QAM	8	4	22.12	22.10	22.00	
3	16QAM	8	7	22.18	22.20	22.09	23.3
3	16QAM	15	0	22.09	22.15	22.00	
3	64QAM	1	0	22.33	22.48	22.46	
3	64QAM	1	8	22.36	22.43	22.29	23.3
3	64QAM	1	14	22.23	22.12	21.99	
3	64QAM	8	0	21.12	21.24	21.08	
3	64QAM	8	4	21.20	21.13	21.12	22.3
3	64QAM	8	7	21.08	20.99	21.05	
3	64QAM	15	0	21.21	21.15	21.17	
3	256QAM	1	0	19.42	19.43	19.21	20.3
3	256QAM	1	8	19.13	19.20	19.04	
3	256QAM	1	14	19.06	19.17	18.93	
3	256QAM	8	0	19.18	19.25	18.97	20.3
3	256QAM	8	4	19.08	19.04	19.15	
3	256QAM	8	7	19.22	19.20	19.03	
3	256QAM	15	0	19.11	19.11	19.13	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.23	24.26	24.19	25.3
1.4	QPSK	1	3	24.24	24.20	24.11	
1.4	QPSK	1	5	24.12	24.09	23.98	
1.4	QPSK	3	0	24.21	24.16	24.04	24.3
1.4	QPSK	3	1	24.27	24.21	24.13	
1.4	QPSK	3	3	24.16	24.02	23.92	
1.4	QPSK	6	0	23.34	23.29	23.11	24.3
1.4	16QAM	1	0	23.17	23.16	23.21	
1.4	16QAM	1	3	23.13	23.18	23.07	
1.4	16QAM	1	5	23.34	23.15	23.02	24.3
1.4	16QAM	3	0	23.45	23.44	23.39	
1.4	16QAM	3	1	23.20	23.26	23.48	
1.4	16QAM	3	3	23.32	23.32	23.19	23.3
1.4	16QAM	6	0	22.32	22.25	22.11	
1.4	64QAM	1	0	22.25	22.14	22.17	
1.4	64QAM	1	3	22.02	22.17	22.14	23.3
1.4	64QAM	1	5	22.12	22.24	22.04	
1.4	64QAM	3	0	22.44	22.52	22.36	
1.4	64QAM	3	1	22.41	22.43	22.26	22.3
1.4	64QAM	3	3	22.33	22.18	22.09	
1.4	64QAM	6	0	21.21	21.04	21.09	
1.4	256QAM	1	0	19.48	19.24	19.34	20.3
1.4	256QAM	1	3	19.26	19.19	19.11	
1.4	256QAM	1	5	19.11	19.21	18.98	
1.4	256QAM	3	0	19.08	19.19	19.02	20.3
1.4	256QAM	3	1	19.07	19.11	18.98	
1.4	256QAM	3	3	19.27	19.14	19.01	
1.4	256QAM	6	0	19.22	19.19	19.06	20.3



<LTE Band 5_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	24.3
5	QPSK	12	7	23.44	23.39	23.33	
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	24.3
5	16QAM	1	0	23.55	23.64	23.59	
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	23.3
5	16QAM	12	0	22.36	22.39	22.39	
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	23.3
5	16QAM	25	0	22.43	22.44	22.41	
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	23.3
5	64QAM	1	24	22.36	22.45	22.29	
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	22.3
5	64QAM	12	13	21.23	21.32	21.26	
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	20.3
5	256QAM	1	12	19.09	19.29	19.02	
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	20.3
5	256QAM	12	7	19.20	19.37	19.21	
5	256QAM	12	13	19.16	19.29	19.13	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	22.3
3	64QAM	8	4	21.40	21.28	21.27	
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	20.3
3	256QAM	1	0	19.41	19.59	19.56	
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	20.3
3	256QAM	8	0	19.42	19.43	19.50	
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	20.3
3	256QAM	15	0	19.37	19.34	19.38	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



<LTE Band 5_Ant 1_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.32	24.30	24.21	
10	QPSK	1	25	24.30	24.29	24.23	25.3
10	QPSK	1	49	24.24	24.22	24.08	
10	QPSK	25	0	23.35	23.30	23.25	
10	QPSK	25	12	23.28	23.27	23.21	24.3
10	QPSK	25	25	23.27	23.25	23.16	
10	QPSK	50	0	23.34	23.30	23.22	
10	16QAM	1	0	23.61	23.49	23.50	24.3
10	16QAM	1	25	23.40	23.42	23.53	
10	16QAM	1	49	23.37	23.37	23.21	
10	16QAM	25	0	22.34	22.30	22.21	23.3
10	16QAM	25	12	22.26	22.29	22.20	
10	16QAM	25	25	22.22	22.24	22.18	
10	16QAM	50	0	22.27	22.25	22.19	23.3
10	64QAM	1	0	22.52	22.57	22.47	
10	64QAM	1	25	22.51	22.47	22.41	
10	64QAM	1	49	22.37	22.31	22.18	22.3
10	64QAM	25	0	21.28	21.24	21.17	
10	64QAM	25	12	21.26	21.21	21.15	
10	64QAM	25	25	21.23	21.13	21.12	20.3
10	64QAM	50	0	21.30	21.27	21.17	
10	256QAM	1	0	19.48	19.43	19.38	
10	256QAM	1	25	19.27	19.23	19.14	20.3
10	256QAM	1	49	19.21	19.25	19.12	
10	256QAM	25	0	19.23	19.26	19.14	
10	256QAM	25	12	19.20	19.23	19.18	20.3
10	256QAM	25	25	19.31	19.31	19.21	
10	256QAM	50	0	19.26	19.24	19.17	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.23	24.28	24.15	
5	QPSK	1	12	24.19	24.26	24.10	25.3
5	QPSK	1	24	24.12	24.16	23.99	
5	QPSK	12	0	23.22	23.10	23.11	
5	QPSK	12	7	23.09	23.24	23.12	24.3
5	QPSK	12	13	23.08	23.09	22.97	
5	QPSK	25	0	23.33	23.21	23.11	
5	16QAM	1	0	23.61	23.36	23.34	24.3
5	16QAM	1	12	23.32	23.33	23.44	
5	16QAM	1	24	23.20	23.35	23.15	
5	16QAM	12	0	22.27	22.28	22.16	23.3
5	16QAM	12	7	22.16	22.16	22.01	
5	16QAM	12	13	22.10	22.24	22.11	
5	16QAM	25	0	22.23	22.17	22.08	23.3
5	64QAM	1	0	22.43	22.43	22.43	
5	64QAM	1	12	22.45	22.37	22.41	
5	64QAM	1	24	22.17	22.20	22.00	22.3
5	64QAM	12	0	21.27	21.04	21.01	
5	64QAM	12	7	21.11	21.11	21.15	
5	64QAM	12	13	21.03	21.07	20.96	20.3
5	64QAM	25	0	21.14	21.19	21.17	
5	256QAM	1	0	19.47	19.31	19.34	
5	256QAM	1	12	19.11	19.23	19.10	20.3
5	256QAM	1	24	19.09	19.06	19.03	
5	256QAM	12	0	19.04	19.08	18.97	
5	256QAM	12	7	19.02	19.03	19.17	20.3
5	256QAM	12	13	19.14	19.28	19.12	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.24	19.11	18.99	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.23	24.20	24.05	25.3
3	QPSK	1	8	24.23	24.28	24.07	
3	QPSK	1	14	24.19	24.16	23.94	
3	QPSK	8	0	23.32	23.26	23.07	24.3
3	QPSK	8	4	23.14	23.16	23.17	
3	QPSK	8	7	23.11	23.10	22.97	
3	QPSK	15	0	23.27	23.26	23.05	24.3
3	16QAM	1	0	23.56	23.31	23.34	
3	16QAM	1	8	23.20	23.29	23.49	
3	16QAM	1	14	23.35	23.25	23.21	23.3
3	16QAM	8	0	22.32	22.10	22.05	
3	16QAM	8	4	22.12	22.10	22.00	
3	16QAM	8	7	22.18	22.20	22.09	23.3
3	16QAM	15	0	22.09	22.15	22.00	
3	64QAM	1	0	22.33	22.48	22.46	
3	64QAM	1	8	22.36	22.43	22.29	23.3
3	64QAM	1	14	22.23	22.12	21.99	
3	64QAM	8	0	21.12	21.24	21.08	
3	64QAM	8	4	21.20	21.13	21.12	22.3
3	64QAM	8	7	21.08	20.99	21.05	
3	64QAM	15	0	21.21	21.15	21.17	
3	256QAM	1	0	19.42	19.43	19.21	20.3
3	256QAM	1	8	19.13	19.20	19.04	
3	256QAM	1	14	19.06	19.17	18.93	
3	256QAM	8	0	19.18	19.25	18.97	20.3
3	256QAM	8	4	19.08	19.04	19.15	
3	256QAM	8	7	19.22	19.20	19.03	
3	256QAM	15	0	19.11	19.11	19.13	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.23	24.26	24.19	25.3
1.4	QPSK	1	3	24.24	24.20	24.11	
1.4	QPSK	1	5	24.12	24.09	23.98	
1.4	QPSK	3	0	24.21	24.16	24.04	24.3
1.4	QPSK	3	1	24.27	24.21	24.13	
1.4	QPSK	3	3	24.16	24.02	23.92	
1.4	QPSK	6	0	23.34	23.29	23.11	24.3
1.4	16QAM	1	0	23.17	23.16	23.21	
1.4	16QAM	1	3	23.13	23.18	23.07	
1.4	16QAM	1	5	23.34	23.15	23.02	24.3
1.4	16QAM	3	0	23.45	23.44	23.39	
1.4	16QAM	3	1	23.20	23.26	23.48	
1.4	16QAM	3	3	23.32	23.32	23.19	23.3
1.4	16QAM	6	0	22.32	22.25	22.11	
1.4	64QAM	1	0	22.25	22.14	22.17	
1.4	64QAM	1	3	22.02	22.17	22.14	23.3
1.4	64QAM	1	5	22.12	22.24	22.04	
1.4	64QAM	3	0	22.44	22.52	22.36	
1.4	64QAM	3	1	22.41	22.43	22.26	22.3
1.4	64QAM	3	3	22.33	22.18	22.09	
1.4	64QAM	6	0	21.21	21.04	21.09	
1.4	256QAM	1	0	19.48	19.24	19.34	20.3
1.4	256QAM	1	3	19.26	19.19	19.11	
1.4	256QAM	1	5	19.11	19.21	18.98	
1.4	256QAM	3	0	19.08	19.19	19.02	20.3
1.4	256QAM	3	1	19.07	19.11	18.98	
1.4	256QAM	3	3	19.27	19.14	19.01	
1.4	256QAM	6	0	19.22	19.19	19.06	20.3



<LTE Band 5_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	
5	QPSK	12	7	23.44	23.39	23.33	24.3
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	
5	16QAM	1	0	23.55	23.64	23.59	24.3
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	
5	16QAM	12	0	22.36	22.39	22.39	23.3
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	
5	16QAM	25	0	22.43	22.44	22.41	23.3
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	
5	64QAM	1	24	22.36	22.45	22.29	22.3
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	
5	64QAM	12	13	21.23	21.32	21.26	20.3
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	
5	256QAM	1	12	19.09	19.29	19.02	20.3
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	
5	256QAM	12	7	19.20	19.37	19.21	20.3
5	256QAM	12	13	19.16	19.29	19.13	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	22.3
3	64QAM	8	4	21.40	21.28	21.27	
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	20.3
3	256QAM	1	0	19.41	19.59	19.56	
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	20.3
3	256QAM	8	0	19.42	19.43	19.50	
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	20.3
3	256QAM	15	0	19.37	19.34	19.38	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



<LTE Band 5_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.32	24.30	24.21	
10	QPSK	1	25	24.30	24.29	24.23	25.3
10	QPSK	1	49	24.24	24.22	24.08	
10	QPSK	25	0	23.35	23.30	23.25	
10	QPSK	25	12	23.28	23.27	23.21	24.3
10	QPSK	25	25	23.27	23.25	23.16	
10	QPSK	50	0	23.34	23.30	23.22	
10	16QAM	1	0	23.61	23.49	23.50	24.3
10	16QAM	1	25	23.40	23.42	23.53	
10	16QAM	1	49	23.37	23.37	23.21	
10	16QAM	25	0	22.34	22.30	22.21	23.3
10	16QAM	25	12	22.26	22.29	22.20	
10	16QAM	25	25	22.22	22.24	22.18	
10	16QAM	50	0	22.27	22.25	22.19	23.3
10	64QAM	1	0	22.52	22.57	22.47	
10	64QAM	1	25	22.51	22.47	22.41	
10	64QAM	1	49	22.37	22.31	22.18	22.3
10	64QAM	25	0	21.28	21.24	21.17	
10	64QAM	25	12	21.26	21.21	21.15	
10	64QAM	25	25	21.23	21.13	21.12	20.3
10	64QAM	50	0	21.30	21.27	21.17	
10	256QAM	1	0	19.48	19.43	19.38	
10	256QAM	1	25	19.27	19.23	19.14	20.3
10	256QAM	1	49	19.21	19.25	19.12	
10	256QAM	25	0	19.23	19.26	19.14	
10	256QAM	25	12	19.20	19.23	19.18	20.3
10	256QAM	25	25	19.31	19.31	19.21	
10	256QAM	50	0	19.26	19.24	19.17	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.23	24.28	24.15	
5	QPSK	1	12	24.19	24.26	24.10	25.3
5	QPSK	1	24	24.12	24.16	23.99	
5	QPSK	12	0	23.22	23.10	23.11	
5	QPSK	12	7	23.09	23.24	23.12	24.3
5	QPSK	12	13	23.08	23.09	22.97	
5	QPSK	25	0	23.33	23.21	23.11	
5	16QAM	1	0	23.61	23.36	23.34	24.3
5	16QAM	1	12	23.32	23.33	23.44	
5	16QAM	1	24	23.20	23.35	23.15	
5	16QAM	12	0	22.27	22.28	22.16	23.3
5	16QAM	12	7	22.16	22.16	22.01	
5	16QAM	12	13	22.10	22.24	22.11	
5	16QAM	25	0	22.23	22.17	22.08	23.3
5	64QAM	1	0	22.43	22.43	22.43	
5	64QAM	1	12	22.45	22.37	22.41	
5	64QAM	1	24	22.17	22.20	22.00	22.3
5	64QAM	12	0	21.27	21.04	21.01	
5	64QAM	12	7	21.11	21.11	21.15	
5	64QAM	12	13	21.03	21.07	20.96	20.3
5	64QAM	25	0	21.14	21.19	21.17	
5	256QAM	1	0	19.47	19.31	19.34	
5	256QAM	1	12	19.11	19.23	19.10	20.3
5	256QAM	1	24	19.09	19.06	19.03	
5	256QAM	12	0	19.04	19.08	18.97	
5	256QAM	12	7	19.02	19.03	19.17	20.3
5	256QAM	12	13	19.14	19.28	19.12	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.24	19.11	18.99	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.23	24.20	24.05	25.3
3	QPSK	1	8	24.23	24.28	24.07	
3	QPSK	1	14	24.19	24.16	23.94	
3	QPSK	8	0	23.32	23.26	23.07	24.3
3	QPSK	8	4	23.14	23.16	23.17	
3	QPSK	8	7	23.11	23.10	22.97	
3	QPSK	15	0	23.27	23.26	23.05	24.3
3	16QAM	1	0	23.56	23.31	23.34	
3	16QAM	1	8	23.20	23.29	23.49	
3	16QAM	1	14	23.35	23.25	23.21	23.3
3	16QAM	8	0	22.32	22.10	22.05	
3	16QAM	8	4	22.12	22.10	22.00	
3	16QAM	8	7	22.18	22.20	22.09	23.3
3	16QAM	15	0	22.09	22.15	22.00	
3	64QAM	1	0	22.33	22.48	22.46	
3	64QAM	1	8	22.36	22.43	22.29	23.3
3	64QAM	1	14	22.23	22.12	21.99	
3	64QAM	8	0	21.12	21.24	21.08	22.3
3	64QAM	8	4	21.20	21.13	21.12	
3	64QAM	8	7	21.08	20.99	21.05	
3	64QAM	15	0	21.21	21.15	21.17	20.3
3	256QAM	1	0	19.42	19.43	19.21	
3	256QAM	1	8	19.13	19.20	19.04	
3	256QAM	1	14	19.06	19.17	18.93	20.3
3	256QAM	8	0	19.18	19.25	18.97	
3	256QAM	8	4	19.08	19.04	19.15	
3	256QAM	8	7	19.22	19.20	19.03	20.3
3	256QAM	15	0	19.11	19.11	19.13	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.23	24.26	24.19	25.3
1.4	QPSK	1	3	24.24	24.20	24.11	
1.4	QPSK	1	5	24.12	24.09	23.98	
1.4	QPSK	3	0	24.21	24.16	24.04	24.3
1.4	QPSK	3	1	24.27	24.21	24.13	
1.4	QPSK	3	3	24.16	24.02	23.92	
1.4	QPSK	6	0	23.34	23.29	23.11	24.3
1.4	16QAM	1	0	23.17	23.16	23.21	
1.4	16QAM	1	3	23.13	23.18	23.07	
1.4	16QAM	1	5	23.34	23.15	23.02	23.3
1.4	16QAM	3	0	23.45	23.44	23.39	
1.4	16QAM	3	1	23.20	23.26	23.48	
1.4	16QAM	3	3	23.32	23.32	23.19	23.3
1.4	16QAM	6	0	22.32	22.25	22.11	
1.4	64QAM	1	0	22.25	22.14	22.17	
1.4	64QAM	1	3	22.02	22.17	22.14	23.3
1.4	64QAM	1	5	22.12	22.24	22.04	
1.4	64QAM	3	0	22.44	22.52	22.36	
1.4	64QAM	3	1	22.41	22.43	22.26	22.3
1.4	64QAM	3	3	22.33	22.18	22.09	
1.4	64QAM	6	0	21.21	21.04	21.09	
1.4	256QAM	1	0	19.48	19.24	19.34	20.3
1.4	256QAM	1	3	19.26	19.19	19.11	
1.4	256QAM	1	5	19.11	19.21	18.98	
1.4	256QAM	3	0	19.08	19.19	19.02	20.3
1.4	256QAM	3	1	19.07	19.11	18.98	
1.4	256QAM	3	3	19.27	19.14	19.01	
1.4	256QAM	6	0	19.22	19.19	19.06	20.3



<LTE Band 5_Ant 0_Index 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	
5	QPSK	12	7	23.44	23.39	23.33	24.3
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	
5	16QAM	1	0	23.55	23.64	23.59	24.3
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	
5	16QAM	12	0	22.36	22.39	22.39	23.3
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	
5	16QAM	25	0	22.43	22.44	22.41	23.3
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	
5	64QAM	1	24	22.36	22.45	22.29	22.3
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	
5	64QAM	12	13	21.23	21.32	21.26	20.3
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	
5	256QAM	1	12	19.09	19.29	19.02	20.3
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	
5	256QAM	12	7	19.20	19.37	19.21	20.3
5	256QAM	12	13	19.16	19.29	19.13	



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Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	22.3
3	64QAM	8	4	21.40	21.28	21.27	
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	20.3
3	256QAM	1	0	19.41	19.59	19.56	
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	20.3
3	256QAM	8	0	19.42	19.43	19.50	
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	20.3
3	256QAM	15	0	19.37	19.34	19.38	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3

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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.59	23.49	23.38	23.8
10	QPSK	1	25	23.55	23.47	23.37	
10	QPSK	1	49	23.45	23.47	23.31	
10	QPSK	25	0	23.34	23.35	23.22	23.8
10	QPSK	25	12	23.30	23.30	23.20	
10	QPSK	25	25	23.28	23.26	23.15	
10	QPSK	50	0	23.30	23.37	23.24	23.8
10	16QAM	1	0	23.48	23.42	23.42	
10	16QAM	1	25	23.44	23.50	23.40	
10	16QAM	1	49	23.44	23.30	23.40	23.3
10	16QAM	25	0	22.31	22.22	22.32	
10	16QAM	25	12	22.39	22.18	22.20	
10	16QAM	25	25	22.27	22.24	22.15	23.3
10	16QAM	50	0	22.31	22.30	22.23	
10	64QAM	1	0	22.64	22.57	22.35	
10	64QAM	1	25	22.39	22.39	22.40	22.3
10	64QAM	1	49	22.35	22.32	22.29	
10	64QAM	25	0	21.30	21.26	21.23	
10	64QAM	25	12	21.33	21.22	21.12	20.3
10	64QAM	25	25	21.28	21.19	21.14	
10	64QAM	50	0	21.32	21.25	21.18	
10	256QAM	1	0	19.47	19.42	19.27	20.3
10	256QAM	1	25	19.07	19.16	18.96	
10	256QAM	1	49	19.06	19.23	18.96	
10	256QAM	25	0	19.21	19.24	18.96	20.3
10	256QAM	25	12	19.14	19.18	19.12	
10	256QAM	25	25	19.26	19.23	19.07	
10	256QAM	50	0	19.06	19.24	18.99	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.58	23.49	23.38	23.8
5	QPSK	1	12	23.39	23.46	23.17	
5	QPSK	1	24	23.28	23.35	23.26	
5	QPSK	12	0	23.21	23.29	23.21	23.8
5	QPSK	12	7	23.18	23.13	23.11	
5	QPSK	12	13	23.18	23.22	23.11	
5	QPSK	25	0	23.29	23.31	23.11	23.8
5	16QAM	1	0	23.31	23.28	23.36	
5	16QAM	1	12	23.36	23.34	23.21	
5	16QAM	1	24	23.28	23.23	23.21	23.3
5	16QAM	12	0	22.30	22.07	22.21	
5	16QAM	12	7	22.22	22.10	22.15	
5	16QAM	12	13	22.16	22.21	22.11	23.3
5	16QAM	25	0	22.14	22.11	22.05	
5	64QAM	1	0	22.44	22.43	22.31	
5	64QAM	1	12	22.21	22.35	22.28	22.3
5	64QAM	1	24	22.29	22.27	22.20	
5	64QAM	12	0	21.11	21.07	21.10	
5	64QAM	12	7	21.17	21.21	21.00	20.3
5	64QAM	12	13	21.25	21.06	21.10	
5	64QAM	25	0	21.24	21.21	21.04	
5	256QAM	1	0	19.40	19.37	19.07	20.3
5	256QAM	1	12	18.94	19.10	18.94	
5	256QAM	1	24	19.02	19.04	18.94	
5	256QAM	12	0	19.08	19.07	18.84	20.3
5	256QAM	12	7	19.12	19.15	19.05	
5	256QAM	12	13	19.10	19.03	19.06	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.03	19.13	18.89	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.56	23.40	23.24	23.8
3	QPSK	1	8	23.37	23.44	23.20	
3	QPSK	1	14	23.26	23.33	23.21	
3	QPSK	8	0	23.25	23.21	23.03	23.8
3	QPSK	8	4	23.22	23.26	23.16	
3	QPSK	8	7	23.22	23.13	23.14	
3	QPSK	15	0	23.14	23.24	23.23	23.8
3	16QAM	1	0	23.28	23.31	23.23	
3	16QAM	1	8	23.43	23.35	23.27	
3	16QAM	1	14	23.25	23.13	23.31	23.3
3	16QAM	8	0	22.22	22.16	22.23	
3	16QAM	8	4	22.38	22.04	22.16	
3	16QAM	8	7	22.15	22.04	22.11	23.3
3	16QAM	15	0	22.14	22.21	22.18	
3	64QAM	1	0	22.50	22.38	22.34	
3	64QAM	1	8	22.31	22.21	22.20	23.3
3	64QAM	1	14	22.19	22.14	22.18	
3	64QAM	8	0	21.26	21.26	21.21	22.3
3	64QAM	8	4	21.17	21.04	20.97	
3	64QAM	8	7	21.20	21.02	20.97	
3	64QAM	15	0	21.23	21.10	21.06	20.3
3	256QAM	1	0	19.43	19.37	19.11	
3	256QAM	1	8	19.06	19.08	18.80	
3	256QAM	1	14	18.88	19.21	18.85	20.3
3	256QAM	8	0	19.21	19.05	18.85	
3	256QAM	8	4	18.99	19.01	19.02	
3	256QAM	8	7	19.26	19.06	18.87	20.3
3	256QAM	15	0	18.94	19.09	18.96	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.47	23.33	23.38	23.8
1.4	QPSK	1	3	23.49	23.38	23.35	
1.4	QPSK	1	5	23.41	23.43	23.19	
1.4	QPSK	3	0	23.45	23.42	23.38	23.8
1.4	QPSK	3	1	23.42	23.42	23.30	
1.4	QPSK	3	3	23.27	23.28	23.26	
1.4	QPSK	6	0	23.34	23.16	23.05	23.8
1.4	16QAM	1	0	23.15	23.15	23.12	
1.4	16QAM	1	3	23.09	23.16	23.13	
1.4	16QAM	1	5	23.23	23.35	23.07	23.8
1.4	16QAM	3	0	23.44	23.32	23.41	
1.4	16QAM	3	1	23.35	23.49	23.33	
1.4	16QAM	3	3	23.25	23.14	23.23	23.3
1.4	16QAM	6	0	22.27	22.12	22.24	
1.4	64QAM	1	0	22.26	21.98	22.13	
1.4	64QAM	1	3	22.15	22.18	22.06	23.3
1.4	64QAM	1	5	22.14	22.23	22.19	
1.4	64QAM	3	0	22.61	22.38	22.23	
1.4	64QAM	3	1	22.31	22.37	22.36	22.3
1.4	64QAM	3	3	22.21	22.25	22.24	
1.4	64QAM	6	0	21.15	21.15	21.21	
1.4	256QAM	1	0	19.34	19.25	19.13	20.3
1.4	256QAM	1	3	18.87	19.02	18.93	
1.4	256QAM	1	5	18.98	19.07	18.96	
1.4	256QAM	3	0	19.16	19.17	18.95	20.3
1.4	256QAM	3	1	19.12	19.07	18.93	
1.4	256QAM	3	3	19.17	19.05	18.94	
1.4	256QAM	6	0	18.88	19.06	18.83	20.3



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	
5	QPSK	12	7	23.44	23.39	23.33	24.3
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	
5	16QAM	1	0	23.55	23.64	23.59	24.3
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	
5	16QAM	12	0	22.36	22.39	22.39	23.3
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	
5	16QAM	25	0	22.43	22.44	22.41	23.3
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	
5	64QAM	1	24	22.36	22.45	22.29	22.3
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	
5	64QAM	12	13	21.23	21.32	21.26	20.3
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	
5	256QAM	1	12	19.09	19.29	19.02	20.3
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	
5	256QAM	12	7	19.20	19.37	19.21	20.3
5	256QAM	12	13	19.16	19.29	19.13	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	
3	64QAM	8	4	21.40	21.28	21.27	22.3
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	
3	256QAM	1	0	19.41	19.59	19.56	20.3
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	
3	256QAM	8	0	19.42	19.43	19.50	20.3
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	
3	256QAM	15	0	19.37	19.34	19.38	Tune-up limit (dBm)
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	24.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.32	24.30	24.21	
10	QPSK	1	25	24.30	24.29	24.23	25.3
10	QPSK	1	49	24.24	24.22	24.08	
10	QPSK	25	0	23.35	23.30	23.25	
10	QPSK	25	12	23.28	23.27	23.21	24.3
10	QPSK	25	25	23.27	23.25	23.16	
10	QPSK	50	0	23.34	23.30	23.22	
10	16QAM	1	0	23.61	23.49	23.50	24.3
10	16QAM	1	25	23.40	23.42	23.53	
10	16QAM	1	49	23.37	23.37	23.21	
10	16QAM	25	0	22.34	22.30	22.21	23.3
10	16QAM	25	12	22.26	22.29	22.20	
10	16QAM	25	25	22.22	22.24	22.18	
10	16QAM	50	0	22.27	22.25	22.19	23.3
10	64QAM	1	0	22.52	22.57	22.47	
10	64QAM	1	25	22.51	22.47	22.41	
10	64QAM	1	49	22.37	22.31	22.18	22.3
10	64QAM	25	0	21.28	21.24	21.17	
10	64QAM	25	12	21.26	21.21	21.15	
10	64QAM	25	25	21.23	21.13	21.12	20.3
10	64QAM	50	0	21.30	21.27	21.17	
10	256QAM	1	0	19.48	19.43	19.38	
10	256QAM	1	25	19.27	19.23	19.14	20.3
10	256QAM	1	49	19.21	19.25	19.12	
10	256QAM	25	0	19.23	19.26	19.14	
10	256QAM	25	12	19.20	19.23	19.18	20.3
10	256QAM	25	25	19.31	19.31	19.21	
10	256QAM	50	0	19.26	19.24	19.17	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.23	24.28	24.15	
5	QPSK	1	12	24.19	24.26	24.10	25.3
5	QPSK	1	24	24.12	24.16	23.99	
5	QPSK	12	0	23.22	23.10	23.11	
5	QPSK	12	7	23.09	23.24	23.12	24.3
5	QPSK	12	13	23.08	23.09	22.97	
5	QPSK	25	0	23.33	23.21	23.11	
5	16QAM	1	0	23.61	23.36	23.34	24.3
5	16QAM	1	12	23.32	23.33	23.44	
5	16QAM	1	24	23.20	23.35	23.15	
5	16QAM	12	0	22.27	22.28	22.16	23.3
5	16QAM	12	7	22.16	22.16	22.01	
5	16QAM	12	13	22.10	22.24	22.11	
5	16QAM	25	0	22.23	22.17	22.08	23.3
5	64QAM	1	0	22.43	22.43	22.43	
5	64QAM	1	12	22.45	22.37	22.41	
5	64QAM	1	24	22.17	22.20	22.00	22.3
5	64QAM	12	0	21.27	21.04	21.01	
5	64QAM	12	7	21.11	21.11	21.15	
5	64QAM	12	13	21.03	21.07	20.96	20.3
5	64QAM	25	0	21.14	21.19	21.17	
5	256QAM	1	0	19.47	19.31	19.34	
5	256QAM	1	12	19.11	19.23	19.10	20.3
5	256QAM	1	24	19.09	19.06	19.03	
5	256QAM	12	0	19.04	19.08	18.97	
5	256QAM	12	7	19.02	19.03	19.17	20.3
5	256QAM	12	13	19.14	19.28	19.12	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.24	19.11	18.99	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.23	24.20	24.05	25.3
3	QPSK	1	8	24.23	24.28	24.07	
3	QPSK	1	14	24.19	24.16	23.94	
3	QPSK	8	0	23.32	23.26	23.07	24.3
3	QPSK	8	4	23.14	23.16	23.17	
3	QPSK	8	7	23.11	23.10	22.97	
3	QPSK	15	0	23.27	23.26	23.05	24.3
3	16QAM	1	0	23.56	23.31	23.34	
3	16QAM	1	8	23.20	23.29	23.49	
3	16QAM	1	14	23.35	23.25	23.21	23.3
3	16QAM	8	0	22.32	22.10	22.05	
3	16QAM	8	4	22.12	22.10	22.00	
3	16QAM	8	7	22.18	22.20	22.09	23.3
3	16QAM	15	0	22.09	22.15	22.00	
3	64QAM	1	0	22.33	22.48	22.46	
3	64QAM	1	8	22.36	22.43	22.29	23.3
3	64QAM	1	14	22.23	22.12	21.99	
3	64QAM	8	0	21.12	21.24	21.08	22.3
3	64QAM	8	4	21.20	21.13	21.12	
3	64QAM	8	7	21.08	20.99	21.05	
3	64QAM	15	0	21.21	21.15	21.17	20.3
3	256QAM	1	0	19.42	19.43	19.21	
3	256QAM	1	8	19.13	19.20	19.04	
3	256QAM	1	14	19.06	19.17	18.93	20.3
3	256QAM	8	0	19.18	19.25	18.97	
3	256QAM	8	4	19.08	19.04	19.15	
3	256QAM	8	7	19.22	19.20	19.03	20.3
3	256QAM	15	0	19.11	19.11	19.13	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.23	24.26	24.19	25.3
1.4	QPSK	1	3	24.24	24.20	24.11	
1.4	QPSK	1	5	24.12	24.09	23.98	
1.4	QPSK	3	0	24.21	24.16	24.04	24.3
1.4	QPSK	3	1	24.27	24.21	24.13	
1.4	QPSK	3	3	24.16	24.02	23.92	
1.4	QPSK	6	0	23.34	23.29	23.11	24.3
1.4	16QAM	1	0	23.17	23.16	23.21	
1.4	16QAM	1	3	23.13	23.18	23.07	
1.4	16QAM	1	5	23.34	23.15	23.02	23.3
1.4	16QAM	3	0	23.45	23.44	23.39	
1.4	16QAM	3	1	23.20	23.26	23.48	
1.4	16QAM	3	3	23.32	23.32	23.19	23.3
1.4	16QAM	6	0	22.32	22.25	22.11	
1.4	64QAM	1	0	22.25	22.14	22.17	
1.4	64QAM	1	3	22.02	22.17	22.14	23.3
1.4	64QAM	1	5	22.12	22.24	22.04	
1.4	64QAM	3	0	22.44	22.52	22.36	
1.4	64QAM	3	1	22.41	22.43	22.26	22.3
1.4	64QAM	3	3	22.33	22.18	22.09	
1.4	64QAM	6	0	21.21	21.04	21.09	
1.4	256QAM	1	0	19.48	19.24	19.34	20.3
1.4	256QAM	1	3	19.26	19.19	19.11	
1.4	256QAM	1	5	19.11	19.21	18.98	
1.4	256QAM	3	0	19.08	19.19	19.02	20.3
1.4	256QAM	3	1	19.07	19.11	18.98	
1.4	256QAM	3	3	19.27	19.14	19.01	
1.4	256QAM	6	0	19.22	19.19	19.06	20.3



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	
5	QPSK	12	7	23.44	23.39	23.33	24.3
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	
5	16QAM	1	0	23.55	23.64	23.59	24.3
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	
5	16QAM	12	0	22.36	22.39	22.39	23.3
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	
5	16QAM	25	0	22.43	22.44	22.41	23.3
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	
5	64QAM	1	24	22.36	22.45	22.29	22.3
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	
5	64QAM	12	13	21.23	21.32	21.26	20.3
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	
5	256QAM	1	12	19.09	19.29	19.02	20.3
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	
5	256QAM	12	7	19.20	19.37	19.21	20.3
5	256QAM	12	13	19.16	19.29	19.13	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	22.3
3	64QAM	8	4	21.40	21.28	21.27	
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	20.3
3	256QAM	1	0	19.41	19.59	19.56	
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	20.3
3	256QAM	8	0	19.42	19.43	19.50	
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	20.3
3	256QAM	15	0	19.37	19.34	19.38	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.32	24.30	24.21	
10	QPSK	1	25	24.30	24.29	24.23	25.3
10	QPSK	1	49	24.24	24.22	24.08	
10	QPSK	25	0	23.35	23.30	23.25	
10	QPSK	25	12	23.28	23.27	23.21	24.3
10	QPSK	25	25	23.27	23.25	23.16	
10	QPSK	50	0	23.34	23.30	23.22	
10	16QAM	1	0	23.61	23.49	23.50	24.3
10	16QAM	1	25	23.40	23.42	23.53	
10	16QAM	1	49	23.37	23.37	23.21	
10	16QAM	25	0	22.34	22.30	22.21	23.3
10	16QAM	25	12	22.26	22.29	22.20	
10	16QAM	25	25	22.22	22.24	22.18	
10	16QAM	50	0	22.27	22.25	22.19	23.3
10	64QAM	1	0	22.52	22.57	22.47	
10	64QAM	1	25	22.51	22.47	22.41	
10	64QAM	1	49	22.37	22.31	22.18	22.3
10	64QAM	25	0	21.28	21.24	21.17	
10	64QAM	25	12	21.26	21.21	21.15	
10	64QAM	25	25	21.23	21.13	21.12	20.3
10	64QAM	50	0	21.30	21.27	21.17	
10	256QAM	1	0	19.48	19.43	19.38	
10	256QAM	1	25	19.27	19.23	19.14	20.3
10	256QAM	1	49	19.21	19.25	19.12	
10	256QAM	25	0	19.23	19.26	19.14	
10	256QAM	25	12	19.20	19.23	19.18	20.3
10	256QAM	25	25	19.31	19.31	19.21	
10	256QAM	50	0	19.26	19.24	19.17	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.23	24.28	24.15	
5	QPSK	1	12	24.19	24.26	24.10	25.3
5	QPSK	1	24	24.12	24.16	23.99	
5	QPSK	12	0	23.22	23.10	23.11	
5	QPSK	12	7	23.09	23.24	23.12	24.3
5	QPSK	12	13	23.08	23.09	22.97	
5	QPSK	25	0	23.33	23.21	23.11	
5	16QAM	1	0	23.61	23.36	23.34	24.3
5	16QAM	1	12	23.32	23.33	23.44	
5	16QAM	1	24	23.20	23.35	23.15	
5	16QAM	12	0	22.27	22.28	22.16	23.3
5	16QAM	12	7	22.16	22.16	22.01	
5	16QAM	12	13	22.10	22.24	22.11	
5	16QAM	25	0	22.23	22.17	22.08	23.3
5	64QAM	1	0	22.43	22.43	22.43	
5	64QAM	1	12	22.45	22.37	22.41	
5	64QAM	1	24	22.17	22.20	22.00	22.3
5	64QAM	12	0	21.27	21.04	21.01	
5	64QAM	12	7	21.11	21.11	21.15	
5	64QAM	12	13	21.03	21.07	20.96	20.3
5	64QAM	25	0	21.14	21.19	21.17	
5	256QAM	1	0	19.47	19.31	19.34	
5	256QAM	1	12	19.11	19.23	19.10	20.3
5	256QAM	1	24	19.09	19.06	19.03	
5	256QAM	12	0	19.04	19.08	18.97	
5	256QAM	12	7	19.02	19.03	19.17	20.3
5	256QAM	12	13	19.14	19.28	19.12	



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Report No. : FA4N0920C

5	256QAM	25	0	19.24	19.11	18.99	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.23	24.20	24.05	25.3
3	QPSK	1	8	24.23	24.28	24.07	
3	QPSK	1	14	24.19	24.16	23.94	
3	QPSK	8	0	23.32	23.26	23.07	24.3
3	QPSK	8	4	23.14	23.16	23.17	
3	QPSK	8	7	23.11	23.10	22.97	
3	QPSK	15	0	23.27	23.26	23.05	24.3
3	16QAM	1	0	23.56	23.31	23.34	
3	16QAM	1	8	23.20	23.29	23.49	
3	16QAM	1	14	23.35	23.25	23.21	23.3
3	16QAM	8	0	22.32	22.10	22.05	
3	16QAM	8	4	22.12	22.10	22.00	
3	16QAM	8	7	22.18	22.20	22.09	23.3
3	16QAM	15	0	22.09	22.15	22.00	
3	64QAM	1	0	22.33	22.48	22.46	
3	64QAM	1	8	22.36	22.43	22.29	23.3
3	64QAM	1	14	22.23	22.12	21.99	
3	64QAM	8	0	21.12	21.24	21.08	22.3
3	64QAM	8	4	21.20	21.13	21.12	
3	64QAM	8	7	21.08	20.99	21.05	
3	64QAM	15	0	21.21	21.15	21.17	20.3
3	256QAM	1	0	19.42	19.43	19.21	
3	256QAM	1	8	19.13	19.20	19.04	
3	256QAM	1	14	19.06	19.17	18.93	20.3
3	256QAM	8	0	19.18	19.25	18.97	
3	256QAM	8	4	19.08	19.04	19.15	
3	256QAM	8	7	19.22	19.20	19.03	20.3
3	256QAM	15	0	19.11	19.11	19.13	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.23	24.26	24.19	25.3
1.4	QPSK	1	3	24.24	24.20	24.11	
1.4	QPSK	1	5	24.12	24.09	23.98	
1.4	QPSK	3	0	24.21	24.16	24.04	24.3
1.4	QPSK	3	1	24.27	24.21	24.13	
1.4	QPSK	3	3	24.16	24.02	23.92	
1.4	QPSK	6	0	23.34	23.29	23.11	24.3
1.4	16QAM	1	0	23.17	23.16	23.21	
1.4	16QAM	1	3	23.13	23.18	23.07	
1.4	16QAM	1	5	23.34	23.15	23.02	23.3
1.4	16QAM	3	0	23.45	23.44	23.39	
1.4	16QAM	3	1	23.20	23.26	23.48	
1.4	16QAM	3	3	23.32	23.32	23.19	23.3
1.4	16QAM	6	0	22.32	22.25	22.11	
1.4	64QAM	1	0	22.25	22.14	22.17	
1.4	64QAM	1	3	22.02	22.17	22.14	23.3
1.4	64QAM	1	5	22.12	22.24	22.04	
1.4	64QAM	3	0	22.44	22.52	22.36	
1.4	64QAM	3	1	22.41	22.43	22.26	22.3
1.4	64QAM	3	3	22.33	22.18	22.09	
1.4	64QAM	6	0	21.21	21.04	21.09	
1.4	256QAM	1	0	19.48	19.24	19.34	20.3
1.4	256QAM	1	3	19.26	19.19	19.11	
1.4	256QAM	1	5	19.11	19.21	18.98	
1.4	256QAM	3	0	19.08	19.19	19.02	20.3
1.4	256QAM	3	1	19.07	19.11	18.98	
1.4	256QAM	3	3	19.27	19.14	19.01	
1.4	256QAM	6	0	19.22	19.19	19.06	20.3



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.48	24.53	24.45	
10	QPSK	1	25	24.44	24.52	24.42	25.3
10	QPSK	1	49	24.43	24.44	24.32	
10	QPSK	25	0	23.53	23.55	23.50	
10	QPSK	25	12	23.48	23.51	23.46	24.3
10	QPSK	25	25	23.49	23.50	23.41	
10	QPSK	50	0	23.47	23.54	23.44	
10	16QAM	1	0	23.64	23.72	23.79	24.3
10	16QAM	1	25	23.71	23.68	23.59	
10	16QAM	1	49	23.64	23.69	23.43	
10	16QAM	25	0	22.51	22.51	22.47	23.3
10	16QAM	25	12	22.52	22.50	22.42	
10	16QAM	25	25	22.44	22.46	22.38	
10	16QAM	50	0	22.45	22.49	22.42	23.3
10	64QAM	1	0	22.62	22.66	22.61	
10	64QAM	1	25	22.59	22.71	22.73	
10	64QAM	1	49	22.44	22.51	22.39	22.3
10	64QAM	25	0	21.44	21.44	21.41	
10	64QAM	25	12	21.44	21.41	21.40	
10	64QAM	25	25	21.37	21.41	21.33	20.3
10	64QAM	50	0	21.48	21.49	21.43	
10	256QAM	1	0	19.61	19.59	19.57	
10	256QAM	1	25	19.25	19.31	19.21	20.3
10	256QAM	1	49	19.40	19.39	19.30	
10	256QAM	25	0	19.59	19.60	19.55	
10	256QAM	25	12	19.40	19.40	19.38	20.3
10	256QAM	25	25	19.29	19.33	19.26	
10	256QAM	50	0	19.45	19.49	19.47	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.31	24.36	24.43	
5	QPSK	1	12	24.26	24.52	24.39	25.3
5	QPSK	1	24	24.43	24.32	24.27	
5	QPSK	12	0	23.40	23.54	23.31	
5	QPSK	12	7	23.44	23.39	23.33	24.3
5	QPSK	12	13	23.46	23.39	23.24	
5	QPSK	25	0	23.33	23.38	23.34	
5	16QAM	1	0	23.55	23.64	23.59	24.3
5	16QAM	1	12	23.59	23.67	23.56	
5	16QAM	1	24	23.55	23.58	23.38	
5	16QAM	12	0	22.36	22.39	22.39	23.3
5	16QAM	12	7	22.40	22.38	22.31	
5	16QAM	12	13	22.37	22.43	22.24	
5	16QAM	25	0	22.43	22.44	22.41	23.3
5	64QAM	1	0	22.52	22.59	22.46	
5	64QAM	1	12	22.57	22.63	22.73	
5	64QAM	1	24	22.36	22.45	22.29	22.3
5	64QAM	12	0	21.35	21.44	21.39	
5	64QAM	12	7	21.29	21.21	21.35	
5	64QAM	12	13	21.23	21.32	21.26	20.3
5	64QAM	25	0	21.42	21.46	21.39	
5	256QAM	1	0	19.50	19.48	19.39	
5	256QAM	1	12	19.09	19.29	19.02	20.3
5	256QAM	1	24	19.29	19.27	19.24	
5	256QAM	12	0	19.40	19.53	19.53	
5	256QAM	12	7	19.20	19.37	19.21	20.3
5	256QAM	12	13	19.16	19.29	19.13	



FCC SAR TEST REPORT

Report No. : FA4N0920C

5	256QAM	25	0	19.33	19.29	19.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.39	24.47	24.30	25.3
3	QPSK	1	8	24.35	24.35	24.37	
3	QPSK	1	14	24.32	24.27	24.23	
3	QPSK	8	0	23.50	23.54	23.30	24.3
3	QPSK	8	4	23.30	23.49	23.31	
3	QPSK	8	7	23.40	23.38	23.36	
3	QPSK	15	0	23.31	23.51	23.37	24.3
3	16QAM	1	0	23.52	23.55	23.59	
3	16QAM	1	8	23.58	23.53	23.43	
3	16QAM	1	14	23.64	23.55	23.23	23.3
3	16QAM	8	0	22.35	22.50	22.34	
3	16QAM	8	4	22.51	22.30	22.38	
3	16QAM	8	7	22.26	22.27	22.26	23.3
3	16QAM	15	0	22.28	22.31	22.35	
3	64QAM	1	0	22.54	22.59	22.45	
3	64QAM	1	8	22.59	22.53	22.55	23.3
3	64QAM	1	14	22.43	22.36	22.26	
3	64QAM	8	0	21.28	21.34	21.36	22.3
3	64QAM	8	4	21.40	21.28	21.27	
3	64QAM	8	7	21.23	21.23	21.16	
3	64QAM	15	0	21.32	21.43	21.36	20.3
3	256QAM	1	0	19.41	19.59	19.56	
3	256QAM	1	8	19.18	19.24	19.19	
3	256QAM	1	14	19.27	19.35	19.26	20.3
3	256QAM	8	0	19.42	19.43	19.50	
3	256QAM	8	4	19.21	19.27	19.36	
3	256QAM	8	7	19.20	19.19	19.08	20.3
3	256QAM	15	0	19.37	19.34	19.38	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.36	24.51	24.25	25.3
1.4	QPSK	1	3	24.40	24.51	24.27	
1.4	QPSK	1	5	24.38	24.40	24.21	
1.4	QPSK	3	0	24.35	24.50	24.26	24.3
1.4	QPSK	3	1	24.27	24.33	24.25	
1.4	QPSK	3	3	24.26	24.38	24.28	
1.4	QPSK	6	0	23.39	23.53	23.37	24.3
1.4	16QAM	1	0	23.42	23.50	23.39	
1.4	16QAM	1	3	23.39	23.47	23.23	
1.4	16QAM	1	5	23.33	23.34	23.28	23.3
1.4	16QAM	3	0	23.44	23.69	23.59	
1.4	16QAM	3	1	23.58	23.62	23.39	
1.4	16QAM	3	3	23.52	23.57	23.27	23.3
1.4	16QAM	6	0	22.36	22.35	22.29	
1.4	64QAM	1	0	22.32	22.43	22.27	
1.4	64QAM	1	3	22.40	22.38	22.23	23.3
1.4	64QAM	1	5	22.34	22.42	22.40	
1.4	64QAM	3	0	22.62	22.51	22.53	
1.4	64QAM	3	1	22.58	22.53	22.62	22.3
1.4	64QAM	3	3	22.32	22.40	22.27	
1.4	64QAM	6	0	21.42	21.37	21.27	
1.4	256QAM	1	0	19.58	19.58	19.48	20.3
1.4	256QAM	1	3	19.05	19.23	19.15	
1.4	256QAM	1	5	19.26	19.21	19.24	
1.4	256QAM	3	0	19.47	19.49	19.45	20.3
1.4	256QAM	3	1	19.27	19.26	19.29	
1.4	256QAM	3	3	19.20	19.30	19.16	
1.4	256QAM	6	0	19.29	19.35	19.27	20.3



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.32	24.30	24.21	
10	QPSK	1	25	24.30	24.29	24.23	25.3
10	QPSK	1	49	24.24	24.22	24.08	
10	QPSK	25	0	23.35	23.30	23.25	
10	QPSK	25	12	23.28	23.27	23.21	24.3
10	QPSK	25	25	23.27	23.25	23.16	
10	QPSK	50	0	23.34	23.30	23.22	
10	16QAM	1	0	23.61	23.49	23.50	24.3
10	16QAM	1	25	23.40	23.42	23.53	
10	16QAM	1	49	23.37	23.37	23.21	
10	16QAM	25	0	22.34	22.30	22.21	23.3
10	16QAM	25	12	22.26	22.29	22.20	
10	16QAM	25	25	22.22	22.24	22.18	
10	16QAM	50	0	22.27	22.25	22.19	23.3
10	64QAM	1	0	22.52	22.57	22.47	
10	64QAM	1	25	22.51	22.47	22.41	
10	64QAM	1	49	22.37	22.31	22.18	22.3
10	64QAM	25	0	21.28	21.24	21.17	
10	64QAM	25	12	21.26	21.21	21.15	
10	64QAM	25	25	21.23	21.13	21.12	20.3
10	64QAM	50	0	21.30	21.27	21.17	
10	256QAM	1	0	19.48	19.43	19.38	
10	256QAM	1	25	19.27	19.23	19.14	20.3
10	256QAM	1	49	19.21	19.25	19.12	
10	256QAM	25	0	19.23	19.26	19.14	
10	256QAM	25	12	19.20	19.23	19.18	20.3
10	256QAM	25	25	19.31	19.31	19.21	
10	256QAM	50	0	19.26	19.24	19.17	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.23	24.28	24.15	
5	QPSK	1	12	24.19	24.26	24.10	25.3
5	QPSK	1	24	24.12	24.16	23.99	
5	QPSK	12	0	23.22	23.10	23.11	
5	QPSK	12	7	23.09	23.24	23.12	24.3
5	QPSK	12	13	23.08	23.09	22.97	
5	QPSK	25	0	23.33	23.21	23.11	
5	16QAM	1	0	23.61	23.36	23.34	24.3
5	16QAM	1	12	23.32	23.33	23.44	
5	16QAM	1	24	23.20	23.35	23.15	
5	16QAM	12	0	22.27	22.28	22.16	23.3
5	16QAM	12	7	22.16	22.16	22.01	
5	16QAM	12	13	22.10	22.24	22.11	
5	16QAM	25	0	22.23	22.17	22.08	23.3
5	64QAM	1	0	22.43	22.43	22.43	
5	64QAM	1	12	22.45	22.37	22.41	
5	64QAM	1	24	22.17	22.20	22.00	22.3
5	64QAM	12	0	21.27	21.04	21.01	
5	64QAM	12	7	21.11	21.11	21.15	
5	64QAM	12	13	21.03	21.07	20.96	20.3
5	64QAM	25	0	21.14	21.19	21.17	
5	256QAM	1	0	19.47	19.31	19.34	
5	256QAM	1	12	19.11	19.23	19.10	20.3
5	256QAM	1	24	19.09	19.06	19.03	
5	256QAM	12	0	19.04	19.08	18.97	
5	256QAM	12	7	19.02	19.03	19.17	20.3
5	256QAM	12	13	19.14	19.28	19.12	



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5	256QAM	25	0	19.24	19.11	18.99	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.23	24.20	24.05	25.3
3	QPSK	1	8	24.23	24.28	24.07	
3	QPSK	1	14	24.19	24.16	23.94	
3	QPSK	8	0	23.32	23.26	23.07	24.3
3	QPSK	8	4	23.14	23.16	23.17	
3	QPSK	8	7	23.11	23.10	22.97	
3	QPSK	15	0	23.27	23.26	23.05	24.3
3	16QAM	1	0	23.56	23.31	23.34	
3	16QAM	1	8	23.20	23.29	23.49	
3	16QAM	1	14	23.35	23.25	23.21	23.3
3	16QAM	8	0	22.32	22.10	22.05	
3	16QAM	8	4	22.12	22.10	22.00	
3	16QAM	8	7	22.18	22.20	22.09	23.3
3	16QAM	15	0	22.09	22.15	22.00	
3	64QAM	1	0	22.33	22.48	22.46	
3	64QAM	1	8	22.36	22.43	22.29	23.3
3	64QAM	1	14	22.23	22.12	21.99	
3	64QAM	8	0	21.12	21.24	21.08	22.3
3	64QAM	8	4	21.20	21.13	21.12	
3	64QAM	8	7	21.08	20.99	21.05	
3	64QAM	15	0	21.21	21.15	21.17	20.3
3	256QAM	1	0	19.42	19.43	19.21	
3	256QAM	1	8	19.13	19.20	19.04	
3	256QAM	1	14	19.06	19.17	18.93	20.3
3	256QAM	8	0	19.18	19.25	18.97	
3	256QAM	8	4	19.08	19.04	19.15	
3	256QAM	8	7	19.22	19.20	19.03	20.3
3	256QAM	15	0	19.11	19.11	19.13	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.23	24.26	24.19	25.3
1.4	QPSK	1	3	24.24	24.20	24.11	
1.4	QPSK	1	5	24.12	24.09	23.98	
1.4	QPSK	3	0	24.21	24.16	24.04	24.3
1.4	QPSK	3	1	24.27	24.21	24.13	
1.4	QPSK	3	3	24.16	24.02	23.92	
1.4	QPSK	6	0	23.34	23.29	23.11	24.3
1.4	16QAM	1	0	23.17	23.16	23.21	
1.4	16QAM	1	3	23.13	23.18	23.07	
1.4	16QAM	1	5	23.34	23.15	23.02	23.3
1.4	16QAM	3	0	23.45	23.44	23.39	
1.4	16QAM	3	1	23.20	23.26	23.48	
1.4	16QAM	3	3	23.32	23.32	23.19	23.3
1.4	16QAM	6	0	22.32	22.25	22.11	
1.4	64QAM	1	0	22.25	22.14	22.17	
1.4	64QAM	1	3	22.02	22.17	22.14	23.3
1.4	64QAM	1	5	22.12	22.24	22.04	
1.4	64QAM	3	0	22.44	22.52	22.36	
1.4	64QAM	3	1	22.41	22.43	22.26	22.3
1.4	64QAM	3	3	22.33	22.18	22.09	
1.4	64QAM	6	0	21.21	21.04	21.09	
1.4	256QAM	1	0	19.48	19.24	19.34	20.3
1.4	256QAM	1	3	19.26	19.19	19.11	
1.4	256QAM	1	5	19.11	19.21	18.98	
1.4	256QAM	3	0	19.08	19.19	19.02	20.3
1.4	256QAM	3	1	19.07	19.11	18.98	
1.4	256QAM	3	3	19.27	19.14	19.01	
1.4	256QAM	6	0	19.22	19.19	19.06	20.3

**<LTE Band 7_Ant 2_Index 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.03	24.17	24.29	
20	QPSK	1	49	23.93	24.04	24.06	25
20	QPSK	1	99	24.08	24.17	24.19	
20	QPSK	50	0	23.11	23.23	23.24	
20	QPSK	50	24	23.05	23.17	23.21	24
20	QPSK	50	50	23.04	23.22	23.19	
20	QPSK	100	0	23.13	23.21	23.22	
20	16QAM	1	0	23.34	23.39	23.58	24
20	16QAM	1	49	23.38	23.51	23.57	
20	16QAM	1	99	23.38	23.58	23.45	
20	16QAM	50	0	22.09	22.23	22.26	23
20	16QAM	50	24	22.09	22.23	22.24	
20	16QAM	50	50	22.09	22.19	22.22	
20	16QAM	100	0	22.09	22.21	22.30	23
20	64QAM	1	0	22.28	22.48	22.53	
20	64QAM	1	49	22.12	22.23	22.25	
20	64QAM	1	99	22.25	22.26	22.31	22
20	64QAM	50	0	21.09	21.23	21.20	
20	64QAM	50	24	21.09	21.16	21.22	
20	64QAM	50	50	21.04	21.18	21.17	20
20	64QAM	100	0	21.04	21.13	21.15	
20	256QAM	1	0	19.17	19.42	19.46	
20	256QAM	1	49	18.84	19.12	19.07	20
20	256QAM	1	99	19.01	19.26	19.29	
20	256QAM	50	0	18.85	19.20	19.19	20
20	256QAM	50	24	18.92	19.24	19.24	
20	256QAM	50	50	18.86	19.18	19.13	
20	256QAM	100	0	18.86	19.20	19.21	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.94	24.05	24.13	
15	QPSK	1	37	23.74	23.92	23.99	25
15	QPSK	1	74	23.96	23.99	24.02	
15	QPSK	36	0	23.07	23.17	23.14	24
15	QPSK	36	20	22.96	23.05	23.16	
15	QPSK	36	39	22.89	23.08	23.15	
15	QPSK	75	0	23.00	23.11	23.10	24
15	16QAM	1	0	23.21	23.33	23.51	
15	16QAM	1	37	23.19	23.37	23.40	
15	16QAM	1	74	23.18	23.58	23.34	23
15	16QAM	36	0	22.02	22.05	22.14	
15	16QAM	36	20	22.06	22.05	22.18	
15	16QAM	36	39	22.02	22.07	22.14	23
15	16QAM	75	0	21.90	22.09	22.26	
15	64QAM	1	0	22.14	22.37	22.43	
15	64QAM	1	37	21.97	22.06	22.24	22
15	64QAM	1	74	22.11	22.20	22.14	
15	64QAM	36	0	20.94	21.13	21.08	
15	64QAM	36	20	20.97	21.05	21.10	20
15	64QAM	36	39	20.95	20.99	21.02	
15	64QAM	75	0	20.96	20.97	21.03	
15	256QAM	1	0	19.02	19.29	19.33	20
15	256QAM	1	37	18.75	18.98	19.06	
15	256QAM	1	74	19.00	19.16	19.29	
15	256QAM	36	0	18.79	19.16	19.11	20
15	256QAM	36	20	18.77	19.12	19.10	



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15	256QAM	36	39	18.70	19.17	19.09	Tune-up limit (dBm)
15	256QAM	75	0	18.77	19.05	19.08	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	24.03	23.98	24.19	25
10	QPSK	1	25	23.89	23.87	23.99	
10	QPSK	1	49	24.00	23.99	24.00	
10	QPSK	25	0	23.02	23.18	23.06	24
10	QPSK	25	12	22.90	22.99	23.21	
10	QPSK	25	25	22.99	23.19	23.08	
10	QPSK	50	0	22.99	23.04	23.19	
10	16QAM	1	0	23.27	23.22	23.38	24
10	16QAM	1	25	23.27	23.40	23.54	
10	16QAM	1	49	23.32	23.55	23.42	23
10	16QAM	25	0	22.04	22.13	22.15	
10	16QAM	25	12	22.08	22.21	22.07	
10	16QAM	25	25	22.00	22.19	22.03	
10	16QAM	50	0	22.01	22.09	22.18	23
10	64QAM	1	0	22.14	22.45	22.34	
10	64QAM	1	25	22.10	22.13	22.20	
10	64QAM	1	49	22.11	22.18	22.17	
10	64QAM	25	0	21.02	21.08	21.13	22
10	64QAM	25	12	20.94	21.10	21.18	
10	64QAM	25	25	20.92	21.02	21.17	
10	64QAM	50	0	20.86	21.06	21.04	
10	256QAM	1	0	19.09	19.28	19.43	20
10	256QAM	1	25	18.83	19.12	18.97	
10	256QAM	1	49	18.89	19.17	19.25	
10	256QAM	25	0	18.72	19.19	18.99	
10	256QAM	25	12	18.75	19.21	19.19	20
10	256QAM	25	25	18.70	19.05	19.00	
10	256QAM	50	0	18.68	19.10	19.09	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.87	23.99	24.09	25
5	QPSK	1	12	23.88	24.03	23.94	
5	QPSK	1	24	23.99	24.15	24.10	
5	QPSK	12	0	22.91	23.23	23.20	24
5	QPSK	12	7	23.05	23.03	23.02	
5	QPSK	12	13	22.90	23.20	23.19	
5	QPSK	25	0	22.98	23.01	23.05	
5	16QAM	1	0	23.27	23.32	23.39	24
5	16QAM	1	12	23.19	23.31	23.45	
5	16QAM	1	24	23.19	23.38	23.43	
5	16QAM	12	0	22.03	22.03	22.25	
5	16QAM	12	7	21.90	22.03	22.23	23
5	16QAM	12	13	21.91	22.07	22.21	
5	16QAM	25	0	22.06	22.19	22.24	
5	64QAM	1	0	22.09	22.31	22.34	
5	64QAM	1	12	22.00	22.13	22.25	23
5	64QAM	1	24	22.16	22.23	22.29	
5	64QAM	12	0	20.95	21.15	21.05	
5	64QAM	12	7	21.01	21.12	21.06	
5	64QAM	12	13	20.85	21.10	21.06	22
5	64QAM	25	0	20.88	21.09	21.11	
5	256QAM	1	0	19.07	19.24	19.37	
5	256QAM	1	12	18.66	19.00	19.05	
5	256QAM	1	24	18.88	19.12	19.11	20
5	256QAM	12	0	18.69	19.05	19.09	
5	256QAM	12	7	18.92	19.10	19.10	
5	256QAM	12	13	18.82	18.99	18.99	
5	256QAM	25	0	18.78	19.04	19.11	



<LTE Band 7_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.89	23.65	23.53	
20	QPSK	1	49	23.64	23.51	23.47	24.7
20	QPSK	1	99	23.58	23.43	23.42	
20	QPSK	50	0	23.31	23.24	23.19	
20	QPSK	50	24	23.34	23.09	23.05	24
20	QPSK	50	50	23.25	23.04	23.12	
20	QPSK	100	0	23.28	23.19	23.15	
20	16QAM	1	0	23.44	23.18	23.20	24
20	16QAM	1	49	23.52	23.53	23.01	
20	16QAM	1	99	23.28	23.27	23.32	
20	16QAM	50	0	22.22	21.98	22.17	23
20	16QAM	50	24	22.30	22.06	21.98	
20	16QAM	50	50	22.32	22.00	22.02	
20	16QAM	100	0	22.27	22.10	22.10	23
20	64QAM	1	0	22.44	22.65	22.47	
20	64QAM	1	49	22.34	22.25	22.33	
20	64QAM	1	99	22.60	22.28	22.35	22
20	64QAM	50	0	21.32	21.21	21.06	
20	64QAM	50	24	21.32	21.20	21.15	
20	64QAM	50	50	21.39	21.13	21.14	20
20	64QAM	100	0	21.26	21.15	21.22	
20	256QAM	1	0	19.30	19.35	19.30	
20	256QAM	1	49	19.22	19.28	19.16	20
20	256QAM	1	99	19.08	19.15	19.12	
20	256QAM	50	0	19.13	19.14	19.06	
20	256QAM	50	24	18.92	19.08	19.04	20
20	256QAM	50	50	19.03	19.11	18.98	
20	256QAM	100	0	19.01	19.10	19.02	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.69	23.49	23.28	
15	QPSK	1	37	23.56	23.33	23.39	24.7
15	QPSK	1	74	23.40	23.26	23.26	
15	QPSK	36	0	23.26	23.19	23.11	
15	QPSK	36	20	23.20	23.02	22.85	24
15	QPSK	36	39	23.08	22.86	22.92	
15	QPSK	75	0	23.09	23.09	22.96	
15	16QAM	1	0	23.23	22.97	23.03	24
15	16QAM	1	37	23.28	23.45	22.94	
15	16QAM	1	74	23.15	23.12	23.25	
15	16QAM	36	0	21.99	21.74	21.95	23
15	16QAM	36	20	22.18	21.88	21.84	
15	16QAM	36	39	22.10	21.88	21.79	
15	16QAM	75	0	22.13	21.85	21.88	23
15	64QAM	1	0	22.38	22.53	22.36	
15	64QAM	1	37	22.23	22.12	22.10	
15	64QAM	1	74	22.48	22.18	22.23	22
15	64QAM	36	0	21.07	20.98	20.86	
15	64QAM	36	20	21.27	21.15	21.02	
15	64QAM	36	39	21.23	20.88	20.91	20
15	64QAM	75	0	21.15	21.01	21.05	
15	256QAM	1	0	19.17	19.21	19.18	
15	256QAM	1	37	19.02	19.10	19.06	20
15	256QAM	1	74	18.99	19.09	18.91	
15	256QAM	36	0	19.07	18.95	18.96	
15	256QAM	36	20	18.67	18.95	18.95	20
15	256QAM	36	39	18.93	18.96	18.76	



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15	256QAM	75	0	18.91	18.93	18.78	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.59	23.42	23.32	24.7
10	QPSK	1	25	23.41	23.42	23.31	
10	QPSK	1	49	23.53	23.18	23.27	
10	QPSK	25	0	23.06	22.99	22.96	24
10	QPSK	25	12	23.21	22.99	22.96	
10	QPSK	25	25	23.11	22.88	22.97	
10	QPSK	50	0	23.19	23.05	23.04	
10	16QAM	1	0	23.30	23.08	22.96	24
10	16QAM	1	25	23.41	23.42	22.87	
10	16QAM	1	49	23.23	23.04	23.19	
10	16QAM	25	0	22.08	21.87	21.94	23
10	16QAM	25	12	22.13	21.92	21.89	
10	16QAM	25	25	22.11	21.80	21.91	
10	16QAM	50	0	22.19	22.02	22.00	
10	64QAM	1	0	22.37	22.58	22.29	23
10	64QAM	1	25	22.10	22.17	22.21	
10	64QAM	1	49	22.37	22.15	22.12	
10	64QAM	25	0	21.13	21.00	20.82	22
10	64QAM	25	12	21.16	21.13	21.04	
10	64QAM	25	25	21.19	21.03	20.99	
10	64QAM	50	0	21.18	20.94	21.00	
10	256QAM	1	0	19.09	19.29	19.19	20
10	256QAM	1	25	19.08	19.15	19.06	
10	256QAM	1	49	18.98	18.97	18.87	
10	256QAM	25	0	18.93	19.02	18.99	20
10	256QAM	25	12	18.80	18.89	18.97	
10	256QAM	25	25	18.89	18.88	18.74	
10	256QAM	50	0	18.77	18.92	18.95	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.73	23.46	23.45	24.7
5	QPSK	1	12	23.39	23.27	23.26	
5	QPSK	1	24	23.45	23.24	23.33	
5	QPSK	12	0	23.19	23.13	23.11	24
5	QPSK	12	7	23.10	22.94	22.80	
5	QPSK	12	13	23.17	22.83	22.98	
5	QPSK	25	0	23.08	22.98	23.02	
5	16QAM	1	0	23.34	23.11	23.13	24
5	16QAM	1	12	23.32	23.38	22.81	
5	16QAM	1	24	23.21	23.09	23.13	
5	16QAM	12	0	22.05	21.74	22.08	23
5	16QAM	12	7	22.18	21.92	21.81	
5	16QAM	12	13	22.09	21.78	21.82	
5	16QAM	25	0	22.10	21.90	21.92	
5	64QAM	1	0	22.19	22.41	22.35	23
5	64QAM	1	12	22.11	22.20	22.18	
5	64QAM	1	24	22.42	22.11	22.13	
5	64QAM	12	0	21.18	21.08	20.82	22
5	64QAM	12	7	21.26	21.12	20.99	
5	64QAM	12	13	21.30	21.00	20.93	
5	64QAM	25	0	21.18	21.03	21.16	
5	256QAM	1	0	19.09	19.29	19.09	20
5	256QAM	1	12	19.07	19.19	19.10	
5	256QAM	1	24	18.94	18.98	18.94	
5	256QAM	12	0	18.89	19.00	18.99	20
5	256QAM	12	7	18.72	19.00	18.96	
5	256QAM	12	13	18.91	18.97	18.87	
5	256QAM	25	0	18.89	18.89	18.84	



<LTE Band 7_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.03	24.17	24.29	
20	QPSK	1	49	23.93	24.04	24.06	25
20	QPSK	1	99	24.08	24.17	24.19	
20	QPSK	50	0	23.11	23.23	23.24	
20	QPSK	50	24	23.05	23.17	23.21	24
20	QPSK	50	50	23.04	23.22	23.19	
20	QPSK	100	0	23.13	23.21	23.22	
20	16QAM	1	0	23.34	23.39	23.58	24
20	16QAM	1	49	23.38	23.51	23.57	
20	16QAM	1	99	23.38	23.58	23.45	
20	16QAM	50	0	22.09	22.23	22.26	23
20	16QAM	50	24	22.09	22.23	22.24	
20	16QAM	50	50	22.09	22.19	22.22	
20	16QAM	100	0	22.09	22.21	22.30	23
20	64QAM	1	0	22.28	22.48	22.53	
20	64QAM	1	49	22.12	22.23	22.25	
20	64QAM	1	99	22.25	22.26	22.31	22
20	64QAM	50	0	21.09	21.23	21.20	
20	64QAM	50	24	21.09	21.16	21.22	
20	64QAM	50	50	21.04	21.18	21.17	20
20	64QAM	100	0	21.04	21.13	21.15	
20	256QAM	1	0	19.17	19.42	19.46	
20	256QAM	1	49	18.84	19.12	19.07	20
20	256QAM	1	99	19.01	19.26	19.29	
20	256QAM	50	0	18.85	19.20	19.19	20
20	256QAM	50	24	18.92	19.24	19.24	
20	256QAM	50	50	18.86	19.18	19.13	
20	256QAM	100	0	18.86	19.20	19.21	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.94	24.05	24.13	
15	QPSK	1	37	23.74	23.92	23.99	25
15	QPSK	1	74	23.96	23.99	24.02	
15	QPSK	36	0	23.07	23.17	23.14	24
15	QPSK	36	20	22.96	23.05	23.16	
15	QPSK	36	39	22.89	23.08	23.15	
15	QPSK	75	0	23.00	23.11	23.10	24
15	16QAM	1	0	23.21	23.33	23.51	
15	16QAM	1	37	23.19	23.37	23.40	
15	16QAM	1	74	23.18	23.58	23.34	23
15	16QAM	36	0	22.02	22.05	22.14	
15	16QAM	36	20	22.06	22.05	22.18	
15	16QAM	36	39	22.02	22.07	22.14	23
15	16QAM	75	0	21.90	22.09	22.26	
15	64QAM	1	0	22.14	22.37	22.43	
15	64QAM	1	37	21.97	22.06	22.24	23
15	64QAM	1	74	22.11	22.20	22.14	
15	64QAM	36	0	20.94	21.13	21.08	
15	64QAM	36	20	20.97	21.05	21.10	22
15	64QAM	36	39	20.95	20.99	21.02	
15	64QAM	75	0	20.96	20.97	21.03	
15	256QAM	1	0	19.02	19.29	19.33	20
15	256QAM	1	37	18.75	18.98	19.06	
15	256QAM	1	74	19.00	19.16	19.29	
15	256QAM	36	0	18.79	19.16	19.11	20
15	256QAM	36	20	18.77	19.12	19.10	
15	256QAM	36	39	18.70	19.17	19.09	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.77	19.05	19.08	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	24.03	23.98	24.19	25
10	QPSK	1	25	23.89	23.87	23.99	
10	QPSK	1	49	24.00	23.99	24.00	
10	QPSK	25	0	23.02	23.18	23.06	24
10	QPSK	25	12	22.90	22.99	23.21	
10	QPSK	25	25	22.99	23.19	23.08	
10	QPSK	50	0	22.99	23.04	23.19	24
10	16QAM	1	0	23.27	23.22	23.38	
10	16QAM	1	25	23.27	23.40	23.54	
10	16QAM	1	49	23.32	23.55	23.42	23
10	16QAM	25	0	22.04	22.13	22.15	
10	16QAM	25	12	22.08	22.21	22.07	
10	16QAM	25	25	22.00	22.19	22.03	23
10	16QAM	50	0	22.01	22.09	22.18	
10	64QAM	1	0	22.14	22.45	22.34	
10	64QAM	1	25	22.10	22.13	22.20	23
10	64QAM	1	49	22.11	22.18	22.17	
10	64QAM	25	0	21.02	21.08	21.13	22
10	64QAM	25	12	20.94	21.10	21.18	
10	64QAM	25	25	20.92	21.02	21.17	
10	64QAM	50	0	20.86	21.06	21.04	20
10	256QAM	1	0	19.09	19.28	19.43	
10	256QAM	1	25	18.83	19.12	18.97	
10	256QAM	1	49	18.89	19.17	19.25	20
10	256QAM	25	0	18.72	19.19	18.99	
10	256QAM	25	12	18.75	19.21	19.19	
10	256QAM	25	25	18.70	19.05	19.00	20
10	256QAM	50	0	18.68	19.10	19.09	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.87	23.99	24.09	25
5	QPSK	1	12	23.88	24.03	23.94	
5	QPSK	1	24	23.99	24.15	24.10	
5	QPSK	12	0	22.91	23.23	23.20	24
5	QPSK	12	7	23.05	23.03	23.02	
5	QPSK	12	13	22.90	23.20	23.19	
5	QPSK	25	0	22.98	23.01	23.05	24
5	16QAM	1	0	23.27	23.32	23.39	
5	16QAM	1	12	23.19	23.31	23.45	
5	16QAM	1	24	23.19	23.38	23.43	23
5	16QAM	12	0	22.03	22.03	22.25	
5	16QAM	12	7	21.90	22.03	22.23	
5	16QAM	12	13	21.91	22.07	22.21	23
5	16QAM	25	0	22.06	22.19	22.24	
5	64QAM	1	0	22.09	22.31	22.34	
5	64QAM	1	12	22.00	22.13	22.25	22
5	64QAM	1	24	22.16	22.23	22.29	
5	64QAM	12	0	20.95	21.15	21.05	
5	64QAM	12	7	21.01	21.12	21.06	20
5	64QAM	12	13	20.85	21.10	21.06	
5	64QAM	25	0	20.88	21.09	21.11	
5	256QAM	1	0	19.07	19.24	19.37	20
5	256QAM	1	12	18.66	19.00	19.05	
5	256QAM	1	24	18.88	19.12	19.11	
5	256QAM	12	0	18.69	19.05	19.09	20
5	256QAM	12	7	18.92	19.10	19.10	
5	256QAM	12	13	18.82	18.99	18.99	
5	256QAM	25	0	18.78	19.04	19.11	



<LTE Band 7_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.82	23.65	23.53	
20	QPSK	1	49	23.64	23.51	23.47	24
20	QPSK	1	99	23.58	23.43	23.42	
20	QPSK	50	0	23.31	23.24	23.19	
20	QPSK	50	24	23.34	23.09	23.05	24
20	QPSK	50	50	23.25	23.04	23.12	
20	QPSK	100	0	23.28	23.19	23.15	
20	16QAM	1	0	23.44	23.18	23.20	24
20	16QAM	1	49	23.52	23.53	23.01	
20	16QAM	1	99	23.28	23.27	23.32	
20	16QAM	50	0	22.22	21.98	22.17	23
20	16QAM	50	24	22.30	22.06	21.98	
20	16QAM	50	50	22.32	22.00	22.02	
20	16QAM	100	0	22.27	22.10	22.10	23
20	64QAM	1	0	22.44	22.65	22.47	
20	64QAM	1	49	22.34	22.25	22.33	
20	64QAM	1	99	22.60	22.28	22.35	22
20	64QAM	50	0	21.32	21.21	21.06	
20	64QAM	50	24	21.32	21.20	21.15	
20	64QAM	50	50	21.39	21.13	21.14	20
20	64QAM	100	0	21.26	21.15	21.22	
20	256QAM	1	0	19.30	19.35	19.30	
20	256QAM	1	49	19.22	19.28	19.16	20
20	256QAM	1	99	19.08	19.15	19.12	
20	256QAM	50	0	19.13	19.14	19.06	
20	256QAM	50	24	18.92	19.08	19.04	20
20	256QAM	50	50	19.03	19.11	18.98	
20	256QAM	100	0	19.01	19.10	19.02	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.69	23.49	23.28	
15	QPSK	1	37	23.56	23.33	23.39	24
15	QPSK	1	74	23.40	23.26	23.26	
15	QPSK	36	0	23.26	23.19	23.11	
15	QPSK	36	20	23.20	23.02	22.85	24
15	QPSK	36	39	23.08	22.86	22.92	
15	QPSK	75	0	23.09	23.09	22.96	
15	16QAM	1	0	23.23	22.97	23.03	24
15	16QAM	1	37	23.28	23.45	22.94	
15	16QAM	1	74	23.15	23.12	23.25	
15	16QAM	36	0	21.99	21.74	21.95	23
15	16QAM	36	20	22.18	21.88	21.84	
15	16QAM	36	39	22.10	21.88	21.79	
15	16QAM	75	0	22.13	21.85	21.88	23
15	64QAM	1	0	22.38	22.53	22.36	
15	64QAM	1	37	22.23	22.12	22.10	
15	64QAM	1	74	22.48	22.18	22.23	22
15	64QAM	36	0	21.07	20.98	20.86	
15	64QAM	36	20	21.27	21.15	21.02	
15	64QAM	36	39	21.23	20.88	20.91	20
15	64QAM	75	0	21.15	21.01	21.05	
15	256QAM	1	0	19.17	19.21	19.18	
15	256QAM	1	37	19.02	19.10	19.06	20
15	256QAM	1	74	18.99	19.09	18.91	
15	256QAM	36	0	19.07	18.95	18.96	
15	256QAM	36	20	18.67	18.95	18.95	20
15	256QAM	36	39	18.93	18.96	18.76	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	18.91	18.93	18.78	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.59	23.42	23.32	24
10	QPSK	1	25	23.41	23.42	23.31	
10	QPSK	1	49	23.53	23.18	23.27	
10	QPSK	25	0	23.06	22.99	22.96	24
10	QPSK	25	12	23.21	22.99	22.96	
10	QPSK	25	25	23.11	22.88	22.97	
10	QPSK	50	0	23.19	23.05	23.04	
10	16QAM	1	0	23.30	23.08	22.96	24
10	16QAM	1	25	23.41	23.42	22.87	
10	16QAM	1	49	23.23	23.04	23.19	
10	16QAM	25	0	22.08	21.87	21.94	23
10	16QAM	25	12	22.13	21.92	21.89	
10	16QAM	25	25	22.11	21.80	21.91	
10	16QAM	50	0	22.19	22.02	22.00	
10	64QAM	1	0	22.37	22.58	22.29	23
10	64QAM	1	25	22.10	22.17	22.21	
10	64QAM	1	49	22.37	22.15	22.12	
10	64QAM	25	0	21.13	21.00	20.82	22
10	64QAM	25	12	21.16	21.13	21.04	
10	64QAM	25	25	21.19	21.03	20.99	
10	64QAM	50	0	21.18	20.94	21.00	
10	256QAM	1	0	19.09	19.29	19.19	20
10	256QAM	1	25	19.08	19.15	19.06	
10	256QAM	1	49	18.98	18.97	18.87	
10	256QAM	25	0	18.93	19.02	18.99	20
10	256QAM	25	12	18.80	18.89	18.97	
10	256QAM	25	25	18.89	18.88	18.74	
10	256QAM	50	0	18.77	18.92	18.95	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.73	23.46	23.45	24
5	QPSK	1	12	23.39	23.27	23.26	
5	QPSK	1	24	23.45	23.24	23.33	
5	QPSK	12	0	23.19	23.13	23.11	24
5	QPSK	12	7	23.10	22.94	22.80	
5	QPSK	12	13	23.17	22.83	22.98	
5	QPSK	25	0	23.08	22.98	23.02	
5	16QAM	1	0	23.34	23.11	23.13	24
5	16QAM	1	12	23.32	23.38	22.81	
5	16QAM	1	24	23.21	23.09	23.13	
5	16QAM	12	0	22.05	21.74	22.08	23
5	16QAM	12	7	22.18	21.92	21.81	
5	16QAM	12	13	22.09	21.78	21.82	
5	16QAM	25	0	22.10	21.90	21.92	
5	64QAM	1	0	22.19	22.41	22.35	23
5	64QAM	1	12	22.11	22.20	22.18	
5	64QAM	1	24	22.42	22.11	22.13	
5	64QAM	12	0	21.18	21.08	20.82	22
5	64QAM	12	7	21.26	21.12	20.99	
5	64QAM	12	13	21.30	21.00	20.93	
5	64QAM	25	0	21.18	21.03	21.16	
5	256QAM	1	0	19.09	19.29	19.09	20
5	256QAM	1	12	19.07	19.19	19.10	
5	256QAM	1	24	18.94	18.98	18.94	
5	256QAM	12	0	18.89	19.00	18.99	20
5	256QAM	12	7	18.72	19.00	18.96	
5	256QAM	12	13	18.91	18.97	18.87	
5	256QAM	25	0	18.89	18.89	18.84	

**<LTE Band 7_Ant 2_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.10	17.08	16.92	
20	QPSK	1	49	16.89	17.04	16.82	17.8
20	QPSK	1	99	16.87	17.03	16.73	
20	QPSK	50	0	16.81	16.80	16.74	
20	QPSK	50	24	16.61	16.78	16.69	17.8
20	QPSK	50	50	16.59	16.78	16.61	
20	QPSK	100	0	16.60	16.80	16.71	
20	16QAM	1	0	16.62	16.78	16.77	17.8
20	16QAM	1	49	16.39	16.55	16.47	
20	16QAM	1	99	16.63	16.74	16.60	
20	16QAM	50	0	16.61	16.80	16.74	17.8
20	16QAM	50	24	16.61	16.78	16.71	
20	16QAM	50	50	16.65	16.77	16.70	
20	16QAM	100	0	16.64	16.67	16.76	17.8
20	64QAM	1	0	16.86	17.06	16.98	
20	64QAM	1	49	16.90	17.07	16.96	
20	64QAM	1	99	16.89	16.93	16.87	17.8
20	64QAM	50	0	16.68	16.84	16.79	
20	64QAM	50	24	16.65	16.82	16.75	
20	64QAM	50	50	16.66	16.78	16.72	17.8
20	64QAM	100	0	16.68	16.83	16.73	
20	256QAM	1	0	16.63	16.87	16.75	
20	256QAM	1	49	16.70	16.86	16.75	17.8
20	256QAM	1	99	16.69	16.78	16.62	
20	256QAM	50	0	16.44	16.62	16.56	
20	256QAM	50	24	16.48	16.59	16.60	17.8
20	256QAM	50	50	16.45	16.53	16.53	
20	256QAM	100	0	16.50	16.65	16.52	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.91	16.99	17.00	
15	QPSK	1	37	16.78	16.84	16.80	17.8
15	QPSK	1	74	16.74	16.89	16.84	
15	QPSK	36	0	16.50	16.68	16.60	17.8
15	QPSK	36	20	16.49	16.68	16.51	
15	QPSK	36	39	16.43	16.68	16.48	
15	QPSK	75	0	16.49	16.67	16.60	17.8
15	16QAM	1	0	16.51	16.68	16.64	
15	16QAM	1	37	16.24	16.40	16.32	
15	16QAM	1	74	16.44	16.55	16.49	17.8
15	16QAM	36	0	16.50	16.68	16.62	
15	16QAM	36	20	16.45	16.61	16.59	
15	16QAM	36	39	16.53	16.66	16.58	17.8
15	16QAM	75	0	16.52	16.51	16.59	
15	64QAM	1	0	16.70	16.93	16.86	
15	64QAM	1	37	16.80	16.87	16.86	17.8
15	64QAM	1	74	16.77	16.79	16.68	
15	64QAM	36	0	16.50	16.69	16.63	
15	64QAM	36	20	16.47	16.62	16.55	17.8
15	64QAM	36	39	16.46	16.61	16.57	
15	64QAM	75	0	16.54	16.71	16.62	
15	256QAM	1	0	16.68	16.82	16.76	17.8
15	256QAM	1	37	16.71	16.92	16.71	
15	256QAM	1	74	16.67	16.68	16.68	
15	256QAM	36	0	16.46	16.61	16.62	17.8
15	256QAM	36	20	16.45	16.62	16.55	
15	256QAM	36	39	16.48	16.58	16.49	



FCC SAR TEST REPORT

Report No. : FA4N0920C

15	256QAM	75	0	16.51	16.65	16.56	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.83	16.89	16.95	17.8
10	QPSK	1	25	16.74	16.83	16.87	
10	QPSK	1	49	16.71	16.81	16.81	
10	QPSK	25	0	16.46	16.55	16.62	17.8
10	QPSK	25	12	16.48	16.59	16.51	
10	QPSK	25	25	16.49	16.51	16.48	
10	QPSK	50	0	16.40	16.61	16.59	
10	16QAM	1	0	16.52	16.51	16.60	17.8
10	16QAM	1	25	16.25	16.28	16.27	
10	16QAM	1	49	16.44	16.51	16.38	
10	16QAM	25	0	16.43	16.61	16.60	17.8
10	16QAM	25	12	16.44	16.54	16.52	
10	16QAM	25	25	16.51	16.48	16.48	
10	16QAM	50	0	16.49	16.46	16.58	
10	64QAM	1	0	16.67	16.77	16.84	17.8
10	64QAM	1	25	16.70	16.88	16.84	
10	64QAM	1	49	16.73	16.69	16.68	
10	64QAM	25	0	16.52	16.56	16.59	17.8
10	64QAM	25	12	16.51	16.62	16.63	
10	64QAM	25	25	16.47	16.54	16.52	
10	64QAM	50	0	16.58	16.58	16.59	
10	256QAM	1	0	16.61	16.77	16.72	17.8
10	256QAM	1	25	16.68	16.77	16.74	
10	256QAM	1	49	16.65	16.68	16.67	
10	256QAM	25	0	16.49	16.54	16.59	17.8
10	256QAM	25	12	16.48	16.53	16.48	
10	256QAM	25	25	16.47	16.49	16.49	
10	256QAM	50	0	16.51	16.57	16.56	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.84	16.91	16.88	17.8
5	QPSK	1	12	16.75	16.72	16.81	
5	QPSK	1	24	16.72	16.81	16.82	
5	QPSK	12	0	16.42	16.55	16.51	17.8
5	QPSK	12	7	16.48	16.50	16.52	
5	QPSK	12	13	16.43	16.48	16.47	
5	QPSK	25	0	16.51	16.54	16.51	
5	16QAM	1	0	16.53	16.52	16.56	17.8
5	16QAM	1	12	16.20	16.30	16.24	
5	16QAM	1	24	16.49	16.46	16.46	
5	16QAM	12	0	16.43	16.48	16.50	17.8
5	16QAM	12	7	16.51	16.49	16.49	
5	16QAM	12	13	16.55	16.47	16.50	
5	16QAM	25	0	16.53	16.42	16.56	
5	64QAM	1	0	16.68	16.74	16.81	17.8
5	64QAM	1	12	16.79	16.83	16.79	
5	64QAM	1	24	16.76	16.71	16.66	
5	64QAM	12	0	16.53	16.60	16.65	17.8
5	64QAM	12	7	16.52	16.50	16.60	
5	64QAM	12	13	16.47	16.55	16.57	
5	64QAM	25	0	16.52	16.55	16.49	
5	256QAM	1	0	16.69	16.78	16.79	17.8
5	256QAM	1	12	16.74	16.79	16.72	
5	256QAM	1	24	16.72	16.62	16.68	
5	256QAM	12	0	16.54	16.55	16.57	17.8
5	256QAM	12	7	16.42	16.47	16.53	
5	256QAM	12	13	16.48	16.42	16.50	
5	256QAM	25	0	16.52	16.47	16.48	

**<LTE Band 7_Ant 1_Index 4>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.82	22.97	23.07	
20	QPSK	1	49	22.61	22.53	22.61	23.3
20	QPSK	1	99	22.55	22.47	22.53	
20	QPSK	50	0	22.72	22.58	22.73	
20	QPSK	50	24	22.68	22.54	22.57	23.3
20	QPSK	50	50	22.63	22.50	22.56	
20	QPSK	100	0	22.62	22.56	22.69	
20	16QAM	1	0	22.76	22.67	22.60	23.3
20	16QAM	1	49	22.86	22.74	22.91	
20	16QAM	1	99	22.86	22.69	22.76	
20	16QAM	50	0	22.34	22.22	22.16	23.1
20	16QAM	50	24	22.31	22.16	22.15	
20	16QAM	50	50	22.22	22.09	22.17	
20	16QAM	100	0	22.32	22.19	22.17	23.1
20	64QAM	1	0	22.59	22.52	22.39	
20	64QAM	1	49	22.52	22.36	22.35	
20	64QAM	1	99	22.38	22.25	22.40	22.1
20	64QAM	50	0	21.35	21.24	21.16	
20	64QAM	50	24	21.33	21.17	21.18	
20	64QAM	50	50	21.30	21.16	21.14	20.1
20	64QAM	100	0	21.26	21.17	21.18	
20	256QAM	1	0	19.18	19.38	19.19	
20	256QAM	1	49	19.11	19.26	19.15	20.1
20	256QAM	1	99	19.04	19.18	19.08	
20	256QAM	50	0	18.99	19.17	19.02	
20	256QAM	50	24	18.92	19.12	18.99	20.1
20	256QAM	50	50	18.94	19.06	18.89	
20	256QAM	100	0	18.93	19.11	18.98	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.89	22.77	22.72	
15	QPSK	1	37	22.49	22.37	22.45	23.3
15	QPSK	1	74	22.36	22.37	22.35	
15	QPSK	36	0	22.56	22.45	22.48	23.3
15	QPSK	36	20	22.56	22.42	22.41	
15	QPSK	36	39	22.53	22.35	22.44	
15	QPSK	75	0	22.61	22.46	22.44	23.3
15	16QAM	1	0	22.65	22.51	22.43	
15	16QAM	1	37	22.75	22.56	22.75	
15	16QAM	1	74	22.70	22.49	22.64	23.1
15	16QAM	36	0	22.15	22.12	22.04	
15	16QAM	36	20	22.18	22.05	22.02	
15	16QAM	36	39	22.08	21.98	22.00	23.1
15	16QAM	75	0	22.17	22.09	22.07	
15	64QAM	1	0	22.47	22.38	22.19	
15	64QAM	1	37	22.39	22.20	22.25	22.1
15	64QAM	1	74	22.24	22.08	22.29	
15	64QAM	36	0	21.21	21.13	20.98	
15	64QAM	36	20	21.19	21.07	20.98	20.1
15	64QAM	36	39	21.17	20.98	20.99	
15	64QAM	75	0	21.13	20.97	20.98	
15	256QAM	1	0	18.98	19.25	19.04	20.1
15	256QAM	1	37	18.99	19.16	18.95	
15	256QAM	1	74	18.91	19.00	18.90	
15	256QAM	36	0	18.83	19.02	18.89	20.1
15	256QAM	36	20	18.77	18.94	18.85	
15	256QAM	36	39	18.84	18.88	18.74	



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15	256QAM	75	0	18.81	18.97	18.81	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.95	22.78	22.71	23.3
10	QPSK	1	25	22.46	22.41	22.45	
10	QPSK	1	49	22.44	22.37	22.33	
10	QPSK	25	0	22.61	22.42	22.43	23.3
10	QPSK	25	12	22.52	22.35	22.45	
10	QPSK	25	25	22.43	22.34	22.43	
10	QPSK	50	0	22.61	22.36	22.37	23.3
10	16QAM	1	0	22.64	22.57	22.49	
10	16QAM	1	25	22.69	22.60	22.71	
10	16QAM	1	49	22.76	22.51	22.59	23.1
10	16QAM	25	0	22.17	22.04	22.02	
10	16QAM	25	12	22.17	22.03	21.97	
10	16QAM	25	25	22.06	21.89	22.05	23.1
10	16QAM	50	0	22.21	22.01	22.04	
10	64QAM	1	0	22.49	22.40	22.22	
10	64QAM	1	25	22.35	22.20	22.24	22.1
10	64QAM	1	49	22.22	22.11	22.29	
10	64QAM	25	0	21.24	21.05	21.05	
10	64QAM	25	12	21.23	21.05	21.03	20.1
10	64QAM	25	25	21.15	21.03	20.96	
10	64QAM	50	0	21.12	20.97	20.98	
10	256QAM	1	0	18.98	19.27	19.08	20.1
10	256QAM	1	25	18.97	19.13	18.95	
10	256QAM	1	49	18.85	19.04	18.91	
10	256QAM	25	0	18.87	19.04	18.83	20.1
10	256QAM	25	12	18.81	18.94	18.87	
10	256QAM	25	25	18.81	18.87	18.73	
10	256QAM	50	0	18.76	18.97	18.88	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.94	22.80	22.64	23.3
5	QPSK	1	12	22.47	22.42	22.43	
5	QPSK	1	24	22.36	22.28	22.34	
5	QPSK	12	0	22.53	22.43	22.45	23.3
5	QPSK	12	7	22.53	22.36	22.40	
5	QPSK	12	13	22.48	22.36	22.39	
5	QPSK	25	0	22.59	22.43	22.37	23.3
5	16QAM	1	0	22.60	22.57	22.45	
5	16QAM	1	12	22.74	22.57	22.81	
5	16QAM	1	24	22.70	22.51	22.57	23.1
5	16QAM	12	0	22.17	22.12	22.03	
5	16QAM	12	7	22.19	21.96	22.02	
5	16QAM	12	13	22.11	21.90	22.03	23.1
5	16QAM	25	0	22.20	22.09	22.05	
5	64QAM	1	0	22.49	22.35	22.29	
5	64QAM	1	12	22.32	22.17	22.16	22.1
5	64QAM	1	24	22.23	22.15	22.27	
5	64QAM	12	0	21.15	21.14	21.05	
5	64QAM	12	7	21.16	21.01	21.07	20.1
5	64QAM	12	13	21.10	20.98	20.97	
5	64QAM	25	0	21.07	20.99	21.08	
5	256QAM	1	0	19.04	19.22	19.00	20.1
5	256QAM	1	12	19.01	19.10	18.99	
5	256QAM	1	24	18.86	19.07	18.93	
5	256QAM	12	0	18.85	18.98	18.86	20.1
5	256QAM	12	7	18.73	19.01	18.89	
5	256QAM	12	13	18.84	18.86	18.75	
5	256QAM	25	0	18.75	19.01	18.86	



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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)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.10	17.08	16.92	
20	QPSK	1	49	16.89	17.04	16.82	18.5
20	QPSK	1	99	16.87	17.03	16.73	
20	QPSK	50	0	16.81	16.80	16.74	
20	QPSK	50	24	16.61	16.78	16.69	18.5
20	QPSK	50	50	16.59	16.78	16.61	
20	QPSK	100	0	16.60	16.80	16.71	
20	16QAM	1	0	16.62	16.78	16.77	18.5
20	16QAM	1	49	16.55	16.55	16.53	
20	16QAM	1	99	16.63	16.74	16.60	
20	16QAM	50	0	16.61	16.80	16.74	18.5
20	16QAM	50	24	16.61	16.78	16.71	
20	16QAM	50	50	16.65	16.77	16.70	
20	16QAM	100	0	16.64	16.67	16.76	18.5
20	64QAM	1	0	16.86	17.06	16.98	
20	64QAM	1	49	16.90	17.07	16.96	
20	64QAM	1	99	16.89	16.93	16.87	18.5
20	64QAM	50	0	16.68	16.84	16.79	
20	64QAM	50	24	16.65	16.82	16.75	
20	64QAM	50	50	16.66	16.78	16.72	18.5
20	64QAM	100	0	16.68	16.83	16.73	
20	256QAM	1	0	16.63	16.87	16.75	
20	256QAM	1	49	16.70	16.86	16.75	18.5
20	256QAM	1	99	16.69	16.78	16.62	
20	256QAM	50	0	16.52	16.62	16.56	18.5
20	256QAM	50	24	16.51	16.59	16.60	
20	256QAM	50	50	16.50	16.53	16.53	
20	256QAM	100	0	16.50	16.65	16.52	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.91	16.99	17.00	
15	QPSK	1	37	16.78	16.84	16.80	18.5
15	QPSK	1	74	16.74	16.89	16.84	
15	QPSK	36	0	16.50	16.68	16.60	18.5
15	QPSK	36	20	16.52	16.68	16.51	
15	QPSK	36	39	16.53	16.68	16.50	
15	QPSK	75	0	16.51	16.67	16.60	18.5
15	16QAM	1	0	16.51	16.68	16.64	
15	16QAM	1	37	16.50	16.52	16.55	
15	16QAM	1	74	16.51	16.55	16.52	18.5
15	16QAM	36	0	16.50	16.68	16.62	
15	16QAM	36	20	16.52	16.61	16.59	
15	16QAM	36	39	16.53	16.66	16.58	18.5
15	16QAM	75	0	16.52	16.51	16.59	
15	64QAM	1	0	16.70	16.93	16.86	
15	64QAM	1	37	16.80	16.87	16.86	18.5
15	64QAM	1	74	16.77	16.79	16.68	
15	64QAM	36	0	16.50	16.69	16.63	18.5
15	64QAM	36	20	16.51	16.62	16.55	
15	64QAM	36	39	16.52	16.61	16.57	
15	64QAM	75	0	16.54	16.71	16.62	18.5
15	256QAM	1	0	16.68	16.82	16.76	
15	256QAM	1	37	16.71	16.92	16.71	
15	256QAM	1	74	16.67	16.68	16.68	18.5
15	256QAM	36	0	16.55	16.61	16.62	
15	256QAM	36	20	16.53	16.62	16.55	
15	256QAM	36	39	16.52	16.58	16.52	