

**【LTE Band 38_Ant 2_DSI 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				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.30	21.32	21.29	22.40
20	QPSK	1	49	20.97	21.10	20.92	22.40
20	QPSK	1	99	21.05	21.14	21.00	22.40
20	QPSK	50	0	21.14	21.20	21.11	22.40
20	QPSK	50	24	20.96	21.14	21.04	22.40
20	QPSK	50	50	21.07	21.17	21.07	22.40
20	QPSK	100	0	21.15	21.25	21.17	22.40
20	16QAM	1	0	21.09	21.17	20.95	22.40
20	16QAM	1	49	21.07	21.15	20.96	22.40
20	16QAM	1	99	21.06	21.22	21.02	22.40
20	16QAM	50	0	21.00	21.18	20.97	22.40
20	16QAM	50	24	21.07	21.22	21.13	22.40
20	16QAM	50	50	20.90	21.08	20.90	22.40
20	16QAM	100	0	21.03	21.21	21.04	22.40
20	64QAM	1	0	21.08	21.18	21.00	22.40
20	64QAM	1	49	21.04	21.23	21.13	22.40
20	64QAM	1	99	21.03	21.17	21.04	22.40
20	64QAM	50	0	20.03	20.10	20.01	21.00
20	64QAM	50	24	19.90	20.10	19.90	21.00
20	64QAM	50	50	19.97	20.10	19.97	21.00
20	64QAM	100	0	20.02	20.18	20.10	21.00
20	256QAM	1	0	18.00	18.14	17.99	19.00
20	256QAM	1	49	18.04	18.12	18.00	19.00
20	256QAM	1	99	18.14	18.25	18.15	19.00
20	256QAM	50	0	17.98	18.08	17.98	19.00
20	256QAM	50	24	18.01	18.09	17.93	19.00
20	256QAM	50	50	18.02	18.20	18.01	19.00
20	256QAM	100	0	17.96	18.13	17.99	19.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.25	21.31	21.22	22.40
15	QPSK	1	37	20.95	21.09	20.88	22.40
15	QPSK	1	74	21.00	21.10	20.93	22.40
15	QPSK	36	0	21.08	21.18	21.06	22.40
15	QPSK	36	20	20.93	21.11	20.95	22.40
15	QPSK	36	39	20.99	21.05	21.01	22.40
15	QPSK	75	0	21.12	21.18	21.05	22.40
15	16QAM	1	0	20.97	21.08	20.83	22.40
15	16QAM	1	37	20.94	21.08	20.91	22.40
15	16QAM	1	74	20.94	21.16	20.97	22.40
15	16QAM	36	0	20.85	21.15	20.85	22.40
15	16QAM	36	20	21.05	21.11	21.00	22.40
15	16QAM	36	39	20.87	20.97	20.82	22.40
15	16QAM	75	0	20.91	21.10	20.96	22.40
15	64QAM	1	0	21.04	21.15	20.91	22.40
15	64QAM	1	37	20.92	21.08	21.01	22.40
15	64QAM	1	74	20.92	21.10	20.96	22.40
15	64QAM	36	0	19.96	20.01	19.95	21.00
15	64QAM	36	20	19.86	20.07	19.80	21.00
15	64QAM	36	39	19.96	20.08	19.96	21.00
15	64QAM	75	0	19.97	20.10	19.99	21.00
15	256QAM	1	0	17.97	18.04	17.97	19.00
15	256QAM	1	37	18.00	18.02	17.95	19.00
15	256QAM	1	74	18.07	18.23	18.13	19.00
15	256QAM	36	0	17.96	18.02	17.89	19.00
15	256QAM	36	20	17.94	18.06	17.79	19.00
15	256QAM	36	39	17.89	18.06	17.98	19.00
15	256QAM	75	0	17.85	18.02	17.93	19.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.23	21.27	21.23	22.40
10	QPSK	1	25	20.94	21.06	20.86	22.40
10	QPSK	1	49	20.96	21.07	20.99	22.40
10	QPSK	25	0	21.02	21.16	21.00	22.40
10	QPSK	25	12	20.95	21.02	20.97	22.40
10	QPSK	25	25	20.96	21.11	21.05	22.40
10	QPSK	50	0	21.03	21.15	21.04	22.40
10	16QAM	1	0	21.08	21.11	20.81	22.40
10	16QAM	1	25	20.97	21.06	20.90	22.40
10	16QAM	1	49	20.91	21.16	20.94	22.40
10	16QAM	25	0	20.98	21.09	20.89	22.40
10	16QAM	25	12	21.02	21.12	21.01	22.40



10	16QAM	25	25	20.85	21.04	20.76	22.40
10	16QAM	50	0	20.99	21.19	21.01	22.40
10	64QAM	1	0	20.98	21.09	20.96	22.40
10	64QAM	1	25	20.90	21.22	21.00	22.40
10	64QAM	1	49	20.92	21.11	21.01	22.40
10	64QAM	25	0	19.95	20.09	19.99	21.00
10	64QAM	25	12	19.84	20.08	19.87	21.00
10	64QAM	25	25	19.90	20.07	19.85	21.00
10	64QAM	50	0	19.95	20.09	19.99	21.00
10	256QAM	1	0	17.87	17.99	17.85	19.00
10	256QAM	1	25	17.93	18.06	17.94	19.00
10	256QAM	1	49	18.06	18.22	18.03	19.00
10	256QAM	25	0	17.85	18.04	17.92	19.00
10	256QAM	25	12	17.99	18.05	17.92	19.00
10	256QAM	25	25	17.99	18.08	17.98	19.00
10	256QAM	50	0	17.84	18.10	17.85	19.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.26	21.22	21.23	22.40
5	QPSK	1	12	20.96	21.09	20.89	22.40
5	QPSK	1	24	20.91	21.01	20.90	22.40
5	QPSK	12	0	21.06	21.17	20.98	22.40
5	QPSK	12	7	20.90	21.11	20.90	22.40
5	QPSK	12	13	21.06	21.16	21.05	22.40
5	QPSK	25	0	21.08	21.14	21.09	22.40
5	16QAM	1	0	21.01	21.07	20.92	22.40
5	16QAM	1	12	20.96	21.01	20.83	22.40
5	16QAM	1	24	20.99	21.09	20.89	22.40
5	16QAM	12	0	20.96	21.17	20.90	22.40
5	16QAM	12	7	21.05	21.19	21.05	22.40
5	16QAM	12	13	20.85	21.05	20.79	22.40
5	16QAM	25	0	20.98	21.18	21.02	22.40
5	64QAM	1	0	21.00	21.10	20.88	22.40
5	64QAM	1	12	20.89	21.16	21.09	22.40
5	64QAM	1	24	20.91	21.07	21.02	22.40
5	64QAM	12	0	19.89	20.06	19.95	21.00
5	64QAM	12	7	19.77	20.02	19.81	21.00
5	64QAM	12	13	19.90	20.04	19.87	21.00
5	64QAM	25	0	19.92	20.17	20.04	21.00
5	256QAM	1	0	17.97	18.11	17.91	19.00
5	256QAM	1	12	17.89	17.97	17.86	19.00
5	256QAM	1	24	18.10	18.21	18.02	19.00
5	256QAM	12	0	17.85	18.05	17.95	19.00
5	256QAM	12	7	17.94	18.07	17.78	19.00
5	256QAM	12	13	17.94	18.09	17.87	19.00
5	256QAM	25	0	17.89	18.00	17.85	19.00

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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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.02	23.18	23.15	24.00
20	QPSK	1	49	22.66	22.96	22.80	24.00
20	QPSK	1	99	22.88	23.09	23.04	24.00
20	QPSK	50	0	22.16	22.21	22.19	23.00
20	QPSK	50	24	21.74	21.99	21.93	23.00
20	QPSK	50	50	21.89	22.14	22.06	23.00
20	QPSK	100	0	21.86	22.16	22.02	23.00
20	16QAM	1	0	21.71	21.98	21.90	23.00
20	16QAM	1	49	21.75	21.98	21.86	23.00
20	16QAM	1	99	21.97	22.18	22.08	23.00
20	16QAM	50	0	20.77	20.98	20.88	22.00
20	16QAM	50	24	20.72	21.00	20.84	22.00
20	16QAM	50	50	20.91	21.10	20.93	22.00
20	16QAM	100	0	20.82	21.02	20.97	22.00
20	64QAM	1	0	20.75	20.99	20.92	22.00
20	64QAM	1	49	20.77	21.00	20.86	22.00
20	64QAM	1	99	20.90	21.09	21.04	22.00
20	64QAM	50	0	20.05	20.20	20.03	21.00
20	64QAM	50	24	19.74	19.98	19.90	21.00
20	64QAM	50	50	19.94	20.14	20.01	21.00



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20	64QAM	100	0	19.83	20.08	19.94	21.00
20	256QAM	1	0	17.80	18.00	17.90	19.00
20	256QAM	1	49	17.77	18.02	17.94	19.00
20	256QAM	1	99	17.92	18.11	18.02	19.00
20	256QAM	50	0	17.97	18.18	18.02	19.00
20	256QAM	50	24	17.73	17.97	17.82	19.00
20	256QAM	50	50	17.76	17.97	17.80	19.00
20	256QAM	100	0	17.94	18.16	18.02	19.00
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	(dBm)
15	QPSK	1	0	22.97	23.08	23.02	24.00
15	QPSK	1	37	22.55	22.95	22.65	24.00
15	QPSK	1	74	22.83	23.07	22.93	24.00
15	QPSK	36	0	22.10	22.12	22.14	23.00
15	QPSK	36	20	21.66	21.89	21.79	23.00
15	QPSK	36	39	21.83	22.07	21.93	23.00
15	QPSK	75	0	21.75	22.12	21.89	23.00
15	16QAM	1	0	21.63	21.96	21.83	23.00
15	16QAM	1	37	21.61	21.86	21.78	23.00
15	16QAM	1	74	21.91	22.12	22.04	23.00
15	16QAM	36	0	20.73	20.96	20.76	22.00
15	16QAM	36	20	20.57	20.97	20.82	22.00
15	16QAM	36	39	20.85	21.08	20.79	22.00
15	16QAM	75	0	20.78	20.89	20.86	22.00
15	64QAM	1	0	20.67	20.87	20.80	22.00
15	64QAM	1	37	20.67	20.91	20.81	22.00
15	64QAM	1	74	20.80	21.01	20.96	22.00
15	64QAM	36	0	20.03	20.12	19.88	21.00
15	64QAM	36	20	19.62	19.93	19.75	21.00
15	64QAM	36	39	19.81	20.02	19.95	21.00
15	64QAM	75	0	19.71	20.01	19.81	21.00
15	256QAM	1	0	17.70	17.88	17.86	19.00
15	256QAM	1	37	17.71	17.94	17.81	19.00
15	256QAM	1	74	17.82	17.99	17.88	19.00
15	256QAM	36	0	17.93	18.03	17.88	19.00
15	256QAM	36	20	17.59	17.93	17.68	19.00
15	256QAM	36	39	17.67	17.90	17.76	19.00
15	256QAM	75	0	17.81	18.11	17.92	19.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	22.97	23.16	23.11	24.00
10	QPSK	1	25	22.54	22.86	22.76	24.00
10	QPSK	1	49	22.74	23.07	22.91	24.00
10	QPSK	25	0	22.10	22.17	22.05	23.00
10	QPSK	25	12	21.63	21.87	21.80	23.00
10	QPSK	25	25	21.85	22.03	22.04	23.00
10	QPSK	50	0	21.79	22.15	21.87	23.00
10	16QAM	1	0	21.69	21.88	21.81	23.00
10	16QAM	1	25	21.74	21.89	21.78	23.00
10	16QAM	1	49	21.90	22.14	22.04	23.00
10	16QAM	25	0	20.76	20.90	20.84	22.00
10	16QAM	25	12	20.66	20.89	20.70	22.00
10	16QAM	25	25	20.80	20.98	20.92	22.00
10	16QAM	50	0	20.80	20.88	20.83	22.00
10	64QAM	1	0	20.69	20.90	20.83	22.00
10	64QAM	1	25	20.66	20.98	20.77	22.00
10	64QAM	1	49	20.85	21.04	20.97	22.00
10	64QAM	25	0	19.94	20.05	19.97	21.00
10	64QAM	25	12	19.71	19.93	19.81	21.00
10	64QAM	25	25	19.80	20.03	19.98	21.00
10	64QAM	50	0	19.73	19.94	19.84	21.00
10	256QAM	1	0	17.76	17.87	17.83	19.00
10	256QAM	1	25	17.66	17.89	17.83	19.00
10	256QAM	1	49	17.86	18.10	17.88	19.00
10	256QAM	25	0	17.92	18.12	17.92	19.00
10	256QAM	25	12	17.71	17.85	17.81	19.00
10	256QAM	25	25	17.64	17.95	17.75	19.00
10	256QAM	50	0	17.90	18.07	17.96	19.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	22.93	23.06	23.12	24.00
5	QPSK	1	12	22.59	22.86	22.66	24.00
5	QPSK	1	24	22.78	22.95	22.90	24.00
5	QPSK	12	0	22.15	22.12	22.18	23.00
5	QPSK	12	7	21.72	21.85	21.89	23.00
5	QPSK	12	13	21.77	22.06	21.95	23.00
5	QPSK	25	0	21.84	22.15	21.99	23.00
5	16QAM	1	0	21.70	21.92	21.78	23.00



5	16QAM	1	12	21.66	21.86	21.82	23.00
5	16QAM	1	24	21.85	22.08	21.99	23.00
5	16QAM	12	0	20.66	20.94	20.82	22.00
5	16QAM	12	7	20.71	20.90	20.70	22.00
5	16QAM	12	13	20.82	21.09	20.83	22.00
5	16QAM	25	0	20.77	20.89	20.94	22.00
5	64QAM	1	0	20.74	20.89	20.78	22.00
5	64QAM	1	12	20.67	20.93	20.74	22.00
5	64QAM	1	24	20.79	21.01	21.00	22.00
5	64QAM	12	0	20.02	20.16	19.97	21.00
5	64QAM	12	7	19.69	19.85	19.84	21.00
5	64QAM	12	13	19.81	20.05	19.93	21.00
5	64QAM	25	0	19.78	19.99	19.84	21.00
5	256QAM	1	0	17.72	17.86	17.79	19.00
5	256QAM	1	12	17.63	17.92	17.87	19.00
5	256QAM	1	24	17.84	18.03	17.99	19.00
5	256QAM	12	0	17.85	18.17	18.00	19.00
5	256QAM	12	7	17.58	17.82	17.76	19.00
5	256QAM	12	13	17.67	17.89	17.72	19.00
5	256QAM	25	0	17.85	18.06	17.94	19.00

【LTE Band 38_Ant 2_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.02	23.18	23.15	24.00
20	QPSK	1	49	22.66	22.96	22.80	24.00
20	QPSK	1	99	22.88	23.09	23.04	24.00
20	QPSK	50	0	22.16	22.21	22.19	23.00
20	QPSK	50	24	21.74	21.99	21.93	23.00
20	QPSK	50	50	21.89	22.14	22.06	23.00
20	QPSK	100	0	21.86	22.16	22.02	23.00
20	16QAM	1	0	21.71	21.98	21.90	23.00
20	16QAM	1	49	21.75	21.98	21.86	23.00
20	16QAM	1	99	21.97	22.18	22.08	23.00
20	16QAM	50	0	20.77	20.98	20.88	22.00
20	16QAM	50	24	20.72	21.00	20.84	22.00
20	16QAM	50	50	20.91	21.10	20.93	22.00
20	16QAM	100	0	20.82	21.02	20.97	22.00
20	64QAM	1	0	20.75	20.99	20.92	22.00
20	64QAM	1	49	20.77	21.00	20.86	22.00
20	64QAM	1	99	20.90	21.09	21.04	22.00
20	64QAM	50	0	20.05	20.20	20.03	21.00
20	64QAM	50	24	19.74	19.98	19.90	21.00
20	64QAM	50	50	19.94	20.14	20.01	21.00
20	64QAM	100	0	19.83	20.08	19.94	21.00
20	256QAM	1	0	17.80	18.00	17.90	19.00
20	256QAM	1	49	17.77	18.02	17.94	19.00
20	256QAM	1	99	17.92	18.11	18.02	19.00
20	256QAM	50	0	17.97	18.18	18.02	19.00
20	256QAM	50	24	17.73	17.97	17.82	19.00
20	256QAM	50	50	17.76	17.97	17.80	19.00
20	256QAM	100	0	17.94	18.16	18.02	19.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.97	23.08	23.02	24.00
15	QPSK	1	37	22.55	22.95	22.65	24.00
15	QPSK	1	74	22.83	23.07	22.93	24.00
15	QPSK	36	0	22.10	22.12	22.14	23.00
15	QPSK	36	20	21.66	21.89	21.79	23.00
15	QPSK	36	39	21.83	22.07	21.93	23.00
15	QPSK	75	0	21.75	22.12	21.89	23.00
15	16QAM	1	0	21.63	21.96	21.83	23.00
15	16QAM	1	37	21.61	21.86	21.78	23.00
15	16QAM	1	74	21.91	22.12	22.04	23.00
15	16QAM	36	0	20.73	20.96	20.76	22.00
15	16QAM	36	20	20.57	20.97	20.82	22.00
15	16QAM	36	39	20.85	21.08	20.79	22.00
15	16QAM	75	0	20.78	20.89	20.86	22.00
15	64QAM	1	0	20.67	20.87	20.80	22.00
15	64QAM	1	37	20.67	20.91	20.81	22.00



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15	64QAM	1	74	20.80	21.01	20.96	22.00
15	64QAM	36	0	20.03	20.12	19.88	21.00
15	64QAM	36	20	19.62	19.93	19.75	21.00
15	64QAM	36	39	19.81	20.02	19.95	21.00
15	64QAM	75	0	19.71	20.01	19.81	21.00
15	256QAM	1	0	17.70	17.88	17.86	19.00
15	256QAM	1	37	17.71	17.94	17.81	19.00
15	256QAM	1	74	17.82	17.99	17.88	19.00
15	256QAM	36	0	17.93	18.03	17.88	19.00
15	256QAM	36	20	17.59	17.93	17.68	19.00
15	256QAM	36	39	17.67	17.90	17.76	19.00
15	256QAM	75	0	17.81	18.11	17.92	19.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	22.97	23.16	23.11	24.00
10	QPSK	1	25	22.54	22.86	22.76	24.00
10	QPSK	1	49	22.74	23.07	22.91	24.00
10	QPSK	25	0	22.10	22.17	22.05	23.00
10	QPSK	25	12	21.63	21.87	21.80	23.00
10	QPSK	25	25	21.85	22.03	22.04	23.00
10	QPSK	50	0	21.79	22.15	21.87	23.00
10	16QAM	1	0	21.69	21.88	21.81	23.00
10	16QAM	1	25	21.74	21.89	21.78	23.00
10	16QAM	1	49	21.90	22.14	22.04	23.00
10	16QAM	25	0	20.76	20.90	20.84	22.00
10	16QAM	25	12	20.66	20.89	20.70	22.00
10	16QAM	25	25	20.80	20.98	20.92	22.00
10	16QAM	50	0	20.80	20.88	20.83	22.00
10	64QAM	1	0	20.69	20.90	20.83	22.00
10	64QAM	1	25	20.66	20.98	20.77	22.00
10	64QAM	1	49	20.85	21.04	20.97	22.00
10	64QAM	25	0	19.94	20.05	19.97	21.00
10	64QAM	25	12	19.71	19.93	19.81	21.00
10	64QAM	25	25	19.80	20.03	19.98	21.00
10	64QAM	50	0	19.73	19.94	19.84	21.00
10	256QAM	1	0	17.76	17.87	17.83	19.00
10	256QAM	1	25	17.66	17.89	17.83	19.00
10	256QAM	1	49	17.86	18.10	17.88	19.00
10	256QAM	25	0	17.92	18.12	17.92	19.00
10	256QAM	25	12	17.71	17.85	17.81	19.00
10	256QAM	25	25	17.64	17.95	17.75	19.00
10	256QAM	50	0	17.90	18.07	17.96	19.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	22.93	23.06	23.12	24.00
5	QPSK	1	12	22.59	22.86	22.66	24.00
5	QPSK	1	24	22.78	22.95	22.90	24.00
5	QPSK	12	0	22.15	22.12	22.18	23.00
5	QPSK	12	7	21.72	21.85	21.89	23.00
5	QPSK	12	13	21.77	22.06	21.95	23.00
5	QPSK	25	0	21.84	22.15	21.99	23.00
5	16QAM	1	0	21.70	21.92	21.78	23.00
5	16QAM	1	12	21.66	21.86	21.82	23.00
5	16QAM	1	24	21.85	22.08	21.99	23.00
5	16QAM	12	0	20.66	20.94	20.82	22.00
5	16QAM	12	7	20.71	20.90	20.70	22.00
5	16QAM	12	13	20.82	21.09	20.83	22.00
5	16QAM	25	0	20.77	20.89	20.94	22.00
5	64QAM	1	0	20.74	20.89	20.78	22.00
5	64QAM	1	12	20.67	20.93	20.74	22.00
5	64QAM	1	24	20.79	21.01	21.00	22.00
5	64QAM	12	0	20.02	20.16	19.97	21.00
5	64QAM	12	7	19.69	19.85	19.84	21.00
5	64QAM	12	13	19.81	20.05	19.93	21.00
5	64QAM	25	0	19.78	19.99	19.84	21.00
5	256QAM	1	0	17.72	17.86	17.79	19.00
5	256QAM	1	12	17.63	17.92	17.87	19.00
5	256QAM	1	24	17.84	18.03	17.99	19.00
5	256QAM	12	0	17.85	18.17	18.00	19.00
5	256QAM	12	7	17.58	17.82	17.76	19.00
5	256QAM	12	13	17.67	17.89	17.72	19.00
5	256QAM	25	0	17.85	18.06	17.94	19.00



【LTE Band 38_Ant 2_DSI 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				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.30	21.32	21.29	22.00
20	QPSK	1	49	20.97	21.10	20.92	22.00
20	QPSK	1	99	21.05	21.14	21.00	22.00
20	QPSK	50	0	21.14	21.20	21.11	22.00
20	QPSK	50	24	20.96	21.14	21.04	22.00
20	QPSK	50	50	21.07	21.17	21.07	22.00
20	QPSK	100	0	21.15	21.25	21.17	22.00
20	16QAM	1	0	21.09	21.17	20.95	22.00
20	16QAM	1	49	21.07	21.15	20.96	22.00
20	16QAM	1	99	21.06	21.22	21.02	22.00
20	16QAM	50	0	21.00	21.18	20.97	22.00
20	16QAM	50	24	21.07	21.22	21.13	22.00
20	16QAM	50	50	20.90	21.08	20.90	22.00
20	16QAM	100	0	21.03	21.21	21.04	22.00
20	64QAM	1	0	21.08	21.18	21.00	22.00
20	64QAM	1	49	21.04	21.23	21.13	22.00
20	64QAM	1	99	21.03	21.17	21.04	22.00
20	64QAM	50	0	20.03	20.10	20.01	21.00
20	64QAM	50	24	19.90	20.10	19.90	21.00
20	64QAM	50	50	19.97	20.10	19.97	21.00
20	64QAM	100	0	20.02	20.18	20.10	21.00
20	256QAM	1	0	18.00	18.14	17.99	19.00
20	256QAM	1	49	18.04	18.12	18.00	19.00
20	256QAM	1	99	18.14	18.25	18.15	19.00
20	256QAM	50	0	17.98	18.08	17.98	19.00
20	256QAM	50	24	18.01	18.09	17.93	19.00
20	256QAM	50	50	18.02	18.20	18.01	19.00
20	256QAM	100	0	17.96	18.13	17.99	19.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.25	21.31	21.22	22.00
15	QPSK	1	37	20.95	21.09	20.88	22.00
15	QPSK	1	74	21.00	21.10	20.93	22.00
15	QPSK	36	0	21.08	21.18	21.06	22.00
15	QPSK	36	20	20.93	21.11	20.95	22.00
15	QPSK	36	39	20.99	21.05	21.01	22.00
15	QPSK	75	0	21.12	21.18	21.05	22.00
15	16QAM	1	0	20.97	21.08	20.83	22.00
15	16QAM	1	37	20.94	21.08	20.91	22.00
15	16QAM	1	74	20.94	21.16	20.97	22.00
15	16QAM	36	0	20.85	21.15	20.85	22.00
15	16QAM	36	20	21.05	21.11	21.00	22.00
15	16QAM	36	39	20.87	20.97	20.82	22.00
15	16QAM	75	0	20.91	21.10	20.96	22.00
15	64QAM	1	0	21.04	21.15	20.91	22.00
15	64QAM	1	37	20.92	21.08	21.01	22.00
15	64QAM	1	74	20.92	21.10	20.96	22.00
15	64QAM	36	0	19.96	20.01	19.95	21.00
15	64QAM	36	20	19.86	20.07	19.80	21.00
15	64QAM	36	39	19.96	20.08	19.96	21.00
15	64QAM	75	0	19.97	20.10	19.99	21.00
15	256QAM	1	0	17.97	18.04	17.97	19.00
15	256QAM	1	37	18.00	18.02	17.95	19.00
15	256QAM	1	74	18.07	18.23	18.13	19.00
15	256QAM	36	0	17.96	18.02	17.89	19.00
15	256QAM	36	20	17.94	18.06	17.79	19.00
15	256QAM	36	39	17.89	18.06	17.98	19.00
15	256QAM	75	0	17.85	18.02	17.93	19.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.23	21.27	21.23	22.00
10	QPSK	1	25	20.94	21.06	20.86	22.00
10	QPSK	1	49	20.96	21.07	20.99	22.00
10	QPSK	25	0	21.02	21.16	21.00	22.00
10	QPSK	25	12	20.95	21.02	20.97	22.00
10	QPSK	25	25	20.96	21.11	21.05	22.00
10	QPSK	50	0	21.03	21.15	21.04	22.00
10	16QAM	1	0	21.08	21.11	20.81	22.00
10	16QAM	1	25	20.97	21.06	20.90	22.00
10	16QAM	1	49	20.91	21.16	20.94	22.00
10	16QAM	25	0	20.98	21.09	20.89	22.00
10	16QAM	25	12	21.02	21.12	21.01	22.00



10	16QAM	25	25	20.85	21.04	20.76	22.00
10	16QAM	50	0	20.99	21.19	21.01	22.00
10	64QAM	1	0	20.98	21.09	20.96	22.00
10	64QAM	1	25	20.90	21.22	21.00	22.00
10	64QAM	1	49	20.92	21.11	21.01	22.00
10	64QAM	25	0	19.95	20.09	19.99	21.00
10	64QAM	25	12	19.84	20.08	19.87	21.00
10	64QAM	25	25	19.90	20.07	19.85	21.00
10	64QAM	50	0	19.95	20.09	19.99	21.00
10	256QAM	1	0	17.87	17.99	17.85	19.00
10	256QAM	1	25	17.93	18.06	17.94	19.00
10	256QAM	1	49	18.06	18.22	18.03	19.00
10	256QAM	25	0	17.85	18.04	17.92	19.00
10	256QAM	25	12	17.99	18.05	17.92	19.00
10	256QAM	25	25	17.99	18.08	17.98	19.00
10	256QAM	50	0	17.84	18.10	17.85	19.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.26	21.22	21.23	22.00
5	QPSK	1	12	20.96	21.09	20.89	22.00
5	QPSK	1	24	20.91	21.01	20.90	22.00
5	QPSK	12	0	21.06	21.17	20.98	22.00
5	QPSK	12	7	20.90	21.11	20.90	22.00
5	QPSK	12	13	21.06	21.16	21.05	22.00
5	QPSK	25	0	21.08	21.14	21.09	22.00
5	16QAM	1	0	21.01	21.07	20.92	22.00
5	16QAM	1	12	20.96	21.01	20.83	22.00
5	16QAM	1	24	20.99	21.09	20.89	22.00
5	16QAM	12	0	20.96	21.17	20.90	22.00
5	16QAM	12	7	21.05	21.19	21.05	22.00
5	16QAM	12	13	20.85	21.05	20.79	22.00
5	16QAM	25	0	20.98	21.18	21.02	22.00
5	64QAM	1	0	21.00	21.10	20.88	22.00
5	64QAM	1	12	20.89	21.16	21.09	22.00
5	64QAM	1	24	20.91	21.07	21.02	22.00
5	64QAM	12	0	19.89	20.06	19.95	21.00
5	64QAM	12	7	19.77	20.02	19.81	21.00
5	64QAM	12	13	19.90	20.04	19.87	21.00
5	64QAM	25	0	19.92	20.17	20.04	21.00
5	256QAM	1	0	17.97	18.11	17.91	19.00
5	256QAM	1	12	17.89	17.97	17.86	19.00
5	256QAM	1	24	18.10	18.21	18.02	19.00
5	256QAM	12	0	17.85	18.05	17.95	19.00
5	256QAM	12	7	17.94	18.07	17.78	19.00
5	256QAM	12	13	17.94	18.09	17.87	19.00
5	256QAM	25	0	17.89	18.00	17.85	19.00

【LTE Band 38_Ant 2_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	13.89	13.96	13.87	15.70
20	QPSK	1	49	13.85	13.89	13.79	15.70
20	QPSK	1	99	13.85	13.84	13.83	15.70
20	QPSK	50	0	13.88	13.95	13.87	15.70
20	QPSK	50	24	13.89	13.92	13.81	15.70
20	QPSK	50	50	13.87	13.88	13.87	15.70
20	QPSK	100	0	13.88	13.85	13.86	15.70
20	16QAM	1	0	13.95	13.86	13.82	15.70
20	16QAM	1	49	13.89	13.85	13.79	15.70
20	16QAM	1	99	13.90	13.82	13.82	15.70
20	16QAM	50	0	13.91	13.92	13.87	15.70
20	16QAM	50	24	13.92	13.92	13.90	15.70
20	16QAM	50	50	13.87	13.92	13.89	15.70
20	16QAM	100	0	13.93	13.87	13.83	15.70
20	64QAM	1	0	13.92	13.87	13.87	15.70
20	64QAM	1	49	13.90	13.82	13.88	15.70
20	64QAM	1	99	13.85	13.88	13.78	15.70
20	64QAM	50	0	13.90	13.90	13.79	15.70
20	64QAM	50	24	13.93	13.83	13.83	15.70
20	64QAM	50	50	13.90	13.90	13.87	15.70



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20	64QAM	100	0	13.91	13.84	13.84	15.70
20	256QAM	1	0	13.90	13.87	13.82	15.70
20	256QAM	1	49	13.87	13.93	13.89	15.70
20	256QAM	1	99	13.87	13.87	13.79	15.70
20	256QAM	50	0	13.90	13.83	13.80	15.70
20	256QAM	50	24	13.88	13.88	13.83	15.70
20	256QAM	50	50	13.91	13.86	13.82	15.70
20	256QAM	100	0	13.95	13.83	13.88	15.70
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	(dBm)
15	QPSK	1	0	13.84	13.94	13.83	15.70
15	QPSK	1	37	13.77	13.76	13.74	15.70
15	QPSK	1	74	13.70	13.70	13.77	15.70
15	QPSK	36	0	13.82	13.89	13.78	15.70
15	QPSK	36	20	13.74	13.90	13.71	15.70
15	QPSK	36	39	13.85	13.76	13.80	15.70
15	QPSK	75	0	13.74	13.74	13.85	15.70
15	16QAM	1	0	13.86	13.75	13.78	15.70
15	16QAM	1	37	13.74	13.83	13.70	15.70
15	16QAM	1	74	13.82	13.80	13.70	15.70
15	16QAM	36	0	13.90	13.91	13.85	15.70
15	16QAM	36	20	13.83	13.90	13.80	15.70
15	16QAM	36	39	13.82	13.90	13.84	15.70
15	16QAM	75	0	13.80	13.84	13.75	15.70
15	64QAM	1	0	13.78	13.72	13.74	15.70
15	64QAM	1	37	13.77	13.81	13.76	15.70
15	64QAM	1	74	13.77	13.76	13.71	15.70
15	64QAM	36	0	13.84	13.78	13.72	15.70
15	64QAM	36	20	13.91	13.71	13.74	15.70
15	64QAM	36	39	13.86	13.89	13.83	15.70
15	64QAM	75	0	13.85	13.73	13.81	15.70
15	256QAM	1	0	13.83	13.80	13.76	15.70
15	256QAM	1	37	13.86	13.81	13.75	15.70
15	256QAM	1	74	13.83	13.74	13.70	15.70
15	256QAM	36	0	13.87	13.75	13.71	15.70
15	256QAM	36	20	13.76	13.81	13.75	15.70
15	256QAM	36	39	13.86	13.74	13.70	15.70
15	256QAM	75	0	13.88	13.78	13.85	15.70
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	13.74	13.83	13.81	15.70
10	QPSK	1	25	13.73	13.76	13.75	15.70
10	QPSK	1	49	13.70	13.72	13.77	15.70
10	QPSK	25	0	13.80	13.88	13.86	15.70
10	QPSK	25	12	13.76	13.86	13.79	15.70
10	QPSK	25	25	13.78	13.79	13.86	15.70
10	QPSK	50	0	13.79	13.73	13.83	15.70
10	16QAM	1	0	13.85	13.77	13.71	15.70
10	16QAM	1	25	13.87	13.76	13.70	15.70
10	16QAM	1	49	13.88	13.76	13.77	15.70
10	16QAM	25	0	13.80	13.86	13.75	15.70
10	16QAM	25	12	13.82	13.80	13.86	15.70
10	16QAM	25	25	13.84	13.79	13.85	15.70
10	16QAM	50	0	13.85	13.74	13.79	15.70
10	64QAM	1	0	13.86	13.85	13.73	15.70
10	64QAM	1	25	13.88	13.75	13.83	15.70
10	64QAM	1	49	13.74	13.84	13.72	15.70
10	64QAM	25	0	13.87	13.77	13.72	15.70
10	64QAM	25	12	13.82	13.74	13.81	15.70
10	64QAM	25	25	13.89	13.76	13.81	15.70
10	64QAM	50	0	13.86	13.83	13.71	15.70
10	256QAM	1	0	13.85	13.72	13.71	15.70
10	256QAM	1	25	13.73	13.88	13.81	15.70
10	256QAM	1	49	13.82	13.77	13.77	15.70
10	256QAM	25	0	13.80	13.76	13.72	15.70
10	256QAM	25	12	13.77	13.78	13.71	15.70
10	256QAM	25	25	13.81	13.79	13.73	15.70
10	256QAM	50	0	13.86	13.80	13.75	15.70
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	13.80	13.93	13.83	15.70
5	QPSK	1	12	13.79	13.82	13.71	15.70
5	QPSK	1	24	13.79	13.81	13.72	15.70
5	QPSK	12	0	13.83	13.81	13.83	15.70
5	QPSK	12	7	13.85	13.88	13.78	15.70
5	QPSK	12	13	13.83	13.78	13.78	15.70
5	QPSK	25	0	13.76	13.79	13.76	15.70
5	16QAM	1	0	13.86	13.74	13.76	15.70



5	16QAM	1	12	13.78	13.73	13.70	15.70
5	16QAM	1	24	13.77	13.79	13.70	15.70
5	16QAM	12	0	13.85	13.87	13.77	15.70
5	16QAM	12	7	13.83	13.79	13.89	15.70
5	16QAM	12	13	13.74	13.79	13.82	15.70
5	16QAM	25	0	13.85	13.81	13.71	15.70
5	64QAM	1	0	13.89	13.83	13.86	15.70
5	64QAM	1	12	13.88	13.70	13.82	15.70
5	64QAM	1	24	13.79	13.80	13.71	15.70
5	64QAM	12	0	13.80	13.85	13.71	15.70
5	64QAM	12	7	13.79	13.71	13.79	15.70
5	64QAM	12	13	13.79	13.82	13.85	15.70
5	64QAM	25	0	13.89	13.70	13.82	15.70
5	256QAM	1	0	13.88	13.82	13.79	15.70
5	256QAM	1	12	13.79	13.82	13.77	15.70
5	256QAM	1	24	13.86	13.73	13.74	15.70
5	256QAM	12	0	13.89	13.75	13.78	15.70
5	256QAM	12	7	13.75	13.84	13.75	15.70
5	256QAM	12	13	13.85	13.82	13.73	15.70
5	256QAM	25	0	13.90	13.72	13.85	15.70

【LTE Band 38_Ant 3_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.29	23.31	23.26	24.00
20	QPSK	1	49	22.95	23.05	22.91	24.00
20	QPSK	1	99	22.96	23.09	22.97	24.00
20	QPSK	50	0	22.26	22.35	22.24	23.00
20	QPSK	50	24	22.14	22.17	21.99	23.00
20	QPSK	50	50	22.05	22.10	21.93	23.00
20	QPSK	100	0	22.09	22.21	22.02	23.00
20	16QAM	1	0	22.11	22.15	22.02	23.00
20	16QAM	1	49	22.07	22.17	22.01	23.00
20	16QAM	1	99	22.22	22.30	22.17	23.00
20	16QAM	50	0	21.16	21.21	21.10	22.00
20	16QAM	50	24	21.01	21.16	20.98	22.00
20	16QAM	50	50	21.26	21.31	21.19	22.00
20	16QAM	100	0	21.20	21.28	21.14	22.00
20	64QAM	1	0	21.02	21.16	21.08	22.00
20	64QAM	1	49	21.03	21.13	20.94	22.00
20	64QAM	1	99	20.99	21.10	20.91	22.00
20	64QAM	50	0	20.01	20.11	19.96	21.00
20	64QAM	50	24	20.19	20.25	20.18	21.00
20	64QAM	50	50	19.98	20.12	20.03	21.00
20	64QAM	100	0	20.30	20.33	20.17	21.00
20	256QAM	1	0	18.12	18.20	18.11	19.00
20	256QAM	1	49	18.21	18.31	18.17	19.00
20	256QAM	1	99	18.17	18.29	18.12	19.00
20	256QAM	50	0	18.18	18.24	18.12	19.00
20	256QAM	50	24	18.10	18.15	18.00	19.00
20	256QAM	50	50	17.96	18.12	17.97	19.00
20	256QAM	100	0	17.97	18.13	18.08	19.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.14	23.28	23.18	24.00
15	QPSK	1	37	22.94	22.97	22.85	24.00
15	QPSK	1	74	22.90	23.04	22.89	24.00
15	QPSK	36	0	22.23	22.30	22.11	23.00
15	QPSK	36	20	22.02	22.03	21.85	23.00
15	QPSK	36	39	22.01	21.99	21.79	23.00
15	QPSK	75	0	21.95	22.13	21.87	23.00
15	16QAM	1	0	21.98	22.07	21.90	23.00
15	16QAM	1	37	21.93	22.03	21.87	23.00
15	16QAM	1	74	22.15	22.27	22.04	23.00
15	16QAM	36	0	21.03	21.15	21.00	22.00
15	16QAM	36	20	20.95	21.03	20.88	22.00
15	16QAM	36	39	21.16	21.20	21.09	22.00
15	16QAM	75	0	21.08	21.24	21.02	22.00
15	64QAM	1	0	21.01	21.07	21.00	22.00
15	64QAM	1	37	20.96	21.04	20.88	22.00



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15	64QAM	1	74	20.85	21.00	20.84	22.00
15	64QAM	36	0	19.92	19.97	19.92	21.00
15	64QAM	36	20	20.09	20.13	20.09	21.00
15	64QAM	36	39	19.83	19.99	19.97	21.00
15	64QAM	75	0	20.25	20.25	20.15	21.00
15	256QAM	1	0	17.97	18.06	17.98	19.00
15	256QAM	1	37	18.16	18.27	18.06	19.00
15	256QAM	1	74	18.04	18.26	18.02	19.00
15	256QAM	36	0	18.11	18.18	18.08	19.00
15	256QAM	36	20	18.04	18.03	17.98	19.00
15	256QAM	36	39	17.95	18.01	17.91	19.00
15	256QAM	75	0	17.90	18.00	17.97	19.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	23.17	23.29	23.13	24.00
10	QPSK	1	25	22.85	23.02	22.80	24.00
10	QPSK	1	49	22.93	23.08	22.84	24.00
10	QPSK	25	0	22.24	22.21	22.13	23.00
10	QPSK	25	12	22.09	22.14	21.98	23.00
10	QPSK	25	25	21.98	22.00	21.79	23.00
10	QPSK	50	0	22.01	22.12	22.00	23.00
10	16QAM	1	0	22.09	22.08	21.98	23.00
10	16QAM	1	25	22.00	22.13	21.91	23.00
10	16QAM	1	49	22.08	22.18	22.15	23.00
10	16QAM	25	0	21.11	21.16	21.00	22.00
10	16QAM	25	12	20.98	21.03	20.86	22.00
10	16QAM	25	25	21.18	21.17	21.10	22.00
10	16QAM	50	0	21.15	21.15	21.12	22.00
10	64QAM	1	0	20.90	21.07	20.99	22.00
10	64QAM	1	25	20.95	21.01	20.84	22.00
10	64QAM	1	49	20.94	21.04	20.80	22.00
10	64QAM	25	0	19.99	19.98	19.89	21.00
10	64QAM	25	12	20.08	20.14	20.10	21.00
10	64QAM	25	25	19.88	20.05	19.96	21.00
10	64QAM	50	0	20.24	20.24	20.15	21.00
10	256QAM	1	0	18.08	18.14	18.00	19.00
10	256QAM	1	25	18.12	18.18	18.08	19.00
10	256QAM	1	49	18.05	18.28	18.03	19.00
10	256QAM	25	0	18.10	18.22	18.08	19.00
10	256QAM	25	12	18.04	18.03	17.98	19.00
10	256QAM	25	25	17.92	17.98	17.84	19.00
10	256QAM	50	0	17.86	18.01	17.93	19.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	23.17	23.27	23.13	24.00
5	QPSK	1	12	22.90	22.96	22.81	24.00
5	QPSK	1	24	22.92	23.07	22.92	24.00
5	QPSK	12	0	22.23	22.24	22.17	23.00
5	QPSK	12	7	22.11	22.09	21.92	23.00
5	QPSK	12	13	21.96	21.97	21.91	23.00
5	QPSK	25	0	21.99	22.09	21.96	23.00
5	16QAM	1	0	21.96	22.04	21.92	23.00
5	16QAM	1	12	21.97	22.09	21.90	23.00
5	16QAM	1	24	22.11	22.25	22.03	23.00
5	16QAM	12	0	21.06	21.07	21.09	22.00
5	16QAM	12	7	20.88	21.14	20.95	22.00
5	16QAM	12	13	21.15	21.29	21.15	22.00
5	16QAM	25	0	21.10	21.19	21.08	22.00
5	64QAM	1	0	20.98	21.15	20.94	22.00
5	64QAM	1	12	20.99	21.08	20.88	22.00
5	64QAM	1	24	20.91	21.05	20.85	22.00
5	64QAM	12	0	19.99	20.04	19.85	21.00
5	64QAM	12	7	20.06	20.12	20.14	21.00
5	64QAM	12	13	19.83	20.03	19.91	21.00
5	64QAM	25	0	20.27	20.31	20.08	21.00
5	256QAM	1	0	18.09	18.13	18.06	19.00
5	256QAM	1	12	18.13	18.17	18.03	19.00
5	256QAM	1	24	18.12	18.14	18.00	19.00
5	256QAM	12	0	18.15	18.23	17.99	19.00
5	256QAM	12	7	18.00	18.03	17.88	19.00
5	256QAM	12	13	17.85	18.03	17.84	19.00
5	256QAM	25	0	17.83	18.03	18.03	19.00

**【LTE Band 38_Ant 3_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	17.46	17.51	17.47	18.50
20	QPSK	1	49	17.02	17.20	17.06	18.50
20	QPSK	1	99	17.23	17.32	17.15	18.50
20	QPSK	50	0	17.43	17.49	17.44	18.50
20	QPSK	50	24	17.02	17.18	17.03	18.50
20	QPSK	50	50	17.21	17.32	17.16	18.50
20	QPSK	100	0	17.35	17.38	17.33	18.50
20	16QAM	1	0	17.34	17.53	17.36	18.50
20	16QAM	1	49	17.39	17.45	17.30	18.50
20	16QAM	1	99	17.26	17.34	17.16	18.50
20	16QAM	50	0	17.07	17.25	17.13	18.50
20	16QAM	50	24	17.03	17.22	17.12	18.50
20	16QAM	50	50	17.20	17.28	17.09	18.50
20	16QAM	100	0	17.25	17.40	17.33	18.50
20	64QAM	1	0	17.19	17.35	17.30	18.50
20	64QAM	1	49	17.09	17.22	17.16	18.50
20	64QAM	1	99	17.24	17.39	17.24	18.50
20	64QAM	50	0	17.20	17.30	17.14	18.50
20	64QAM	50	24	16.97	17.12	17.05	18.50
20	64QAM	50	50	17.11	17.25	17.16	18.50
20	64QAM	100	0	17.05	17.14	16.99	18.50
20	256QAM	1	0	17.34	17.42	17.26	18.50
20	256QAM	1	49	17.15	17.34	17.23	18.50
20	256QAM	1	99	17.15	17.33	17.24	18.50
20	256QAM	50	0	17.22	17.41	17.32	18.50
20	256QAM	50	24	17.12	17.26	17.16	18.50
20	256QAM	50	50	17.31	17.41	17.33	18.50
20	256QAM	100	0	17.27	17.36	17.21	18.50
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	17.33	17.38	17.44	18.50
15	QPSK	1	37	16.99	17.09	16.91	18.50
15	QPSK	1	74	17.16	17.29	17.04	18.50
15	QPSK	36	0	17.33	17.45	17.36	18.50
15	QPSK	36	20	17.01	17.07	16.95	18.50
15	QPSK	36	39	17.17	17.25	17.01	18.50
15	QPSK	75	0	17.22	17.28	17.24	18.50
15	16QAM	1	0	17.29	17.50	17.25	18.50
15	16QAM	1	37	17.26	17.42	17.16	18.50
15	16QAM	1	74	17.20	17.30	17.04	18.50
15	16QAM	36	0	17.04	17.16	17.06	18.50
15	16QAM	36	20	16.92	17.14	17.08	18.50
15	16QAM	36	39	17.12	17.27	16.99	18.50
15	16QAM	75	0	17.13	17.32	17.25	18.50
15	64QAM	1	0	17.06	17.33	17.19	18.50
15	64QAM	1	37	17.07	17.13	17.09	18.50
15	64QAM	1	74	17.16	17.38	17.10	18.50
15	64QAM	36	0	17.12	17.16	17.06	18.50
15	64QAM	36	20	16.92	17.03	17.02	18.50
15	64QAM	36	39	17.08	17.21	17.05	18.50
15	64QAM	75	0	17.00	17.12	16.85	18.50
15	256QAM	1	0	17.31	17.28	17.13	18.50
15	256QAM	1	37	17.09	17.30	17.08	18.50
15	256QAM	1	74	17.08	17.25	17.22	18.50
15	256QAM	36	0	17.08	17.38	17.26	18.50
15	256QAM	36	20	17.01	17.12	17.02	18.50
15	256QAM	36	39	17.19	17.34	17.18	18.50
15	256QAM	75	0	17.26	17.26	17.09	18.50
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	17.40	17.42	17.33	18.50
10	QPSK	1	25	16.94	17.13	17.00	18.50
10	QPSK	1	49	17.12	17.18	17.05	18.50
10	QPSK	25	0	17.28	17.41	17.33	18.50
10	QPSK	25	12	16.99	17.12	16.88	18.50
10	QPSK	25	25	17.10	17.25	17.07	18.50
10	QPSK	50	0	17.33	17.35	17.21	18.50
10	16QAM	1	0	17.27	17.45	17.26	18.50
10	16QAM	1	25	17.25	17.35	17.19	18.50
10	16QAM	1	49	17.19	17.28	17.06	18.50
10	16QAM	25	0	16.97	17.16	17.12	18.50
10	16QAM	25	12	16.92	17.10	17.10	18.50



10	16QAM	25	25	17.12	17.25	16.98	18.50
10	16QAM	50	0	17.11	17.28	17.28	18.50
10	64QAM	1	0	17.05	17.25	17.24	18.50
10	64QAM	1	25	17.03	17.13	17.03	18.50
10	64QAM	1	49	17.19	17.34	17.14	18.50
10	64QAM	25	0	17.05	17.17	17.06	18.50
10	64QAM	25	12	16.84	16.98	17.03	18.50
10	64QAM	25	25	17.10	17.24	17.09	18.50
10	64QAM	50	0	16.99	17.00	16.96	18.50
10	256QAM	1	0	17.29	17.36	17.24	18.50
10	256QAM	1	25	17.09	17.30	17.19	18.50
10	256QAM	1	49	17.13	17.20	17.13	18.50
10	256QAM	25	0	17.21	17.31	17.19	18.50
10	256QAM	25	12	17.03	17.18	17.04	18.50
10	256QAM	25	25	17.29	17.26	17.18	18.50
10	256QAM	50	0	17.18	17.32	17.07	18.50
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	17.41	17.46	17.41	18.50
5	QPSK	1	12	16.90	17.13	16.98	18.50
5	QPSK	1	24	17.10	17.17	17.09	18.50
5	QPSK	12	0	17.41	17.36	17.31	18.50
5	QPSK	12	7	16.99	17.07	17.02	18.50
5	QPSK	12	13	17.08	17.30	17.07	18.50
5	QPSK	25	0	17.26	17.32	17.31	18.50
5	16QAM	1	0	17.26	17.43	17.23	18.50
5	16QAM	1	12	17.36	17.30	17.16	18.50
5	16QAM	1	24	17.25	17.19	17.06	18.50
5	16QAM	12	0	16.95	17.20	17.01	18.50
5	16QAM	12	7	16.91	17.19	17.06	18.50
5	16QAM	12	13	17.19	17.20	16.97	18.50
5	16QAM	25	0	17.18	17.30	17.18	18.50
5	64QAM	1	0	17.11	17.21	17.19	18.50
5	64QAM	1	12	17.01	17.17	17.15	18.50
5	64QAM	1	24	17.11	17.30	17.20	18.50
5	64QAM	12	0	17.13	17.20	17.12	18.50
5	64QAM	12	7	16.87	16.99	16.94	18.50
5	64QAM	12	13	17.10	17.12	17.10	18.50
5	64QAM	25	0	17.02	17.01	16.90	18.50
5	256QAM	1	0	17.21	17.28	17.22	18.50
5	256QAM	1	12	17.06	17.20	17.17	18.50
5	256QAM	1	24	17.11	17.22	17.10	18.50
5	256QAM	12	0	17.08	17.35	17.29	18.50
5	256QAM	12	7	17.07	17.11	17.07	18.50
5	256QAM	12	13	17.21	17.32	17.26	18.50
5	256QAM	25	0	17.17	17.22	17.07	18.50

【LTE Band 38_Ant 3_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	18.48	18.55	18.40	19.20
20	QPSK	1	49	18.29	18.44	18.15	19.20
20	QPSK	1	99	18.12	18.27	18.03	19.20
20	QPSK	50	0	18.33	18.45	18.29	19.20
20	QPSK	50	24	18.30	18.43	18.21	19.20
20	QPSK	50	50	18.23	18.36	18.17	19.20
20	QPSK	100	0	18.33	18.36	18.30	19.20
20	16QAM	1	0	18.20	18.42	18.20	19.20
20	16QAM	1	49	18.09	18.28	18.09	19.20
20	16QAM	1	99	18.11	18.28	18.07	19.20
20	16QAM	50	0	18.17	18.34	18.09	19.20
20	16QAM	50	24	18.16	18.29	18.07	19.20
20	16QAM	50	50	18.17	18.36	18.15	19.20
20	16QAM	100	0	18.20	18.35	18.13	19.20
20	64QAM	1	0	18.22	18.31	18.04	19.20
20	64QAM	1	49	18.25	18.34	18.10	19.20
20	64QAM	1	99	18.11	18.27	18.00	19.20
20	64QAM	50	0	18.07	18.29	18.04	19.20
20	64QAM	50	24	18.21	18.40	18.12	19.20
20	64QAM	50	50	18.20	18.39	18.14	19.20



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20	64QAM	100	0	18.27	18.37	18.21	19.20
20	256QAM	1	0	18.27	18.36	18.06	19.00
20	256QAM	1	49	18.22	18.39	18.13	19.00
20	256QAM	1	99	18.31	18.40	18.20	19.00
20	256QAM	50	0	18.22	18.40	18.15	19.00
20	256QAM	50	24	18.27	18.42	18.21	19.00
20	256QAM	50	50	18.14	18.32	18.09	19.00
20	256QAM	100	0	18.20	18.37	18.09	19.00
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	(dBm)
15	QPSK	1	0	18.34	18.41	18.27	19.20
15	QPSK	1	37	18.25	18.38	18.08	19.20
15	QPSK	1	74	17.99	18.25	17.93	19.20
15	QPSK	36	0	18.27	18.33	18.19	19.20
15	QPSK	36	20	18.25	18.38	18.13	19.20
15	QPSK	36	39	18.16	18.23	18.11	19.20
15	QPSK	75	0	18.19	18.27	18.23	19.20
15	16QAM	1	0	18.12	18.37	18.07	19.20
15	16QAM	1	37	18.07	18.21	18.08	19.20
15	16QAM	1	74	17.98	18.25	18.06	19.20
15	16QAM	36	0	18.05	18.19	17.97	19.20
15	16QAM	36	20	18.09	18.27	18.01	19.20
15	16QAM	36	39	18.13	18.22	18.08	19.20
15	16QAM	75	0	18.11	18.25	17.98	19.20
15	64QAM	1	0	18.09	18.28	17.92	19.20
15	64QAM	1	37	18.11	18.30	18.06	19.20
15	64QAM	1	74	17.99	18.26	17.97	19.20
15	64QAM	36	0	17.94	18.22	17.96	19.20
15	64QAM	36	20	18.10	18.34	17.99	19.20
15	64QAM	36	39	18.13	18.35	18.10	19.20
15	64QAM	75	0	18.14	18.25	18.14	19.20
15	256QAM	1	0	18.19	18.35	18.00	19.00
15	256QAM	1	37	18.10	18.26	18.04	19.00
15	256QAM	1	74	18.19	18.28	18.06	19.00
15	256QAM	36	0	18.13	18.27	18.08	19.00
15	256QAM	36	20	18.22	18.36	18.08	19.00
15	256QAM	36	39	18.01	18.29	18.08	19.00
15	256QAM	75	0	18.09	18.29	17.94	19.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	18.43	18.44	18.28	19.20
10	QPSK	1	25	18.15	18.31	18.10	19.20
10	QPSK	1	49	18.09	18.23	17.89	19.20
10	QPSK	25	0	18.26	18.34	18.17	19.20
10	QPSK	25	12	18.24	18.41	18.12	19.20
10	QPSK	25	25	18.10	18.35	18.13	19.20
10	QPSK	50	0	18.27	18.26	18.18	19.20
10	16QAM	1	0	18.05	18.32	18.10	19.20
10	16QAM	1	25	17.98	18.18	18.07	19.20
10	16QAM	1	49	18.01	18.20	17.96	19.20
10	16QAM	25	0	18.09	18.20	18.07	19.20
10	16QAM	25	12	18.12	18.24	17.98	19.20
10	16QAM	25	25	18.07	18.34	18.02	19.20
10	16QAM	50	0	18.08	18.33	17.99	19.20
10	64QAM	1	0	18.11	18.22	17.98	19.20
10	64QAM	1	25	18.24	18.28	18.02	19.20
10	64QAM	1	49	17.97	18.22	17.98	19.20
10	64QAM	25	0	18.02	18.26	17.91	19.20
10	64QAM	25	12	18.08	18.39	18.11	19.20
10	64QAM	25	25	18.13	18.25	18.01	19.20
10	64QAM	50	0	18.24	18.31	18.16	19.20
10	256QAM	1	0	18.13	18.31	18.01	19.00
10	256QAM	1	25	18.13	18.32	17.98	19.00
10	256QAM	1	49	18.26	18.35	18.08	19.00
10	256QAM	25	0	18.09	18.39	18.13	19.00
10	256QAM	25	12	18.22	18.33	18.06	19.00
10	256QAM	25	25	18.11	18.28	18.03	19.00
10	256QAM	50	0	18.11	18.32	17.95	19.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	18.39	18.48	18.30	19.20
5	QPSK	1	12	18.22	18.38	18.09	19.20
5	QPSK	1	24	18.06	18.19	17.90	19.20
5	QPSK	12	0	18.27	18.32	18.22	19.20
5	QPSK	12	7	18.20	18.28	18.11	19.20
5	QPSK	12	13	18.18	18.25	18.07	19.20
5	QPSK	25	0	18.32	18.28	18.26	19.20
5	16QAM	1	0	18.14	18.38	18.09	19.20



5	16QAM	1	12	18.00	18.17	17.96	19.20
5	16QAM	1	24	18.03	18.21	18.01	19.20
5	16QAM	12	0	18.07	18.20	17.98	19.20
5	16QAM	12	7	18.06	18.26	17.96	19.20
5	16QAM	12	13	18.15	18.22	18.13	19.20
5	16QAM	25	0	18.11	18.24	18.06	19.20
5	64QAM	1	0	18.08	18.20	17.89	19.20
5	64QAM	1	12	18.15	18.23	17.99	19.20
5	64QAM	1	24	18.09	18.20	17.95	19.20
5	64QAM	12	0	17.99	18.16	17.97	19.20
5	64QAM	12	7	18.07	18.28	17.97	19.20
5	64QAM	12	13	18.10	18.27	17.99	19.20
5	64QAM	25	0	18.25	18.26	18.07	19.20
5	256QAM	1	0	18.22	18.29	17.96	19.00
5	256QAM	1	12	18.19	18.29	18.09	19.00
5	256QAM	1	24	18.28	18.36	18.06	19.00
5	256QAM	12	0	18.21	18.36	18.11	19.00
5	256QAM	12	7	18.13	18.28	18.12	19.00
5	256QAM	12	13	18.09	18.25	17.99	19.00
5	256QAM	25	0	18.19	18.23	17.99	19.00

【LTE Band 38_Ant 3_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.29	23.31	23.26	24.00
20	QPSK	1	49	22.95	23.05	22.91	24.00
20	QPSK	1	99	22.96	23.09	22.97	24.00
20	QPSK	50	0	22.26	22.35	22.24	23.00
20	QPSK	50	24	22.14	22.17	21.99	23.00
20	QPSK	50	50	22.05	22.10	21.93	23.00
20	QPSK	100	0	22.09	22.21	22.02	23.00
20	16QAM	1	0	22.11	22.15	22.02	23.00
20	16QAM	1	49	22.07	22.17	22.01	23.00
20	16QAM	1	99	22.22	22.30	22.17	23.00
20	16QAM	50	0	21.16	21.21	21.10	22.00
20	16QAM	50	24	21.01	21.16	20.98	22.00
20	16QAM	50	50	21.26	21.31	21.19	22.00
20	16QAM	100	0	21.20	21.28	21.14	22.00
20	64QAM	1	0	21.02	21.16	21.08	22.00
20	64QAM	1	49	21.03	21.13	20.94	22.00
20	64QAM	1	99	20.99	21.10	20.91	22.00
20	64QAM	50	0	20.01	20.11	19.96	21.00
20	64QAM	50	24	20.19	20.25	20.18	21.00
20	64QAM	50	50	19.98	20.12	20.03	21.00
20	64QAM	100	0	20.30	20.33	20.17	21.00
20	256QAM	1	0	18.12	18.20	18.11	19.00
20	256QAM	1	49	18.21	18.31	18.17	19.00
20	256QAM	1	99	18.17	18.29	18.12	19.00
20	256QAM	50	0	18.18	18.24	18.12	19.00
20	256QAM	50	24	18.10	18.15	18.00	19.00
20	256QAM	50	50	17.96	18.12	17.97	19.00
20	256QAM	100	0	17.97	18.13	18.08	19.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.14	23.28	23.18	24.00
15	QPSK	1	37	22.94	22.97	22.85	24.00
15	QPSK	1	74	22.90	23.04	22.89	24.00
15	QPSK	36	0	22.23	22.30	22.11	23.00
15	QPSK	36	20	22.02	22.03	21.85	23.00
15	QPSK	36	39	22.01	21.99	21.79	23.00
15	QPSK	75	0	21.95	22.13	21.87	23.00
15	16QAM	1	0	21.98	22.07	21.90	23.00
15	16QAM	1	37	21.93	22.03	21.87	23.00
15	16QAM	1	74	22.15	22.27	22.04	23.00
15	16QAM	36	0	21.03	21.15	21.00	22.00
15	16QAM	36	20	20.95	21.03	20.88	22.00
15	16QAM	36	39	21.16	21.20	21.09	22.00
15	16QAM	75	0	21.08	21.24	21.02	22.00
15	64QAM	1	0	21.01	21.07	21.00	22.00
15	64QAM	1	37	20.96	21.04	20.88	22.00



15	64QAM	1	74	20.85	21.00	20.84	22.00
15	64QAM	36	0	19.92	19.97	19.92	21.00
15	64QAM	36	20	20.09	20.13	20.09	21.00
15	64QAM	36	39	19.83	19.99	19.97	21.00
15	64QAM	75	0	20.25	20.25	20.15	21.00
15	256QAM	1	0	17.97	18.06	17.98	19.00
15	256QAM	1	37	18.16	18.27	18.06	19.00
15	256QAM	1	74	18.04	18.26	18.02	19.00
15	256QAM	36	0	18.11	18.18	18.08	19.00
15	256QAM	36	20	18.04	18.03	17.98	19.00
15	256QAM	36	39	17.95	18.01	17.91	19.00
15	256QAM	75	0	17.90	18.00	17.97	19.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	23.17	23.29	23.13	24.00
10	QPSK	1	25	22.85	23.02	22.80	24.00
10	QPSK	1	49	22.93	23.08	22.84	24.00
10	QPSK	25	0	22.24	22.21	22.13	23.00
10	QPSK	25	12	22.09	22.14	21.98	23.00
10	QPSK	25	25	21.98	22.00	21.79	23.00
10	QPSK	50	0	22.01	22.12	22.00	23.00
10	16QAM	1	0	22.09	22.08	21.98	23.00
10	16QAM	1	25	22.00	22.13	21.91	23.00
10	16QAM	1	49	22.08	22.18	22.15	23.00
10	16QAM	25	0	21.11	21.16	21.00	22.00
10	16QAM	25	12	20.98	21.03	20.86	22.00
10	16QAM	25	25	21.18	21.17	21.10	22.00
10	16QAM	50	0	21.15	21.15	21.12	22.00
10	64QAM	1	0	20.90	21.07	20.99	22.00
10	64QAM	1	25	20.95	21.01	20.84	22.00
10	64QAM	1	49	20.94	21.04	20.80	22.00
10	64QAM	25	0	19.99	19.98	19.89	21.00
10	64QAM	25	12	20.08	20.14	20.10	21.00
10	64QAM	25	25	19.88	20.05	19.96	21.00
10	64QAM	50	0	20.24	20.24	20.15	21.00
10	256QAM	1	0	18.08	18.14	18.00	19.00
10	256QAM	1	25	18.12	18.18	18.08	19.00
10	256QAM	1	49	18.05	18.28	18.03	19.00
10	256QAM	25	0	18.10	18.22	18.08	19.00
10	256QAM	25	12	18.04	18.03	17.98	19.00
10	256QAM	25	25	17.92	17.98	17.84	19.00
10	256QAM	50	0	17.86	18.01	17.93	19.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	23.17	23.27	23.13	24.00
5	QPSK	1	12	22.90	22.96	22.81	24.00
5	QPSK	1	24	22.92	23.07	22.92	24.00
5	QPSK	12	0	22.23	22.24	22.17	23.00
5	QPSK	12	7	22.11	22.09	21.92	23.00
5	QPSK	12	13	21.96	21.97	21.91	23.00
5	QPSK	25	0	21.99	22.09	21.96	23.00
5	16QAM	1	0	21.96	22.04	21.92	23.00
5	16QAM	1	12	21.97	22.09	21.90	23.00
5	16QAM	1	24	22.11	22.25	22.03	23.00
5	16QAM	12	0	21.06	21.07	21.09	22.00
5	16QAM	12	7	20.88	21.14	20.95	22.00
5	16QAM	12	13	21.15	21.29	21.15	22.00
5	16QAM	25	0	21.10	21.19	21.08	22.00
5	64QAM	1	0	20.98	21.15	20.94	22.00
5	64QAM	1	12	20.99	21.08	20.88	22.00
5	64QAM	1	24	20.91	21.05	20.85	22.00
5	64QAM	12	0	19.99	20.04	19.85	21.00
5	64QAM	12	7	20.06	20.12	20.14	21.00
5	64QAM	12	13	19.83	20.03	19.91	21.00
5	64QAM	25	0	20.27	20.31	20.08	21.00
5	256QAM	1	0	18.09	18.13	18.06	19.00
5	256QAM	1	12	18.13	18.17	18.03	19.00
5	256QAM	1	24	18.12	18.14	18.00	19.00
5	256QAM	12	0	18.15	18.23	17.99	19.00
5	256QAM	12	7	18.00	18.03	17.88	19.00
5	256QAM	12	13	17.85	18.03	17.84	19.00
5	256QAM	25	0	17.83	18.03	18.03	19.00

**【LTE Band 38_Ant 3_DSI 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				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.41	22.50	22.43	23.90
20	QPSK	1	49	22.19	22.31	22.10	23.90
20	QPSK	1	99	22.15	22.38	22.26	23.90
20	QPSK	50	0	22.37	22.40	22.34	23.00
20	QPSK	50	24	22.06	22.23	22.13	23.00
20	QPSK	50	50	22.19	22.38	22.23	23.00
20	QPSK	100	0	22.23	22.30	22.50	23.00
20	16QAM	1	0	22.09	22.26	22.07	23.00
20	16QAM	1	49	22.14	22.35	22.22	23.00
20	16QAM	1	99	22.20	22.32	22.18	23.00
20	16QAM	50	0	21.12	21.23	21.15	22.00
20	16QAM	50	24	21.17	21.38	21.19	22.00
20	16QAM	50	50	21.14	21.27	21.08	22.00
20	16QAM	100	0	21.16	21.31	21.17	22.00
20	64QAM	1	0	21.14	21.34	21.22	22.00
20	64QAM	1	49	21.15	21.26	21.16	22.00
20	64QAM	1	99	21.14	21.29	21.11	22.00
20	64QAM	50	0	20.18	20.38	20.22	21.00
20	64QAM	50	24	20.08	20.23	20.12	21.00
20	64QAM	50	50	20.19	20.32	20.24	21.00
20	64QAM	100	0	20.11	20.31	20.14	21.00
20	256QAM	1	0	18.20	18.33	18.20	19.00
20	256QAM	1	49	18.06	18.23	18.12	19.00
20	256QAM	1	99	18.17	18.38	18.28	19.00
20	256QAM	50	0	18.14	18.27	18.12	19.00
20	256QAM	50	24	18.22	18.35	18.24	19.00
20	256QAM	50	50	18.14	18.28	18.18	19.00
20	256QAM	100	0	18.16	18.27	18.10	19.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.34	22.45	22.38	23.90
15	QPSK	1	37	22.13	22.29	21.97	23.90
15	QPSK	1	74	22.02	22.25	22.23	23.90
15	QPSK	36	0	22.34	22.34	22.33	23.00
15	QPSK	36	20	21.97	22.19	22.04	23.00
15	QPSK	36	39	22.14	22.25	22.14	23.00
15	QPSK	75	0	22.10	22.24	22.36	23.00
15	16QAM	1	0	21.95	22.14	21.99	23.00
15	16QAM	1	37	22.13	22.23	22.08	23.00
15	16QAM	1	74	22.12	22.29	22.09	23.00
15	16QAM	36	0	21.00	21.17	21.09	22.00
15	16QAM	36	20	21.08	21.30	21.15	22.00
15	16QAM	36	39	21.03	21.18	21.01	22.00
15	16QAM	75	0	21.11	21.19	21.10	22.00
15	64QAM	1	0	21.02	21.24	21.20	22.00
15	64QAM	1	37	21.06	21.22	21.11	22.00
15	64QAM	1	74	21.02	21.16	21.02	22.00
15	64QAM	36	0	20.16	20.29	20.14	21.00
15	64QAM	36	20	19.96	20.12	19.97	21.00
15	64QAM	36	39	20.14	20.30	20.21	21.00
15	64QAM	75	0	20.02	20.22	20.03	21.00
15	256QAM	1	0	18.09	18.26	18.06	19.00
15	256QAM	1	37	17.99	18.10	18.09	19.00
15	256QAM	1	74	18.10	18.25	18.17	19.00
15	256QAM	36	0	18.01	18.25	17.98	19.00
15	256QAM	36	20	18.09	18.32	18.21	19.00
15	256QAM	36	39	18.04	18.22	18.10	19.00
15	256QAM	75	0	18.03	18.24	17.96	19.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.34	22.49	22.40	23.90
10	QPSK	1	25	22.11	22.17	21.96	23.90
10	QPSK	1	49	22.12	22.28	22.18	23.90
10	QPSK	25	0	22.28	22.28	22.22	23.00
10	QPSK	25	12	21.92	22.12	22.02	23.00
10	QPSK	25	25	22.06	22.35	22.20	23.00
10	QPSK	50	0	22.20	22.18	22.37	23.00
10	16QAM	1	0	22.00	22.20	22.05	23.00
10	16QAM	1	25	22.09	22.33	22.11	23.00
10	16QAM	1	49	22.16	22.21	22.08	23.00
10	16QAM	25	0	20.98	21.12	21.02	22.00
10	16QAM	25	12	21.05	21.35	21.04	22.00



10	16QAM	25	25	21.07	21.24	20.94	22.00
10	16QAM	50	0	21.13	21.19	21.05	22.00
10	64QAM	1	0	21.09	21.20	21.09	22.00
10	64QAM	1	25	21.05	21.11	21.02	22.00
10	64QAM	1	49	21.03	21.17	21.08	22.00
10	64QAM	25	0	20.06	20.36	20.07	21.00
10	64QAM	25	12	20.03	20.16	20.02	21.00
10	64QAM	25	25	20.14	20.21	20.17	21.00
10	64QAM	50	0	20.00	20.24	20.02	21.00
10	256QAM	1	0	18.06	18.19	18.12	19.00
10	256QAM	1	25	17.94	18.19	18.10	19.00
10	256QAM	1	49	18.03	18.36	18.27	19.00
10	256QAM	25	0	18.03	18.13	18.10	19.00
10	256QAM	25	12	18.19	18.33	18.22	19.00
10	256QAM	25	25	18.05	18.26	18.12	19.00
10	256QAM	50	0	18.01	18.13	17.97	19.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.37	22.40	22.36	23.90
5	QPSK	1	12	22.10	22.29	22.01	23.90
5	QPSK	1	24	22.11	22.25	22.24	23.90
5	QPSK	12	0	22.32	22.30	22.32	23.00
5	QPSK	12	7	21.96	22.13	21.99	23.00
5	QPSK	12	13	22.14	22.25	22.14	23.00
5	QPSK	25	0	22.17	22.19	22.42	23.00
5	16QAM	1	0	22.04	22.22	22.02	23.00
5	16QAM	1	12	22.03	22.25	22.12	23.00
5	16QAM	1	24	22.18	22.22	22.09	23.00
5	16QAM	12	0	21.05	21.11	21.04	22.00
5	16QAM	12	7	21.10	21.27	21.11	22.00
5	16QAM	12	13	21.06	21.23	20.99	22.00
5	16QAM	25	0	21.08	21.18	21.04	22.00
5	64QAM	1	0	21.06	21.26	21.10	22.00
5	64QAM	1	12	21.11	21.23	21.11	22.00
5	64QAM	1	24	21.07	21.24	20.96	22.00
5	64QAM	12	0	20.07	20.35	20.08	21.00
5	64QAM	12	7	19.93	20.14	20.02	21.00
5	64QAM	12	13	20.11	20.25	20.20	21.00
5	64QAM	25	0	19.97	20.23	19.99	21.00
5	256QAM	1	0	18.09	18.18	18.12	19.00
5	256QAM	1	12	17.91	18.15	18.01	19.00
5	256QAM	1	24	18.15	18.23	18.19	19.00
5	256QAM	12	0	18.11	18.20	17.98	19.00
5	256QAM	12	7	18.15	18.26	18.12	19.00
5	256QAM	12	13	18.06	18.25	18.16	19.00
5	256QAM	25	0	18.13	18.18	18.06	19.00

【LTE Band 38_Ant 3_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	17.46	17.51	17.47	18.60
20	QPSK	1	49	17.02	17.20	17.06	18.60
20	QPSK	1	99	17.23	17.32	17.15	18.60
20	QPSK	50	0	17.43	17.49	17.44	18.60
20	QPSK	50	24	17.02	17.18	17.03	18.60
20	QPSK	50	50	17.21	17.32	17.16	18.60
20	QPSK	100	0	17.35	17.38	17.33	18.60
20	16QAM	1	0	17.34	17.53	17.36	18.60
20	16QAM	1	49	17.39	17.45	17.30	18.60
20	16QAM	1	99	17.26	17.34	17.16	18.60
20	16QAM	50	0	17.07	17.25	17.13	18.60
20	16QAM	50	24	17.03	17.22	17.12	18.60
20	16QAM	50	50	17.20	17.28	17.09	18.60
20	16QAM	100	0	17.25	17.40	17.33	18.60
20	64QAM	1	0	17.19	17.35	17.30	18.60
20	64QAM	1	49	17.09	17.22	17.16	18.60
20	64QAM	1	99	17.24	17.39	17.24	18.60
20	64QAM	50	0	17.20	17.30	17.14	18.60
20	64QAM	50	24	16.97	17.12	17.05	18.60
20	64QAM	50	50	17.11	17.25	17.16	18.60



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20	64QAM	100	0	17.05	17.14	16.99	18.60
20	256QAM	1	0	17.34	17.42	17.26	18.60
20	256QAM	1	49	17.15	17.34	17.23	18.60
20	256QAM	1	99	17.15	17.33	17.24	18.60
20	256QAM	50	0	17.22	17.41	17.32	18.60
20	256QAM	50	24	17.12	17.26	17.16	18.60
20	256QAM	50	50	17.31	17.41	17.33	18.60
20	256QAM	100	0	17.27	17.36	17.21	18.60
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	(dBm)
15	QPSK	1	0	17.33	17.38	17.44	18.60
15	QPSK	1	37	16.99	17.09	16.91	18.60
15	QPSK	1	74	17.16	17.29	17.04	18.60
15	QPSK	36	0	17.33	17.45	17.36	18.60
15	QPSK	36	20	17.01	17.07	16.95	18.60
15	QPSK	36	39	17.17	17.25	17.01	18.60
15	QPSK	75	0	17.22	17.28	17.24	18.60
15	16QAM	1	0	17.29	17.50	17.25	18.60
15	16QAM	1	37	17.26	17.42	17.16	18.60
15	16QAM	1	74	17.20	17.30	17.04	18.60
15	16QAM	36	0	17.04	17.16	17.06	18.60
15	16QAM	36	20	16.92	17.14	17.08	18.60
15	16QAM	36	39	17.12	17.27	16.99	18.60
15	16QAM	75	0	17.13	17.32	17.25	18.60
15	64QAM	1	0	17.06	17.33	17.19	18.60
15	64QAM	1	37	17.07	17.13	17.09	18.60
15	64QAM	1	74	17.16	17.38	17.10	18.60
15	64QAM	36	0	17.12	17.16	17.06	18.60
15	64QAM	36	20	16.92	17.03	17.02	18.60
15	64QAM	36	39	17.08	17.21	17.05	18.60
15	64QAM	75	0	17.00	17.12	16.85	18.60
15	256QAM	1	0	17.31	17.28	17.13	18.60
15	256QAM	1	37	17.09	17.30	17.08	18.60
15	256QAM	1	74	17.08	17.25	17.22	18.60
15	256QAM	36	0	17.08	17.38	17.26	18.60
15	256QAM	36	20	17.01	17.12	17.02	18.60
15	256QAM	36	39	17.19	17.34	17.18	18.60
15	256QAM	75	0	17.26	17.26	17.09	18.60
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	17.40	17.42	17.33	18.60
10	QPSK	1	25	16.94	17.13	17.00	18.60
10	QPSK	1	49	17.12	17.18	17.05	18.60
10	QPSK	25	0	17.28	17.41	17.33	18.60
10	QPSK	25	12	16.99	17.12	16.88	18.60
10	QPSK	25	25	17.10	17.25	17.07	18.60
10	QPSK	50	0	17.33	17.35	17.21	18.60
10	16QAM	1	0	17.27	17.45	17.26	18.60
10	16QAM	1	25	17.25	17.35	17.19	18.60
10	16QAM	1	49	17.19	17.28	17.06	18.60
10	16QAM	25	0	16.97	17.16	17.12	18.60
10	16QAM	25	12	16.92	17.10	17.10	18.60
10	16QAM	25	25	17.12	17.25	16.98	18.60
10	16QAM	50	0	17.11	17.28	17.28	18.60
10	64QAM	1	0	17.05	17.25	17.24	18.60
10	64QAM	1	25	17.03	17.13	17.03	18.60
10	64QAM	1	49	17.19	17.34	17.14	18.60
10	64QAM	25	0	17.05	17.17	17.06	18.60
10	64QAM	25	12	16.84	16.98	17.03	18.60
10	64QAM	25	25	17.10	17.24	17.09	18.60
10	64QAM	50	0	16.99	17.00	16.96	18.60
10	256QAM	1	0	17.29	17.36	17.24	18.60
10	256QAM	1	25	17.09	17.30	17.19	18.60
10	256QAM	1	49	17.13	17.20	17.13	18.60
10	256QAM	25	0	17.21	17.31	17.19	18.60
10	256QAM	25	12	17.03	17.18	17.04	18.60
10	256QAM	25	25	17.29	17.26	17.18	18.60
10	256QAM	50	0	17.18	17.32	17.07	18.60
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	17.41	17.46	17.41	18.60
5	QPSK	1	12	16.90	17.13	16.98	18.60
5	QPSK	1	24	17.10	17.17	17.09	18.60
5	QPSK	12	0	17.41	17.36	17.31	18.60
5	QPSK	12	7	16.99	17.07	17.02	18.60
5	QPSK	12	13	17.08	17.30	17.07	18.60
5	QPSK	25	0	17.26	17.32	17.31	18.60
5	16QAM	1	0	17.26	17.43	17.23	18.60



5	16QAM	1	12	17.36	17.30	17.16	18.60
5	16QAM	1	24	17.25	17.19	17.06	18.60
5	16QAM	12	0	16.95	17.20	17.01	18.60
5	16QAM	12	7	16.91	17.19	17.06	18.60
5	16QAM	12	13	17.19	17.20	16.97	18.60
5	16QAM	25	0	17.18	17.30	17.18	18.60
5	64QAM	1	0	17.11	17.21	17.19	18.60
5	64QAM	1	12	17.01	17.17	17.15	18.60
5	64QAM	1	24	17.11	17.30	17.20	18.60
5	64QAM	12	0	17.13	17.20	17.12	18.60
5	64QAM	12	7	16.87	16.99	16.94	18.60
5	64QAM	12	13	17.10	17.12	17.10	18.60
5	64QAM	25	0	17.02	17.01	16.90	18.60
5	256QAM	1	0	17.21	17.28	17.22	18.60
5	256QAM	1	12	17.06	17.20	17.17	18.60
5	256QAM	1	24	17.11	17.22	17.10	18.60
5	256QAM	12	0	17.08	17.35	17.29	18.60
5	256QAM	12	7	17.07	17.11	17.07	18.60
5	256QAM	12	13	17.21	17.32	17.26	18.60
5	256QAM	25	0	17.17	17.22	17.07	18.60

【LTE Band 38_Ant 3_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	13.49	13.69	13.66	15.00
20	QPSK	1	49	13.51	13.56	13.54	15.00
20	QPSK	1	99	13.45	13.65	13.45	15.00
20	QPSK	50	0	13.45	13.68	13.55	15.00
20	QPSK	50	24	13.46	13.55	13.44	15.00
20	QPSK	50	50	13.51	13.55	13.59	15.00
20	QPSK	100	0	13.49	13.54	13.49	15.00
20	16QAM	1	0	13.43	13.52	13.53	15.00
20	16QAM	1	49	13.56	13.57	13.48	15.00
20	16QAM	1	99	13.42	13.51	13.53	15.00
20	16QAM	50	0	13.48	13.48	13.51	15.00
20	16QAM	50	24	13.45	13.52	13.51	15.00
20	16QAM	50	50	13.41	13.50	13.48	15.00
20	16QAM	100	0	13.49	13.51	13.46	15.00
20	64QAM	1	0	13.52	13.45	13.49	15.00
20	64QAM	1	49	13.48	13.53	13.49	15.00
20	64QAM	1	99	13.39	13.45	13.50	15.00
20	64QAM	50	0	13.49	13.55	13.49	15.00
20	64QAM	50	24	13.43	13.62	13.50	15.00
20	64QAM	50	50	13.51	13.49	13.46	15.00
20	64QAM	100	0	13.47	13.62	13.48	15.00
20	256QAM	1	0	13.51	13.48	13.54	15.00
20	256QAM	1	49	13.41	13.60	13.51	15.00
20	256QAM	1	99	13.43	13.48	13.49	15.00
20	256QAM	50	0	13.48	13.59	13.55	15.00
20	256QAM	50	24	13.49	13.43	13.51	15.00
20	256QAM	50	50	13.50	13.54	13.58	15.00
20	256QAM	100	0	13.47	13.49	13.48	15.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	13.35	13.64	13.56	15.00
15	QPSK	1	37	13.39	13.53	13.49	15.00
15	QPSK	1	74	13.40	13.62	13.41	15.00
15	QPSK	36	0	13.39	13.54	13.44	15.00
15	QPSK	36	20	13.42	13.43	13.39	15.00
15	QPSK	36	39	13.40	13.51	13.50	15.00
15	QPSK	75	0	13.36	13.50	13.46	15.00
15	16QAM	1	0	13.37	13.45	13.49	15.00
15	16QAM	1	37	13.44	13.50	13.44	15.00
15	16QAM	1	74	13.33	13.49	13.47	15.00
15	16QAM	36	0	13.38	13.41	13.40	15.00
15	16QAM	36	20	13.35	13.51	13.37	15.00
15	16QAM	36	39	13.37	13.38	13.41	15.00
15	16QAM	75	0	13.37	13.40	13.38	15.00
15	64QAM	1	0	13.49	13.39	13.37	15.00
15	64QAM	1	37	13.45	13.40	13.41	15.00



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15	64QAM	1	74	13.37	13.32	13.48	15.00
15	64QAM	36	0	13.43	13.50	13.42	15.00
15	64QAM	36	20	13.34	13.58	13.44	15.00
15	64QAM	36	39	13.44	13.45	13.44	15.00
15	64QAM	75	0	13.37	13.49	13.46	15.00
15	256QAM	1	0	13.41	13.34	13.44	15.00
15	256QAM	1	37	13.40	13.48	13.43	15.00
15	256QAM	1	74	13.33	13.47	13.45	15.00
15	256QAM	36	0	13.37	13.49	13.49	15.00
15	256QAM	36	20	13.35	13.35	13.47	15.00
15	256QAM	36	39	13.37	13.44	13.48	15.00
15	256QAM	75	0	13.34	13.35	13.44	15.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	13.34	13.67	13.60	15.00
10	QPSK	1	25	13.41	13.53	13.46	15.00
10	QPSK	1	49	13.36	13.52	13.36	15.00
10	QPSK	25	0	13.42	13.65	13.42	15.00
10	QPSK	25	12	13.45	13.40	13.35	15.00
10	QPSK	25	25	13.45	13.53	13.57	15.00
10	QPSK	50	0	13.45	13.40	13.43	15.00
10	16QAM	1	0	13.35	13.39	13.42	15.00
10	16QAM	1	25	13.50	13.49	13.38	15.00
10	16QAM	1	49	13.28	13.39	13.43	15.00
10	16QAM	25	0	13.46	13.41	13.45	15.00
10	16QAM	25	12	13.34	13.40	13.46	15.00
10	16QAM	25	25	13.28	13.43	13.44	15.00
10	16QAM	50	0	13.41	13.42	13.43	15.00
10	64QAM	1	0	13.44	13.37	13.40	15.00
10	64QAM	1	25	13.45	13.38	13.35	15.00
10	64QAM	1	49	13.33	13.38	13.43	15.00
10	64QAM	25	0	13.41	13.47	13.46	15.00
10	64QAM	25	12	13.36	13.48	13.39	15.00
10	64QAM	25	25	13.41	13.48	13.39	15.00
10	64QAM	50	0	13.39	13.57	13.47	15.00
10	256QAM	1	0	13.46	13.37	13.43	15.00
10	256QAM	1	25	13.32	13.55	13.45	15.00
10	256QAM	1	49	13.32	13.34	13.37	15.00
10	256QAM	25	0	13.35	13.46	13.46	15.00
10	256QAM	25	12	13.37	13.34	13.41	15.00
10	256QAM	25	25	13.36	13.47	13.49	15.00
10	256QAM	50	0	13.41	13.42	13.39	15.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	13.41	13.63	13.65	15.00
5	QPSK	1	12	13.46	13.53	13.47	15.00
5	QPSK	1	24	13.43	13.61	13.31	15.00
5	QPSK	12	0	13.36	13.58	13.47	15.00
5	QPSK	12	7	13.34	13.48	13.41	15.00
5	QPSK	12	13	13.44	13.54	13.52	15.00
5	QPSK	25	0	13.35	13.50	13.41	15.00
5	16QAM	1	0	13.37	13.44	13.49	15.00
5	16QAM	1	12	13.52	13.49	13.42	15.00
5	16QAM	1	24	13.33	13.44	13.50	15.00
5	16QAM	12	0	13.42	13.42	13.43	15.00
5	16QAM	12	7	13.41	13.46	13.45	15.00
5	16QAM	12	13	13.40	13.45	13.45	15.00
5	16QAM	25	0	13.39	13.41	13.33	15.00
5	64QAM	1	0	13.50	13.44	13.37	15.00
5	64QAM	1	12	13.35	13.48	13.41	15.00
5	64QAM	1	24	13.35	13.36	13.38	15.00
5	64QAM	12	0	13.45	13.42	13.43	15.00
5	64QAM	12	7	13.42	13.61	13.43	15.00
5	64QAM	12	13	13.37	13.40	13.36	15.00
5	64QAM	25	0	13.37	13.56	13.38	15.00
5	256QAM	1	0	13.50	13.34	13.46	15.00
5	256QAM	1	12	13.39	13.47	13.48	15.00
5	256QAM	1	24	13.40	13.37	13.46	15.00
5	256QAM	12	0	13.42	13.50	13.50	15.00
5	256QAM	12	7	13.47	13.34	13.48	15.00
5	256QAM	12	13	13.41	13.45	13.48	15.00
5	256QAM	25	0	13.44	13.46	13.35	15.00



【LTE Band 38_Ant 4_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.92	21.96	21.87	23.00
20	QPSK	1	49	21.65	21.76	21.53	23.00
20	QPSK	1	99	21.55	21.65	21.54	23.00
20	QPSK	50	0	20.92	20.96	20.95	22.00
20	QPSK	50	24	20.64	20.75	20.64	22.00
20	QPSK	50	50	20.71	20.86	20.70	22.00
20	QPSK	100	0	20.86	20.92	20.70	22.00
20	16QAM	1	0	20.61	20.78	20.65	22.00
20	16QAM	1	49	20.74	20.83	20.64	22.00
20	16QAM	1	99	20.76	20.84	20.65	22.00
20	16QAM	50	0	19.83	19.88	19.74	21.00
20	16QAM	50	24	19.84	19.93	19.81	21.00
20	16QAM	50	50	19.86	19.92	19.73	21.00
20	16QAM	100	0	19.81	19.94	19.73	21.00
20	64QAM	1	0	19.74	19.84	19.63	21.00
20	64QAM	1	49	19.83	19.96	19.75	21.00
20	64QAM	1	99	19.78	19.88	19.67	21.00
20	64QAM	50	0	18.68	18.86	18.70	20.00
20	64QAM	50	24	18.62	18.80	18.71	20.00
20	64QAM	50	50	18.70	18.83	18.66	20.00
20	64QAM	100	0	18.81	18.97	18.78	20.00
20	256QAM	1	0	16.66	16.82	16.74	18.00
20	256QAM	1	49	16.70	16.86	16.70	18.00
20	256QAM	1	99	16.79	16.91	16.78	18.00
20	256QAM	50	0	16.63	16.79	16.64	18.00
20	256QAM	50	24	16.90	16.97	16.82	18.00
20	256QAM	50	50	16.80	16.85	16.75	18.00
20	256QAM	100	0	16.73	16.81	16.62	18.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.86	21.90	21.74	23.00
15	QPSK	1	37	21.58	21.73	21.39	23.00
15	QPSK	1	74	21.49	21.59	21.51	23.00
15	QPSK	36	0	20.83	20.83	20.90	22.00
15	QPSK	36	20	20.50	20.61	20.60	22.00
15	QPSK	36	39	20.62	20.82	20.57	22.00
15	QPSK	75	0	20.72	20.89	20.62	22.00
15	16QAM	1	0	20.60	20.67	20.51	22.00
15	16QAM	1	37	20.71	20.73	20.63	22.00
15	16QAM	1	74	20.68	20.80	20.59	22.00
15	16QAM	36	0	19.77	19.75	19.64	21.00
15	16QAM	36	20	19.82	19.83	19.71	21.00
15	16QAM	36	39	19.73	19.81	19.62	21.00
15	16QAM	75	0	19.76	19.86	19.64	21.00
15	64QAM	1	0	19.72	19.77	19.62	21.00
15	64QAM	1	37	19.78	19.84	19.63	21.00
15	64QAM	1	74	19.72	19.84	19.54	21.00
15	64QAM	36	0	18.57	18.85	18.62	20.00
15	64QAM	36	20	18.58	18.79	18.59	20.00
15	64QAM	36	39	18.59	18.71	18.61	20.00
15	64QAM	75	0	18.79	18.85	18.67	20.00
15	256QAM	1	0	16.52	16.70	16.66	18.00
15	256QAM	1	37	16.65	16.74	16.68	18.00
15	256QAM	1	74	16.69	16.88	16.64	18.00
15	256QAM	36	0	16.51	16.75	16.62	18.00
15	256QAM	36	20	16.85	16.91	16.72	18.00
15	256QAM	36	39	16.69	16.73	16.73	18.00
15	256QAM	75	0	16.68	16.77	16.58	18.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.82	21.85	21.79	23.00
10	QPSK	1	25	21.62	21.62	21.50	23.00
10	QPSK	1	49	21.49	21.54	21.45	23.00
10	QPSK	25	0	20.90	20.86	20.91	22.00
10	QPSK	25	12	20.57	20.64	20.59	22.00
10	QPSK	25	25	20.64	20.73	20.62	22.00
10	QPSK	50	0	20.72	20.80	20.68	22.00
10	16QAM	1	0	20.58	20.71	20.55	22.00
10	16QAM	1	25	20.62	20.76	20.62	22.00
10	16QAM	1	49	20.62	20.69	20.57	22.00
10	16QAM	25	0	19.71	19.78	19.66	21.00
10	16QAM	25	12	19.82	19.88	19.72	21.00



10	16QAM	25	25	19.83	19.87	19.70	21.00
10	16QAM	50	0	19.76	19.84	19.60	21.00
10	64QAM	1	0	19.66	19.76	19.55	21.00
10	64QAM	1	25	19.70	19.93	19.67	21.00
10	64QAM	1	49	19.76	19.79	19.64	21.00
10	64QAM	25	0	18.58	18.77	18.64	20.00
10	64QAM	25	12	18.50	18.67	18.69	20.00
10	64QAM	25	25	18.60	18.82	18.58	20.00
10	64QAM	50	0	18.75	18.86	18.65	20.00
10	256QAM	1	0	16.55	16.73	16.63	18.00
10	256QAM	1	25	16.58	16.82	16.61	18.00
10	256QAM	1	49	16.78	16.80	16.66	18.00
10	256QAM	25	0	16.57	16.72	16.55	18.00
10	256QAM	25	12	16.79	16.85	16.81	18.00
10	256QAM	25	25	16.71	16.77	16.68	18.00
10	256QAM	50	0	16.69	16.74	16.48	18.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.82	21.92	21.86	23.00
5	QPSK	1	12	21.52	21.62	21.41	23.00
5	QPSK	1	24	21.51	21.61	21.44	23.00
5	QPSK	12	0	20.85	20.86	20.85	22.00
5	QPSK	12	7	20.50	20.61	20.60	22.00
5	QPSK	12	13	20.59	20.80	20.57	22.00
5	QPSK	25	0	20.73	20.80	20.56	22.00
5	16QAM	1	0	20.47	20.71	20.59	22.00
5	16QAM	1	12	20.67	20.73	20.50	22.00
5	16QAM	1	24	20.72	20.72	20.52	22.00
5	16QAM	12	0	19.75	19.79	19.62	21.00
5	16QAM	12	7	19.74	19.91	19.79	21.00
5	16QAM	12	13	19.75	19.88	19.67	21.00
5	16QAM	25	0	19.74	19.93	19.72	21.00
5	64QAM	1	0	19.65	19.82	19.49	21.00
5	64QAM	1	12	19.78	19.85	19.66	21.00
5	64QAM	1	24	19.66	19.74	19.60	21.00
5	64QAM	12	0	18.64	18.80	18.60	20.00
5	64QAM	12	7	18.59	18.65	18.60	20.00
5	64QAM	12	13	18.63	18.75	18.52	20.00
5	64QAM	25	0	18.68	18.87	18.66	20.00
5	256QAM	1	0	16.54	16.67	16.72	18.00
5	256QAM	1	12	16.63	16.75	16.59	18.00
5	256QAM	1	24	16.76	16.84	16.66	18.00
5	256QAM	12	0	16.48	16.72	16.57	18.00
5	256QAM	12	7	16.86	16.87	16.77	18.00
5	256QAM	12	13	16.69	16.76	16.71	18.00
5	256QAM	25	0	16.60	16.73	16.59	18.00

【LTE Band 38_Ant 4_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.92	21.96	21.87	23.00
20	QPSK	1	49	21.65	21.76	21.53	23.00
20	QPSK	1	99	21.55	21.65	21.54	23.00
20	QPSK	50	0	20.92	20.96	20.95	22.00
20	QPSK	50	24	20.64	20.75	20.64	22.00
20	QPSK	50	50	20.71	20.86	20.70	22.00
20	QPSK	100	0	20.86	20.92	20.70	22.00
20	16QAM	1	0	20.61	20.78	20.65	22.00
20	16QAM	1	49	20.74	20.83	20.64	22.00
20	16QAM	1	99	20.76	20.84	20.65	22.00
20	16QAM	50	0	19.83	19.88	19.74	21.00
20	16QAM	50	24	19.84	19.93	19.81	21.00
20	16QAM	50	50	19.86	19.92	19.73	21.00
20	16QAM	100	0	19.81	19.94	19.73	21.00
20	64QAM	1	0	19.74	19.84	19.63	21.00
20	64QAM	1	49	19.83	19.96	19.75	21.00
20	64QAM	1	99	19.78	19.88	19.67	21.00
20	64QAM	50	0	18.68	18.86	18.70	20.00
20	64QAM	50	24	18.62	18.80	18.71	20.00
20	64QAM	50	50	18.70	18.83	18.66	20.00



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20	64QAM	100	0	18.81	18.97	18.78	20.00
20	256QAM	1	0	16.66	16.82	16.74	18.00
20	256QAM	1	49	16.70	16.86	16.70	18.00
20	256QAM	1	99	16.79	16.91	16.78	18.00
20	256QAM	50	0	16.63	16.79	16.64	18.00
20	256QAM	50	24	16.90	16.97	16.82	18.00
20	256QAM	50	50	16.80	16.85	16.75	18.00
20	256QAM	100	0	16.73	16.81	16.62	18.00
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	(dBm)
15	QPSK	1	0	21.86	21.90	21.74	23.00
15	QPSK	1	37	21.58	21.73	21.39	23.00
15	QPSK	1	74	21.49	21.59	21.51	23.00
15	QPSK	36	0	20.83	20.83	20.90	22.00
15	QPSK	36	20	20.50	20.61	20.60	22.00
15	QPSK	36	39	20.62	20.82	20.57	22.00
15	QPSK	75	0	20.72	20.89	20.62	22.00
15	16QAM	1	0	20.60	20.67	20.51	22.00
15	16QAM	1	37	20.71	20.73	20.63	22.00
15	16QAM	1	74	20.68	20.80	20.59	22.00
15	16QAM	36	0	19.77	19.75	19.64	21.00
15	16QAM	36	20	19.82	19.83	19.71	21.00
15	16QAM	36	39	19.73	19.81	19.62	21.00
15	16QAM	75	0	19.76	19.86	19.64	21.00
15	64QAM	1	0	19.72	19.77	19.62	21.00
15	64QAM	1	37	19.78	19.84	19.63	21.00
15	64QAM	1	74	19.72	19.84	19.54	21.00
15	64QAM	36	0	18.57	18.85	18.62	20.00
15	64QAM	36	20	18.58	18.79	18.59	20.00
15	64QAM	36	39	18.59	18.71	18.61	20.00
15	64QAM	75	0	18.79	18.85	18.67	20.00
15	256QAM	1	0	16.52	16.70	16.66	18.00
15	256QAM	1	37	16.65	16.74	16.68	18.00
15	256QAM	1	74	16.69	16.88	16.64	18.00
15	256QAM	36	0	16.51	16.75	16.62	18.00
15	256QAM	36	20	16.85	16.91	16.72	18.00
15	256QAM	36	39	16.69	16.73	16.73	18.00
15	256QAM	75	0	16.68	16.77	16.58	18.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	21.82	21.85	21.79	23.00
10	QPSK	1	25	21.62	21.62	21.50	23.00
10	QPSK	1	49	21.49	21.54	21.45	23.00
10	QPSK	25	0	20.90	20.86	20.91	22.00
10	QPSK	25	12	20.57	20.64	20.59	22.00
10	QPSK	25	25	20.64	20.73	20.62	22.00
10	QPSK	50	0	20.72	20.80	20.68	22.00
10	16QAM	1	0	20.58	20.71	20.55	22.00
10	16QAM	1	25	20.62	20.76	20.62	22.00
10	16QAM	1	49	20.62	20.69	20.57	22.00
10	16QAM	25	0	19.71	19.78	19.66	21.00
10	16QAM	25	12	19.82	19.88	19.72	21.00
10	16QAM	25	25	19.83	19.87	19.70	21.00
10	16QAM	50	0	19.76	19.84	19.60	21.00
10	64QAM	1	0	19.66	19.76	19.55	21.00
10	64QAM	1	25	19.70	19.93	19.67	21.00
10	64QAM	1	49	19.76	19.79	19.64	21.00
10	64QAM	25	0	18.58	18.77	18.64	20.00
10	64QAM	25	12	18.50	18.67	18.69	20.00
10	64QAM	25	25	18.60	18.82	18.58	20.00
10	64QAM	50	0	18.75	18.86	18.65	20.00
10	256QAM	1	0	16.55	16.73	16.63	18.00
10	256QAM	1	25	16.58	16.82	16.61	18.00
10	256QAM	1	49	16.78	16.80	16.66	18.00
10	256QAM	25	0	16.57	16.72	16.55	18.00
10	256QAM	25	12	16.79	16.85	16.81	18.00
10	256QAM	25	25	16.71	16.77	16.68	18.00
10	256QAM	50	0	16.69	16.74	16.48	18.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	21.82	21.92	21.86	23.00
5	QPSK	1	12	21.52	21.62	21.41	23.00
5	QPSK	1	24	21.51	21.61	21.44	23.00
5	QPSK	12	0	20.85	20.86	20.85	22.00
5	QPSK	12	7	20.50	20.61	20.60	22.00
5	QPSK	12	13	20.59	20.80	20.57	22.00
5	QPSK	25	0	20.73	20.80	20.56	22.00
5	16QAM	1	0	20.47	20.71	20.59	22.00



5	16QAM	1	12	20.67	20.73	20.50	22.00
5	16QAM	1	24	20.72	20.72	20.52	22.00
5	16QAM	12	0	19.75	19.79	19.62	21.00
5	16QAM	12	7	19.74	19.91	19.79	21.00
5	16QAM	12	13	19.75	19.88	19.67	21.00
5	16QAM	25	0	19.74	19.93	19.72	21.00
5	64QAM	1	0	19.65	19.82	19.49	21.00
5	64QAM	1	12	19.78	19.85	19.66	21.00
5	64QAM	1	24	19.66	19.74	19.60	21.00
5	64QAM	12	0	18.64	18.80	18.60	20.00
5	64QAM	12	7	18.59	18.65	18.60	20.00
5	64QAM	12	13	18.63	18.75	18.52	20.00
5	64QAM	25	0	18.68	18.87	18.66	20.00
5	256QAM	1	0	16.54	16.67	16.72	18.00
5	256QAM	1	12	16.63	16.75	16.59	18.00
5	256QAM	1	24	16.76	16.84	16.66	18.00
5	256QAM	12	0	16.48	16.72	16.57	18.00
5	256QAM	12	7	16.86	16.87	16.77	18.00
5	256QAM	12	13	16.69	16.76	16.71	18.00
5	256QAM	25	0	16.60	16.73	16.59	18.00

【LTE Band 38_Ant 4_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.92	21.96	21.87	22.90
20	QPSK	1	49	21.65	21.76	21.53	22.90
20	QPSK	1	99	21.55	21.65	21.54	22.90
20	QPSK	50	0	20.92	20.96	20.95	21.90
20	QPSK	50	24	20.64	20.75	20.64	21.90
20	QPSK	50	50	20.71	20.86	20.70	21.90
20	QPSK	100	0	20.86	20.92	20.70	21.90
20	16QAM	1	0	20.61	20.78	20.65	21.90
20	16QAM	1	49	20.74	20.83	20.64	21.90
20	16QAM	1	99	20.76	20.84	20.65	21.90
20	16QAM	50	0	19.83	19.88	19.74	20.90
20	16QAM	50	24	19.84	19.93	19.81	20.90
20	16QAM	50	50	19.86	19.92	19.73	20.90
20	16QAM	100	0	19.81	19.94	19.73	20.90
20	64QAM	1	0	19.74	19.84	19.63	20.90
20	64QAM	1	49	19.83	19.96	19.75	20.90
20	64QAM	1	99	19.78	19.88	19.67	20.90
20	64QAM	50	0	18.68	18.86	18.70	19.90
20	64QAM	50	24	18.62	18.80	18.71	19.90
20	64QAM	50	50	18.70	18.83	18.66	19.90
20	64QAM	100	0	18.81	18.97	18.78	19.90
20	256QAM	1	0	16.66	16.82	16.74	17.90
20	256QAM	1	49	16.70	16.86	16.70	17.90
20	256QAM	1	99	16.79	16.91	16.78	17.90
20	256QAM	50	0	16.63	16.79	16.64	17.90
20	256QAM	50	24	16.90	16.97	16.82	17.90
20	256QAM	50	50	16.80	16.85	16.75	17.90
20	256QAM	100	0	16.73	16.81	16.62	17.90
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.86	21.90	21.74	22.90
15	QPSK	1	37	21.58	21.73	21.39	22.90
15	QPSK	1	74	21.49	21.59	21.51	22.90
15	QPSK	36	0	20.83	20.83	20.90	21.90
15	QPSK	36	20	20.50	20.61	20.60	21.90
15	QPSK	36	39	20.62	20.82	20.57	21.90
15	QPSK	75	0	20.72	20.89	20.62	21.90
15	16QAM	1	0	20.60	20.67	20.51	21.90
15	16QAM	1	37	20.71	20.73	20.63	21.90
15	16QAM	1	74	20.68	20.80	20.59	21.90
15	16QAM	36	0	19.77	19.75	19.64	20.90
15	16QAM	36	20	19.82	19.83	19.71	20.90
15	16QAM	36	39	19.73	19.81	19.62	20.90
15	16QAM	75	0	19.76	19.86	19.64	20.90
15	64QAM	1	0	19.72	19.77	19.62	20.90
15	64QAM	1	37	19.78	19.84	19.63	20.90



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15	64QAM	1	74	19.72	19.84	19.54	20.90
15	64QAM	36	0	18.57	18.85	18.62	19.90
15	64QAM	36	20	18.58	18.79	18.59	19.90
15	64QAM	36	39	18.59	18.71	18.61	19.90
15	64QAM	75	0	18.79	18.85	18.67	19.90
15	256QAM	1	0	16.52	16.70	16.66	17.90
15	256QAM	1	37	16.65	16.74	16.68	17.90
15	256QAM	1	74	16.69	16.88	16.64	17.90
15	256QAM	36	0	16.51	16.75	16.62	17.90
15	256QAM	36	20	16.85	16.91	16.72	17.90
15	256QAM	36	39	16.69	16.73	16.73	17.90
15	256QAM	75	0	16.68	16.77	16.58	17.90
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.82	21.85	21.79	22.90
10	QPSK	1	25	21.62	21.62	21.50	22.90
10	QPSK	1	49	21.49	21.54	21.45	22.90
10	QPSK	25	0	20.90	20.86	20.91	21.90
10	QPSK	25	12	20.57	20.64	20.59	21.90
10	QPSK	25	25	20.64	20.73	20.62	21.90
10	QPSK	50	0	20.72	20.80	20.68	21.90
10	16QAM	1	0	20.58	20.71	20.55	21.90
10	16QAM	1	25	20.62	20.76	20.62	21.90
10	16QAM	1	49	20.62	20.69	20.57	21.90
10	16QAM	25	0	19.71	19.78	19.66	20.90
10	16QAM	25	12	19.82	19.88	19.72	20.90
10	16QAM	25	25	19.83	19.87	19.70	20.90
10	16QAM	50	0	19.76	19.84	19.60	20.90
10	64QAM	1	0	19.66	19.76	19.55	20.90
10	64QAM	1	25	19.70	19.93	19.67	20.90
10	64QAM	1	49	19.76	19.79	19.64	20.90
10	64QAM	25	0	18.58	18.77	18.64	19.90
10	64QAM	25	12	18.50	18.67	18.69	19.90
10	64QAM	25	25	18.60	18.82	18.58	19.90
10	64QAM	50	0	18.75	18.86	18.65	19.90
10	256QAM	1	0	16.55	16.73	16.63	17.90
10	256QAM	1	25	16.58	16.82	16.61	17.90
10	256QAM	1	49	16.78	16.80	16.66	17.90
10	256QAM	25	0	16.57	16.72	16.55	17.90
10	256QAM	25	12	16.79	16.85	16.81	17.90
10	256QAM	25	25	16.71	16.77	16.68	17.90
10	256QAM	50	0	16.69	16.74	16.48	17.90
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.82	21.92	21.86	22.90
5	QPSK	1	12	21.52	21.62	21.41	22.90
5	QPSK	1	24	21.51	21.61	21.44	22.90
5	QPSK	12	0	20.85	20.86	20.85	21.90
5	QPSK	12	7	20.50	20.61	20.60	21.90
5	QPSK	12	13	20.59	20.80	20.57	21.90
5	QPSK	25	0	20.73	20.80	20.56	21.90
5	16QAM	1	0	20.47	20.71	20.59	21.90
5	16QAM	1	12	20.67	20.73	20.50	21.90
5	16QAM	1	24	20.72	20.72	20.52	21.90
5	16QAM	12	0	19.75	19.79	19.62	20.90
5	16QAM	12	7	19.74	19.91	19.79	20.90
5	16QAM	12	13	19.75	19.88	19.67	20.90
5	16QAM	25	0	19.74	19.93	19.72	20.90
5	64QAM	1	0	19.65	19.82	19.49	20.90
5	64QAM	1	12	19.78	19.85	19.66	20.90
5	64QAM	1	24	19.66	19.74	19.60	20.90
5	64QAM	12	0	18.64	18.80	18.60	19.90
5	64QAM	12	7	18.59	18.65	18.60	19.90
5	64QAM	12	13	18.63	18.75	18.52	19.90
5	64QAM	25	0	18.68	18.87	18.66	19.90
5	256QAM	1	0	16.54	16.67	16.72	17.90
5	256QAM	1	12	16.63	16.75	16.59	17.90
5	256QAM	1	24	16.76	16.84	16.66	17.90
5	256QAM	12	0	16.48	16.72	16.57	17.90
5	256QAM	12	7	16.86	16.87	16.77	17.90
5	256QAM	12	13	16.69	16.76	16.71	17.90
5	256QAM	25	0	16.60	16.73	16.59	17.90



【LTE Band 38_Ant 4_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.92	21.96	21.87	23.00
20	QPSK	1	49	21.65	21.76	21.53	23.00
20	QPSK	1	99	21.55	21.65	21.54	23.00
20	QPSK	50	0	20.92	20.96	20.95	22.00
20	QPSK	50	24	20.64	20.75	20.64	22.00
20	QPSK	50	50	20.71	20.86	20.70	22.00
20	QPSK	100	0	20.86	20.92	20.70	22.00
20	16QAM	1	0	20.61	20.78	20.65	22.00
20	16QAM	1	49	20.74	20.83	20.64	22.00
20	16QAM	1	99	20.76	20.84	20.65	22.00
20	16QAM	50	0	19.83	19.88	19.74	21.00
20	16QAM	50	24	19.84	19.93	19.81	21.00
20	16QAM	50	50	19.86	19.92	19.73	21.00
20	16QAM	100	0	19.81	19.94	19.73	21.00
20	64QAM	1	0	19.74	19.84	19.63	21.00
20	64QAM	1	49	19.83	19.96	19.75	21.00
20	64QAM	1	99	19.78	19.88	19.67	21.00
20	64QAM	50	0	18.68	18.86	18.70	20.00
20	64QAM	50	24	18.62	18.80	18.71	20.00
20	64QAM	50	50	18.70	18.83	18.66	20.00
20	64QAM	100	0	18.81	18.97	18.78	20.00
20	256QAM	1	0	16.66	16.82	16.74	18.00
20	256QAM	1	49	16.70	16.86	16.70	18.00
20	256QAM	1	99	16.79	16.91	16.78	18.00
20	256QAM	50	0	16.63	16.79	16.64	18.00
20	256QAM	50	24	16.90	16.97	16.82	18.00
20	256QAM	50	50	16.80	16.85	16.75	18.00
20	256QAM	100	0	16.73	16.81	16.62	18.00
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.86	21.90	21.74	23.00
15	QPSK	1	37	21.58	21.73	21.39	23.00
15	QPSK	1	74	21.49	21.59	21.51	23.00
15	QPSK	36	0	20.83	20.83	20.90	22.00
15	QPSK	36	20	20.50	20.61	20.60	22.00
15	QPSK	36	39	20.62	20.82	20.57	22.00
15	QPSK	75	0	20.72	20.89	20.62	22.00
15	16QAM	1	0	20.60	20.67	20.51	22.00
15	16QAM	1	37	20.71	20.73	20.63	22.00
15	16QAM	1	74	20.68	20.80	20.59	22.00
15	16QAM	36	0	19.77	19.75	19.64	21.00
15	16QAM	36	20	19.82	19.83	19.71	21.00
15	16QAM	36	39	19.73	19.81	19.62	21.00
15	16QAM	75	0	19.76	19.86	19.64	21.00
15	64QAM	1	0	19.72	19.77	19.62	21.00
15	64QAM	1	37	19.78	19.84	19.63	21.00
15	64QAM	1	74	19.72	19.84	19.54	21.00
15	64QAM	36	0	18.57	18.85	18.62	20.00
15	64QAM	36	20	18.58	18.79	18.59	20.00
15	64QAM	36	39	18.59	18.71	18.61	20.00
15	64QAM	75	0	18.79	18.85	18.67	20.00
15	256QAM	1	0	16.52	16.70	16.66	18.00
15	256QAM	1	37	16.65	16.74	16.68	18.00
15	256QAM	1	74	16.69	16.88	16.64	18.00
15	256QAM	36	0	16.51	16.75	16.62	18.00
15	256QAM	36	20	16.85	16.91	16.72	18.00
15	256QAM	36	39	16.69	16.73	16.73	18.00
15	256QAM	75	0	16.68	16.77	16.58	18.00
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.82	21.85	21.79	23.00
10	QPSK	1	25	21.62	21.62	21.50	23.00
10	QPSK	1	49	21.49	21.54	21.45	23.00
10	QPSK	25	0	20.90	20.86	20.91	22.00
10	QPSK	25	12	20.57	20.64	20.59	22.00
10	QPSK	25	25	20.64	20.73	20.62	22.00
10	QPSK	50	0	20.72	20.80	20.68	22.00
10	16QAM	1	0	20.58	20.71	20.55	22.00
10	16QAM	1	25	20.62	20.76	20.62	22.00
10	16QAM	1	49	20.62	20.69	20.57	22.00
10	16QAM	25	0	19.71	19.78	19.66	21.00
10	16QAM	25	12	19.82	19.88	19.72	21.00



10	16QAM	25	25	19.83	19.87	19.70	21.00
10	16QAM	50	0	19.76	19.84	19.60	21.00
10	64QAM	1	0	19.66	19.76	19.55	21.00
10	64QAM	1	25	19.70	19.93	19.67	21.00
10	64QAM	1	49	19.76	19.79	19.64	21.00
10	64QAM	25	0	18.58	18.77	18.64	20.00
10	64QAM	25	12	18.50	18.67	18.69	20.00
10	64QAM	25	25	18.60	18.82	18.58	20.00
10	64QAM	50	0	18.75	18.86	18.65	20.00
10	256QAM	1	0	16.55	16.73	16.63	18.00
10	256QAM	1	25	16.58	16.82	16.61	18.00
10	256QAM	1	49	16.78	16.80	16.66	18.00
10	256QAM	25	0	16.57	16.72	16.55	18.00
10	256QAM	25	12	16.79	16.85	16.81	18.00
10	256QAM	25	25	16.71	16.77	16.68	18.00
10	256QAM	50	0	16.69	16.74	16.48	18.00
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.82	21.92	21.86	23.00
5	QPSK	1	12	21.52	21.62	21.41	23.00
5	QPSK	1	24	21.51	21.61	21.44	23.00
5	QPSK	12	0	20.85	20.86	20.85	22.00
5	QPSK	12	7	20.50	20.61	20.60	22.00
5	QPSK	12	13	20.59	20.80	20.57	22.00
5	QPSK	25	0	20.73	20.80	20.56	22.00
5	16QAM	1	0	20.47	20.71	20.59	22.00
5	16QAM	1	12	20.67	20.73	20.50	22.00
5	16QAM	1	24	20.72	20.72	20.52	22.00
5	16QAM	12	0	19.75	19.79	19.62	21.00
5	16QAM	12	7	19.74	19.91	19.79	21.00
5	16QAM	12	13	19.75	19.88	19.67	21.00
5	16QAM	25	0	19.74	19.93	19.72	21.00
5	64QAM	1	0	19.65	19.82	19.49	21.00
5	64QAM	1	12	19.78	19.85	19.66	21.00
5	64QAM	1	24	19.66	19.74	19.60	21.00
5	64QAM	12	0	18.64	18.80	18.60	20.00
5	64QAM	12	7	18.59	18.65	18.60	20.00
5	64QAM	12	13	18.63	18.75	18.52	20.00
5	64QAM	25	0	18.68	18.87	18.66	20.00
5	256QAM	1	0	16.54	16.67	16.72	18.00
5	256QAM	1	12	16.63	16.75	16.59	18.00
5	256QAM	1	24	16.76	16.84	16.66	18.00
5	256QAM	12	0	16.48	16.72	16.57	18.00
5	256QAM	12	7	16.86	16.87	16.77	18.00
5	256QAM	12	13	16.69	16.76	16.71	18.00
5	256QAM	25	0	16.60	16.73	16.59	18.00

【LTE Band 38_Ant 4_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.92	21.96	21.87	23.00
20	QPSK	1	49	21.65	21.76	21.53	23.00
20	QPSK	1	99	21.55	21.65	21.54	23.00
20	QPSK	50	0	20.92	20.96	20.95	22.00
20	QPSK	50	24	20.64	20.75	20.64	22.00
20	QPSK	50	50	20.71	20.86	20.70	22.00
20	QPSK	100	0	20.86	20.92	20.70	22.00
20	16QAM	1	0	20.61	20.78	20.65	22.00
20	16QAM	1	49	20.74	20.83	20.64	22.00
20	16QAM	1	99	20.76	20.84	20.65	22.00
20	16QAM	50	0	19.83	19.88	19.74	21.00
20	16QAM	50	24	19.84	19.93	19.81	21.00
20	16QAM	50	50	19.86	19.92	19.73	21.00
20	16QAM	100	0	19.81	19.94	19.73	21.00
20	64QAM	1	0	19.74	19.84	19.63	21.00
20	64QAM	1	49	19.83	19.96	19.75	21.00
20	64QAM	1	99	19.78	19.88	19.67	21.00
20	64QAM	50	0	18.68	18.86	18.70	20.00
20	64QAM	50	24	18.62	18.80	18.71	20.00
20	64QAM	50	50	18.70	18.83	18.66	20.00



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20	64QAM	100	0	18.81	18.97	18.78	20.00
20	256QAM	1	0	16.66	16.82	16.74	18.00
20	256QAM	1	49	16.70	16.86	16.70	18.00
20	256QAM	1	99	16.79	16.91	16.78	18.00
20	256QAM	50	0	16.63	16.79	16.64	18.00
20	256QAM	50	24	16.90	16.97	16.82	18.00
20	256QAM	50	50	16.80	16.85	16.75	18.00
20	256QAM	100	0	16.73	16.81	16.62	18.00
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	(dBm)
15	QPSK	1	0	21.86	21.90	21.74	23.00
15	QPSK	1	37	21.58	21.73	21.39	23.00
15	QPSK	1	74	21.49	21.59	21.51	23.00
15	QPSK	36	0	20.83	20.83	20.90	22.00
15	QPSK	36	20	20.50	20.61	20.60	22.00
15	QPSK	36	39	20.62	20.82	20.57	22.00
15	QPSK	75	0	20.72	20.89	20.62	22.00
15	16QAM	1	0	20.60	20.67	20.51	22.00
15	16QAM	1	37	20.71	20.73	20.63	22.00
15	16QAM	1	74	20.68	20.80	20.59	22.00
15	16QAM	36	0	19.77	19.75	19.64	21.00
15	16QAM	36	20	19.82	19.83	19.71	21.00
15	16QAM	36	39	19.73	19.81	19.62	21.00
15	16QAM	75	0	19.76	19.86	19.64	21.00
15	64QAM	1	0	19.72	19.77	19.62	21.00
15	64QAM	1	37	19.78	19.84	19.63	21.00
15	64QAM	1	74	19.72	19.84	19.54	21.00
15	64QAM	36	0	18.57	18.85	18.62	20.00
15	64QAM	36	20	18.58	18.79	18.59	20.00
15	64QAM	36	39	18.59	18.71	18.61	20.00
15	64QAM	75	0	18.79	18.85	18.67	20.00
15	256QAM	1	0	16.52	16.70	16.66	18.00
15	256QAM	1	37	16.65	16.74	16.68	18.00
15	256QAM	1	74	16.69	16.88	16.64	18.00
15	256QAM	36	0	16.51	16.75	16.62	18.00
15	256QAM	36	20	16.85	16.91	16.72	18.00
15	256QAM	36	39	16.69	16.73	16.73	18.00
15	256QAM	75	0	16.68	16.77	16.58	18.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	21.82	21.85	21.79	23.00
10	QPSK	1	25	21.62	21.62	21.50	23.00
10	QPSK	1	49	21.49	21.54	21.45	23.00
10	QPSK	25	0	20.90	20.86	20.91	22.00
10	QPSK	25	12	20.57	20.64	20.59	22.00
10	QPSK	25	25	20.64	20.73	20.62	22.00
10	QPSK	50	0	20.72	20.80	20.68	22.00
10	16QAM	1	0	20.58	20.71	20.55	22.00
10	16QAM	1	25	20.62	20.76	20.62	22.00
10	16QAM	1	49	20.62	20.69	20.57	22.00
10	16QAM	25	0	19.71	19.78	19.66	21.00
10	16QAM	25	12	19.82	19.88	19.72	21.00
10	16QAM	25	25	19.83	19.87	19.70	21.00
10	16QAM	50	0	19.76	19.84	19.60	21.00
10	64QAM	1	0	19.66	19.76	19.55	21.00
10	64QAM	1	25	19.70	19.93	19.67	21.00
10	64QAM	1	49	19.76	19.79	19.64	21.00
10	64QAM	25	0	18.58	18.77	18.64	20.00
10	64QAM	25	12	18.50	18.67	18.69	20.00
10	64QAM	25	25	18.60	18.82	18.58	20.00
10	64QAM	50	0	18.75	18.86	18.65	20.00
10	256QAM	1	0	16.55	16.73	16.63	18.00
10	256QAM	1	25	16.58	16.82	16.61	18.00
10	256QAM	1	49	16.78	16.80	16.66	18.00
10	256QAM	25	0	16.57	16.72	16.55	18.00
10	256QAM	25	12	16.79	16.85	16.81	18.00
10	256QAM	25	25	16.71	16.77	16.68	18.00
10	256QAM	50	0	16.69	16.74	16.48	18.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	21.82	21.92	21.86	23.00
5	QPSK	1	12	21.52	21.62	21.41	23.00
5	QPSK	1	24	21.51	21.61	21.44	23.00
5	QPSK	12	0	20.85	20.86	20.85	22.00
5	QPSK	12	7	20.50	20.61	20.60	22.00
5	QPSK	12	13	20.59	20.80	20.57	22.00
5	QPSK	25	0	20.73	20.80	20.56	22.00
5	16QAM	1	0	20.47	20.71	20.59	22.00



5	16QAM	1	12	20.67	20.73	20.50	22.00
5	16QAM	1	24	20.72	20.72	20.52	22.00
5	16QAM	12	0	19.75	19.79	19.62	21.00
5	16QAM	12	7	19.74	19.91	19.79	21.00
5	16QAM	12	13	19.75	19.88	19.67	21.00
5	16QAM	25	0	19.74	19.93	19.72	21.00
5	64QAM	1	0	19.65	19.82	19.49	21.00
5	64QAM	1	12	19.78	19.85	19.66	21.00
5	64QAM	1	24	19.66	19.74	19.60	21.00
5	64QAM	12	0	18.64	18.80	18.60	20.00
5	64QAM	12	7	18.59	18.65	18.60	20.00
5	64QAM	12	13	18.63	18.75	18.52	20.00
5	64QAM	25	0	18.68	18.87	18.66	20.00
5	256QAM	1	0	16.54	16.67	16.72	18.00
5	256QAM	1	12	16.63	16.75	16.59	18.00
5	256QAM	1	24	16.76	16.84	16.66	18.00
5	256QAM	12	0	16.48	16.72	16.57	18.00
5	256QAM	12	7	16.86	16.87	16.77	18.00
5	256QAM	12	13	16.69	16.76	16.71	18.00
5	256QAM	25	0	16.60	16.73	16.59	18.00

【LTE Band 38_Ant 4_DSI 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.92	21.96	21.87	22.70
20	QPSK	1	49	21.65	21.76	21.53	22.70
20	QPSK	1	99	21.55	21.65	21.54	22.70
20	QPSK	50	0	20.92	20.96	20.95	21.70
20	QPSK	50	24	20.64	20.75	20.64	21.70
20	QPSK	50	50	20.71	20.86	20.70	21.70
20	QPSK	100	0	20.86	20.92	20.70	21.70
20	16QAM	1	0	20.61	20.78	20.65	21.70
20	16QAM	1	49	20.74	20.83	20.64	21.70
20	16QAM	1	99	20.76	20.84	20.65	21.70
20	16QAM	50	0	19.83	19.88	19.74	20.70
20	16QAM	50	24	19.84	19.93	19.81	20.70
20	16QAM	50	50	19.86	19.92	19.73	20.70
20	16QAM	100	0	19.81	19.94	19.73	20.70
20	64QAM	1	0	19.74	19.84	19.63	20.70
20	64QAM	1	49	19.83	19.96	19.75	20.70
20	64QAM	1	99	19.78	19.88	19.67	20.70
20	64QAM	50	0	18.68	18.86	18.70	19.70
20	64QAM	50	24	18.62	18.80	18.71	19.70
20	64QAM	50	50	18.70	18.83	18.66	19.70
20	64QAM	100	0	18.81	18.97	18.78	19.70
20	256QAM	1	0	16.66	16.82	16.74	17.70
20	256QAM	1	49	16.70	16.86	16.70	17.70
20	256QAM	1	99	16.79	16.91	16.78	17.70
20	256QAM	50	0	16.63	16.79	16.64	17.70
20	256QAM	50	24	16.90	16.97	16.82	17.70
20	256QAM	50	50	16.80	16.85	16.75	17.70
20	256QAM	100	0	16.73	16.81	16.62	17.70
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.86	21.90	21.74	22.70
15	QPSK	1	37	21.58	21.73	21.39	22.70
15	QPSK	1	74	21.49	21.59	21.51	22.70
15	QPSK	36	0	20.83	20.83	20.90	21.70
15	QPSK	36	20	20.50	20.61	20.60	21.70
15	QPSK	36	39	20.62	20.82	20.57	21.70
15	QPSK	75	0	20.72	20.89	20.62	21.70
15	16QAM	1	0	20.60	20.67	20.51	21.70
15	16QAM	1	37	20.71	20.73	20.63	21.70
15	16QAM	1	74	20.68	20.80	20.59	21.70
15	16QAM	36	0	19.77	19.75	19.64	20.70
15	16QAM	36	20	19.82	19.83	19.71	20.70
15	16QAM	36	39	19.73	19.81	19.62	20.70
15	16QAM	75	0	19.76	19.86	19.64	20.70
15	64QAM	1	0	19.72	19.77	19.62	20.70
15	64QAM	1	37	19.78	19.84	19.63	20.70



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15	64QAM	1	74	19.72	19.84	19.54	20.70
15	64QAM	36	0	18.57	18.85	18.62	19.70
15	64QAM	36	20	18.58	18.79	18.59	19.70
15	64QAM	36	39	18.59	18.71	18.61	19.70
15	64QAM	75	0	18.79	18.85	18.67	19.70
15	256QAM	1	0	16.52	16.70	16.66	17.70
15	256QAM	1	37	16.65	16.74	16.68	17.70
15	256QAM	1	74	16.69	16.88	16.64	17.70
15	256QAM	36	0	16.51	16.75	16.62	17.70
15	256QAM	36	20	16.85	16.91	16.72	17.70
15	256QAM	36	39	16.69	16.73	16.73	17.70
15	256QAM	75	0	16.68	16.77	16.58	17.70
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.82	21.85	21.79	22.70
10	QPSK	1	25	21.62	21.62	21.50	22.70
10	QPSK	1	49	21.49	21.54	21.45	22.70
10	QPSK	25	0	20.90	20.86	20.91	21.70
10	QPSK	25	12	20.57	20.64	20.59	21.70
10	QPSK	25	25	20.64	20.73	20.62	21.70
10	QPSK	50	0	20.72	20.80	20.68	21.70
10	16QAM	1	0	20.58	20.71	20.55	21.70
10	16QAM	1	25	20.62	20.76	20.62	21.70
10	16QAM	1	49	20.62	20.69	20.57	21.70
10	16QAM	25	0	19.71	19.78	19.66	20.70
10	16QAM	25	12	19.82	19.88	19.72	20.70
10	16QAM	25	25	19.83	19.87	19.70	20.70
10	16QAM	50	0	19.76	19.84	19.60	20.70
10	64QAM	1	0	19.66	19.76	19.55	20.70
10	64QAM	1	25	19.70	19.93	19.67	20.70
10	64QAM	1	49	19.76	19.79	19.64	20.70
10	64QAM	25	0	18.58	18.77	18.64	19.70
10	64QAM	25	12	18.50	18.67	18.69	19.70
10	64QAM	25	25	18.60	18.82	18.58	19.70
10	64QAM	50	0	18.75	18.86	18.65	19.70
10	256QAM	1	0	16.55	16.73	16.63	17.70
10	256QAM	1	25	16.58	16.82	16.61	17.70
10	256QAM	1	49	16.78	16.80	16.66	17.70
10	256QAM	25	0	16.57	16.72	16.55	17.70
10	256QAM	25	12	16.79	16.85	16.81	17.70
10	256QAM	25	25	16.71	16.77	16.68	17.70
10	256QAM	50	0	16.69	16.74	16.48	17.70
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.82	21.92	21.86	22.70
5	QPSK	1	12	21.52	21.62	21.41	22.70
5	QPSK	1	24	21.51	21.61	21.44	22.70
5	QPSK	12	0	20.85	20.86	20.85	21.70
5	QPSK	12	7	20.50	20.61	20.60	21.70
5	QPSK	12	13	20.59	20.80	20.57	21.70
5	QPSK	25	0	20.73	20.80	20.56	21.70
5	16QAM	1	0	20.47	20.71	20.59	21.70
5	16QAM	1	12	20.67	20.73	20.50	21.70
5	16QAM	1	24	20.72	20.72	20.52	21.70
5	16QAM	12	0	19.75	19.79	19.62	20.70
5	16QAM	12	7	19.74	19.91	19.79	20.70
5	16QAM	12	13	19.75	19.88	19.67	20.70
5	16QAM	25	0	19.74	19.93	19.72	20.70
5	64QAM	1	0	19.65	19.82	19.49	20.70
5	64QAM	1	12	19.78	19.85	19.66	20.70
5	64QAM	1	24	19.66	19.74	19.60	20.70
5	64QAM	12	0	18.64	18.80	18.60	19.70
5	64QAM	12	7	18.59	18.65	18.60	19.70
5	64QAM	12	13	18.63	18.75	18.52	19.70
5	64QAM	25	0	18.68	18.87	18.66	19.70
5	256QAM	1	0	16.54	16.67	16.72	17.70
5	256QAM	1	12	16.63	16.75	16.59	17.70
5	256QAM	1	24	16.76	16.84	16.66	17.70
5	256QAM	12	0	16.48	16.72	16.57	17.70
5	256QAM	12	7	16.86	16.87	16.77	17.70
5	256QAM	12	13	16.69	16.76	16.71	17.70
5	256QAM	25	0	16.60	16.73	16.59	17.70



【LTE Band 38_Ant 4_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	14.56	14.58	14.52	16.30
20	QPSK	1	49	14.54	14.57	14.57	16.30
20	QPSK	1	99	14.53	14.58	14.56	16.30
20	QPSK	50	0	14.50	14.57	14.53	16.30
20	QPSK	50	24	14.52	14.52	14.48	16.30
20	QPSK	50	50	14.52	14.53	14.55	16.30
20	QPSK	100	0	14.61	14.57	14.55	16.30
20	16QAM	1	0	14.61	14.53	14.56	16.30
20	16QAM	1	49	14.58	14.53	14.47	16.30
20	16QAM	1	99	14.62	14.55	14.48	16.30
20	16QAM	50	0	14.53	14.52	14.50	16.30
20	16QAM	50	24	14.51	14.52	14.55	16.30
20	16QAM	50	50	14.61	14.56	14.55	16.30
20	16QAM	100	0	14.55	14.59	14.52	16.30
20	64QAM	1	0	14.51	14.55	14.53	16.30
20	64QAM	1	49	14.52	14.50	14.48	16.30
20	64QAM	1	99	14.51	14.49	14.56	16.30
20	64QAM	50	0	14.62	14.52	14.56	16.30
20	64QAM	50	24	14.54	14.53	14.56	16.30
20	64QAM	50	50	14.50	14.53	14.55	16.30
20	64QAM	100	0	14.51	14.55	14.56	16.30
20	256QAM	1	0	14.56	14.56	14.48	16.30
20	256QAM	1	49	14.61	14.53	14.52	16.30
20	256QAM	1	99	14.51	14.53	14.56	16.30
20	256QAM	50	0	14.54	14.51	14.57	16.30
20	256QAM	50	24	14.55	14.55	14.52	16.30
20	256QAM	50	50	14.61	14.53	14.50	16.30
20	256QAM	100	0	14.52	14.57	14.53	16.30
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	14.43	14.47	14.45	16.30
15	QPSK	1	37	14.52	14.54	14.43	16.30
15	QPSK	1	74	14.51	14.45	14.42	16.30
15	QPSK	36	0	14.44	14.44	14.39	16.30
15	QPSK	36	20	14.44	14.46	14.33	16.30
15	QPSK	36	39	14.48	14.47	14.43	16.30
15	QPSK	75	0	14.49	14.46	14.53	16.30
15	16QAM	1	0	14.52	14.52	14.52	16.30
15	16QAM	1	37	14.51	14.39	14.33	16.30
15	16QAM	1	74	14.49	14.46	14.43	16.30
15	16QAM	36	0	14.47	14.46	14.40	16.30
15	16QAM	36	20	14.50	14.50	14.40	16.30
15	16QAM	36	39	14.53	14.47	14.53	16.30
15	16QAM	75	0	14.47	14.57	14.45	16.30
15	64QAM	1	0	14.40	14.46	14.52	16.30
15	64QAM	1	37	14.43	14.46	14.39	16.30
15	64QAM	1	74	14.46	14.46	14.49	16.30
15	64QAM	36	0	14.52	14.48	14.43	16.30
15	64QAM	36	20	14.45	14.41	14.54	16.30
15	64QAM	36	39	14.41	14.48	14.46	16.30
15	64QAM	75	0	14.44	14.42	14.53	16.30
15	256QAM	1	0	14.49	14.45	14.39	16.30
15	256QAM	1	37	14.58	14.42	14.47	16.30
15	256QAM	1	74	14.37	14.39	14.42	16.30
15	256QAM	36	0	14.42	14.45	14.56	16.30
15	256QAM	36	20	14.51	14.47	14.43	16.30
15	256QAM	36	39	14.56	14.50	14.37	16.30
15	256QAM	75	0	14.48	14.45	14.44	16.30
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	14.48	14.56	14.41	16.30
10	QPSK	1	25	14.43	14.54	14.43	16.30
10	QPSK	1	49	14.39	14.52	14.49	16.30
10	QPSK	25	0	14.46	14.46	14.48	16.30
10	QPSK	25	12	14.49	14.49	14.45	16.30
10	QPSK	25	25	14.44	14.51	14.50	16.30
10	QPSK	50	0	14.56	14.55	14.53	16.30
10	16QAM	1	0	14.54	14.46	14.54	16.30
10	16QAM	1	25	14.51	14.49	14.34	16.30
10	16QAM	1	49	14.59	14.42	14.41	16.30
10	16QAM	25	0	14.42	14.46	14.43	16.30
10	16QAM	25	12	14.42	14.50	14.45	16.30



10	16QAM	25	25	14.57	14.43	14.53	16.30
10	16QAM	50	0	14.51	14.52	14.46	16.30
10	64QAM	1	0	14.38	14.41	14.48	16.30
10	64QAM	1	25	14.42	14.46	14.46	16.30
10	64QAM	1	49	14.43	14.38	14.54	16.30
10	64QAM	25	0	14.49	14.39	14.52	16.30
10	64QAM	25	12	14.40	14.41	14.44	16.30
10	64QAM	25	25	14.35	14.48	14.52	16.30
10	64QAM	50	0	14.38	14.47	14.45	16.30
10	256QAM	1	0	14.42	14.42	14.35	16.30
10	256QAM	1	25	14.50	14.45	14.43	16.30
10	256QAM	1	49	14.50	14.45	14.53	16.30
10	256QAM	25	0	14.50	14.42	14.51	16.30
10	256QAM	25	12	14.49	14.48	14.51	16.30
10	256QAM	25	25	14.49	14.51	14.36	16.30
10	256QAM	50	0	14.50	14.44	14.48	16.30
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	14.41	14.54	14.41	16.30
5	QPSK	1	12	14.51	14.47	14.45	16.30
5	QPSK	1	24	14.38	14.52	14.47	16.30
5	QPSK	12	0	14.43	14.46	14.39	16.30
5	QPSK	12	7	14.43	14.45	14.43	16.30
5	QPSK	12	13	14.42	14.51	14.47	16.30
5	QPSK	25	0	14.51	14.46	14.44	16.30
5	16QAM	1	0	14.51	14.51	14.50	16.30
5	16QAM	1	12	14.48	14.38	14.44	16.30
5	16QAM	1	24	14.52	14.41	14.41	16.30
5	16QAM	12	0	14.45	14.44	14.44	16.30
5	16QAM	12	7	14.47	14.45	14.52	16.30
5	16QAM	12	13	14.48	14.47	14.43	16.30
5	16QAM	25	0	14.52	14.51	14.49	16.30
5	64QAM	1	0	14.44	14.41	14.43	16.30
5	64QAM	1	12	14.39	14.49	14.46	16.30
5	64QAM	1	24	14.47	14.42	14.42	16.30
5	64QAM	12	0	14.52	14.47	14.49	16.30
5	64QAM	12	7	14.40	14.51	14.47	16.30
5	64QAM	12	13	14.38	14.50	14.52	16.30
5	64QAM	25	0	14.40	14.49	14.43	16.30
5	256QAM	1	0	14.55	14.46	14.37	16.30
5	256QAM	1	12	14.46	14.46	14.45	16.30
5	256QAM	1	24	14.44	14.52	14.51	16.30
5	256QAM	12	0	14.41	14.39	14.48	16.30
5	256QAM	12	7	14.48	14.47	14.49	16.30
5	256QAM	12	13	14.59	14.52	14.42	16.30
5	256QAM	25	0	14.48	14.43	14.44	16.30

【LTE Band 41_FCC (2496~2690MHz)_Ant 0_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.73	22.84	22.90	22.88	22.87	24.00
20	QPSK	1	49	22.47	22.64	22.76	22.71	22.62	24.00
20	QPSK	1	99	22.51	22.62	22.78	22.75	22.74	24.00
20	QPSK	50	0	21.86	21.92	21.97	21.85	21.93	23.00
20	QPSK	50	24	21.61	21.70	21.88	21.80	21.82	23.00
20	QPSK	50	50	21.49	21.59	21.76	21.60	21.64	23.00
20	QPSK	100	0	21.60	21.75	21.89	21.73	21.79	23.00
20	16QAM	1	0	21.52	21.63	21.72	21.66	21.67	23.00
20	16QAM	1	49	21.59	21.74	21.86	21.71	21.79	23.00
20	16QAM	1	99	21.47	21.61	21.77	21.68	21.70	23.00
20	16QAM	50	0	20.46	20.61	20.75	20.70	20.69	22.00
20	16QAM	50	24	20.47	20.57	20.68	20.62	20.62	22.00
20	16QAM	50	50	20.72	20.70	20.90	20.74	20.73	22.00
20	16QAM	100	0	20.51	20.61	20.78	20.68	20.64	22.00
20	64QAM	1	0	20.58	20.75	20.85	20.79	20.81	22.00
20	64QAM	1	49	20.63	20.73	20.86	20.83	20.75	22.00
20	64QAM	1	99	20.47	20.59	20.71	20.67	20.60	22.00
20	64QAM	50	0	19.46	19.62	19.69	19.63	19.62	21.00
20	64QAM	50	24	19.69	19.68	19.86	19.75	19.80	21.00
20	64QAM	50	50	19.57	19.66	19.82	19.78	19.65	21.00



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20	64QAM	100	0	19.58	19.67	19.83	19.74	19.76	21.00
20	256QAM	1	0	17.49	17.58	17.77	17.67	17.74	19.00
20	256QAM	1	49	17.49	17.63	17.69	17.65	17.65	19.00
20	256QAM	1	99	17.46	17.63	17.72	17.60	17.55	19.00
20	256QAM	50	0	17.69	17.70	17.88	17.84	17.79	19.00
20	256QAM	50	24	17.70	17.68	17.87	17.81	17.78	19.00
20	256QAM	50	50	17.60	17.59	17.79	17.72	17.65	19.00
20	256QAM	100	0	17.59	17.56	17.75	17.68	17.71	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.64	22.71	22.87	22.84	22.83	24.00
15	QPSK	1	37	22.34	22.55	22.69	22.62	22.55	24.00
15	QPSK	1	74	22.49	22.51	22.65	22.74	22.64	24.00
15	QPSK	36	0	21.79	21.86	21.88	21.78	21.83	23.00
15	QPSK	36	20	21.59	21.55	21.79	21.71	21.69	23.00
15	QPSK	36	39	21.41	21.53	21.68	21.46	21.49	23.00
15	QPSK	75	0	21.54	21.68	21.80	21.63	21.67	23.00
15	16QAM	1	0	21.42	21.58	21.71	21.62	21.56	23.00
15	16QAM	1	37	21.46	21.62	21.85	21.62	21.74	23.00
15	16QAM	1	74	21.38	21.57	21.65	21.54	21.67	23.00
15	16QAM	36	0	20.31	20.48	20.69	20.65	20.57	22.00
15	16QAM	36	20	20.45	20.50	20.54	20.57	20.57	22.00
15	16QAM	36	39	20.68	20.58	20.80	20.67	20.69	22.00
15	16QAM	75	0	20.48	20.59	20.68	20.61	20.62	22.00
15	64QAM	1	0	20.51	20.64	20.77	20.77	20.79	22.00
15	64QAM	1	37	20.49	20.62	20.72	20.81	20.62	22.00
15	64QAM	1	74	20.36	20.45	20.69	20.66	20.57	22.00
15	64QAM	36	0	19.31	19.53	19.63	19.52	19.52	21.00
15	64QAM	36	20	19.58	19.54	19.76	19.68	19.71	21.00
15	64QAM	36	39	19.50	19.63	19.73	19.69	19.55	21.00
15	64QAM	75	0	19.50	19.64	19.78	19.63	19.68	21.00
15	256QAM	1	0	17.43	17.53	17.76	17.56	17.64	19.00
15	256QAM	1	37	17.37	17.49	17.61	17.51	17.57	19.00
15	256QAM	1	74	17.42	17.52	17.65	17.54	17.44	19.00
15	256QAM	36	0	17.54	17.62	17.81	17.76	17.76	19.00
15	256QAM	36	20	17.58	17.53	17.76	17.77	17.71	19.00
15	256QAM	36	39	17.47	17.44	17.64	17.67	17.52	19.00
15	256QAM	75	0	17.48	17.54	17.73	17.63	17.65	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.68	22.70	22.79	22.77	22.78	24.00
10	QPSK	1	25	22.43	22.53	22.73	22.64	22.48	24.00
10	QPSK	1	49	22.43	22.59	22.71	22.67	22.65	24.00
10	QPSK	25	0	21.75	21.90	21.95	21.78	21.82	23.00
10	QPSK	25	12	21.51	21.59	21.82	21.72	21.70	23.00
10	QPSK	25	25	21.47	21.44	21.69	21.51	21.56	23.00
10	QPSK	50	0	21.46	21.64	21.88	21.66	21.64	23.00
10	16QAM	1	0	21.40	21.50	21.62	21.60	21.53	23.00
10	16QAM	1	25	21.51	21.65	21.75	21.57	21.67	23.00
10	16QAM	1	49	21.35	21.57	21.66	21.60	21.66	23.00
10	16QAM	25	0	20.40	20.52	20.71	20.58	20.56	22.00
10	16QAM	25	12	20.40	20.47	20.65	20.49	20.49	22.00
10	16QAM	25	25	20.63	20.68	20.83	20.63	20.70	22.00
10	16QAM	50	0	20.42	20.51	20.76	20.60	20.57	22.00
10	64QAM	1	0	20.45	20.64	20.71	20.69	20.69	22.00
10	64QAM	1	25	20.55	20.65	20.81	20.79	20.67	22.00
10	64QAM	1	49	20.33	20.48	20.62	20.59	20.59	22.00
10	64QAM	25	0	19.39	19.59	19.62	19.52	19.52	21.00
10	64QAM	25	12	19.55	19.54	19.76	19.64	19.72	21.00
10	64QAM	25	25	19.52	19.59	19.69	19.71	19.63	21.00
10	64QAM	50	0	19.49	19.57	19.69	19.69	19.67	21.00
10	256QAM	1	0	17.46	17.44	17.76	17.57	17.64	19.00
10	256QAM	1	25	17.37	17.50	17.63	17.62	17.59	19.00
10	256QAM	1	49	17.37	17.55	17.61	17.56	17.49	19.00
10	256QAM	25	0	17.60	17.64	17.80	17.75	17.76	19.00
10	256QAM	25	12	17.57	17.61	17.80	17.67	17.75	19.00
10	256QAM	25	25	17.59	17.50	17.67	17.60	17.63	19.00
10	256QAM	50	0	17.44	17.42	17.72	17.60	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.63	22.71	22.78	22.76	22.73	24.00
5	QPSK	1	12	22.33	22.53	22.62	22.64	22.59	24.00
5	QPSK	1	24	22.37	22.56	22.75	22.62	22.72	24.00
5	QPSK	12	0	21.79	21.88	21.91	21.84	21.85	23.00
5	QPSK	12	7	21.49	21.67	21.82	21.77	21.80	23.00



5	QPSK	12	13	21.41	21.57	21.74	21.54	21.62	23.00
5	QPSK	25	0	21.50	21.74	21.88	21.59	21.75	23.00
5	16QAM	1	0	21.42	21.49	21.57	21.58	21.60	23.00
5	16QAM	1	12	21.57	21.70	21.81	21.68	21.74	23.00
5	16QAM	1	24	21.44	21.54	21.70	21.66	21.65	23.00
5	16QAM	12	0	20.38	20.50	20.66	20.65	20.57	22.00
5	16QAM	12	7	20.35	20.45	20.56	20.54	20.58	22.00
5	16QAM	12	13	20.61	20.62	20.76	20.68	20.69	22.00
5	16QAM	25	0	20.43	20.58	20.69	20.60	20.59	22.00
5	64QAM	1	0	20.45	20.70	20.80	20.68	20.67	22.00
5	64QAM	1	12	20.59	20.64	20.74	20.80	20.67	22.00
5	64QAM	1	24	20.37	20.45	20.67	20.58	20.55	22.00
5	64QAM	12	0	19.42	19.58	19.66	19.58	19.53	21.00
5	64QAM	12	7	19.68	19.60	19.81	19.61	19.75	21.00
5	64QAM	12	13	19.47	19.55	19.80	19.63	19.51	21.00
5	64QAM	25	0	19.54	19.53	19.80	19.60	19.75	21.00
5	256QAM	1	0	17.36	17.50	17.75	17.62	17.68	19.00
5	256QAM	1	12	17.43	17.59	17.63	17.50	17.52	19.00
5	256QAM	1	24	17.36	17.58	17.68	17.52	17.51	19.00
5	256QAM	12	0	17.62	17.60	17.77	17.81	17.71	19.00
5	256QAM	12	7	17.64	17.61	17.80	17.75	17.70	19.00
5	256QAM	12	13	17.47	17.52	17.74	17.67	17.55	19.00
5	256QAM	25	0	17.51	17.55	17.70	17.56	17.68	19.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 0_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.71	25.75	25.85	25.79	25.81	27.00
20	QPSK	1	49	25.31	25.34	25.56	25.38	25.47	27.00
20	QPSK	1	99	25.36	25.31	25.54	25.46	25.41	27.00
20	QPSK	50	0	24.91	24.88	24.94	24.82	24.83	26.00
20	QPSK	50	24	24.68	24.66	24.85	24.69	24.69	26.00
20	QPSK	50	50	24.55	24.52	24.72	24.58	24.55	26.00
20	QPSK	100	0	24.69	24.76	24.90	24.77	24.85	26.00
20	16QAM	1	0	24.50	24.54	24.72	24.65	24.63	26.00
20	16QAM	1	49	24.39	24.42	24.63	24.49	24.45	26.00
20	16QAM	1	99	24.42	24.51	24.65	24.53	24.50	26.00
20	16QAM	50	0	23.40	23.43	23.63	23.46	23.57	25.00
20	16QAM	50	24	23.62	23.61	23.79	23.60	23.70	25.00
20	16QAM	50	50	23.55	23.64	23.81	23.65	23.67	25.00
20	16QAM	100	0	23.67	23.65	23.86	23.74	23.80	25.00
20	64QAM	1	0	23.64	23.64	23.82	23.68	23.77	25.00
20	64QAM	1	49	23.50	23.57	23.69	23.53	23.57	25.00
20	64QAM	1	99	23.67	23.69	23.81	23.73	23.70	25.00
20	64QAM	50	0	22.60	22.67	22.83	22.67	22.73	24.00
20	64QAM	50	24	22.70	22.63	22.84	22.66	22.71	24.00
20	64QAM	50	50	22.50	22.61	22.71	22.58	22.56	24.00
20	64QAM	100	0	22.48	22.51	22.73	22.63	22.64	24.00
20	256QAM	1	0	20.58	20.60	20.82	20.76	20.74	22.00
20	256QAM	1	49	20.67	20.71	20.87	20.72	20.83	22.00
20	256QAM	1	99	20.57	20.49	20.70	20.55	20.56	22.00
20	256QAM	50	0	20.65	20.64	20.82	20.64	20.75	22.00
20	256QAM	50	24	20.60	20.71	20.86	20.66	20.73	22.00
20	256QAM	50	50	20.45	20.54	20.65	20.57	20.51	22.00
20	256QAM	100	0	20.52	20.61	20.74	20.57	20.58	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.59	25.63	25.70	25.67	25.76	27.00
15	QPSK	1	37	25.18	25.20	25.55	25.36	25.34	27.00
15	QPSK	1	74	25.28	25.21	25.41	25.31	25.30	27.00
15	QPSK	36	0	24.89	24.84	24.79	24.80	24.72	26.00
15	QPSK	36	20	24.57	24.55	24.83	24.57	24.56	26.00
15	QPSK	36	39	24.49	24.49	24.69	24.56	24.45	26.00
15	QPSK	75	0	24.63	24.66	24.78	24.64	24.76	26.00
15	16QAM	1	0	24.39	24.43	24.63	24.62	24.58	26.00
15	16QAM	1	37	24.25	24.40	24.58	24.35	24.35	26.00
15	16QAM	1	74	24.40	24.42	24.61	24.48	24.35	26.00
15	16QAM	36	0	23.35	23.39	23.58	23.43	23.49	25.00
15	16QAM	36	20	23.50	23.56	23.72	23.53	23.65	25.00



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15	16QAM	36	39	23.54	23.51	23.79	23.54	23.65	25.00
15	16QAM	75	0	23.57	23.55	23.73	23.71	23.68	25.00
15	64QAM	1	0	23.57	23.62	23.71	23.54	23.72	25.00
15	64QAM	1	37	23.36	23.54	23.58	23.45	23.45	25.00
15	64QAM	1	74	23.65	23.61	23.70	23.59	23.58	25.00
15	64QAM	36	0	22.55	22.53	22.80	22.53	22.60	24.00
15	64QAM	36	20	22.64	22.58	22.76	22.56	22.59	24.00
15	64QAM	36	39	22.36	22.57	22.63	22.43	22.42	24.00
15	64QAM	75	0	22.39	22.45	22.65	22.49	22.51	24.00
15	256QAM	1	0	20.47	20.51	20.79	20.63	20.61	22.00
15	256QAM	1	37	20.66	20.63	20.82	20.59	20.71	22.00
15	256QAM	1	74	20.51	20.34	20.56	20.52	20.49	22.00
15	256QAM	36	0	20.62	20.60	20.71	20.60	20.73	22.00
15	256QAM	36	20	20.56	20.69	20.76	20.61	20.69	22.00
15	256QAM	36	39	20.38	20.39	20.55	20.48	20.44	22.00
15	256QAM	75	0	20.39	20.57	20.68	20.53	20.51	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.69	25.65	25.76	25.72	25.68	27.00
10	QPSK	1	25	25.16	25.26	25.52	25.32	25.39	27.00
10	QPSK	1	49	25.27	25.28	25.44	25.32	25.39	27.00
10	QPSK	25	0	24.79	24.80	24.85	24.67	24.70	26.00
10	QPSK	25	12	24.55	24.58	24.79	24.61	24.55	26.00
10	QPSK	25	25	24.47	24.42	24.67	24.54	24.52	26.00
10	QPSK	50	0	24.56	24.74	24.79	24.69	24.71	26.00
10	16QAM	1	0	24.36	24.39	24.61	24.50	24.48	26.00
10	16QAM	1	25	24.24	24.33	24.58	24.40	24.40	26.00
10	16QAM	1	49	24.41	24.46	24.62	24.48	24.48	26.00
10	16QAM	25	0	23.29	23.41	23.52	23.34	23.56	25.00
10	16QAM	25	12	23.57	23.56	23.73	23.58	23.57	25.00
10	16QAM	25	25	23.49	23.57	23.79	23.63	23.58	25.00
10	16QAM	50	0	23.55	23.51	23.84	23.70	23.74	25.00
10	64QAM	1	0	23.59	23.51	23.70	23.63	23.71	25.00
10	64QAM	1	25	23.42	23.48	23.64	23.39	23.47	25.00
10	64QAM	1	49	23.62	23.59	23.76	23.70	23.68	25.00
10	64QAM	25	0	22.50	22.62	22.71	22.56	22.71	24.00
10	64QAM	25	12	22.65	22.55	22.82	22.53	22.70	24.00
10	64QAM	25	25	22.46	22.55	22.65	22.54	22.51	24.00
10	64QAM	50	0	22.37	22.44	22.58	22.54	22.49	24.00
10	256QAM	1	0	20.49	20.56	20.75	20.70	20.68	22.00
10	256QAM	1	25	20.58	20.56	20.80	20.60	20.79	22.00
10	256QAM	1	49	20.42	20.44	20.62	20.49	20.41	22.00
10	256QAM	25	0	20.52	20.51	20.68	20.50	20.73	22.00
10	256QAM	25	12	20.48	20.59	20.84	20.58	20.71	22.00
10	256QAM	25	25	20.32	20.41	20.60	20.48	20.37	22.00
10	256QAM	50	0	20.41	20.49	20.71	20.43	20.50	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	25.68	25.62	25.78	25.76	25.69	27.00
5	QPSK	1	12	25.18	25.25	25.54	25.33	25.39	27.00
5	QPSK	1	24	25.30	25.25	25.50	25.39	25.29	27.00
5	QPSK	12	0	24.83	24.76	24.89	24.69	24.79	26.00
5	QPSK	12	7	24.56	24.64	24.83	24.55	24.54	26.00
5	QPSK	12	13	24.50	24.46	24.62	24.44	24.54	26.00
5	QPSK	25	0	24.55	24.70	24.82	24.72	24.82	26.00
5	16QAM	1	0	24.40	24.50	24.70	24.60	24.52	26.00
5	16QAM	1	12	24.36	24.37	24.55	24.41	24.43	26.00
5	16QAM	1	24	24.28	24.37	24.58	24.47	24.48	26.00
5	16QAM	12	0	23.32	23.42	23.62	23.36	23.49	25.00
5	16QAM	12	7	23.54	23.51	23.65	23.53	23.63	25.00
5	16QAM	12	13	23.48	23.56	23.80	23.64	23.58	25.00
5	16QAM	25	0	23.61	23.53	23.74	23.70	23.70	25.00
5	64QAM	1	0	23.53	23.54	23.78	23.55	23.66	25.00
5	64QAM	1	12	23.46	23.47	23.61	23.47	23.46	25.00
5	64QAM	1	24	23.55	23.61	23.78	23.71	23.65	25.00
5	64QAM	12	0	22.57	22.61	22.76	22.63	22.68	24.00
5	64QAM	12	7	22.63	22.54	22.76	22.65	22.66	24.00
5	64QAM	12	13	22.41	22.51	22.69	22.46	22.49	24.00
5	64QAM	25	0	22.47	22.40	22.71	22.53	22.50	24.00
5	256QAM	1	0	20.49	20.57	20.77	20.63	20.71	22.00
5	256QAM	1	12	20.55	20.67	20.76	20.65	20.81	22.00
5	256QAM	1	24	20.47	20.39	20.58	20.45	20.45	22.00
5	256QAM	12	0	20.56	20.60	20.79	20.62	20.61	22.00
5	256QAM	12	7	20.48	20.65	20.76	20.53	20.70	22.00
5	256QAM	12	13	20.37	20.47	20.52	20.43	20.48	22.00
5	256QAM	25	0	20.46	20.59	20.70	20.55	20.46	22.00

【LTE Band 41__FCC (2496~2690MHz)_Ant 0_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24.00
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.73	22.84	22.90	22.88	22.87	24.00
20	QPSK	1	49	22.47	22.64	22.76	22.71	22.62	24.00
20	QPSK	1	99	22.51	22.62	22.78	22.75	22.74	24.00
20	QPSK	50	0	21.86	21.92	21.97	21.85	21.93	23.00
20	QPSK	50	24	21.61	21.70	21.88	21.80	21.82	23.00
20	QPSK	50	50	21.49	21.59	21.76	21.60	21.64	23.00
20	QPSK	100	0	21.60	21.75	21.89	21.73	21.79	23.00
20	16QAM	1	0	21.52	21.63	21.72	21.66	21.67	23.00
20	16QAM	1	49	21.59	21.74	21.86	21.71	21.79	23.00
20	16QAM	1	99	21.47	21.61	21.77	21.68	21.70	23.00
20	16QAM	50	0	20.46	20.61	20.75	20.70	20.69	22.00
20	16QAM	50	24	20.47	20.57	20.68	20.62	20.62	22.00
20	16QAM	50	50	20.72	20.70	20.90	20.74	20.73	22.00
20	16QAM	100	0	20.51	20.61	20.78	20.68	20.64	22.00
20	64QAM	1	0	20.58	20.75	20.85	20.79	20.81	22.00
20	64QAM	1	49	20.63	20.73	20.86	20.83	20.75	22.00
20	64QAM	1	99	20.47	20.59	20.71	20.67	20.60	22.00
20	64QAM	50	0	19.46	19.62	19.69	19.63	19.62	21.00
20	64QAM	50	24	19.69	19.68	19.86	19.75	19.80	21.00
20	64QAM	50	50	19.57	19.66	19.82	19.78	19.65	21.00
20	64QAM	100	0	19.58	19.67	19.83	19.74	19.76	21.00
20	256QAM	1	0	17.49	17.58	17.77	17.67	17.74	19.00
20	256QAM	1	49	17.49	17.63	17.69	17.65	17.65	19.00
20	256QAM	1	99	17.46	17.63	17.72	17.60	17.55	19.00
20	256QAM	50	0	17.69	17.70	17.88	17.84	17.79	19.00
20	256QAM	50	24	17.70	17.68	17.87	17.81	17.78	19.00
20	256QAM	50	50	17.60	17.59	17.79	17.72	17.65	19.00
20	256QAM	100	0	17.59	17.56	17.75	17.68	17.71	19.00
Channel				39725	40173	40620	41068	41515	24.00
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.64	22.71	22.87	22.84	22.83	24.00
15	QPSK	1	37	22.34	22.55	22.69	22.62	22.55	24.00
15	QPSK	1	74	22.49	22.51	22.65	22.74	22.64	24.00
15	QPSK	36	0	21.79	21.86	21.88	21.78	21.83	23.00
15	QPSK	36	20	21.59	21.55	21.79	21.71	21.69	23.00
15	QPSK	36	39	21.41	21.53	21.68	21.46	21.49	23.00
15	QPSK	75	0	21.54	21.68	21.80	21.63	21.67	23.00
15	16QAM	1	0	21.42	21.58	21.71	21.62	21.56	23.00
15	16QAM	1	37	21.46	21.62	21.85	21.62	21.74	23.00
15	16QAM	1	74	21.38	21.57	21.65	21.54	21.67	23.00
15	16QAM	36	0	20.31	20.48	20.69	20.65	20.57	22.00
15	16QAM	36	20	20.45	20.50	20.54	20.57	20.57	22.00
15	16QAM	36	39	20.68	20.58	20.80	20.67	20.69	22.00
15	16QAM	75	0	20.48	20.59	20.68	20.61	20.62	22.00
15	64QAM	1	0	20.51	20.64	20.77	20.77	20.79	22.00
15	64QAM	1	37	20.49	20.62	20.72	20.81	20.62	22.00
15	64QAM	1	74	20.36	20.45	20.69	20.66	20.57	22.00
15	64QAM	36	0	19.31	19.53	19.63	19.52	19.52	21.00
15	64QAM	36	20	19.58	19.54	19.76	19.68	19.71	21.00
15	64QAM	36	39	19.50	19.63	19.73	19.69	19.55	21.00
15	64QAM	75	0	19.50	19.64	19.78	19.63	19.68	21.00
15	256QAM	1	0	17.43	17.53	17.76	17.56	17.64	19.00
15	256QAM	1	37	17.37	17.49	17.61	17.51	17.57	19.00
15	256QAM	1	74	17.42	17.52	17.65	17.54	17.44	19.00
15	256QAM	36	0	17.54	17.62	17.81	17.76	17.76	19.00
15	256QAM	36	20	17.58	17.53	17.76	17.77	17.71	19.00
15	256QAM	36	39	17.47	17.44	17.64	17.67	17.52	19.00
15	256QAM	75	0	17.48	17.54	17.73	17.63	17.65	19.00
Channel				39700	40160	40620	41080	41540	24.00
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.68	22.70	22.79	22.77	22.78	24.00
10	QPSK	1	25	22.43	22.53	22.73	22.64	22.48	24.00
10	QPSK	1	49	22.43	22.59	22.71	22.67	22.65	24.00
10	QPSK	25	0	21.75	21.90	21.95	21.78	21.82	23.00
10	QPSK	25	12	21.51	21.59	21.82	21.72	21.70	23.00



10	QPSK	25	25	21.47	21.44	21.69	21.51	21.56	23.00
10	QPSK	50	0	21.46	21.64	21.88	21.66	21.64	23.00
10	16QAM	1	0	21.40	21.50	21.62	21.60	21.53	23.00
10	16QAM	1	25	21.51	21.65	21.75	21.57	21.67	23.00
10	16QAM	1	49	21.35	21.57	21.66	21.60	21.66	23.00
10	16QAM	25	0	20.40	20.52	20.71	20.58	20.56	22.00
10	16QAM	25	12	20.40	20.47	20.65	20.49	20.49	22.00
10	16QAM	25	25	20.63	20.68	20.83	20.63	20.70	22.00
10	16QAM	50	0	20.42	20.51	20.76	20.60	20.57	22.00
10	64QAM	1	0	20.45	20.64	20.71	20.69	20.69	22.00
10	64QAM	1	25	20.55	20.65	20.81	20.79	20.67	22.00
10	64QAM	1	49	20.33	20.48	20.62	20.59	20.59	22.00
10	64QAM	25	0	19.39	19.59	19.62	19.52	19.52	21.00
10	64QAM	25	12	19.55	19.54	19.76	19.64	19.72	21.00
10	64QAM	25	25	19.52	19.59	19.69	19.71	19.63	21.00
10	64QAM	50	0	19.49	19.57	19.69	19.69	19.67	21.00
10	256QAM	1	0	17.46	17.44	17.76	17.57	17.64	19.00
10	256QAM	1	25	17.37	17.50	17.63	17.62	17.59	19.00
10	256QAM	1	49	17.37	17.55	17.61	17.56	17.49	19.00
10	256QAM	25	0	17.60	17.64	17.80	17.75	17.76	19.00
10	256QAM	25	12	17.57	17.61	17.80	17.67	17.75	19.00
10	256QAM	25	25	17.59	17.50	17.67	17.60	17.63	19.00
10	256QAM	50	0	17.44	17.42	17.72	17.60	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.63	22.71	22.78	22.76	22.73	24.00
5	QPSK	1	12	22.33	22.53	22.62	22.64	22.59	24.00
5	QPSK	1	24	22.37	22.56	22.75	22.62	22.72	24.00
5	QPSK	12	0	21.79	21.88	21.91	21.84	21.85	23.00
5	QPSK	12	7	21.49	21.67	21.82	21.77	21.80	23.00
5	QPSK	12	13	21.41	21.57	21.74	21.54	21.62	23.00
5	QPSK	25	0	21.50	21.74	21.88	21.59	21.75	23.00
5	16QAM	1	0	21.42	21.49	21.57	21.58	21.60	23.00
5	16QAM	1	12	21.57	21.70	21.81	21.68	21.74	23.00
5	16QAM	1	24	21.44	21.54	21.70	21.66	21.65	23.00
5	16QAM	12	0	20.38	20.50	20.66	20.65	20.57	22.00
5	16QAM	12	7	20.35	20.45	20.56	20.54	20.58	22.00
5	16QAM	12	13	20.61	20.62	20.76	20.68	20.69	22.00
5	16QAM	25	0	20.43	20.58	20.69	20.60	20.59	22.00
5	64QAM	1	0	20.45	20.70	20.80	20.68	20.67	22.00
5	64QAM	1	12	20.59	20.64	20.74	20.80	20.67	22.00
5	64QAM	1	24	20.37	20.45	20.67	20.58	20.55	22.00
5	64QAM	12	0	19.42	19.58	19.66	19.58	19.53	21.00
5	64QAM	12	7	19.68	19.60	19.81	19.61	19.75	21.00
5	64QAM	12	13	19.47	19.55	19.80	19.63	19.51	21.00
5	64QAM	25	0	19.54	19.53	19.80	19.60	19.75	21.00
5	256QAM	1	0	17.36	17.50	17.75	17.62	17.68	19.00
5	256QAM	1	12	17.43	17.59	17.63	17.50	17.52	19.00
5	256QAM	1	24	17.36	17.58	17.68	17.52	17.51	19.00
5	256QAM	12	0	17.62	17.60	17.77	17.81	17.71	19.00
5	256QAM	12	7	17.64	17.61	17.80	17.75	17.70	19.00
5	256QAM	12	13	17.47	17.52	17.74	17.67	17.55	19.00
5	256QAM	25	0	17.51	17.55	17.70	17.56	17.68	19.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 0_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.73	22.84	22.90	22.88	22.87	23.90
20	QPSK	1	49	22.47	22.64	22.76	22.71	22.62	23.90
20	QPSK	1	99	22.51	22.62	22.78	22.75	22.74	23.90
20	QPSK	50	0	21.86	21.92	21.97	21.85	21.93	22.90
20	QPSK	50	24	21.61	21.70	21.88	21.80	21.82	22.90
20	QPSK	50	50	21.49	21.59	21.76	21.60	21.64	22.90
20	QPSK	100	0	21.60	21.75	21.89	21.73	21.79	22.90
20	16QAM	1	0	21.52	21.63	21.72	21.66	21.67	22.90
20	16QAM	1	49	21.59	21.74	21.86	21.71	21.79	22.90
20	16QAM	1	99	21.47	21.61	21.77	21.68	21.70	22.90
20	16QAM	50	0	20.46	20.61	20.75	20.70	20.69	21.90
20	16QAM	50	24	20.47	20.57	20.68	20.62	20.62	21.90



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20	16QAM	50	50	20.72	20.70	20.90	20.74	20.73	21.90
20	16QAM	100	0	20.51	20.61	20.78	20.68	20.64	21.90
20	64QAM	1	0	20.58	20.75	20.85	20.79	20.81	21.90
20	64QAM	1	49	20.63	20.73	20.86	20.83	20.75	21.90
20	64QAM	1	99	20.47	20.59	20.71	20.67	20.60	21.90
20	64QAM	50	0	19.46	19.62	19.69	19.63	19.62	20.90
20	64QAM	50	24	19.69	19.68	19.86	19.75	19.80	20.90
20	64QAM	50	50	19.57	19.66	19.82	19.78	19.65	20.90
20	64QAM	100	0	19.58	19.67	19.83	19.74	19.76	20.90
20	256QAM	1	0	17.49	17.58	17.77	17.67	17.74	18.90
20	256QAM	1	49	17.49	17.63	17.69	17.65	17.65	18.90
20	256QAM	1	99	17.46	17.63	17.72	17.60	17.55	18.90
20	256QAM	50	0	17.69	17.70	17.88	17.84	17.79	18.90
20	256QAM	50	24	17.70	17.68	17.87	17.81	17.78	18.90
20	256QAM	50	50	17.60	17.59	17.79	17.72	17.65	18.90
20	256QAM	100	0	17.59	17.56	17.75	17.68	17.71	18.90
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.64	22.71	22.87	22.84	22.83	23.90
15	QPSK	1	37	22.34	22.55	22.69	22.62	22.55	23.90
15	QPSK	1	74	22.49	22.51	22.65	22.74	22.64	23.90
15	QPSK	36	0	21.79	21.86	21.88	21.78	21.83	22.90
15	QPSK	36	20	21.59	21.55	21.79	21.71	21.69	22.90
15	QPSK	36	39	21.41	21.53	21.68	21.46	21.49	22.90
15	QPSK	75	0	21.54	21.68	21.80	21.63	21.67	22.90
15	16QAM	1	0	21.42	21.58	21.71	21.62	21.56	22.90
15	16QAM	1	37	21.46	21.62	21.85	21.62	21.74	22.90
15	16QAM	1	74	21.38	21.57	21.65	21.54	21.67	22.90
15	16QAM	36	0	20.31	20.48	20.69	20.65	20.57	21.90
15	16QAM	36	20	20.45	20.50	20.54	20.57	20.57	21.90
15	16QAM	36	39	20.68	20.58	20.80	20.67	20.69	21.90
15	16QAM	75	0	20.48	20.59	20.68	20.61	20.62	21.90
15	64QAM	1	0	20.51	20.64	20.77	20.77	20.79	21.90
15	64QAM	1	37	20.49	20.62	20.72	20.81	20.62	21.90
15	64QAM	1	74	20.36	20.45	20.69	20.66	20.57	21.90
15	64QAM	36	0	19.31	19.53	19.63	19.52	19.52	20.90
15	64QAM	36	20	19.58	19.54	19.76	19.68	19.71	20.90
15	64QAM	36	39	19.50	19.63	19.73	19.69	19.55	20.90
15	64QAM	75	0	19.50	19.64	19.78	19.63	19.68	20.90
15	256QAM	1	0	17.43	17.53	17.76	17.56	17.64	18.90
15	256QAM	1	37	17.37	17.49	17.61	17.51	17.57	18.90
15	256QAM	1	74	17.42	17.52	17.65	17.54	17.44	18.90
15	256QAM	36	0	17.54	17.62	17.81	17.76	17.76	18.90
15	256QAM	36	20	17.58	17.53	17.76	17.77	17.71	18.90
15	256QAM	36	39	17.47	17.44	17.64	17.67	17.52	18.90
15	256QAM	75	0	17.48	17.54	17.73	17.63	17.65	18.90
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.68	22.70	22.79	22.77	22.78	23.90
10	QPSK	1	25	22.43	22.53	22.73	22.64	22.48	23.90
10	QPSK	1	49	22.43	22.59	22.71	22.67	22.65	23.90
10	QPSK	25	0	21.75	21.90	21.95	21.78	21.82	22.90
10	QPSK	25	12	21.51	21.59	21.82	21.72	21.70	22.90
10	QPSK	25	25	21.47	21.44	21.69	21.51	21.56	22.90
10	QPSK	50	0	21.46	21.64	21.88	21.66	21.64	22.90
10	16QAM	1	0	21.40	21.50	21.62	21.60	21.53	22.90
10	16QAM	1	25	21.51	21.65	21.75	21.57	21.67	22.90
10	16QAM	1	49	21.35	21.57	21.66	21.60	21.66	22.90
10	16QAM	25	0	20.40	20.52	20.71	20.58	20.56	21.90
10	16QAM	25	12	20.40	20.47	20.65	20.49	20.49	21.90
10	16QAM	25	25	20.63	20.68	20.83	20.63	20.70	21.90
10	16QAM	50	0	20.42	20.51	20.76	20.60	20.57	21.90
10	64QAM	1	0	20.45	20.64	20.71	20.69	20.69	21.90
10	64QAM	1	25	20.55	20.65	20.81	20.79	20.67	21.90
10	64QAM	1	49	20.33	20.48	20.62	20.59	20.59	21.90
10	64QAM	25	0	19.39	19.59	19.62	19.52	19.52	20.90
10	64QAM	25	12	19.55	19.54	19.76	19.64	19.72	20.90
10	64QAM	25	25	19.52	19.59	19.69	19.71	19.63	20.90
10	64QAM	50	0	19.49	19.57	19.69	19.69	19.67	20.90
10	256QAM	1	0	17.46	17.44	17.76	17.57	17.64	18.90
10	256QAM	1	25	17.37	17.50	17.63	17.62	17.59	18.90
10	256QAM	1	49	17.37	17.55	17.61	17.56	17.49	18.90
10	256QAM	25	0	17.60	17.64	17.80	17.75	17.76	18.90
10	256QAM	25	12	17.57	17.61	17.80	17.67	17.75	18.90
10	256QAM	25	25	17.59	17.50	17.67	17.60	17.63	18.90
10	256QAM	50	0	17.44	17.42	17.72	17.60	17.69	18.90



Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.63	22.71	22.78	22.76	22.73	23.90
5	QPSK	1	12	22.33	22.53	22.62	22.64	22.59	23.90
5	QPSK	1	24	22.37	22.56	22.75	22.62	22.72	23.90
5	QPSK	12	0	21.79	21.88	21.91	21.84	21.85	22.90
5	QPSK	12	7	21.49	21.67	21.82	21.77	21.80	22.90
5	QPSK	12	13	21.41	21.57	21.74	21.54	21.62	22.90
5	QPSK	25	0	21.50	21.74	21.88	21.59	21.75	22.90
5	16QAM	1	0	21.42	21.49	21.57	21.58	21.60	22.90
5	16QAM	1	12	21.57	21.70	21.81	21.68	21.74	22.90
5	16QAM	1	24	21.44	21.54	21.70	21.66	21.65	22.90
5	16QAM	12	0	20.38	20.50	20.66	20.65	20.57	21.90
5	16QAM	12	7	20.35	20.45	20.56	20.54	20.58	21.90
5	16QAM	12	13	20.61	20.62	20.76	20.68	20.69	21.90
5	16QAM	25	0	20.43	20.58	20.69	20.60	20.59	21.90
5	64QAM	1	0	20.45	20.70	20.80	20.68	20.67	21.90
5	64QAM	1	12	20.59	20.64	20.74	20.80	20.67	21.90
5	64QAM	1	24	20.37	20.45	20.67	20.58	20.55	21.90
5	64QAM	12	0	19.42	19.58	19.66	19.58	19.53	20.90
5	64QAM	12	7	19.68	19.60	19.81	19.61	19.75	20.90
5	64QAM	12	13	19.47	19.55	19.80	19.63	19.51	20.90
5	64QAM	25	0	19.54	19.53	19.80	19.60	19.75	20.90
5	256QAM	1	0	17.36	17.50	17.75	17.62	17.68	18.90
5	256QAM	1	12	17.43	17.59	17.63	17.50	17.52	18.90
5	256QAM	1	24	17.36	17.58	17.68	17.52	17.51	18.90
5	256QAM	12	0	17.62	17.60	17.77	17.81	17.71	18.90
5	256QAM	12	7	17.64	17.61	17.80	17.75	17.70	18.90
5	256QAM	12	13	17.47	17.52	17.74	17.67	17.55	18.90
5	256QAM	25	0	17.51	17.55	17.70	17.56	17.68	18.90

【LTE Band 41__FCC (2496~2690MHz)_Ant 0_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.73	22.84	22.90	22.88	22.87	24.00
20	QPSK	1	49	22.47	22.64	22.76	22.71	22.62	24.00
20	QPSK	1	99	22.51	22.62	22.78	22.75	22.74	24.00
20	QPSK	50	0	21.86	21.92	21.97	21.85	21.93	23.00
20	QPSK	50	24	21.61	21.70	21.88	21.80	21.82	23.00
20	QPSK	50	50	21.49	21.59	21.76	21.60	21.64	23.00
20	QPSK	100	0	21.60	21.75	21.89	21.73	21.79	23.00
20	16QAM	1	0	21.52	21.63	21.72	21.66	21.67	23.00
20	16QAM	1	49	21.59	21.74	21.86	21.71	21.79	23.00
20	16QAM	1	99	21.47	21.61	21.77	21.68	21.70	23.00
20	16QAM	50	0	20.46	20.61	20.75	20.70	20.69	22.00
20	16QAM	50	24	20.47	20.57	20.68	20.62	20.62	22.00
20	16QAM	50	50	20.72	20.70	20.90	20.74	20.73	22.00
20	16QAM	100	0	20.51	20.61	20.78	20.68	20.64	22.00
20	64QAM	1	0	20.58	20.75	20.85	20.79	20.81	22.00
20	64QAM	1	49	20.63	20.73	20.86	20.83	20.75	22.00
20	64QAM	1	99	20.47	20.59	20.71	20.67	20.60	22.00
20	64QAM	50	0	19.46	19.62	19.69	19.63	19.62	21.00
20	64QAM	50	24	19.69	19.68	19.86	19.75	19.80	21.00
20	64QAM	50	50	19.57	19.66	19.82	19.78	19.65	21.00
20	64QAM	100	0	19.58	19.67	19.83	19.74	19.76	21.00
20	256QAM	1	0	17.49	17.58	17.77	17.67	17.74	19.00
20	256QAM	1	49	17.49	17.63	17.69	17.65	17.65	19.00
20	256QAM	1	99	17.46	17.63	17.72	17.60	17.55	19.00
20	256QAM	50	0	17.69	17.70	17.88	17.84	17.79	19.00
20	256QAM	50	24	17.70	17.68	17.87	17.81	17.78	19.00
20	256QAM	50	50	17.60	17.59	17.79	17.72	17.65	19.00
20	256QAM	100	0	17.59	17.56	17.75	17.68	17.71	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.64	22.71	22.87	22.84	22.83	24.00
15	QPSK	1	37	22.34	22.55	22.69	22.62	22.55	24.00
15	QPSK	1	74	22.49	22.51	22.65	22.74	22.64	24.00
15	QPSK	36	0	21.79	21.86	21.88	21.78	21.83	23.00
15	QPSK	36	20	21.59	21.55	21.79	21.71	21.69	23.00



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15	QPSK	36	39	21.41	21.53	21.68	21.46	21.49	23.00
15	QPSK	75	0	21.54	21.68	21.80	21.63	21.67	23.00
15	16QAM	1	0	21.42	21.58	21.71	21.62	21.56	23.00
15	16QAM	1	37	21.46	21.62	21.85	21.62	21.74	23.00
15	16QAM	1	74	21.38	21.57	21.65	21.54	21.67	23.00
15	16QAM	36	0	20.31	20.48	20.69	20.65	20.57	22.00
15	16QAM	36	20	20.45	20.50	20.54	20.57	20.57	22.00
15	16QAM	36	39	20.68	20.58	20.80	20.67	20.69	22.00
15	16QAM	75	0	20.48	20.59	20.68	20.61	20.62	22.00
15	64QAM	1	0	20.51	20.64	20.77	20.77	20.79	22.00
15	64QAM	1	37	20.49	20.62	20.72	20.81	20.62	22.00
15	64QAM	1	74	20.36	20.45	20.69	20.66	20.57	22.00
15	64QAM	36	0	19.31	19.53	19.63	19.52	19.52	21.00
15	64QAM	36	20	19.58	19.54	19.76	19.68	19.71	21.00
15	64QAM	36	39	19.50	19.63	19.73	19.69	19.55	21.00
15	64QAM	75	0	19.50	19.64	19.78	19.63	19.68	21.00
15	256QAM	1	0	17.43	17.53	17.76	17.56	17.64	19.00
15	256QAM	1	37	17.37	17.49	17.61	17.51	17.57	19.00
15	256QAM	1	74	17.42	17.52	17.65	17.54	17.44	19.00
15	256QAM	36	0	17.54	17.62	17.81	17.76	17.76	19.00
15	256QAM	36	20	17.58	17.53	17.76	17.77	17.71	19.00
15	256QAM	36	39	17.47	17.44	17.64	17.67	17.52	19.00
15	256QAM	75	0	17.48	17.54	17.73	17.63	17.65	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.68	22.70	22.79	22.77	22.78	24.00
10	QPSK	1	25	22.43	22.53	22.73	22.64	22.48	24.00
10	QPSK	1	49	22.43	22.59	22.71	22.67	22.65	24.00
10	QPSK	25	0	21.75	21.90	21.95	21.78	21.82	23.00
10	QPSK	25	12	21.51	21.59	21.82	21.72	21.70	23.00
10	QPSK	25	25	21.47	21.44	21.69	21.51	21.56	23.00
10	QPSK	50	0	21.46	21.64	21.88	21.66	21.64	23.00
10	16QAM	1	0	21.40	21.50	21.62	21.60	21.53	23.00
10	16QAM	1	25	21.51	21.65	21.75	21.57	21.67	23.00
10	16QAM	1	49	21.35	21.57	21.66	21.60	21.66	23.00
10	16QAM	25	0	20.40	20.52	20.71	20.58	20.56	22.00
10	16QAM	25	12	20.40	20.47	20.65	20.49	20.49	22.00
10	16QAM	25	25	20.63	20.68	20.83	20.63	20.70	22.00
10	16QAM	50	0	20.42	20.51	20.76	20.60	20.57	22.00
10	64QAM	1	0	20.45	20.64	20.71	20.69	20.69	22.00
10	64QAM	1	25	20.55	20.65	20.81	20.79	20.67	22.00
10	64QAM	1	49	20.33	20.48	20.62	20.59	20.59	22.00
10	64QAM	25	0	19.39	19.59	19.62	19.52	19.52	21.00
10	64QAM	25	12	19.55	19.54	19.76	19.64	19.72	21.00
10	64QAM	25	25	19.52	19.59	19.69	19.71	19.63	21.00
10	64QAM	50	0	19.49	19.57	19.69	19.69	19.67	21.00
10	256QAM	1	0	17.46	17.44	17.76	17.57	17.64	19.00
10	256QAM	1	25	17.37	17.50	17.63	17.62	17.59	19.00
10	256QAM	1	49	17.37	17.55	17.61	17.56	17.49	19.00
10	256QAM	25	0	17.60	17.64	17.80	17.75	17.76	19.00
10	256QAM	25	12	17.57	17.61	17.80	17.67	17.75	19.00
10	256QAM	25	25	17.59	17.50	17.67	17.60	17.63	19.00
10	256QAM	50	0	17.44	17.42	17.72	17.60	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.63	22.71	22.78	22.76	22.73	24.00
5	QPSK	1	12	22.33	22.53	22.62	22.64	22.59	24.00
5	QPSK	1	24	22.37	22.56	22.75	22.62	22.72	24.00
5	QPSK	12	0	21.79	21.88	21.91	21.84	21.85	23.00
5	QPSK	12	7	21.49	21.67	21.82	21.77	21.80	23.00
5	QPSK	12	13	21.41	21.57	21.74	21.54	21.62	23.00
5	QPSK	25	0	21.50	21.74	21.88	21.59	21.75	23.00
5	16QAM	1	0	21.42	21.49	21.57	21.58	21.60	23.00
5	16QAM	1	12	21.57	21.70	21.81	21.68	21.74	23.00
5	16QAM	1	24	21.44	21.54	21.70	21.66	21.65	23.00
5	16QAM	12	0	20.38	20.50	20.66	20.65	20.57	22.00
5	16QAM	12	7	20.35	20.45	20.56	20.54	20.58	22.00
5	16QAM	12	13	20.61	20.62	20.76	20.68	20.69	22.00
5	16QAM	25	0	20.43	20.58	20.69	20.60	20.59	22.00
5	64QAM	1	0	20.45	20.70	20.80	20.68	20.67	22.00
5	64QAM	1	12	20.59	20.64	20.74	20.80	20.67	22.00
5	64QAM	1	24	20.37	20.45	20.67	20.58	20.55	22.00
5	64QAM	12	0	19.42	19.58	19.66	19.58	19.53	21.00
5	64QAM	12	7	19.68	19.60	19.81	19.61	19.75	21.00
5	64QAM	12	13	19.47	19.55	19.80	19.63	19.51	21.00
5	64QAM	25	0	19.54	19.53	19.80	19.60	19.75	21.00



5	256QAM	1	0	17.36	17.50	17.75	17.62	17.68	19.00
5	256QAM	1	12	17.43	17.59	17.63	17.50	17.52	19.00
5	256QAM	1	24	17.36	17.58	17.68	17.52	17.51	19.00
5	256QAM	12	0	17.62	17.60	17.77	17.81	17.71	19.00
5	256QAM	12	7	17.64	17.61	17.80	17.75	17.70	19.00
5	256QAM	12	13	17.47	17.52	17.74	17.67	17.55	19.00
5	256QAM	25	0	17.51	17.55	17.70	17.56	17.68	19.00

【LTE Band 41__FCC (2496~2690MHz)_Ant 0_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	16.20
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	14.91	14.95	15.00	14.93	14.92	16.20
20	QPSK	1	49	14.83	14.90	14.85	14.89	14.83	16.20
20	QPSK	1	99	14.85	14.90	14.85	14.79	14.87	16.20
20	QPSK	50	0	14.83	14.85	14.98	14.86	14.89	16.20
20	QPSK	50	24	14.80	14.82	14.83	14.81	14.82	16.20
20	QPSK	50	50	14.82	14.81	14.82	14.83	14.81	16.20
20	QPSK	100	0	14.84	14.90	14.93	14.86	14.86	16.20
20	16QAM	1	0	14.86	14.85	14.95	14.89	14.77	16.20
20	16QAM	1	49	14.83	14.89	14.87	14.85	14.79	16.20
20	16QAM	1	99	14.86	14.92	14.93	14.82	14.83	16.20
20	16QAM	50	0	14.78	14.81	14.94	14.89	14.87	16.20
20	16QAM	50	24	14.85	14.91	14.90	14.80	14.78	16.20
20	16QAM	50	50	14.81	14.86	14.90	14.79	14.88	16.20
20	16QAM	100	0	14.83	14.91	14.93	14.79	14.82	16.20
20	64QAM	1	0	14.88	14.90	14.89	14.82	14.87	16.20
20	64QAM	1	49	14.86	14.88	14.91	14.89	14.84	16.20
20	64QAM	1	99	14.77	14.84	14.95	14.86	14.88	16.20
20	64QAM	50	0	14.87	14.91	14.90	14.83	14.82	16.20
20	64QAM	50	24	14.80	14.88	14.91	14.83	14.88	16.20
20	64QAM	50	50	14.81	14.88	14.94	14.82	14.89	16.20
20	64QAM	100	0	14.85	14.87	14.91	14.81	14.82	16.20
20	256QAM	1	0	14.80	14.91	14.86	14.87	14.83	16.20
20	256QAM	1	49	14.84	14.86	14.89	14.87	14.80	16.20
20	256QAM	1	99	14.76	14.81	14.86	14.83	14.82	16.20
20	256QAM	50	0	14.82	14.83	14.97	14.82	14.80	16.20
20	256QAM	50	24	14.77	14.89	14.95	14.84	14.88	16.20
20	256QAM	50	50	14.77	14.86	14.96	14.86	14.89	16.20
20	256QAM	100	0	14.78	14.81	14.95	14.84	14.87	16.20
Channel				39725	40173	40620	41068	41515	16.20
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	14.86	14.93	14.99	14.82	14.89	16.20
15	QPSK	1	37	14.68	14.79	14.76	14.79	14.72	16.20
15	QPSK	1	74	14.75	14.82	14.90	14.66	14.83	16.20
15	QPSK	36	0	14.81	14.70	14.97	14.75	14.75	16.20
15	QPSK	36	20	14.79	14.76	14.81	14.85	14.67	16.20
15	QPSK	36	39	14.69	14.81	14.86	14.79	14.80	16.20
15	QPSK	75	0	14.77	14.78	14.91	14.73	14.74	16.20
15	16QAM	1	0	14.84	14.77	14.84	14.78	14.75	16.20
15	16QAM	1	37	14.76	14.77	14.75	14.83	14.65	16.20
15	16QAM	1	74	14.79	14.77	14.90	14.70	14.74	16.20
15	16QAM	36	0	14.68	14.71	14.92	14.80	14.73	16.20
15	16QAM	36	20	14.76	14.80	14.87	14.74	14.68	16.20
15	16QAM	36	39	14.71	14.73	14.75	14.73	14.74	16.20
15	16QAM	75	0	14.80	14.76	14.84	14.72	14.79	16.20
15	64QAM	1	0	14.75	14.83	14.74	14.71	14.75	16.20
15	64QAM	1	37	14.74	14.75	14.84	14.80	14.76	16.20
15	64QAM	1	74	14.71	14.79	14.93	14.76	14.87	16.20
15	64QAM	36	0	14.81	14.87	14.81	14.75	14.72	16.20
15	64QAM	36	20	14.73	14.81	14.84	14.76	14.81	16.20
15	64QAM	36	39	14.71	14.75	14.89	14.68	14.84	16.20
15	64QAM	75	0	14.75	14.79	14.89	14.76	14.73	16.20
15	256QAM	1	0	14.79	14.82	14.72	14.76	14.81	16.20
15	256QAM	1	37	14.78	14.79	14.87	14.72	14.77	16.20
15	256QAM	1	74	14.63	14.75	14.81	14.75	14.80	16.20
15	256QAM	36	0	14.79	14.81	14.83	14.77	14.76	16.20
15	256QAM	36	20	14.70	14.88	14.89	14.69	14.78	16.20
15	256QAM	36	39	14.64	14.76	14.90	14.82	14.84	16.20
15	256QAM	75	0	14.64	14.78	14.93	14.74	14.81	16.20



Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	14.79	14.87	14.87	14.86	14.88	16.20
10	QPSK	1	25	14.78	14.78	14.71	14.76	14.80	16.20
10	QPSK	1	49	14.82	14.81	14.88	14.66	14.78	16.20
10	QPSK	25	0	14.81	14.73	14.92	14.79	14.75	16.20
10	QPSK	25	12	14.71	14.70	14.89	14.84	14.71	16.20
10	QPSK	25	25	14.72	14.71	14.77	14.77	14.82	16.20
10	QPSK	50	0	14.76	14.87	14.91	14.82	14.74	16.20
10	16QAM	1	0	14.81	14.79	14.86	14.75	14.75	16.20
10	16QAM	1	25	14.71	14.83	14.76	14.83	14.67	16.20
10	16QAM	1	49	14.72	14.88	14.88	14.75	14.70	16.20
10	16QAM	25	0	14.70	14.78	14.93	14.76	14.81	16.20
10	16QAM	25	12	14.79	14.90	14.81	14.73	14.76	16.20
10	16QAM	25	25	14.74	14.83	14.84	14.77	14.73	16.20
10	16QAM	50	0	14.72	14.78	14.82	14.67	14.75	16.20
10	64QAM	1	0	14.83	14.78	14.81	14.80	14.78	16.20
10	64QAM	1	25	14.84	14.79	14.78	14.84	14.80	16.20
10	64QAM	1	49	14.67	14.74	14.94	14.84	14.80	16.20
10	64QAM	25	0	14.84	14.85	14.87	14.71	14.69	16.20
10	64QAM	25	12	14.68	14.82	14.78	14.74	14.81	16.20
10	64QAM	25	25	14.77	14.82	14.86	14.74	14.83	16.20
10	64QAM	50	0	14.71	14.78	14.80	14.75	14.73	16.20
10	256QAM	1	0	14.70	14.89	14.85	14.76	14.76	16.20
10	256QAM	1	25	14.80	14.81	14.84	14.84	14.68	16.20
10	256QAM	1	49	14.71	14.76	14.71	14.81	14.77	16.20
10	256QAM	25	0	14.73	14.75	14.95	14.75	14.65	16.20
10	256QAM	25	12	14.68	14.75	14.87	14.77	14.81	16.20
10	256QAM	25	25	14.65	14.75	14.93	14.76	14.75	16.20
10	256QAM	50	0	14.73	14.70	14.88	14.76	14.76	16.20
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	14.81	14.82	14.88	14.86	14.89	16.20
5	QPSK	1	12	14.79	14.80	14.82	14.88	14.74	16.20
5	QPSK	1	24	14.74	14.77	14.90	14.69	14.83	16.20
5	QPSK	12	0	14.78	14.76	14.92	14.80	14.81	16.20
5	QPSK	12	7	14.80	14.72	14.81	14.78	14.76	16.20
5	QPSK	12	13	14.75	14.71	14.85	14.72	14.83	16.20
5	QPSK	25	0	14.73	14.87	14.90	14.83	14.77	16.20
5	16QAM	1	0	14.78	14.75	14.90	14.87	14.76	16.20
5	16QAM	1	12	14.68	14.81	14.85	14.79	14.76	16.20
5	16QAM	1	24	14.82	14.87	14.82	14.74	14.77	16.20
5	16QAM	12	0	14.67	14.70	14.84	14.86	14.85	16.20
5	16QAM	12	7	14.74	14.82	14.88	14.68	14.77	16.20
5	16QAM	12	13	14.67	14.81	14.83	14.70	14.86	16.20
5	16QAM	25	0	14.72	14.90	14.85	14.70	14.77	16.20
5	64QAM	1	0	14.75	14.81	14.76	14.75	14.85	16.20
5	64QAM	1	12	14.74	14.83	14.87	14.80	14.81	16.20
5	64QAM	1	24	14.75	14.69	14.90	14.81	14.83	16.20
5	64QAM	12	0	14.80	14.80	14.85	14.76	14.80	16.20
5	64QAM	12	7	14.76	14.80	14.81	14.76	14.73	16.20
5	64QAM	12	13	14.68	14.82	14.79	14.77	14.82	16.20
5	64QAM	25	0	14.78	14.74	14.86	14.72	14.70	16.20
5	256QAM	1	0	14.73	14.81	14.80	14.73	14.77	16.20
5	256QAM	1	12	14.82	14.74	14.86	14.81	14.74	16.20
5	256QAM	1	24	14.66	14.71	14.75	14.80	14.69	16.20
5	256QAM	12	0	14.79	14.78	14.94	14.73	14.70	16.20
5	256QAM	12	7	14.70	14.78	14.82	14.82	14.78	16.20
5	256QAM	12	13	14.67	14.72	14.94	14.72	14.78	16.20
5	256QAM	25	0	14.75	14.72	14.83	14.72	14.79	16.20

【LTE Band 41__FCC (2496~2690MHz)_Ant 0_DSI 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.73	22.84	22.90	22.88	22.87	23.60
20	QPSK	1	49	22.47	22.64	22.76	22.71	22.62	23.60
20	QPSK	1	99	22.51	22.62	22.78	22.75	22.74	23.60
20	QPSK	50	0	21.86	21.92	21.97	21.85	21.93	22.60
20	QPSK	50	24	21.61	21.70	21.88	21.80	21.82	22.60



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20	QPSK	50	50	21.49	21.59	21.76	21.60	21.64	22.60
20	QPSK	100	0	21.60	21.75	21.89	21.73	21.79	22.60
20	16QAM	1	0	21.52	21.63	21.72	21.66	21.67	22.60
20	16QAM	1	49	21.59	21.74	21.86	21.71	21.79	22.60
20	16QAM	1	99	21.47	21.61	21.77	21.68	21.70	22.60
20	16QAM	50	0	20.46	20.61	20.75	20.70	20.69	21.60
20	16QAM	50	24	20.47	20.57	20.68	20.62	20.62	21.60
20	16QAM	50	50	20.72	20.70	20.90	20.74	20.73	21.60
20	16QAM	100	0	20.51	20.61	20.78	20.68	20.64	21.60
20	64QAM	1	0	20.58	20.75	20.85	20.79	20.81	21.60
20	64QAM	1	49	20.63	20.73	20.86	20.83	20.75	21.60
20	64QAM	1	99	20.47	20.59	20.71	20.67	20.60	21.60
20	64QAM	50	0	19.46	19.62	19.69	19.63	19.62	20.60
20	64QAM	50	24	19.69	19.68	19.86	19.75	19.80	20.60
20	64QAM	50	50	19.57	19.66	19.82	19.78	19.65	20.60
20	64QAM	100	0	19.58	19.67	19.83	19.74	19.76	20.60
20	256QAM	1	0	17.49	17.58	17.77	17.67	17.74	18.60
20	256QAM	1	49	17.49	17.63	17.69	17.65	17.65	18.60
20	256QAM	1	99	17.46	17.63	17.72	17.60	17.55	18.60
20	256QAM	50	0	17.69	17.70	17.88	17.84	17.79	18.60
20	256QAM	50	24	17.70	17.68	17.87	17.81	17.78	18.60
20	256QAM	50	50	17.60	17.59	17.79	17.72	17.65	18.60
20	256QAM	100	0	17.59	17.56	17.75	17.68	17.71	18.60
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.64	22.71	22.87	22.84	22.83	23.60
15	QPSK	1	37	22.34	22.55	22.69	22.62	22.55	23.60
15	QPSK	1	74	22.49	22.51	22.65	22.74	22.64	23.60
15	QPSK	36	0	21.79	21.86	21.88	21.78	21.83	22.60
15	QPSK	36	20	21.59	21.55	21.79	21.71	21.69	22.60
15	QPSK	36	39	21.41	21.53	21.68	21.46	21.49	22.60
15	QPSK	75	0	21.54	21.68	21.80	21.63	21.67	22.60
15	16QAM	1	0	21.42	21.58	21.71	21.62	21.56	22.60
15	16QAM	1	37	21.46	21.62	21.85	21.62	21.74	22.60
15	16QAM	1	74	21.38	21.57	21.65	21.54	21.67	22.60
15	16QAM	36	0	20.31	20.48	20.69	20.65	20.57	21.60
15	16QAM	36	20	20.45	20.50	20.54	20.57	20.57	21.60
15	16QAM	36	39	20.68	20.58	20.80	20.67	20.69	21.60
15	16QAM	75	0	20.48	20.59	20.68	20.61	20.62	21.60
15	64QAM	1	0	20.51	20.64	20.77	20.77	20.79	21.60
15	64QAM	1	37	20.49	20.62	20.72	20.81	20.62	21.60
15	64QAM	1	74	20.36	20.45	20.69	20.66	20.57	21.60
15	64QAM	36	0	19.31	19.53	19.63	19.52	19.52	20.60
15	64QAM	36	20	19.58	19.54	19.76	19.68	19.71	20.60
15	64QAM	36	39	19.50	19.63	19.73	19.69	19.55	20.60
15	64QAM	75	0	19.50	19.64	19.78	19.63	19.68	20.60
15	256QAM	1	0	17.43	17.53	17.76	17.56	17.64	18.60
15	256QAM	1	37	17.37	17.49	17.61	17.51	17.57	18.60
15	256QAM	1	74	17.42	17.52	17.65	17.54	17.44	18.60
15	256QAM	36	0	17.54	17.62	17.81	17.76	17.76	18.60
15	256QAM	36	20	17.58	17.53	17.76	17.77	17.71	18.60
15	256QAM	36	39	17.47	17.44	17.64	17.67	17.52	18.60
15	256QAM	75	0	17.48	17.54	17.73	17.63	17.65	18.60
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.68	22.70	22.79	22.77	22.78	23.60
10	QPSK	1	25	22.43	22.53	22.73	22.64	22.48	23.60
10	QPSK	1	49	22.43	22.59	22.71	22.67	22.65	23.60
10	QPSK	25	0	21.75	21.90	21.95	21.78	21.82	22.60
10	QPSK	25	12	21.51	21.59	21.82	21.72	21.70	22.60
10	QPSK	25	25	21.47	21.44	21.69	21.51	21.56	22.60
10	QPSK	50	0	21.46	21.64	21.88	21.66	21.64	22.60
10	16QAM	1	0	21.40	21.50	21.62	21.60	21.53	22.60
10	16QAM	1	25	21.51	21.65	21.75	21.57	21.67	22.60
10	16QAM	1	49	21.35	21.57	21.66	21.60	21.66	22.60
10	16QAM	25	0	20.40	20.52	20.71	20.58	20.56	21.60
10	16QAM	25	12	20.40	20.47	20.65	20.49	20.49	21.60
10	16QAM	25	25	20.63	20.68	20.83	20.63	20.70	21.60
10	16QAM	50	0	20.42	20.51	20.76	20.60	20.57	21.60
10	64QAM	1	0	20.45	20.64	20.71	20.69	20.69	21.60
10	64QAM	1	25	20.55	20.65	20.81	20.79	20.67	21.60
10	64QAM	1	49	20.33	20.48	20.62	20.59	20.59	21.60
10	64QAM	25	0	19.39	19.59	19.62	19.52	19.52	20.60
10	64QAM	25	12	19.55	19.54	19.76	19.64	19.72	20.60
10	64QAM	25	25	19.52	19.59	19.69	19.71	19.63	20.60
10	64QAM	50	0	19.49	19.57	19.69	19.69	19.67	20.60



10	256QAM	1	0	17.46	17.44	17.76	17.57	17.64	18.60
10	256QAM	1	25	17.37	17.50	17.63	17.62	17.59	18.60
10	256QAM	1	49	17.37	17.55	17.61	17.56	17.49	18.60
10	256QAM	25	0	17.60	17.64	17.80	17.75	17.76	18.60
10	256QAM	25	12	17.57	17.61	17.80	17.67	17.75	18.60
10	256QAM	25	25	17.59	17.50	17.67	17.60	17.63	18.60
10	256QAM	50	0	17.44	17.42	17.72	17.60	17.69	18.60
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.63	22.71	22.78	22.76	22.73	23.60
5	QPSK	1	12	22.33	22.53	22.62	22.64	22.59	23.60
5	QPSK	1	24	22.37	22.56	22.75	22.62	22.72	23.60
5	QPSK	12	0	21.79	21.88	21.91	21.84	21.85	22.60
5	QPSK	12	7	21.49	21.67	21.82	21.77	21.80	22.60
5	QPSK	12	13	21.41	21.57	21.74	21.54	21.62	22.60
5	QPSK	25	0	21.50	21.74	21.88	21.59	21.75	22.60
5	16QAM	1	0	21.42	21.49	21.57	21.58	21.60	22.60
5	16QAM	1	12	21.57	21.70	21.81	21.68	21.74	22.60
5	16QAM	1	24	21.44	21.54	21.70	21.66	21.65	22.60
5	16QAM	12	0	20.38	20.50	20.66	20.65	20.57	21.60
5	16QAM	12	7	20.35	20.45	20.56	20.54	20.58	21.60
5	16QAM	12	13	20.61	20.62	20.76	20.68	20.69	21.60
5	16QAM	25	0	20.43	20.58	20.69	20.60	20.59	21.60
5	64QAM	1	0	20.45	20.70	20.80	20.68	20.67	21.60
5	64QAM	1	12	20.59	20.64	20.74	20.80	20.67	21.60
5	64QAM	1	24	20.37	20.45	20.67	20.58	20.55	21.60
5	64QAM	12	0	19.42	19.58	19.66	19.58	19.53	20.60
5	64QAM	12	7	19.68	19.60	19.81	19.61	19.75	20.60
5	64QAM	12	13	19.47	19.55	19.80	19.63	19.51	20.60
5	64QAM	25	0	19.54	19.53	19.80	19.60	19.75	20.60
5	256QAM	1	0	17.36	17.50	17.75	17.62	17.68	18.60
5	256QAM	1	12	17.43	17.59	17.63	17.50	17.52	18.60
5	256QAM	1	24	17.36	17.58	17.68	17.52	17.51	18.60
5	256QAM	12	0	17.62	17.60	17.77	17.81	17.71	18.60
5	256QAM	12	7	17.64	17.61	17.80	17.75	17.70	18.60
5	256QAM	12	13	17.47	17.52	17.74	17.67	17.55	18.60
5	256QAM	25	0	17.51	17.55	17.70	17.56	17.68	18.60

【LTE Band 41__FCC (2496~2690MHz)_Ant 0_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.73	22.84	22.90	22.88	22.87	24.00
20	QPSK	1	49	22.47	22.64	22.76	22.71	22.62	24.00
20	QPSK	1	99	22.51	22.62	22.78	22.75	22.74	24.00
20	QPSK	50	0	21.86	21.92	21.97	21.85	21.93	23.00
20	QPSK	50	24	21.61	21.70	21.88	21.80	21.82	23.00
20	QPSK	50	50	21.49	21.59	21.76	21.60	21.64	23.00
20	QPSK	100	0	21.60	21.75	21.89	21.73	21.79	23.00
20	16QAM	1	0	21.52	21.63	21.72	21.66	21.67	23.00
20	16QAM	1	49	21.59	21.74	21.86	21.71	21.79	23.00
20	16QAM	1	99	21.47	21.61	21.77	21.68	21.70	23.00
20	16QAM	50	0	20.46	20.61	20.75	20.70	20.69	22.00
20	16QAM	50	24	20.47	20.57	20.68	20.62	20.62	22.00
20	16QAM	50	50	20.72	20.70	20.90	20.74	20.73	22.00
20	16QAM	100	0	20.51	20.61	20.78	20.68	20.64	22.00
20	64QAM	1	0	20.58	20.75	20.85	20.79	20.81	22.00
20	64QAM	1	49	20.63	20.73	20.86	20.83	20.75	22.00
20	64QAM	1	99	20.47	20.59	20.71	20.67	20.60	22.00
20	64QAM	50	0	19.46	19.62	19.69	19.63	19.62	21.00
20	64QAM	50	24	19.69	19.68	19.86	19.75	19.80	21.00
20	64QAM	50	50	19.57	19.66	19.82	19.78	19.65	21.00
20	64QAM	100	0	19.58	19.67	19.83	19.74	19.76	21.00
20	256QAM	1	0	17.49	17.58	17.77	17.67	17.74	19.00
20	256QAM	1	49	17.49	17.63	17.69	17.65	17.65	19.00
20	256QAM	1	99	17.46	17.63	17.72	17.60	17.55	19.00
20	256QAM	50	0	17.69	17.70	17.88	17.84	17.79	19.00
20	256QAM	50	24	17.70	17.68	17.87	17.81	17.78	19.00
20	256QAM	50	50	17.60	17.59	17.79	17.72	17.65	19.00
20	256QAM	100	0	17.59	17.56	17.75	17.68	17.71	19.00



FCC SAR Test Report

Report No. : FA5N1310

Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.64	22.71	22.87	22.84	22.83	24.00
15	QPSK	1	37	22.34	22.55	22.69	22.62	22.55	24.00
15	QPSK	1	74	22.49	22.51	22.65	22.74	22.64	24.00
15	QPSK	36	0	21.79	21.86	21.88	21.78	21.83	23.00
15	QPSK	36	20	21.59	21.55	21.79	21.71	21.69	23.00
15	QPSK	36	39	21.41	21.53	21.68	21.46	21.49	23.00
15	QPSK	75	0	21.54	21.68	21.80	21.63	21.67	23.00
15	16QAM	1	0	21.42	21.58	21.71	21.62	21.56	23.00
15	16QAM	1	37	21.46	21.62	21.85	21.62	21.74	23.00
15	16QAM	1	74	21.38	21.57	21.65	21.54	21.67	23.00
15	16QAM	36	0	20.31	20.48	20.69	20.65	20.57	22.00
15	16QAM	36	20	20.45	20.50	20.54	20.57	20.57	22.00
15	16QAM	36	39	20.68	20.58	20.80	20.67	20.69	22.00
15	16QAM	75	0	20.48	20.59	20.68	20.61	20.62	22.00
15	64QAM	1	0	20.51	20.64	20.77	20.77	20.79	22.00
15	64QAM	1	37	20.49	20.62	20.72	20.81	20.62	22.00
15	64QAM	1	74	20.36	20.45	20.69	20.66	20.57	22.00
15	64QAM	36	0	19.31	19.53	19.63	19.52	19.52	21.00
15	64QAM	36	20	19.58	19.54	19.76	19.68	19.71	21.00
15	64QAM	36	39	19.50	19.63	19.73	19.69	19.55	21.00
15	64QAM	75	0	19.50	19.64	19.78	19.63	19.68	21.00
15	256QAM	1	0	17.43	17.53	17.76	17.56	17.64	19.00
15	256QAM	1	37	17.37	17.49	17.61	17.51	17.57	19.00
15	256QAM	1	74	17.42	17.52	17.65	17.54	17.44	19.00
15	256QAM	36	0	17.54	17.62	17.81	17.76	17.76	19.00
15	256QAM	36	20	17.58	17.53	17.76	17.77	17.71	19.00
15	256QAM	36	39	17.47	17.44	17.64	17.67	17.52	19.00
15	256QAM	75	0	17.48	17.54	17.73	17.63	17.65	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.68	22.70	22.79	22.77	22.78	24.00
10	QPSK	1	25	22.43	22.53	22.73	22.64	22.48	24.00
10	QPSK	1	49	22.43	22.59	22.71	22.67	22.65	24.00
10	QPSK	25	0	21.75	21.90	21.95	21.78	21.82	23.00
10	QPSK	25	12	21.51	21.59	21.82	21.72	21.70	23.00
10	QPSK	25	25	21.47	21.44	21.69	21.51	21.56	23.00
10	QPSK	50	0	21.46	21.64	21.88	21.66	21.64	23.00
10	16QAM	1	0	21.40	21.50	21.62	21.60	21.53	23.00
10	16QAM	1	25	21.51	21.65	21.75	21.57	21.67	23.00
10	16QAM	1	49	21.35	21.57	21.66	21.60	21.66	23.00
10	16QAM	25	0	20.40	20.52	20.71	20.58	20.56	22.00
10	16QAM	25	12	20.40	20.47	20.65	20.49	20.49	22.00
10	16QAM	25	25	20.63	20.68	20.83	20.63	20.70	22.00
10	16QAM	50	0	20.42	20.51	20.76	20.60	20.57	22.00
10	64QAM	1	0	20.45	20.64	20.71	20.69	20.69	22.00
10	64QAM	1	25	20.55	20.65	20.81	20.79	20.67	22.00
10	64QAM	1	49	20.33	20.48	20.62	20.59	20.59	22.00
10	64QAM	25	0	19.39	19.59	19.62	19.52	19.52	21.00
10	64QAM	25	12	19.55	19.54	19.76	19.64	19.72	21.00
10	64QAM	25	25	19.52	19.59	19.69	19.71	19.63	21.00
10	64QAM	50	0	19.49	19.57	19.69	19.69	19.67	21.00
10	256QAM	1	0	17.46	17.44	17.76	17.57	17.64	19.00
10	256QAM	1	25	17.37	17.50	17.63	17.62	17.59	19.00
10	256QAM	1	49	17.37	17.55	17.61	17.56	17.49	19.00
10	256QAM	25	0	17.60	17.64	17.80	17.75	17.76	19.00
10	256QAM	25	12	17.57	17.61	17.80	17.67	17.75	19.00
10	256QAM	25	25	17.59	17.50	17.67	17.60	17.63	19.00
10	256QAM	50	0	17.44	17.42	17.72	17.60	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.63	22.71	22.78	22.76	22.73	24.00
5	QPSK	1	12	22.33	22.53	22.62	22.64	22.59	24.00
5	QPSK	1	24	22.37	22.56	22.75	22.62	22.72	24.00
5	QPSK	12	0	21.79	21.88	21.91	21.84	21.85	23.00
5	QPSK	12	7	21.49	21.67	21.82	21.77	21.80	23.00
5	QPSK	12	13	21.41	21.57	21.74	21.54	21.62	23.00
5	QPSK	25	0	21.50	21.74	21.88	21.59	21.75	23.00
5	16QAM	1	0	21.42	21.49	21.57	21.58	21.60	23.00
5	16QAM	1	12	21.57	21.70	21.81	21.68	21.74	23.00
5	16QAM	1	24	21.44	21.54	21.70	21.66	21.65	23.00
5	16QAM	12	0	20.38	20.50	20.66	20.65	20.57	22.00
5	16QAM	12	7	20.35	20.45	20.56	20.54	20.58	22.00
5	16QAM	12	13	20.61	20.62	20.76	20.68	20.69	22.00



5	16QAM	25	0	20.43	20.58	20.69	20.60	20.59	22.00
5	64QAM	1	0	20.45	20.70	20.80	20.68	20.67	22.00
5	64QAM	1	12	20.59	20.64	20.74	20.80	20.67	22.00
5	64QAM	1	24	20.37	20.45	20.67	20.58	20.55	22.00
5	64QAM	12	0	19.42	19.58	19.66	19.58	19.53	21.00
5	64QAM	12	7	19.68	19.60	19.81	19.61	19.75	21.00
5	64QAM	12	13	19.47	19.55	19.80	19.63	19.51	21.00
5	64QAM	25	0	19.54	19.53	19.80	19.60	19.75	21.00
5	256QAM	1	0	17.36	17.50	17.75	17.62	17.68	19.00
5	256QAM	1	12	17.43	17.59	17.63	17.50	17.52	19.00
5	256QAM	1	24	17.36	17.58	17.68	17.52	17.51	19.00
5	256QAM	12	0	17.62	17.60	17.77	17.81	17.71	19.00
5	256QAM	12	7	17.64	17.61	17.80	17.75	17.70	19.00
5	256QAM	12	13	17.47	17.52	17.74	17.67	17.55	19.00
5	256QAM	25	0	17.51	17.55	17.70	17.56	17.68	19.00

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 0_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.71	25.75	25.85	25.79	25.81	27.00
20	QPSK	1	49	25.31	25.34	25.56	25.38	25.47	27.00
20	QPSK	1	99	25.36	25.31	25.54	25.46	25.41	27.00
20	QPSK	50	0	24.91	24.88	24.94	24.82	24.83	26.00
20	QPSK	50	24	24.68	24.66	24.85	24.69	24.69	26.00
20	QPSK	50	50	24.55	24.52	24.72	24.58	24.55	26.00
20	QPSK	100	0	24.69	24.76	24.90	24.77	24.85	26.00
20	16QAM	1	0	24.50	24.54	24.72	24.65	24.63	26.00
20	16QAM	1	49	24.39	24.42	24.63	24.49	24.45	26.00
20	16QAM	1	99	24.42	24.51	24.65	24.53	24.50	26.00
20	16QAM	50	0	23.40	23.43	23.63	23.46	23.57	25.00
20	16QAM	50	24	23.62	23.61	23.79	23.60	23.70	25.00
20	16QAM	50	50	23.55	23.64	23.81	23.65	23.67	25.00
20	16QAM	100	0	23.67	23.65	23.86	23.74	23.80	25.00
20	64QAM	1	0	23.64	23.64	23.82	23.68	23.77	25.00
20	64QAM	1	49	23.50	23.57	23.69	23.53	23.57	25.00
20	64QAM	1	99	23.67	23.69	23.81	23.73	23.70	25.00
20	64QAM	50	0	22.60	22.67	22.83	22.67	22.73	24.00
20	64QAM	50	24	22.70	22.63	22.84	22.66	22.71	24.00
20	64QAM	50	50	22.50	22.61	22.71	22.58	22.56	24.00
20	64QAM	100	0	22.48	22.51	22.73	22.63	22.64	24.00
20	256QAM	1	0	20.58	20.60	20.82	20.76	20.74	22.00
20	256QAM	1	49	20.67	20.71	20.87	20.72	20.83	22.00
20	256QAM	1	99	20.57	20.49	20.70	20.55	20.56	22.00
20	256QAM	50	0	20.65	20.64	20.82	20.64	20.75	22.00
20	256QAM	50	24	20.60	20.71	20.86	20.66	20.73	22.00
20	256QAM	50	50	20.45	20.54	20.65	20.57	20.51	22.00
20	256QAM	100	0	20.52	20.61	20.74	20.57	20.58	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.59	25.63	25.70	25.67	25.76	27.00
15	QPSK	1	37	25.18	25.20	25.55	25.36	25.34	27.00
15	QPSK	1	74	25.28	25.21	25.41	25.31	25.30	27.00
15	QPSK	36	0	24.89	24.84	24.79	24.80	24.72	26.00
15	QPSK	36	20	24.57	24.55	24.83	24.57	24.56	26.00
15	QPSK	36	39	24.49	24.49	24.69	24.56	24.45	26.00
15	QPSK	75	0	24.63	24.66	24.78	24.64	24.76	26.00
15	16QAM	1	0	24.39	24.43	24.63	24.62	24.58	26.00
15	16QAM	1	37	24.25	24.40	24.58	24.35	24.35	26.00
15	16QAM	1	74	24.40	24.42	24.61	24.48	24.35	26.00
15	16QAM	36	0	23.35	23.39	23.58	23.43	23.49	25.00
15	16QAM	36	20	23.50	23.56	23.72	23.53	23.65	25.00
15	16QAM	36	39	23.54	23.51	23.79	23.54	23.65	25.00
15	16QAM	75	0	23.57	23.55	23.73	23.71	23.68	25.00
15	64QAM	1	0	23.57	23.62	23.71	23.54	23.72	25.00
15	64QAM	1	37	23.36	23.54	23.58	23.45	23.45	25.00
15	64QAM	1	74	23.65	23.61	23.70	23.59	23.58	25.00
15	64QAM	36	0	22.55	22.53	22.80	22.53	22.60	24.00
15	64QAM	36	20	22.64	22.58	22.76	22.56	22.59	24.00
15	64QAM	36	39	22.36	22.57	22.63	22.43	22.42	24.00



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15	64QAM	75	0	22.39	22.45	22.65	22.49	22.51	24.00
15	256QAM	1	0	20.47	20.51	20.79	20.63	20.61	22.00
15	256QAM	1	37	20.66	20.63	20.82	20.59	20.71	22.00
15	256QAM	1	74	20.51	20.34	20.56	20.52	20.49	22.00
15	256QAM	36	0	20.62	20.60	20.71	20.60	20.73	22.00
15	256QAM	36	20	20.56	20.69	20.76	20.61	20.69	22.00
15	256QAM	36	39	20.38	20.39	20.55	20.48	20.44	22.00
15	256QAM	75	0	20.39	20.57	20.68	20.53	20.51	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.69	25.65	25.76	25.72	25.68	27.00
10	QPSK	1	25	25.16	25.26	25.52	25.32	25.39	27.00
10	QPSK	1	49	25.27	25.28	25.44	25.32	25.39	27.00
10	QPSK	25	0	24.79	24.80	24.85	24.67	24.70	26.00
10	QPSK	25	12	24.55	24.58	24.79	24.61	24.55	26.00
10	QPSK	25	25	24.47	24.42	24.67	24.54	24.52	26.00
10	QPSK	50	0	24.56	24.74	24.79	24.69	24.71	26.00
10	16QAM	1	0	24.36	24.39	24.61	24.50	24.48	26.00
10	16QAM	1	25	24.24	24.33	24.58	24.40	24.40	26.00
10	16QAM	1	49	24.41	24.46	24.62	24.48	24.48	26.00
10	16QAM	25	0	23.29	23.41	23.52	23.34	23.56	25.00
10	16QAM	25	12	23.57	23.56	23.73	23.58	23.57	25.00
10	16QAM	25	25	23.49	23.57	23.79	23.63	23.58	25.00
10	16QAM	50	0	23.55	23.51	23.84	23.70	23.74	25.00
10	64QAM	1	0	23.59	23.51	23.70	23.63	23.71	25.00
10	64QAM	1	25	23.42	23.48	23.64	23.39	23.47	25.00
10	64QAM	1	49	23.62	23.59	23.76	23.70	23.68	25.00
10	64QAM	25	0	22.50	22.62	22.71	22.56	22.71	24.00
10	64QAM	25	12	22.65	22.55	22.82	22.53	22.70	24.00
10	64QAM	25	25	22.46	22.55	22.65	22.54	22.51	24.00
10	64QAM	50	0	22.37	22.44	22.58	22.54	22.49	24.00
10	256QAM	1	0	20.49	20.56	20.75	20.70	20.68	22.00
10	256QAM	1	25	20.58	20.56	20.80	20.60	20.79	22.00
10	256QAM	1	49	20.42	20.44	20.62	20.49	20.41	22.00
10	256QAM	25	0	20.52	20.51	20.68	20.50	20.73	22.00
10	256QAM	25	12	20.48	20.59	20.84	20.58	20.71	22.00
10	256QAM	25	25	20.32	20.41	20.60	20.48	20.37	22.00
10	256QAM	50	0	20.41	20.49	20.71	20.43	20.50	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	25.68	25.62	25.78	25.76	25.69	27.00
5	QPSK	1	12	25.18	25.25	25.54	25.33	25.39	27.00
5	QPSK	1	24	25.30	25.25	25.50	25.39	25.29	27.00
5	QPSK	12	0	24.83	24.76	24.89	24.69	24.79	26.00
5	QPSK	12	7	24.56	24.64	24.83	24.55	24.54	26.00
5	QPSK	12	13	24.50	24.46	24.62	24.44	24.54	26.00
5	QPSK	25	0	24.55	24.70	24.82	24.72	24.82	26.00
5	16QAM	1	0	24.40	24.50	24.70	24.60	24.52	26.00
5	16QAM	1	12	24.36	24.37	24.55	24.41	24.43	26.00
5	16QAM	1	24	24.28	24.37	24.58	24.47	24.48	26.00
5	16QAM	12	0	23.32	23.42	23.62	23.36	23.49	25.00
5	16QAM	12	7	23.54	23.51	23.65	23.53	23.63	25.00
5	16QAM	12	13	23.48	23.56	23.80	23.64	23.58	25.00
5	16QAM	25	0	23.61	23.53	23.74	23.70	23.70	25.00
5	64QAM	1	0	23.53	23.54	23.78	23.55	23.66	25.00
5	64QAM	1	12	23.46	23.47	23.61	23.47	23.46	25.00
5	64QAM	1	24	23.55	23.61	23.78	23.71	23.65	25.00
5	64QAM	12	0	22.57	22.61	22.76	22.63	22.68	24.00
5	64QAM	12	7	22.63	22.54	22.76	22.65	22.66	24.00
5	64QAM	12	13	22.41	22.51	22.69	22.46	22.49	24.00
5	64QAM	25	0	22.47	22.40	22.71	22.53	22.50	24.00
5	256QAM	1	0	20.49	20.57	20.77	20.63	20.71	22.00
5	256QAM	1	12	20.55	20.67	20.76	20.65	20.81	22.00
5	256QAM	1	24	20.47	20.39	20.58	20.45	20.45	22.00
5	256QAM	12	0	20.56	20.60	20.79	20.62	20.61	22.00
5	256QAM	12	7	20.48	20.65	20.76	20.53	20.70	22.00
5	256QAM	12	13	20.37	20.47	20.52	20.43	20.48	22.00
5	256QAM	25	0	20.46	20.59	20.70	20.55	20.46	22.00



【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 0_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	25.50
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.61	24.63	24.69	24.65	24.58	25.50
20	QPSK	1	49	24.27	24.38	24.48	24.41	24.36	25.50
20	QPSK	1	99	24.30	24.30	24.44	24.27	24.30	25.50
20	QPSK	50	0	24.58	24.62	24.63	24.55	24.57	25.50
20	QPSK	50	24	24.43	24.41	24.52	24.42	24.37	25.50
20	QPSK	50	50	24.41	24.45	24.56	24.42	24.31	25.50
20	QPSK	100	0	24.22	24.29	24.40	24.28	24.25	25.50
20	16QAM	1	0	24.30	24.27	24.40	24.34	24.15	25.50
20	16QAM	1	49	24.35	24.30	24.50	24.36	24.28	25.50
20	16QAM	1	99	24.32	24.27	24.45	24.40	24.20	25.50
20	16QAM	50	0	23.40	23.43	23.63	23.46	23.57	25.00
20	16QAM	50	24	23.62	23.61	23.79	23.60	23.70	25.00
20	16QAM	50	50	23.55	23.64	23.81	23.65	23.67	25.00
20	16QAM	100	0	23.67	23.65	23.86	23.74	23.80	25.00
20	64QAM	1	0	23.64	23.64	23.82	23.68	23.77	25.00
20	64QAM	1	49	23.50	23.57	23.69	23.53	23.57	25.00
20	64QAM	1	99	23.67	23.69	23.81	23.73	23.70	25.00
20	64QAM	50	0	22.60	22.67	22.83	22.67	22.73	24.00
20	64QAM	50	24	22.70	22.63	22.84	22.66	22.71	24.00
20	64QAM	50	50	22.50	22.61	22.71	22.58	22.56	24.00
20	64QAM	100	0	22.48	22.51	22.73	22.63	22.64	24.00
20	256QAM	1	0	20.58	20.60	20.82	20.76	20.74	22.00
20	256QAM	1	49	20.67	20.71	20.87	20.72	20.83	22.00
20	256QAM	1	99	20.57	20.49	20.70	20.55	20.56	22.00
20	256QAM	50	0	20.65	20.64	20.82	20.64	20.75	22.00
20	256QAM	50	24	20.60	20.71	20.86	20.66	20.73	22.00
20	256QAM	50	50	20.45	20.54	20.65	20.57	20.51	22.00
20	256QAM	100	0	20.52	20.61	20.74	20.57	20.58	22.00
Channel				39725	40173	40620	41068	41515	25.50
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.50	24.60	24.62	24.51	24.49	25.50
15	QPSK	1	37	24.24	24.32	24.39	24.31	24.35	25.50
15	QPSK	1	74	24.17	24.26	24.36	24.24	24.26	25.50
15	QPSK	36	0	24.46	24.56	24.54	24.45	24.43	25.50
15	QPSK	36	20	24.41	24.30	24.39	24.32	24.26	25.50
15	QPSK	36	39	24.32	24.37	24.41	24.37	24.30	25.50
15	QPSK	75	0	24.18	24.16	24.26	24.18	24.12	25.50
15	16QAM	1	0	24.16	24.24	24.27	24.24	24.11	25.50
15	16QAM	1	37	24.23	24.24	24.46	24.28	24.13	25.50
15	16QAM	1	74	24.25	24.21	24.34	24.37	24.14	25.50
15	16QAM	36	0	23.35	23.39	23.58	23.43	23.49	25.00
15	16QAM	36	20	23.50	23.56	23.72	23.53	23.65	25.00
15	16QAM	36	39	23.54	23.51	23.79	23.54	23.65	25.00
15	16QAM	75	0	23.57	23.55	23.73	23.71	23.68	25.00
15	64QAM	1	0	23.57	23.62	23.71	23.54	23.72	25.00
15	64QAM	1	37	23.36	23.54	23.58	23.45	23.45	25.00
15	64QAM	1	74	23.65	23.61	23.70	23.59	23.58	25.00
15	64QAM	36	0	22.55	22.53	22.80	22.53	22.60	24.00
15	64QAM	36	20	22.64	22.58	22.76	22.56	22.59	24.00
15	64QAM	36	39	22.36	22.57	22.63	22.43	22.42	24.00
15	64QAM	75	0	22.39	22.45	22.65	22.49	22.51	24.00
15	256QAM	1	0	20.47	20.51	20.79	20.63	20.61	22.00
15	256QAM	1	37	20.66	20.63	20.82	20.59	20.71	22.00
15	256QAM	1	74	20.51	20.34	20.56	20.52	20.49	22.00
15	256QAM	36	0	20.62	20.60	20.71	20.60	20.73	22.00
15	256QAM	36	20	20.56	20.69	20.76	20.61	20.69	22.00
15	256QAM	36	39	20.38	20.39	20.55	20.48	20.44	22.00
15	256QAM	75	0	20.39	20.57	20.68	20.53	20.51	22.00
Channel				39700	40160	40620	41080	41540	25.50
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.58	24.54	24.60	24.50	24.45	25.50
10	QPSK	1	25	24.26	24.31	24.40	24.26	24.33	25.50
10	QPSK	1	49	24.19	24.15	24.42	24.22	24.23	25.50
10	QPSK	25	0	24.55	24.59	24.61	24.49	24.43	25.50
10	QPSK	25	12	24.31	24.30	24.50	24.27	24.24	25.50
10	QPSK	25	25	24.35	24.41	24.44	24.28	24.16	25.50
10	QPSK	50	0	24.20	24.26	24.25	24.22	24.20	25.50
10	16QAM	1	0	24.28	24.18	24.33	24.26	24.04	25.50
10	16QAM	1	25	24.26	24.22	24.42	24.29	24.23	25.50



10	16QAM	1	49	24.27	24.23	24.35	24.28	24.05	25.50
10	16QAM	25	0	23.29	23.41	23.52	23.34	23.56	25.00
10	16QAM	25	12	23.57	23.56	23.73	23.58	23.57	25.00
10	16QAM	25	25	23.49	23.57	23.79	23.63	23.58	25.00
10	16QAM	50	0	23.55	23.51	23.84	23.70	23.74	25.00
10	64QAM	1	0	23.59	23.51	23.70	23.63	23.71	25.00
10	64QAM	1	25	23.42	23.48	23.64	23.39	23.47	25.00
10	64QAM	1	49	23.62	23.59	23.76	23.70	23.68	25.00
10	64QAM	25	0	22.50	22.62	22.71	22.56	22.71	24.00
10	64QAM	25	12	22.65	22.55	22.82	22.53	22.70	24.00
10	64QAM	25	25	22.46	22.55	22.65	22.54	22.51	24.00
10	64QAM	50	0	22.37	22.44	22.58	22.54	22.49	24.00
10	256QAM	1	0	20.49	20.56	20.75	20.70	20.68	22.00
10	256QAM	1	25	20.58	20.56	20.80	20.60	20.79	22.00
10	256QAM	1	49	20.42	20.44	20.62	20.49	20.41	22.00
10	256QAM	25	0	20.52	20.51	20.68	20.50	20.73	22.00
10	256QAM	25	12	20.48	20.59	20.84	20.58	20.71	22.00
10	256QAM	25	25	20.32	20.41	20.60	20.48	20.37	22.00
10	256QAM	50	0	20.41	20.49	20.71	20.43	20.50	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	24.49	24.50	24.55	24.63	24.44	25.50
5	QPSK	1	12	24.18	24.32	24.35	24.26	24.25	25.50
5	QPSK	1	24	24.27	24.21	24.36	24.15	24.28	25.50
5	QPSK	12	0	24.56	24.60	24.58	24.42	24.54	25.50
5	QPSK	12	7	24.32	24.30	24.50	24.41	24.22	25.50
5	QPSK	12	13	24.27	24.34	24.49	24.41	24.17	25.50
5	QPSK	25	0	24.07	24.27	24.36	24.21	24.19	25.50
5	16QAM	1	0	24.25	24.16	24.36	24.23	24.14	25.50
5	16QAM	1	12	24.21	24.22	24.47	24.30	24.21	25.50
5	16QAM	1	24	24.24	24.20	24.43	24.28	24.17	25.50
5	16QAM	12	0	23.32	23.42	23.62	23.36	23.49	25.00
5	16QAM	12	7	23.54	23.51	23.65	23.53	23.63	25.00
5	16QAM	12	13	23.48	23.56	23.80	23.64	23.58	25.00
5	16QAM	25	0	23.61	23.53	23.74	23.70	23.70	25.00
5	64QAM	1	0	23.53	23.54	23.78	23.55	23.66	25.00
5	64QAM	1	12	23.46	23.47	23.61	23.47	23.46	25.00
5	64QAM	1	24	23.55	23.61	23.78	23.71	23.65	25.00
5	64QAM	12	0	22.57	22.61	22.76	22.63	22.68	24.00
5	64QAM	12	7	22.63	22.54	22.76	22.65	22.66	24.00
5	64QAM	12	13	22.41	22.51	22.69	22.46	22.49	24.00
5	64QAM	25	0	22.47	22.40	22.71	22.53	22.50	24.00
5	256QAM	1	0	20.49	20.57	20.77	20.63	20.71	22.00
5	256QAM	1	12	20.55	20.67	20.76	20.65	20.81	22.00
5	256QAM	1	24	20.47	20.39	20.58	20.45	20.45	22.00
5	256QAM	12	0	20.56	20.60	20.79	20.62	20.61	22.00
5	256QAM	12	7	20.48	20.65	20.76	20.53	20.70	22.00
5	256QAM	12	13	20.37	20.47	20.52	20.43	20.48	22.00
5	256QAM	25	0	20.46	20.59	20.70	20.55	20.46	22.00

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 0_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.71	25.75	25.85	25.79	25.81	27.00
20	QPSK	1	49	25.31	25.34	25.56	25.38	25.47	27.00
20	QPSK	1	99	25.36	25.31	25.54	25.46	25.41	27.00
20	QPSK	50	0	24.91	24.88	24.94	24.82	24.83	26.00
20	QPSK	50	24	24.68	24.66	24.85	24.69	24.69	26.00
20	QPSK	50	50	24.55	24.52	24.72	24.58	24.55	26.00
20	QPSK	100	0	24.69	24.76	24.90	24.77	24.85	26.00
20	16QAM	1	0	24.50	24.54	24.72	24.65	24.63	26.00
20	16QAM	1	49	24.39	24.42	24.63	24.49	24.45	26.00
20	16QAM	1	99	24.42	24.51	24.65	24.53	24.50	26.00
20	16QAM	50	0	23.40	23.43	23.63	23.46	23.57	25.00
20	16QAM	50	24	23.62	23.61	23.79	23.60	23.70	25.00
20	16QAM	50	50	23.55	23.64	23.81	23.65	23.67	25.00
20	16QAM	100	0	23.67	23.65	23.86	23.74	23.80	25.00
20	64QAM	1	0	23.64	23.64	23.82	23.68	23.77	25.00
20	64QAM	1	49	23.50	23.57	23.69	23.53	23.57	25.00



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20	64QAM	1	99	23.67	23.69	23.81	23.73	23.70	25.00
20	64QAM	50	0	22.60	22.67	22.83	22.67	22.73	24.00
20	64QAM	50	24	22.70	22.63	22.84	22.66	22.71	24.00
20	64QAM	50	50	22.50	22.61	22.71	22.58	22.56	24.00
20	64QAM	100	0	22.48	22.51	22.73	22.63	22.64	24.00
20	256QAM	1	0	20.58	20.60	20.82	20.76	20.74	22.00
20	256QAM	1	49	20.67	20.71	20.87	20.72	20.83	22.00
20	256QAM	1	99	20.57	20.49	20.70	20.55	20.56	22.00
20	256QAM	50	0	20.65	20.64	20.82	20.64	20.75	22.00
20	256QAM	50	24	20.60	20.71	20.86	20.66	20.73	22.00
20	256QAM	50	50	20.45	20.54	20.65	20.57	20.51	22.00
20	256QAM	100	0	20.52	20.61	20.74	20.57	20.58	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.59	25.63	25.70	25.67	25.76	27.00
15	QPSK	1	37	25.18	25.20	25.55	25.36	25.34	27.00
15	QPSK	1	74	25.28	25.21	25.41	25.31	25.30	27.00
15	QPSK	36	0	24.89	24.84	24.79	24.80	24.72	26.00
15	QPSK	36	20	24.57	24.55	24.83	24.57	24.56	26.00
15	QPSK	36	39	24.49	24.49	24.69	24.56	24.45	26.00
15	QPSK	75	0	24.63	24.66	24.78	24.64	24.76	26.00
15	16QAM	1	0	24.39	24.43	24.63	24.62	24.58	26.00
15	16QAM	1	37	24.25	24.40	24.58	24.35	24.35	26.00
15	16QAM	1	74	24.40	24.42	24.61	24.48	24.35	26.00
15	16QAM	36	0	23.35	23.39	23.58	23.43	23.49	25.00
15	16QAM	36	20	23.50	23.56	23.72	23.53	23.65	25.00
15	16QAM	36	39	23.54	23.51	23.79	23.54	23.65	25.00
15	16QAM	75	0	23.57	23.55	23.73	23.71	23.68	25.00
15	64QAM	1	0	23.57	23.62	23.71	23.54	23.72	25.00
15	64QAM	1	37	23.36	23.54	23.58	23.45	23.45	25.00
15	64QAM	1	74	23.65	23.61	23.70	23.59	23.58	25.00
15	64QAM	36	0	22.55	22.53	22.80	22.53	22.60	24.00
15	64QAM	36	20	22.64	22.58	22.76	22.56	22.59	24.00
15	64QAM	36	39	22.36	22.57	22.63	22.43	22.42	24.00
15	64QAM	75	0	22.39	22.45	22.65	22.49	22.51	24.00
15	256QAM	1	0	20.47	20.51	20.79	20.63	20.61	22.00
15	256QAM	1	37	20.66	20.63	20.82	20.59	20.71	22.00
15	256QAM	1	74	20.51	20.34	20.56	20.52	20.49	22.00
15	256QAM	36	0	20.62	20.60	20.71	20.60	20.73	22.00
15	256QAM	36	20	20.56	20.69	20.76	20.61	20.69	22.00
15	256QAM	36	39	20.38	20.39	20.55	20.48	20.44	22.00
15	256QAM	75	0	20.39	20.57	20.68	20.53	20.51	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.69	25.65	25.76	25.72	25.68	27.00
10	QPSK	1	25	25.16	25.26	25.52	25.32	25.39	27.00
10	QPSK	1	49	25.27	25.28	25.44	25.32	25.39	27.00
10	QPSK	25	0	24.79	24.80	24.85	24.67	24.70	26.00
10	QPSK	25	12	24.55	24.58	24.79	24.61	24.55	26.00
10	QPSK	25	25	24.47	24.42	24.67	24.54	24.52	26.00
10	QPSK	50	0	24.56	24.74	24.79	24.69	24.71	26.00
10	16QAM	1	0	24.36	24.39	24.61	24.50	24.48	26.00
10	16QAM	1	25	24.24	24.33	24.58	24.40	24.40	26.00
10	16QAM	1	49	24.41	24.46	24.62	24.48	24.48	26.00
10	16QAM	25	0	23.29	23.41	23.52	23.34	23.56	25.00
10	16QAM	25	12	23.57	23.56	23.73	23.58	23.57	25.00
10	16QAM	25	25	23.49	23.57	23.79	23.63	23.58	25.00
10	16QAM	50	0	23.55	23.51	23.84	23.70	23.74	25.00
10	64QAM	1	0	23.59	23.51	23.70	23.63	23.71	25.00
10	64QAM	1	25	23.42	23.48	23.64	23.39	23.47	25.00
10	64QAM	1	49	23.62	23.59	23.76	23.70	23.68	25.00
10	64QAM	25	0	22.50	22.62	22.71	22.56	22.71	24.00
10	64QAM	25	12	22.65	22.55	22.82	22.53	22.70	24.00
10	64QAM	25	25	22.46	22.55	22.65	22.54	22.51	24.00
10	64QAM	50	0	22.37	22.44	22.58	22.54	22.49	24.00
10	256QAM	1	0	20.49	20.56	20.75	20.70	20.68	22.00
10	256QAM	1	25	20.58	20.56	20.80	20.60	20.79	22.00
10	256QAM	1	49	20.42	20.44	20.62	20.49	20.41	22.00
10	256QAM	25	0	20.52	20.51	20.68	20.50	20.73	22.00
10	256QAM	25	12	20.48	20.59	20.84	20.58	20.71	22.00
10	256QAM	25	25	20.32	20.41	20.60	20.48	20.37	22.00
10	256QAM	50	0	20.41	20.49	20.71	20.43	20.50	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	25.68	25.62	25.78	25.76	25.69	27.00



5	QPSK	1	12	25.18	25.25	25.54	25.33	25.39	27.00
5	QPSK	1	24	25.30	25.25	25.50	25.39	25.29	27.00
5	QPSK	12	0	24.83	24.76	24.89	24.69	24.79	26.00
5	QPSK	12	7	24.56	24.64	24.83	24.55	24.54	26.00
5	QPSK	12	13	24.50	24.46	24.62	24.44	24.54	26.00
5	QPSK	25	0	24.55	24.70	24.82	24.72	24.82	26.00
5	16QAM	1	0	24.40	24.50	24.70	24.60	24.52	26.00
5	16QAM	1	12	24.36	24.37	24.55	24.41	24.43	26.00
5	16QAM	1	24	24.28	24.37	24.58	24.47	24.48	26.00
5	16QAM	12	0	23.32	23.42	23.62	23.36	23.49	25.00
5	16QAM	12	7	23.54	23.51	23.65	23.53	23.63	25.00
5	16QAM	12	13	23.48	23.56	23.80	23.64	23.58	25.00
5	16QAM	25	0	23.61	23.53	23.74	23.70	23.70	25.00
5	64QAM	1	0	23.53	23.54	23.78	23.55	23.66	25.00
5	64QAM	1	12	23.46	23.47	23.61	23.47	23.46	25.00
5	64QAM	1	24	23.55	23.61	23.78	23.71	23.65	25.00
5	64QAM	12	0	22.57	22.61	22.76	22.63	22.68	24.00
5	64QAM	12	7	22.63	22.54	22.76	22.65	22.66	24.00
5	64QAM	12	13	22.41	22.51	22.69	22.46	22.49	24.00
5	64QAM	25	0	22.47	22.40	22.71	22.53	22.50	24.00
5	256QAM	1	0	20.49	20.57	20.77	20.63	20.71	22.00
5	256QAM	1	12	20.55	20.67	20.76	20.65	20.81	22.00
5	256QAM	1	24	20.47	20.39	20.58	20.45	20.45	22.00
5	256QAM	12	0	20.56	20.60	20.79	20.62	20.61	22.00
5	256QAM	12	7	20.48	20.65	20.76	20.53	20.70	22.00
5	256QAM	12	13	20.37	20.47	20.52	20.43	20.48	22.00
5	256QAM	25	0	20.46	20.59	20.70	20.55	20.46	22.00

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 0_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	17.80
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	16.78	16.75	16.80	16.73	16.72	17.80
20	QPSK	1	49	16.71	16.65	16.77	16.60	16.63	17.80
20	QPSK	1	99	16.69	16.61	16.74	16.68	16.60	17.80
20	QPSK	50	0	16.70	16.71	16.78	16.60	16.68	17.80
20	QPSK	50	24	16.68	16.66	16.75	16.59	16.69	17.80
20	QPSK	50	50	16.67	16.71	16.68	16.70	16.59	17.80
20	QPSK	100	0	16.74	16.64	16.69	16.67	16.61	17.80
20	16QAM	1	0	16.73	16.62	16.70	16.69	16.61	17.80
20	16QAM	1	49	16.69	16.72	16.67	16.62	16.68	17.80
20	16QAM	1	99	16.74	16.69	16.66	16.59	16.69	17.80
20	16QAM	50	0	16.75	16.68	16.70	16.65	16.65	17.80
20	16QAM	50	24	16.72	16.67	16.76	16.58	16.61	17.80
20	16QAM	50	50	16.71	16.68	16.68	16.64	16.57	17.80
20	16QAM	100	0	16.64	16.69	16.75	16.61	16.62	17.80
20	64QAM	1	0	16.75	16.72	16.75	16.60	16.64	17.80
20	64QAM	1	49	16.64	16.72	16.68	16.68	16.60	17.80
20	64QAM	1	99	16.73	16.61	16.75	16.67	16.58	17.80
20	64QAM	50	0	16.68	16.67	16.68	16.61	16.67	17.80
20	64QAM	50	24	16.65	16.63	16.66	16.62	16.61	17.80
20	64QAM	50	50	16.73	16.65	16.66	16.63	16.66	17.80
20	64QAM	100	0	16.67	16.70	16.67	16.66	16.58	17.80
20	256QAM	1	0	16.69	16.71	16.73	16.60	16.67	17.80
20	256QAM	1	49	16.66	16.66	16.71	16.60	16.69	17.80
20	256QAM	1	99	16.66	16.67	16.77	16.61	16.64	17.80
20	256QAM	50	0	16.74	16.66	16.76	16.60	16.64	17.80
20	256QAM	50	24	16.66	16.69	16.72	16.60	16.66	17.80
20	256QAM	50	50	16.75	16.62	16.75	16.63	16.67	17.80
20	256QAM	100	0	16.70	16.71	16.76	16.66	16.67	17.80
Channel				39725	40173	40620	41068	41515	17.80
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	16.74	16.69	16.76	16.64	16.60	17.80
15	QPSK	1	37	16.64	16.50	16.62	16.52	16.60	17.80
15	QPSK	1	74	16.68	16.51	16.61	16.64	16.59	17.80
15	QPSK	36	0	16.59	16.69	16.64	16.54	16.59	17.80
15	QPSK	36	20	16.66	16.55	16.74	16.46	16.56	17.80
15	QPSK	36	39	16.61	16.66	16.59	16.61	16.45	17.80
15	QPSK	75	0	16.60	16.49	16.68	16.62	16.52	17.80
15	16QAM	1	0	16.59	16.49	16.58	16.67	16.53	17.80



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15	16QAM	1	37	16.67	16.69	16.54	16.52	16.57	17.80
15	16QAM	1	74	16.71	16.57	16.57	16.52	16.68	17.80
15	16QAM	36	0	16.70	16.61	16.60	16.59	16.56	17.80
15	16QAM	36	20	16.71	16.59	16.68	16.49	16.46	17.80
15	16QAM	36	39	16.57	16.63	16.60	16.62	16.43	17.80
15	16QAM	75	0	16.59	16.65	16.71	16.51	16.58	17.80
15	64QAM	1	0	16.61	16.67	16.62	16.56	16.52	17.80
15	64QAM	1	37	16.57	16.61	16.62	16.66	16.49	17.80
15	64QAM	1	74	16.59	16.55	16.69	16.59	16.57	17.80
15	64QAM	36	0	16.66	16.55	16.56	16.56	16.65	17.80
15	64QAM	36	20	16.53	16.51	16.56	16.56	16.53	17.80
15	64QAM	36	39	16.61	16.53	16.56	16.51	16.52	17.80
15	64QAM	75	0	16.62	16.62	16.54	16.53	16.47	17.80
15	256QAM	1	0	16.61	16.62	16.69	16.47	16.57	17.80
15	256QAM	1	37	16.61	16.52	16.60	16.58	16.60	17.80
15	256QAM	1	74	16.54	16.63	16.72	16.51	16.60	17.80
15	256QAM	36	0	16.61	16.53	16.62	16.45	16.57	17.80
15	256QAM	36	20	16.64	16.66	16.66	16.53	16.53	17.80
15	256QAM	36	39	16.67	16.49	16.63	16.53	16.65	17.80
15	256QAM	75	0	16.64	16.70	16.63	16.63	16.61	17.80
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	16.66	16.65	16.77	16.69	16.67	17.80
10	QPSK	1	25	16.58	16.60	16.73	16.57	16.57	17.80
10	QPSK	1	49	16.55	16.57	16.61	16.65	16.53	17.80
10	QPSK	25	0	16.66	16.64	16.75	16.56	16.65	17.80
10	QPSK	25	12	16.64	16.63	16.69	16.48	16.59	17.80
10	QPSK	25	25	16.62	16.69	16.57	16.61	16.45	17.80
10	QPSK	50	0	16.62	16.53	16.61	16.65	16.48	17.80
10	16QAM	1	0	16.65	16.51	16.57	16.58	16.47	17.80
10	16QAM	1	25	16.56	16.70	16.61	16.56	16.53	17.80
10	16QAM	1	49	16.72	16.67	16.57	16.46	16.55	17.80
10	16QAM	25	0	16.67	16.63	16.56	16.51	16.61	17.80
10	16QAM	25	12	16.58	16.60	16.70	16.45	16.52	17.80
10	16QAM	25	25	16.62	16.66	16.53	16.56	16.54	17.80
10	16QAM	50	0	16.49	16.59	16.61	16.49	16.51	17.80
10	64QAM	1	0	16.71	16.65	16.62	16.45	16.60	17.80
10	64QAM	1	25	16.55	16.60	16.56	16.65	16.53	17.80
10	64QAM	1	49	16.70	16.50	16.66	16.60	16.51	17.80
10	64QAM	25	0	16.62	16.62	16.53	16.46	16.57	17.80
10	64QAM	25	12	16.55	16.61	16.63	16.56	16.48	17.80
10	64QAM	25	25	16.67	16.53	16.53	16.57	16.57	17.80
10	64QAM	50	0	16.58	16.69	16.63	16.55	16.45	17.80
10	256QAM	1	0	16.57	16.63	16.71	16.49	16.58	17.80
10	256QAM	1	25	16.63	16.62	16.67	16.46	16.62	17.80
10	256QAM	1	49	16.55	16.54	16.62	16.56	16.51	17.80
10	256QAM	25	0	16.72	16.60	16.68	16.56	16.57	17.80
10	256QAM	25	12	16.57	16.56	16.70	16.52	16.64	17.80
10	256QAM	25	25	16.64	16.51	16.62	16.60	16.55	17.80
10	256QAM	50	0	16.57	16.60	16.62	16.63	16.61	17.80
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	16.73	16.69	16.73	16.58	16.67	17.80
5	QPSK	1	12	16.69	16.59	16.64	16.58	16.60	17.80
5	QPSK	1	24	16.55	16.46	16.70	16.54	16.58	17.80
5	QPSK	12	0	16.61	16.60	16.71	16.47	16.59	17.80
5	QPSK	12	7	16.61	16.62	16.66	16.55	16.55	17.80
5	QPSK	12	13	16.57	16.65	16.63	16.65	16.51	17.80
5	QPSK	25	0	16.67	16.56	16.59	16.61	16.51	17.80
5	16QAM	1	0	16.70	16.57	16.68	16.58	16.59	17.80
5	16QAM	1	12	16.57	16.63	16.56	16.47	16.60	17.80
5	16QAM	1	24	16.73	16.62	16.59	16.45	16.63	17.80
5	16QAM	12	0	16.64	16.58	16.60	16.57	16.60	17.80
5	16QAM	12	7	16.60	16.53	16.64	16.54	16.52	17.80
5	16QAM	12	13	16.57	16.67	16.64	16.60	16.43	17.80
5	16QAM	25	0	16.61	16.58	16.61	16.53	16.54	17.80
5	64QAM	1	0	16.63	16.67	16.72	16.57	16.60	17.80
5	64QAM	1	12	16.52	16.59	16.55	16.63	16.56	17.80
5	64QAM	1	24	16.58	16.58	16.72	16.57	16.53	17.80
5	64QAM	12	0	16.65	16.63	16.57	16.51	16.63	17.80
5	64QAM	12	7	16.56	16.59	16.54	16.49	16.47	17.80
5	64QAM	12	13	16.65	16.51	16.55	16.58	16.53	17.80
5	64QAM	25	0	16.59	16.68	16.66	16.56	16.55	17.80
5	256QAM	1	0	16.58	16.65	16.69	16.56	16.59	17.80
5	256QAM	1	12	16.53	16.59	16.61	16.48	16.60	17.80
5	256QAM	1	24	16.63	16.63	16.73	16.46	16.53	17.80



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5	256QAM	12	0	16.72	16.62	16.71	16.56	16.51	17.80
5	256QAM	12	7	16.57	16.63	16.63	16.58	16.62	17.80
5	256QAM	12	13	16.70	16.59	16.63	16.60	16.62	17.80
5	256QAM	25	0	16.61	16.66	16.66	16.64	16.55	17.80

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 0_DSI 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.31	24.33	24.39	24.23	24.26	25.20
20	QPSK	1	49	24.05	24.14	24.25	23.96	24.03	25.20
20	QPSK	1	99	24.08	24.07	24.21	23.98	24.05	25.20
20	QPSK	50	0	24.17	24.22	24.27	24.15	24.26	25.20
20	QPSK	50	24	24.00	24.05	24.15	23.97	24.00	25.20
20	QPSK	50	50	23.98	23.98	24.15	23.90	23.99	25.20
20	QPSK	100	0	24.03	24.10	24.14	24.09	24.11	25.20
20	16QAM	1	0	24.05	24.00	24.16	23.97	23.93	25.20
20	16QAM	1	49	24.04	23.96	24.14	23.88	23.95	25.20
20	16QAM	1	99	23.90	23.92	24.10	23.80	23.94	25.20
20	16QAM	50	0	23.50	23.60	23.68	23.51	23.48	25.00
20	16QAM	50	24	23.44	23.54	23.66	23.45	23.42	25.00
20	16QAM	50	50	23.47	23.59	23.68	23.50	23.42	25.00
20	16QAM	100	0	23.48	23.48	23.65	23.46	23.47	25.00
20	64QAM	1	0	23.50	23.45	23.63	23.38	23.39	25.00
20	64QAM	1	49	23.48	23.58	23.71	23.43	23.49	25.00
20	64QAM	1	99	23.51	23.50	23.68	23.40	23.54	25.00
20	64QAM	50	0	22.53	22.44	22.64	22.44	22.45	24.00
20	64QAM	50	24	22.48	22.45	22.63	22.39	22.47	24.00
20	64QAM	50	50	22.47	22.41	22.61	22.41	22.42	24.00
20	64QAM	100	0	22.58	22.60	22.74	22.50	22.48	24.00
20	256QAM	1	0	20.63	20.61	20.75	20.60	20.62	22.00
20	256QAM	1	49	20.56	20.55	20.71	20.43	20.57	22.00
20	256QAM	1	99	20.51	20.52	20.72	20.48	20.56	22.00
20	256QAM	50	0	20.59	20.60	20.68	20.40	20.53	22.00
20	256QAM	50	24	20.52	20.59	20.67	20.39	20.54	22.00
20	256QAM	50	50	20.66	20.55	20.74	20.51	20.51	22.00
20	256QAM	100	0	20.49	20.52	20.62	20.44	20.46	22.00
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.20	24.18	24.31	24.20	24.18	25.20
15	QPSK	1	37	23.96	24.12	24.13	23.83	23.93	25.20
15	QPSK	1	74	24.00	23.98	24.16	23.86	23.99	25.20
15	QPSK	36	0	24.10	24.18	24.21	24.08	24.23	25.20
15	QPSK	36	20	23.90	24.02	24.03	23.86	23.95	25.20
15	QPSK	36	39	23.86	23.91	24.12	23.86	23.90	25.20
15	QPSK	75	0	23.95	24.02	24.12	24.05	24.06	25.20
15	16QAM	1	0	24.04	23.99	24.04	23.85	23.86	25.20
15	16QAM	1	37	23.97	23.86	24.07	23.77	23.87	25.20
15	16QAM	1	74	23.84	23.83	23.97	23.78	23.84	25.20
15	16QAM	36	0	23.39	23.47	23.60	23.45	23.36	25.00
15	16QAM	36	20	23.30	23.51	23.55	23.33	23.35	25.00
15	16QAM	36	39	23.45	23.49	23.63	23.37	23.32	25.00
15	16QAM	75	0	23.36	23.35	23.54	23.36	23.38	25.00
15	64QAM	1	0	23.41	23.34	23.58	23.26	23.31	25.00
15	64QAM	1	37	23.37	23.55	23.64	23.38	23.44	25.00
15	64QAM	1	74	23.41	23.39	23.53	23.32	23.51	25.00
15	64QAM	36	0	22.44	22.38	22.59	22.35	22.41	24.00
15	64QAM	36	20	22.44	22.35	22.49	22.31	22.40	24.00
15	64QAM	36	39	22.44	22.37	22.47	22.30	22.41	24.00
15	64QAM	75	0	22.54	22.47	22.70	22.46	22.39	24.00
15	256QAM	1	0	20.51	20.58	20.62	20.52	20.50	22.00
15	256QAM	1	37	20.46	20.48	20.66	20.29	20.54	22.00
15	256QAM	1	74	20.38	20.40	20.68	20.37	20.52	22.00
15	256QAM	36	0	20.48	20.57	20.57	20.38	20.51	22.00
15	256QAM	36	20	20.39	20.57	20.55	20.32	20.45	22.00
15	256QAM	36	39	20.61	20.51	20.65	20.49	20.44	22.00
15	256QAM	75	0	20.43	20.48	20.55	20.38	20.39	22.00
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.21	24.18	24.25	24.20	24.15	25.20



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10	QPSK	1	25	24.04	24.06	24.21	23.83	23.90	25.20
10	QPSK	1	49	23.95	23.92	24.11	23.92	23.92	25.20
10	QPSK	25	0	24.05	24.10	24.24	24.07	24.14	25.20
10	QPSK	25	12	23.89	23.95	24.02	23.95	23.88	25.20
10	QPSK	25	25	23.92	23.94	24.00	23.87	23.85	25.20
10	QPSK	50	0	23.95	23.96	24.03	23.96	24.09	25.20
10	16QAM	1	0	24.03	23.98	24.14	23.91	23.91	25.20
10	16QAM	1	25	24.00	23.85	24.02	23.86	23.89	25.20
10	16QAM	1	49	23.83	23.87	24.04	23.77	23.92	25.20
10	16QAM	25	0	23.42	23.49	23.54	23.45	23.39	25.00
10	16QAM	25	12	23.40	23.41	23.63	23.31	23.34	25.00
10	16QAM	25	25	23.42	23.55	23.67	23.43	23.33	25.00
10	16QAM	50	0	23.42	23.39	23.59	23.40	23.43	25.00
10	64QAM	1	0	23.42	23.42	23.59	23.36	23.24	25.00
10	64QAM	1	25	23.38	23.52	23.64	23.41	23.44	25.00
10	64QAM	1	49	23.48	23.36	23.62	23.31	23.53	25.00
10	64QAM	25	0	22.46	22.35	22.58	22.39	22.39	24.00
10	64QAM	25	12	22.44	22.39	22.57	22.28	22.33	24.00
10	64QAM	25	25	22.33	22.34	22.60	22.30	22.32	24.00
10	64QAM	50	0	22.47	22.57	22.72	22.40	22.40	24.00
10	256QAM	1	0	20.53	20.54	20.65	20.47	20.59	22.00
10	256QAM	1	25	20.48	20.53	20.63	20.34	20.47	22.00
10	256QAM	1	49	20.45	20.45	20.59	20.39	20.45	22.00
10	256QAM	25	0	20.46	20.47	20.64	20.30	20.44	22.00
10	256QAM	25	12	20.41	20.48	20.55	20.28	20.45	22.00
10	256QAM	25	25	20.53	20.53	20.70	20.37	20.49	22.00
10	256QAM	50	0	20.39	20.44	20.57	20.32	20.38	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	24.28	24.22	24.36	24.13	24.15	25.20
5	QPSK	1	12	23.96	24.03	24.23	23.89	23.89	25.20
5	QPSK	1	24	24.03	24.01	24.10	23.90	24.00	25.20
5	QPSK	12	0	24.10	24.20	24.17	24.05	24.18	25.20
5	QPSK	12	7	23.88	23.97	24.06	23.83	23.86	25.20
5	QPSK	12	13	23.88	23.90	24.03	23.81	23.93	25.20
5	QPSK	25	0	23.96	23.95	24.03	24.05	23.96	25.20
5	16QAM	1	0	24.03	23.94	24.02	23.84	23.81	25.20
5	16QAM	1	12	24.01	23.89	24.02	23.78	23.80	25.20
5	16QAM	1	24	23.85	23.79	24.05	23.71	23.92	25.20
5	16QAM	12	0	23.46	23.55	23.66	23.39	23.44	25.00
5	16QAM	12	7	23.33	23.49	23.57	23.31	23.27	25.00
5	16QAM	12	13	23.44	23.46	23.66	23.46	23.30	25.00
5	16QAM	25	0	23.44	23.46	23.54	23.43	23.41	25.00
5	64QAM	1	0	23.48	23.38	23.58	23.25	23.30	25.00
5	64QAM	1	12	23.34	23.52	23.58	23.39	23.48	25.00
5	64QAM	1	24	23.48	23.38	23.54	23.27	23.48	25.00
5	64QAM	12	0	22.47	22.39	22.56	22.32	22.44	24.00
5	64QAM	12	7	22.41	22.44	22.58	22.34	22.39	24.00
5	64QAM	12	13	22.45	22.40	22.59	22.27	22.40	24.00
5	64QAM	25	0	22.54	22.57	22.73	22.48	22.39	24.00
5	256QAM	1	0	20.50	20.56	20.70	20.56	20.53	22.00
5	256QAM	1	12	20.52	20.50	20.65	20.31	20.50	22.00
5	256QAM	1	24	20.43	20.47	20.70	20.39	20.55	22.00
5	256QAM	12	0	20.51	20.51	20.57	20.28	20.45	22.00
5	256QAM	12	7	20.41	20.52	20.53	20.35	20.47	22.00
5	256QAM	12	13	20.63	20.47	20.64	20.45	20.43	22.00
5	256QAM	25	0	20.47	20.44	20.57	20.32	20.35	22.00

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 0_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.71	25.75	25.85	25.79	25.81	27.00
20	QPSK	1	49	25.31	25.34	25.56	25.38	25.47	27.00
20	QPSK	1	99	25.36	25.31	25.54	25.46	25.41	27.00
20	QPSK	50	0	24.91	24.88	24.94	24.82	24.83	26.00
20	QPSK	50	24	24.68	24.66	24.85	24.69	24.69	26.00
20	QPSK	50	50	24.55	24.52	24.72	24.58	24.55	26.00
20	QPSK	100	0	24.69	24.76	24.90	24.77	24.85	26.00
20	16QAM	1	0	24.50	24.54	24.72	24.65	24.63	26.00



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20	16QAM	1	49	24.39	24.42	24.63	24.49	24.45	26.00
20	16QAM	1	99	24.42	24.51	24.65	24.53	24.50	26.00
20	16QAM	50	0	23.40	23.43	23.63	23.46	23.57	25.00
20	16QAM	50	24	23.62	23.61	23.79	23.60	23.70	25.00
20	16QAM	50	50	23.55	23.64	23.81	23.65	23.67	25.00
20	16QAM	100	0	23.67	23.65	23.86	23.74	23.80	25.00
20	64QAM	1	0	23.64	23.64	23.82	23.68	23.77	25.00
20	64QAM	1	49	23.50	23.57	23.69	23.53	23.57	25.00
20	64QAM	1	99	23.67	23.69	23.81	23.73	23.70	25.00
20	64QAM	50	0	22.60	22.67	22.83	22.67	22.73	24.00
20	64QAM	50	24	22.70	22.63	22.84	22.66	22.71	24.00
20	64QAM	50	50	22.50	22.61	22.71	22.58	22.56	24.00
20	64QAM	100	0	22.48	22.51	22.73	22.63	22.64	24.00
20	256QAM	1	0	20.58	20.60	20.82	20.76	20.74	22.00
20	256QAM	1	49	20.67	20.71	20.87	20.72	20.83	22.00
20	256QAM	1	99	20.57	20.49	20.70	20.55	20.56	22.00
20	256QAM	50	0	20.65	20.64	20.82	20.64	20.75	22.00
20	256QAM	50	24	20.60	20.71	20.86	20.66	20.73	22.00
20	256QAM	50	50	20.45	20.54	20.65	20.57	20.51	22.00
20	256QAM	100	0	20.52	20.61	20.74	20.57	20.58	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.59	25.63	25.70	25.67	25.76	27.00
15	QPSK	1	37	25.18	25.20	25.55	25.36	25.34	27.00
15	QPSK	1	74	25.28	25.21	25.41	25.31	25.30	27.00
15	QPSK	36	0	24.89	24.84	24.79	24.80	24.72	26.00
15	QPSK	36	20	24.57	24.55	24.83	24.57	24.56	26.00
15	QPSK	36	39	24.49	24.49	24.69	24.56	24.45	26.00
15	QPSK	75	0	24.63	24.66	24.78	24.64	24.76	26.00
15	16QAM	1	0	24.39	24.43	24.63	24.62	24.58	26.00
15	16QAM	1	37	24.25	24.40	24.58	24.35	24.35	26.00
15	16QAM	1	74	24.40	24.42	24.61	24.48	24.35	26.00
15	16QAM	36	0	23.35	23.39	23.58	23.43	23.49	25.00
15	16QAM	36	20	23.50	23.56	23.72	23.53	23.65	25.00
15	16QAM	36	39	23.54	23.51	23.79	23.54	23.65	25.00
15	16QAM	75	0	23.57	23.55	23.73	23.71	23.68	25.00
15	64QAM	1	0	23.57	23.62	23.71	23.54	23.72	25.00
15	64QAM	1	37	23.36	23.54	23.58	23.45	23.45	25.00
15	64QAM	1	74	23.65	23.61	23.70	23.59	23.58	25.00
15	64QAM	36	0	22.55	22.53	22.80	22.53	22.60	24.00
15	64QAM	36	20	22.64	22.58	22.76	22.56	22.59	24.00
15	64QAM	36	39	22.36	22.57	22.63	22.43	22.42	24.00
15	64QAM	75	0	22.39	22.45	22.65	22.49	22.51	24.00
15	256QAM	1	0	20.47	20.51	20.79	20.63	20.61	22.00
15	256QAM	1	37	20.66	20.63	20.82	20.59	20.71	22.00
15	256QAM	1	74	20.51	20.34	20.56	20.52	20.49	22.00
15	256QAM	36	0	20.62	20.60	20.71	20.60	20.73	22.00
15	256QAM	36	20	20.56	20.69	20.76	20.61	20.69	22.00
15	256QAM	36	39	20.38	20.39	20.55	20.48	20.44	22.00
15	256QAM	75	0	20.39	20.57	20.68	20.53	20.51	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.69	25.65	25.76	25.72	25.68	27.00
10	QPSK	1	25	25.16	25.26	25.52	25.32	25.39	27.00
10	QPSK	1	49	25.27	25.28	25.44	25.32	25.39	27.00
10	QPSK	25	0	24.79	24.80	24.85	24.67	24.70	26.00
10	QPSK	25	12	24.55	24.58	24.79	24.61	24.55	26.00
10	QPSK	25	25	24.47	24.42	24.67	24.54	24.52	26.00
10	QPSK	50	0	24.56	24.74	24.79	24.69	24.71	26.00
10	16QAM	1	0	24.36	24.39	24.61	24.50	24.48	26.00
10	16QAM	1	25	24.24	24.33	24.58	24.40	24.40	26.00
10	16QAM	1	49	24.41	24.46	24.62	24.48	24.48	26.00
10	16QAM	25	0	23.29	23.41	23.52	23.34	23.56	25.00
10	16QAM	25	12	23.57	23.56	23.73	23.58	23.57	25.00
10	16QAM	25	25	23.49	23.57	23.79	23.63	23.58	25.00
10	16QAM	50	0	23.55	23.51	23.84	23.70	23.74	25.00
10	64QAM	1	0	23.59	23.51	23.70	23.63	23.71	25.00
10	64QAM	1	25	23.42	23.48	23.64	23.39	23.47	25.00
10	64QAM	1	49	23.62	23.59	23.76	23.70	23.68	25.00
10	64QAM	25	0	22.50	22.62	22.71	22.56	22.71	24.00
10	64QAM	25	12	22.65	22.55	22.82	22.53	22.70	24.00
10	64QAM	25	25	22.46	22.55	22.65	22.54	22.51	24.00
10	64QAM	50	0	22.37	22.44	22.58	22.54	22.49	24.00
10	256QAM	1	0	20.49	20.56	20.75	20.70	20.68	22.00
10	256QAM	1	25	20.58	20.56	20.80	20.60	20.79	22.00
10	256QAM	1	49	20.42	20.44	20.62	20.49	20.41	22.00



10	256QAM	25	0	20.52	20.51	20.68	20.50	20.73	22.00
10	256QAM	25	12	20.48	20.59	20.84	20.58	20.71	22.00
10	256QAM	25	25	20.32	20.41	20.60	20.48	20.37	22.00
10	256QAM	50	0	20.41	20.49	20.71	20.43	20.50	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	25.68	25.62	25.78	25.76	25.69	27.00
5	QPSK	1	12	25.18	25.25	25.54	25.33	25.39	27.00
5	QPSK	1	24	25.30	25.25	25.50	25.39	25.29	27.00
5	QPSK	12	0	24.83	24.76	24.89	24.69	24.79	26.00
5	QPSK	12	7	24.56	24.64	24.83	24.55	24.54	26.00
5	QPSK	12	13	24.50	24.46	24.62	24.44	24.54	26.00
5	QPSK	25	0	24.55	24.70	24.82	24.72	24.82	26.00
5	16QAM	1	0	24.40	24.50	24.70	24.60	24.52	26.00
5	16QAM	1	12	24.36	24.37	24.55	24.41	24.43	26.00
5	16QAM	1	24	24.28	24.37	24.58	24.47	24.48	26.00
5	16QAM	12	0	23.32	23.42	23.62	23.36	23.49	25.00
5	16QAM	12	7	23.54	23.51	23.65	23.53	23.63	25.00
5	16QAM	12	13	23.48	23.56	23.80	23.64	23.58	25.00
5	16QAM	25	0	23.61	23.53	23.74	23.70	23.70	25.00
5	64QAM	1	0	23.53	23.54	23.78	23.55	23.66	25.00
5	64QAM	1	12	23.46	23.47	23.61	23.47	23.46	25.00
5	64QAM	1	24	23.55	23.61	23.78	23.71	23.65	25.00
5	64QAM	12	0	22.57	22.61	22.76	22.63	22.68	24.00
5	64QAM	12	7	22.63	22.54	22.76	22.65	22.66	24.00
5	64QAM	12	13	22.41	22.51	22.69	22.46	22.49	24.00
5	64QAM	25	0	22.47	22.40	22.71	22.53	22.50	24.00
5	256QAM	1	0	20.49	20.57	20.77	20.63	20.71	22.00
5	256QAM	1	12	20.55	20.67	20.76	20.65	20.81	22.00
5	256QAM	1	24	20.47	20.39	20.58	20.45	20.45	22.00
5	256QAM	12	0	20.56	20.60	20.79	20.62	20.61	22.00
5	256QAM	12	7	20.48	20.65	20.76	20.53	20.70	22.00
5	256QAM	12	13	20.37	20.47	20.52	20.43	20.48	22.00
5	256QAM	25	0	20.46	20.59	20.70	20.55	20.46	22.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 2_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.01	23.11	23.16	23.12	23.05	24.00
20	QPSK	1	49	22.70	22.90	22.99	22.84	22.80	24.00
20	QPSK	1	99	22.65	22.75	22.88	22.82	22.76	24.00
20	QPSK	50	0	22.15	22.13	22.19	22.11	22.08	23.00
20	QPSK	50	24	21.81	21.92	22.07	21.90	21.86	23.00
20	QPSK	50	50	21.73	21.90	21.99	21.84	21.83	23.00
20	QPSK	100	0	21.83	21.99	22.11	22.02	21.92	23.00
20	16QAM	1	0	21.77	21.87	22.02	21.96	21.77	23.00
20	16QAM	1	49	21.97	22.10	22.17	22.02	22.00	23.00
20	16QAM	1	99	21.89	21.91	22.09	21.94	21.85	23.00
20	16QAM	50	0	20.84	20.96	21.10	21.01	20.93	22.00
20	16QAM	50	24	20.95	21.06	21.17	21.12	20.97	22.00
20	16QAM	50	50	20.82	20.85	21.03	20.84	20.82	22.00
20	16QAM	100	0	20.92	21.00	21.11	20.93	20.97	22.00
20	64QAM	1	0	20.91	21.06	21.17	21.04	20.96	22.00
20	64QAM	1	49	20.98	21.03	21.15	21.04	20.93	22.00
20	64QAM	1	99	20.87	21.06	21.12	20.96	20.98	22.00
20	64QAM	50	0	19.89	20.06	20.14	19.98	19.97	21.00
20	64QAM	50	24	19.84	19.80	19.98	19.90	19.85	21.00
20	64QAM	50	50	19.76	19.89	20.01	19.87	19.89	21.00
20	64QAM	100	0	19.87	19.95	20.11	20.06	19.92	21.00
20	256QAM	1	0	17.78	17.84	17.99	17.92	17.77	19.00
20	256QAM	1	49	17.87	17.98	18.07	17.99	17.87	19.00
20	256QAM	1	99	17.82	17.78	17.95	17.88	17.83	19.00
20	256QAM	50	0	17.83	17.91	18.02	17.96	17.90	19.00
20	256QAM	50	24	17.74	17.87	17.94	17.87	17.71	19.00
20	256QAM	50	50	17.78	17.78	17.95	17.87	17.73	19.00
20	256QAM	100	0	17.81	17.90	18.03	17.88	17.83	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.94	23.07	23.05	23.02	23.03	24.00



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15	QPSK	1	37	22.66	22.82	22.98	22.77	22.73	24.00
15	QPSK	1	74	22.57	22.71	22.81	22.71	22.62	24.00
15	QPSK	36	0	22.13	22.11	22.05	21.96	22.00	23.00
15	QPSK	36	20	21.69	21.85	22.00	21.82	21.71	23.00
15	QPSK	36	39	21.69	21.78	21.92	21.74	21.81	23.00
15	QPSK	75	0	21.79	21.86	21.97	21.89	21.84	23.00
15	16QAM	1	0	21.64	21.82	21.88	21.87	21.67	23.00
15	16QAM	1	37	21.94	22.05	22.03	21.91	21.86	23.00
15	16QAM	1	74	21.80	21.76	22.04	21.81	21.75	23.00
15	16QAM	36	0	20.81	20.95	21.06	20.87	20.86	22.00
15	16QAM	36	20	20.82	21.02	21.02	20.98	20.82	22.00
15	16QAM	36	39	20.80	20.73	20.90	20.73	20.71	22.00
15	16QAM	75	0	20.85	20.94	21.04	20.81	20.95	22.00
15	64QAM	1	0	20.77	20.93	21.07	20.90	20.89	22.00
15	64QAM	1	37	20.87	20.89	21.09	20.92	20.82	22.00
15	64QAM	1	74	20.80	20.95	21.02	20.93	20.92	22.00
15	64QAM	36	0	19.85	19.97	20.10	19.95	19.95	21.00
15	64QAM	36	20	19.78	19.77	19.91	19.85	19.84	21.00
15	64QAM	36	39	19.65	19.84	19.88	19.76	19.82	21.00
15	64QAM	75	0	19.80	19.81	19.99	19.99	19.87	21.00
15	256QAM	1	0	17.74	17.77	17.87	17.78	17.69	19.00
15	256QAM	1	37	17.82	17.91	17.99	17.89	17.80	19.00
15	256QAM	1	74	17.73	17.69	17.93	17.76	17.69	19.00
15	256QAM	36	0	17.75	17.78	17.91	17.83	17.89	19.00
15	256QAM	36	20	17.69	17.83	17.80	17.73	17.65	19.00
15	256QAM	36	39	17.71	17.68	17.90	17.81	17.67	19.00
15	256QAM	75	0	17.67	17.88	17.89	17.86	17.77	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.99	23.00	23.09	23.10	22.99	24.00
10	QPSK	1	25	22.58	22.75	22.85	22.73	22.68	24.00
10	QPSK	1	49	22.52	22.65	22.75	22.77	22.72	24.00
10	QPSK	25	0	22.06	22.06	22.06	22.09	21.97	23.00
10	QPSK	25	12	21.68	21.82	21.95	21.87	21.77	23.00
10	QPSK	25	25	21.62	21.79	21.96	21.82	21.80	23.00
10	QPSK	50	0	21.70	21.88	21.99	21.94	21.81	23.00
10	16QAM	1	0	21.75	21.77	21.90	21.90	21.66	23.00
10	16QAM	1	25	21.85	21.97	22.04	22.01	21.98	23.00
10	16QAM	1	49	21.82	21.89	22.02	21.90	21.73	23.00
10	16QAM	25	0	20.77	20.94	20.96	20.87	20.79	22.00
10	16QAM	25	12	20.87	20.96	21.12	20.98	20.85	22.00
10	16QAM	25	25	20.71	20.80	20.92	20.71	20.75	22.00
10	16QAM	50	0	20.86	20.98	21.04	20.88	20.84	22.00
10	64QAM	1	0	20.83	21.04	21.12	20.97	20.83	22.00
10	64QAM	1	25	20.90	20.95	21.01	20.90	20.84	22.00
10	64QAM	1	49	20.72	20.97	21.02	20.82	20.93	22.00
10	64QAM	25	0	19.82	19.98	19.99	19.94	19.90	21.00
10	64QAM	25	12	19.80	19.77	19.84	19.76	19.78	21.00
10	64QAM	25	25	19.63	19.78	19.90	19.78	19.80	21.00
10	64QAM	50	0	19.81	19.85	19.98	19.94	19.82	21.00
10	256QAM	1	0	17.68	17.82	17.91	17.82	17.73	19.00
10	256QAM	1	25	17.82	17.90	18.04	17.87	17.81	19.00
10	256QAM	1	49	17.76	17.69	17.82	17.79	17.75	19.00
10	256QAM	25	0	17.79	17.88	17.89	17.92	17.77	19.00
10	256QAM	25	12	17.72	17.76	17.84	17.80	17.69	19.00
10	256QAM	25	25	17.75	17.72	17.94	17.83	17.63	19.00
10	256QAM	50	0	17.66	17.76	17.98	17.76	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.99	22.99	23.13	22.98	22.91	24.00
5	QPSK	1	12	22.66	22.81	22.92	22.75	22.71	24.00
5	QPSK	1	24	22.63	22.72	22.76	22.72	22.67	24.00
5	QPSK	12	0	22.11	22.06	22.14	21.99	22.01	23.00
5	QPSK	12	7	21.79	21.88	21.98	21.86	21.83	23.00
5	QPSK	12	13	21.67	21.81	21.85	21.72	21.70	23.00
5	QPSK	25	0	21.73	21.97	22.02	22.00	21.81	23.00
5	16QAM	1	0	21.69	21.83	21.92	21.81	21.68	23.00
5	16QAM	1	12	21.93	22.08	22.09	21.96	21.88	23.00
5	16QAM	1	24	21.82	21.81	22.02	21.86	21.76	23.00
5	16QAM	12	0	20.79	20.92	21.05	20.95	20.85	22.00
5	16QAM	12	7	20.90	21.04	21.11	21.09	20.89	22.00
5	16QAM	12	13	20.69	20.73	20.98	20.75	20.77	22.00
5	16QAM	25	0	20.88	20.88	21.09	20.87	20.95	22.00
5	64QAM	1	0	20.82	21.02	21.09	20.91	20.94	22.00
5	64QAM	1	12	20.94	20.97	21.08	20.91	20.87	22.00
5	64QAM	1	24	20.83	20.99	21.10	20.93	20.93	22.00



5	64QAM	12	0	19.76	19.93	20.09	19.87	19.88	21.00
5	64QAM	12	7	19.75	19.73	19.88	19.76	19.84	21.00
5	64QAM	12	13	19.67	19.76	19.94	19.78	19.76	21.00
5	64QAM	25	0	19.75	19.91	20.10	19.95	19.88	21.00
5	256QAM	1	0	17.75	17.72	17.92	17.82	17.67	19.00
5	256QAM	1	12	17.78	17.96	18.06	17.96	17.86	19.00
5	256QAM	1	24	17.73	17.69	17.94	17.78	17.76	19.00
5	256QAM	12	0	17.71	17.89	18.00	17.90	17.76	19.00
5	256QAM	12	7	17.67	17.76	17.81	17.85	17.58	19.00
5	256QAM	12	13	17.71	17.68	17.82	17.81	17.61	19.00
5	256QAM	25	0	17.73	17.81	17.95	17.81	17.72	19.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 2_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.08	26.15	26.20	26.05	26.08	27.00
20	QPSK	1	49	25.82	25.80	25.99	25.80	25.75	27.00
20	QPSK	1	99	25.59	25.73	25.83	25.62	25.69	27.00
20	QPSK	50	0	24.98	24.99	25.04	25.01	24.91	26.00
20	QPSK	50	24	24.80	24.88	24.96	24.68	24.82	26.00
20	QPSK	50	50	24.87	24.91	25.03	24.77	24.80	26.00
20	QPSK	100	0	24.80	24.87	25.01	24.79	24.86	26.00
20	16QAM	1	0	24.88	24.94	25.09	24.91	24.90	26.00
20	16QAM	1	49	24.78	24.94	25.00	24.80	24.86	26.00
20	16QAM	1	99	24.86	24.91	25.09	24.80	24.87	26.00
20	16QAM	50	0	23.82	23.84	23.97	23.78	23.74	25.00
20	16QAM	50	24	23.90	23.84	24.03	23.76	23.89	25.00
20	16QAM	50	50	23.82	23.85	24.03	23.83	23.89	25.00
20	16QAM	100	0	23.69	23.75	23.92	23.69	23.73	25.00
20	64QAM	1	0	23.93	23.99	24.09	23.88	23.84	25.00
20	64QAM	1	49	23.92	23.89	24.08	23.83	23.93	25.00
20	64QAM	1	99	23.81	23.94	24.06	23.88	23.83	25.00
20	64QAM	50	0	22.77	22.85	22.92	22.65	22.78	24.00
20	64QAM	50	24	22.96	22.95	23.12	22.89	22.88	24.00
20	64QAM	50	50	22.79	22.76	22.93	22.67	22.80	24.00
20	64QAM	100	0	22.78	22.81	22.94	22.79	22.75	24.00
20	256QAM	1	0	20.92	20.99	21.08	20.84	20.84	22.00
20	256QAM	1	49	20.89	21.01	21.07	20.88	20.94	22.00
20	256QAM	1	99	20.75	20.82	20.95	20.80	20.74	22.00
20	256QAM	50	0	20.94	21.05	21.12	20.88	21.01	22.00
20	256QAM	50	24	20.80	20.76	20.92	20.75	20.78	22.00
20	256QAM	50	50	20.97	20.97	21.12	20.91	20.98	22.00
20	256QAM	100	0	20.71	20.85	20.91	20.73	20.70	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.93	26.03	26.16	25.91	26.01	27.00
15	QPSK	1	37	25.77	25.71	25.88	25.67	25.65	27.00
15	QPSK	1	74	25.50	25.70	25.68	25.47	25.67	27.00
15	QPSK	36	0	24.74	24.80	24.92	24.74	24.74	26.00
15	QPSK	36	20	24.72	24.73	24.90	24.62	24.79	26.00
15	QPSK	36	39	24.72	24.82	24.98	24.63	24.74	26.00
15	QPSK	75	0	24.70	24.78	24.97	24.69	24.81	26.00
15	16QAM	1	0	24.85	24.83	24.97	24.82	24.77	26.00
15	16QAM	1	37	24.71	24.82	24.97	24.76	24.85	26.00
15	16QAM	1	74	24.73	24.87	25.02	24.78	24.86	26.00
15	16QAM	36	0	23.74	23.80	23.89	23.64	23.71	25.00
15	16QAM	36	20	23.87	23.76	23.94	23.66	23.79	25.00
15	16QAM	36	39	23.81	23.82	24.00	23.70	23.77	25.00
15	16QAM	75	0	23.68	23.67	23.82	23.56	23.60	25.00
15	64QAM	1	0	23.89	23.90	23.95	23.75	23.76	25.00
15	64QAM	1	37	23.87	23.82	24.03	23.69	23.80	25.00
15	64QAM	1	74	23.68	23.87	24.03	23.77	23.75	25.00
15	64QAM	36	0	22.76	22.82	22.86	22.60	22.68	24.00
15	64QAM	36	20	22.81	22.85	23.04	22.78	22.79	24.00
15	64QAM	36	39	22.67	22.73	22.81	22.62	22.71	24.00
15	64QAM	75	0	22.64	22.77	22.79	22.70	22.72	24.00
15	256QAM	1	0	20.78	20.85	21.03	20.78	20.76	22.00
15	256QAM	1	37	20.81	20.88	20.94	20.80	20.92	22.00
15	256QAM	1	74	20.60	20.80	20.88	20.76	20.68	22.00



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15	256QAM	36	0	20.91	21.00	20.98	20.84	21.00	22.00
15	256QAM	36	20	20.66	20.66	20.88	20.69	20.71	22.00
15	256QAM	36	39	20.90	20.84	21.09	20.77	20.84	22.00
15	256QAM	75	0	20.60	20.82	20.82	20.68	20.55	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.95	26.08	26.09	25.94	26.02	27.00
10	QPSK	1	25	25.71	25.76	25.97	25.75	25.62	27.00
10	QPSK	1	49	25.53	25.66	25.71	25.60	25.57	27.00
10	QPSK	25	0	24.71	24.85	24.94	24.72	24.67	26.00
10	QPSK	25	12	24.77	24.84	24.92	24.56	24.73	26.00
10	QPSK	25	25	24.76	24.84	24.98	24.74	24.66	26.00
10	QPSK	50	0	24.76	24.85	24.96	24.76	24.75	26.00
10	16QAM	1	0	24.78	24.89	24.99	24.80	24.77	26.00
10	16QAM	1	25	24.71	24.89	24.85	24.67	24.75	26.00
10	16QAM	1	49	24.74	24.83	24.97	24.73	24.85	26.00
10	16QAM	25	0	23.76	23.70	23.95	23.69	23.71	25.00
10	16QAM	25	12	23.83	23.79	23.99	23.75	23.83	25.00
10	16QAM	25	25	23.70	23.79	23.92	23.72	23.85	25.00
10	16QAM	50	0	23.56	23.66	23.86	23.68	23.70	25.00
10	64QAM	1	0	23.87	23.92	23.99	23.75	23.75	25.00
10	64QAM	1	25	23.81	23.87	23.94	23.69	23.89	25.00
10	64QAM	1	49	23.67	23.81	23.99	23.86	23.76	25.00
10	64QAM	25	0	22.74	22.83	22.87	22.60	22.66	24.00
10	64QAM	25	12	22.82	22.82	23.07	22.78	22.85	24.00
10	64QAM	25	25	22.73	22.66	22.80	22.62	22.72	24.00
10	64QAM	50	0	22.65	22.79	22.92	22.72	22.64	24.00
10	256QAM	1	0	20.84	20.93	20.98	20.75	20.72	22.00
10	256QAM	1	25	20.80	20.88	20.96	20.82	20.82	22.00
10	256QAM	1	49	20.72	20.80	20.87	20.70	20.67	22.00
10	256QAM	25	0	20.89	21.03	21.02	20.85	20.91	22.00
10	256QAM	25	12	20.72	20.66	20.86	20.72	20.75	22.00
10	256QAM	25	25	20.93	20.91	20.99	20.85	20.86	22.00
10	256QAM	50	0	20.61	20.74	20.81	20.65	20.56	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	25.95	26.10	26.17	25.90	26.03	27.00
5	QPSK	1	12	25.70	25.78	25.96	25.66	25.72	27.00
5	QPSK	1	24	25.58	25.68	25.70	25.57	25.57	27.00
5	QPSK	12	0	24.70	24.78	24.91	24.77	24.68	26.00
5	QPSK	12	7	24.74	24.74	24.82	24.60	24.73	26.00
5	QPSK	12	13	24.85	24.79	25.01	24.65	24.74	26.00
5	QPSK	25	0	24.74	24.75	24.97	24.70	24.75	26.00
5	16QAM	1	0	24.85	24.86	25.07	24.77	24.85	26.00
5	16QAM	1	12	24.71	24.91	24.88	24.74	24.79	26.00
5	16QAM	1	24	24.77	24.81	25.06	24.71	24.80	26.00
5	16QAM	12	0	23.80	23.72	23.90	23.63	23.68	25.00
5	16QAM	12	7	23.76	23.73	24.00	23.64	23.80	25.00
5	16QAM	12	13	23.74	23.78	23.93	23.76	23.87	25.00
5	16QAM	25	0	23.60	23.63	23.90	23.61	23.66	25.00
5	64QAM	1	0	23.80	23.97	23.95	23.78	23.81	25.00
5	64QAM	1	12	23.83	23.81	24.05	23.72	23.82	25.00
5	64QAM	1	24	23.70	23.86	24.01	23.75	23.70	25.00
5	64QAM	12	0	22.72	22.81	22.80	22.53	22.65	24.00
5	64QAM	12	7	22.81	22.92	23.01	22.83	22.76	24.00
5	64QAM	12	13	22.73	22.69	22.90	22.58	22.70	24.00
5	64QAM	25	0	22.74	22.73	22.83	22.78	22.73	24.00
5	256QAM	1	0	20.86	20.96	20.99	20.74	20.79	22.00
5	256QAM	1	12	20.85	20.92	20.99	20.84	20.79	22.00
5	256QAM	1	24	20.64	20.77	20.88	20.71	20.61	22.00
5	256QAM	12	0	20.87	20.91	21.01	20.79	21.00	22.00
5	256QAM	12	7	20.78	20.64	20.80	20.68	20.69	22.00
5	256QAM	12	13	20.86	20.90	21.10	20.87	20.83	22.00
5	256QAM	25	0	20.63	20.84	20.81	20.69	20.68	22.00



【LTE Band 41__FCC (2496~2690MHz)_Ant 2_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24.00
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.01	23.11	23.16	23.12	23.05	24.00
20	QPSK	1	49	22.70	22.90	22.99	22.84	22.80	24.00
20	QPSK	1	99	22.65	22.75	22.88	22.82	22.76	24.00
20	QPSK	50	0	22.15	22.13	22.19	22.11	22.08	23.00
20	QPSK	50	24	21.81	21.92	22.07	21.90	21.86	23.00
20	QPSK	50	50	21.73	21.90	21.99	21.84	21.83	23.00
20	QPSK	100	0	21.83	21.99	22.11	22.02	21.92	23.00
20	16QAM	1	0	21.77	21.87	22.02	21.96	21.77	23.00
20	16QAM	1	49	21.97	22.10	22.17	22.02	22.00	23.00
20	16QAM	1	99	21.89	21.91	22.09	21.94	21.85	23.00
20	16QAM	50	0	20.84	20.96	21.10	21.01	20.93	22.00
20	16QAM	50	24	20.95	21.06	21.17	21.12	20.97	22.00
20	16QAM	50	50	20.82	20.85	21.03	20.84	20.82	22.00
20	16QAM	100	0	20.92	21.00	21.11	20.93	20.97	22.00
20	64QAM	1	0	20.91	21.06	21.17	21.04	20.96	22.00
20	64QAM	1	49	20.98	21.03	21.15	21.04	20.93	22.00
20	64QAM	1	99	20.87	21.06	21.12	20.96	20.98	22.00
20	64QAM	50	0	19.89	20.06	20.14	19.98	19.97	21.00
20	64QAM	50	24	19.84	19.80	19.98	19.90	19.85	21.00
20	64QAM	50	50	19.76	19.89	20.01	19.87	19.89	21.00
20	64QAM	100	0	19.87	19.95	20.11	20.06	19.92	21.00
20	256QAM	1	0	17.78	17.84	17.99	17.92	17.77	19.00
20	256QAM	1	49	17.87	17.98	18.07	17.99	17.87	19.00
20	256QAM	1	99	17.82	17.78	17.95	17.88	17.83	19.00
20	256QAM	50	0	17.83	17.91	18.02	17.96	17.90	19.00
20	256QAM	50	24	17.74	17.87	17.94	17.87	17.71	19.00
20	256QAM	50	50	17.78	17.78	17.95	17.87	17.73	19.00
20	256QAM	100	0	17.81	17.90	18.03	17.88	17.83	19.00
Channel				39725	40173	40620	41068	41515	24.00
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.94	23.07	23.05	23.02	23.03	24.00
15	QPSK	1	37	22.66	22.82	22.98	22.77	22.73	24.00
15	QPSK	1	74	22.57	22.71	22.81	22.71	22.62	24.00
15	QPSK	36	0	22.13	22.11	22.05	21.96	22.00	23.00
15	QPSK	36	20	21.69	21.85	22.00	21.82	21.71	23.00
15	QPSK	36	39	21.69	21.78	21.92	21.74	21.81	23.00
15	QPSK	75	0	21.79	21.86	21.97	21.89	21.84	23.00
15	16QAM	1	0	21.64	21.82	21.88	21.87	21.67	23.00
15	16QAM	1	37	21.94	22.05	22.03	21.91	21.86	23.00
15	16QAM	1	74	21.80	21.76	22.04	21.81	21.75	23.00
15	16QAM	36	0	20.81	20.95	21.06	20.87	20.86	22.00
15	16QAM	36	20	20.82	21.02	21.02	20.98	20.82	22.00
15	16QAM	36	39	20.80	20.73	20.90	20.73	20.71	22.00
15	16QAM	75	0	20.85	20.94	21.04	20.81	20.95	22.00
15	64QAM	1	0	20.77	20.93	21.07	20.90	20.89	22.00
15	64QAM	1	37	20.87	20.89	21.09	20.92	20.82	22.00
15	64QAM	1	74	20.80	20.95	21.02	20.93	20.92	22.00
15	64QAM	36	0	19.85	19.97	20.10	19.95	19.95	21.00
15	64QAM	36	20	19.78	19.77	19.91	19.85	19.84	21.00
15	64QAM	36	39	19.65	19.84	19.88	19.76	19.82	21.00
15	64QAM	75	0	19.80	19.81	19.99	19.99	19.87	21.00
15	256QAM	1	0	17.74	17.77	17.87	17.78	17.69	19.00
15	256QAM	1	37	17.82	17.91	17.99	17.89	17.80	19.00
15	256QAM	1	74	17.73	17.69	17.93	17.76	17.69	19.00
15	256QAM	36	0	17.75	17.78	17.91	17.83	17.89	19.00
15	256QAM	36	20	17.69	17.83	17.80	17.73	17.65	19.00
15	256QAM	36	39	17.71	17.68	17.90	17.81	17.67	19.00
15	256QAM	75	0	17.67	17.88	17.89	17.86	17.77	19.00
Channel				39700	40160	40620	41080	41540	24.00
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.99	23.00	23.09	23.10	22.99	24.00
10	QPSK	1	25	22.58	22.75	22.85	22.73	22.68	24.00
10	QPSK	1	49	22.52	22.65	22.75	22.77	22.72	24.00
10	QPSK	25	0	22.06	22.06	22.06	22.09	21.97	23.00
10	QPSK	25	12	21.68	21.82	21.95	21.87	21.77	23.00
10	QPSK	25	25	21.62	21.79	21.96	21.82	21.80	23.00
10	QPSK	50	0	21.70	21.88	21.99	21.94	21.81	23.00
10	16QAM	1	0	21.75	21.77	21.90	21.90	21.66	23.00
10	16QAM	1	25	21.85	21.97	22.04	22.01	21.98	23.00

10	16QAM	1	49	21.82	21.89	22.02	21.90	21.73	23.00
10	16QAM	25	0	20.77	20.94	20.96	20.87	20.79	22.00
10	16QAM	25	12	20.87	20.96	21.12	20.98	20.85	22.00
10	16QAM	25	25	20.71	20.80	20.92	20.71	20.75	22.00
10	16QAM	50	0	20.86	20.98	21.04	20.88	20.84	22.00
10	64QAM	1	0	20.83	21.04	21.12	20.97	20.83	22.00
10	64QAM	1	25	20.90	20.95	21.01	20.90	20.84	22.00
10	64QAM	1	49	20.72	20.97	21.02	20.82	20.93	22.00
10	64QAM	25	0	19.82	19.98	19.99	19.94	19.90	21.00
10	64QAM	25	12	19.80	19.77	19.84	19.76	19.78	21.00
10	64QAM	25	25	19.63	19.78	19.90	19.78	19.80	21.00
10	64QAM	50	0	19.81	19.85	19.98	19.94	19.82	21.00
10	256QAM	1	0	17.68	17.82	17.91	17.82	17.73	19.00
10	256QAM	1	25	17.82	17.90	18.04	17.87	17.81	19.00
10	256QAM	1	49	17.76	17.69	17.82	17.79	17.75	19.00
10	256QAM	25	0	17.79	17.88	17.89	17.92	17.77	19.00
10	256QAM	25	12	17.72	17.76	17.84	17.80	17.69	19.00
10	256QAM	25	25	17.75	17.72	17.94	17.83	17.63	19.00
10	256QAM	50	0	17.66	17.76	17.98	17.76	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.99	22.99	23.13	22.98	22.91	24.00
5	QPSK	1	12	22.66	22.81	22.92	22.75	22.71	24.00
5	QPSK	1	24	22.63	22.72	22.76	22.72	22.67	24.00
5	QPSK	12	0	22.11	22.06	22.14	21.99	22.01	23.00
5	QPSK	12	7	21.79	21.88	21.98	21.86	21.83	23.00
5	QPSK	12	13	21.67	21.81	21.85	21.72	21.70	23.00
5	QPSK	25	0	21.73	21.97	22.02	22.00	21.81	23.00
5	16QAM	1	0	21.69	21.83	21.92	21.81	21.68	23.00
5	16QAM	1	12	21.93	22.08	22.09	21.96	21.88	23.00
5	16QAM	1	24	21.82	21.81	22.02	21.86	21.76	23.00
5	16QAM	12	0	20.79	20.92	21.05	20.95	20.85	22.00
5	16QAM	12	7	20.90	21.04	21.11	21.09	20.89	22.00
5	16QAM	12	13	20.69	20.73	20.98	20.75	20.77	22.00
5	16QAM	25	0	20.88	20.88	21.09	20.87	20.95	22.00
5	64QAM	1	0	20.82	21.02	21.09	20.91	20.94	22.00
5	64QAM	1	12	20.94	20.97	21.08	20.91	20.87	22.00
5	64QAM	1	24	20.83	20.99	21.10	20.93	20.93	22.00
5	64QAM	12	0	19.76	19.93	20.09	19.87	19.88	21.00
5	64QAM	12	7	19.75	19.73	19.88	19.76	19.84	21.00
5	64QAM	12	13	19.67	19.76	19.94	19.78	19.76	21.00
5	64QAM	25	0	19.75	19.91	20.10	19.95	19.88	21.00
5	256QAM	1	0	17.75	17.72	17.92	17.82	17.67	19.00
5	256QAM	1	12	17.78	17.96	18.06	17.96	17.86	19.00
5	256QAM	1	24	17.73	17.69	17.94	17.78	17.76	19.00
5	256QAM	12	0	17.71	17.89	18.00	17.90	17.76	19.00
5	256QAM	12	7	17.67	17.76	17.81	17.85	17.58	19.00
5	256QAM	12	13	17.71	17.68	17.82	17.81	17.61	19.00
5	256QAM	25	0	17.73	17.81	17.95	17.81	17.72	19.00

【LTE Band 41__FCC (2496~2690MHz)_Ant 2_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.30	21.25	21.36	21.28	21.25	22.40
20	QPSK	1	49	20.95	20.97	21.12	20.92	20.91	22.40
20	QPSK	1	99	20.91	20.98	21.10	20.89	20.94	22.40
20	QPSK	50	0	21.28	21.26	21.29	21.19	21.17	22.40
20	QPSK	50	24	20.97	20.91	21.15	20.98	20.93	22.40
20	QPSK	50	50	21.02	20.99	21.23	21.09	21.10	22.40
20	QPSK	100	0	21.16	21.15	21.18	21.10	21.13	22.40
20	16QAM	1	0	20.99	20.95	21.15	20.99	20.91	22.40
20	16QAM	1	49	21.00	20.98	21.17	21.05	21.02	22.40
20	16QAM	1	99	20.90	20.89	21.09	20.98	20.93	22.40
20	16QAM	50	0	21.05	21.07	21.20	20.98	20.97	22.40
20	16QAM	50	24	21.05	20.98	21.15	20.93	21.03	22.40
20	16QAM	50	50	21.03	21.09	21.23	21.07	21.09	22.40
20	16QAM	100	0	20.98	20.93	21.14	20.95	20.96	22.40
20	64QAM	1	0	21.08	21.01	21.22	21.10	21.04	22.40
20	64QAM	1	49	21.10	21.02	21.20	21.01	20.95	22.40



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20	64QAM	1	99	21.06	20.91	21.14	20.97	20.90	22.40
20	64QAM	50	0	20.00	19.87	20.09	19.89	19.92	21.00
20	64QAM	50	24	20.10	20.05	20.21	19.99	20.08	21.00
20	64QAM	50	50	19.95	19.93	20.10	19.94	19.87	21.00
20	64QAM	100	0	20.11	20.10	20.24	20.01	20.05	21.00
20	256QAM	1	0	18.09	18.07	18.18	18.01	18.03	19.00
20	256QAM	1	49	18.08	18.04	18.24	18.10	18.05	19.00
20	256QAM	1	99	18.03	18.04	18.18	18.07	17.95	19.00
20	256QAM	50	0	18.02	18.05	18.17	18.06	18.04	19.00
20	256QAM	50	24	18.16	18.07	18.23	18.03	18.04	19.00
20	256QAM	50	50	17.98	18.05	18.16	18.04	18.00	19.00
20	256QAM	100	0	18.04	18.10	18.23	18.12	18.11	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.17	21.20	21.23	21.22	21.13	22.40
15	QPSK	1	37	20.92	20.88	20.98	20.88	20.82	22.40
15	QPSK	1	74	20.82	20.93	21.03	20.88	20.86	22.40
15	QPSK	36	0	21.18	21.14	21.24	21.11	21.12	22.40
15	QPSK	36	20	20.85	20.87	21.01	20.90	20.87	22.40
15	QPSK	36	39	20.93	20.89	21.20	20.98	20.99	22.40
15	QPSK	75	0	21.09	21.12	21.08	20.98	21.06	22.40
15	16QAM	1	0	20.94	20.88	21.10	20.93	20.80	22.40
15	16QAM	1	37	20.92	20.95	21.05	20.94	20.89	22.40
15	16QAM	1	74	20.81	20.87	20.98	20.92	20.85	22.40
15	16QAM	36	0	21.01	21.00	21.13	20.84	20.84	22.40
15	16QAM	36	20	21.01	20.92	21.07	20.88	20.98	22.40
15	16QAM	36	39	20.89	21.03	21.21	21.02	20.99	22.40
15	16QAM	75	0	20.87	20.91	21.00	20.87	20.92	22.40
15	64QAM	1	0	20.98	20.99	21.13	20.98	20.90	22.40
15	64QAM	1	37	21.01	20.94	21.09	20.93	20.94	22.40
15	64QAM	1	74	20.93	20.81	21.06	20.87	20.87	22.40
15	64QAM	36	0	19.87	19.76	19.96	19.74	19.82	21.00
15	64QAM	36	20	20.03	19.98	20.11	19.84	20.01	21.00
15	64QAM	36	39	19.83	19.84	20.01	19.83	19.74	21.00
15	64QAM	75	0	19.96	19.99	20.14	19.89	20.02	21.00
15	256QAM	1	0	17.96	18.01	18.07	17.88	17.92	19.00
15	256QAM	1	37	18.05	17.91	18.13	18.06	18.01	19.00
15	256QAM	1	74	17.97	17.95	18.07	18.00	17.84	19.00
15	256QAM	36	0	17.93	17.95	18.15	17.94	17.93	19.00
15	256QAM	36	20	18.06	18.02	18.22	18.00	18.02	19.00
15	256QAM	36	39	17.94	17.97	18.11	17.95	17.94	19.00
15	256QAM	75	0	17.93	18.06	18.15	18.11	18.02	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.24	21.13	21.35	21.14	21.11	22.40
10	QPSK	1	25	20.86	20.92	21.11	20.87	20.89	22.40
10	QPSK	1	49	20.79	20.97	21.05	20.83	20.89	22.40
10	QPSK	25	0	21.25	21.23	21.18	21.08	21.13	22.40
10	QPSK	25	12	20.91	20.80	21.03	20.88	20.81	22.40
10	QPSK	25	25	20.88	20.92	21.19	20.99	21.09	22.40
10	QPSK	50	0	21.07	21.08	21.09	21.03	20.99	22.40
10	16QAM	1	0	20.85	20.80	21.04	20.93	20.84	22.40
10	16QAM	1	25	20.93	20.91	21.15	20.91	20.99	22.40
10	16QAM	1	49	20.88	20.87	21.01	20.87	20.83	22.40
10	16QAM	25	0	21.01	20.99	21.08	20.93	20.92	22.40
10	16QAM	25	12	20.91	20.94	21.07	20.89	20.90	22.40
10	16QAM	25	25	21.01	20.95	21.20	21.03	21.03	22.40
10	16QAM	50	0	20.92	20.90	21.07	20.86	20.82	22.40
10	64QAM	1	0	21.06	20.98	21.16	20.98	20.93	22.40
10	64QAM	1	25	21.05	20.92	21.13	20.96	20.90	22.40
10	64QAM	1	49	20.98	20.77	21.01	20.88	20.84	22.40
10	64QAM	25	0	19.90	19.80	20.02	19.76	19.84	21.00
10	64QAM	25	12	20.01	20.01	20.14	19.90	20.02	21.00
10	64QAM	25	25	19.93	19.90	20.03	19.83	19.80	21.00
10	64QAM	50	0	19.99	20.02	20.14	19.99	20.02	21.00
10	256QAM	1	0	18.06	18.01	18.16	17.92	18.01	19.00
10	256QAM	1	25	18.01	17.94	18.21	18.09	17.91	19.00
10	256QAM	1	49	17.91	17.98	18.16	17.97	17.86	19.00
10	256QAM	25	0	17.90	18.00	18.13	18.00	17.95	19.00
10	256QAM	25	12	18.06	18.06	18.19	17.98	17.96	19.00
10	256QAM	25	25	17.89	17.97	18.04	17.92	17.98	19.00
10	256QAM	50	0	17.96	18.01	18.21	18.08	17.98	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.18	21.12	21.23	21.25	21.23	22.40



5	QPSK	1	12	20.82	20.91	21.02	20.86	20.77	22.40
5	QPSK	1	24	20.79	20.84	21.08	20.84	20.88	22.40
5	QPSK	12	0	21.24	21.16	21.19	21.15	21.16	22.40
5	QPSK	12	7	20.94	20.82	21.00	20.90	20.84	22.40
5	QPSK	12	13	20.99	20.89	21.10	21.03	20.96	22.40
5	QPSK	25	0	21.08	21.00	21.16	21.05	21.09	22.40
5	16QAM	1	0	20.95	20.86	21.07	20.96	20.81	22.40
5	16QAM	1	12	20.88	20.87	21.14	21.03	20.92	22.40
5	16QAM	1	24	20.78	20.86	21.07	20.89	20.91	22.40
5	16QAM	12	0	21.03	21.01	21.11	20.91	20.95	22.40
5	16QAM	12	7	21.01	20.84	21.10	20.81	20.94	22.40
5	16QAM	12	13	20.89	21.07	21.22	21.02	21.04	22.40
5	16QAM	25	0	20.88	20.86	21.04	20.85	20.93	22.40
5	64QAM	1	0	21.06	20.93	21.12	21.01	20.93	22.40
5	64QAM	1	12	20.99	20.87	21.07	20.96	20.86	22.40
5	64QAM	1	24	20.99	20.81	21.09	20.84	20.80	22.40
5	64QAM	12	0	19.90	19.79	20.04	19.84	19.82	21.00
5	64QAM	12	7	20.06	19.92	20.09	19.84	19.94	21.00
5	64QAM	12	13	19.83	19.84	20.00	19.79	19.79	21.00
5	64QAM	25	0	19.98	20.07	20.22	19.99	19.91	21.00
5	256QAM	1	0	18.06	18.02	18.10	17.87	17.91	19.00
5	256QAM	1	12	18.02	17.91	18.23	18.02	17.93	19.00
5	256QAM	1	24	17.97	17.93	18.10	18.02	17.81	19.00
5	256QAM	12	0	17.91	17.98	18.13	18.05	18.01	19.00
5	256QAM	12	7	18.12	17.99	18.14	17.98	18.03	19.00
5	256QAM	12	13	17.85	17.93	18.10	17.93	17.87	19.00
5	256QAM	25	0	17.94	18.09	18.11	18.05	18.02	19.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 2_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.01	23.11	23.16	23.12	23.05	24.00
20	QPSK	1	49	22.70	22.90	22.99	22.84	22.80	24.00
20	QPSK	1	99	22.65	22.75	22.88	22.82	22.76	24.00
20	QPSK	50	0	22.15	22.13	22.19	22.11	22.08	23.00
20	QPSK	50	24	21.81	21.92	22.07	21.90	21.86	23.00
20	QPSK	50	50	21.73	21.90	21.99	21.84	21.83	23.00
20	QPSK	100	0	21.83	21.99	22.11	22.02	21.92	23.00
20	16QAM	1	0	21.77	21.87	22.02	21.96	21.77	23.00
20	16QAM	1	49	21.97	22.10	22.17	22.02	22.00	23.00
20	16QAM	1	99	21.89	21.91	22.09	21.94	21.85	23.00
20	16QAM	50	0	20.84	20.96	21.10	21.01	20.93	22.00
20	16QAM	50	24	20.95	21.06	21.17	21.12	20.97	22.00
20	16QAM	50	50	20.82	20.85	21.03	20.84	20.82	22.00
20	16QAM	100	0	20.92	21.00	21.11	20.93	20.97	22.00
20	64QAM	1	0	20.91	21.06	21.17	21.04	20.96	22.00
20	64QAM	1	49	20.98	21.03	21.15	21.04	20.93	22.00
20	64QAM	1	99	20.87	21.06	21.12	20.96	20.98	22.00
20	64QAM	50	0	19.89	20.06	20.14	19.98	19.97	21.00
20	64QAM	50	24	19.84	19.80	19.98	19.90	19.85	21.00
20	64QAM	50	50	19.76	19.89	20.01	19.87	19.89	21.00
20	64QAM	100	0	19.87	19.95	20.11	20.06	19.92	21.00
20	256QAM	1	0	17.78	17.84	17.99	17.92	17.77	19.00
20	256QAM	1	49	17.87	17.98	18.07	17.99	17.87	19.00
20	256QAM	1	99	17.82	17.78	17.95	17.88	17.83	19.00
20	256QAM	50	0	17.83	17.91	18.02	17.96	17.90	19.00
20	256QAM	50	24	17.74	17.87	17.94	17.87	17.71	19.00
20	256QAM	50	50	17.78	17.78	17.95	17.87	17.73	19.00
20	256QAM	100	0	17.81	17.90	18.03	17.88	17.83	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.94	23.07	23.05	23.02	23.03	24.00
15	QPSK	1	37	22.66	22.82	22.98	22.77	22.73	24.00
15	QPSK	1	74	22.57	22.71	22.81	22.71	22.62	24.00
15	QPSK	36	0	22.13	22.11	22.05	21.96	22.00	23.00
15	QPSK	36	20	21.69	21.85	22.00	21.82	21.71	23.00
15	QPSK	36	39	21.69	21.78	21.92	21.74	21.81	23.00
15	QPSK	75	0	21.79	21.86	21.97	21.89	21.84	23.00
15	16QAM	1	0	21.64	21.82	21.88	21.87	21.67	23.00



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15	16QAM	1	37	21.94	22.05	22.03	21.91	21.86	23.00
15	16QAM	1	74	21.80	21.76	22.04	21.81	21.75	23.00
15	16QAM	36	0	20.81	20.95	21.06	20.87	20.86	22.00
15	16QAM	36	20	20.82	21.02	21.02	20.98	20.82	22.00
15	16QAM	36	39	20.80	20.73	20.90	20.73	20.71	22.00
15	16QAM	75	0	20.85	20.94	21.04	20.81	20.95	22.00
15	64QAM	1	0	20.77	20.93	21.07	20.90	20.89	22.00
15	64QAM	1	37	20.87	20.89	21.09	20.92	20.82	22.00
15	64QAM	1	74	20.80	20.95	21.02	20.93	20.92	22.00
15	64QAM	36	0	19.85	19.97	20.10	19.95	19.95	21.00
15	64QAM	36	20	19.78	19.77	19.91	19.85	19.84	21.00
15	64QAM	36	39	19.65	19.84	19.88	19.76	19.82	21.00
15	64QAM	75	0	19.80	19.81	19.99	19.99	19.87	21.00
15	256QAM	1	0	17.74	17.77	17.87	17.78	17.69	19.00
15	256QAM	1	37	17.82	17.91	17.99	17.89	17.80	19.00
15	256QAM	1	74	17.73	17.69	17.93	17.76	17.69	19.00
15	256QAM	36	0	17.75	17.78	17.91	17.83	17.89	19.00
15	256QAM	36	20	17.69	17.83	17.80	17.73	17.65	19.00
15	256QAM	36	39	17.71	17.68	17.90	17.81	17.67	19.00
15	256QAM	75	0	17.67	17.88	17.89	17.86	17.77	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.99	23.00	23.09	23.10	22.99	24.00
10	QPSK	1	25	22.58	22.75	22.85	22.73	22.68	24.00
10	QPSK	1	49	22.52	22.65	22.75	22.77	22.72	24.00
10	QPSK	25	0	22.06	22.06	22.06	22.09	21.97	23.00
10	QPSK	25	12	21.68	21.82	21.95	21.87	21.77	23.00
10	QPSK	25	25	21.62	21.79	21.96	21.82	21.80	23.00
10	QPSK	50	0	21.70	21.88	21.99	21.94	21.81	23.00
10	16QAM	1	0	21.75	21.77	21.90	21.90	21.66	23.00
10	16QAM	1	25	21.85	21.97	22.04	22.01	21.98	23.00
10	16QAM	1	49	21.82	21.89	22.02	21.90	21.73	23.00
10	16QAM	25	0	20.77	20.94	20.96	20.87	20.79	22.00
10	16QAM	25	12	20.87	20.96	21.12	20.98	20.85	22.00
10	16QAM	25	25	20.71	20.80	20.92	20.71	20.75	22.00
10	16QAM	50	0	20.86	20.98	21.04	20.88	20.84	22.00
10	64QAM	1	0	20.83	21.04	21.12	20.97	20.83	22.00
10	64QAM	1	25	20.90	20.95	21.01	20.90	20.84	22.00
10	64QAM	1	49	20.72	20.97	21.02	20.82	20.93	22.00
10	64QAM	25	0	19.82	19.98	19.99	19.94	19.90	21.00
10	64QAM	25	12	19.80	19.77	19.84	19.76	19.78	21.00
10	64QAM	25	25	19.63	19.78	19.90	19.78	19.80	21.00
10	64QAM	50	0	19.81	19.85	19.98	19.94	19.82	21.00
10	256QAM	1	0	17.68	17.82	17.91	17.82	17.73	19.00
10	256QAM	1	25	17.82	17.90	18.04	17.87	17.81	19.00
10	256QAM	1	49	17.76	17.69	17.82	17.79	17.75	19.00
10	256QAM	25	0	17.79	17.88	17.89	17.92	17.77	19.00
10	256QAM	25	12	17.72	17.76	17.84	17.80	17.69	19.00
10	256QAM	25	25	17.75	17.72	17.94	17.83	17.63	19.00
10	256QAM	50	0	17.66	17.76	17.98	17.76	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.99	22.99	23.13	22.98	22.91	24.00
5	QPSK	1	12	22.66	22.81	22.92	22.75	22.71	24.00
5	QPSK	1	24	22.63	22.72	22.76	22.72	22.67	24.00
5	QPSK	12	0	22.11	22.06	22.14	21.99	22.01	23.00
5	QPSK	12	7	21.79	21.88	21.98	21.86	21.83	23.00
5	QPSK	12	13	21.67	21.81	21.85	21.72	21.70	23.00
5	QPSK	25	0	21.73	21.97	22.02	22.00	21.81	23.00
5	16QAM	1	0	21.69	21.83	21.92	21.81	21.68	23.00
5	16QAM	1	12	21.93	22.08	22.09	21.96	21.88	23.00
5	16QAM	1	24	21.82	21.81	22.02	21.86	21.76	23.00
5	16QAM	12	0	20.79	20.92	21.05	20.95	20.85	22.00
5	16QAM	12	7	20.90	21.04	21.11	21.09	20.89	22.00
5	16QAM	12	13	20.69	20.73	20.98	20.75	20.77	22.00
5	16QAM	25	0	20.88	20.88	21.09	20.87	20.95	22.00
5	64QAM	1	0	20.82	21.02	21.09	20.91	20.94	22.00
5	64QAM	1	12	20.94	20.97	21.08	20.91	20.87	22.00
5	64QAM	1	24	20.83	20.99	21.10	20.93	20.93	22.00
5	64QAM	12	0	19.76	19.93	20.09	19.87	19.88	21.00
5	64QAM	12	7	19.75	19.73	19.88	19.76	19.84	21.00
5	64QAM	12	13	19.67	19.76	19.94	19.78	19.76	21.00
5	64QAM	25	0	19.75	19.91	20.10	19.95	19.88	21.00
5	256QAM	1	0	17.75	17.72	17.92	17.82	17.67	19.00
5	256QAM	1	12	17.78	17.96	18.06	17.96	17.86	19.00
5	256QAM	1	24	17.73	17.69	17.94	17.78	17.76	19.00



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5	256QAM	12	0	17.71	17.89	18.00	17.90	17.76	19.00
5	256QAM	12	7	17.67	17.76	17.81	17.85	17.58	19.00
5	256QAM	12	13	17.71	17.68	17.82	17.81	17.61	19.00
5	256QAM	25	0	17.73	17.81	17.95	17.81	17.72	19.00

【LTE Band 41__FCC (2496~2690MHz)_Ant 2_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	14.21	14.21	14.24	14.19	14.18	15.70
20	QPSK	1	49	14.10	14.08	14.10	14.09	14.09	15.70
20	QPSK	1	99	14.08	14.11	14.11	14.13	14.09	15.70
20	QPSK	50	0	14.13	14.15	14.19	14.17	14.15	15.70
20	QPSK	50	24	14.10	14.01	14.12	14.10	14.11	15.70
20	QPSK	50	50	14.10	14.07	14.10	14.10	14.12	15.70
20	QPSK	100	0	14.17	14.12	14.18	14.07	14.11	15.70
20	16QAM	1	0	14.12	14.04	14.17	14.16	14.07	15.70
20	16QAM	1	49	14.17	14.10	14.15	14.15	14.04	15.70
20	16QAM	1	99	14.15	14.08	14.18	14.18	14.08	15.70
20	16QAM	50	0	14.08	14.07	14.18	14.06	14.09	15.70
20	16QAM	50	24	14.07	14.01	14.11	14.15	14.08	15.70
20	16QAM	50	50	14.09	14.06	14.11	14.09	14.03	15.70
20	16QAM	100	0	14.07	14.07	14.14	14.15	14.08	15.70
20	64QAM	1	0	14.14	14.03	14.12	14.07	14.04	15.70
20	64QAM	1	49	14.17	14.10	14.11	14.17	14.10	15.70
20	64QAM	1	99	14.06	14.06	14.10	14.12	14.12	15.70
20	64QAM	50	0	14.09	14.11	14.17	14.15	14.08	15.70
20	64QAM	50	24	14.09	14.10	14.11	14.13	14.04	15.70
20	64QAM	50	50	14.13	14.00	14.19	14.13	14.11	15.70
20	64QAM	100	0	14.12	14.09	14.19	14.17	14.11	15.70
20	256QAM	1	0	14.11	14.07	14.16	14.16	14.10	15.70
20	256QAM	1	49	14.17	14.08	14.09	14.09	14.04	15.70
20	256QAM	1	99	14.12	14.08	14.12	14.07	14.12	15.70
20	256QAM	50	0	14.09	14.00	14.19	14.13	14.10	15.70
20	256QAM	50	24	14.11	14.08	14.10	14.15	14.03	15.70
20	256QAM	50	50	14.12	14.06	14.16	14.06	14.10	15.70
20	256QAM	100	0	14.08	14.09	14.13	14.16	14.07	15.70
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	14.07	14.03	14.11	14.11	14.07	15.70
15	QPSK	1	37	14.16	13.93	14.11	14.07	13.96	15.70
15	QPSK	1	74	13.94	13.97	14.17	14.00	14.03	15.70
15	QPSK	36	0	14.11	13.99	14.13	14.01	13.95	15.70
15	QPSK	36	20	14.12	13.89	14.07	14.05	14.11	15.70
15	QPSK	36	39	14.07	14.04	14.02	14.03	14.03	15.70
15	QPSK	75	0	14.06	14.02	14.16	13.99	14.08	15.70
15	16QAM	1	0	14.05	13.91	14.15	14.05	13.98	15.70
15	16QAM	1	37	14.11	13.98	14.09	14.13	13.93	15.70
15	16QAM	1	74	14.04	14.01	14.04	14.14	14.02	15.70
15	16QAM	36	0	13.95	14.06	14.12	13.92	14.04	15.70
15	16QAM	36	20	13.92	13.99	13.98	14.05	14.03	15.70
15	16QAM	36	39	13.98	14.03	13.96	13.95	14.02	15.70
15	16QAM	75	0	13.95	14.04	14.06	14.00	13.93	15.70
15	64QAM	1	0	14.12	13.98	14.03	14.01	13.96	15.70
15	64QAM	1	37	14.16	14.06	14.09	14.16	13.96	15.70
15	64QAM	1	74	13.94	13.96	14.00	14.09	14.03	15.70
15	64QAM	36	0	13.98	14.03	14.13	14.10	14.03	15.70
15	64QAM	36	20	13.97	14.02	14.02	14.08	14.02	15.70
15	64QAM	36	39	14.02	13.93	14.17	14.06	14.04	15.70
15	64QAM	75	0	13.97	14.00	14.18	14.02	14.05	15.70
15	256QAM	1	0	14.04	14.02	14.14	14.09	14.07	15.70
15	256QAM	1	37	14.12	14.05	14.06	14.03	13.94	15.70
15	256QAM	1	74	13.99	13.97	14.08	14.04	14.07	15.70
15	256QAM	36	0	14.07	13.94	14.06	14.03	13.97	15.70
15	256QAM	36	20	14.01	13.97	14.01	14.02	13.93	15.70
15	256QAM	36	39	14.09	13.98	14.09	13.93	14.06	15.70
15	256QAM	75	0	13.99	13.96	14.03	14.14	13.96	15.70
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	14.17	14.08	14.22	14.09	14.03	15.70



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10	QPSK	1	25	14.15	13.99	14.08	13.95	14.06	15.70
10	QPSK	1	49	14.04	13.98	14.17	14.06	14.03	15.70
10	QPSK	25	0	14.07	13.91	14.04	13.96	13.94	15.70
10	QPSK	25	12	14.11	13.98	14.09	14.01	14.08	15.70
10	QPSK	25	25	13.97	13.99	14.06	14.14	13.99	15.70
10	QPSK	50	0	14.15	14.01	14.18	14.02	14.04	15.70
10	16QAM	1	0	14.07	13.98	14.08	14.04	13.98	15.70
10	16QAM	1	25	14.09	14.01	14.00	14.01	13.98	15.70
10	16QAM	1	49	14.12	14.00	14.03	14.08	13.99	15.70
10	16QAM	25	0	14.06	13.99	14.07	14.02	13.95	15.70
10	16QAM	25	12	13.95	13.94	14.06	14.13	14.01	15.70
10	16QAM	25	25	14.08	13.93	13.99	14.01	14.02	15.70
10	16QAM	50	0	14.03	13.99	14.13	14.12	14.03	15.70
10	64QAM	1	0	14.08	13.97	14.00	14.06	13.96	15.70
10	64QAM	1	25	14.08	13.96	14.01	14.16	13.97	15.70
10	64QAM	1	49	13.97	13.96	14.05	14.03	14.10	15.70
10	64QAM	25	0	14.06	14.01	14.11	14.00	14.02	15.70
10	64QAM	25	12	14.02	14.03	14.06	14.00	13.95	15.70
10	64QAM	25	25	14.11	13.85	14.09	14.07	14.05	15.70
10	64QAM	50	0	14.00	13.96	14.05	14.13	14.10	15.70
10	256QAM	1	0	14.02	13.94	14.12	14.12	14.07	15.70
10	256QAM	1	25	14.05	14.00	14.01	14.03	14.03	15.70
10	256QAM	1	49	14.10	13.96	13.98	14.02	14.05	15.70
10	256QAM	25	0	13.98	13.85	14.15	14.01	14.01	15.70
10	256QAM	25	12	14.10	14.03	13.99	14.04	13.96	15.70
10	256QAM	25	25	14.09	14.05	14.09	13.91	14.01	15.70
10	256QAM	50	0	14.00	14.07	14.00	14.03	14.04	15.70
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	14.07	14.03	14.13	14.19	14.13	15.70
5	QPSK	1	12	14.14	14.04	14.11	13.94	13.98	15.70
5	QPSK	1	24	14.05	14.06	14.09	14.11	14.04	15.70
5	QPSK	12	0	14.05	13.96	14.18	13.96	13.93	15.70
5	QPSK	12	7	14.15	13.88	14.00	14.06	14.10	15.70
5	QPSK	12	13	14.03	13.97	14.05	14.08	13.97	15.70
5	QPSK	25	0	14.09	14.09	14.11	13.98	14.10	15.70
5	16QAM	1	0	14.03	13.89	14.16	14.14	14.02	15.70
5	16QAM	1	12	14.09	14.07	14.10	14.05	14.01	15.70
5	16QAM	1	24	14.05	13.95	14.14	14.13	14.01	15.70
5	16QAM	12	0	14.07	13.97	14.13	13.96	14.05	15.70
5	16QAM	12	7	13.93	13.96	14.04	14.05	14.06	15.70
5	16QAM	12	13	14.04	13.95	13.97	13.95	13.96	15.70
5	16QAM	25	0	14.02	13.94	14.12	14.02	13.93	15.70
5	64QAM	1	0	14.02	13.96	14.05	13.92	13.93	15.70
5	64QAM	1	12	14.10	14.07	14.08	14.08	14.04	15.70
5	64QAM	1	24	13.95	13.99	13.96	14.04	14.05	15.70
5	64QAM	12	0	14.04	14.03	14.11	14.07	13.95	15.70
5	64QAM	12	7	14.05	14.01	14.04	14.07	13.95	15.70
5	64QAM	12	13	14.05	13.96	14.05	14.10	14.10	15.70
5	64QAM	25	0	14.06	14.05	14.06	14.09	14.04	15.70
5	256QAM	1	0	14.08	13.93	14.08	14.02	14.04	15.70
5	256QAM	1	12	14.10	13.98	14.07	14.04	13.93	15.70
5	256QAM	1	24	14.10	13.97	14.01	13.97	13.99	15.70
5	256QAM	12	0	13.97	13.91	14.07	14.05	13.96	15.70
5	256QAM	12	7	14.04	13.94	13.96	14.02	13.92	15.70
5	256QAM	12	13	14.11	13.91	14.02	13.93	13.95	15.70
5	256QAM	25	0	13.97	14.00	14.01	14.07	13.98	15.70

【LTE Band 41_FCC (2496~2690MHz)_Ant 2_DSI 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.30	21.25	21.36	21.28	21.30	22.00
20	QPSK	1	49	20.95	20.97	21.12	20.92	20.95	22.00
20	QPSK	1	99	20.91	20.98	21.10	20.89	20.91	22.00
20	QPSK	50	0	21.28	21.26	21.29	21.19	21.28	22.00
20	QPSK	50	24	20.97	20.91	21.15	20.98	20.97	22.00
20	QPSK	50	50	21.02	20.99	21.23	21.09	21.02	22.00
20	QPSK	100	0	21.16	21.15	21.18	21.10	21.16	22.00
20	16QAM	1	0	20.99	20.95	21.15	20.99	20.99	22.00



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20	16QAM	1	49	21.00	20.98	21.17	21.05	21.00	22.00
20	16QAM	1	99	20.90	20.89	21.09	20.98	20.90	22.00
20	16QAM	50	0	21.05	21.07	21.20	20.98	21.05	22.00
20	16QAM	50	24	21.05	20.98	21.15	20.93	21.05	22.00
20	16QAM	50	50	21.03	21.09	21.23	21.07	21.03	22.00
20	16QAM	100	0	20.98	20.93	21.14	20.95	20.98	22.00
20	64QAM	1	0	21.08	21.01	21.22	21.10	21.08	22.00
20	64QAM	1	49	21.10	21.02	21.20	21.01	21.10	22.00
20	64QAM	1	99	21.06	20.91	21.14	20.97	21.06	22.00
20	64QAM	50	0	20.00	19.87	20.09	19.89	20.00	21.00
20	64QAM	50	24	20.10	20.05	20.21	19.99	20.10	21.00
20	64QAM	50	50	19.95	19.93	20.10	19.94	19.95	21.00
20	64QAM	100	0	20.11	20.10	20.24	20.01	20.11	21.00
20	256QAM	1	0	18.09	18.07	18.18	18.01	18.09	19.00
20	256QAM	1	49	18.08	18.04	18.24	18.10	18.08	19.00
20	256QAM	1	99	18.03	18.04	18.18	18.07	18.03	19.00
20	256QAM	50	0	18.02	18.05	18.17	18.06	18.02	19.00
20	256QAM	50	24	18.16	18.07	18.23	18.03	18.16	19.00
20	256QAM	50	50	17.98	18.05	18.16	18.04	17.98	19.00
20	256QAM	100	0	18.04	18.10	18.23	18.12	18.04	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.17	21.20	21.23	21.22	21.17	22.00
15	QPSK	1	37	20.92	20.88	20.98	20.88	20.92	22.00
15	QPSK	1	74	20.82	20.93	21.03	20.88	20.82	22.00
15	QPSK	36	0	21.18	21.14	21.24	21.11	21.18	22.00
15	QPSK	36	20	20.85	20.87	21.01	20.90	20.85	22.00
15	QPSK	36	39	20.93	20.89	21.20	20.98	20.93	22.00
15	QPSK	75	0	21.09	21.12	21.08	20.98	21.09	22.00
15	16QAM	1	0	20.94	20.88	21.10	20.93	20.94	22.00
15	16QAM	1	37	20.92	20.95	21.05	20.94	20.92	22.00
15	16QAM	1	74	20.81	20.87	20.98	20.92	20.81	22.00
15	16QAM	36	0	21.01	21.00	21.13	20.84	21.01	22.00
15	16QAM	36	20	21.01	20.92	21.07	20.88	21.01	22.00
15	16QAM	36	39	20.89	21.03	21.21	21.02	20.89	22.00
15	16QAM	75	0	20.87	20.91	21.00	20.87	20.87	22.00
15	64QAM	1	0	20.98	20.99	21.13	20.98	20.98	22.00
15	64QAM	1	37	21.01	20.94	21.09	20.93	21.01	22.00
15	64QAM	1	74	20.93	20.81	21.06	20.87	20.93	22.00
15	64QAM	36	0	19.87	19.76	19.96	19.74	19.87	21.00
15	64QAM	36	20	20.03	19.98	20.11	19.84	20.03	21.00
15	64QAM	36	39	19.83	19.84	20.01	19.83	19.83	21.00
15	64QAM	75	0	19.96	19.99	20.14	19.89	19.96	21.00
15	256QAM	1	0	17.96	18.01	18.07	17.88	17.96	19.00
15	256QAM	1	37	18.05	17.91	18.13	18.06	18.05	19.00
15	256QAM	1	74	17.97	17.95	18.07	18.00	17.97	19.00
15	256QAM	36	0	17.93	17.95	18.15	17.94	17.93	19.00
15	256QAM	36	20	18.06	18.02	18.22	18.00	18.06	19.00
15	256QAM	36	39	17.94	17.97	18.11	17.95	17.94	19.00
15	256QAM	75	0	17.93	18.06	18.15	18.11	17.93	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.24	21.13	21.35	21.14	21.24	22.00
10	QPSK	1	25	20.86	20.92	21.11	20.87	20.86	22.00
10	QPSK	1	49	20.79	20.97	21.05	20.83	20.79	22.00
10	QPSK	25	0	21.25	21.23	21.18	21.08	21.25	22.00
10	QPSK	25	12	20.91	20.80	21.03	20.88	20.91	22.00
10	QPSK	25	25	20.88	20.92	21.19	20.99	20.88	22.00
10	QPSK	50	0	21.07	21.08	21.09	21.03	21.07	22.00
10	16QAM	1	0	20.85	20.80	21.04	20.93	20.85	22.00
10	16QAM	1	25	20.93	20.91	21.15	20.91	20.93	22.00
10	16QAM	1	49	20.88	20.87	21.01	20.87	20.88	22.00
10	16QAM	25	0	21.01	20.99	21.08	20.93	21.01	22.00
10	16QAM	25	12	20.91	20.94	21.07	20.89	20.91	22.00
10	16QAM	25	25	21.01	20.95	21.20	21.03	21.01	22.00
10	16QAM	50	0	20.92	20.90	21.07	20.86	20.92	22.00
10	64QAM	1	0	21.06	20.98	21.16	20.98	21.06	22.00
10	64QAM	1	25	21.05	20.92	21.13	20.96	21.05	22.00
10	64QAM	1	49	20.98	20.77	21.01	20.88	20.98	22.00
10	64QAM	25	0	19.90	19.80	20.02	19.76	19.90	21.00
10	64QAM	25	12	20.01	20.01	20.14	19.90	20.01	21.00
10	64QAM	25	25	19.93	19.90	20.03	19.83	19.93	21.00
10	64QAM	50	0	19.99	20.02	20.14	19.99	19.99	21.00
10	256QAM	1	0	18.06	18.01	18.16	17.92	18.06	19.00
10	256QAM	1	25	18.01	17.94	18.21	18.09	18.01	19.00
10	256QAM	1	49	17.91	17.98	18.16	17.97	17.91	19.00



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10	256QAM	25	0	17.90	18.00	18.13	18.00	17.90	19.00
10	256QAM	25	12	18.06	18.06	18.19	17.98	18.06	19.00
10	256QAM	25	25	17.89	17.97	18.04	17.92	17.89	19.00
10	256QAM	50	0	17.96	18.01	18.21	18.08	17.96	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.18	21.12	21.23	21.25	21.18	22.00
5	QPSK	1	12	20.82	20.91	21.02	20.86	20.82	22.00
5	QPSK	1	24	20.79	20.84	21.08	20.84	20.79	22.00
5	QPSK	12	0	21.24	21.16	21.19	21.15	21.24	22.00
5	QPSK	12	7	20.94	20.82	21.00	20.90	20.94	22.00
5	QPSK	12	13	20.99	20.89	21.10	21.03	20.99	22.00
5	QPSK	25	0	21.08	21.00	21.16	21.05	21.08	22.00
5	16QAM	1	0	20.95	20.86	21.07	20.96	20.95	22.00
5	16QAM	1	12	20.88	20.87	21.14	21.03	20.88	22.00
5	16QAM	1	24	20.78	20.86	21.07	20.89	20.78	22.00
5	16QAM	12	0	21.03	21.01	21.11	20.91	21.03	22.00
5	16QAM	12	7	21.01	20.84	21.10	20.81	21.01	22.00
5	16QAM	12	13	20.89	21.07	21.22	21.02	20.89	22.00
5	16QAM	25	0	20.88	20.86	21.04	20.85	20.88	22.00
5	64QAM	1	0	21.06	20.93	21.12	21.01	21.06	22.00
5	64QAM	1	12	20.99	20.87	21.07	20.96	20.99	22.00
5	64QAM	1	24	20.99	20.81	21.09	20.84	20.99	22.00
5	64QAM	12	0	19.90	19.79	20.04	19.84	19.90	21.00
5	64QAM	12	7	20.06	19.92	20.09	19.84	20.06	21.00
5	64QAM	12	13	19.83	19.84	20.00	19.79	19.83	21.00
5	64QAM	25	0	19.98	20.07	20.22	19.99	19.98	21.00
5	256QAM	1	0	18.06	18.02	18.10	17.87	18.06	19.00
5	256QAM	1	12	18.02	17.91	18.23	18.02	18.02	19.00
5	256QAM	1	24	17.97	17.93	18.10	18.02	17.97	19.00
5	256QAM	12	0	17.91	17.98	18.13	18.05	17.91	19.00
5	256QAM	12	7	18.12	17.99	18.14	17.98	18.12	19.00
5	256QAM	12	13	17.85	17.93	18.10	17.93	17.85	19.00
5	256QAM	25	0	17.94	18.09	18.11	18.05	17.94	19.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 2_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.01	23.11	23.16	23.12	23.05	24.00
20	QPSK	1	49	22.70	22.90	22.99	22.84	22.80	24.00
20	QPSK	1	99	22.65	22.75	22.88	22.82	22.76	24.00
20	QPSK	50	0	22.15	22.13	22.19	22.11	22.08	23.00
20	QPSK	50	24	21.81	21.92	22.07	21.90	21.86	23.00
20	QPSK	50	50	21.73	21.90	21.99	21.84	21.83	23.00
20	QPSK	100	0	21.83	21.99	22.11	22.02	21.92	23.00
20	16QAM	1	0	21.77	21.87	22.02	21.96	21.77	23.00
20	16QAM	1	49	21.97	22.10	22.17	22.02	22.00	23.00
20	16QAM	1	99	21.89	21.91	22.09	21.94	21.85	23.00
20	16QAM	50	0	20.84	20.96	21.10	21.01	20.93	22.00
20	16QAM	50	24	20.95	21.06	21.17	21.12	20.97	22.00
20	16QAM	50	50	20.82	20.85	21.03	20.84	20.82	22.00
20	16QAM	100	0	20.92	21.00	21.11	20.93	20.97	22.00
20	64QAM	1	0	20.91	21.06	21.17	21.04	20.96	22.00
20	64QAM	1	49	20.98	21.03	21.15	21.04	20.93	22.00
20	64QAM	1	99	20.87	21.06	21.12	20.96	20.98	22.00
20	64QAM	50	0	19.89	20.06	20.14	19.98	19.97	21.00
20	64QAM	50	24	19.84	19.80	19.98	19.90	19.85	21.00
20	64QAM	50	50	19.76	19.89	20.01	19.87	19.89	21.00
20	64QAM	100	0	19.87	19.95	20.11	20.06	19.92	21.00
20	256QAM	1	0	17.78	17.84	17.99	17.92	17.77	19.00
20	256QAM	1	49	17.87	17.98	18.07	17.99	17.87	19.00
20	256QAM	1	99	17.82	17.78	17.95	17.88	17.83	19.00
20	256QAM	50	0	17.83	17.91	18.02	17.96	17.90	19.00
20	256QAM	50	24	17.74	17.87	17.94	17.87	17.71	19.00
20	256QAM	50	50	17.78	17.78	17.95	17.87	17.73	19.00
20	256QAM	100	0	17.81	17.90	18.03	17.88	17.83	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.94	23.07	23.05	23.02	23.03	24.00



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15	QPSK	1	37	22.66	22.82	22.98	22.77	22.73	24.00
15	QPSK	1	74	22.57	22.71	22.81	22.71	22.62	24.00
15	QPSK	36	0	22.13	22.11	22.05	21.96	22.00	23.00
15	QPSK	36	20	21.69	21.85	22.00	21.82	21.71	23.00
15	QPSK	36	39	21.69	21.78	21.92	21.74	21.81	23.00
15	QPSK	75	0	21.79	21.86	21.97	21.89	21.84	23.00
15	16QAM	1	0	21.64	21.82	21.88	21.87	21.67	23.00
15	16QAM	1	37	21.94	22.05	22.03	21.91	21.86	23.00
15	16QAM	1	74	21.80	21.76	22.04	21.81	21.75	23.00
15	16QAM	36	0	20.81	20.95	21.06	20.87	20.86	22.00
15	16QAM	36	20	20.82	21.02	21.02	20.98	20.82	22.00
15	16QAM	36	39	20.80	20.73	20.90	20.73	20.71	22.00
15	16QAM	75	0	20.85	20.94	21.04	20.81	20.95	22.00
15	64QAM	1	0	20.77	20.93	21.07	20.90	20.89	22.00
15	64QAM	1	37	20.87	20.89	21.09	20.92	20.82	22.00
15	64QAM	1	74	20.80	20.95	21.02	20.93	20.92	22.00
15	64QAM	36	0	19.85	19.97	20.10	19.95	19.95	21.00
15	64QAM	36	20	19.78	19.77	19.91	19.85	19.84	21.00
15	64QAM	36	39	19.65	19.84	19.88	19.76	19.82	21.00
15	64QAM	75	0	19.80	19.81	19.99	19.99	19.87	21.00
15	256QAM	1	0	17.74	17.77	17.87	17.78	17.69	19.00
15	256QAM	1	37	17.82	17.91	17.99	17.89	17.80	19.00
15	256QAM	1	74	17.73	17.69	17.93	17.76	17.69	19.00
15	256QAM	36	0	17.75	17.78	17.91	17.83	17.89	19.00
15	256QAM	36	20	17.69	17.83	17.80	17.73	17.65	19.00
15	256QAM	36	39	17.71	17.68	17.90	17.81	17.67	19.00
15	256QAM	75	0	17.67	17.88	17.89	17.86	17.77	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.99	23.00	23.09	23.10	22.99	24.00
10	QPSK	1	25	22.58	22.75	22.85	22.73	22.68	24.00
10	QPSK	1	49	22.52	22.65	22.75	22.77	22.72	24.00
10	QPSK	25	0	22.06	22.06	22.06	22.09	21.97	23.00
10	QPSK	25	12	21.68	21.82	21.95	21.87	21.77	23.00
10	QPSK	25	25	21.62	21.79	21.96	21.82	21.80	23.00
10	QPSK	50	0	21.70	21.88	21.99	21.94	21.81	23.00
10	16QAM	1	0	21.75	21.77	21.90	21.90	21.66	23.00
10	16QAM	1	25	21.85	21.97	22.04	22.01	21.98	23.00
10	16QAM	1	49	21.82	21.89	22.02	21.90	21.73	23.00
10	16QAM	25	0	20.77	20.94	20.96	20.87	20.79	22.00
10	16QAM	25	12	20.87	20.96	21.12	20.98	20.85	22.00
10	16QAM	25	25	20.71	20.80	20.92	20.71	20.75	22.00
10	16QAM	50	0	20.86	20.98	21.04	20.88	20.84	22.00
10	64QAM	1	0	20.83	21.04	21.12	20.97	20.83	22.00
10	64QAM	1	25	20.90	20.95	21.01	20.90	20.84	22.00
10	64QAM	1	49	20.72	20.97	21.02	20.82	20.93	22.00
10	64QAM	25	0	19.82	19.98	19.99	19.94	19.90	21.00
10	64QAM	25	12	19.80	19.77	19.84	19.76	19.78	21.00
10	64QAM	25	25	19.63	19.78	19.90	19.78	19.80	21.00
10	64QAM	50	0	19.81	19.85	19.98	19.94	19.82	21.00
10	256QAM	1	0	17.68	17.82	17.91	17.82	17.73	19.00
10	256QAM	1	25	17.82	17.90	18.04	17.87	17.81	19.00
10	256QAM	1	49	17.76	17.69	17.82	17.79	17.75	19.00
10	256QAM	25	0	17.79	17.88	17.89	17.92	17.77	19.00
10	256QAM	25	12	17.72	17.76	17.84	17.80	17.69	19.00
10	256QAM	25	25	17.75	17.72	17.94	17.83	17.63	19.00
10	256QAM	50	0	17.66	17.76	17.98	17.76	17.69	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.99	22.99	23.13	22.98	22.91	24.00
5	QPSK	1	12	22.66	22.81	22.92	22.75	22.71	24.00
5	QPSK	1	24	22.63	22.72	22.76	22.72	22.67	24.00
5	QPSK	12	0	22.11	22.06	22.14	21.99	22.01	23.00
5	QPSK	12	7	21.79	21.88	21.98	21.86	21.83	23.00
5	QPSK	12	13	21.67	21.81	21.85	21.72	21.70	23.00
5	QPSK	25	0	21.73	21.97	22.02	22.00	21.81	23.00
5	16QAM	1	0	21.69	21.83	21.92	21.81	21.68	23.00
5	16QAM	1	12	21.93	22.08	22.09	21.96	21.88	23.00
5	16QAM	1	24	21.82	21.81	22.02	21.86	21.76	23.00
5	16QAM	12	0	20.79	20.92	21.05	20.95	20.85	22.00
5	16QAM	12	7	20.90	21.04	21.11	21.09	20.89	22.00
5	16QAM	12	13	20.69	20.73	20.98	20.75	20.77	22.00
5	16QAM	25	0	20.88	20.88	21.09	20.87	20.95	22.00
5	64QAM	1	0	20.82	21.02	21.09	20.91	20.94	22.00
5	64QAM	1	12	20.94	20.97	21.08	20.91	20.87	22.00
5	64QAM	1	24	20.83	20.99	21.10	20.93	20.93	22.00



5	64QAM	12	0	19.76	19.93	20.09	19.87	19.88	21.00
5	64QAM	12	7	19.75	19.73	19.88	19.76	19.84	21.00
5	64QAM	12	13	19.67	19.76	19.94	19.78	19.76	21.00
5	64QAM	25	0	19.75	19.91	20.10	19.95	19.88	21.00
5	256QAM	1	0	17.75	17.72	17.92	17.82	17.67	19.00
5	256QAM	1	12	17.78	17.96	18.06	17.96	17.86	19.00
5	256QAM	1	24	17.73	17.69	17.94	17.78	17.76	19.00
5	256QAM	12	0	17.71	17.89	18.00	17.90	17.76	19.00
5	256QAM	12	7	17.67	17.76	17.81	17.85	17.58	19.00
5	256QAM	12	13	17.71	17.68	17.82	17.81	17.61	19.00
5	256QAM	25	0	17.73	17.81	17.95	17.81	17.72	19.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 2_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.08	26.15	26.20	26.05	26.08	27.00
20	QPSK	1	49	25.82	25.80	25.99	25.80	25.75	27.00
20	QPSK	1	99	25.59	25.73	25.83	25.62	25.69	27.00
20	QPSK	50	0	24.98	24.99	25.04	25.01	24.91	26.00
20	QPSK	50	24	24.80	24.88	24.96	24.68	24.82	26.00
20	QPSK	50	50	24.87	24.91	25.03	24.77	24.80	26.00
20	QPSK	100	0	24.80	24.87	25.01	24.79	24.86	26.00
20	16QAM	1	0	24.88	24.94	25.09	24.91	24.90	26.00
20	16QAM	1	49	24.78	24.94	25.00	24.80	24.86	26.00
20	16QAM	1	99	24.86	24.91	25.09	24.80	24.87	26.00
20	16QAM	50	0	23.82	23.84	23.97	23.78	23.74	25.00
20	16QAM	50	24	23.90	23.84	24.03	23.76	23.89	25.00
20	16QAM	50	50	23.82	23.85	24.03	23.83	23.89	25.00
20	16QAM	100	0	23.69	23.75	23.92	23.69	23.73	25.00
20	64QAM	1	0	23.93	23.99	24.09	23.88	23.84	25.00
20	64QAM	1	49	23.92	23.89	24.08	23.83	23.93	25.00
20	64QAM	1	99	23.81	23.94	24.06	23.88	23.83	25.00
20	64QAM	50	0	22.77	22.85	22.92	22.65	22.78	24.00
20	64QAM	50	24	22.96	22.95	23.12	22.89	22.88	24.00
20	64QAM	50	50	22.79	22.76	22.93	22.67	22.80	24.00
20	64QAM	100	0	22.78	22.81	22.94	22.79	22.75	24.00
20	256QAM	1	0	20.92	20.99	21.08	20.84	20.84	22.00
20	256QAM	1	49	20.89	21.01	21.07	20.88	20.94	22.00
20	256QAM	1	99	20.75	20.82	20.95	20.80	20.74	22.00
20	256QAM	50	0	20.94	21.05	21.12	20.88	21.01	22.00
20	256QAM	50	24	20.80	20.76	20.92	20.75	20.78	22.00
20	256QAM	50	50	20.97	20.97	21.12	20.91	20.98	22.00
20	256QAM	100	0	20.71	20.85	20.91	20.73	20.70	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.93	26.03	26.16	25.91	26.01	27.00
15	QPSK	1	37	25.77	25.71	25.88	25.67	25.65	27.00
15	QPSK	1	74	25.50	25.70	25.68	25.47	25.67	27.00
15	QPSK	36	0	24.74	24.80	24.92	24.74	24.74	26.00
15	QPSK	36	20	24.72	24.73	24.90	24.62	24.79	26.00
15	QPSK	36	39	24.72	24.82	24.98	24.63	24.74	26.00
15	QPSK	75	0	24.70	24.78	24.97	24.69	24.81	26.00
15	16QAM	1	0	24.85	24.83	24.97	24.82	24.77	26.00
15	16QAM	1	37	24.71	24.82	24.97	24.76	24.85	26.00
15	16QAM	1	74	24.73	24.87	25.02	24.78	24.86	26.00
15	16QAM	36	0	23.74	23.80	23.89	23.64	23.71	25.00
15	16QAM	36	20	23.87	23.76	23.94	23.66	23.79	25.00
15	16QAM	36	39	23.81	23.82	24.00	23.70	23.77	25.00
15	16QAM	75	0	23.68	23.67	23.82	23.56	23.60	25.00
15	64QAM	1	0	23.89	23.90	23.95	23.75	23.76	25.00
15	64QAM	1	37	23.87	23.82	24.03	23.69	23.80	25.00
15	64QAM	1	74	23.68	23.87	24.03	23.77	23.75	25.00
15	64QAM	36	0	22.76	22.82	22.86	22.60	22.68	24.00
15	64QAM	36	20	22.81	22.85	23.04	22.78	22.79	24.00
15	64QAM	36	39	22.67	22.73	22.81	22.62	22.71	24.00
15	64QAM	75	0	22.64	22.77	22.79	22.70	22.72	24.00
15	256QAM	1	0	20.78	20.85	21.03	20.78	20.76	22.00
15	256QAM	1	37	20.81	20.88	20.94	20.80	20.92	22.00
15	256QAM	1	74	20.60	20.80	20.88	20.76	20.68	22.00



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15	256QAM	36	0	20.91	21.00	20.98	20.84	21.00	22.00
15	256QAM	36	20	20.66	20.66	20.88	20.69	20.71	22.00
15	256QAM	36	39	20.90	20.84	21.09	20.77	20.84	22.00
15	256QAM	75	0	20.60	20.82	20.82	20.68	20.55	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.95	26.08	26.09	25.94	26.02	27.00
10	QPSK	1	25	25.71	25.76	25.97	25.75	25.62	27.00
10	QPSK	1	49	25.53	25.66	25.71	25.60	25.57	27.00
10	QPSK	25	0	24.71	24.85	24.94	24.72	24.67	26.00
10	QPSK	25	12	24.77	24.84	24.92	24.56	24.73	26.00
10	QPSK	25	25	24.76	24.84	24.98	24.74	24.66	26.00
10	QPSK	50	0	24.76	24.85	24.96	24.76	24.75	26.00
10	16QAM	1	0	24.78	24.89	24.99	24.80	24.77	26.00
10	16QAM	1	25	24.71	24.89	24.85	24.67	24.75	26.00
10	16QAM	1	49	24.74	24.83	24.97	24.73	24.85	26.00
10	16QAM	25	0	23.76	23.70	23.95	23.69	23.71	25.00
10	16QAM	25	12	23.83	23.79	23.99	23.75	23.83	25.00
10	16QAM	25	25	23.70	23.79	23.92	23.72	23.85	25.00
10	16QAM	50	0	23.56	23.66	23.86	23.68	23.70	25.00
10	64QAM	1	0	23.87	23.92	23.99	23.75	23.75	25.00
10	64QAM	1	25	23.81	23.87	23.94	23.69	23.89	25.00
10	64QAM	1	49	23.67	23.81	23.99	23.86	23.76	25.00
10	64QAM	25	0	22.74	22.83	22.87	22.60	22.66	24.00
10	64QAM	25	12	22.82	22.82	23.07	22.78	22.85	24.00
10	64QAM	25	25	22.73	22.66	22.80	22.62	22.72	24.00
10	64QAM	50	0	22.65	22.79	22.92	22.72	22.64	24.00
10	256QAM	1	0	20.84	20.93	20.98	20.75	20.72	22.00
10	256QAM	1	25	20.80	20.88	20.96	20.82	20.82	22.00
10	256QAM	1	49	20.72	20.80	20.87	20.70	20.67	22.00
10	256QAM	25	0	20.89	21.03	21.02	20.85	20.91	22.00
10	256QAM	25	12	20.72	20.66	20.86	20.72	20.75	22.00
10	256QAM	25	25	20.93	20.91	20.99	20.85	20.86	22.00
10	256QAM	50	0	20.61	20.74	20.81	20.65	20.56	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	25.95	26.10	26.17	25.90	26.03	27.00
5	QPSK	1	12	25.70	25.78	25.96	25.66	25.72	27.00
5	QPSK	1	24	25.58	25.68	25.70	25.57	25.57	27.00
5	QPSK	12	0	24.70	24.78	24.91	24.77	24.68	26.00
5	QPSK	12	7	24.74	24.74	24.82	24.60	24.73	26.00
5	QPSK	12	13	24.85	24.79	25.01	24.65	24.74	26.00
5	QPSK	25	0	24.74	24.75	24.97	24.70	24.75	26.00
5	16QAM	1	0	24.85	24.86	25.07	24.77	24.85	26.00
5	16QAM	1	12	24.71	24.91	24.88	24.74	24.79	26.00
5	16QAM	1	24	24.77	24.81	25.06	24.71	24.80	26.00
5	16QAM	12	0	23.80	23.72	23.90	23.63	23.68	25.00
5	16QAM	12	7	23.76	23.73	24.00	23.64	23.80	25.00
5	16QAM	12	13	23.74	23.78	23.93	23.76	23.87	25.00
5	16QAM	25	0	23.60	23.63	23.90	23.61	23.66	25.00
5	64QAM	1	0	23.80	23.97	23.95	23.78	23.81	25.00
5	64QAM	1	12	23.83	23.81	24.05	23.72	23.82	25.00
5	64QAM	1	24	23.70	23.86	24.01	23.75	23.70	25.00
5	64QAM	12	0	22.72	22.81	22.80	22.53	22.65	24.00
5	64QAM	12	7	22.81	22.92	23.01	22.83	22.76	24.00
5	64QAM	12	13	22.73	22.69	22.90	22.58	22.70	24.00
5	64QAM	25	0	22.74	22.73	22.83	22.78	22.73	24.00
5	256QAM	1	0	20.86	20.96	20.99	20.74	20.79	22.00
5	256QAM	1	12	20.85	20.92	20.99	20.84	20.79	22.00
5	256QAM	1	24	20.64	20.77	20.88	20.71	20.61	22.00
5	256QAM	12	0	20.87	20.91	21.01	20.79	21.00	22.00
5	256QAM	12	7	20.78	20.64	20.80	20.68	20.69	22.00
5	256QAM	12	13	20.86	20.90	21.10	20.87	20.83	22.00
5	256QAM	25	0	20.63	20.84	20.81	20.69	20.68	22.00

**【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 2_DSI 3】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24.00
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.65	22.85	22.86	22.69	22.72	24.00
20	QPSK	1	49	22.41	22.60	22.72	22.45	22.54	24.00
20	QPSK	1	99	22.34	22.45	22.61	22.41	22.37	24.00
20	QPSK	50	0	22.72	22.65	22.75	22.69	22.62	24.00
20	QPSK	50	24	22.48	22.57	22.71	22.45	22.50	24.00
20	QPSK	50	50	22.31	22.56	22.62	22.31	22.42	24.00
20	QPSK	100	0	22.71	22.64	22.74	22.59	22.68	24.00
20	16QAM	1	0	22.29	22.58	22.63	22.33	22.41	24.00
20	16QAM	1	49	22.45	22.61	22.71	22.44	22.53	24.00
20	16QAM	1	99	22.41	22.50	22.64	22.38	22.42	24.00
20	16QAM	50	0	22.24	22.44	22.58	22.34	22.35	24.00
20	16QAM	50	24	22.42	22.50	22.65	22.37	22.46	24.00
20	16QAM	50	50	22.37	22.57	22.73	22.49	22.52	24.00
20	16QAM	100	0	22.40	22.65	22.74	22.45	22.53	24.00
20	64QAM	1	0	22.38	22.55	22.68	22.39	22.43	24.00
20	64QAM	1	49	22.37	22.56	22.69	22.37	22.48	24.00
20	64QAM	1	99	22.41	22.59	22.65	22.39	22.46	24.00
20	64QAM	50	0	22.45	22.59	22.74	22.62	22.41	24.00
20	64QAM	50	24	22.55	22.43	22.68	22.45	22.55	24.00
20	64QAM	50	50	22.50	22.55	22.77	22.62	22.63	24.00
20	64QAM	100	0	22.48	22.63	22.70	22.62	22.61	24.00
20	256QAM	1	0	20.91	21.23	21.25	21.02	21.08	22.00
20	256QAM	1	49	20.97	21.12	21.20	20.91	21.00	22.00
20	256QAM	1	99	20.94	21.23	21.25	20.99	21.00	22.00
20	256QAM	50	0	20.94	21.12	21.16	20.92	20.94	22.00
20	256QAM	50	24	20.88	21.08	21.11	20.84	20.88	22.00
20	256QAM	50	50	20.98	21.11	21.19	21.02	20.99	22.00
20	256QAM	100	0	20.92	21.11	21.21	21.00	21.04	22.00
Channel				39725	40173	40620	41068	41515	24.00
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.58	22.72	22.84	22.58	22.60	24.00
15	QPSK	1	37	22.37	22.54	22.60	22.36	22.48	24.00
15	QPSK	1	74	22.29	22.43	22.55	22.27	22.35	24.00
15	QPSK	36	0	22.59	22.56	22.72	22.67	22.60	24.00
15	QPSK	36	20	22.39	22.43	22.68	22.35	22.40	24.00
15	QPSK	36	39	22.28	22.52	22.57	22.20	22.30	24.00
15	QPSK	75	0	22.67	22.61	22.63	22.50	22.56	24.00
15	16QAM	1	0	22.22	22.54	22.51	22.20	22.32	24.00
15	16QAM	1	37	22.35	22.49	22.68	22.41	22.43	24.00
15	16QAM	1	74	22.28	22.42	22.50	22.23	22.36	24.00
15	16QAM	36	0	22.21	22.41	22.56	22.27	22.22	24.00
15	16QAM	36	20	22.32	22.42	22.62	22.25	22.38	24.00
15	16QAM	36	39	22.33	22.53	22.65	22.47	22.39	24.00
15	16QAM	75	0	22.32	22.57	22.63	22.30	22.44	24.00
15	64QAM	1	0	22.36	22.48	22.66	22.29	22.30	24.00
15	64QAM	1	37	22.22	22.41	22.61	22.22	22.40	24.00
15	64QAM	1	74	22.32	22.56	22.54	22.31	22.36	24.00
15	64QAM	36	0	22.35	22.57	22.64	22.58	22.27	24.00
15	64QAM	36	20	22.54	22.35	22.58	22.41	22.40	24.00
15	64QAM	36	39	22.43	22.46	22.68	22.59	22.58	24.00
15	64QAM	75	0	22.34	22.59	22.55	22.47	22.57	24.00
15	256QAM	1	0	20.87	21.22	21.19	20.94	21.00	22.00
15	256QAM	1	37	20.83	21.02	21.09	20.90	20.91	22.00
15	256QAM	1	74	20.91	21.15	21.19	20.91	20.87	22.00
15	256QAM	36	0	20.91	21.02	21.05	20.87	20.83	22.00
15	256QAM	36	20	20.75	20.99	21.05	20.70	20.80	22.00
15	256QAM	36	39	20.87	20.99	21.08	20.90	20.89	22.00
15	256QAM	75	0	20.87	21.05	21.20	20.97	20.98	22.00
Channel				39700	40160	40620	41080	41540	24.00
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.54	22.79	22.77	22.54	22.66	24.00
10	QPSK	1	25	22.40	22.45	22.58	22.37	22.43	24.00
10	QPSK	1	49	22.33	22.44	22.52	22.35	22.23	24.00
10	QPSK	25	0	22.63	22.54	22.61	22.61	22.51	24.00
10	QPSK	25	12	22.46	22.52	22.63	22.34	22.37	24.00
10	QPSK	25	25	22.23	22.53	22.52	22.24	22.40	24.00
10	QPSK	50	0	22.68	22.52	22.62	22.49	22.63	24.00
10	16QAM	1	0	22.20	22.52	22.50	22.22	22.33	24.00
10	16QAM	1	25	22.36	22.52	22.59	22.32	22.48	24.00



10	16QAM	1	49	22.39	22.40	22.60	22.23	22.29	24.00
10	16QAM	25	0	22.14	22.34	22.51	22.28	22.23	24.00
10	16QAM	25	12	22.37	22.40	22.54	22.32	22.45	24.00
10	16QAM	25	25	22.32	22.52	22.58	22.41	22.40	24.00
10	16QAM	50	0	22.33	22.59	22.70	22.33	22.41	24.00
10	64QAM	1	0	22.30	22.41	22.60	22.38	22.41	24.00
10	64QAM	1	25	22.30	22.46	22.59	22.23	22.39	24.00
10	64QAM	1	49	22.26	22.55	22.53	22.28	22.32	24.00
10	64QAM	25	0	22.44	22.48	22.67	22.47	22.34	24.00
10	64QAM	25	12	22.54	22.35	22.55	22.42	22.54	24.00
10	64QAM	25	25	22.48	22.52	22.66	22.54	22.56	24.00
10	64QAM	50	0	22.47	22.54	22.69	22.50	22.51	24.00
10	256QAM	1	0	20.88	21.09	21.23	21.01	20.94	22.00
10	256QAM	1	25	20.91	21.06	21.13	20.89	20.97	22.00
10	256QAM	1	49	20.82	21.09	21.15	20.92	20.90	22.00
10	256QAM	25	0	20.84	20.99	21.13	20.86	20.84	22.00
10	256QAM	25	12	20.77	21.02	21.08	20.74	20.78	22.00
10	256QAM	25	25	20.95	21.03	21.11	20.90	20.93	22.00
10	256QAM	50	0	20.85	21.06	21.19	20.92	20.98	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.52	22.76	22.85	22.60	22.60	24.00
5	QPSK	1	12	22.34	22.53	22.61	22.42	22.41	24.00
5	QPSK	1	24	22.30	22.36	22.59	22.36	22.27	24.00
5	QPSK	12	0	22.67	22.57	22.72	22.66	22.50	24.00
5	QPSK	12	7	22.38	22.49	22.66	22.34	22.47	24.00
5	QPSK	12	13	22.21	22.54	22.47	22.29	22.37	24.00
5	QPSK	25	0	22.65	22.61	22.69	22.47	22.63	24.00
5	16QAM	1	0	22.18	22.50	22.61	22.29	22.32	24.00
5	16QAM	1	12	22.33	22.56	22.65	22.35	22.42	24.00
5	16QAM	1	24	22.40	22.48	22.59	22.37	22.30	24.00
5	16QAM	12	0	22.11	22.38	22.54	22.20	22.21	24.00
5	16QAM	12	7	22.33	22.40	22.53	22.28	22.42	24.00
5	16QAM	12	13	22.26	22.51	22.69	22.46	22.50	24.00
5	16QAM	25	0	22.26	22.54	22.68	22.41	22.43	24.00
5	64QAM	1	0	22.35	22.46	22.62	22.34	22.41	24.00
5	64QAM	1	12	22.29	22.44	22.60	22.29	22.41	24.00
5	64QAM	1	24	22.27	22.51	22.51	22.33	22.38	24.00
5	64QAM	12	0	22.44	22.46	22.62	22.56	22.38	24.00
5	64QAM	12	7	22.53	22.41	22.61	22.33	22.41	24.00
5	64QAM	12	13	22.47	22.42	22.69	22.49	22.56	24.00
5	64QAM	25	0	22.34	22.60	22.58	22.59	22.54	24.00
5	256QAM	1	0	20.76	21.13	21.23	21.00	20.93	22.00
5	256QAM	1	12	20.84	21.04	21.11	20.89	20.92	22.00
5	256QAM	1	24	20.90	21.08	21.12	20.97	20.87	22.00
5	256QAM	12	0	20.85	21.01	21.11	20.90	20.90	22.00
5	256QAM	12	7	20.87	21.02	20.97	20.82	20.79	22.00
5	256QAM	12	13	20.94	20.97	21.07	20.95	20.95	22.00
5	256QAM	25	0	20.84	21.06	21.07	20.87	21.00	22.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 2_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.91	24.88	24.93	24.79	24.92	25.60
20	QPSK	1	49	24.70	24.67	24.74	24.45	24.66	25.60
20	QPSK	1	99	24.67	24.67	24.77	24.62	24.63	25.60
20	QPSK	50	0	24.72	24.70	24.77	24.66	24.65	25.60
20	QPSK	50	24	24.61	24.56	24.69	24.52	24.57	25.60
20	QPSK	50	50	24.51	24.56	24.65	24.48	24.52	25.60
20	QPSK	100	0	24.72	24.77	24.79	24.68	24.65	25.60
20	16QAM	1	0	24.56	24.52	24.68	24.46	24.60	25.60
20	16QAM	1	49	24.55	24.51	24.68	24.47	24.56	25.60
20	16QAM	1	99	24.58	24.54	24.74	24.56	24.64	25.60
20	16QAM	50	0	24.07	24.16	24.22	23.99	24.09	25.00
20	16QAM	50	24	24.19	24.24	24.32	24.10	24.30	25.00
20	16QAM	50	50	24.22	24.21	24.28	24.10	24.24	25.00
20	16QAM	100	0	24.24	24.12	24.31	24.04	24.22	25.00
20	64QAM	1	0	24.08	24.02	24.20	23.99	24.15	25.00
20	64QAM	1	49	24.19	24.06	24.25	24.08	24.13	25.00



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20	64QAM	1	99	24.06	24.06	24.16	24.01	24.05	25.00
20	64QAM	50	0	23.10	23.09	23.17	22.95	23.09	24.00
20	64QAM	50	24	23.13	23.11	23.21	23.03	23.17	24.00
20	64QAM	50	50	23.15	23.11	23.25	23.00	23.14	24.00
20	64QAM	100	0	23.09	23.08	23.18	22.91	23.05	24.00
20	256QAM	1	0	21.06	21.02	21.15	20.98	21.01	22.00
20	256QAM	1	49	21.02	21.11	21.16	20.98	21.14	22.00
20	256QAM	1	99	21.01	21.04	21.17	20.93	21.12	22.00
20	256QAM	50	0	21.20	21.15	21.29	21.07	21.27	22.00
20	256QAM	50	24	21.14	21.10	21.28	21.11	21.18	22.00
20	256QAM	50	50	21.14	21.23	21.30	21.11	21.16	22.00
20	256QAM	100	0	21.07	21.10	21.21	21.06	21.15	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.78	24.78	24.80	24.66	24.84	25.60
15	QPSK	1	37	24.65	24.60	24.60	24.39	24.64	25.60
15	QPSK	1	74	24.60	24.54	24.64	24.54	24.54	25.60
15	QPSK	36	0	24.61	24.57	24.70	24.59	24.60	25.60
15	QPSK	36	20	24.50	24.52	24.66	24.49	24.44	25.60
15	QPSK	36	39	24.41	24.42	24.58	24.46	24.47	25.60
15	QPSK	75	0	24.58	24.71	24.67	24.61	24.62	25.60
15	16QAM	1	0	24.47	24.45	24.65	24.33	24.46	25.60
15	16QAM	1	37	24.47	24.39	24.54	24.44	24.50	25.60
15	16QAM	1	74	24.47	24.45	24.72	24.46	24.56	25.60
15	16QAM	36	0	24.05	24.09	24.09	23.95	24.06	25.00
15	16QAM	36	20	24.15	24.11	24.22	24.00	24.24	25.00
15	16QAM	36	39	24.13	24.07	24.14	24.04	24.17	25.00
15	16QAM	75	0	24.10	24.05	24.17	24.01	24.09	25.00
15	64QAM	1	0	23.97	23.98	24.18	23.88	24.10	25.00
15	64QAM	1	37	24.17	24.03	24.12	23.99	24.04	25.00
15	64QAM	1	74	24.05	24.01	24.13	23.86	23.94	25.00
15	64QAM	36	0	22.97	22.96	23.05	22.87	23.00	24.00
15	64QAM	36	20	23.12	23.07	23.18	23.00	23.15	24.00
15	64QAM	36	39	23.02	23.05	23.16	22.88	23.11	24.00
15	64QAM	75	0	22.97	22.93	23.06	22.81	22.93	24.00
15	256QAM	1	0	21.02	20.98	21.09	20.85	20.95	22.00
15	256QAM	1	37	20.98	20.97	21.06	20.91	21.10	22.00
15	256QAM	1	74	20.98	20.98	21.12	20.83	21.00	22.00
15	256QAM	36	0	21.06	21.00	21.22	20.99	21.25	22.00
15	256QAM	36	20	21.11	21.01	21.22	20.99	21.04	22.00
15	256QAM	36	39	21.06	21.20	21.25	21.01	21.10	22.00
15	256QAM	75	0	21.05	20.96	21.13	20.96	21.02	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.87	24.81	24.92	24.74	24.89	25.60
10	QPSK	1	25	24.64	24.61	24.63	24.43	24.60	25.60
10	QPSK	1	49	24.58	24.65	24.75	24.58	24.57	25.60
10	QPSK	25	0	24.65	24.66	24.63	24.64	24.51	25.60
10	QPSK	25	12	24.48	24.51	24.67	24.38	24.46	25.60
10	QPSK	25	25	24.49	24.48	24.64	24.42	24.45	25.60
10	QPSK	50	0	24.70	24.75	24.74	24.60	24.54	25.60
10	16QAM	1	0	24.52	24.43	24.56	24.38	24.55	25.60
10	16QAM	1	25	24.48	24.41	24.66	24.45	24.50	25.60
10	16QAM	1	49	24.56	24.52	24.69	24.53	24.54	25.60
10	16QAM	25	0	23.97	24.06	24.18	23.87	24.02	25.00
10	16QAM	25	12	24.08	24.19	24.22	24.01	24.15	25.00
10	16QAM	25	25	24.17	24.09	24.13	24.08	24.22	25.00
10	16QAM	50	0	24.21	24.01	24.17	24.00	24.16	25.00
10	64QAM	1	0	24.03	23.87	24.12	23.97	24.09	25.00
10	64QAM	1	25	24.13	24.05	24.21	24.05	24.03	25.00
10	64QAM	1	49	23.91	23.95	24.05	23.98	24.00	25.00
10	64QAM	25	0	23.03	23.02	23.03	22.91	23.04	24.00
10	64QAM	25	12	23.05	22.98	23.14	22.95	23.06	24.00
10	64QAM	25	25	23.05	22.97	23.20	22.86	23.06	24.00
10	64QAM	50	0	22.99	23.05	23.08	22.81	22.94	24.00
10	256QAM	1	0	21.03	20.96	21.07	20.90	21.00	22.00
10	256QAM	1	25	20.92	21.05	21.12	20.96	21.01	22.00
10	256QAM	1	49	20.97	20.99	21.03	20.90	21.09	22.00
10	256QAM	25	0	21.10	21.14	21.19	20.98	21.13	22.00
10	256QAM	25	12	21.13	20.98	21.15	20.98	21.12	22.00
10	256QAM	25	25	21.07	21.20	21.27	20.97	21.10	22.00
10	256QAM	50	0	21.01	21.09	21.14	20.92	21.03	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	24.83	24.77	24.81	24.77	24.83	25.60



5	QPSK	1	12	24.58	24.63	24.61	24.43	24.56	25.60
5	QPSK	1	24	24.62	24.56	24.73	24.55	24.48	25.60
5	QPSK	12	0	24.60	24.56	24.72	24.62	24.60	25.60
5	QPSK	12	7	24.56	24.54	24.59	24.50	24.53	25.60
5	QPSK	12	13	24.38	24.52	24.59	24.37	24.47	25.60
5	QPSK	25	0	24.69	24.64	24.70	24.55	24.61	25.60
5	16QAM	1	0	24.46	24.44	24.66	24.36	24.48	25.60
5	16QAM	1	12	24.43	24.41	24.58	24.41	24.46	25.60
5	16QAM	1	24	24.52	24.42	24.69	24.47	24.59	25.60
5	16QAM	12	0	24.02	24.11	24.18	23.86	24.00	25.00
5	16QAM	12	7	24.12	24.14	24.30	24.05	24.19	25.00
5	16QAM	12	13	24.14	24.12	24.20	24.08	24.09	25.00
5	16QAM	25	0	24.10	23.99	24.28	23.95	24.15	25.00
5	64QAM	1	0	24.07	23.93	24.17	23.95	24.03	25.00
5	64QAM	1	12	24.05	24.01	24.13	24.04	23.99	25.00
5	64QAM	1	24	23.94	24.03	24.05	23.98	23.94	25.00
5	64QAM	12	0	23.03	23.03	23.08	22.84	23.07	24.00
5	64QAM	12	7	23.01	22.97	23.08	22.97	23.09	24.00
5	64QAM	12	13	23.07	23.03	23.13	22.95	23.02	24.00
5	64QAM	25	0	23.00	22.98	23.15	22.81	23.00	24.00
5	256QAM	1	0	20.93	20.88	21.12	20.91	20.95	22.00
5	256QAM	1	12	21.01	21.09	21.15	20.94	21.05	22.00
5	256QAM	1	24	20.95	20.93	21.07	20.89	21.02	22.00
5	256QAM	12	0	21.07	21.08	21.20	21.02	21.22	22.00
5	256QAM	12	7	21.12	21.06	21.16	21.00	21.12	22.00
5	256QAM	12	13	21.07	21.13	21.20	21.01	21.13	22.00
5	256QAM	25	0	21.06	20.99	21.14	20.97	21.06	22.00

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 2_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	17.30
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	16.03	16.01	16.07	15.98	15.99	17.30
20	QPSK	1	49	15.99	15.88	15.99	15.92	15.96	17.30
20	QPSK	1	99	15.93	15.88	15.97	15.84	15.94	17.30
20	QPSK	50	0	15.97	15.91	16.05	15.88	15.93	17.30
20	QPSK	50	24	15.97	15.87	16.01	15.86	15.96	17.30
20	QPSK	50	50	16.00	15.96	15.98	15.84	15.93	17.30
20	QPSK	100	0	15.94	15.89	15.97	15.95	15.93	17.30
20	16QAM	1	0	15.92	15.88	15.96	15.84	15.86	17.30
20	16QAM	1	49	15.99	15.92	15.99	15.95	15.93	17.30
20	16QAM	1	99	15.99	15.91	16.00	15.94	15.89	17.30
20	16QAM	50	0	15.98	15.94	15.98	15.94	15.87	17.30
20	16QAM	50	24	15.99	15.92	15.98	15.86	15.86	17.30
20	16QAM	50	50	15.99	15.98	16.02	15.95	15.85	17.30
20	16QAM	100	0	16.00	15.94	15.98	15.93	15.95	17.30
20	64QAM	1	0	15.90	15.90	15.96	15.93	15.86	17.30
20	64QAM	1	49	15.97	15.97	16.04	15.85	15.90	17.30
20	64QAM	1	99	15.91	15.94	15.94	15.94	15.95	17.30
20	64QAM	50	0	15.88	15.87	15.93	15.94	15.91	17.30
20	64QAM	50	24	15.92	15.92	15.96	15.94	15.85	17.30
20	64QAM	50	50	15.90	15.95	16.03	15.91	15.90	17.30
20	64QAM	100	0	15.90	15.96	16.03	15.93	15.96	17.30
20	256QAM	1	0	15.95	15.94	15.99	15.92	15.93	17.30
20	256QAM	1	49	15.95	15.92	15.93	15.94	15.87	17.30
20	256QAM	1	99	15.89	15.91	15.93	15.93	15.91	17.30
20	256QAM	50	0	15.91	15.94	16.00	15.84	15.95	17.30
20	256QAM	50	24	15.99	15.96	16.03	15.89	15.94	17.30
20	256QAM	50	50	15.94	15.98	15.94	15.85	15.85	17.30
20	256QAM	100	0	15.97	15.93	16.00	15.87	15.85	17.30
Channel				39725	40173	40620	41068	41515	17.30
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	15.95	15.92	15.96	15.95	15.98	17.30
15	QPSK	1	37	15.86	15.79	15.91	15.87	15.93	17.30
15	QPSK	1	74	15.80	15.74	15.92	15.71	15.87	17.30
15	QPSK	36	0	15.88	15.78	15.95	15.75	15.89	17.30
15	QPSK	36	20	15.91	15.78	15.88	15.80	15.94	17.30
15	QPSK	36	39	15.94	15.88	15.85	15.73	15.88	17.30
15	QPSK	75	0	15.80	15.76	15.95	15.84	15.84	17.30
15	16QAM	1	0	15.77	15.75	15.88	15.69	15.79	17.30



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15	16QAM	1	37	15.91	15.82	15.96	15.90	15.85	17.30
15	16QAM	1	74	15.96	15.88	15.95	15.84	15.74	17.30
15	16QAM	36	0	15.88	15.88	15.84	15.89	15.80	17.30
15	16QAM	36	20	15.95	15.87	15.97	15.81	15.74	17.30
15	16QAM	36	39	15.97	15.96	15.91	15.87	15.71	17.30
15	16QAM	75	0	15.98	15.93	15.84	15.89	15.92	17.30
15	64QAM	1	0	15.76	15.82	15.85	15.78	15.84	17.30
15	64QAM	1	37	15.90	15.88	15.94	15.77	15.76	17.30
15	64QAM	1	74	15.88	15.81	15.92	15.92	15.85	17.30
15	64QAM	36	0	15.81	15.80	15.91	15.83	15.86	17.30
15	64QAM	36	20	15.81	15.83	15.93	15.92	15.80	17.30
15	64QAM	36	39	15.86	15.86	15.93	15.84	15.77	17.30
15	64QAM	75	0	15.84	15.92	15.96	15.83	15.89	17.30
15	256QAM	1	0	15.91	15.93	15.92	15.81	15.85	17.30
15	256QAM	1	37	15.89	15.77	15.87	15.80	15.77	17.30
15	256QAM	1	74	15.78	15.88	15.89	15.78	15.86	17.30
15	256QAM	36	0	15.89	15.84	15.96	15.81	15.85	17.30
15	256QAM	36	20	15.95	15.88	15.94	15.81	15.84	17.30
15	256QAM	36	39	15.86	15.93	15.80	15.81	15.73	17.30
15	256QAM	75	0	15.88	15.78	15.89	15.81	15.78	17.30
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	15.90	15.87	15.98	15.86	15.90	17.30
10	QPSK	1	25	15.96	15.86	15.94	15.80	15.90	17.30
10	QPSK	1	49	15.92	15.76	15.90	15.73	15.89	17.30
10	QPSK	25	0	15.92	15.89	16.00	15.77	15.92	17.30
10	QPSK	25	12	15.85	15.85	15.91	15.79	15.83	17.30
10	QPSK	25	25	15.95	15.86	15.92	15.80	15.82	17.30
10	QPSK	50	0	15.88	15.78	15.92	15.88	15.84	17.30
10	16QAM	1	0	15.84	15.82	15.89	15.77	15.81	17.30
10	16QAM	1	25	15.89	15.90	15.96	15.91	15.84	17.30
10	16QAM	1	49	15.89	15.80	15.95	15.90	15.80	17.30
10	16QAM	25	0	15.88	15.85	15.85	15.84	15.77	17.30
10	16QAM	25	12	15.86	15.87	15.93	15.72	15.77	17.30
10	16QAM	25	25	15.85	15.84	15.97	15.94	15.71	17.30
10	16QAM	50	0	15.89	15.89	15.90	15.83	15.86	17.30
10	64QAM	1	0	15.81	15.81	15.91	15.90	15.75	17.30
10	64QAM	1	25	15.94	15.85	15.90	15.71	15.75	17.30
10	64QAM	1	49	15.87	15.91	15.90	15.89	15.85	17.30
10	64QAM	25	0	15.82	15.77	15.86	15.80	15.90	17.30
10	64QAM	25	12	15.86	15.80	15.82	15.79	15.79	17.30
10	64QAM	25	25	15.77	15.86	15.93	15.89	15.89	17.30
10	64QAM	50	0	15.80	15.88	15.97	15.90	15.94	17.30
10	256QAM	1	0	15.82	15.82	15.96	15.85	15.84	17.30
10	256QAM	1	25	15.89	15.84	15.85	15.84	15.77	17.30
10	256QAM	1	49	15.83	15.89	15.81	15.82	15.83	17.30
10	256QAM	25	0	15.81	15.88	15.92	15.81	15.88	17.30
10	256QAM	25	12	15.90	15.88	16.02	15.74	15.90	17.30
10	256QAM	25	25	15.87	15.87	15.86	15.73	15.82	17.30
10	256QAM	50	0	15.87	15.87	15.91	15.82	15.77	17.30
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	15.98	15.88	15.93	15.87	15.94	17.30
5	QPSK	1	12	15.87	15.76	15.85	15.86	15.83	17.30
5	QPSK	1	24	15.85	15.73	15.82	15.74	15.84	17.30
5	QPSK	12	0	15.92	15.80	16.03	15.84	15.79	17.30
5	QPSK	12	7	15.89	15.81	15.89	15.83	15.89	17.30
5	QPSK	12	13	15.87	15.92	15.91	15.72	15.91	17.30
5	QPSK	25	0	15.83	15.88	15.96	15.88	15.79	17.30
5	16QAM	1	0	15.83	15.84	15.85	15.82	15.83	17.30
5	16QAM	1	12	15.87	15.89	15.97	15.89	15.81	17.30
5	16QAM	1	24	15.88	15.88	15.92	15.79	15.76	17.30
5	16QAM	12	0	15.87	15.89	15.89	15.86	15.80	17.30
5	16QAM	12	7	15.91	15.90	15.93	15.77	15.78	17.30
5	16QAM	12	13	15.87	15.88	15.95	15.89	15.72	17.30
5	16QAM	25	0	15.93	15.81	15.97	15.91	15.86	17.30
5	64QAM	1	0	15.87	15.89	15.93	15.89	15.76	17.30
5	64QAM	1	12	15.82	15.89	16.01	15.79	15.84	17.30
5	64QAM	1	24	15.87	15.90	15.88	15.79	15.84	17.30
5	64QAM	12	0	15.77	15.83	15.78	15.91	15.90	17.30
5	64QAM	12	7	15.90	15.78	15.88	15.85	15.76	17.30
5	64QAM	12	13	15.82	15.93	15.98	15.79	15.75	17.30
5	64QAM	25	0	15.78	15.82	15.96	15.92	15.84	17.30
5	256QAM	1	0	15.92	15.87	15.88	15.88	15.88	17.30
5	256QAM	1	12	15.93	15.83	15.78	15.91	15.76	17.30
5	256QAM	1	24	15.85	15.77	15.90	15.81	15.78	17.30



5	256QAM	12	0	15.78	15.84	15.90	15.80	15.88	17.30
5	256QAM	12	7	15.91	15.82	15.90	15.78	15.92	17.30
5	256QAM	12	13	15.88	15.94	15.88	15.73	15.75	17.30
5	256QAM	25	0	15.94	15.83	15.92	15.82	15.80	17.30

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 2_DSI 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	23.60
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.65	22.85	22.86	22.69	22.72	23.60
20	QPSK	1	49	22.41	22.60	22.72	22.45	22.54	23.60
20	QPSK	1	99	22.34	22.45	22.61	22.41	22.37	23.60
20	QPSK	50	0	22.72	22.65	22.75	22.69	22.62	23.60
20	QPSK	50	24	22.48	22.57	22.71	22.45	22.50	23.60
20	QPSK	50	50	22.31	22.56	22.62	22.31	22.42	23.60
20	QPSK	100	0	22.71	22.64	22.74	22.59	22.68	23.60
20	16QAM	1	0	22.29	22.58	22.63	22.33	22.41	23.60
20	16QAM	1	49	22.45	22.61	22.71	22.44	22.53	23.60
20	16QAM	1	99	22.41	22.50	22.64	22.38	22.42	23.60
20	16QAM	50	0	22.24	22.44	22.58	22.34	22.35	23.60
20	16QAM	50	24	22.42	22.50	22.65	22.37	22.46	23.60
20	16QAM	50	50	22.37	22.57	22.73	22.49	22.52	23.60
20	16QAM	100	0	22.40	22.65	22.74	22.45	22.53	23.60
20	64QAM	1	0	22.38	22.55	22.68	22.39	22.43	23.60
20	64QAM	1	49	22.37	22.56	22.69	22.37	22.48	23.60
20	64QAM	1	99	22.41	22.59	22.65	22.39	22.46	23.60
20	64QAM	50	0	22.01	22.14	22.19	22.01	22.00	23.60
20	64QAM	50	24	22.00	22.04	22.07	22.01	22.02	23.60
20	64QAM	50	50	22.00	22.07	22.18	22.01	22.02	23.60
20	64QAM	100	0	22.01	22.10	22.15	22.02	22.00	23.60
20	256QAM	1	0	20.91	21.23	21.25	21.02	21.08	22.00
20	256QAM	1	49	20.97	21.12	21.20	20.91	21.00	22.00
20	256QAM	1	99	20.94	21.23	21.25	20.99	21.00	22.00
20	256QAM	50	0	20.94	21.12	21.16	20.92	20.94	22.00
20	256QAM	50	24	20.88	21.08	21.11	20.84	20.88	22.00
20	256QAM	50	50	20.98	21.11	21.19	21.02	20.99	22.00
20	256QAM	100	0	20.92	21.11	21.21	21.00	21.04	22.00
Channel				39725	40173	40620	41068	41515	23.60
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.58	22.72	22.84	22.58	22.60	23.60
15	QPSK	1	37	22.37	22.54	22.60	22.36	22.48	23.60
15	QPSK	1	74	22.29	22.43	22.55	22.27	22.35	23.60
15	QPSK	36	0	22.59	22.56	22.72	22.67	22.60	23.60
15	QPSK	36	20	22.39	22.43	22.68	22.35	22.40	23.60
15	QPSK	36	39	22.28	22.52	22.57	22.20	22.30	23.60
15	QPSK	75	0	22.67	22.61	22.63	22.50	22.56	23.60
15	16QAM	1	0	22.22	22.54	22.51	22.20	22.32	23.60
15	16QAM	1	37	22.35	22.49	22.68	22.41	22.43	23.60
15	16QAM	1	74	22.28	22.42	22.50	22.23	22.36	23.60
15	16QAM	36	0	22.21	22.41	22.56	22.27	22.22	23.60
15	16QAM	36	20	22.32	22.42	22.62	22.25	22.38	23.60
15	16QAM	36	39	22.33	22.53	22.65	22.47	22.39	23.60
15	16QAM	75	0	22.32	22.57	22.63	22.30	22.44	23.60
15	64QAM	1	0	22.36	22.48	22.66	22.29	22.30	23.60
15	64QAM	1	37	22.22	22.41	22.61	22.22	22.40	23.60
15	64QAM	1	74	22.32	22.56	22.54	22.31	22.36	23.60
15	64QAM	36	0	21.97	22.10	22.16	21.96	21.98	23.60
15	64QAM	36	20	21.94	22.02	22.04	21.87	21.91	23.60
15	64QAM	36	39	21.93	22.05	22.06	21.99	21.88	23.60
15	64QAM	75	0	21.95	22.05	22.01	21.94	21.85	23.60
15	256QAM	1	0	20.87	21.22	21.19	20.94	21.00	22.00
15	256QAM	1	37	20.83	21.02	21.09	20.90	20.91	22.00
15	256QAM	1	74	20.91	21.15	21.19	20.91	20.87	22.00
15	256QAM	36	0	20.91	21.02	21.05	20.87	20.83	22.00
15	256QAM	36	20	20.75	20.99	21.05	20.70	20.80	22.00
15	256QAM	36	39	20.87	20.99	21.08	20.90	20.89	22.00
15	256QAM	75	0	20.87	21.05	21.20	20.97	20.98	22.00
Channel				39700	40160	40620	41080	41540	23.60
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.54	22.79	22.77	22.54	22.66	23.60

10	QPSK	1	25	22.40	22.45	22.58	22.37	22.43	23.60
10	QPSK	1	49	22.33	22.44	22.52	22.35	22.23	23.60
10	QPSK	25	0	22.63	22.54	22.61	22.61	22.51	23.60
10	QPSK	25	12	22.46	22.52	22.63	22.34	22.37	23.60
10	QPSK	25	25	22.23	22.53	22.52	22.24	22.40	23.60
10	QPSK	50	0	22.68	22.52	22.62	22.49	22.63	23.60
10	16QAM	1	0	22.20	22.52	22.50	22.22	22.33	23.60
10	16QAM	1	25	22.36	22.52	22.59	22.32	22.48	23.60
10	16QAM	1	49	22.39	22.40	22.60	22.23	22.29	23.60
10	16QAM	25	0	22.14	22.34	22.51	22.28	22.23	23.60
10	16QAM	25	12	22.37	22.40	22.54	22.32	22.45	23.60
10	16QAM	25	25	22.32	22.52	22.58	22.41	22.40	23.60
10	16QAM	50	0	22.33	22.59	22.70	22.33	22.41	23.60
10	64QAM	1	0	22.30	22.41	22.60	22.38	22.41	23.60
10	64QAM	1	25	22.30	22.46	22.59	22.23	22.39	23.60
10	64QAM	1	49	22.26	22.55	22.53	22.28	22.32	23.60
10	64QAM	25	0	21.91	22.01	22.17	21.94	21.88	23.60
10	64QAM	25	12	21.92	21.98	21.98	21.91	21.88	23.60
10	64QAM	25	25	21.87	22.05	22.07	21.92	21.93	23.60
10	64QAM	50	0	21.99	22.05	22.09	21.98	21.93	23.60
10	256QAM	1	0	20.88	21.09	21.23	21.01	20.94	22.00
10	256QAM	1	25	20.91	21.06	21.13	20.89	20.97	22.00
10	256QAM	1	49	20.82	21.09	21.15	20.92	20.90	22.00
10	256QAM	25	0	20.84	20.99	21.13	20.86	20.84	22.00
10	256QAM	25	12	20.77	21.02	21.08	20.74	20.78	22.00
10	256QAM	25	25	20.95	21.03	21.11	20.90	20.93	22.00
10	256QAM	50	0	20.85	21.06	21.19	20.92	20.98	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.52	22.76	22.85	22.60	22.60	23.60
5	QPSK	1	12	22.34	22.53	22.61	22.42	22.41	23.60
5	QPSK	1	24	22.30	22.36	22.59	22.36	22.27	23.60
5	QPSK	12	0	22.67	22.57	22.72	22.66	22.50	23.60
5	QPSK	12	7	22.38	22.49	22.66	22.34	22.47	23.60
5	QPSK	12	13	22.21	22.54	22.47	22.29	22.37	23.60
5	QPSK	25	0	22.65	22.61	22.69	22.47	22.63	23.60
5	16QAM	1	0	22.18	22.50	22.61	22.29	22.32	23.60
5	16QAM	1	12	22.33	22.56	22.65	22.35	22.42	23.60
5	16QAM	1	24	22.40	22.48	22.59	22.37	22.30	23.60
5	16QAM	12	0	22.11	22.38	22.54	22.20	22.21	23.60
5	16QAM	12	7	22.33	22.40	22.53	22.28	22.42	23.60
5	16QAM	12	13	22.26	22.51	22.69	22.46	22.50	23.60
5	16QAM	25	0	22.26	22.54	22.68	22.41	22.43	23.60
5	64QAM	1	0	22.35	22.46	22.62	22.34	22.41	23.60
5	64QAM	1	12	22.29	22.44	22.60	22.29	22.41	23.60
5	64QAM	1	24	22.27	22.51	22.51	22.33	22.38	23.60
5	64QAM	12	0	21.86	22.05	22.14	21.87	21.91	23.60
5	64QAM	12	7	21.87	22.00	21.96	21.97	21.95	23.60
5	64QAM	12	13	21.94	21.94	22.04	21.99	21.90	23.60
5	64QAM	25	0	21.93	21.95	22.07	21.99	21.95	23.60
5	256QAM	1	0	20.76	21.13	21.23	21.00	20.93	22.00
5	256QAM	1	12	20.84	21.04	21.11	20.89	20.92	22.00
5	256QAM	1	24	20.90	21.08	21.12	20.97	20.87	22.00
5	256QAM	12	0	20.85	21.01	21.11	20.90	20.90	22.00
5	256QAM	12	7	20.87	21.02	20.97	20.82	20.79	22.00
5	256QAM	12	13	20.94	20.97	21.07	20.95	20.95	22.00
5	256QAM	25	0	20.84	21.06	21.07	20.87	21.00	22.00

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 2_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.08	26.15	26.20	26.05	26.08	27.00
20	QPSK	1	49	25.82	25.80	25.99	25.80	25.75	27.00
20	QPSK	1	99	25.59	25.73	25.83	25.62	25.69	27.00
20	QPSK	50	0	24.98	24.99	25.04	25.01	24.91	26.00
20	QPSK	50	24	24.80	24.88	24.96	24.68	24.82	26.00
20	QPSK	50	50	24.87	24.91	25.03	24.77	24.80	26.00
20	QPSK	100	0	24.80	24.87	25.01	24.79	24.86	26.00
20	16QAM	1	0	24.88	24.94	25.09	24.91	24.90	26.00



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20	16QAM	1	49	24.78	24.94	25.00	24.80	24.86	26.00
20	16QAM	1	99	24.86	24.91	25.09	24.80	24.87	26.00
20	16QAM	50	0	23.82	23.84	23.97	23.78	23.74	25.00
20	16QAM	50	24	23.90	23.84	24.03	23.76	23.89	25.00
20	16QAM	50	50	23.82	23.85	24.03	23.83	23.89	25.00
20	16QAM	100	0	23.69	23.75	23.92	23.69	23.73	25.00
20	64QAM	1	0	23.93	23.99	24.09	23.88	23.84	25.00
20	64QAM	1	49	23.92	23.89	24.08	23.83	23.93	25.00
20	64QAM	1	99	23.81	23.94	24.06	23.88	23.83	25.00
20	64QAM	50	0	22.77	22.85	22.92	22.65	22.78	24.00
20	64QAM	50	24	22.96	22.95	23.12	22.89	22.88	24.00
20	64QAM	50	50	22.79	22.76	22.93	22.67	22.80	24.00
20	64QAM	100	0	22.78	22.81	22.94	22.79	22.75	24.00
20	256QAM	1	0	20.92	20.99	21.08	20.84	20.84	22.00
20	256QAM	1	49	20.89	21.01	21.07	20.88	20.94	22.00
20	256QAM	1	99	20.75	20.82	20.95	20.80	20.74	22.00
20	256QAM	50	0	20.94	21.05	21.12	20.88	21.01	22.00
20	256QAM	50	24	20.80	20.76	20.92	20.75	20.78	22.00
20	256QAM	50	50	20.97	20.97	21.12	20.91	20.98	22.00
20	256QAM	100	0	20.71	20.85	20.91	20.73	20.70	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.93	26.03	26.16	25.91	26.01	27.00
15	QPSK	1	37	25.77	25.71	25.88	25.67	25.65	27.00
15	QPSK	1	74	25.50	25.70	25.68	25.47	25.67	27.00
15	QPSK	36	0	24.74	24.80	24.92	24.74	24.74	26.00
15	QPSK	36	20	24.72	24.73	24.90	24.62	24.79	26.00
15	QPSK	36	39	24.72	24.82	24.98	24.63	24.74	26.00
15	QPSK	75	0	24.70	24.78	24.97	24.69	24.81	26.00
15	16QAM	1	0	24.85	24.83	24.97	24.82	24.77	26.00
15	16QAM	1	37	24.71	24.82	24.97	24.76	24.85	26.00
15	16QAM	1	74	24.73	24.87	25.02	24.78	24.86	26.00
15	16QAM	36	0	23.74	23.80	23.89	23.64	23.71	25.00
15	16QAM	36	20	23.87	23.76	23.94	23.66	23.79	25.00
15	16QAM	36	39	23.81	23.82	24.00	23.70	23.77	25.00
15	16QAM	75	0	23.68	23.67	23.82	23.56	23.60	25.00
15	64QAM	1	0	23.89	23.90	23.95	23.75	23.76	25.00
15	64QAM	1	37	23.87	23.82	24.03	23.69	23.80	25.00
15	64QAM	1	74	23.68	23.87	24.03	23.77	23.75	25.00
15	64QAM	36	0	22.76	22.82	22.86	22.60	22.68	24.00
15	64QAM	36	20	22.81	22.85	23.04	22.78	22.79	24.00
15	64QAM	36	39	22.67	22.73	22.81	22.62	22.71	24.00
15	64QAM	75	0	22.64	22.77	22.79	22.70	22.72	24.00
15	256QAM	1	0	20.78	20.85	21.03	20.78	20.76	22.00
15	256QAM	1	37	20.81	20.88	20.94	20.80	20.92	22.00
15	256QAM	1	74	20.60	20.80	20.88	20.76	20.68	22.00
15	256QAM	36	0	20.91	21.00	20.98	20.84	21.00	22.00
15	256QAM	36	20	20.66	20.66	20.88	20.69	20.71	22.00
15	256QAM	36	39	20.90	20.84	21.09	20.77	20.84	22.00
15	256QAM	75	0	20.60	20.82	20.82	20.68	20.55	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.95	26.08	26.09	25.94	26.02	27.00
10	QPSK	1	25	25.71	25.76	25.97	25.75	25.62	27.00
10	QPSK	1	49	25.53	25.66	25.71	25.60	25.57	27.00
10	QPSK	25	0	24.71	24.85	24.94	24.72	24.67	26.00
10	QPSK	25	12	24.77	24.84	24.92	24.56	24.73	26.00
10	QPSK	25	25	24.76	24.84	24.98	24.74	24.66	26.00
10	QPSK	50	0	24.76	24.85	24.96	24.76	24.75	26.00
10	16QAM	1	0	24.78	24.89	24.99	24.80	24.77	26.00
10	16QAM	1	25	24.71	24.89	24.85	24.67	24.75	26.00
10	16QAM	1	49	24.74	24.83	24.97	24.73	24.85	26.00
10	16QAM	25	0	23.76	23.70	23.95	23.69	23.71	25.00
10	16QAM	25	12	23.83	23.79	23.99	23.75	23.83	25.00
10	16QAM	25	25	23.70	23.79	23.92	23.72	23.85	25.00
10	16QAM	50	0	23.56	23.66	23.86	23.68	23.70	25.00
10	64QAM	1	0	23.87	23.92	23.99	23.75	23.75	25.00
10	64QAM	1	25	23.81	23.87	23.94	23.69	23.89	25.00
10	64QAM	1	49	23.67	23.81	23.99	23.86	23.76	25.00
10	64QAM	25	0	22.74	22.83	22.87	22.60	22.66	24.00
10	64QAM	25	12	22.82	22.82	23.07	22.78	22.85	24.00
10	64QAM	25	25	22.73	22.66	22.80	22.62	22.72	24.00
10	64QAM	50	0	22.65	22.79	22.92	22.72	22.64	24.00
10	256QAM	1	0	20.84	20.93	20.98	20.75	20.72	22.00
10	256QAM	1	25	20.80	20.88	20.96	20.82	20.82	22.00
10	256QAM	1	49	20.72	20.80	20.87	20.70	20.67	22.00



10	256QAM	25	0	20.89	21.03	21.02	20.85	20.91	22.00
10	256QAM	25	12	20.72	20.66	20.86	20.72	20.75	22.00
10	256QAM	25	25	20.93	20.91	20.99	20.85	20.86	22.00
10	256QAM	50	0	20.61	20.74	20.81	20.65	20.56	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	25.95	26.10	26.17	25.90	26.03	27.00
5	QPSK	1	12	25.70	25.78	25.96	25.66	25.72	27.00
5	QPSK	1	24	25.58	25.68	25.70	25.57	25.57	27.00
5	QPSK	12	0	24.70	24.78	24.91	24.77	24.68	26.00
5	QPSK	12	7	24.74	24.74	24.82	24.60	24.73	26.00
5	QPSK	12	13	24.85	24.79	25.01	24.65	24.74	26.00
5	QPSK	25	0	24.74	24.75	24.97	24.70	24.75	26.00
5	16QAM	1	0	24.85	24.86	25.07	24.77	24.85	26.00
5	16QAM	1	12	24.71	24.91	24.88	24.74	24.79	26.00
5	16QAM	1	24	24.77	24.81	25.06	24.71	24.80	26.00
5	16QAM	12	0	23.80	23.72	23.90	23.63	23.68	25.00
5	16QAM	12	7	23.76	23.73	24.00	23.64	23.80	25.00
5	16QAM	12	13	23.74	23.78	23.93	23.76	23.87	25.00
5	16QAM	25	0	23.60	23.63	23.90	23.61	23.66	25.00
5	64QAM	1	0	23.80	23.97	23.95	23.78	23.81	25.00
5	64QAM	1	12	23.83	23.81	24.05	23.72	23.82	25.00
5	64QAM	1	24	23.70	23.86	24.01	23.75	23.70	25.00
5	64QAM	12	0	22.72	22.81	22.80	22.53	22.65	24.00
5	64QAM	12	7	22.81	22.92	23.01	22.83	22.76	24.00
5	64QAM	12	13	22.73	22.69	22.90	22.58	22.70	24.00
5	64QAM	25	0	22.74	22.73	22.83	22.78	22.73	24.00
5	256QAM	1	0	20.86	20.96	20.99	20.74	20.79	22.00
5	256QAM	1	12	20.85	20.92	20.99	20.84	20.79	22.00
5	256QAM	1	24	20.64	20.77	20.88	20.71	20.61	22.00
5	256QAM	12	0	20.87	20.91	21.01	20.79	21.00	22.00
5	256QAM	12	7	20.78	20.64	20.80	20.68	20.69	22.00
5	256QAM	12	13	20.86	20.90	21.10	20.87	20.83	22.00
5	256QAM	25	0	20.63	20.84	20.81	20.69	20.68	22.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 3_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.37	23.40	23.47	23.42	23.27	24.00
20	QPSK	1	49	23.15	23.26	23.39	23.31	23.05	24.00
20	QPSK	1	99	23.06	23.21	23.29	23.18	22.98	24.00
20	QPSK	50	0	22.44	22.46	22.60	22.49	22.37	23.00
20	QPSK	50	24	22.38	22.41	22.58	22.45	22.34	23.00
20	QPSK	50	50	22.33	22.36	22.51	22.44	22.31	23.00
20	QPSK	100	0	22.29	22.41	22.52	22.35	22.26	23.00
20	16QAM	1	0	22.03	22.15	22.26	22.11	22.05	23.00
20	16QAM	1	49	21.97	21.93	22.12	21.95	21.89	23.00
20	16QAM	1	99	21.85	21.91	22.04	21.86	21.74	23.00
20	16QAM	50	0	20.90	20.94	21.10	20.99	20.85	22.00
20	16QAM	50	24	20.95	21.03	21.13	20.99	20.86	22.00
20	16QAM	50	50	20.89	20.91	21.09	21.02	20.88	22.00
20	16QAM	100	0	20.89	20.98	21.10	20.92	20.83	22.00
20	64QAM	1	0	21.05	20.99	21.16	21.06	20.87	22.00
20	64QAM	1	49	21.01	21.06	21.15	21.05	20.88	22.00
20	64QAM	1	99	20.79	20.76	20.96	20.88	20.69	22.00
20	64QAM	50	0	19.88	19.95	20.08	19.95	19.84	21.00
20	64QAM	50	24	19.93	19.99	20.14	20.05	19.84	21.00
20	64QAM	50	50	19.93	19.82	20.03	19.97	19.72	21.00
20	64QAM	100	0	19.98	19.89	20.09	19.98	19.91	21.00
20	256QAM	1	0	17.93	17.83	18.02	17.86	17.85	19.00
20	256QAM	1	49	17.89	17.96	18.06	17.99	17.77	19.00
20	256QAM	1	99	17.74	17.69	17.88	17.80	17.62	19.00
20	256QAM	50	0	17.93	17.97	18.05	17.97	17.82	19.00
20	256QAM	50	24	17.93	17.92	18.12	18.06	17.95	19.00
20	256QAM	50	50	17.95	17.93	18.07	18.02	17.85	19.00
20	256QAM	100	0	17.85	17.95	18.07	17.94	17.85	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.24	23.28	23.39	23.28	23.24	24.00



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15	QPSK	1	37	23.02	23.17	23.27	23.20	22.95	24.00
15	QPSK	1	74	23.00	23.18	23.16	23.09	22.87	24.00
15	QPSK	36	0	22.33	22.37	22.56	22.45	22.36	23.00
15	QPSK	36	20	22.34	22.38	22.54	22.39	22.21	23.00
15	QPSK	36	39	22.31	22.34	22.36	22.33	22.21	23.00
15	QPSK	75	0	22.14	22.30	22.47	22.29	22.22	23.00
15	16QAM	1	0	21.96	22.07	22.11	22.08	21.98	23.00
15	16QAM	1	37	21.83	21.84	22.06	21.86	21.80	23.00
15	16QAM	1	74	21.71	21.89	21.96	21.84	21.71	23.00
15	16QAM	36	0	20.77	20.85	21.03	20.89	20.84	22.00
15	16QAM	36	20	20.86	20.92	21.11	20.91	20.78	22.00
15	16QAM	36	39	20.85	20.80	21.07	20.97	20.76	22.00
15	16QAM	75	0	20.80	20.85	20.98	20.82	20.78	22.00
15	64QAM	1	0	21.00	20.86	21.06	21.04	20.75	22.00
15	64QAM	1	37	20.92	20.97	21.01	20.94	20.78	22.00
15	64QAM	1	74	20.72	20.63	20.89	20.80	20.59	22.00
15	64QAM	36	0	19.74	19.85	20.06	19.84	19.78	21.00
15	64QAM	36	20	19.80	19.85	20.08	20.04	19.76	21.00
15	64QAM	36	39	19.88	19.73	20.00	19.84	19.58	21.00
15	64QAM	75	0	19.95	19.81	20.05	19.85	19.80	21.00
15	256QAM	1	0	17.88	17.71	17.99	17.77	17.84	19.00
15	256QAM	1	37	17.86	17.83	17.95	17.93	17.67	19.00
15	256QAM	1	74	17.63	17.63	17.87	17.72	17.55	19.00
15	256QAM	36	0	17.84	17.83	17.96	17.91	17.78	19.00
15	256QAM	36	20	17.81	17.78	18.07	17.93	17.92	19.00
15	256QAM	36	39	17.83	17.82	17.96	17.96	17.77	19.00
15	256QAM	75	0	17.72	17.92	17.99	17.81	17.71	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.33	23.29	23.33	23.36	23.15	24.00
10	QPSK	1	25	23.14	23.24	23.24	23.23	22.99	24.00
10	QPSK	1	49	22.92	23.18	23.15	23.14	22.91	24.00
10	QPSK	25	0	22.39	22.27	22.57	22.43	22.23	23.00
10	QPSK	25	12	22.24	22.39	22.54	22.42	22.27	23.00
10	QPSK	25	25	22.27	22.27	22.40	22.36	22.24	23.00
10	QPSK	50	0	22.19	22.28	22.50	22.26	22.12	23.00
10	16QAM	1	0	21.88	22.04	22.19	22.00	22.03	23.00
10	16QAM	1	25	21.83	21.83	21.98	21.84	21.78	23.00
10	16QAM	1	49	21.82	21.80	21.96	21.81	21.60	23.00
10	16QAM	25	0	20.86	20.82	21.02	20.91	20.80	22.00
10	16QAM	25	12	20.89	20.97	21.04	20.93	20.79	22.00
10	16QAM	25	25	20.87	20.88	21.00	20.96	20.77	22.00
10	16QAM	50	0	20.83	20.84	20.98	20.89	20.73	22.00
10	64QAM	1	0	20.97	20.92	21.13	20.96	20.83	22.00
10	64QAM	1	25	21.00	20.94	21.01	20.96	20.78	22.00
10	64QAM	1	49	20.66	20.62	20.88	20.74	20.67	22.00
10	64QAM	25	0	19.76	19.92	20.02	19.80	19.79	21.00
10	64QAM	25	12	19.90	19.91	20.00	19.94	19.72	21.00
10	64QAM	25	25	19.82	19.73	19.91	19.85	19.70	21.00
10	64QAM	50	0	19.91	19.76	20.03	19.96	19.80	21.00
10	256QAM	1	0	17.80	17.74	17.94	17.78	17.73	19.00
10	256QAM	1	25	17.77	17.92	17.94	17.97	17.70	19.00
10	256QAM	1	49	17.63	17.67	17.75	17.75	17.47	19.00
10	256QAM	25	0	17.79	17.88	17.95	17.85	17.74	19.00
10	256QAM	25	12	17.84	17.86	18.02	18.03	17.90	19.00
10	256QAM	25	25	17.89	17.88	18.00	17.94	17.72	19.00
10	256QAM	50	0	17.71	17.82	18.06	17.93	17.76	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	23.29	23.26	23.39	23.34	23.24	24.00
5	QPSK	1	12	23.03	23.20	23.37	23.23	23.03	24.00
5	QPSK	1	24	23.00	23.08	23.23	23.14	22.95	24.00
5	QPSK	12	0	22.42	22.30	22.50	22.36	22.23	23.00
5	QPSK	12	7	22.24	22.33	22.48	22.41	22.28	23.00
5	QPSK	12	13	22.23	22.25	22.48	22.30	22.27	23.00
5	QPSK	25	0	22.15	22.35	22.39	22.33	22.22	23.00
5	16QAM	1	0	21.92	22.05	22.19	22.07	21.94	23.00
5	16QAM	1	12	21.91	21.80	22.09	21.81	21.81	23.00
5	16QAM	1	24	21.80	21.88	22.02	21.83	21.65	23.00
5	16QAM	12	0	20.87	20.82	21.03	20.85	20.71	22.00
5	16QAM	12	7	20.89	20.93	21.00	20.95	20.79	22.00
5	16QAM	12	13	20.80	20.83	21.04	20.95	20.82	22.00
5	16QAM	25	0	20.79	20.85	20.98	20.88	20.81	22.00
5	64QAM	1	0	21.00	20.93	21.11	20.98	20.82	22.00
5	64QAM	1	12	20.99	21.00	21.01	21.01	20.74	22.00
5	64QAM	1	24	20.71	20.74	20.84	20.81	20.56	22.00



5	64QAM	12	0	19.74	19.93	19.96	19.83	19.83	21.00
5	64QAM	12	7	19.78	19.92	20.05	19.94	19.81	21.00
5	64QAM	12	13	19.89	19.74	19.89	19.85	19.70	21.00
5	64QAM	25	0	19.97	19.74	20.00	19.89	19.84	21.00
5	256QAM	1	0	17.83	17.81	17.88	17.81	17.74	19.00
5	256QAM	1	12	17.84	17.88	17.98	17.87	17.65	19.00
5	256QAM	1	24	17.65	17.68	17.85	17.66	17.57	19.00
5	256QAM	12	0	17.90	17.82	17.99	17.86	17.70	19.00
5	256QAM	12	7	17.88	17.89	18.10	17.92	17.89	19.00
5	256QAM	12	13	17.81	17.86	18.06	17.90	17.80	19.00
5	256QAM	25	0	17.70	17.81	17.97	17.83	17.72	19.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 3_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.15	26.17	26.33	26.09	26.02	27.00
20	QPSK	1	49	26.07	26.09	26.30	25.97	25.92	27.00
20	QPSK	1	99	25.76	25.81	26.01	25.64	25.62	27.00
20	QPSK	50	0	25.20	25.16	25.39	25.14	24.95	26.00
20	QPSK	50	24	25.14	25.11	25.31	25.09	24.91	26.00
20	QPSK	50	50	25.03	25.10	25.35	25.04	24.94	26.00
20	QPSK	100	0	25.03	25.13	25.32	24.95	25.00	26.00
20	16QAM	1	0	25.33	25.26	25.53	25.17	25.15	26.00
20	16QAM	1	49	25.37	25.32	25.56	25.23	25.16	26.00
20	16QAM	1	99	25.04	25.14	25.36	25.10	24.92	26.00
20	16QAM	50	0	24.10	24.14	24.31	24.02	23.96	25.00
20	16QAM	50	24	24.20	24.18	24.39	24.02	23.98	25.00
20	16QAM	50	50	24.14	24.08	24.34	24.05	23.93	25.00
20	16QAM	100	0	24.17	24.09	24.36	24.01	24.01	25.00
20	64QAM	1	0	24.34	24.38	24.56	24.22	24.16	25.00
20	64QAM	1	49	24.39	24.34	24.63	24.31	24.26	25.00
20	64QAM	1	99	24.22	24.22	24.40	24.05	24.03	25.00
20	64QAM	50	0	23.07	23.10	23.29	22.96	22.99	24.00
20	64QAM	50	24	23.09	23.09	23.37	23.10	22.95	24.00
20	64QAM	50	50	23.17	23.10	23.35	23.03	22.95	24.00
20	64QAM	100	0	23.04	23.18	23.34	23.04	23.05	24.00
20	256QAM	1	0	21.25	21.25	21.45	21.18	21.15	22.00
20	256QAM	1	49	21.34	21.36	21.56	21.27	21.28	22.00
20	256QAM	1	99	21.08	21.13	21.34	21.06	21.02	22.00
20	256QAM	50	0	21.10	21.14	21.31	21.05	20.98	22.00
20	256QAM	50	24	21.14	21.15	21.37	21.06	21.00	22.00
20	256QAM	50	50	21.06	21.13	21.29	21.00	20.93	22.00
20	256QAM	100	0	21.15	21.08	21.32	21.11	20.92	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.07	26.08	26.21	25.96	25.91	27.00
15	QPSK	1	37	26.04	25.94	26.22	25.92	25.83	27.00
15	QPSK	1	74	25.68	25.79	25.97	25.56	25.49	27.00
15	QPSK	36	0	24.97	25.07	25.29	25.02	24.80	26.00
15	QPSK	36	20	25.11	25.08	25.28	25.12	24.91	26.00
15	QPSK	36	39	24.98	25.05	25.33	25.01	24.89	26.00
15	QPSK	75	0	24.97	25.08	25.21	24.80	24.93	26.00
15	16QAM	1	0	25.25	25.23	25.40	25.15	25.09	26.00
15	16QAM	1	37	25.30	25.28	25.47	25.10	25.06	26.00
15	16QAM	1	74	24.92	25.07	25.25	25.04	24.87	26.00
15	16QAM	36	0	23.96	24.10	24.22	23.92	23.82	25.00
15	16QAM	36	20	24.15	24.11	24.29	23.95	23.83	25.00
15	16QAM	36	39	24.07	23.94	24.32	23.91	23.79	25.00
15	16QAM	75	0	24.08	24.00	24.25	23.94	23.91	25.00
15	64QAM	1	0	24.25	24.26	24.53	24.18	24.12	25.00
15	64QAM	1	37	24.30	24.32	24.56	24.16	24.17	25.00
15	64QAM	1	74	24.13	24.10	24.37	23.96	23.95	25.00
15	64QAM	36	0	22.93	23.03	23.26	22.94	22.87	24.00
15	64QAM	36	20	22.95	23.04	23.26	23.05	22.85	24.00
15	64QAM	36	39	23.03	23.00	23.30	22.98	22.81	24.00
15	64QAM	75	0	22.93	23.12	23.23	22.91	22.94	24.00
15	256QAM	1	0	21.10	21.21	21.38	21.15	21.10	22.00
15	256QAM	1	37	21.32	21.26	21.43	21.21	21.22	22.00
15	256QAM	1	74	21.06	21.02	21.21	20.96	20.93	22.00



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15	256QAM	36	0	20.96	21.09	21.19	20.91	20.87	22.00
15	256QAM	36	20	21.12	21.12	21.35	20.91	20.86	22.00
15	256QAM	36	39	21.03	21.12	21.16	20.92	20.87	22.00
15	256QAM	75	0	21.12	21.05	21.26	20.96	20.90	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.13	26.14	26.28	25.97	25.90	27.00
10	QPSK	1	25	25.98	26.06	26.21	25.90	25.79	27.00
10	QPSK	1	49	25.74	25.66	25.90	25.57	25.53	27.00
10	QPSK	25	0	24.96	25.00	25.18	24.96	24.82	26.00
10	QPSK	25	12	25.15	25.11	25.33	25.08	24.86	26.00
10	QPSK	25	25	24.92	24.97	25.29	25.01	24.84	26.00
10	QPSK	50	0	24.89	25.01	25.28	24.82	24.93	26.00
10	16QAM	1	0	25.29	25.25	25.49	25.09	25.02	26.00
10	16QAM	1	25	25.32	25.28	25.52	25.13	25.10	26.00
10	16QAM	1	49	25.00	25.11	25.35	25.00	24.89	26.00
10	16QAM	25	0	24.03	24.11	24.17	23.90	23.94	25.00
10	16QAM	25	12	24.12	24.13	24.35	23.94	23.84	25.00
10	16QAM	25	25	24.09	24.02	24.20	23.92	23.89	25.00
10	16QAM	50	0	24.08	23.97	24.32	23.96	24.00	25.00
10	64QAM	1	0	24.19	24.28	24.43	24.15	24.13	25.00
10	64QAM	1	25	24.35	24.30	24.53	24.23	24.18	25.00
10	64QAM	1	49	24.07	24.18	24.36	24.03	23.99	25.00
10	64QAM	25	0	22.94	23.06	23.20	22.90	22.93	24.00
10	64QAM	25	12	23.00	23.04	23.29	23.02	22.88	24.00
10	64QAM	25	25	23.10	22.99	23.27	22.98	22.91	24.00
10	64QAM	50	0	22.99	23.14	23.31	23.02	22.91	24.00
10	256QAM	1	0	21.14	21.10	21.39	21.09	21.09	22.00
10	256QAM	1	25	21.28	21.28	21.46	21.24	21.13	22.00
10	256QAM	1	49	21.00	21.05	21.28	20.98	20.87	22.00
10	256QAM	25	0	21.00	20.99	21.20	20.94	20.96	22.00
10	256QAM	25	12	21.10	21.13	21.33	21.03	20.98	22.00
10	256QAM	25	25	20.92	21.10	21.27	20.85	20.86	22.00
10	256QAM	50	0	21.10	20.98	21.21	21.04	20.81	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	26.09	26.03	26.26	25.96	25.93	27.00
5	QPSK	1	12	26.03	26.08	26.25	25.92	25.85	27.00
5	QPSK	1	24	25.75	25.67	26.00	25.52	25.56	27.00
5	QPSK	12	0	24.87	25.00	25.29	25.00	24.92	26.00
5	QPSK	12	7	25.11	25.12	25.27	25.12	24.86	26.00
5	QPSK	12	13	24.91	25.06	25.32	24.96	24.82	26.00
5	QPSK	25	0	25.01	25.08	25.23	24.80	24.92	26.00
5	16QAM	1	0	25.31	25.25	25.48	25.08	25.09	26.00
5	16QAM	1	12	25.33	25.23	25.42	25.14	25.04	26.00
5	16QAM	1	24	24.91	25.08	25.27	25.01	24.78	26.00
5	16QAM	12	0	24.06	24.13	24.20	23.99	23.84	25.00
5	16QAM	12	7	24.06	24.08	24.34	23.99	23.89	25.00
5	16QAM	12	13	24.00	23.97	24.30	23.92	23.86	25.00
5	16QAM	25	0	24.04	24.01	24.33	24.00	23.91	25.00
5	64QAM	1	0	24.21	24.34	24.51	24.09	24.08	25.00
5	64QAM	1	12	24.30	24.27	24.56	24.29	24.23	25.00
5	64QAM	1	24	24.13	24.13	24.31	23.94	23.88	25.00
5	64QAM	12	0	22.93	23.06	23.17	22.88	22.91	24.00
5	64QAM	12	7	22.95	23.03	23.33	23.07	22.91	24.00
5	64QAM	12	13	23.07	23.04	23.21	22.91	22.87	24.00
5	64QAM	25	0	22.95	23.15	23.24	22.99	22.93	24.00
5	256QAM	1	0	21.11	21.18	21.36	21.10	21.01	22.00
5	256QAM	1	12	21.24	21.28	21.46	21.25	21.14	22.00
5	256QAM	1	24	21.06	21.10	21.21	21.02	20.99	22.00
5	256QAM	12	0	21.09	21.10	21.27	20.96	20.84	22.00
5	256QAM	12	7	21.04	21.06	21.29	20.91	20.90	22.00
5	256QAM	12	13	20.93	20.99	21.19	20.87	20.80	22.00
5	256QAM	25	0	21.04	20.95	21.20	21.08	20.91	22.00

**【LTE Band 41__FCC (2496~2690MHz)_Ant 3_DSI 2】**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	18.50
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	17.55	17.59	17.62	17.59	17.51	18.50
20	QPSK	1	49	17.14	17.15	17.33	17.19	17.12	18.50
20	QPSK	1	99	17.40	17.41	17.48	17.35	17.33	18.50
20	QPSK	50	0	17.41	17.44	17.53	17.51	17.47	18.50
20	QPSK	50	24	17.19	17.21	17.32	17.28	17.10	18.50
20	QPSK	50	50	17.14	17.20	17.36	17.25	17.22	18.50
20	QPSK	100	0	17.43	17.46	17.50	17.42	17.45	18.50
20	16QAM	1	0	17.41	17.43	17.54	17.43	17.38	18.50
20	16QAM	1	49	17.38	17.35	17.49	17.34	17.35	18.50
20	16QAM	1	99	17.15	17.24	17.33	17.19	17.17	18.50
20	16QAM	50	0	17.26	17.28	17.40	17.27	17.20	18.50
20	16QAM	50	24	17.15	17.21	17.32	17.26	17.17	18.50
20	16QAM	50	50	17.18	17.19	17.32	17.18	17.14	18.50
20	16QAM	100	0	17.37	17.31	17.49	17.45	17.27	18.50
20	64QAM	1	0	17.19	17.27	17.38	17.29	17.16	18.50
20	64QAM	1	49	17.22	17.27	17.43	17.31	17.24	18.50
20	64QAM	1	99	17.33	17.47	17.53	17.38	17.38	18.50
20	64QAM	50	0	17.34	17.30	17.46	17.36	17.31	18.50
20	64QAM	50	24	17.12	17.22	17.33	17.21	17.13	18.50
20	64QAM	50	50	17.21	17.31	17.38	17.26	17.13	18.50
20	64QAM	100	0	17.21	17.16	17.33	17.18	17.11	18.50
20	256QAM	1	0	17.33	17.40	17.51	17.38	17.27	18.50
20	256QAM	1	49	17.16	17.24	17.37	17.29	17.19	18.50
20	256QAM	1	99	17.32	17.32	17.42	17.25	17.16	18.50
20	256QAM	50	0	17.24	17.29	17.41	17.35	17.25	18.50
20	256QAM	50	24	17.31	17.36	17.42	17.32	17.22	18.50
20	256QAM	50	50	17.31	17.23	17.40	17.25	17.21	18.50
20	256QAM	100	0	17.34	17.33	17.46	17.31	17.21	18.50
Channel				39725	40173	40620	41068	41515	18.50
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	17.43	17.49	17.53	17.58	17.41	18.50
15	QPSK	1	37	17.08	17.13	17.31	17.13	17.01	18.50
15	QPSK	1	74	17.38	17.30	17.34	17.34	17.23	18.50
15	QPSK	36	0	17.32	17.38	17.50	17.47	17.37	18.50
15	QPSK	36	20	17.09	17.06	17.29	17.20	17.02	18.50
15	QPSK	36	39	17.07	17.17	17.28	17.21	17.08	18.50
15	QPSK	75	0	17.34	17.35	17.47	17.35	17.37	18.50
15	16QAM	1	0	17.36	17.29	17.48	17.29	17.30	18.50
15	16QAM	1	37	17.29	17.21	17.38	17.26	17.32	18.50
15	16QAM	1	74	17.12	17.20	17.19	17.05	17.16	18.50
15	16QAM	36	0	17.23	17.14	17.39	17.16	17.19	18.50
15	16QAM	36	20	17.13	17.09	17.27	17.12	17.11	18.50
15	16QAM	36	39	17.13	17.16	17.22	17.04	17.06	18.50
15	16QAM	75	0	17.25	17.28	17.46	17.35	17.24	18.50
15	64QAM	1	0	17.06	17.19	17.24	17.26	17.04	18.50
15	64QAM	1	37	17.12	17.16	17.31	17.19	17.18	18.50
15	64QAM	1	74	17.28	17.38	17.45	17.26	17.33	18.50
15	64QAM	36	0	17.25	17.16	17.45	17.26	17.26	18.50
15	64QAM	36	20	17.09	17.14	17.28	17.09	17.08	18.50
15	64QAM	36	39	17.09	17.29	17.36	17.23	17.08	18.50
15	64QAM	75	0	17.18	17.06	17.22	17.06	17.03	18.50
15	256QAM	1	0	17.18	17.30	17.43	17.31	17.16	18.50
15	256QAM	1	37	17.04	17.09	17.26	17.22	17.16	18.50
15	256QAM	1	74	17.24	17.24	17.34	17.16	17.14	18.50
15	256QAM	36	0	17.20	17.20	17.36	17.24	17.13	18.50
15	256QAM	36	20	17.27	17.26	17.40	17.23	17.20	18.50
15	256QAM	36	39	17.27	17.10	17.27	17.23	17.20	18.50
15	256QAM	75	0	17.22	17.26	17.38	17.17	17.07	18.50
Channel				39700	40160	40620	41080	41540	18.50
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	17.50	17.53	17.51	17.48	17.37	18.50
10	QPSK	1	25	17.04	17.00	17.32	17.14	17.07	18.50
10	QPSK	1	49	17.30	17.36	17.41	17.21	17.23	18.50
10	QPSK	25	0	17.38	17.35	17.45	17.39	17.37	18.50
10	QPSK	25	12	17.17	17.08	17.25	17.17	16.99	18.50
10	QPSK	25	25	17.05	17.17	17.22	17.19	17.17	18.50
10	QPSK	50	0	17.39	17.44	17.40	17.40	17.38	18.50
10	16QAM	1	0	17.33	17.29	17.46	17.31	17.25	18.50
10	16QAM	1	25	17.29	17.29	17.37	17.23	17.25	18.50



10	16QAM	1	49	17.13	17.12	17.29	17.05	17.12	18.50
10	16QAM	25	0	17.19	17.16	17.39	17.25	17.13	18.50
10	16QAM	25	12	17.11	17.12	17.28	17.21	17.05	18.50
10	16QAM	25	25	17.10	17.15	17.17	17.15	17.01	18.50
10	16QAM	50	0	17.34	17.30	17.48	17.35	17.18	18.50
10	64QAM	1	0	17.11	17.15	17.30	17.27	17.12	18.50
10	64QAM	1	25	17.20	17.14	17.38	17.26	17.10	18.50
10	64QAM	1	49	17.30	17.43	17.45	17.27	17.30	18.50
10	64QAM	25	0	17.31	17.24	17.42	17.32	17.28	18.50
10	64QAM	25	12	17.05	17.15	17.18	17.10	17.02	18.50
10	64QAM	25	25	17.15	17.19	17.36	17.22	17.00	18.50
10	64QAM	50	0	17.14	17.05	17.27	17.14	16.99	18.50
10	256QAM	1	0	17.30	17.36	17.42	17.32	17.16	18.50
10	256QAM	1	25	17.02	17.17	17.36	17.16	17.10	18.50
10	256QAM	1	49	17.25	17.20	17.40	17.20	17.05	18.50
10	256QAM	25	0	17.15	17.21	17.30	17.24	17.20	18.50
10	256QAM	25	12	17.27	17.32	17.27	17.20	17.20	18.50
10	256QAM	25	25	17.26	17.12	17.32	17.16	17.09	18.50
10	256QAM	50	0	17.33	17.18	17.33	17.29	17.14	18.50
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	17.48	17.56	17.60	17.44	17.39	18.50
5	QPSK	1	12	17.10	17.10	17.27	17.07	16.99	18.50
5	QPSK	1	24	17.38	17.36	17.38	17.29	17.25	18.50
5	QPSK	12	0	17.31	17.29	17.47	17.44	17.42	18.50
5	QPSK	12	7	17.14	17.12	17.26	17.19	17.05	18.50
5	QPSK	12	13	17.03	17.16	17.23	17.18	17.09	18.50
5	QPSK	25	0	17.30	17.38	17.45	17.33	17.31	18.50
5	16QAM	1	0	17.28	17.29	17.44	17.29	17.31	18.50
5	16QAM	1	12	17.32	17.33	17.48	17.21	17.21	18.50
5	16QAM	1	24	17.00	17.16	17.26	17.04	17.11	18.50
5	16QAM	12	0	17.21	17.22	17.31	17.21	17.06	18.50
5	16QAM	12	7	17.11	17.07	17.17	17.21	17.12	18.50
5	16QAM	12	13	17.16	17.10	17.25	17.04	17.00	18.50
5	16QAM	25	0	17.35	17.18	17.34	17.42	17.13	18.50
5	64QAM	1	0	17.05	17.18	17.34	17.21	17.05	18.50
5	64QAM	1	12	17.20	17.19	17.32	17.18	17.21	18.50
5	64QAM	1	24	17.25	17.36	17.43	17.33	17.28	18.50
5	64QAM	12	0	17.26	17.18	17.35	17.28	17.22	18.50
5	64QAM	12	7	17.09	17.18	17.24	17.15	17.12	18.50
5	64QAM	12	13	17.08	17.23	17.37	17.19	17.05	18.50
5	64QAM	25	0	17.07	17.11	17.30	17.07	17.01	18.50
5	256QAM	1	0	17.21	17.34	17.47	17.26	17.18	18.50
5	256QAM	1	12	17.07	17.13	17.35	17.25	17.16	18.50
5	256QAM	1	24	17.28	17.19	17.33	17.22	17.06	18.50
5	256QAM	12	0	17.20	17.18	17.31	17.33	17.14	18.50
5	256QAM	12	7	17.23	17.25	17.34	17.22	17.09	18.50
5	256QAM	12	13	17.19	17.11	17.37	17.17	17.09	18.50
5	256QAM	25	0	17.28	17.27	17.38	17.17	17.08	18.50

【LTE Band 41__FCC (2496~2690MHz)_Ant 3_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	18.52	18.48	18.59	18.55	18.46	19.20
20	QPSK	1	49	18.31	18.31	18.43	18.26	18.26	19.20
20	QPSK	1	99	18.28	18.30	18.45	18.31	18.28	19.20
20	QPSK	50	0	18.32	18.33	18.38	18.29	18.35	19.20
20	QPSK	50	24	18.24	18.12	18.36	18.28	18.13	19.20
20	QPSK	50	50	18.19	18.08	18.30	18.25	18.14	19.20
20	QPSK	100	0	18.27	18.36	18.45	18.40	18.32	19.20
20	16QAM	1	0	18.15	18.08	18.30	18.24	18.04	19.20
20	16QAM	1	49	18.32	18.26	18.43	18.36	18.20	19.20
20	16QAM	1	99	18.17	18.23	18.38	18.21	18.23	19.20
20	16QAM	50	0	18.12	18.10	18.31	18.18	18.05	19.20
20	16QAM	50	24	18.18	18.23	18.37	18.24	18.19	19.20
20	16QAM	50	50	18.19	18.20	18.38	18.21	18.16	19.20
20	16QAM	100	0	18.27	18.26	18.44	18.28	18.25	19.20
20	64QAM	1	0	18.38	18.28	18.47	18.29	18.20	19.20
20	64QAM	1	49	18.13	18.10	18.32	18.20	18.11	19.20



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20	64QAM	1	99	18.24	18.20	18.34	18.26	18.19	19.20
20	64QAM	50	0	18.18	18.20	18.34	18.16	18.12	19.20
20	64QAM	50	24	18.13	18.17	18.32	18.15	18.12	19.20
20	64QAM	50	50	18.39	18.31	18.48	18.35	18.23	19.20
20	64QAM	100	0	18.20	18.10	18.35	18.28	18.08	19.20
20	256QAM	1	0	18.18	18.16	18.35	18.17	18.18	19.20
20	256QAM	1	49	18.16	18.10	18.34	18.16	18.11	19.20
20	256QAM	1	99	18.19	18.17	18.39	18.32	18.20	19.20
20	256QAM	50	0	18.18	18.06	18.31	18.13	18.10	19.20
20	256QAM	50	24	18.26	18.31	18.46	18.27	18.27	19.20
20	256QAM	50	50	18.19	18.25	18.37	18.21	18.15	19.20
20	256QAM	100	0	18.25	18.15	18.36	18.25	18.17	19.20
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.38	18.43	18.58	18.46	18.39	19.20
15	QPSK	1	37	18.22	18.27	18.31	18.21	18.14	19.20
15	QPSK	1	74	18.24	18.18	18.37	18.17	18.21	19.20
15	QPSK	36	0	18.24	18.27	18.27	18.18	18.34	19.20
15	QPSK	36	20	18.22	18.11	18.25	18.25	18.02	19.20
15	QPSK	36	39	18.12	17.95	18.15	18.23	18.03	19.20
15	QPSK	75	0	18.22	18.30	18.35	18.37	19.00	19.20
15	16QAM	1	0	18.05	17.98	18.20	18.10	17.99	19.20
15	16QAM	1	37	18.26	18.15	18.41	18.24	18.05	19.20
15	16QAM	1	74	18.02	18.09	18.37	18.12	18.17	19.20
15	16QAM	36	0	17.99	18.07	18.16	18.15	17.96	19.20
15	16QAM	36	20	18.12	18.21	18.27	18.22	18.06	19.20
15	16QAM	36	39	18.05	18.07	18.37	18.19	18.01	19.20
15	16QAM	75	0	18.16	18.14	18.41	18.21	18.17	19.20
15	64QAM	1	0	18.32	18.16	18.40	18.15	18.16	19.20
15	64QAM	1	37	18.06	18.04	18.26	18.09	17.98	19.20
15	64QAM	1	74	18.21	18.06	18.29	18.12	18.16	19.20
15	64QAM	36	0	18.10	18.17	18.26	18.05	17.99	19.20
15	64QAM	36	20	18.03	18.06	18.30	18.11	18.00	19.20
15	64QAM	36	39	18.25	18.18	18.34	18.29	18.11	19.20
15	64QAM	75	0	18.06	17.99	18.32	18.16	17.97	19.20
15	256QAM	1	0	18.07	18.09	18.28	18.12	18.15	19.20
15	256QAM	1	37	18.07	17.96	18.21	18.12	17.99	19.20
15	256QAM	1	74	18.08	18.04	18.34	18.30	18.08	19.20
15	256QAM	36	0	18.14	17.92	18.18	18.04	18.03	19.20
15	256QAM	36	20	18.19	18.16	18.31	18.24	18.25	19.20
15	256QAM	36	39	18.16	18.19	18.29	18.10	18.03	19.20
15	256QAM	75	0	18.17	18.10	18.24	18.18	18.12	19.20
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.43	18.39	18.55	18.52	18.43	19.20
10	QPSK	1	25	18.19	18.28	18.30	18.21	18.24	19.20
10	QPSK	1	49	18.20	18.18	18.43	18.16	18.21	19.20
10	QPSK	25	0	18.29	18.22	18.30	18.26	18.21	19.20
10	QPSK	25	12	18.16	17.98	18.33	18.19	18.11	19.20
10	QPSK	25	25	18.17	17.96	18.17	18.21	18.03	19.20
10	QPSK	50	0	18.17	18.26	18.43	18.27	19.00	19.20
10	16QAM	1	0	18.04	18.02	18.25	18.12	17.98	19.20
10	16QAM	1	25	18.26	18.13	18.40	18.35	18.18	19.20
10	16QAM	1	49	18.08	18.19	18.36	18.11	18.22	19.20
10	16QAM	25	0	18.02	18.06	18.17	18.07	17.96	19.20
10	16QAM	25	12	18.07	18.12	18.33	18.14	18.08	19.20
10	16QAM	25	25	18.16	18.08	18.30	18.09	18.10	19.20
10	16QAM	50	0	18.17	18.20	18.32	18.23	18.10	19.20
10	64QAM	1	0	18.30	18.14	18.33	18.23	18.09	19.20
10	64QAM	1	25	18.02	17.99	18.27	18.07	18.02	19.20
10	64QAM	1	49	18.18	18.18	18.32	18.22	18.08	19.20
10	64QAM	25	0	18.15	18.06	18.26	18.06	17.99	19.20
10	64QAM	25	12	18.08	18.14	18.17	18.08	18.07	19.20
10	64QAM	25	25	18.31	18.21	18.43	18.34	18.13	19.20
10	64QAM	50	0	18.15	18.02	18.25	18.22	18.01	19.20
10	256QAM	1	0	18.15	18.02	18.25	18.14	18.16	19.20
10	256QAM	1	25	18.12	18.00	18.25	18.05	18.07	19.20
10	256QAM	1	49	18.11	18.16	18.25	18.26	18.11	19.20
10	256QAM	25	0	18.16	17.95	18.29	18.07	18.05	19.20
10	256QAM	25	12	18.16	18.29	18.40	18.14	18.13	19.20
10	256QAM	25	25	18.17	18.13	18.25	18.20	18.02	19.20
10	256QAM	50	0	18.12	18.13	18.33	18.22	18.07	19.20
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	18.43	18.44	18.51	18.53	18.43	19.20



5	QPSK	1	12	18.18	18.17	18.39	18.14	18.16	19.20
5	QPSK	1	24	18.19	18.18	18.37	18.17	18.19	19.20
5	QPSK	12	0	18.19	18.31	18.25	18.20	18.32	19.20
5	QPSK	12	7	18.20	18.02	18.33	18.18	17.99	19.20
5	QPSK	12	13	18.13	17.97	18.28	18.17	17.99	19.20
5	QPSK	25	0	18.23	18.22	18.33	18.34	18.99	19.20
5	16QAM	1	0	18.03	17.95	18.23	18.09	17.98	19.20
5	16QAM	1	12	18.19	18.17	18.41	18.29	18.15	19.20
5	16QAM	1	24	18.11	18.12	18.24	18.18	18.17	19.20
5	16QAM	12	0	17.98	18.07	18.19	18.16	17.91	19.20
5	16QAM	12	7	18.08	18.13	18.27	18.19	18.08	19.20
5	16QAM	12	13	18.09	18.13	18.30	18.17	18.05	19.20
5	16QAM	25	0	18.21	18.20	18.34	18.14	18.18	19.20
5	64QAM	1	0	18.32	18.26	18.32	18.19	18.11	19.20
5	64QAM	1	12	18.00	17.97	18.17	18.17	18.09	19.20
5	64QAM	1	24	18.16	18.06	18.25	18.15	18.15	19.20
5	64QAM	12	0	18.08	18.11	18.24	18.04	18.01	19.20
5	64QAM	12	7	18.00	18.14	18.19	18.07	17.98	19.20
5	64QAM	12	13	18.32	18.28	18.46	18.22	18.19	19.20
5	64QAM	25	0	18.05	17.96	18.28	18.14	18.00	19.20
5	256QAM	1	0	18.12	18.03	18.30	18.09	18.07	19.20
5	256QAM	1	12	18.10	17.97	18.23	18.09	17.99	19.20
5	256QAM	1	24	18.07	18.08	18.35	18.30	18.09	19.20
5	256QAM	12	0	18.05	17.94	18.17	18.10	17.98	19.20
5	256QAM	12	7	18.17	18.26	18.32	18.22	18.25	19.20
5	256QAM	12	13	18.18	18.15	18.33	18.15	18.12	19.20
5	256QAM	25	0	18.21	18.09	18.33	18.19	18.07	19.20

【LTE Band 41_FCC (2496~2690MHz)_Ant 3_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.40	22.46	22.51	22.43	22.39	23.90
20	QPSK	1	49	22.12	22.19	22.28	22.11	22.03	23.90
20	QPSK	1	99	22.20	22.13	22.33	22.20	22.12	23.90
20	QPSK	50	0	22.31	22.28	22.40	22.34	22.38	23.00
20	QPSK	50	24	22.13	22.20	22.38	22.23	22.12	23.00
20	QPSK	50	50	22.12	22.15	22.26	22.05	22.03	23.00
20	QPSK	100	0	22.30	22.31	22.38	22.28	22.36	23.00
20	16QAM	1	0	22.15	22.11	22.28	22.15	22.08	23.00
20	16QAM	1	49	22.10	22.06	22.22	22.08	21.98	23.00
20	16QAM	1	99	22.15	22.27	22.36	22.15	22.20	23.00
20	16QAM	50	0	21.12	21.21	21.33	21.16	21.16	22.00
20	16QAM	50	24	21.14	21.07	21.26	21.16	21.04	22.00
20	16QAM	50	50	21.20	21.22	21.39	21.27	21.15	22.00
20	16QAM	100	0	21.06	21.22	21.28	21.07	21.08	22.00
20	64QAM	1	0	21.18	21.23	21.32	21.14	21.12	22.00
20	64QAM	1	49	21.03	21.11	21.27	21.16	21.06	22.00
20	64QAM	1	99	21.17	21.24	21.38	21.29	21.25	22.00
20	64QAM	50	0	20.23	20.30	20.37	20.22	20.16	21.00
20	64QAM	50	24	20.01	20.12	20.22	20.13	20.00	21.00
20	64QAM	50	50	20.14	20.18	20.35	20.25	20.16	21.00
20	64QAM	100	0	20.11	20.11	20.27	20.18	20.06	21.00
20	256QAM	1	0	18.07	18.06	18.23	18.05	18.01	20.00
20	256QAM	1	49	18.19	18.29	18.34	18.20	18.17	20.00
20	256QAM	1	99	18.16	18.12	18.27	18.06	18.08	20.00
20	256QAM	50	0	18.21	18.22	18.34	18.24	18.09	20.00
20	256QAM	50	24	18.16	18.18	18.29	18.14	18.10	20.00
20	256QAM	50	50	18.18	18.23	18.30	18.20	18.08	20.00
20	256QAM	100	0	18.20	18.27	18.34	18.21	18.22	20.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.38	22.37	22.38	22.35	22.31	23.90
15	QPSK	1	37	22.00	22.10	22.22	22.09	22.02	23.90
15	QPSK	1	74	22.17	22.04	22.23	22.13	22.00	23.90
15	QPSK	36	0	22.22	22.16	22.36	22.29	22.27	23.00
15	QPSK	36	20	22.03	22.05	22.31	22.10	21.97	23.00
15	QPSK	36	39	22.10	22.05	22.23	21.93	21.99	23.00
15	QPSK	75	0	22.16	22.24	22.27	22.16	22.30	23.00
15	16QAM	1	0	22.08	22.08	22.16	22.08	22.06	23.00



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15	16QAM	1	37	21.96	22.02	22.16	21.97	21.84	23.00
15	16QAM	1	74	22.03	22.17	22.25	22.05	22.18	23.00
15	16QAM	36	0	21.04	21.08	21.24	21.12	21.15	22.00
15	16QAM	36	20	21.11	20.93	21.12	21.02	21.01	22.00
15	16QAM	36	39	21.17	21.19	21.27	21.18	21.03	22.00
15	16QAM	75	0	20.92	21.09	21.23	20.93	20.93	22.00
15	64QAM	1	0	21.13	21.13	21.30	21.11	21.01	22.00
15	64QAM	1	37	21.00	20.97	21.18	21.01	20.93	22.00
15	64QAM	1	74	21.10	21.17	21.37	21.27	21.12	22.00
15	64QAM	36	0	20.12	20.22	20.32	20.11	20.06	21.00
15	64QAM	36	20	19.86	20.00	20.08	20.01	19.97	21.00
15	64QAM	36	39	20.03	20.11	20.20	20.13	20.03	21.00
15	64QAM	75	0	20.09	19.99	20.25	20.14	19.99	21.00
15	256QAM	1	0	18.00	18.00	18.11	18.01	18.00	20.00
15	256QAM	1	37	18.09	18.18	18.27	18.06	18.13	20.00
15	256QAM	1	74	18.03	18.01	18.24	18.01	18.01	20.00
15	256QAM	36	0	18.13	18.16	18.28	18.10	18.06	20.00
15	256QAM	36	20	18.04	18.15	18.24	18.01	18.03	20.00
15	256QAM	36	39	18.15	18.08	18.19	18.14	18.00	20.00
15	256QAM	75	0	18.14	18.23	18.26	18.12	18.15	20.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.34	22.37	22.49	22.35	22.32	23.90
10	QPSK	1	25	22.00	22.09	22.22	22.09	22.00	23.90
10	QPSK	1	49	22.18	22.05	22.18	22.06	22.09	23.90
10	QPSK	25	0	22.23	22.24	22.26	22.20	22.27	23.00
10	QPSK	25	12	22.02	22.11	22.35	22.15	22.01	23.00
10	QPSK	25	25	21.98	22.11	22.20	22.00	21.97	23.00
10	QPSK	50	0	22.17	22.17	22.28	22.24	22.27	23.00
10	16QAM	1	0	22.07	22.05	22.13	22.10	21.99	23.00
10	16QAM	1	25	22.07	21.95	22.07	21.95	21.94	23.00
10	16QAM	1	49	22.10	22.15	22.22	22.04	22.13	23.00
10	16QAM	25	0	21.02	21.07	21.21	21.06	21.11	22.00
10	16QAM	25	12	21.05	20.96	21.20	21.11	20.97	22.00
10	16QAM	25	25	21.17	21.14	21.31	21.13	21.13	22.00
10	16QAM	50	0	20.98	21.10	21.18	21.00	21.00	22.00
10	64QAM	1	0	21.15	21.14	21.30	21.09	20.97	22.00
10	64QAM	1	25	21.01	21.01	21.17	21.06	20.98	22.00
10	64QAM	1	49	21.16	21.14	21.32	21.26	21.23	22.00
10	64QAM	25	0	20.20	20.23	20.25	20.16	20.15	21.00
10	64QAM	25	12	19.99	20.03	20.08	19.99	19.90	21.00
10	64QAM	25	25	20.09	20.11	20.23	20.20	20.05	21.00
10	64QAM	50	0	20.09	20.05	20.17	20.03	20.04	21.00
10	256QAM	1	0	18.00	18.04	18.16	18.00	18.00	20.00
10	256QAM	1	25	18.14	18.21	18.20	18.09	18.05	20.00
10	256QAM	1	49	18.06	18.10	18.21	18.01	18.05	20.00
10	256QAM	25	0	18.08	18.12	18.33	18.22	18.00	20.00
10	256QAM	25	12	18.03	18.10	18.18	18.00	18.00	20.00
10	256QAM	25	25	18.15	18.10	18.18	18.15	18.00	20.00
10	256QAM	50	0	18.11	18.15	18.20	18.14	18.09	20.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.30	22.32	22.46	22.42	22.30	23.90
5	QPSK	1	12	22.01	22.12	22.18	22.01	22.00	23.90
5	QPSK	1	24	22.06	22.05	22.30	22.10	22.03	23.90
5	QPSK	12	0	22.29	22.27	22.37	22.23	22.32	23.00
5	QPSK	12	7	22.01	22.11	22.37	22.13	22.05	23.00
5	QPSK	12	13	22.09	22.06	22.15	21.93	21.98	23.00
5	QPSK	25	0	22.26	22.16	22.30	22.21	22.29	23.00
5	16QAM	1	0	22.13	21.97	22.26	22.13	22.06	23.00
5	16QAM	1	12	22.05	21.99	22.16	22.00	21.91	23.00
5	16QAM	1	24	22.02	22.23	22.34	22.11	22.08	23.00
5	16QAM	12	0	21.06	21.18	21.28	21.01	21.10	22.00
5	16QAM	12	7	21.11	21.02	21.25	21.09	20.89	22.00
5	16QAM	12	13	21.06	21.11	21.26	21.20	21.01	22.00
5	16QAM	25	0	20.91	21.11	21.21	20.94	21.05	22.00
5	64QAM	1	0	21.10	21.14	21.26	21.01	20.98	22.00
5	64QAM	1	12	20.97	21.06	21.23	21.03	21.00	22.00
5	64QAM	1	24	21.14	21.20	21.30	21.27	21.18	22.00
5	64QAM	12	0	20.20	20.20	20.32	20.10	20.14	21.00
5	64QAM	12	7	19.87	20.00	20.10	19.99	19.86	21.00
5	64QAM	12	13	20.02	20.07	20.22	20.12	20.11	21.00
5	64QAM	25	0	19.99	20.09	20.22	20.15	20.03	21.00
5	256QAM	1	0	18.00	18.00	18.17	18.01	18.01	20.00
5	256QAM	1	12	18.17	18.19	18.23	18.18	18.06	20.00
5	256QAM	1	24	18.09	18.05	18.13	18.00	18.01	20.00



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5	256QAM	12	0	18.09	18.14	18.28	18.19	18.01	20.00
5	256QAM	12	7	18.01	18.14	18.21	18.06	18.08	20.00
5	256QAM	12	13	18.13	18.18	18.26	18.10	18.04	20.00
5	256QAM	25	0	18.06	18.25	18.24	18.11	18.11	20.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 3_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	15.00
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	13.75	13.78	13.85	13.84	13.82	15.00
20	QPSK	1	49	13.62	13.74	13.80	13.79	13.79	15.00
20	QPSK	1	99	13.67	13.67	13.79	13.70	13.72	15.00
20	QPSK	50	0	13.75	13.78	13.84	13.78	13.79	15.00
20	QPSK	50	24	13.63	13.73	13.81	13.70	13.74	15.00
20	QPSK	50	50	13.63	13.72	13.77	13.76	13.75	15.00
20	QPSK	100	0	13.63	13.68	13.81	13.75	13.69	15.00
20	16QAM	1	0	13.66	13.69	13.71	13.78	13.78	15.00
20	16QAM	1	49	13.65	13.74	13.79	13.75	13.71	15.00
20	16QAM	1	99	13.63	13.71	13.72	13.71	13.70	15.00
20	16QAM	50	0	13.66	13.65	13.74	13.75	13.75	15.00
20	16QAM	50	24	13.61	13.72	13.71	13.76	13.73	15.00
20	16QAM	50	50	13.70	13.70	13.73	13.77	13.68	15.00
20	16QAM	100	0	13.64	13.69	13.73	13.73	13.67	15.00
20	64QAM	1	0	13.63	13.74	13.71	13.71	13.67	15.00
20	64QAM	1	49	13.68	13.70	13.77	13.77	13.69	15.00
20	64QAM	1	99	13.66	13.68	13.74	13.70	13.71	15.00
20	64QAM	50	0	13.69	13.65	13.72	13.77	13.71	15.00
20	64QAM	50	24	13.72	13.70	13.82	13.69	13.67	15.00
20	64QAM	50	50	13.61	13.74	13.77	13.75	13.77	15.00
20	64QAM	100	0	13.66	13.69	13.80	13.74	13.75	15.00
20	256QAM	1	0	13.64	13.74	13.74	13.78	13.78	15.00
20	256QAM	1	49	13.71	13.64	13.77	13.73	13.78	15.00
20	256QAM	1	99	13.68	13.74	13.72	13.75	13.78	15.00
20	256QAM	50	0	13.64	13.68	13.77	13.79	13.79	15.00
20	256QAM	50	24	13.69	13.69	13.76	13.75	13.70	15.00
20	256QAM	50	50	13.64	13.67	13.81	13.78	13.69	15.00
20	256QAM	100	0	13.67	13.70	13.77	13.72	13.68	15.00
Channel				39725	40173	40620	41068	41515	15.00
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	13.71	13.74	13.70	13.83	13.74	15.00
15	QPSK	1	37	13.56	13.71	13.78	13.71	13.68	15.00
15	QPSK	1	74	13.59	13.60	13.69	13.55	13.69	15.00
15	QPSK	36	0	13.58	13.62	13.75	13.74	13.65	15.00
15	QPSK	36	20	13.55	13.62	13.74	13.58	13.61	15.00
15	QPSK	36	39	13.55	13.68	13.64	13.74	13.66	15.00
15	QPSK	75	0	13.53	13.60	13.76	13.73	13.64	15.00
15	16QAM	1	0	13.59	13.65	13.60	13.68	13.63	15.00
15	16QAM	1	37	13.59	13.61	13.69	13.63	13.59	15.00
15	16QAM	1	74	13.60	13.65	13.58	13.65	13.61	15.00
15	16QAM	36	0	13.54	13.52	13.69	13.62	13.66	15.00
15	16QAM	36	20	13.48	13.65	13.67	13.72	13.66	15.00
15	16QAM	36	39	13.64	13.64	13.71	13.63	13.61	15.00
15	16QAM	75	0	13.59	13.62	13.68	13.59	13.61	15.00
15	64QAM	1	0	13.51	13.69	13.65	13.61	13.63	15.00
15	64QAM	1	37	13.58	13.59	13.74	13.72	13.65	15.00
15	64QAM	1	74	13.56	13.57	13.65	13.61	13.67	15.00
15	64QAM	36	0	13.55	13.54	13.60	13.64	13.60	15.00
15	64QAM	36	20	13.63	13.55	13.70	13.60	13.64	15.00
15	64QAM	36	39	13.51	13.67	13.70	13.62	13.70	15.00
15	64QAM	75	0	13.60	13.61	13.66	13.63	13.63	15.00
15	256QAM	1	0	13.61	13.59	13.65	13.76	13.68	15.00
15	256QAM	1	37	13.68	13.55	13.63	13.69	13.74	15.00
15	256QAM	1	74	13.67	13.60	13.68	13.63	13.66	15.00
15	256QAM	36	0	13.55	13.56	13.65	13.65	13.71	15.00
15	256QAM	36	20	13.64	13.55	13.63	13.72	13.63	15.00
15	256QAM	36	39	13.56	13.53	13.71	13.67	13.63	15.00
15	256QAM	75	0	13.61	13.60	13.66	13.65	13.55	15.00
Channel				39700	40160	40620	41080	41540	15.00
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	13.69	13.73	13.71	13.72	13.77	15.00



10	QPSK	1	25	13.55	13.63	13.71	13.69	13.69	15.00
10	QPSK	1	49	13.54	13.65	13.67	13.67	13.68	15.00
10	QPSK	25	0	13.55	13.68	13.79	13.75	13.73	15.00
10	QPSK	25	12	13.59	13.71	13.77	13.56	13.68	15.00
10	QPSK	25	25	13.57	13.57	13.75	13.63	13.63	15.00
10	QPSK	50	0	13.56	13.54	13.68	13.73	13.60	15.00
10	16QAM	1	0	13.58	13.57	13.67	13.69	13.75	15.00
10	16QAM	1	25	13.57	13.69	13.66	13.71	13.64	15.00
10	16QAM	1	49	13.51	13.59	13.59	13.60	13.62	15.00
10	16QAM	25	0	13.62	13.54	13.71	13.66	13.62	15.00
10	16QAM	25	12	13.49	13.57	13.68	13.65	13.63	15.00
10	16QAM	25	25	13.58	13.61	13.63	13.69	13.56	15.00
10	16QAM	50	0	13.58	13.62	13.67	13.61	13.57	15.00
10	64QAM	1	0	13.58	13.61	13.59	13.67	13.61	15.00
10	64QAM	1	25	13.59	13.63	13.66	13.67	13.55	15.00
10	64QAM	1	49	13.56	13.64	13.71	13.60	13.56	15.00
10	64QAM	25	0	13.56	13.62	13.59	13.63	13.64	15.00
10	64QAM	25	12	13.59	13.60	13.71	13.64	13.58	15.00
10	64QAM	25	25	13.50	13.60	13.74	13.72	13.69	15.00
10	64QAM	50	0	13.58	13.63	13.78	13.71	13.73	15.00
10	256QAM	1	0	13.53	13.64	13.59	13.72	13.67	15.00
10	256QAM	1	25	13.60	13.56	13.71	13.71	13.76	15.00
10	256QAM	1	49	13.56	13.72	13.61	13.73	13.75	15.00
10	256QAM	25	0	13.55	13.54	13.62	13.69	13.67	15.00
10	256QAM	25	12	13.64	13.56	13.65	13.65	13.69	15.00
10	256QAM	25	25	13.62	13.56	13.76	13.67	13.58	15.00
10	256QAM	50	0	13.57	13.55	13.64	13.66	13.63	15.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	13.62	13.71	13.78	13.73	13.71	15.00
5	QPSK	1	12	13.61	13.71	13.70	13.64	13.78	15.00
5	QPSK	1	24	13.60	13.61	13.66	13.62	13.66	15.00
5	QPSK	12	0	13.57	13.68	13.81	13.68	13.69	15.00
5	QPSK	12	7	13.48	13.67	13.74	13.58	13.65	15.00
5	QPSK	12	13	13.61	13.70	13.74	13.69	13.71	15.00
5	QPSK	25	0	13.60	13.59	13.72	13.68	13.57	15.00
5	16QAM	1	0	13.65	13.59	13.68	13.75	13.74	15.00
5	16QAM	1	12	13.54	13.72	13.76	13.68	13.66	15.00
5	16QAM	1	24	13.60	13.65	13.59	13.57	13.60	15.00
5	16QAM	12	0	13.52	13.52	13.66	13.70	13.73	15.00
5	16QAM	12	7	13.48	13.61	13.56	13.71	13.60	15.00
5	16QAM	12	13	13.69	13.62	13.62	13.65	13.63	15.00
5	16QAM	25	0	13.55	13.60	13.64	13.62	13.59	15.00
5	64QAM	1	0	13.53	13.62	13.61	13.68	13.55	15.00
5	64QAM	1	12	13.62	13.56	13.65	13.65	13.56	15.00
5	64QAM	1	24	13.54	13.64	13.65	13.59	13.68	15.00
5	64QAM	12	0	13.66	13.62	13.71	13.67	13.70	15.00
5	64QAM	12	7	13.58	13.67	13.79	13.68	13.61	15.00
5	64QAM	12	13	13.50	13.59	13.71	13.73	13.70	15.00
5	64QAM	25	0	13.55	13.56	13.77	13.66	13.67	15.00
5	256QAM	1	0	13.59	13.67	13.67	13.67	13.67	15.00
5	256QAM	1	12	13.63	13.61	13.64	13.64	13.65	15.00
5	256QAM	1	24	13.66	13.71	13.62	13.70	13.69	15.00
5	256QAM	12	0	13.52	13.53	13.74	13.69	13.67	15.00
5	256QAM	12	7	13.59	13.67	13.67	13.73	13.65	15.00
5	256QAM	12	13	13.50	13.62	13.70	13.69	13.65	15.00
5	256QAM	25	0	13.63	13.60	13.65	13.63	13.65	15.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 3_DSI 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	17.55	17.59	17.62	17.59	17.51	18.60
20	QPSK	1	49	17.14	17.15	17.33	17.19	17.12	18.60
20	QPSK	1	99	17.40	17.41	17.48	17.35	17.33	18.60
20	QPSK	50	0	17.41	17.44	17.53	17.51	17.47	18.60
20	QPSK	50	24	17.19	17.21	17.32	17.28	17.10	18.60
20	QPSK	50	50	17.14	17.20	17.36	17.25	17.22	18.60
20	QPSK	100	0	17.43	17.46	17.50	17.42	17.45	18.60
20	16QAM	1	0	17.41	17.43	17.54	17.43	17.38	18.60



20	16QAM	1	49	17.38	17.35	17.49	17.34	17.35	18.60
20	16QAM	1	99	17.15	17.24	17.33	17.19	17.17	18.60
20	16QAM	50	0	17.26	17.28	17.40	17.27	17.20	18.60
20	16QAM	50	24	17.15	17.21	17.32	17.26	17.17	18.60
20	16QAM	50	50	17.18	17.19	17.32	17.18	17.14	18.60
20	16QAM	100	0	17.37	17.31	17.49	17.45	17.27	18.60
20	64QAM	1	0	17.19	17.27	17.38	17.29	17.16	18.60
20	64QAM	1	49	17.22	17.27	17.43	17.31	17.24	18.60
20	64QAM	1	99	17.33	17.47	17.53	17.38	17.38	18.60
20	64QAM	50	0	17.34	17.30	17.46	17.36	17.31	18.60
20	64QAM	50	24	17.12	17.22	17.33	17.21	17.13	18.60
20	64QAM	50	50	17.21	17.31	17.38	17.26	17.13	18.60
20	64QAM	100	0	17.21	17.16	17.33	17.18	17.11	18.60
20	256QAM	1	0	17.33	17.40	17.51	17.38	17.27	18.60
20	256QAM	1	49	17.16	17.24	17.37	17.29	17.19	18.60
20	256QAM	1	99	17.32	17.32	17.42	17.25	17.16	18.60
20	256QAM	50	0	17.24	17.29	17.41	17.35	17.25	18.60
20	256QAM	50	24	17.31	17.36	17.42	17.32	17.22	18.60
20	256QAM	50	50	17.31	17.23	17.40	17.25	17.21	18.60
20	256QAM	100	0	17.34	17.33	17.46	17.31	17.21	18.60
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	17.43	17.49	17.53	17.58	17.41	18.60
15	QPSK	1	37	17.08	17.13	17.31	17.13	17.01	18.60
15	QPSK	1	74	17.38	17.30	17.34	17.34	17.23	18.60
15	QPSK	36	0	17.32	17.38	17.50	17.47	17.37	18.60
15	QPSK	36	20	17.09	17.06	17.29	17.20	17.02	18.60
15	QPSK	36	39	17.07	17.17	17.28	17.21	17.08	18.60
15	QPSK	75	0	17.34	17.35	17.47	17.35	17.37	18.60
15	16QAM	1	0	17.36	17.29	17.48	17.29	17.30	18.60
15	16QAM	1	37	17.29	17.21	17.38	17.26	17.32	18.60
15	16QAM	1	74	17.12	17.20	17.19	17.05	17.16	18.60
15	16QAM	36	0	17.23	17.14	17.39	17.16	17.19	18.60
15	16QAM	36	20	17.13	17.09	17.27	17.12	17.11	18.60
15	16QAM	36	39	17.13	17.16	17.22	17.04	17.06	18.60
15	16QAM	75	0	17.25	17.28	17.46	17.35	17.24	18.60
15	64QAM	1	0	17.06	17.19	17.24	17.26	17.04	18.60
15	64QAM	1	37	17.12	17.16	17.31	17.19	17.18	18.60
15	64QAM	1	74	17.28	17.38	17.45	17.26	17.33	18.60
15	64QAM	36	0	17.25	17.16	17.45	17.26	17.26	18.60
15	64QAM	36	20	17.09	17.14	17.28	17.09	17.08	18.60
15	64QAM	36	39	17.09	17.29	17.36	17.23	17.08	18.60
15	64QAM	75	0	17.18	17.06	17.22	17.06	17.03	18.60
15	256QAM	1	0	17.18	17.30	17.43	17.31	17.16	18.60
15	256QAM	1	37	17.04	17.09	17.26	17.22	17.16	18.60
15	256QAM	1	74	17.24	17.24	17.34	17.16	17.14	18.60
15	256QAM	36	0	17.20	17.20	17.36	17.24	17.13	18.60
15	256QAM	36	20	17.27	17.26	17.40	17.23	17.20	18.60
15	256QAM	36	39	17.27	17.10	17.27	17.23	17.20	18.60
15	256QAM	75	0	17.22	17.26	17.38	17.17	17.07	18.60
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	17.50	17.53	17.51	17.48	17.37	18.60
10	QPSK	1	25	17.04	17.00	17.32	17.14	17.07	18.60
10	QPSK	1	49	17.30	17.36	17.41	17.21	17.23	18.60
10	QPSK	25	0	17.38	17.35	17.45	17.39	17.37	18.60
10	QPSK	25	12	17.17	17.08	17.25	17.17	16.99	18.60
10	QPSK	25	25	17.05	17.17	17.22	17.19	17.17	18.60
10	QPSK	50	0	17.39	17.44	17.40	17.40	17.38	18.60
10	16QAM	1	0	17.33	17.29	17.46	17.31	17.25	18.60
10	16QAM	1	25	17.29	17.29	17.37	17.23	17.25	18.60
10	16QAM	1	49	17.13	17.12	17.29	17.05	17.12	18.60
10	16QAM	25	0	17.19	17.16	17.39	17.25	17.13	18.60
10	16QAM	25	12	17.11	17.12	17.28	17.21	17.05	18.60
10	16QAM	25	25	17.10	17.15	17.17	17.15	17.01	18.60
10	16QAM	50	0	17.34	17.30	17.48	17.35	17.18	18.60
10	64QAM	1	0	17.11	17.15	17.30	17.27	17.12	18.60
10	64QAM	1	25	17.20	17.14	17.38	17.26	17.10	18.60
10	64QAM	1	49	17.30	17.43	17.45	17.27	17.30	18.60
10	64QAM	25	0	17.31	17.24	17.42	17.32	17.28	18.60
10	64QAM	25	12	17.05	17.15	17.18	17.10	17.02	18.60
10	64QAM	25	25	17.15	17.19	17.36	17.22	17.00	18.60
10	64QAM	50	0	17.14	17.05	17.27	17.14	16.99	18.60
10	256QAM	1	0	17.30	17.36	17.42	17.32	17.16	18.60
10	256QAM	1	25	17.02	17.17	17.36	17.16	17.10	18.60
10	256QAM	1	49	17.25	17.20	17.40	17.20	17.05	18.60



10	256QAM	25	0	17.15	17.21	17.30	17.24	17.20	18.60
10	256QAM	25	12	17.27	17.32	17.27	17.20	17.20	18.60
10	256QAM	25	25	17.26	17.12	17.32	17.16	17.09	18.60
10	256QAM	50	0	17.33	17.18	17.33	17.29	17.14	18.60
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	17.48	17.56	17.60	17.44	17.39	18.60
5	QPSK	1	12	17.10	17.10	17.27	17.07	16.99	18.60
5	QPSK	1	24	17.38	17.36	17.38	17.29	17.25	18.60
5	QPSK	12	0	17.31	17.29	17.47	17.44	17.42	18.60
5	QPSK	12	7	17.14	17.12	17.26	17.19	17.05	18.60
5	QPSK	12	13	17.03	17.16	17.23	17.18	17.09	18.60
5	QPSK	25	0	17.30	17.38	17.45	17.33	17.31	18.60
5	16QAM	1	0	17.28	17.29	17.44	17.29	17.31	18.60
5	16QAM	1	12	17.32	17.33	17.48	17.21	17.21	18.60
5	16QAM	1	24	17.00	17.16	17.26	17.04	17.11	18.60
5	16QAM	12	0	17.21	17.22	17.31	17.21	17.06	18.60
5	16QAM	12	7	17.11	17.07	17.17	17.21	17.12	18.60
5	16QAM	12	13	17.16	17.10	17.25	17.04	17.00	18.60
5	16QAM	25	0	17.35	17.18	17.34	17.42	17.13	18.60
5	64QAM	1	0	17.05	17.18	17.34	17.21	17.05	18.60
5	64QAM	1	12	17.20	17.19	17.32	17.18	17.21	18.60
5	64QAM	1	24	17.25	17.36	17.43	17.33	17.28	18.60
5	64QAM	12	0	17.26	17.18	17.35	17.28	17.22	18.60
5	64QAM	12	7	17.09	17.18	17.24	17.15	17.12	18.60
5	64QAM	12	13	17.08	17.23	17.37	17.19	17.05	18.60
5	64QAM	25	0	17.07	17.11	17.30	17.07	17.01	18.60
5	256QAM	1	0	17.21	17.34	17.47	17.26	17.18	18.60
5	256QAM	1	12	17.07	17.13	17.35	17.25	17.16	18.60
5	256QAM	1	24	17.28	17.19	17.33	17.22	17.06	18.60
5	256QAM	12	0	17.20	17.18	17.31	17.33	17.14	18.60
5	256QAM	12	7	17.23	17.25	17.34	17.22	17.09	18.60
5	256QAM	12	13	17.19	17.11	17.37	17.17	17.09	18.60
5	256QAM	25	0	17.28	17.27	17.38	17.17	17.08	18.60

【LTE Band 41_FCC (2496~2690MHz)_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.37	23.40	23.47	23.42	23.27	24.00
20	QPSK	1	49	23.15	23.26	23.39	23.31	23.05	24.00
20	QPSK	1	99	23.06	23.21	23.29	23.18	22.98	24.00
20	QPSK	50	0	22.44	22.46	22.60	22.49	22.37	23.00
20	QPSK	50	24	22.38	22.41	22.58	22.45	22.34	23.00
20	QPSK	50	50	22.33	22.36	22.51	22.44	22.31	23.00
20	QPSK	100	0	22.29	22.41	22.52	22.35	22.26	23.00
20	16QAM	1	0	22.03	22.15	22.26	22.11	22.05	23.00
20	16QAM	1	49	21.97	21.93	22.12	21.95	21.89	23.00
20	16QAM	1	99	21.85	21.91	22.04	21.86	21.74	23.00
20	16QAM	50	0	20.90	20.94	21.10	20.99	20.85	22.00
20	16QAM	50	24	20.95	21.03	21.13	20.99	20.86	22.00
20	16QAM	50	50	20.89	20.91	21.09	21.02	20.88	22.00
20	16QAM	100	0	20.89	20.98	21.10	20.92	20.83	22.00
20	64QAM	1	0	21.05	20.99	21.16	21.06	20.87	22.00
20	64QAM	1	49	21.01	21.06	21.15	21.05	20.88	22.00
20	64QAM	1	99	20.79	20.76	20.96	20.88	20.69	22.00
20	64QAM	50	0	19.88	19.95	20.08	19.95	19.84	21.00
20	64QAM	50	24	19.93	19.99	20.14	20.05	19.84	21.00
20	64QAM	50	50	19.93	19.82	20.03	19.97	19.72	21.00
20	64QAM	100	0	19.98	19.89	20.09	19.98	19.91	21.00
20	256QAM	1	0	17.93	17.83	18.02	17.86	17.85	19.00
20	256QAM	1	49	17.89	17.96	18.06	17.99	17.77	19.00
20	256QAM	1	99	17.74	17.69	17.88	17.80	17.62	19.00
20	256QAM	50	0	17.93	17.97	18.05	17.97	17.82	19.00
20	256QAM	50	24	17.93	17.92	18.12	18.06	17.95	19.00
20	256QAM	50	50	17.95	17.93	18.07	18.02	17.85	19.00
20	256QAM	100	0	17.85	17.95	18.07	17.94	17.85	19.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.24	23.28	23.39	23.28	23.24	24.00



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15	QPSK	1	37	23.02	23.17	23.27	23.20	22.95	24.00
15	QPSK	1	74	23.00	23.18	23.16	23.09	22.87	24.00
15	QPSK	36	0	22.33	22.37	22.56	22.45	22.36	23.00
15	QPSK	36	20	22.34	22.38	22.54	22.39	22.21	23.00
15	QPSK	36	39	22.31	22.34	22.36	22.33	22.21	23.00
15	QPSK	75	0	22.14	22.30	22.47	22.29	22.22	23.00
15	16QAM	1	0	21.96	22.07	22.11	22.08	21.98	23.00
15	16QAM	1	37	21.83	21.84	22.06	21.86	21.80	23.00
15	16QAM	1	74	21.71	21.89	21.96	21.84	21.71	23.00
15	16QAM	36	0	20.77	20.85	21.03	20.89	20.84	22.00
15	16QAM	36	20	20.86	20.92	21.11	20.91	20.78	22.00
15	16QAM	36	39	20.85	20.80	21.07	20.97	20.76	22.00
15	16QAM	75	0	20.80	20.85	20.98	20.82	20.78	22.00
15	64QAM	1	0	21.00	20.86	21.06	21.04	20.75	22.00
15	64QAM	1	37	20.92	20.97	21.01	20.94	20.78	22.00
15	64QAM	1	74	20.72	20.63	20.89	20.80	20.59	22.00
15	64QAM	36	0	19.74	19.85	20.06	19.84	19.78	21.00
15	64QAM	36	20	19.80	19.85	20.08	20.04	19.76	21.00
15	64QAM	36	39	19.88	19.73	20.00	19.84	19.58	21.00
15	64QAM	75	0	19.95	19.81	20.05	19.85	19.80	21.00
15	256QAM	1	0	17.88	17.71	17.99	17.77	17.84	19.00
15	256QAM	1	37	17.86	17.83	17.95	17.93	17.67	19.00
15	256QAM	1	74	17.63	17.63	17.87	17.72	17.55	19.00
15	256QAM	36	0	17.84	17.83	17.96	17.91	17.78	19.00
15	256QAM	36	20	17.81	17.78	18.07	17.93	17.92	19.00
15	256QAM	36	39	17.83	17.82	17.96	17.96	17.77	19.00
15	256QAM	75	0	17.72	17.92	17.99	17.81	17.71	19.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.33	23.29	23.33	23.36	23.15	24.00
10	QPSK	1	25	23.14	23.24	23.24	23.23	22.99	24.00
10	QPSK	1	49	22.92	23.18	23.15	23.14	22.91	24.00
10	QPSK	25	0	22.39	22.27	22.57	22.43	22.23	23.00
10	QPSK	25	12	22.24	22.39	22.54	22.42	22.27	23.00
10	QPSK	25	25	22.27	22.27	22.40	22.36	22.24	23.00
10	QPSK	50	0	22.19	22.28	22.50	22.26	22.12	23.00
10	16QAM	1	0	21.88	22.04	22.19	22.00	22.03	23.00
10	16QAM	1	25	21.83	21.83	21.98	21.84	21.78	23.00
10	16QAM	1	49	21.82	21.80	21.96	21.81	21.60	23.00
10	16QAM	25	0	20.86	20.82	21.02	20.91	20.80	22.00
10	16QAM	25	12	20.89	20.97	21.04	20.93	20.79	22.00
10	16QAM	25	25	20.87	20.88	21.00	20.96	20.77	22.00
10	16QAM	50	0	20.83	20.84	20.98	20.89	20.73	22.00
10	64QAM	1	0	20.97	20.92	21.13	20.96	20.83	22.00
10	64QAM	1	25	21.00	20.94	21.01	20.96	20.78	22.00
10	64QAM	1	49	20.66	20.62	20.88	20.74	20.67	22.00
10	64QAM	25	0	19.76	19.92	20.02	19.80	19.79	21.00
10	64QAM	25	12	19.90	19.91	20.00	19.94	19.72	21.00
10	64QAM	25	25	19.82	19.73	19.91	19.85	19.70	21.00
10	64QAM	50	0	19.91	19.76	20.03	19.96	19.80	21.00
10	256QAM	1	0	17.80	17.74	17.94	17.78	17.73	19.00
10	256QAM	1	25	17.77	17.92	17.94	17.97	17.70	19.00
10	256QAM	1	49	17.63	17.67	17.75	17.75	17.47	19.00
10	256QAM	25	0	17.79	17.88	17.95	17.85	17.74	19.00
10	256QAM	25	12	17.84	17.86	18.02	18.03	17.90	19.00
10	256QAM	25	25	17.89	17.88	18.00	17.94	17.72	19.00
10	256QAM	50	0	17.71	17.82	18.06	17.93	17.76	19.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	23.29	23.26	23.39	23.34	23.24	24.00
5	QPSK	1	12	23.03	23.20	23.37	23.23	23.03	24.00
5	QPSK	1	24	23.00	23.08	23.23	23.14	22.95	24.00
5	QPSK	12	0	22.42	22.30	22.50	22.36	22.23	23.00
5	QPSK	12	7	22.24	22.33	22.48	22.41	22.28	23.00
5	QPSK	12	13	22.23	22.25	22.48	22.30	22.27	23.00
5	QPSK	25	0	22.15	22.35	22.39	22.33	22.22	23.00
5	16QAM	1	0	21.92	22.05	22.19	22.07	21.94	23.00
5	16QAM	1	12	21.91	21.80	22.09	21.81	21.81	23.00
5	16QAM	1	24	21.80	21.88	22.02	21.83	21.65	23.00
5	16QAM	12	0	20.87	20.82	21.03	20.85	20.71	22.00
5	16QAM	12	7	20.89	20.93	21.00	20.95	20.79	22.00
5	16QAM	12	13	20.80	20.83	21.04	20.95	20.82	22.00
5	16QAM	25	0	20.79	20.85	20.98	20.88	20.81	22.00
5	64QAM	1	0	21.00	20.93	21.11	20.98	20.82	22.00
5	64QAM	1	12	20.99	21.00	21.01	21.01	20.74	22.00
5	64QAM	1	24	20.71	20.74	20.84	20.81	20.56	22.00



5	64QAM	12	0	19.74	19.93	19.96	19.83	19.83	21.00
5	64QAM	12	7	19.78	19.92	20.05	19.94	19.81	21.00
5	64QAM	12	13	19.89	19.74	19.89	19.85	19.70	21.00
5	64QAM	25	0	19.97	19.74	20.00	19.89	19.84	21.00
5	256QAM	1	0	17.83	17.81	17.88	17.81	17.74	19.00
5	256QAM	1	12	17.84	17.88	17.98	17.87	17.65	19.00
5	256QAM	1	24	17.65	17.68	17.85	17.66	17.57	19.00
5	256QAM	12	0	17.90	17.82	17.99	17.86	17.70	19.00
5	256QAM	12	7	17.88	17.89	18.10	17.92	17.89	19.00
5	256QAM	12	13	17.81	17.86	18.06	17.90	17.80	19.00
5	256QAM	25	0	17.70	17.81	17.97	17.83	17.72	19.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 3_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.45	19.44	19.46	19.38	19.39	20.10
20	QPSK	1	49	19.21	19.23	19.32	19.10	19.17	20.10
20	QPSK	1	99	19.34	19.30	19.38	19.29	19.28	20.10
20	QPSK	50	0	19.36	19.33	19.37	19.34	19.33	20.10
20	QPSK	50	24	19.09	19.17	19.24	19.02	19.08	20.10
20	QPSK	50	50	19.23	19.26	19.32	19.15	19.22	20.10
20	QPSK	100	0	19.28	19.29	19.32	19.26	19.22	20.10
20	16QAM	1	0	19.19	19.21	19.25	19.02	19.12	20.10
20	16QAM	1	49	19.18	19.17	19.24	19.15	19.12	20.10
20	16QAM	1	99	19.13	19.12	19.21	19.04	19.10	20.10
20	16QAM	50	0	19.23	19.22	19.36	19.19	19.27	20.10
20	16QAM	50	24	19.11	19.18	19.22	19.05	19.09	20.10
20	16QAM	50	50	19.10	19.07	19.21	19.05	19.05	20.10
20	16QAM	100	0	19.27	19.19	19.34	19.24	19.16	20.10
20	64QAM	1	0	19.26	19.20	19.30	19.12	19.15	20.10
20	64QAM	1	49	19.10	19.10	19.18	19.09	19.09	20.10
20	64QAM	1	99	19.19	19.21	19.29	19.07	19.13	20.10
20	64QAM	50	0	19.32	19.30	19.38	19.20	19.18	20.10
20	64QAM	50	24	19.03	19.10	19.15	19.00	19.01	20.10
20	64QAM	50	50	19.25	19.19	19.33	19.24	19.15	20.10
20	64QAM	100	0	19.07	19.05	19.21	18.99	19.03	20.10
20	256QAM	1	0	19.23	19.15	19.29	19.18	19.09	20.10
20	256QAM	1	49	19.27	19.22	19.34	19.19	19.19	20.10
20	256QAM	1	99	19.30	19.32	19.36	19.25	19.17	20.10
20	256QAM	50	0	19.22	19.22	19.27	19.13	19.15	20.10
20	256QAM	50	24	19.11	19.15	19.19	19.04	19.07	20.10
20	256QAM	50	50	19.17	19.06	19.22	19.02	19.10	20.10
20	256QAM	100	0	19.13	19.07	19.20	19.01	19.06	20.10
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.36	19.31	19.44	19.29	19.26	20.10
15	QPSK	1	37	19.19	19.15	19.21	18.99	19.15	20.10
15	QPSK	1	74	19.21	19.17	19.26	19.22	19.21	20.10
15	QPSK	36	0	19.26	19.27	19.27	19.22	19.19	20.10
15	QPSK	36	20	18.96	19.08	19.23	18.89	19.03	20.10
15	QPSK	36	39	19.15	19.12	19.29	19.05	19.13	20.10
15	QPSK	75	0	19.15	19.19	19.26	19.15	19.18	20.10
15	16QAM	1	0	19.05	19.15	19.20	18.88	19.04	20.10
15	16QAM	1	37	19.08	19.03	19.15	19.03	19.09	20.10
15	16QAM	1	74	19.00	19.04	19.13	18.98	19.00	20.10
15	16QAM	36	0	19.14	19.08	19.31	19.10	19.22	20.10
15	16QAM	36	20	19.08	19.09	19.19	18.91	19.01	20.10
15	16QAM	36	39	18.97	19.01	19.11	18.96	19.04	20.10
15	16QAM	75	0	19.20	19.05	19.25	19.21	19.07	20.10
15	64QAM	1	0	19.11	19.14	19.23	18.98	19.06	20.10
15	64QAM	1	37	19.07	19.08	19.10	19.03	19.04	20.10
15	64QAM	1	74	19.14	19.08	19.25	18.99	19.11	20.10
15	64QAM	36	0	19.18	19.28	19.31	19.19	19.08	20.10
15	64QAM	36	20	18.92	18.99	19.14	18.89	18.94	20.10
15	64QAM	36	39	19.20	19.18	19.25	19.15	19.01	20.10
15	64QAM	75	0	19.02	18.93	19.07	18.96	18.90	20.10
15	256QAM	1	0	19.11	19.07	19.20	19.16	18.98	20.10
15	256QAM	1	37	19.19	19.09	19.31	19.14	19.07	20.10
15	256QAM	1	74	19.24	19.28	19.30	19.21	19.11	20.10



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15	256QAM	36	0	19.16	19.18	19.21	19.05	19.03	20.10
15	256QAM	36	20	19.04	19.09	19.09	18.91	18.99	20.10
15	256QAM	36	39	19.09	18.92	19.09	18.87	19.05	20.10
15	256QAM	75	0	19.00	18.96	19.16	18.89	18.94	20.10
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	19.38	19.32	19.36	19.26	19.38	20.10
10	QPSK	1	25	19.09	19.20	19.23	19.06	19.02	20.10
10	QPSK	1	49	19.33	19.15	19.32	19.26	19.15	20.10
10	QPSK	25	0	19.25	19.25	19.32	19.30	19.32	20.10
10	QPSK	25	12	19.03	19.10	19.14	18.90	19.00	20.10
10	QPSK	25	25	19.17	19.25	19.18	19.05	19.10	20.10
10	QPSK	50	0	19.14	19.27	19.23	19.23	19.09	20.10
10	16QAM	1	0	19.12	19.18	19.17	18.99	19.09	20.10
10	16QAM	1	25	19.05	19.16	19.10	19.03	19.01	20.10
10	16QAM	1	49	18.99	18.99	19.16	18.90	19.00	20.10
10	16QAM	25	0	19.13	19.11	19.29	19.13	19.15	20.10
10	16QAM	25	12	19.03	19.09	19.10	18.91	19.03	20.10
10	16QAM	25	25	19.09	18.98	19.16	18.91	18.94	20.10
10	16QAM	50	0	19.22	19.07	19.28	19.17	19.07	20.10
10	64QAM	1	0	19.11	19.14	19.26	19.07	19.01	20.10
10	64QAM	1	25	19.08	19.06	19.08	19.01	18.94	20.10
10	64QAM	1	49	19.09	19.18	19.25	18.93	19.00	20.10
10	64QAM	25	0	19.21	19.23	19.32	19.09	19.06	20.10
10	64QAM	25	12	18.94	19.00	19.01	18.87	18.99	20.10
10	64QAM	25	25	19.13	19.08	19.19	19.20	19.01	20.10
10	64QAM	50	0	19.00	19.03	19.11	18.85	18.91	20.10
10	256QAM	1	0	19.19	19.03	19.22	19.13	19.08	20.10
10	256QAM	1	25	19.24	19.13	19.32	19.06	19.07	20.10
10	256QAM	1	49	19.27	19.28	19.30	19.12	19.03	20.10
10	256QAM	25	0	19.13	19.16	19.13	19.07	19.01	20.10
10	256QAM	25	12	19.00	19.06	19.05	19.01	19.04	20.10
10	256QAM	25	25	19.05	19.00	19.12	19.00	18.96	20.10
10	256QAM	50	0	19.11	18.95	19.16	18.96	19.00	20.10
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	19.39	19.38	19.39	19.34	19.28	20.10
5	QPSK	1	12	19.08	19.08	19.21	18.98	19.08	20.10
5	QPSK	1	24	19.30	19.20	19.28	19.16	19.26	20.10
5	QPSK	12	0	19.25	19.26	19.36	19.22	19.28	20.10
5	QPSK	12	7	19.04	19.06	19.09	19.01	19.06	20.10
5	QPSK	12	13	19.21	19.21	19.23	19.10	19.13	20.10
5	QPSK	25	0	19.23	19.27	19.24	19.21	19.20	20.10
5	16QAM	1	0	19.05	19.18	19.18	18.90	19.06	20.10
5	16QAM	1	12	19.06	19.03	19.14	19.06	19.10	20.10
5	16QAM	1	24	19.03	18.98	19.10	18.99	19.09	20.10
5	16QAM	12	0	19.19	19.10	19.32	19.05	19.23	20.10
5	16QAM	12	7	19.00	19.16	19.16	18.97	19.00	20.10
5	16QAM	12	13	19.09	18.94	19.20	18.96	18.91	20.10
5	16QAM	25	0	19.15	19.15	19.32	19.22	19.04	20.10
5	64QAM	1	0	19.15	19.16	19.28	19.02	19.10	20.10
5	64QAM	1	12	19.00	19.02	19.05	19.02	18.99	20.10
5	64QAM	1	24	19.04	19.18	19.28	18.97	19.01	20.10
5	64QAM	12	0	19.28	19.15	19.31	19.16	19.13	20.10
5	64QAM	12	7	18.94	18.96	19.06	18.88	18.88	20.10
5	64QAM	12	13	19.12	19.14	19.24	19.17	19.06	20.10
5	64QAM	25	0	19.06	19.00	19.19	18.84	18.94	20.10
5	256QAM	1	0	19.18	19.13	19.15	19.08	19.01	20.10
5	256QAM	1	12	19.24	19.19	19.28	19.04	19.10	20.10
5	256QAM	1	24	19.27	19.25	19.29	19.13	19.09	20.10
5	256QAM	12	0	19.10	19.10	19.13	19.02	19.00	20.10
5	256QAM	12	7	18.96	19.07	19.18	19.01	19.06	20.10
5	256QAM	12	13	19.12	18.97	19.13	18.90	19.08	20.10
5	256QAM	25	0	19.03	18.94	19.10	18.96	19.02	20.10



【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 3_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	20.80
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.36	20.38	20.42	20.33	20.37	20.80
20	QPSK	1	49	19.93	19.98	20.13	20.03	19.99	20.80
20	QPSK	1	99	20.15	20.04	20.23	20.12	20.13	20.80
20	QPSK	50	0	20.23	20.24	20.25	20.19	20.15	20.80
20	QPSK	50	24	20.02	20.10	20.21	19.98	20.04	20.80
20	QPSK	50	50	20.00	20.00	20.18	20.08	20.07	20.80
20	QPSK	100	0	20.17	20.21	20.30	20.13	20.19	20.80
20	16QAM	1	0	20.01	20.05	20.14	20.03	19.95	20.80
20	16QAM	1	49	20.08	20.01	20.17	19.94	20.00	20.80
20	16QAM	1	99	20.15	20.18	20.26	20.15	20.07	20.80
20	16QAM	50	0	20.11	20.22	20.28	20.16	20.13	20.80
20	16QAM	50	24	20.00	20.04	20.17	20.01	20.04	20.80
20	16QAM	50	50	20.11	20.13	20.27	20.16	20.18	20.80
20	16QAM	100	0	20.10	20.07	20.18	20.04	19.99	20.80
20	64QAM	1	0	20.03	20.07	20.14	19.98	19.97	20.80
20	64QAM	1	49	19.99	20.03	20.18	19.96	20.02	20.80
20	64QAM	1	99	19.98	20.10	20.18	20.07	19.99	20.80
20	64QAM	50	0	20.06	20.05	20.14	19.97	19.95	20.80
20	64QAM	50	24	20.06	20.02	20.19	19.97	20.12	20.80
20	64QAM	50	50	20.10	20.04	20.17	19.97	20.01	20.80
20	64QAM	100	0	20.09	20.13	20.26	20.08	20.14	20.80
20	256QAM	1	0	20.09	20.10	20.26	20.07	20.09	20.80
20	256QAM	1	49	20.16	20.22	20.30	20.20	20.15	20.80
20	256QAM	1	99	20.00	20.09	20.21	19.99	20.07	20.80
20	256QAM	50	0	19.99	20.05	20.13	20.02	20.07	20.80
20	256QAM	50	24	20.04	20.09	20.20	20.03	20.05	20.80
20	256QAM	50	50	20.05	20.08	20.16	20.06	20.07	20.80
20	256QAM	100	0	20.05	20.08	20.25	20.06	20.18	20.80
Channel				39725	40173	40620	41068	41515	20.80
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.29	20.32	20.28	20.19	20.23	20.80
15	QPSK	1	37	19.84	19.92	20.10	19.95	19.88	20.80
15	QPSK	1	74	20.03	19.97	20.11	20.00	20.08	20.80
15	QPSK	36	0	20.11	20.10	20.19	20.13	20.04	20.80
15	QPSK	36	20	19.90	19.99	20.08	19.96	20.00	20.80
15	QPSK	36	39	19.95	19.98	20.09	20.02	20.00	20.80
15	QPSK	75	0	20.10	20.19	20.24	20.06	20.09	20.80
15	16QAM	1	0	20.00	19.95	20.02	19.98	19.84	20.80
15	16QAM	1	37	19.96	19.88	20.11	19.90	19.88	20.80
15	16QAM	1	74	20.04	20.05	20.21	20.06	19.96	20.80
15	16QAM	36	0	20.02	20.12	20.21	20.10	19.99	20.80
15	16QAM	36	20	19.95	20.03	20.04	19.90	20.03	20.80
15	16QAM	36	39	20.03	20.12	20.12	20.07	20.05	20.80
15	16QAM	75	0	20.03	20.02	20.04	19.92	19.91	20.80
15	64QAM	1	0	19.90	19.99	20.09	19.94	19.84	20.80
15	64QAM	1	37	19.95	20.00	20.11	19.89	20.01	20.80
15	64QAM	1	74	19.85	20.08	20.07	19.99	19.92	20.80
15	64QAM	36	0	19.91	19.97	20.01	19.83	19.80	20.80
15	64QAM	36	20	20.05	19.99	20.12	19.85	20.03	20.80
15	64QAM	36	39	20.06	19.90	20.06	19.87	19.89	20.80
15	64QAM	75	0	19.98	20.00	20.22	19.95	20.01	20.80
15	256QAM	1	0	20.06	19.98	20.19	19.97	20.04	20.80
15	256QAM	1	37	20.12	20.11	20.23	20.15	20.13	20.80
15	256QAM	1	74	19.98	19.96	20.10	19.94	19.95	20.80
15	256QAM	36	0	19.96	19.94	20.07	19.96	20.04	20.80
15	256QAM	36	20	19.90	20.03	20.16	19.93	19.93	20.80
15	256QAM	36	39	19.94	19.94	20.13	20.04	20.00	20.80
15	256QAM	75	0	20.02	20.05	20.22	19.93	20.09	20.80
Channel				39700	40160	40620	41080	41540	20.80
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.27	20.37	20.30	20.18	20.22	20.80
10	QPSK	1	25	19.85	19.92	20.05	19.97	19.95	20.80
10	QPSK	1	49	20.09	19.91	20.12	20.10	20.02	20.80
10	QPSK	25	0	20.13	20.14	20.11	20.16	20.10	20.80
10	QPSK	25	12	19.93	20.02	20.09	19.88	19.93	20.80
10	QPSK	25	25	19.87	19.93	20.04	19.99	20.03	20.80
10	QPSK	50	0	20.11	20.10	20.28	20.03	20.04	20.80
10	16QAM	1	0	19.86	20.02	20.07	19.93	19.81	20.80
10	16QAM	1	25	20.01	19.93	20.13	19.87	19.90	20.80



10	16QAM	1	49	20.00	20.12	20.17	20.01	20.00	20.80
10	16QAM	25	0	20.08	20.12	20.16	20.04	20.02	20.80
10	16QAM	25	12	19.87	19.90	20.09	19.95	19.89	20.80
10	16QAM	25	25	20.04	20.03	20.21	20.12	20.05	20.80
10	16QAM	50	0	20.06	19.97	20.14	19.97	19.98	20.80
10	64QAM	1	0	19.94	19.96	20.00	19.90	19.87	20.80
10	64QAM	1	25	19.89	19.99	20.03	19.93	20.00	20.80
10	64QAM	1	49	19.86	19.96	20.11	19.92	19.89	20.80
10	64QAM	25	0	20.00	20.04	20.04	19.82	19.84	20.80
10	64QAM	25	12	19.94	19.92	20.13	19.83	19.99	20.80
10	64QAM	25	25	20.06	19.99	20.03	19.94	19.96	20.80
10	64QAM	50	0	20.02	20.02	20.20	19.95	20.08	20.80
10	256QAM	1	0	20.07	20.02	20.19	19.97	20.05	20.80
10	256QAM	1	25	20.14	20.12	20.23	20.17	20.04	20.80
10	256QAM	1	49	19.88	19.99	20.13	19.93	19.93	20.80
10	256QAM	25	0	19.84	19.98	20.00	20.00	20.01	20.80
10	256QAM	25	12	19.95	19.94	20.06	19.99	19.91	20.80
10	256QAM	25	25	19.94	20.06	20.03	19.96	19.96	20.80
10	256QAM	50	0	19.91	19.95	20.19	20.03	20.04	20.80
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	20.29	20.27	20.41	20.30	20.34	20.80
5	QPSK	1	12	19.90	19.90	20.11	19.91	19.91	20.80
5	QPSK	1	24	20.10	19.93	20.14	20.03	20.10	20.80
5	QPSK	12	0	20.16	20.18	20.15	20.10	20.09	20.80
5	QPSK	12	7	19.91	19.95	20.11	19.85	19.95	20.80
5	QPSK	12	13	19.94	19.96	20.04	20.01	19.94	20.80
5	QPSK	25	0	20.09	20.09	20.25	20.01	20.14	20.80
5	16QAM	1	0	19.92	19.97	20.01	20.01	19.92	20.80
5	16QAM	1	12	20.00	19.92	20.07	19.84	19.96	20.80
5	16QAM	1	24	20.01	20.16	20.20	20.05	19.97	20.80
5	16QAM	12	0	20.02	20.21	20.24	20.15	20.06	20.80
5	16QAM	12	7	19.86	19.97	20.12	19.95	19.98	20.80
5	16QAM	12	13	20.03	20.08	20.13	20.07	20.09	20.80
5	16QAM	25	0	20.05	20.05	20.16	19.90	19.96	20.80
5	64QAM	1	0	19.89	19.95	19.99	19.85	19.90	20.80
5	64QAM	1	12	19.88	19.99	20.12	19.92	19.98	20.80
5	64QAM	1	24	19.87	19.98	20.04	19.92	19.91	20.80
5	64QAM	12	0	20.00	19.99	20.01	19.90	19.86	20.80
5	64QAM	12	7	19.93	19.89	20.16	19.88	20.09	20.80
5	64QAM	12	13	20.03	19.92	20.11	19.94	19.87	20.80
5	64QAM	25	0	20.01	20.00	20.12	19.97	20.06	20.80
5	256QAM	1	0	19.94	19.95	20.22	19.95	19.99	20.80
5	256QAM	1	12	20.15	20.20	20.23	20.10	20.09	20.80
5	256QAM	1	24	19.86	19.98	20.09	19.84	19.97	20.80
5	256QAM	12	0	19.91	19.91	20.07	19.97	19.95	20.80
5	256QAM	12	7	19.89	20.06	20.19	19.93	19.96	20.80
5	256QAM	12	13	20.03	19.99	20.09	19.91	19.94	20.80
5	256QAM	25	0	19.97	19.94	20.23	19.97	20.09	20.80

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 3_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.32	24.18	24.36	24.28	24.23	25.50
20	QPSK	1	49	24.03	23.86	24.12	23.89	23.97	25.50
20	QPSK	1	99	23.99	23.88	24.10	23.95	23.91	25.50
20	QPSK	50	0	24.23	24.13	24.28	24.16	24.19	25.50
20	QPSK	50	24	24.06	23.88	24.13	23.97	23.91	25.50
20	QPSK	50	50	24.16	24.03	24.25	24.03	24.02	25.50
20	QPSK	100	0	24.11	24.16	24.19	24.09	24.03	25.50
20	16QAM	1	0	23.94	23.82	24.09	23.92	23.84	25.50
20	16QAM	1	49	24.08	23.93	24.25	24.09	24.10	25.50
20	16QAM	1	99	24.00	23.95	24.19	24.01	23.96	25.50
20	16QAM	50	0	24.04	23.96	24.19	24.09	24.00	25.50
20	16QAM	50	24	24.07	23.96	24.24	24.07	23.96	25.50
20	16QAM	50	50	23.93	23.82	24.10	23.95	23.94	25.50
20	16QAM	100	0	24.11	23.90	24.17	23.96	24.00	25.50
20	64QAM	1	0	24.11	23.94	24.23	24.12	23.99	25.50
20	64QAM	1	49	23.95	23.86	24.10	23.92	23.93	25.50



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20	64QAM	1	99	24.12	23.92	24.19	24.06	23.97	25.50
20	64QAM	50	0	23.02	22.86	23.09	23.00	22.88	24.00
20	64QAM	50	24	23.01	22.97	23.17	23.04	22.93	24.00
20	64QAM	50	50	23.13	22.96	23.23	23.11	23.07	24.00
20	64QAM	100	0	23.12	23.00	23.21	23.12	22.99	24.00
20	256QAM	1	0	21.01	20.89	21.08	20.94	20.94	22.00
20	256QAM	1	49	21.13	21.05	21.25	21.08	21.01	22.00
20	256QAM	1	99	21.04	20.95	21.21	21.11	21.02	22.00
20	256QAM	50	0	20.98	20.87	21.12	20.97	20.98	22.00
20	256QAM	50	24	21.02	20.97	21.20	21.01	20.95	22.00
20	256QAM	50	50	21.07	20.99	21.18	21.05	20.93	22.00
20	256QAM	100	0	20.95	20.87	21.07	20.88	20.92	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.31	24.15	24.33	24.15	24.17	25.50
15	QPSK	1	37	23.94	23.77	24.10	23.77	23.94	25.50
15	QPSK	1	74	23.88	23.84	24.02	23.83	23.79	25.50
15	QPSK	36	0	24.15	24.02	24.15	24.11	24.06	25.50
15	QPSK	36	20	24.05	23.81	24.07	23.93	23.77	25.50
15	QPSK	36	39	24.09	23.97	24.15	24.01	23.92	25.50
15	QPSK	75	0	23.99	24.12	24.08	23.94	23.89	25.50
15	16QAM	1	0	23.88	23.76	23.95	23.88	23.79	25.50
15	16QAM	1	37	23.99	23.91	24.23	24.05	24.02	25.50
15	16QAM	1	74	23.93	23.89	24.15	23.90	23.90	25.50
15	16QAM	36	0	23.93	23.94	24.12	24.00	23.95	25.50
15	16QAM	36	20	24.02	23.84	24.17	23.95	23.93	25.50
15	16QAM	36	39	23.83	23.72	23.98	23.81	23.87	25.50
15	16QAM	75	0	23.99	23.85	24.09	23.82	23.98	25.50
15	64QAM	1	0	24.00	23.80	24.17	23.99	23.85	25.50
15	64QAM	1	37	23.85	23.74	24.06	23.83	23.79	25.50
15	64QAM	1	74	24.03	23.79	24.16	24.00	23.93	25.50
15	64QAM	36	0	22.97	22.71	23.03	22.86	22.79	24.00
15	64QAM	36	20	22.87	22.84	23.09	23.00	22.82	24.00
15	64QAM	36	39	22.99	22.83	23.19	22.99	22.95	24.00
15	64QAM	75	0	23.04	22.87	23.08	23.05	22.94	24.00
15	256QAM	1	0	20.89	20.82	21.01	20.80	20.85	22.00
15	256QAM	1	37	21.12	20.99	21.12	21.03	20.91	22.00
15	256QAM	1	74	20.92	20.86	21.11	21.03	20.88	22.00
15	256QAM	36	0	20.85	20.85	21.06	20.83	20.96	22.00
15	256QAM	36	20	20.94	20.89	21.18	20.98	20.82	22.00
15	256QAM	36	39	20.96	20.95	21.10	21.03	20.86	22.00
15	256QAM	75	0	20.80	20.83	20.96	20.73	20.78	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.22	24.16	24.22	24.21	24.19	25.50
10	QPSK	1	25	23.95	23.74	23.97	23.82	23.95	25.50
10	QPSK	1	49	23.92	23.81	24.04	23.87	23.88	25.50
10	QPSK	25	0	24.19	24.07	24.25	24.02	24.12	25.50
10	QPSK	25	12	24.00	23.73	24.00	23.92	23.82	25.50
10	QPSK	25	25	24.12	23.98	24.20	23.95	23.96	25.50
10	QPSK	50	0	24.05	24.09	24.17	24.03	23.96	25.50
10	16QAM	1	0	23.89	23.73	24.04	23.82	23.80	25.50
10	16QAM	1	25	24.06	23.92	24.21	24.06	23.99	25.50
10	16QAM	1	49	23.87	23.89	24.08	23.93	23.83	25.50
10	16QAM	25	0	23.92	23.83	24.11	24.00	23.86	25.50
10	16QAM	25	12	23.99	23.94	24.10	23.99	23.86	25.50
10	16QAM	25	25	23.88	23.79	24.04	23.85	23.80	25.50
10	16QAM	50	0	24.09	23.88	24.16	23.83	23.96	25.50
10	64QAM	1	0	24.01	23.91	24.10	24.09	23.96	25.50
10	64QAM	1	25	23.81	23.77	24.08	23.82	23.83	25.50
10	64QAM	1	49	23.99	23.81	24.10	23.95	23.90	25.50
10	64QAM	25	0	23.00	22.75	22.96	22.89	22.80	24.00
10	64QAM	25	12	22.99	22.89	23.10	22.90	22.79	24.00
10	64QAM	25	25	23.04	22.88	23.10	23.07	23.03	24.00
10	64QAM	50	0	23.05	22.86	23.14	23.01	22.93	24.00
10	256QAM	1	0	20.94	20.80	21.04	20.81	20.82	22.00
10	256QAM	1	25	21.07	20.97	21.17	21.03	20.97	22.00
10	256QAM	1	49	21.00	20.88	21.19	21.00	21.00	22.00
10	256QAM	25	0	20.83	20.78	21.10	20.84	20.86	22.00
10	256QAM	25	12	20.88	20.96	21.14	20.89	20.87	22.00
10	256QAM	25	25	20.96	20.86	21.05	20.97	20.86	22.00
10	256QAM	50	0	20.93	20.79	21.03	20.87	20.85	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	24.23	24.15	24.25	24.24	24.18	25.50



5	QPSK	1	12	23.95	23.74	24.10	23.84	23.86	25.50
5	QPSK	1	24	23.93	23.84	24.04	23.93	23.78	25.50
5	QPSK	12	0	24.17	24.06	24.15	24.14	24.17	25.50
5	QPSK	12	7	24.02	23.83	24.01	23.85	23.84	25.50
5	QPSK	12	13	24.10	24.02	24.23	23.89	23.88	25.50
5	QPSK	25	0	23.97	24.07	24.11	23.95	23.98	25.50
5	16QAM	1	0	23.91	23.69	23.96	23.81	23.69	25.50
5	16QAM	1	12	24.04	23.83	24.11	23.98	24.04	25.50
5	16QAM	1	24	23.94	23.94	24.12	23.92	23.92	25.50
5	16QAM	12	0	23.93	23.88	24.11	24.05	23.86	25.50
5	16QAM	12	7	23.94	23.86	24.21	23.96	23.92	25.50
5	16QAM	12	13	23.82	23.77	24.04	23.81	23.93	25.50
5	16QAM	25	0	23.98	23.82	24.12	23.94	23.86	25.50
5	64QAM	1	0	24.04	23.89	24.11	24.03	23.98	25.50
5	64QAM	1	12	23.91	23.75	24.03	23.79	23.89	25.50
5	64QAM	1	24	24.05	23.89	24.04	24.01	23.85	25.50
5	64QAM	12	0	23.00	22.82	23.03	22.90	22.78	24.00
5	64QAM	12	7	22.95	22.93	23.11	23.02	22.80	24.00
5	64QAM	12	13	22.99	22.85	23.14	22.97	22.94	24.00
5	64QAM	25	0	23.08	22.99	23.15	22.98	22.98	24.00
5	256QAM	1	0	20.98	20.81	20.94	20.85	20.80	22.00
5	256QAM	1	12	21.08	21.04	21.16	20.98	20.90	22.00
5	256QAM	1	24	20.89	20.92	21.12	21.03	20.92	22.00
5	256QAM	12	0	20.91	20.82	21.00	20.85	20.84	22.00
5	256QAM	12	7	20.94	20.91	21.07	21.00	20.90	22.00
5	256QAM	12	13	20.96	20.86	21.14	21.00	20.78	22.00
5	256QAM	25	0	20.80	20.85	20.96	20.84	20.78	22.00

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 3_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	16.60
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	15.58	15.50	15.61	15.51	15.53	16.60
20	QPSK	1	49	15.52	15.42	15.52	15.44	15.41	16.60
20	QPSK	1	99	15.45	15.36	15.52	15.40	15.41	16.60
20	QPSK	50	0	15.54	15.39	15.59	15.43	15.41	16.60
20	QPSK	50	24	15.50	15.40	15.46	15.46	15.47	16.60
20	QPSK	50	50	15.47	15.44	15.54	15.46	15.40	16.60
20	QPSK	100	0	15.51	15.36	15.47	15.46	15.42	16.60
20	16QAM	1	0	15.54	15.39	15.51	15.40	15.49	16.60
20	16QAM	1	49	15.50	15.44	15.50	15.45	15.47	16.60
20	16QAM	1	99	15.55	15.46	15.52	15.40	15.44	16.60
20	16QAM	50	0	15.44	15.46	15.50	15.43	15.39	16.60
20	16QAM	50	24	15.47	15.47	15.57	15.42	15.47	16.60
20	16QAM	50	50	15.47	15.46	15.56	15.45	15.41	16.60
20	16QAM	100	0	15.50	15.41	15.52	15.43	15.40	16.60
20	64QAM	1	0	15.46	15.40	15.49	15.47	15.42	16.60
20	64QAM	1	49	15.46	15.39	15.47	15.37	15.46	16.60
20	64QAM	1	99	15.51	15.37	15.50	15.41	15.42	16.60
20	64QAM	50	0	15.50	15.44	15.48	15.42	15.48	16.60
20	64QAM	50	24	15.55	15.38	15.55	15.38	15.48	16.60
20	64QAM	50	50	15.45	15.42	15.49	15.42	15.43	16.60
20	64QAM	100	0	15.53	15.39	15.54	15.44	15.49	16.60
20	256QAM	1	0	15.55	15.40	15.48	15.43	15.44	16.60
20	256QAM	1	49	15.54	15.47	15.55	15.48	15.44	16.60
20	256QAM	1	99	15.49	15.45	15.55	15.46	15.40	16.60
20	256QAM	50	0	15.54	15.40	15.47	15.38	15.39	16.60
20	256QAM	50	24	15.53	15.39	15.47	15.46	15.40	16.60
20	256QAM	50	50	15.46	15.47	15.47	15.43	15.42	16.60
20	256QAM	100	0	15.45	15.47	15.47	15.38	15.39	16.60
Channel				39725	40173	40620	41068	41515	16.60
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	15.54	15.37	15.57	15.40	15.41	16.60
15	QPSK	1	37	15.50	15.36	15.41	15.30	15.40	16.60
15	QPSK	1	74	15.42	15.22	15.43	15.29	15.37	16.60
15	QPSK	36	0	15.48	15.36	15.57	15.39	15.38	16.60
15	QPSK	36	20	15.41	15.29	15.43	15.44	15.33	16.60
15	QPSK	36	39	15.43	15.39	15.48	15.40	15.35	16.60
15	QPSK	75	0	15.37	15.29	15.40	15.40	15.36	16.60
15	16QAM	1	0	15.41	15.34	15.46	15.37	15.41	16.60



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15	16QAM	1	37	15.37	15.31	15.43	15.43	15.40	16.60
15	16QAM	1	74	15.41	15.40	15.38	15.31	15.40	16.60
15	16QAM	36	0	15.31	15.33	15.47	15.34	15.31	16.60
15	16QAM	36	20	15.33	15.41	15.50	15.28	15.38	16.60
15	16QAM	36	39	15.40	15.37	15.48	15.39	15.35	16.60
15	16QAM	75	0	15.39	15.33	15.42	15.40	15.31	16.60
15	64QAM	1	0	15.32	15.34	15.41	15.35	15.37	16.60
15	64QAM	1	37	15.37	15.33	15.35	15.31	15.33	16.60
15	64QAM	1	74	15.47	15.28	15.36	15.27	15.36	16.60
15	64QAM	36	0	15.40	15.32	15.44	15.40	15.41	16.60
15	64QAM	36	20	15.43	15.32	15.43	15.32	15.39	16.60
15	64QAM	36	39	15.41	15.41	15.36	15.29	15.33	16.60
15	64QAM	75	0	15.45	15.37	15.44	15.29	15.41	16.60
15	256QAM	1	0	15.52	15.37	15.46	15.32	15.36	16.60
15	256QAM	1	37	15.50	15.42	15.49	15.37	15.30	16.60
15	256QAM	1	74	15.34	15.41	15.42	15.40	15.31	16.60
15	256QAM	36	0	15.51	15.39	15.44	15.36	15.31	16.60
15	256QAM	36	20	15.50	15.36	15.35	15.43	15.32	16.60
15	256QAM	36	39	15.34	15.33	15.36	15.35	15.40	16.60
15	256QAM	75	0	15.38	15.38	15.45	15.29	15.30	16.60
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	15.55	15.42	15.60	15.39	15.44	16.60
10	QPSK	1	25	15.41	15.34	15.48	15.31	15.27	16.60
10	QPSK	1	49	15.36	15.33	15.41	15.36	15.34	16.60
10	QPSK	25	0	15.42	15.33	15.48	15.38	15.33	16.60
10	QPSK	25	12	15.46	15.38	15.32	15.35	15.41	16.60
10	QPSK	25	25	15.39	15.33	15.44	15.39	15.36	16.60
10	QPSK	50	0	15.36	15.33	15.36	15.33	15.27	16.60
10	16QAM	1	0	15.42	15.29	15.43	15.37	15.38	16.60
10	16QAM	1	25	15.45	15.35	15.37	15.37	15.33	16.60
10	16QAM	1	49	15.53	15.42	15.41	15.28	15.39	16.60
10	16QAM	25	0	15.31	15.38	15.40	15.37	15.36	16.60
10	16QAM	25	12	15.45	15.36	15.46	15.40	15.32	16.60
10	16QAM	25	25	15.32	15.34	15.54	15.34	15.34	16.60
10	16QAM	50	0	15.39	15.35	15.39	15.31	15.27	16.60
10	64QAM	1	0	15.43	15.32	15.35	15.37	15.29	16.60
10	64QAM	1	25	15.39	15.34	15.41	15.23	15.36	16.60
10	64QAM	1	49	15.38	15.33	15.40	15.29	15.32	16.60
10	64QAM	25	0	15.48	15.40	15.46	15.27	15.35	16.60
10	64QAM	25	12	15.42	15.35	15.47	15.27	15.39	16.60
10	64QAM	25	25	15.42	15.39	15.45	15.40	15.34	16.60
10	64QAM	50	0	15.48	15.29	15.51	15.29	15.46	16.60
10	256QAM	1	0	15.50	15.28	15.43	15.34	15.30	16.60
10	256QAM	1	25	15.45	15.38	15.41	15.38	15.42	16.60
10	256QAM	1	49	15.42	15.38	15.42	15.39	15.38	16.60
10	256QAM	25	0	15.44	15.35	15.46	15.24	15.29	16.60
10	256QAM	25	12	15.46	15.35	15.44	15.35	15.31	16.60
10	256QAM	25	25	15.34	15.32	15.44	15.40	15.36	16.60
10	256QAM	50	0	15.34	15.45	15.41	15.34	15.32	16.60
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	15.44	15.41	15.54	15.49	15.47	16.60
5	QPSK	1	12	15.47	15.38	15.41	15.39	15.35	16.60
5	QPSK	1	24	15.34	15.25	15.39	15.29	15.38	16.60
5	QPSK	12	0	15.48	15.35	15.49	15.31	15.33	16.60
5	QPSK	12	7	15.40	15.26	15.38	15.36	15.41	16.60
5	QPSK	12	13	15.33	15.37	15.44	15.41	15.36	16.60
5	QPSK	25	0	15.43	15.23	15.36	15.38	15.27	16.60
5	16QAM	1	0	15.42	15.27	15.37	15.31	15.45	16.60
5	16QAM	1	12	15.40	15.40	15.40	15.32	15.38	16.60
5	16QAM	1	24	15.54	15.41	15.45	15.25	15.36	16.60
5	16QAM	12	0	15.39	15.39	15.45	15.33	15.37	16.60
5	16QAM	12	7	15.41	15.44	15.54	15.41	15.44	16.60
5	16QAM	12	13	15.40	15.34	15.45	15.37	15.38	16.60
5	16QAM	25	0	15.45	15.30	15.42	15.40	15.34	16.60
5	64QAM	1	0	15.38	15.26	15.38	15.37	15.29	16.60
5	64QAM	1	12	15.35	15.31	15.42	15.32	15.37	16.60
5	64QAM	1	24	15.40	15.33	15.40	15.36	15.30	16.60
5	64QAM	12	0	15.44	15.32	15.36	15.36	15.35	16.60
5	64QAM	12	7	15.46	15.28	15.52	15.35	15.38	16.60
5	64QAM	12	13	15.31	15.41	15.41	15.37	15.33	16.60
5	64QAM	25	0	15.44	15.36	15.48	15.29	15.34	16.60
5	256QAM	1	0	15.49	15.37	15.34	15.40	15.42	16.60
5	256QAM	1	12	15.41	15.33	15.53	15.34	15.41	16.60
5	256QAM	1	24	15.48	15.39	15.47	15.33	15.38	16.60



5	256QAM	12	0	15.51	15.28	15.43	15.34	15.29	16.60
5	256QAM	12	7	15.44	15.29	15.34	15.40	15.29	16.60
5	256QAM	12	13	15.38	15.34	15.32	15.30	15.33	16.60
5	256QAM	25	0	15.37	15.42	15.43	15.25	15.30	16.60

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 3_DSI 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	20.20
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.32	19.36	19.46	19.41	19.45	20.20
20	QPSK	1	49	19.02	19.07	19.18	19.02	19.03	20.20
20	QPSK	1	99	18.95	19.05	19.18	19.08	19.13	20.20
20	QPSK	50	0	19.26	19.30	19.35	19.27	19.24	20.20
20	QPSK	50	24	19.04	19.08	19.26	19.14	19.18	20.20
20	QPSK	50	50	19.14	19.15	19.34	19.26	19.23	20.20
20	QPSK	100	0	19.30	19.21	19.32	19.26	19.18	20.20
20	16QAM	1	0	18.91	18.96	19.18	19.10	19.06	20.20
20	16QAM	1	49	19.03	19.10	19.30	19.19	19.19	20.20
20	16QAM	1	99	19.00	19.08	19.22	19.04	19.07	20.20
20	16QAM	50	0	19.15	19.22	19.35	19.22	19.26	20.20
20	16QAM	50	24	19.11	19.09	19.27	19.18	19.11	20.20
20	16QAM	50	50	19.02	19.01	19.25	19.11	19.22	20.20
20	16QAM	100	0	19.08	19.06	19.27	19.16	19.13	20.20
20	64QAM	1	0	18.90	19.04	19.19	19.11	19.07	20.20
20	64QAM	1	49	19.10	19.21	19.34	19.16	19.23	20.20
20	64QAM	1	99	19.11	19.12	19.29	19.18	19.17	20.20
20	64QAM	50	0	19.10	19.16	19.30	19.10	19.23	20.20
20	64QAM	50	24	19.13	19.09	19.29	19.22	19.25	20.20
20	64QAM	50	50	19.07	19.12	19.33	19.27	19.18	20.20
20	64QAM	100	0	18.97	19.05	19.19	19.05	19.14	20.20
20	256QAM	1	0	19.01	18.99	19.21	19.11	19.16	20.20
20	256QAM	1	49	19.17	19.12	19.33	19.23	19.21	20.20
20	256QAM	1	99	19.01	18.98	19.18	19.00	19.13	20.20
20	256QAM	50	0	19.01	18.98	19.18	19.01	19.14	20.20
20	256QAM	50	24	18.91	19.06	19.18	19.07	19.15	20.20
20	256QAM	50	50	19.06	19.12	19.28	19.17	19.18	20.20
20	256QAM	100	0	19.07	19.17	19.33	19.15	19.19	20.20
Channel				39725	40173	40620	41068	41515	20.20
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.29	19.26	19.45	19.29	19.31	20.20
15	QPSK	1	37	18.87	18.97	19.10	18.95	18.98	20.20
15	QPSK	1	74	18.81	18.94	19.14	18.94	19.04	20.20
15	QPSK	36	0	19.15	19.25	19.21	19.14	19.22	20.20
15	QPSK	36	20	18.94	19.04	19.12	19.01	19.14	20.20
15	QPSK	36	39	19.12	19.07	19.31	19.14	19.21	20.20
15	QPSK	75	0	19.19	19.07	19.27	19.22	19.15	20.20
15	16QAM	1	0	18.81	18.95	19.14	18.98	18.97	20.20
15	16QAM	1	37	18.96	19.06	19.26	19.12	19.10	20.20
15	16QAM	1	74	18.96	19.04	19.20	19.00	18.97	20.20
15	16QAM	36	0	19.13	19.21	19.33	19.12	19.15	20.20
15	16QAM	36	20	19.05	18.99	19.18	19.17	19.05	20.20
15	16QAM	36	39	19.00	18.86	19.24	19.07	19.20	20.20
15	16QAM	75	0	18.96	18.99	19.22	19.05	19.11	20.20
15	64QAM	1	0	18.88	18.95	19.15	19.02	18.95	20.20
15	64QAM	1	37	18.95	19.15	19.25	19.07	19.22	20.20
15	64QAM	1	74	19.00	19.03	19.24	19.05	19.14	20.20
15	64QAM	36	0	19.01	19.07	19.23	19.09	19.13	20.20
15	64QAM	36	20	19.09	19.05	19.18	19.16	19.18	20.20
15	64QAM	36	39	18.98	19.03	19.24	19.23	19.16	20.20
15	64QAM	75	0	18.90	19.01	19.07	18.93	19.05	20.20
15	256QAM	1	0	18.99	18.88	19.20	19.07	19.10	20.20
15	256QAM	1	37	19.11	19.04	19.30	19.13	19.11	20.20
15	256QAM	1	74	18.99	18.87	19.08	18.88	19.06	20.20
15	256QAM	36	0	18.90	18.84	19.03	18.98	19.09	20.20
15	256QAM	36	20	18.81	18.92	19.15	18.93	19.13	20.20
15	256QAM	36	39	18.97	19.08	19.13	19.11	19.08	20.20
15	256QAM	75	0	18.96	19.09	19.23	19.10	19.17	20.20
Channel				39700	40160	40620	41080	41540	20.20
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	19.24	19.34	19.42	19.37	19.37	20.20



10	QPSK	1	25	18.88	18.97	19.15	18.95	18.97	20.20
10	QPSK	1	49	18.90	18.97	19.16	19.06	19.03	20.20
10	QPSK	25	0	19.17	19.19	19.27	19.24	19.10	20.20
10	QPSK	25	12	19.01	18.96	19.17	19.08	19.09	20.20
10	QPSK	25	25	19.08	19.05	19.23	19.11	19.09	20.20
10	QPSK	50	0	19.17	19.15	19.18	19.16	19.06	20.20
10	16QAM	1	0	18.89	18.93	19.04	18.97	19.03	20.20
10	16QAM	1	25	18.91	19.05	19.19	19.11	19.04	20.20
10	16QAM	1	49	18.94	18.99	19.15	19.03	19.04	20.20
10	16QAM	25	0	19.04	19.13	19.27	19.12	19.18	20.20
10	16QAM	25	12	19.02	19.06	19.21	19.15	18.97	20.20
10	16QAM	25	25	18.98	18.91	19.16	19.00	19.18	20.20
10	16QAM	50	0	19.02	19.02	19.16	19.08	19.02	20.20
10	64QAM	1	0	18.76	19.03	19.14	19.01	19.03	20.20
10	64QAM	1	25	18.98	19.09	19.28	19.14	19.16	20.20
10	64QAM	1	49	19.08	19.08	19.25	19.14	19.07	20.20
10	64QAM	25	0	19.07	19.06	19.21	19.09	19.19	20.20
10	64QAM	25	12	19.00	18.99	19.27	19.15	19.22	20.20
10	64QAM	25	25	19.04	19.08	19.28	19.23	19.05	20.20
10	64QAM	50	0	18.89	18.97	19.08	18.95	19.02	20.20
10	256QAM	1	0	18.90	18.84	19.14	19.03	19.02	20.20
10	256QAM	1	25	19.12	19.03	19.22	19.14	19.08	20.20
10	256QAM	1	49	19.00	18.86	19.12	18.89	19.05	20.20
10	256QAM	25	0	18.91	18.86	19.10	18.97	19.05	20.20
10	256QAM	25	12	18.80	18.98	19.08	19.03	19.02	20.20
10	256QAM	25	25	18.96	19.08	19.23	19.10	19.03	20.20
10	256QAM	50	0	18.99	19.05	19.27	19.07	19.16	20.20
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	19.27	19.25	19.41	19.39	19.43	20.20
5	QPSK	1	12	18.88	18.94	19.12	18.90	19.02	20.20
5	QPSK	1	24	18.88	18.96	19.11	19.02	18.99	20.20
5	QPSK	12	0	19.16	19.27	19.33	19.25	19.18	20.20
5	QPSK	12	7	18.91	18.98	19.21	19.02	19.09	20.20
5	QPSK	12	13	19.08	19.03	19.26	19.19	19.11	20.20
5	QPSK	25	0	19.27	19.19	19.18	19.13	19.08	20.20
5	16QAM	1	0	18.82	18.83	19.11	19.04	18.98	20.20
5	16QAM	1	12	18.92	19.01	19.17	19.04	19.11	20.20
5	16QAM	1	24	18.86	18.99	19.18	18.93	18.94	20.20
5	16QAM	12	0	19.04	19.19	19.31	19.15	19.13	20.20
5	16QAM	12	7	19.01	19.01	19.14	19.13	19.08	20.20
5	16QAM	12	13	18.98	18.88	19.16	19.08	19.19	20.20
5	16QAM	25	0	19.02	18.97	19.19	19.10	19.09	20.20
5	64QAM	1	0	18.82	19.02	19.13	18.97	19.01	20.20
5	64QAM	1	12	19.01	19.13	19.29	19.03	19.10	20.20
5	64QAM	1	24	19.03	19.09	19.20	19.10	19.11	20.20
5	64QAM	12	0	19.02	19.09	19.27	19.00	19.18	20.20
5	64QAM	12	7	19.07	18.98	19.19	19.21	19.11	20.20
5	64QAM	12	13	18.97	19.10	19.27	19.26	19.10	20.20
5	64QAM	25	0	18.92	19.03	19.14	19.00	19.02	20.20
5	256QAM	1	0	18.97	18.87	19.18	19.09	19.04	20.20
5	256QAM	1	12	19.11	19.08	19.30	19.08	19.07	20.20
5	256QAM	1	24	18.97	18.89	19.12	18.88	19.03	20.20
5	256QAM	12	0	18.86	18.93	19.14	18.89	19.05	20.20
5	256QAM	12	7	18.88	18.97	19.15	18.95	19.03	20.20
5	256QAM	12	13	18.91	19.05	19.23	19.06	19.11	20.20
5	256QAM	25	0	19.06	19.09	19.21	19.02	19.07	20.20

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 3_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.15	26.17	26.33	26.09	26.02	27.00
20	QPSK	1	49	26.07	26.09	26.30	25.97	25.92	27.00
20	QPSK	1	99	25.76	25.81	26.01	25.64	25.62	27.00
20	QPSK	50	0	25.20	25.16	25.39	25.14	24.95	26.00
20	QPSK	50	24	25.14	25.11	25.31	25.09	24.91	26.00
20	QPSK	50	50	25.03	25.10	25.35	25.04	24.94	26.00
20	QPSK	100	0	25.03	25.13	25.32	24.95	25.00	26.00
20	16QAM	1	0	25.33	25.26	25.53	25.17	25.15	26.00



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20	16QAM	1	49	25.37	25.32	25.56	25.23	25.16	26.00
20	16QAM	1	99	25.04	25.14	25.36	25.10	24.92	26.00
20	16QAM	50	0	24.10	24.14	24.31	24.02	23.96	25.00
20	16QAM	50	24	24.20	24.18	24.39	24.02	23.98	25.00
20	16QAM	50	50	24.14	24.08	24.34	24.05	23.93	25.00
20	16QAM	100	0	24.17	24.09	24.36	24.01	24.01	25.00
20	64QAM	1	0	24.34	24.38	24.56	24.22	24.16	25.00
20	64QAM	1	49	24.39	24.34	24.63	24.31	24.26	25.00
20	64QAM	1	99	24.22	24.22	24.40	24.05	24.03	25.00
20	64QAM	50	0	23.07	23.10	23.29	22.96	22.99	24.00
20	64QAM	50	24	23.09	23.09	23.37	23.10	22.95	24.00
20	64QAM	50	50	23.17	23.10	23.35	23.03	22.95	24.00
20	64QAM	100	0	23.04	23.18	23.34	23.04	23.05	24.00
20	256QAM	1	0	21.25	21.25	21.45	21.18	21.15	22.00
20	256QAM	1	49	21.34	21.36	21.56	21.27	21.28	22.00
20	256QAM	1	99	21.08	21.13	21.34	21.06	21.02	22.00
20	256QAM	50	0	21.10	21.14	21.31	21.05	20.98	22.00
20	256QAM	50	24	21.14	21.15	21.37	21.06	21.00	22.00
20	256QAM	50	50	21.06	21.13	21.29	21.00	20.93	22.00
20	256QAM	100	0	21.15	21.08	21.32	21.11	20.92	22.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.07	26.08	26.21	25.96	25.91	27.00
15	QPSK	1	37	26.04	25.94	26.22	25.92	25.83	27.00
15	QPSK	1	74	25.68	25.79	25.97	25.56	25.49	27.00
15	QPSK	36	0	24.97	25.07	25.29	25.02	24.80	26.00
15	QPSK	36	20	25.11	25.08	25.28	25.12	24.91	26.00
15	QPSK	36	39	24.98	25.05	25.33	25.01	24.89	26.00
15	QPSK	75	0	24.97	25.08	25.21	24.80	24.93	26.00
15	16QAM	1	0	25.25	25.23	25.40	25.15	25.09	26.00
15	16QAM	1	37	25.30	25.28	25.47	25.10	25.06	26.00
15	16QAM	1	74	24.92	25.07	25.25	25.04	24.87	26.00
15	16QAM	36	0	23.96	24.10	24.22	23.92	23.82	25.00
15	16QAM	36	20	24.15	24.11	24.29	23.95	23.83	25.00
15	16QAM	36	39	24.07	23.94	24.32	23.91	23.79	25.00
15	16QAM	75	0	24.08	24.00	24.25	23.94	23.91	25.00
15	64QAM	1	0	24.25	24.26	24.53	24.18	24.12	25.00
15	64QAM	1	37	24.30	24.32	24.56	24.16	24.17	25.00
15	64QAM	1	74	24.13	24.10	24.37	23.96	23.95	25.00
15	64QAM	36	0	22.93	23.03	23.26	22.94	22.87	24.00
15	64QAM	36	20	22.95	23.04	23.26	23.05	22.85	24.00
15	64QAM	36	39	23.03	23.00	23.30	22.98	22.81	24.00
15	64QAM	75	0	22.93	23.12	23.23	22.91	22.94	24.00
15	256QAM	1	0	21.10	21.21	21.38	21.15	21.10	22.00
15	256QAM	1	37	21.32	21.26	21.43	21.21	21.22	22.00
15	256QAM	1	74	21.06	21.02	21.21	20.96	20.93	22.00
15	256QAM	36	0	20.96	21.09	21.19	20.91	20.87	22.00
15	256QAM	36	20	21.12	21.12	21.35	20.91	20.86	22.00
15	256QAM	36	39	21.03	21.12	21.16	20.92	20.87	22.00
15	256QAM	75	0	21.12	21.05	21.26	20.96	20.90	22.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.13	26.14	26.28	25.97	25.90	27.00
10	QPSK	1	25	25.98	26.06	26.21	25.90	25.79	27.00
10	QPSK	1	49	25.74	25.66	25.90	25.57	25.53	27.00
10	QPSK	25	0	24.96	25.00	25.18	24.96	24.82	26.00
10	QPSK	25	12	25.15	25.11	25.33	25.08	24.86	26.00
10	QPSK	25	25	24.92	24.97	25.29	25.01	24.84	26.00
10	QPSK	50	0	24.89	25.01	25.28	24.82	24.93	26.00
10	16QAM	1	0	25.29	25.25	25.49	25.09	25.02	26.00
10	16QAM	1	25	25.32	25.28	25.52	25.13	25.10	26.00
10	16QAM	1	49	25.00	25.11	25.35	25.00	24.89	26.00
10	16QAM	25	0	24.03	24.11	24.17	23.90	23.94	25.00
10	16QAM	25	12	24.12	24.13	24.35	23.94	23.84	25.00
10	16QAM	25	25	24.09	24.02	24.20	23.92	23.89	25.00
10	16QAM	50	0	24.08	23.97	24.32	23.96	24.00	25.00
10	64QAM	1	0	24.19	24.28	24.43	24.15	24.13	25.00
10	64QAM	1	25	24.35	24.30	24.53	24.23	24.18	25.00
10	64QAM	1	49	24.07	24.18	24.36	24.03	23.99	25.00
10	64QAM	25	0	22.94	23.06	23.20	22.90	22.93	24.00
10	64QAM	25	12	23.00	23.04	23.29	23.02	22.88	24.00
10	64QAM	25	25	23.10	22.99	23.27	22.98	22.91	24.00
10	64QAM	50	0	22.99	23.14	23.31	23.02	22.91	24.00
10	256QAM	1	0	21.14	21.10	21.39	21.09	21.09	22.00
10	256QAM	1	25	21.28	21.28	21.46	21.24	21.13	22.00
10	256QAM	1	49	21.00	21.05	21.28	20.98	20.87	22.00



10	256QAM	25	0	21.00	20.99	21.20	20.94	20.96	22.00
10	256QAM	25	12	21.10	21.13	21.33	21.03	20.98	22.00
10	256QAM	25	25	20.92	21.10	21.27	20.85	20.86	22.00
10	256QAM	50	0	21.10	20.98	21.21	21.04	20.81	22.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	26.09	26.03	26.26	25.96	25.93	27.00
5	QPSK	1	12	26.03	26.08	26.25	25.92	25.85	27.00
5	QPSK	1	24	25.75	25.67	26.00	25.52	25.56	27.00
5	QPSK	12	0	24.87	25.00	25.29	25.00	24.92	26.00
5	QPSK	12	7	25.11	25.12	25.27	25.12	24.86	26.00
5	QPSK	12	13	24.91	25.06	25.32	24.96	24.82	26.00
5	QPSK	25	0	25.01	25.08	25.23	24.80	24.92	26.00
5	16QAM	1	0	25.31	25.25	25.48	25.08	25.09	26.00
5	16QAM	1	12	25.33	25.23	25.42	25.14	25.04	26.00
5	16QAM	1	24	24.91	25.08	25.27	25.01	24.78	26.00
5	16QAM	12	0	24.06	24.13	24.20	23.99	23.84	25.00
5	16QAM	12	7	24.06	24.08	24.34	23.99	23.89	25.00
5	16QAM	12	13	24.00	23.97	24.30	23.92	23.86	25.00
5	16QAM	25	0	24.04	24.01	24.33	24.00	23.91	25.00
5	64QAM	1	0	24.21	24.34	24.51	24.09	24.08	25.00
5	64QAM	1	12	24.30	24.27	24.56	24.29	24.23	25.00
5	64QAM	1	24	24.13	24.13	24.31	23.94	23.88	25.00
5	64QAM	12	0	22.93	23.06	23.17	22.88	22.91	24.00
5	64QAM	12	7	22.95	23.03	23.33	23.07	22.91	24.00
5	64QAM	12	13	23.07	23.04	23.21	22.91	22.87	24.00
5	64QAM	25	0	22.95	23.15	23.24	22.99	22.93	24.00
5	256QAM	1	0	21.11	21.18	21.36	21.10	21.01	22.00
5	256QAM	1	12	21.24	21.28	21.46	21.25	21.14	22.00
5	256QAM	1	24	21.06	21.10	21.21	21.02	20.99	22.00
5	256QAM	12	0	21.09	21.10	21.27	20.96	20.84	22.00
5	256QAM	12	7	21.04	21.06	21.29	20.91	20.90	22.00
5	256QAM	12	13	20.93	20.99	21.19	20.87	20.80	22.00
5	256QAM	25	0	21.04	20.95	21.20	21.08	20.91	22.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 4_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.92	21.95	22.05	21.89	21.88	23.00
20	QPSK	1	49	21.75	21.77	21.94	21.72	21.73	23.00
20	QPSK	1	99	21.71	21.81	21.92	21.71	21.60	23.00
20	QPSK	50	0	21.02	21.06	21.09	20.96	20.92	22.00
20	QPSK	50	24	20.77	20.80	21.02	20.79	20.75	22.00
20	QPSK	50	50	20.81	20.81	21.02	20.82	20.76	22.00
20	QPSK	100	0	20.81	20.84	21.07	20.90	20.83	22.00
20	16QAM	1	0	20.82	20.84	21.04	20.76	20.78	22.00
20	16QAM	1	49	20.77	20.79	20.97	20.77	20.74	22.00
20	16QAM	1	99	20.91	20.88	21.07	20.87	20.84	22.00
20	16QAM	50	0	19.82	19.83	19.98	19.74	19.78	21.00
20	16QAM	50	24	19.83	19.80	20.01	19.79	19.83	21.00
20	16QAM	50	50	19.66	19.80	19.90	19.73	19.62	21.00
20	16QAM	100	0	19.82	19.80	19.97	19.70	19.70	21.00
20	64QAM	1	0	19.85	19.92	20.05	19.78	19.83	21.00
20	64QAM	1	49	19.70	19.74	19.88	19.68	19.64	21.00
20	64QAM	1	99	19.83	19.90	20.04	19.87	19.83	21.00
20	64QAM	50	0	18.81	18.81	18.94	18.66	18.77	20.00
20	64QAM	50	24	18.76	18.83	18.93	18.77	18.67	20.00
20	64QAM	50	50	18.74	18.83	18.98	18.82	18.74	20.00
20	64QAM	100	0	18.70	18.60	18.83	18.57	18.54	20.00
20	256QAM	1	0	16.67	16.71	16.91	16.77	16.65	18.00
20	256QAM	1	49	16.80	16.85	16.96	16.73	16.78	18.00
20	256QAM	1	99	16.66	16.71	16.87	16.61	16.73	18.00
20	256QAM	50	0	16.87	16.92	17.04	16.77	16.79	18.00
20	256QAM	50	24	16.90	16.87	17.05	16.83	16.79	18.00
20	256QAM	50	50	16.79	16.83	16.98	16.76	16.73	18.00
20	256QAM	100	0	16.83	16.84	17.02	16.76	16.85	18.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.78	21.91	22.03	21.79	21.79	23.00



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15	QPSK	1	37	21.65	21.71	21.84	21.64	21.68	23.00
15	QPSK	1	74	21.61	21.79	21.82	21.63	21.54	23.00
15	QPSK	36	0	20.91	21.01	20.95	20.86	20.78	22.00
15	QPSK	36	20	20.73	20.68	20.88	20.67	20.63	22.00
15	QPSK	36	39	20.78	20.77	20.98	20.68	20.73	22.00
15	QPSK	75	0	20.78	20.81	21.03	20.84	20.75	22.00
15	16QAM	1	0	20.77	20.81	21.00	20.62	20.71	22.00
15	16QAM	1	37	20.67	20.74	20.84	20.65	20.61	22.00
15	16QAM	1	74	20.81	20.76	20.96	20.77	20.78	22.00
15	16QAM	36	0	19.69	19.72	19.89	19.61	19.67	21.00
15	16QAM	36	20	19.76	19.72	20.00	19.71	19.69	21.00
15	16QAM	36	39	19.60	19.66	19.79	19.68	19.60	21.00
15	16QAM	75	0	19.73	19.76	19.92	19.60	19.60	21.00
15	64QAM	1	0	19.81	19.80	19.94	19.69	19.80	21.00
15	64QAM	1	37	19.60	19.59	19.87	19.64	19.57	21.00
15	64QAM	1	74	19.74	19.84	19.92	19.85	19.80	21.00
15	64QAM	36	0	18.77	18.72	18.83	18.63	18.64	20.00
15	64QAM	36	20	18.69	18.79	18.82	18.73	18.59	20.00
15	64QAM	36	39	18.59	18.77	18.89	18.74	18.70	20.00
15	64QAM	75	0	18.60	18.56	18.70	18.52	18.40	20.00
15	256QAM	1	0	16.57	16.57	16.81	16.72	16.59	18.00
15	256QAM	1	37	16.71	16.84	16.86	16.70	16.74	18.00
15	256QAM	1	74	16.52	16.70	16.82	16.48	16.68	18.00
15	256QAM	36	0	16.78	16.89	16.96	16.67	16.72	18.00
15	256QAM	36	20	16.87	16.78	16.93	16.80	16.64	18.00
15	256QAM	36	39	16.75	16.80	16.85	16.72	16.64	18.00
15	256QAM	75	0	16.82	16.83	17.00	16.71	16.82	18.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.87	21.90	21.92	21.84	21.81	23.00
10	QPSK	1	25	21.66	21.75	21.91	21.70	21.61	23.00
10	QPSK	1	49	21.57	21.79	21.84	21.59	21.52	23.00
10	QPSK	25	0	20.99	21.01	21.04	20.92	20.91	22.00
10	QPSK	25	12	20.68	20.77	20.89	20.71	20.67	22.00
10	QPSK	25	25	20.67	20.69	20.91	20.80	20.66	22.00
10	QPSK	50	0	20.76	20.82	20.95	20.83	20.74	22.00
10	16QAM	1	0	20.68	20.82	20.96	20.68	20.76	22.00
10	16QAM	1	25	20.64	20.78	20.84	20.68	20.62	22.00
10	16QAM	1	49	20.77	20.75	21.03	20.84	20.69	22.00
10	16QAM	25	0	19.77	19.76	19.90	19.66	19.77	21.00
10	16QAM	25	12	19.72	19.71	19.96	19.71	19.71	21.00
10	16QAM	25	25	19.63	19.66	19.87	19.66	19.54	21.00
10	16QAM	50	0	19.78	19.67	19.82	19.61	19.60	21.00
10	64QAM	1	0	19.72	19.88	19.95	19.76	19.70	21.00
10	64QAM	1	25	19.61	19.69	19.79	19.62	19.60	21.00
10	64QAM	1	49	19.81	19.87	19.99	19.86	19.79	21.00
10	64QAM	25	0	18.74	18.73	18.84	18.54	18.64	20.00
10	64QAM	25	12	18.71	18.70	18.89	18.74	18.63	20.00
10	64QAM	25	25	18.60	18.81	18.87	18.81	18.69	20.00
10	64QAM	50	0	18.69	18.46	18.71	18.51	18.50	20.00
10	256QAM	1	0	16.62	16.59	16.88	16.66	16.55	18.00
10	256QAM	1	25	16.68	16.84	16.94	16.65	16.63	18.00
10	256QAM	1	49	16.52	16.62	16.83	16.55	16.62	18.00
10	256QAM	25	0	16.78	16.84	16.92	16.63	16.72	18.00
10	256QAM	25	12	16.87	16.81	16.99	16.80	16.75	18.00
10	256QAM	25	25	16.68	16.74	16.84	16.66	16.58	18.00
10	256QAM	50	0	16.76	16.75	16.94	16.65	16.73	18.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.83	21.80	22.01	21.82	21.86	23.00
5	QPSK	1	12	21.68	21.73	21.79	21.61	21.65	23.00
5	QPSK	1	24	21.64	21.67	21.83	21.62	21.58	23.00
5	QPSK	12	0	20.93	20.95	20.97	20.88	20.88	22.00
5	QPSK	12	7	20.73	20.65	20.90	20.66	20.60	22.00
5	QPSK	12	13	20.69	20.71	20.93	20.70	20.67	22.00
5	QPSK	25	0	20.67	20.76	20.99	20.78	20.74	22.00
5	16QAM	1	0	20.69	20.75	20.94	20.61	20.67	22.00
5	16QAM	1	12	20.73	20.71	20.89	20.72	20.63	22.00
5	16QAM	1	24	20.79	20.78	21.02	20.80	20.80	22.00
5	16QAM	12	0	19.75	19.80	19.87	19.66	19.66	21.00
5	16QAM	12	7	19.70	19.71	19.90	19.67	19.80	21.00
5	16QAM	12	13	19.62	19.79	19.82	19.60	19.51	21.00
5	16QAM	25	0	19.77	19.66	19.93	19.62	19.56	21.00
5	64QAM	1	0	19.75	19.79	19.96	19.68	19.72	21.00
5	64QAM	1	12	19.56	19.69	19.80	19.62	19.61	21.00
5	64QAM	1	24	19.72	19.76	19.90	19.79	19.74	21.00



5	64QAM	12	0	18.80	18.78	18.82	18.61	18.72	20.00
5	64QAM	12	7	18.72	18.81	18.88	18.70	18.65	20.00
5	64QAM	12	13	18.60	18.74	18.88	18.76	18.65	20.00
5	64QAM	25	0	18.69	18.53	18.75	18.44	18.41	20.00
5	256QAM	1	0	16.65	16.68	16.84	16.67	16.53	18.00
5	256QAM	1	12	16.68	16.80	16.89	16.59	16.76	18.00
5	256QAM	1	24	16.56	16.68	16.85	16.48	16.70	18.00
5	256QAM	12	0	16.81	16.81	16.98	16.65	16.75	18.00
5	256QAM	12	7	16.88	16.75	17.00	16.81	16.66	18.00
5	256QAM	12	13	16.68	16.71	16.83	16.65	16.59	18.00
5	256QAM	25	0	16.75	16.75	16.96	16.64	16.73	18.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 4_Full Power】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.84	24.81	24.89	24.82	24.77	26.00
20	QPSK	1	49	24.47	24.48	24.61	24.41	24.45	26.00
20	QPSK	1	99	24.52	24.54	24.72	24.60	24.50	26.00
20	QPSK	50	0	23.85	23.82	23.87	23.81	23.69	25.00
20	QPSK	50	24	23.60	23.55	23.70	23.61	23.45	25.00
20	QPSK	50	50	23.62	23.53	23.71	23.61	23.49	25.00
20	QPSK	100	0	23.63	23.69	23.79	23.58	23.54	25.00
20	16QAM	1	0	23.66	23.70	23.85	23.73	23.70	25.00
20	16QAM	1	49	23.68	23.56	23.77	23.62	23.63	25.00
20	16QAM	1	99	23.66	23.65	23.76	23.58	23.60	25.00
20	16QAM	50	0	22.53	22.55	22.69	22.61	22.50	24.00
20	16QAM	50	24	22.69	22.71	22.85	22.65	22.67	24.00
20	16QAM	50	50	22.62	22.69	22.81	22.72	22.59	24.00
20	16QAM	100	0	22.58	22.67	22.77	22.65	22.54	24.00
20	64QAM	1	0	22.71	22.75	22.90	22.76	22.74	24.00
20	64QAM	1	49	22.65	22.68	22.77	22.57	22.52	24.00
20	64QAM	1	99	22.75	22.63	22.84	22.70	22.59	24.00
20	64QAM	50	0	21.78	21.77	21.87	21.75	21.64	23.00
20	64QAM	50	24	21.71	21.65	21.82	21.71	21.67	23.00
20	64QAM	50	50	21.83	21.80	21.91	21.82	21.77	23.00
20	64QAM	100	0	21.73	21.66	21.83	21.66	21.64	23.00
20	256QAM	1	0	19.73	19.78	19.91	19.76	19.75	21.00
20	256QAM	1	49	19.63	19.66	19.79	19.59	19.55	21.00
20	256QAM	1	99	19.67	19.70	19.85	19.76	19.74	21.00
20	256QAM	50	0	19.78	19.68	19.83	19.65	19.68	21.00
20	256QAM	50	24	19.70	19.66	19.82	19.65	19.68	21.00
20	256QAM	50	50	19.68	19.65	19.85	19.73	19.62	21.00
20	256QAM	100	0	19.58	19.58	19.69	19.51	19.58	21.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.80	24.73	24.85	24.79	24.70	26.00
15	QPSK	1	37	24.33	24.35	24.46	24.27	24.36	26.00
15	QPSK	1	74	24.46	24.45	24.67	24.46	24.41	26.00
15	QPSK	36	0	23.83	23.79	23.73	23.79	23.68	25.00
15	QPSK	36	20	23.52	23.46	23.68	23.48	23.34	25.00
15	QPSK	36	39	23.59	23.51	23.70	23.51	23.39	25.00
15	QPSK	75	0	23.49	23.61	23.74	23.43	23.40	25.00
15	16QAM	1	0	23.62	23.68	23.74	23.68	23.60	25.00
15	16QAM	1	37	23.56	23.51	23.68	23.52	23.57	25.00
15	16QAM	1	74	23.63	23.52	23.67	23.53	23.45	25.00
15	16QAM	36	0	22.42	22.44	22.66	22.54	22.37	24.00
15	16QAM	36	20	22.54	22.59	22.80	22.54	22.56	24.00
15	16QAM	36	39	22.54	22.60	22.80	22.59	22.50	24.00
15	16QAM	75	0	22.47	22.53	22.67	22.57	22.51	24.00
15	64QAM	1	0	22.57	22.67	22.77	22.65	22.72	24.00
15	64QAM	1	37	22.54	22.57	22.72	22.49	22.43	24.00
15	64QAM	1	74	22.60	22.55	22.80	22.57	22.46	24.00
15	64QAM	36	0	21.77	21.67	21.77	21.70	21.50	23.00
15	64QAM	36	20	21.63	21.56	21.69	21.63	21.57	23.00
15	64QAM	36	39	21.79	21.72	21.83	21.72	21.63	23.00
15	64QAM	75	0	21.66	21.60	21.68	21.57	21.54	23.00
15	256QAM	1	0	19.62	19.70	19.86	19.67	19.61	21.00
15	256QAM	1	37	19.52	19.60	19.72	19.46	19.49	21.00
15	256QAM	1	74	19.57	19.65	19.84	19.69	19.72	21.00



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15	256QAM	36	0	19.64	19.54	19.69	19.62	19.65	21.00
15	256QAM	36	20	19.58	19.62	19.70	19.59	19.54	21.00
15	256QAM	36	39	19.61	19.62	19.79	19.65	19.53	21.00
15	256QAM	75	0	19.43	19.51	19.66	19.38	19.51	21.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.78	24.73	24.74	24.75	24.72	26.00
10	QPSK	1	25	24.42	24.40	24.52	24.28	24.40	26.00
10	QPSK	1	49	24.37	24.50	24.63	24.56	24.47	26.00
10	QPSK	25	0	23.82	23.78	23.83	23.76	23.61	25.00
10	QPSK	25	12	23.56	23.53	23.67	23.54	23.33	25.00
10	QPSK	25	25	23.60	23.45	23.57	23.56	23.38	25.00
10	QPSK	50	0	23.57	23.57	23.73	23.50	23.48	25.00
10	16QAM	1	0	23.64	23.69	23.82	23.69	23.68	25.00
10	16QAM	1	25	23.61	23.45	23.71	23.51	23.61	25.00
10	16QAM	1	49	23.55	23.58	23.72	23.47	23.48	25.00
10	16QAM	25	0	22.48	22.42	22.55	22.59	22.47	24.00
10	16QAM	25	12	22.56	22.63	22.80	22.52	22.58	24.00
10	16QAM	25	25	22.58	22.62	22.68	22.67	22.49	24.00
10	16QAM	50	0	22.49	22.66	22.62	22.60	22.47	24.00
10	64QAM	1	0	22.58	22.72	22.86	22.72	22.64	24.00
10	64QAM	1	25	22.60	22.57	22.63	22.51	22.50	24.00
10	64QAM	1	49	22.62	22.48	22.83	22.61	22.55	24.00
10	64QAM	25	0	21.71	21.65	21.84	21.71	21.53	23.00
10	64QAM	25	12	21.68	21.58	21.75	21.70	21.62	23.00
10	64QAM	25	25	21.82	21.73	21.80	21.80	21.64	23.00
10	64QAM	50	0	21.70	21.55	21.76	21.62	21.62	23.00
10	256QAM	1	0	19.62	19.69	19.80	19.62	19.61	21.00
10	256QAM	1	25	19.59	19.56	19.69	19.46	19.42	21.00
10	256QAM	1	49	19.64	19.61	19.79	19.66	19.71	21.00
10	256QAM	25	0	19.68	19.66	19.81	19.55	19.59	21.00
10	256QAM	25	12	19.58	19.64	19.68	19.59	19.66	21.00
10	256QAM	25	25	19.56	19.63	19.80	19.66	19.52	21.00
10	256QAM	50	0	19.44	19.53	19.66	19.49	19.47	21.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	24.79	24.77	24.88	24.81	24.72	26.00
5	QPSK	1	12	24.40	24.46	24.58	24.39	24.35	26.00
5	QPSK	1	24	24.50	24.41	24.71	24.56	24.42	26.00
5	QPSK	12	0	23.76	23.70	23.76	23.74	23.62	25.00
5	QPSK	12	7	23.56	23.51	23.68	23.55	23.41	25.00
5	QPSK	12	13	23.53	23.45	23.57	23.50	23.36	25.00
5	QPSK	25	0	23.54	23.63	23.65	23.55	23.52	25.00
5	16QAM	1	0	23.56	23.67	23.81	23.71	23.57	25.00
5	16QAM	1	12	23.63	23.53	23.65	23.61	23.61	25.00
5	16QAM	1	24	23.57	23.58	23.62	23.44	23.51	25.00
5	16QAM	12	0	22.43	22.41	22.55	22.56	22.38	24.00
5	16QAM	12	7	22.62	22.64	22.77	22.62	22.63	24.00
5	16QAM	12	13	22.48	22.58	22.75	22.64	22.45	24.00
5	16QAM	25	0	22.44	22.60	22.66	22.61	22.46	24.00
5	64QAM	1	0	22.65	22.67	22.75	22.71	22.65	24.00
5	64QAM	1	12	22.62	22.57	22.70	22.52	22.47	24.00
5	64QAM	1	24	22.67	22.59	22.71	22.68	22.55	24.00
5	64QAM	12	0	21.71	21.73	21.85	21.72	21.50	23.00
5	64QAM	12	7	21.69	21.58	21.75	21.67	21.63	23.00
5	64QAM	12	13	21.82	21.79	21.83	21.67	21.67	23.00
5	64QAM	25	0	21.65	21.63	21.73	21.57	21.53	23.00
5	256QAM	1	0	19.58	19.68	19.79	19.67	19.64	21.00
5	256QAM	1	12	19.57	19.62	19.72	19.45	19.46	21.00
5	256QAM	1	24	19.56	19.59	19.81	19.71	19.70	21.00
5	256QAM	12	0	19.71	19.57	19.78	19.63	19.57	21.00
5	256QAM	12	7	19.58	19.56	19.79	19.63	19.61	21.00
5	256QAM	12	13	19.59	19.61	19.76	19.63	19.54	21.00
5	256QAM	25	0	19.55	19.52	19.56	19.43	19.46	21.00



【LTE Band 41_FCC (2496~2690MHz)_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	23.00
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.92	21.95	22.05	21.89	21.88	23.00
20	QPSK	1	49	21.75	21.77	21.94	21.72	21.73	23.00
20	QPSK	1	99	21.71	21.81	21.92	21.71	21.60	23.00
20	QPSK	50	0	21.02	21.06	21.09	20.96	20.92	22.00
20	QPSK	50	24	20.77	20.80	21.02	20.79	20.75	22.00
20	QPSK	50	50	20.81	20.81	21.02	20.82	20.76	22.00
20	QPSK	100	0	20.81	20.84	21.07	20.90	20.83	22.00
20	16QAM	1	0	20.82	20.84	21.04	20.76	20.78	22.00
20	16QAM	1	49	20.77	20.79	20.97	20.77	20.74	22.00
20	16QAM	1	99	20.91	20.88	21.07	20.87	20.84	22.00
20	16QAM	50	0	19.82	19.83	19.98	19.74	19.78	21.00
20	16QAM	50	24	19.83	19.80	20.01	19.79	19.83	21.00
20	16QAM	50	50	19.66	19.80	19.90	19.73	19.62	21.00
20	16QAM	100	0	19.82	19.80	19.97	19.70	19.70	21.00
20	64QAM	1	0	19.85	19.92	20.05	19.78	19.83	21.00
20	64QAM	1	49	19.70	19.74	19.88	19.68	19.64	21.00
20	64QAM	1	99	19.83	19.90	20.04	19.87	19.83	21.00
20	64QAM	50	0	18.81	18.81	18.94	18.66	18.77	20.00
20	64QAM	50	24	18.76	18.83	18.93	18.77	18.67	20.00
20	64QAM	50	50	18.74	18.83	18.98	18.82	18.74	20.00
20	64QAM	100	0	18.70	18.60	18.83	18.57	18.54	20.00
20	256QAM	1	0	16.67	16.71	16.91	16.77	16.65	18.00
20	256QAM	1	49	16.80	16.85	16.96	16.73	16.78	18.00
20	256QAM	1	99	16.66	16.71	16.87	16.61	16.73	18.00
20	256QAM	50	0	16.87	16.92	17.04	16.77	16.79	18.00
20	256QAM	50	24	16.90	16.87	17.05	16.83	16.79	18.00
20	256QAM	50	50	16.79	16.83	16.98	16.76	16.73	18.00
20	256QAM	100	0	16.83	16.84	17.02	16.76	16.85	18.00
Channel				39725	40173	40620	41068	41515	23.00
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.78	21.91	22.03	21.79	21.79	23.00
15	QPSK	1	37	21.65	21.71	21.84	21.64	21.68	23.00
15	QPSK	1	74	21.61	21.79	21.82	21.63	21.54	23.00
15	QPSK	36	0	20.91	21.01	20.95	20.86	20.78	22.00
15	QPSK	36	20	20.73	20.68	20.88	20.67	20.63	22.00
15	QPSK	36	39	20.78	20.77	20.98	20.68	20.73	22.00
15	QPSK	75	0	20.78	20.81	21.03	20.84	20.75	22.00
15	16QAM	1	0	20.77	20.81	21.00	20.62	20.71	22.00
15	16QAM	1	37	20.67	20.74	20.84	20.65	20.61	22.00
15	16QAM	1	74	20.81	20.76	20.96	20.77	20.78	22.00
15	16QAM	36	0	19.69	19.72	19.89	19.61	19.67	21.00
15	16QAM	36	20	19.76	19.72	20.00	19.71	19.69	21.00
15	16QAM	36	39	19.60	19.66	19.79	19.68	19.60	21.00
15	16QAM	75	0	19.73	19.76	19.92	19.60	19.60	21.00
15	64QAM	1	0	19.81	19.80	19.94	19.69	19.80	21.00
15	64QAM	1	37	19.60	19.59	19.87	19.64	19.57	21.00
15	64QAM	1	74	19.74	19.84	19.92	19.85	19.80	21.00
15	64QAM	36	0	18.77	18.72	18.83	18.63	18.64	20.00
15	64QAM	36	20	18.69	18.79	18.82	18.73	18.59	20.00
15	64QAM	36	39	18.59	18.77	18.89	18.74	18.70	20.00
15	64QAM	75	0	18.60	18.56	18.70	18.52	18.40	20.00
15	256QAM	1	0	16.57	16.57	16.81	16.72	16.59	18.00
15	256QAM	1	37	16.71	16.84	16.86	16.70	16.74	18.00
15	256QAM	1	74	16.52	16.70	16.82	16.48	16.68	18.00
15	256QAM	36	0	16.78	16.89	16.96	16.67	16.72	18.00
15	256QAM	36	20	16.87	16.78	16.93	16.80	16.64	18.00
15	256QAM	36	39	16.75	16.80	16.85	16.72	16.64	18.00
15	256QAM	75	0	16.82	16.83	17.00	16.71	16.82	18.00
Channel				39700	40160	40620	41080	41540	23.00
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.87	21.90	21.92	21.84	21.81	23.00
10	QPSK	1	25	21.66	21.75	21.91	21.70	21.61	23.00
10	QPSK	1	49	21.57	21.79	21.84	21.59	21.52	23.00
10	QPSK	25	0	20.99	21.01	21.04	20.92	20.91	22.00
10	QPSK	25	12	20.68	20.77	20.89	20.71	20.67	22.00
10	QPSK	25	25	20.67	20.69	20.91	20.80	20.66	22.00
10	QPSK	50	0	20.76	20.82	20.95	20.83	20.74	22.00
10	16QAM	1	0	20.68	20.82	20.96	20.68	20.76	22.00
10	16QAM	1	25	20.64	20.78	20.84	20.68	20.62	22.00



10	16QAM	1	49	20.77	20.75	21.03	20.84	20.69	22.00
10	16QAM	25	0	19.77	19.76	19.90	19.66	19.77	21.00
10	16QAM	25	12	19.72	19.71	19.96	19.71	19.71	21.00
10	16QAM	25	25	19.63	19.66	19.87	19.66	19.54	21.00
10	16QAM	50	0	19.78	19.67	19.82	19.61	19.60	21.00
10	64QAM	1	0	19.72	19.88	19.95	19.76	19.70	21.00
10	64QAM	1	25	19.61	19.69	19.79	19.62	19.60	21.00
10	64QAM	1	49	19.81	19.87	19.99	19.86	19.79	21.00
10	64QAM	25	0	18.74	18.73	18.84	18.54	18.64	20.00
10	64QAM	25	12	18.71	18.70	18.89	18.74	18.63	20.00
10	64QAM	25	25	18.60	18.81	18.87	18.81	18.69	20.00
10	64QAM	50	0	18.69	18.46	18.71	18.51	18.50	20.00
10	256QAM	1	0	16.62	16.59	16.88	16.66	16.55	18.00
10	256QAM	1	25	16.68	16.84	16.94	16.65	16.63	18.00
10	256QAM	1	49	16.52	16.62	16.83	16.55	16.62	18.00
10	256QAM	25	0	16.78	16.84	16.92	16.63	16.72	18.00
10	256QAM	25	12	16.87	16.81	16.99	16.80	16.75	18.00
10	256QAM	25	25	16.68	16.74	16.84	16.66	16.58	18.00
10	256QAM	50	0	16.76	16.75	16.94	16.65	16.73	18.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.83	21.80	22.01	21.82	21.86	23.00
5	QPSK	1	12	21.68	21.73	21.79	21.61	21.65	23.00
5	QPSK	1	24	21.64	21.67	21.83	21.62	21.58	23.00
5	QPSK	12	0	20.93	20.95	20.97	20.88	20.88	22.00
5	QPSK	12	7	20.73	20.65	20.90	20.66	20.60	22.00
5	QPSK	12	13	20.69	20.71	20.93	20.70	20.67	22.00
5	QPSK	25	0	20.67	20.76	20.99	20.78	20.74	22.00
5	16QAM	1	0	20.69	20.75	20.94	20.61	20.67	22.00
5	16QAM	1	12	20.73	20.71	20.89	20.72	20.63	22.00
5	16QAM	1	24	20.79	20.78	21.02	20.80	20.80	22.00
5	16QAM	12	0	19.75	19.80	19.87	19.66	19.66	21.00
5	16QAM	12	7	19.70	19.71	19.90	19.67	19.80	21.00
5	16QAM	12	13	19.62	19.79	19.82	19.60	19.51	21.00
5	16QAM	25	0	19.77	19.66	19.93	19.62	19.56	21.00
5	64QAM	1	0	19.75	19.79	19.96	19.68	19.72	21.00
5	64QAM	1	12	19.56	19.69	19.80	19.62	19.61	21.00
5	64QAM	1	24	19.72	19.76	19.90	19.79	19.74	21.00
5	64QAM	12	0	18.80	18.78	18.82	18.61	18.72	20.00
5	64QAM	12	7	18.72	18.81	18.88	18.70	18.65	20.00
5	64QAM	12	13	18.60	18.74	18.88	18.76	18.65	20.00
5	64QAM	25	0	18.69	18.53	18.75	18.44	18.41	20.00
5	256QAM	1	0	16.65	16.68	16.84	16.67	16.53	18.00
5	256QAM	1	12	16.68	16.80	16.89	16.59	16.76	18.00
5	256QAM	1	24	16.56	16.68	16.85	16.48	16.70	18.00
5	256QAM	12	0	16.81	16.81	16.98	16.65	16.75	18.00
5	256QAM	12	7	16.88	16.75	17.00	16.81	16.66	18.00
5	256QAM	12	13	16.68	16.71	16.83	16.65	16.59	18.00
5	256QAM	25	0	16.75	16.75	16.96	16.64	16.73	18.00

【LTE Band 41__FCC (2496~2690MHz)_Ant 4_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.92	21.95	22.05	21.89	21.88	22.90
20	QPSK	1	49	21.75	21.77	21.94	21.72	21.73	22.90
20	QPSK	1	99	21.71	21.81	21.92	21.71	21.60	22.90
20	QPSK	50	0	21.02	21.06	21.09	20.96	20.92	21.90
20	QPSK	50	24	20.77	20.80	21.02	20.79	20.75	21.90
20	QPSK	50	50	20.81	20.81	21.02	20.82	20.76	21.90
20	QPSK	100	0	20.81	20.84	21.07	20.90	20.83	21.90
20	16QAM	1	0	20.82	20.84	21.04	20.76	20.78	21.90
20	16QAM	1	49	20.77	20.79	20.97	20.77	20.74	21.90
20	16QAM	1	99	20.91	20.88	21.07	20.87	20.84	21.90
20	16QAM	50	0	19.82	19.83	19.98	19.74	19.78	20.90
20	16QAM	50	24	19.83	19.80	20.01	19.79	19.83	20.90
20	16QAM	50	50	19.66	19.80	19.90	19.73	19.62	20.90
20	16QAM	100	0	19.82	19.80	19.97	19.70	19.70	20.90
20	64QAM	1	0	19.85	19.92	20.05	19.78	19.83	20.90
20	64QAM	1	49	19.70	19.74	19.88	19.68	19.64	20.90



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20	64QAM	1	99	19.83	19.90	20.04	19.87	19.83	20.90
20	64QAM	50	0	18.81	18.81	18.94	18.66	18.77	19.90
20	64QAM	50	24	18.76	18.83	18.93	18.77	18.67	19.90
20	64QAM	50	50	18.74	18.83	18.98	18.82	18.74	19.90
20	64QAM	100	0	18.70	18.60	18.83	18.57	18.54	19.90
20	256QAM	1	0	16.67	16.71	16.91	16.77	16.65	17.90
20	256QAM	1	49	16.80	16.85	16.96	16.73	16.78	17.90
20	256QAM	1	99	16.66	16.71	16.87	16.61	16.73	17.90
20	256QAM	50	0	16.87	16.92	17.04	16.77	16.79	17.90
20	256QAM	50	24	16.90	16.87	17.05	16.83	16.79	17.90
20	256QAM	50	50	16.79	16.83	16.98	16.76	16.73	17.90
20	256QAM	100	0	16.83	16.84	17.02	16.76	16.85	17.90
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.78	21.91	22.03	21.79	21.79	22.90
15	QPSK	1	37	21.65	21.71	21.84	21.64	21.68	22.90
15	QPSK	1	74	21.61	21.79	21.82	21.63	21.54	22.90
15	QPSK	36	0	20.91	21.01	20.95	20.86	20.78	21.90
15	QPSK	36	20	20.73	20.68	20.88	20.67	20.63	21.90
15	QPSK	36	39	20.78	20.77	20.98	20.68	20.73	21.90
15	QPSK	75	0	20.78	20.81	21.03	20.84	20.75	21.90
15	16QAM	1	0	20.77	20.81	21.00	20.62	20.71	21.90
15	16QAM	1	37	20.67	20.74	20.84	20.65	20.61	21.90
15	16QAM	1	74	20.81	20.76	20.96	20.77	20.78	21.90
15	16QAM	36	0	19.69	19.72	19.89	19.61	19.67	20.90
15	16QAM	36	20	19.76	19.72	20.00	19.71	19.69	20.90
15	16QAM	36	39	19.60	19.66	19.79	19.68	19.60	20.90
15	16QAM	75	0	19.73	19.76	19.92	19.60	19.60	20.90
15	64QAM	1	0	19.81	19.80	19.94	19.69	19.80	20.90
15	64QAM	1	37	19.60	19.59	19.87	19.64	19.57	20.90
15	64QAM	1	74	19.74	19.84	19.92	19.85	19.80	20.90
15	64QAM	36	0	18.77	18.72	18.83	18.63	18.64	19.90
15	64QAM	36	20	18.69	18.79	18.82	18.73	18.59	19.90
15	64QAM	36	39	18.59	18.77	18.89	18.74	18.70	19.90
15	64QAM	75	0	18.60	18.56	18.70	18.52	18.40	19.90
15	256QAM	1	0	16.57	16.57	16.81	16.72	16.59	17.90
15	256QAM	1	37	16.71	16.84	16.86	16.70	16.74	17.90
15	256QAM	1	74	16.52	16.70	16.82	16.48	16.68	17.90
15	256QAM	36	0	16.78	16.89	16.96	16.67	16.72	17.90
15	256QAM	36	20	16.87	16.78	16.93	16.80	16.64	17.90
15	256QAM	36	39	16.75	16.80	16.85	16.72	16.64	17.90
15	256QAM	75	0	16.82	16.83	17.00	16.71	16.82	17.90
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.87	21.90	21.92	21.84	21.81	22.90
10	QPSK	1	25	21.66	21.75	21.91	21.70	21.61	22.90
10	QPSK	1	49	21.57	21.79	21.84	21.59	21.52	22.90
10	QPSK	25	0	20.99	21.01	21.04	20.92	20.91	21.90
10	QPSK	25	12	20.68	20.77	20.89	20.71	20.67	21.90
10	QPSK	25	25	20.67	20.69	20.91	20.80	20.66	21.90
10	QPSK	50	0	20.76	20.82	20.95	20.83	20.74	21.90
10	16QAM	1	0	20.68	20.82	20.96	20.68	20.76	21.90
10	16QAM	1	25	20.64	20.78	20.84	20.68	20.62	21.90
10	16QAM	1	49	20.77	20.75	21.03	20.84	20.69	21.90
10	16QAM	25	0	19.77	19.76	19.90	19.66	19.77	20.90
10	16QAM	25	12	19.72	19.71	19.96	19.71	19.71	20.90
10	16QAM	25	25	19.63	19.66	19.87	19.66	19.54	20.90
10	16QAM	50	0	19.78	19.67	19.82	19.61	19.60	20.90
10	64QAM	1	0	19.72	19.88	19.95	19.76	19.70	20.90
10	64QAM	1	25	19.61	19.69	19.79	19.62	19.60	20.90
10	64QAM	1	49	19.81	19.87	19.99	19.86	19.79	20.90
10	64QAM	25	0	18.74	18.73	18.84	18.54	18.64	19.90
10	64QAM	25	12	18.71	18.70	18.89	18.74	18.63	19.90
10	64QAM	25	25	18.60	18.81	18.87	18.81	18.69	19.90
10	64QAM	50	0	18.69	18.46	18.71	18.51	18.50	19.90
10	256QAM	1	0	16.62	16.59	16.88	16.66	16.55	17.90
10	256QAM	1	25	16.68	16.84	16.94	16.65	16.63	17.90
10	256QAM	1	49	16.52	16.62	16.83	16.55	16.62	17.90
10	256QAM	25	0	16.78	16.84	16.92	16.63	16.72	17.90
10	256QAM	25	12	16.87	16.81	16.99	16.80	16.75	17.90
10	256QAM	25	25	16.68	16.74	16.84	16.66	16.58	17.90
10	256QAM	50	0	16.76	16.75	16.94	16.65	16.73	17.90
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.83	21.80	22.01	21.82	21.86	22.90

5	QPSK	1	12	21.68	21.73	21.79	21.61	21.65	22.90
5	QPSK	1	24	21.64	21.67	21.83	21.62	21.58	22.90
5	QPSK	12	0	20.93	20.95	20.97	20.88	20.88	21.90
5	QPSK	12	7	20.73	20.65	20.90	20.66	20.60	21.90
5	QPSK	12	13	20.69	20.71	20.93	20.70	20.67	21.90
5	QPSK	25	0	20.67	20.76	20.99	20.78	20.74	21.90
5	16QAM	1	0	20.69	20.75	20.94	20.61	20.67	21.90
5	16QAM	1	12	20.73	20.71	20.89	20.72	20.63	21.90
5	16QAM	1	24	20.79	20.78	21.02	20.80	20.80	21.90
5	16QAM	12	0	19.75	19.80	19.87	19.66	19.66	20.90
5	16QAM	12	7	19.70	19.71	19.90	19.67	19.80	20.90
5	16QAM	12	13	19.62	19.79	19.82	19.60	19.51	20.90
5	16QAM	25	0	19.77	19.66	19.93	19.62	19.56	20.90
5	64QAM	1	0	19.75	19.79	19.96	19.68	19.72	20.90
5	64QAM	1	12	19.56	19.69	19.80	19.62	19.61	20.90
5	64QAM	1	24	19.72	19.76	19.90	19.79	19.74	20.90
5	64QAM	12	0	18.80	18.78	18.82	18.61	18.72	19.90
5	64QAM	12	7	18.72	18.81	18.88	18.70	18.65	19.90
5	64QAM	12	13	18.60	18.74	18.88	18.76	18.65	19.90
5	64QAM	25	0	18.69	18.53	18.75	18.44	18.41	19.90
5	256QAM	1	0	16.65	16.68	16.84	16.67	16.53	17.90
5	256QAM	1	12	16.68	16.80	16.89	16.59	16.76	17.90
5	256QAM	1	24	16.56	16.68	16.85	16.48	16.70	17.90
5	256QAM	12	0	16.81	16.81	16.98	16.65	16.75	17.90
5	256QAM	12	7	16.88	16.75	17.00	16.81	16.66	17.90
5	256QAM	12	13	16.68	16.71	16.83	16.65	16.59	17.90
5	256QAM	25	0	16.75	16.75	16.96	16.64	16.73	17.90

【LTE Band 41_FCC (2496~2690MHz)_Ant 4_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.92	21.95	22.05	21.89	21.88	23.00
20	QPSK	1	49	21.75	21.77	21.94	21.72	21.73	23.00
20	QPSK	1	99	21.71	21.81	21.92	21.71	21.60	23.00
20	QPSK	50	0	21.02	21.06	21.09	20.96	20.92	22.00
20	QPSK	50	24	20.77	20.80	21.02	20.79	20.75	22.00
20	QPSK	50	50	20.81	20.81	21.02	20.82	20.76	22.00
20	QPSK	100	0	20.81	20.84	21.07	20.90	20.83	22.00
20	16QAM	1	0	20.82	20.84	21.04	20.76	20.78	22.00
20	16QAM	1	49	20.77	20.79	20.97	20.77	20.74	22.00
20	16QAM	1	99	20.91	20.88	21.07	20.87	20.84	22.00
20	16QAM	50	0	19.82	19.83	19.98	19.74	19.78	21.00
20	16QAM	50	24	19.83	19.80	20.01	19.79	19.83	21.00
20	16QAM	50	50	19.66	19.80	19.90	19.73	19.62	21.00
20	16QAM	100	0	19.82	19.80	19.97	19.70	19.70	21.00
20	64QAM	1	0	19.85	19.92	20.05	19.78	19.83	21.00
20	64QAM	1	49	19.70	19.74	19.88	19.68	19.64	21.00
20	64QAM	1	99	19.83	19.90	20.04	19.87	19.83	21.00
20	64QAM	50	0	18.81	18.81	18.94	18.66	18.77	20.00
20	64QAM	50	24	18.76	18.83	18.93	18.77	18.67	20.00
20	64QAM	50	50	18.74	18.83	18.98	18.82	18.74	20.00
20	64QAM	100	0	18.70	18.60	18.83	18.57	18.54	20.00
20	256QAM	1	0	16.67	16.71	16.91	16.77	16.65	18.00
20	256QAM	1	49	16.80	16.85	16.96	16.73	16.78	18.00
20	256QAM	1	99	16.66	16.71	16.87	16.61	16.73	18.00
20	256QAM	50	0	16.87	16.92	17.04	16.77	16.79	18.00
20	256QAM	50	24	16.90	16.87	17.05	16.83	16.79	18.00
20	256QAM	50	50	16.79	16.83	16.98	16.76	16.73	18.00
20	256QAM	100	0	16.83	16.84	17.02	16.76	16.85	18.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.78	21.91	22.03	21.79	21.79	23.00
15	QPSK	1	37	21.65	21.71	21.84	21.64	21.68	23.00
15	QPSK	1	74	21.61	21.79	21.82	21.63	21.54	23.00
15	QPSK	36	0	20.91	21.01	20.95	20.86	20.78	22.00
15	QPSK	36	20	20.73	20.68	20.88	20.67	20.63	22.00
15	QPSK	36	39	20.78	20.77	20.98	20.68	20.73	22.00
15	QPSK	75	0	20.78	20.81	21.03	20.84	20.75	22.00
15	16QAM	1	0	20.77	20.81	21.00	20.62	20.71	22.00



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15	16QAM	1	37	20.67	20.74	20.84	20.65	20.61	22.00
15	16QAM	1	74	20.81	20.76	20.96	20.77	20.78	22.00
15	16QAM	36	0	19.69	19.72	19.89	19.61	19.67	21.00
15	16QAM	36	20	19.76	19.72	20.00	19.71	19.69	21.00
15	16QAM	36	39	19.60	19.66	19.79	19.68	19.60	21.00
15	16QAM	75	0	19.73	19.76	19.92	19.60	19.60	21.00
15	64QAM	1	0	19.81	19.80	19.94	19.69	19.80	21.00
15	64QAM	1	37	19.60	19.59	19.87	19.64	19.57	21.00
15	64QAM	1	74	19.74	19.84	19.92	19.85	19.80	21.00
15	64QAM	36	0	18.77	18.72	18.83	18.63	18.64	20.00
15	64QAM	36	20	18.69	18.79	18.82	18.73	18.59	20.00
15	64QAM	36	39	18.59	18.77	18.89	18.74	18.70	20.00
15	64QAM	75	0	18.60	18.56	18.70	18.52	18.40	20.00
15	256QAM	1	0	16.57	16.57	16.81	16.72	16.59	18.00
15	256QAM	1	37	16.71	16.84	16.86	16.70	16.74	18.00
15	256QAM	1	74	16.52	16.70	16.82	16.48	16.68	18.00
15	256QAM	36	0	16.78	16.89	16.96	16.67	16.72	18.00
15	256QAM	36	20	16.87	16.78	16.93	16.80	16.64	18.00
15	256QAM	36	39	16.75	16.80	16.85	16.72	16.64	18.00
15	256QAM	75	0	16.82	16.83	17.00	16.71	16.82	18.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.87	21.90	21.92	21.84	21.81	23.00
10	QPSK	1	25	21.66	21.75	21.91	21.70	21.61	23.00
10	QPSK	1	49	21.57	21.79	21.84	21.59	21.52	23.00
10	QPSK	25	0	20.99	21.01	21.04	20.92	20.91	22.00
10	QPSK	25	12	20.68	20.77	20.89	20.71	20.67	22.00
10	QPSK	25	25	20.67	20.69	20.91	20.80	20.66	22.00
10	QPSK	50	0	20.76	20.82	20.95	20.83	20.74	22.00
10	16QAM	1	0	20.68	20.82	20.96	20.68	20.76	22.00
10	16QAM	1	25	20.64	20.78	20.84	20.68	20.62	22.00
10	16QAM	1	49	20.77	20.75	21.03	20.84	20.69	22.00
10	16QAM	25	0	19.77	19.76	19.90	19.66	19.77	21.00
10	16QAM	25	12	19.72	19.71	19.96	19.71	19.71	21.00
10	16QAM	25	25	19.63	19.66	19.87	19.66	19.54	21.00
10	16QAM	50	0	19.78	19.67	19.82	19.61	19.60	21.00
10	64QAM	1	0	19.72	19.88	19.95	19.76	19.70	21.00
10	64QAM	1	25	19.61	19.69	19.79	19.62	19.60	21.00
10	64QAM	1	49	19.81	19.87	19.99	19.86	19.79	21.00
10	64QAM	25	0	18.74	18.73	18.84	18.54	18.64	20.00
10	64QAM	25	12	18.71	18.70	18.89	18.74	18.63	20.00
10	64QAM	25	25	18.60	18.81	18.87	18.81	18.69	20.00
10	64QAM	50	0	18.69	18.46	18.71	18.51	18.50	20.00
10	256QAM	1	0	16.62	16.59	16.88	16.66	16.55	18.00
10	256QAM	1	25	16.68	16.84	16.94	16.65	16.63	18.00
10	256QAM	1	49	16.52	16.62	16.83	16.55	16.62	18.00
10	256QAM	25	0	16.78	16.84	16.92	16.63	16.72	18.00
10	256QAM	25	12	16.87	16.81	16.99	16.80	16.75	18.00
10	256QAM	25	25	16.68	16.74	16.84	16.66	16.58	18.00
10	256QAM	50	0	16.76	16.75	16.94	16.65	16.73	18.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.83	21.80	22.01	21.82	21.86	23.00
5	QPSK	1	12	21.68	21.73	21.79	21.61	21.65	23.00
5	QPSK	1	24	21.64	21.67	21.83	21.62	21.58	23.00
5	QPSK	12	0	20.93	20.95	20.97	20.88	20.88	22.00
5	QPSK	12	7	20.73	20.65	20.90	20.66	20.60	22.00
5	QPSK	12	13	20.69	20.71	20.93	20.70	20.67	22.00
5	QPSK	25	0	20.67	20.76	20.99	20.78	20.74	22.00
5	16QAM	1	0	20.69	20.75	20.94	20.61	20.67	22.00
5	16QAM	1	12	20.73	20.71	20.89	20.72	20.63	22.00
5	16QAM	1	24	20.79	20.78	21.02	20.80	20.80	22.00
5	16QAM	12	0	19.75	19.80	19.87	19.66	19.66	21.00
5	16QAM	12	7	19.70	19.71	19.90	19.67	19.80	21.00
5	16QAM	12	13	19.62	19.79	19.82	19.60	19.51	21.00
5	16QAM	25	0	19.77	19.66	19.93	19.62	19.56	21.00
5	64QAM	1	0	19.75	19.79	19.96	19.68	19.72	21.00
5	64QAM	1	12	19.56	19.69	19.80	19.62	19.61	21.00
5	64QAM	1	24	19.72	19.76	19.90	19.79	19.74	21.00
5	64QAM	12	0	18.80	18.78	18.82	18.61	18.72	20.00
5	64QAM	12	7	18.72	18.81	18.88	18.70	18.65	20.00
5	64QAM	12	13	18.60	18.74	18.88	18.76	18.65	20.00
5	64QAM	25	0	18.69	18.53	18.75	18.44	18.41	20.00
5	256QAM	1	0	16.65	16.68	16.84	16.67	16.53	18.00
5	256QAM	1	12	16.68	16.80	16.89	16.59	16.76	18.00
5	256QAM	1	24	16.56	16.68	16.85	16.48	16.70	18.00



5	256QAM	12	0	16.81	16.81	16.98	16.65	16.75	18.00
5	256QAM	12	7	16.88	16.75	17.00	16.81	16.66	18.00
5	256QAM	12	13	16.68	16.71	16.83	16.65	16.59	18.00
5	256QAM	25	0	16.75	16.75	16.96	16.64	16.73	18.00

【LTE Band 41_FCC (2496~2690MHz)_Ant 4_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	14.81	14.83	14.85	14.82	14.80	16.30
20	QPSK	1	49	14.75	14.79	14.79	14.69	14.68	16.30
20	QPSK	1	99	14.77	14.73	14.71	14.76	14.73	16.30
20	QPSK	50	0	14.70	14.71	14.81	14.68	14.66	16.30
20	QPSK	50	24	14.61	14.60	14.62	14.63	14.61	16.30
20	QPSK	50	50	14.63	14.63	14.61	14.62	14.63	16.30
20	QPSK	100	0	14.73	14.76	14.75	14.74	14.66	16.30
20	16QAM	1	0	14.75	14.73	14.81	14.75	14.73	16.30
20	16QAM	1	49	14.76	14.77	14.81	14.73	14.73	16.30
20	16QAM	1	99	14.73	14.72	14.71	14.71	14.75	16.30
20	16QAM	50	0	14.70	14.71	14.77	14.77	14.68	16.30
20	16QAM	50	24	14.70	14.79	14.76	14.73	14.66	16.30
20	16QAM	50	50	14.73	14.72	14.72	14.73	14.72	16.30
20	16QAM	100	0	14.75	14.80	14.75	14.76	14.66	16.30
20	64QAM	1	0	14.69	14.76	14.77	14.77	14.73	16.30
20	64QAM	1	49	14.70	14.72	14.73	14.76	14.71	16.30
20	64QAM	1	99	14.71	14.76	14.72	14.73	14.72	16.30
20	64QAM	50	0	14.71	14.71	14.79	14.74	14.67	16.30
20	64QAM	50	24	14.73	14.69	14.76	14.73	14.73	16.30
20	64QAM	50	50	14.77	14.76	14.72	14.68	14.74	16.30
20	64QAM	100	0	14.73	14.70	14.76	14.74	14.72	16.30
20	256QAM	1	0	14.78	14.73	14.72	14.75	14.73	16.30
20	256QAM	1	49	14.77	14.75	14.80	14.69	14.72	16.30
20	256QAM	1	99	14.71	14.76	14.73	14.71	14.74	16.30
20	256QAM	50	0	14.69	14.69	14.71	14.72	14.74	16.30
20	256QAM	50	24	14.76	14.70	14.72	14.71	14.72	16.30
20	256QAM	50	50	14.75	14.79	14.79	14.72	14.75	16.30
20	256QAM	100	0	14.74	14.75	14.73	14.71	14.72	16.30
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	14.68	14.68	14.77	14.72	14.69	16.30
15	QPSK	1	37	14.60	14.71	14.76	14.64	14.61	16.30
15	QPSK	1	74	14.65	14.59	14.61	14.64	14.68	16.30
15	QPSK	36	0	14.69	14.64	14.67	14.56	14.57	16.30
15	QPSK	36	20	14.70	14.59	14.59	14.63	14.61	16.30
15	QPSK	36	39	14.62	14.58	14.70	14.71	14.63	16.30
15	QPSK	75	0	14.64	14.67	14.68	14.63	14.55	16.30
15	16QAM	1	0	14.68	14.67	14.77	14.66	14.68	16.30
15	16QAM	1	37	14.72	14.66	14.73	14.71	14.61	16.30
15	16QAM	1	74	14.61	14.59	14.61	14.66	14.70	16.30
15	16QAM	36	0	14.58	14.57	14.75	14.66	14.57	16.30
15	16QAM	36	20	14.55	14.77	14.68	14.66	14.62	16.30
15	16QAM	36	39	14.71	14.64	14.58	14.71	14.68	16.30
15	16QAM	75	0	14.69	14.79	14.69	14.73	14.51	16.30
15	64QAM	1	0	14.61	14.62	14.75	14.72	14.61	16.30
15	64QAM	1	37	14.58	14.68	14.60	14.62	14.64	16.30
15	64QAM	1	74	14.62	14.63	14.63	14.64	14.58	16.30
15	64QAM	36	0	14.59	14.59	14.67	14.63	14.60	16.30
15	64QAM	36	20	14.65	14.58	14.63	14.58	14.71	16.30
15	64QAM	36	39	14.72	14.64	14.65	14.57	14.67	16.30
15	64QAM	75	0	14.65	14.56	14.66	14.67	14.60	16.30
15	256QAM	1	0	14.67	14.71	14.67	14.67	14.62	16.30
15	256QAM	1	37	14.67	14.63	14.67	14.54	14.71	16.30
15	256QAM	1	74	14.68	14.62	14.58	14.67	14.72	16.30
15	256QAM	36	0	14.65	14.65	14.60	14.70	14.73	16.30
15	256QAM	36	20	14.69	14.64	14.65	14.59	14.67	16.30
15	256QAM	36	39	14.73	14.72	14.65	14.59	14.67	16.30
15	256QAM	75	0	14.63	14.71	14.71	14.67	14.59	16.30
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	14.76	14.80	14.81	14.79	14.69	16.30

10	QPSK	1	25	14.70	14.75	14.74	14.67	14.61	16.30
10	QPSK	1	49	14.72	14.63	14.65	14.66	14.59	16.30
10	QPSK	25	0	14.68	14.65	14.69	14.59	14.57	16.30
10	QPSK	25	12	14.71	14.67	14.71	14.63	14.61	16.30
10	QPSK	25	25	14.55	14.55	14.69	14.67	14.72	16.30
10	QPSK	50	0	14.62	14.71	14.61	14.70	14.64	16.30
10	16QAM	1	0	14.60	14.61	14.77	14.66	14.61	16.30
10	16QAM	1	25	14.71	14.63	14.75	14.71	14.69	16.30
10	16QAM	1	49	14.65	14.65	14.69	14.67	14.71	16.30
10	16QAM	25	0	14.58	14.67	14.68	14.71	14.58	16.30
10	16QAM	25	12	14.58	14.74	14.66	14.58	14.54	16.30
10	16QAM	25	25	14.59	14.69	14.61	14.66	14.65	16.30
10	16QAM	50	0	14.69	14.67	14.73	14.70	14.54	16.30
10	64QAM	1	0	14.59	14.73	14.65	14.75	14.59	16.30
10	64QAM	1	25	14.66	14.68	14.67	14.63	14.58	16.30
10	64QAM	1	49	14.67	14.71	14.71	14.66	14.68	16.30
10	64QAM	25	0	14.67	14.57	14.69	14.64	14.64	16.30
10	64QAM	25	12	14.64	14.64	14.63	14.59	14.72	16.30
10	64QAM	25	25	14.73	14.73	14.70	14.62	14.65	16.30
10	64QAM	50	0	14.63	14.57	14.65	14.68	14.69	16.30
10	256QAM	1	0	14.73	14.62	14.68	14.69	14.66	16.30
10	256QAM	1	25	14.62	14.74	14.79	14.59	14.63	16.30
10	256QAM	1	49	14.63	14.62	14.61	14.65	14.72	16.30
10	256QAM	25	0	14.61	14.59	14.65	14.63	14.63	16.30
10	256QAM	25	12	14.73	14.66	14.61	14.58	14.71	16.30
10	256QAM	25	25	14.65	14.78	14.71	14.65	14.66	16.30
10	256QAM	50	0	14.61	14.72	14.62	14.60	14.63	16.30
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	14.71	14.79	14.81	14.75	14.75	16.30
5	QPSK	1	12	14.62	14.73	14.66	14.55	14.63	16.30
5	QPSK	1	24	14.62	14.61	14.64	14.68	14.70	16.30
5	QPSK	12	0	14.66	14.60	14.67	14.55	14.63	16.30
5	QPSK	12	7	14.66	14.67	14.66	14.69	14.68	16.30
5	QPSK	12	13	14.64	14.64	14.63	14.73	14.65	16.30
5	QPSK	25	0	14.65	14.63	14.59	14.72	14.64	16.30
5	16QAM	1	0	14.71	14.62	14.70	14.70	14.66	16.30
5	16QAM	1	12	14.62	14.69	14.79	14.66	14.68	16.30
5	16QAM	1	24	14.60	14.63	14.69	14.67	14.73	16.30
5	16QAM	12	0	14.61	14.57	14.69	14.70	14.56	16.30
5	16QAM	12	7	14.67	14.65	14.65	14.61	14.62	16.30
5	16QAM	12	13	14.67	14.69	14.59	14.59	14.67	16.30
5	16QAM	25	0	14.68	14.75	14.72	14.74	14.64	16.30
5	64QAM	1	0	14.64	14.62	14.65	14.69	14.68	16.30
5	64QAM	1	12	14.61	14.61	14.67	14.69	14.60	16.30
5	64QAM	1	24	14.60	14.73	14.67	14.68	14.66	16.30
5	64QAM	12	0	14.61	14.64	14.66	14.63	14.53	16.30
5	64QAM	12	7	14.63	14.57	14.68	14.64	14.59	16.30
5	64QAM	12	13	14.72	14.65	14.69	14.54	14.68	16.30
5	64QAM	25	0	14.59	14.64	14.69	14.70	14.63	16.30
5	256QAM	1	0	14.68	14.71	14.64	14.62	14.67	16.30
5	256QAM	1	12	14.74	14.69	14.68	14.57	14.67	16.30
5	256QAM	1	24	14.60	14.68	14.67	14.69	14.70	16.30
5	256QAM	12	0	14.68	14.55	14.59	14.57	14.69	16.30
5	256QAM	12	7	14.63	14.62	14.62	14.65	14.61	16.30
5	256QAM	12	13	14.63	14.74	14.74	14.69	14.67	16.30
5	256QAM	25	0	14.65	14.66	14.59	14.62	14.58	16.30

【LTE Band 41_FCC (2496~2690MHz)_Ant 4_DSI 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.92	21.95	22.05	21.89	21.88	22.70
20	QPSK	1	49	21.75	21.77	21.94	21.72	21.73	22.70
20	QPSK	1	99	21.71	21.81	21.92	21.71	21.60	22.70
20	QPSK	50	0	21.02	21.06	21.09	20.96	20.92	21.70
20	QPSK	50	24	20.77	20.80	21.02	20.79	20.75	21.70
20	QPSK	50	50	20.81	20.81	21.02	20.82	20.76	21.70
20	QPSK	100	0	20.81	20.84	21.07	20.90	20.83	21.70
20	16QAM	1	0	20.82	20.84	21.04	20.76	20.78	21.70



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20	16QAM	1	49	20.77	20.79	20.97	20.77	20.74	21.70
20	16QAM	1	99	20.91	20.88	21.07	20.87	20.84	21.70
20	16QAM	50	0	19.82	19.83	19.98	19.74	19.78	20.70
20	16QAM	50	24	19.83	19.80	20.01	19.79	19.83	20.70
20	16QAM	50	50	19.66	19.80	19.90	19.73	19.62	20.70
20	16QAM	100	0	19.82	19.80	19.97	19.70	19.70	20.70
20	64QAM	1	0	19.85	19.92	20.05	19.78	19.83	20.70
20	64QAM	1	49	19.70	19.74	19.88	19.68	19.64	20.70
20	64QAM	1	99	19.83	19.90	20.04	19.87	19.83	20.70
20	64QAM	50	0	18.81	18.81	18.94	18.66	18.77	19.70
20	64QAM	50	24	18.76	18.83	18.93	18.77	18.67	19.70
20	64QAM	50	50	18.74	18.83	18.98	18.82	18.74	19.70
20	64QAM	100	0	18.70	18.60	18.83	18.57	18.54	19.70
20	256QAM	1	0	16.67	16.71	16.91	16.77	16.65	17.70
20	256QAM	1	49	16.80	16.85	16.96	16.73	16.78	17.70
20	256QAM	1	99	16.66	16.71	16.87	16.61	16.73	17.70
20	256QAM	50	0	16.87	16.92	17.04	16.77	16.79	17.70
20	256QAM	50	24	16.90	16.87	17.05	16.83	16.79	17.70
20	256QAM	50	50	16.79	16.83	16.98	16.76	16.73	17.70
20	256QAM	100	0	16.83	16.84	17.02	16.76	16.85	17.70
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.78	21.91	22.03	21.79	21.79	22.70
15	QPSK	1	37	21.65	21.71	21.84	21.64	21.68	22.70
15	QPSK	1	74	21.61	21.79	21.82	21.63	21.54	22.70
15	QPSK	36	0	20.91	21.01	20.95	20.86	20.78	21.70
15	QPSK	36	20	20.73	20.68	20.88	20.67	20.63	21.70
15	QPSK	36	39	20.78	20.77	20.98	20.68	20.73	21.70
15	QPSK	75	0	20.78	20.81	21.03	20.84	20.75	21.70
15	16QAM	1	0	20.77	20.81	21.00	20.62	20.71	21.70
15	16QAM	1	37	20.67	20.74	20.84	20.65	20.61	21.70
15	16QAM	1	74	20.81	20.76	20.96	20.77	20.78	21.70
15	16QAM	36	0	19.69	19.72	19.89	19.61	19.67	20.70
15	16QAM	36	20	19.76	19.72	20.00	19.71	19.69	20.70
15	16QAM	36	39	19.60	19.66	19.79	19.68	19.60	20.70
15	16QAM	75	0	19.73	19.76	19.92	19.60	19.60	20.70
15	64QAM	1	0	19.81	19.80	19.94	19.69	19.80	20.70
15	64QAM	1	37	19.60	19.59	19.87	19.64	19.57	20.70
15	64QAM	1	74	19.74	19.84	19.92	19.85	19.80	20.70
15	64QAM	36	0	18.77	18.72	18.83	18.63	18.64	19.70
15	64QAM	36	20	18.69	18.79	18.82	18.73	18.59	19.70
15	64QAM	36	39	18.59	18.77	18.89	18.74	18.70	19.70
15	64QAM	75	0	18.60	18.56	18.70	18.52	18.40	19.70
15	256QAM	1	0	16.57	16.57	16.81	16.72	16.59	17.70
15	256QAM	1	37	16.71	16.84	16.86	16.70	16.74	17.70
15	256QAM	1	74	16.52	16.70	16.82	16.48	16.68	17.70
15	256QAM	36	0	16.78	16.89	16.96	16.67	16.72	17.70
15	256QAM	36	20	16.87	16.78	16.93	16.80	16.64	17.70
15	256QAM	36	39	16.75	16.80	16.85	16.72	16.64	17.70
15	256QAM	75	0	16.82	16.83	17.00	16.71	16.82	17.70
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.87	21.90	21.92	21.84	21.81	22.70
10	QPSK	1	25	21.66	21.75	21.91	21.70	21.61	22.70
10	QPSK	1	49	21.57	21.79	21.84	21.59	21.52	22.70
10	QPSK	25	0	20.99	21.01	21.04	20.92	20.91	21.70
10	QPSK	25	12	20.68	20.77	20.89	20.71	20.67	21.70
10	QPSK	25	25	20.67	20.69	20.91	20.80	20.66	21.70
10	QPSK	50	0	20.76	20.82	20.95	20.83	20.74	21.70
10	16QAM	1	0	20.68	20.82	20.96	20.68	20.76	21.70
10	16QAM	1	25	20.64	20.78	20.84	20.68	20.62	21.70
10	16QAM	1	49	20.77	20.75	21.03	20.84	20.69	21.70
10	16QAM	25	0	19.77	19.76	19.90	19.66	19.77	20.70
10	16QAM	25	12	19.72	19.71	19.96	19.71	19.71	20.70
10	16QAM	25	25	19.63	19.66	19.87	19.66	19.54	20.70
10	16QAM	50	0	19.78	19.67	19.82	19.61	19.60	20.70
10	64QAM	1	0	19.72	19.88	19.95	19.76	19.70	20.70
10	64QAM	1	25	19.61	19.69	19.79	19.62	19.60	20.70
10	64QAM	1	49	19.81	19.87	19.99	19.86	19.79	20.70
10	64QAM	25	0	18.74	18.73	18.84	18.54	18.64	19.70
10	64QAM	25	12	18.71	18.70	18.89	18.74	18.63	19.70
10	64QAM	25	25	18.60	18.81	18.87	18.81	18.69	19.70
10	64QAM	50	0	18.69	18.46	18.71	18.51	18.50	19.70
10	256QAM	1	0	16.62	16.59	16.88	16.66	16.55	17.70
10	256QAM	1	25	16.68	16.84	16.94	16.65	16.63	17.70
10	256QAM	1	49	16.52	16.62	16.83	16.55	16.62	17.70



10	256QAM	25	0	16.78	16.84	16.92	16.63	16.72	17.70
10	256QAM	25	12	16.87	16.81	16.99	16.80	16.75	17.70
10	256QAM	25	25	16.68	16.74	16.84	16.66	16.58	17.70
10	256QAM	50	0	16.76	16.75	16.94	16.65	16.73	17.70
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.83	21.80	22.01	21.82	21.86	22.70
5	QPSK	1	12	21.68	21.73	21.79	21.61	21.65	22.70
5	QPSK	1	24	21.64	21.67	21.83	21.62	21.58	22.70
5	QPSK	12	0	20.93	20.95	20.97	20.88	20.88	21.70
5	QPSK	12	7	20.73	20.65	20.90	20.66	20.60	21.70
5	QPSK	12	13	20.69	20.71	20.93	20.70	20.67	21.70
5	QPSK	25	0	20.67	20.76	20.99	20.78	20.74	21.70
5	16QAM	1	0	20.69	20.75	20.94	20.61	20.67	21.70
5	16QAM	1	12	20.73	20.71	20.89	20.72	20.63	21.70
5	16QAM	1	24	20.79	20.78	21.02	20.80	20.80	21.70
5	16QAM	12	0	19.75	19.80	19.87	19.66	19.66	20.70
5	16QAM	12	7	19.70	19.71	19.90	19.67	19.80	20.70
5	16QAM	12	13	19.62	19.79	19.82	19.60	19.51	20.70
5	16QAM	25	0	19.77	19.66	19.93	19.62	19.56	20.70
5	64QAM	1	0	19.75	19.79	19.96	19.68	19.72	20.70
5	64QAM	1	12	19.56	19.69	19.80	19.62	19.61	20.70
5	64QAM	1	24	19.72	19.76	19.90	19.79	19.74	20.70
5	64QAM	12	0	18.80	18.78	18.82	18.61	18.72	19.70
5	64QAM	12	7	18.72	18.81	18.88	18.70	18.65	19.70
5	64QAM	12	13	18.60	18.74	18.88	18.76	18.65	19.70
5	64QAM	25	0	18.69	18.53	18.75	18.44	18.41	19.70
5	256QAM	1	0	16.65	16.68	16.84	16.67	16.53	17.70
5	256QAM	1	12	16.68	16.80	16.89	16.59	16.76	17.70
5	256QAM	1	24	16.56	16.68	16.85	16.48	16.70	17.70
5	256QAM	12	0	16.81	16.81	16.98	16.65	16.75	17.70
5	256QAM	12	7	16.88	16.75	17.00	16.81	16.66	17.70
5	256QAM	12	13	16.68	16.71	16.83	16.65	16.59	17.70
5	256QAM	25	0	16.75	16.75	16.96	16.64	16.73	17.70

【LTE Band 41_FCC (2496~2690MHz)_Ant 4_DSI 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	21.92	21.95	22.05	21.89	21.88	23.00
20	QPSK	1	49	21.75	21.77	21.94	21.72	21.73	23.00
20	QPSK	1	99	21.71	21.81	21.92	21.71	21.60	23.00
20	QPSK	50	0	21.02	21.06	21.09	20.96	20.92	22.00
20	QPSK	50	24	20.77	20.80	21.02	20.79	20.75	22.00
20	QPSK	50	50	20.81	20.81	21.02	20.82	20.76	22.00
20	QPSK	100	0	20.81	20.84	21.07	20.90	20.83	22.00
20	16QAM	1	0	20.82	20.84	21.04	20.76	20.78	22.00
20	16QAM	1	49	20.77	20.79	20.97	20.77	20.74	22.00
20	16QAM	1	99	20.91	20.88	21.07	20.87	20.84	22.00
20	16QAM	50	0	19.82	19.83	19.98	19.74	19.78	21.00
20	16QAM	50	24	19.83	19.80	20.01	19.79	19.83	21.00
20	16QAM	50	50	19.66	19.80	19.90	19.73	19.62	21.00
20	16QAM	100	0	19.82	19.80	19.97	19.70	19.70	21.00
20	64QAM	1	0	19.85	19.92	20.05	19.78	19.83	21.00
20	64QAM	1	49	19.70	19.74	19.88	19.68	19.64	21.00
20	64QAM	1	99	19.83	19.90	20.04	19.87	19.83	21.00
20	64QAM	50	0	18.81	18.81	18.94	18.66	18.77	20.00
20	64QAM	50	24	18.76	18.83	18.93	18.77	18.67	20.00
20	64QAM	50	50	18.74	18.83	18.98	18.82	18.74	20.00
20	64QAM	100	0	18.70	18.60	18.83	18.57	18.54	20.00
20	256QAM	1	0	16.67	16.71	16.91	16.77	16.65	18.00
20	256QAM	1	49	16.80	16.85	16.96	16.73	16.78	18.00
20	256QAM	1	99	16.66	16.71	16.87	16.61	16.73	18.00
20	256QAM	50	0	16.87	16.92	17.04	16.77	16.79	18.00
20	256QAM	50	24	16.90	16.87	17.05	16.83	16.79	18.00
20	256QAM	50	50	16.79	16.83	16.98	16.76	16.73	18.00
20	256QAM	100	0	16.83	16.84	17.02	16.76	16.85	18.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.78	21.91	22.03	21.79	21.79	23.00



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15	QPSK	1	37	21.65	21.71	21.84	21.64	21.68	23.00
15	QPSK	1	74	21.61	21.79	21.82	21.63	21.54	23.00
15	QPSK	36	0	20.91	21.01	20.95	20.86	20.78	22.00
15	QPSK	36	20	20.73	20.68	20.88	20.67	20.63	22.00
15	QPSK	36	39	20.78	20.77	20.98	20.68	20.73	22.00
15	QPSK	75	0	20.78	20.81	21.03	20.84	20.75	22.00
15	16QAM	1	0	20.77	20.81	21.00	20.62	20.71	22.00
15	16QAM	1	37	20.67	20.74	20.84	20.65	20.61	22.00
15	16QAM	1	74	20.81	20.76	20.96	20.77	20.78	22.00
15	16QAM	36	0	19.69	19.72	19.89	19.61	19.67	21.00
15	16QAM	36	20	19.76	19.72	20.00	19.71	19.69	21.00
15	16QAM	36	39	19.60	19.66	19.79	19.68	19.60	21.00
15	16QAM	75	0	19.73	19.76	19.92	19.60	19.60	21.00
15	64QAM	1	0	19.81	19.80	19.94	19.69	19.80	21.00
15	64QAM	1	37	19.60	19.59	19.87	19.64	19.57	21.00
15	64QAM	1	74	19.74	19.84	19.92	19.85	19.80	21.00
15	64QAM	36	0	18.77	18.72	18.83	18.63	18.64	20.00
15	64QAM	36	20	18.69	18.79	18.82	18.73	18.59	20.00
15	64QAM	36	39	18.59	18.77	18.89	18.74	18.70	20.00
15	64QAM	75	0	18.60	18.56	18.70	18.52	18.40	20.00
15	256QAM	1	0	16.57	16.57	16.81	16.72	16.59	18.00
15	256QAM	1	37	16.71	16.84	16.86	16.70	16.74	18.00
15	256QAM	1	74	16.52	16.70	16.82	16.48	16.68	18.00
15	256QAM	36	0	16.78	16.89	16.96	16.67	16.72	18.00
15	256QAM	36	20	16.87	16.78	16.93	16.80	16.64	18.00
15	256QAM	36	39	16.75	16.80	16.85	16.72	16.64	18.00
15	256QAM	75	0	16.82	16.83	17.00	16.71	16.82	18.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.87	21.90	21.92	21.84	21.81	23.00
10	QPSK	1	25	21.66	21.75	21.91	21.70	21.61	23.00
10	QPSK	1	49	21.57	21.79	21.84	21.59	21.52	23.00
10	QPSK	25	0	20.99	21.01	21.04	20.92	20.91	22.00
10	QPSK	25	12	20.68	20.77	20.89	20.71	20.67	22.00
10	QPSK	25	25	20.67	20.69	20.91	20.80	20.66	22.00
10	QPSK	50	0	20.76	20.82	20.95	20.83	20.74	22.00
10	16QAM	1	0	20.68	20.82	20.96	20.68	20.76	22.00
10	16QAM	1	25	20.64	20.78	20.84	20.68	20.62	22.00
10	16QAM	1	49	20.77	20.75	21.03	20.84	20.69	22.00
10	16QAM	25	0	19.77	19.76	19.90	19.66	19.77	21.00
10	16QAM	25	12	19.72	19.71	19.96	19.71	19.71	21.00
10	16QAM	25	25	19.63	19.66	19.87	19.66	19.54	21.00
10	16QAM	50	0	19.78	19.67	19.82	19.61	19.60	21.00
10	64QAM	1	0	19.72	19.88	19.95	19.76	19.70	21.00
10	64QAM	1	25	19.61	19.69	19.79	19.62	19.60	21.00
10	64QAM	1	49	19.81	19.87	19.99	19.86	19.79	21.00
10	64QAM	25	0	18.74	18.73	18.84	18.54	18.64	20.00
10	64QAM	25	12	18.71	18.70	18.89	18.74	18.63	20.00
10	64QAM	25	25	18.60	18.81	18.87	18.81	18.69	20.00
10	64QAM	50	0	18.69	18.46	18.71	18.51	18.50	20.00
10	256QAM	1	0	16.62	16.59	16.88	16.66	16.55	18.00
10	256QAM	1	25	16.68	16.84	16.94	16.65	16.63	18.00
10	256QAM	1	49	16.52	16.62	16.83	16.55	16.62	18.00
10	256QAM	25	0	16.78	16.84	16.92	16.63	16.72	18.00
10	256QAM	25	12	16.87	16.81	16.99	16.80	16.75	18.00
10	256QAM	25	25	16.68	16.74	16.84	16.66	16.58	18.00
10	256QAM	50	0	16.76	16.75	16.94	16.65	16.73	18.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	21.83	21.80	22.01	21.82	21.86	23.00
5	QPSK	1	12	21.68	21.73	21.79	21.61	21.65	23.00
5	QPSK	1	24	21.64	21.67	21.83	21.62	21.58	23.00
5	QPSK	12	0	20.93	20.95	20.97	20.88	20.88	22.00
5	QPSK	12	7	20.73	20.65	20.90	20.66	20.60	22.00
5	QPSK	12	13	20.69	20.71	20.93	20.70	20.67	22.00
5	QPSK	25	0	20.67	20.76	20.99	20.78	20.74	22.00
5	16QAM	1	0	20.69	20.75	20.94	20.61	20.67	22.00
5	16QAM	1	12	20.73	20.71	20.89	20.72	20.63	22.00
5	16QAM	1	24	20.79	20.78	21.02	20.80	20.80	22.00
5	16QAM	12	0	19.75	19.80	19.87	19.66	19.66	21.00
5	16QAM	12	7	19.70	19.71	19.90	19.67	19.80	21.00
5	16QAM	12	13	19.62	19.79	19.82	19.60	19.51	21.00
5	16QAM	25	0	19.77	19.66	19.93	19.62	19.56	21.00
5	64QAM	1	0	19.75	19.79	19.96	19.68	19.72	21.00
5	64QAM	1	12	19.56	19.69	19.80	19.62	19.61	21.00
5	64QAM	1	24	19.72	19.76	19.90	19.79	19.74	21.00



5	64QAM	12	0	18.80	18.78	18.82	18.61	18.72	20.00
5	64QAM	12	7	18.72	18.81	18.88	18.70	18.65	20.00
5	64QAM	12	13	18.60	18.74	18.88	18.76	18.65	20.00
5	64QAM	25	0	18.69	18.53	18.75	18.44	18.41	20.00
5	256QAM	1	0	16.65	16.68	16.84	16.67	16.53	18.00
5	256QAM	1	12	16.68	16.80	16.89	16.59	16.76	18.00
5	256QAM	1	24	16.56	16.68	16.85	16.48	16.70	18.00
5	256QAM	12	0	16.81	16.81	16.98	16.65	16.75	18.00
5	256QAM	12	7	16.88	16.75	17.00	16.81	16.66	18.00
5	256QAM	12	13	16.68	16.71	16.83	16.65	16.59	18.00
5	256QAM	25	0	16.75	16.75	16.96	16.64	16.73	18.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 4_DSI 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.84	24.81	24.89	24.82	24.77	26.00
20	QPSK	1	49	24.47	24.48	24.61	24.41	24.45	26.00
20	QPSK	1	99	24.52	24.54	24.72	24.60	24.50	26.00
20	QPSK	50	0	23.85	23.82	23.87	23.81	23.69	25.00
20	QPSK	50	24	23.60	23.55	23.70	23.61	23.45	25.00
20	QPSK	50	50	23.62	23.53	23.71	23.61	23.49	25.00
20	QPSK	100	0	23.63	23.69	23.79	23.58	23.54	25.00
20	16QAM	1	0	23.66	23.70	23.85	23.73	23.70	25.00
20	16QAM	1	49	23.68	23.56	23.77	23.62	23.63	25.00
20	16QAM	1	99	23.66	23.65	23.76	23.58	23.60	25.00
20	16QAM	50	0	22.53	22.55	22.69	22.61	22.50	24.00
20	16QAM	50	24	22.69	22.71	22.85	22.65	22.67	24.00
20	16QAM	50	50	22.62	22.69	22.81	22.72	22.59	24.00
20	16QAM	100	0	22.58	22.67	22.77	22.65	22.54	24.00
20	64QAM	1	0	22.71	22.75	22.90	22.76	22.74	24.00
20	64QAM	1	49	22.65	22.68	22.77	22.57	22.52	24.00
20	64QAM	1	99	22.75	22.63	22.84	22.70	22.59	24.00
20	64QAM	50	0	21.78	21.77	21.87	21.75	21.64	23.00
20	64QAM	50	24	21.71	21.65	21.82	21.71	21.67	23.00
20	64QAM	50	50	21.83	21.80	21.91	21.82	21.77	23.00
20	64QAM	100	0	21.73	21.66	21.83	21.66	21.64	23.00
20	256QAM	1	0	19.73	19.78	19.91	19.76	19.75	21.00
20	256QAM	1	49	19.63	19.66	19.79	19.59	19.55	21.00
20	256QAM	1	99	19.67	19.70	19.85	19.76	19.74	21.00
20	256QAM	50	0	19.78	19.68	19.83	19.65	19.68	21.00
20	256QAM	50	24	19.70	19.66	19.82	19.65	19.68	21.00
20	256QAM	50	50	19.68	19.65	19.85	19.73	19.62	21.00
20	256QAM	100	0	19.58	19.58	19.69	19.51	19.58	21.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.80	24.73	24.85	24.79	24.70	26.00
15	QPSK	1	37	24.33	24.35	24.46	24.27	24.36	26.00
15	QPSK	1	74	24.46	24.45	24.67	24.46	24.41	26.00
15	QPSK	36	0	23.83	23.79	23.73	23.79	23.68	25.00
15	QPSK	36	20	23.52	23.46	23.68	23.48	23.34	25.00
15	QPSK	36	39	23.59	23.51	23.70	23.51	23.39	25.00
15	QPSK	75	0	23.49	23.61	23.74	23.43	23.40	25.00
15	16QAM	1	0	23.62	23.68	23.74	23.68	23.60	25.00
15	16QAM	1	37	23.56	23.51	23.68	23.52	23.57	25.00
15	16QAM	1	74	23.63	23.52	23.67	23.53	23.45	25.00
15	16QAM	36	0	22.42	22.44	22.66	22.54	22.37	24.00
15	16QAM	36	20	22.54	22.59	22.80	22.54	22.56	24.00
15	16QAM	36	39	22.54	22.60	22.80	22.59	22.50	24.00
15	16QAM	75	0	22.47	22.53	22.67	22.57	22.51	24.00
15	64QAM	1	0	22.57	22.67	22.77	22.65	22.72	24.00
15	64QAM	1	37	22.54	22.57	22.72	22.49	22.43	24.00
15	64QAM	1	74	22.60	22.55	22.80	22.57	22.46	24.00
15	64QAM	36	0	21.77	21.67	21.77	21.70	21.50	23.00
15	64QAM	36	20	21.63	21.56	21.69	21.63	21.57	23.00
15	64QAM	36	39	21.79	21.72	21.83	21.72	21.63	23.00
15	64QAM	75	0	21.66	21.60	21.68	21.57	21.54	23.00
15	256QAM	1	0	19.62	19.70	19.86	19.67	19.61	21.00
15	256QAM	1	37	19.52	19.60	19.72	19.46	19.49	21.00
15	256QAM	1	74	19.57	19.65	19.84	19.69	19.72	21.00



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15	256QAM	36	0	19.64	19.54	19.69	19.62	19.65	21.00
15	256QAM	36	20	19.58	19.62	19.70	19.59	19.54	21.00
15	256QAM	36	39	19.61	19.62	19.79	19.65	19.53	21.00
15	256QAM	75	0	19.43	19.51	19.66	19.38	19.51	21.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.78	24.73	24.74	24.75	24.72	26.00
10	QPSK	1	25	24.42	24.40	24.52	24.28	24.40	26.00
10	QPSK	1	49	24.37	24.50	24.63	24.56	24.47	26.00
10	QPSK	25	0	23.82	23.78	23.83	23.76	23.61	25.00
10	QPSK	25	12	23.56	23.53	23.67	23.54	23.33	25.00
10	QPSK	25	25	23.60	23.45	23.57	23.56	23.38	25.00
10	QPSK	50	0	23.57	23.57	23.73	23.50	23.48	25.00
10	16QAM	1	0	23.64	23.69	23.82	23.69	23.68	25.00
10	16QAM	1	25	23.61	23.45	23.71	23.51	23.61	25.00
10	16QAM	1	49	23.55	23.58	23.72	23.47	23.48	25.00
10	16QAM	25	0	22.48	22.42	22.55	22.59	22.47	24.00
10	16QAM	25	12	22.56	22.63	22.80	22.52	22.58	24.00
10	16QAM	25	25	22.58	22.62	22.68	22.67	22.49	24.00
10	16QAM	50	0	22.49	22.66	22.62	22.60	22.47	24.00
10	64QAM	1	0	22.58	22.72	22.86	22.72	22.64	24.00
10	64QAM	1	25	22.60	22.57	22.63	22.51	22.50	24.00
10	64QAM	1	49	22.62	22.48	22.83	22.61	22.55	24.00
10	64QAM	25	0	21.71	21.65	21.84	21.71	21.53	23.00
10	64QAM	25	12	21.68	21.58	21.75	21.70	21.62	23.00
10	64QAM	25	25	21.82	21.73	21.80	21.80	21.64	23.00
10	64QAM	50	0	21.70	21.55	21.76	21.62	21.62	23.00
10	256QAM	1	0	19.62	19.69	19.80	19.62	19.61	21.00
10	256QAM	1	25	19.59	19.56	19.69	19.46	19.42	21.00
10	256QAM	1	49	19.64	19.61	19.79	19.66	19.71	21.00
10	256QAM	25	0	19.68	19.66	19.81	19.55	19.59	21.00
10	256QAM	25	12	19.58	19.64	19.68	19.59	19.66	21.00
10	256QAM	25	25	19.56	19.63	19.80	19.66	19.52	21.00
10	256QAM	50	0	19.44	19.53	19.66	19.49	19.47	21.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	24.79	24.77	24.88	24.81	24.72	26.00
5	QPSK	1	12	24.40	24.46	24.58	24.39	24.35	26.00
5	QPSK	1	24	24.50	24.41	24.71	24.56	24.42	26.00
5	QPSK	12	0	23.76	23.70	23.76	23.74	23.62	25.00
5	QPSK	12	7	23.56	23.51	23.68	23.55	23.41	25.00
5	QPSK	12	13	23.53	23.45	23.57	23.50	23.36	25.00
5	QPSK	25	0	23.54	23.63	23.65	23.55	23.52	25.00
5	16QAM	1	0	23.56	23.67	23.81	23.71	23.57	25.00
5	16QAM	1	12	23.63	23.53	23.65	23.61	23.61	25.00
5	16QAM	1	24	23.57	23.58	23.62	23.44	23.51	25.00
5	16QAM	12	0	22.43	22.41	22.55	22.56	22.38	24.00
5	16QAM	12	7	22.62	22.64	22.77	22.62	22.63	24.00
5	16QAM	12	13	22.48	22.58	22.75	22.64	22.45	24.00
5	16QAM	25	0	22.44	22.60	22.66	22.61	22.46	24.00
5	64QAM	1	0	22.65	22.67	22.75	22.71	22.65	24.00
5	64QAM	1	12	22.62	22.57	22.70	22.52	22.47	24.00
5	64QAM	1	24	22.67	22.59	22.71	22.68	22.55	24.00
5	64QAM	12	0	21.71	21.73	21.85	21.72	21.50	23.00
5	64QAM	12	7	21.69	21.58	21.75	21.67	21.63	23.00
5	64QAM	12	13	21.82	21.79	21.83	21.67	21.67	23.00
5	64QAM	25	0	21.65	21.63	21.73	21.57	21.53	23.00
5	256QAM	1	0	19.58	19.68	19.79	19.67	19.64	21.00
5	256QAM	1	12	19.57	19.62	19.72	19.45	19.46	21.00
5	256QAM	1	24	19.56	19.59	19.81	19.71	19.70	21.00
5	256QAM	12	0	19.71	19.57	19.78	19.63	19.57	21.00
5	256QAM	12	7	19.58	19.56	19.79	19.63	19.61	21.00
5	256QAM	12	13	19.59	19.61	19.76	19.63	19.54	21.00
5	256QAM	25	0	19.55	19.52	19.56	19.43	19.46	21.00



【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 4_DSI 3】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24.50
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.74	23.77	23.79	23.68	23.71	24.50
20	QPSK	1	49	23.44	23.47	23.62	23.41	23.43	24.50
20	QPSK	1	99	23.39	23.52	23.58	23.36	23.49	24.50
20	QPSK	50	0	23.71	23.74	23.75	23.62	23.69	24.50
20	QPSK	50	24	23.37	23.40	23.54	23.29	23.43	24.50
20	QPSK	50	50	23.50	23.52	23.58	23.33	23.41	24.50
20	QPSK	100	0	23.49	23.65	23.69	23.47	23.49	24.50
20	16QAM	1	0	23.57	23.55	23.71	23.51	23.50	24.50
20	16QAM	1	49	23.41	23.39	23.47	23.28	23.37	24.50
20	16QAM	1	99	23.61	23.63	23.70	23.49	23.59	24.50
20	16QAM	50	0	22.53	22.55	22.69	22.61	22.50	24.00
20	16QAM	50	24	22.69	22.71	22.85	22.65	22.67	24.00
20	16QAM	50	50	22.62	22.69	22.81	22.72	22.59	24.00
20	16QAM	100	0	22.58	22.67	22.77	22.65	22.54	24.00
20	64QAM	1	0	22.71	22.75	22.90	22.76	22.74	24.00
20	64QAM	1	49	22.65	22.68	22.77	22.57	22.52	24.00
20	64QAM	1	99	22.75	22.63	22.84	22.70	22.59	24.00
20	64QAM	50	0	21.78	21.77	21.87	21.75	21.64	23.00
20	64QAM	50	24	21.71	21.65	21.82	21.71	21.67	23.00
20	64QAM	50	50	21.83	21.80	21.91	21.82	21.77	23.00
20	64QAM	100	0	21.73	21.66	21.83	21.66	21.64	23.00
20	256QAM	1	0	19.73	19.78	19.91	19.76	19.75	21.00
20	256QAM	1	49	19.63	19.66	19.79	19.59	19.55	21.00
20	256QAM	1	99	19.67	19.70	19.85	19.76	19.74	21.00
20	256QAM	50	0	19.78	19.68	19.83	19.65	19.68	21.00
20	256QAM	50	24	19.70	19.66	19.82	19.65	19.68	21.00
20	256QAM	50	50	19.68	19.65	19.85	19.73	19.62	21.00
20	256QAM	100	0	19.58	19.58	19.69	19.51	19.58	21.00
Channel				39725	40173	40620	41068	41515	24.50
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.61	23.70	23.70	23.66	23.58	24.50
15	QPSK	1	37	23.39	23.37	23.60	23.35	23.29	24.50
15	QPSK	1	74	23.25	23.38	23.55	23.21	23.44	24.50
15	QPSK	36	0	23.62	23.63	23.67	23.55	23.68	24.50
15	QPSK	36	20	23.32	23.38	23.51	23.27	23.42	24.50
15	QPSK	36	39	23.36	23.50	23.56	23.32	23.32	24.50
15	QPSK	75	0	23.45	23.57	23.63	23.38	23.38	24.50
15	16QAM	1	0	23.50	23.51	23.63	23.44	23.39	24.50
15	16QAM	1	37	23.26	23.26	23.44	23.18	23.34	24.50
15	16QAM	1	74	23.55	23.57	23.65	23.45	23.47	24.50
15	16QAM	36	0	22.44	22.51	22.60	22.51	22.46	24.00
15	16QAM	36	20	22.64	22.64	22.75	22.53	22.57	24.00
15	16QAM	36	39	22.55	22.63	22.69	22.64	22.55	24.00
15	16QAM	75	0	22.57	22.60	22.68	22.51	22.45	24.00
15	64QAM	1	0	22.63	22.65	22.75	22.70	22.71	24.00
15	64QAM	1	37	22.52	22.58	22.73	22.54	22.44	24.00
15	64QAM	1	74	22.64	22.56	22.80	22.63	22.54	24.00
15	64QAM	36	0	21.69	21.70	21.79	21.69	21.54	23.00
15	64QAM	36	20	21.62	21.59	21.75	21.67	21.63	23.00
15	64QAM	36	39	21.75	21.71	21.85	21.69	21.73	23.00
15	64QAM	75	0	21.68	21.59	21.77	21.53	21.55	23.00
15	256QAM	1	0	19.60	19.73	19.81	19.66	19.65	21.00
15	256QAM	1	37	19.57	19.65	19.78	19.46	19.43	21.00
15	256QAM	1	74	19.60	19.58	19.73	19.74	19.70	21.00
15	256QAM	36	0	19.67	19.67	19.75	19.62	19.57	21.00
15	256QAM	36	20	19.60	19.59	19.71	19.61	19.55	21.00
15	256QAM	36	39	19.56	19.59	19.72	19.71	19.57	21.00
15	256QAM	75	0	19.47	19.47	19.60	19.38	19.54	21.00
Channel				39700	40160	40620	41080	41540	24.50
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.63	23.69	23.66	23.55	23.60	24.50
10	QPSK	1	25	23.41	23.33	23.48	23.37	23.38	24.50
10	QPSK	1	49	23.30	23.39	23.55	23.24	23.44	24.50
10	QPSK	25	0	23.62	23.67	23.68	23.55	23.55	24.50
10	QPSK	25	12	23.26	23.37	23.50	23.21	23.32	24.50
10	QPSK	25	25	23.36	23.49	23.50	23.27	23.27	24.50
10	QPSK	50	0	23.42	23.61	23.63	23.41	23.39	24.50
10	16QAM	1	0	23.52	23.43	23.69	23.43	23.39	24.50
10	16QAM	1	25	23.38	23.29	23.35	23.26	23.23	24.50



10	16QAM	1	49	23.55	23.51	23.67	23.44	23.47	24.50
10	16QAM	25	0	22.48	22.48	22.61	22.53	22.39	24.00
10	16QAM	25	12	22.59	22.56	22.79	22.60	22.55	24.00
10	16QAM	25	25	22.53	22.65	22.73	22.59	22.51	24.00
10	16QAM	50	0	22.57	22.52	22.64	22.50	22.49	24.00
10	64QAM	1	0	22.62	22.60	22.87	22.73	22.72	24.00
10	64QAM	1	25	22.59	22.63	22.64	22.43	22.44	24.00
10	64QAM	1	49	22.68	22.59	22.71	22.60	22.54	24.00
10	64QAM	25	0	21.64	21.63	21.80	21.70	21.63	23.00
10	64QAM	25	12	21.66	21.63	21.67	21.66	21.61	23.00
10	64QAM	25	25	21.72	21.67	21.84	21.68	21.70	23.00
10	64QAM	50	0	21.64	21.55	21.76	21.54	21.57	23.00
10	256QAM	1	0	19.68	19.72	19.84	19.67	19.64	21.00
10	256QAM	1	25	19.61	19.59	19.69	19.46	19.42	21.00
10	256QAM	1	49	19.59	19.56	19.82	19.71	19.61	21.00
10	256QAM	25	0	19.70	19.62	19.80	19.51	19.62	21.00
10	256QAM	25	12	19.68	19.51	19.75	19.54	19.66	21.00
10	256QAM	25	25	19.64	19.58	19.76	19.70	19.55	21.00
10	256QAM	50	0	19.44	19.57	19.66	19.44	19.47	21.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	23.64	23.73	23.77	23.64	23.62	24.50
5	QPSK	1	12	23.29	23.34	23.61	23.38	23.38	24.50
5	QPSK	1	24	23.35	23.42	23.56	23.34	23.39	24.50
5	QPSK	12	0	23.67	23.63	23.64	23.56	23.61	24.50
5	QPSK	12	7	23.22	23.34	23.52	23.23	23.41	24.50
5	QPSK	12	13	23.36	23.45	23.51	23.26	23.31	24.50
5	QPSK	25	0	23.43	23.58	23.57	23.45	23.47	24.50
5	16QAM	1	0	23.46	23.52	23.57	23.44	23.37	24.50
5	16QAM	1	12	23.37	23.30	23.34	23.27	23.26	24.50
5	16QAM	1	24	23.55	23.59	23.62	23.40	23.50	24.50
5	16QAM	12	0	22.40	22.44	22.57	22.59	22.44	24.00
5	16QAM	12	7	22.60	22.59	22.79	22.52	22.52	24.00
5	16QAM	12	13	22.48	22.62	22.73	22.62	22.50	24.00
5	16QAM	25	0	22.50	22.64	22.72	22.62	22.39	24.00
5	64QAM	1	0	22.58	22.60	22.86	22.68	22.67	24.00
5	64QAM	1	12	22.61	22.57	22.70	22.43	22.50	24.00
5	64QAM	1	24	22.63	22.56	22.81	22.58	22.48	24.00
5	64QAM	12	0	21.71	21.68	21.73	21.65	21.58	23.00
5	64QAM	12	7	21.66	21.59	21.81	21.56	21.54	23.00
5	64QAM	12	13	21.81	21.74	21.84	21.76	21.64	23.00
5	64QAM	25	0	21.59	21.58	21.75	21.55	21.58	23.00
5	256QAM	1	0	19.63	19.77	19.77	19.62	19.61	21.00
5	256QAM	1	12	19.60	19.55	19.75	19.53	19.47	21.00
5	256QAM	1	24	19.64	19.60	19.79	19.67	19.60	21.00
5	256QAM	12	0	19.74	19.54	19.79	19.53	19.58	21.00
5	256QAM	12	7	19.63	19.62	19.76	19.51	19.56	21.00
5	256QAM	12	13	19.56	19.56	19.71	19.67	19.49	21.00
5	256QAM	25	0	19.44	19.47	19.60	19.39	19.47	21.00

【LTE Band 41__FCC (2496~2690MHz)_HPUE_Ant 4_DSI 6】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.84	24.81	24.89	24.82	24.77	25.40
20	QPSK	1	49	24.47	24.48	24.61	24.41	24.45	25.40
20	QPSK	1	99	24.52	24.54	24.72	24.60	24.50	25.40
20	QPSK	50	0	23.85	23.82	23.87	23.81	23.69	24.40
20	QPSK	50	24	23.60	23.55	23.70	23.61	23.45	24.40
20	QPSK	50	50	23.62	23.53	23.71	23.61	23.49	24.40
20	QPSK	100	0	23.63	23.69	23.79	23.58	23.54	24.40
20	16QAM	1	0	23.66	23.70	23.85	23.73	23.70	24.40
20	16QAM	1	49	23.68	23.56	23.77	23.62	23.63	24.40
20	16QAM	1	99	23.66	23.65	23.76	23.58	23.60	24.40
20	16QAM	50	0	22.53	22.55	22.69	22.61	22.50	23.40
20	16QAM	50	24	22.69	22.71	22.85	22.65	22.67	23.40
20	16QAM	50	50	22.62	22.69	22.81	22.72	22.59	23.40
20	16QAM	100	0	22.58	22.67	22.77	22.65	22.54	23.40
20	64QAM	1	0	22.71	22.75	22.90	22.76	22.74	23.40
20	64QAM	1	49	22.65	22.68	22.77	22.57	22.52	23.40



FCC SAR Test Report

Report No. : FA5N1310

20	64QAM	1	99	22.75	22.63	22.84	22.70	22.59	23.40
20	64QAM	50	0	21.78	21.77	21.87	21.75	21.64	22.40
20	64QAM	50	24	21.71	21.65	21.82	21.71	21.67	22.40
20	64QAM	50	50	21.83	21.80	21.91	21.82	21.77	22.40
20	64QAM	100	0	21.73	21.66	21.83	21.66	21.64	22.40
20	256QAM	1	0	19.73	19.78	19.91	19.76	19.75	20.40
20	256QAM	1	49	19.63	19.66	19.79	19.59	19.55	20.40
20	256QAM	1	99	19.67	19.70	19.85	19.76	19.74	20.40
20	256QAM	50	0	19.78	19.68	19.83	19.65	19.68	20.40
20	256QAM	50	24	19.70	19.66	19.82	19.65	19.68	20.40
20	256QAM	50	50	19.68	19.65	19.85	19.73	19.62	20.40
20	256QAM	100	0	19.58	19.58	19.69	19.51	19.58	20.40
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.80	24.73	24.85	24.79	24.70	25.40
15	QPSK	1	37	24.33	24.35	24.46	24.27	24.36	25.40
15	QPSK	1	74	24.46	24.45	24.67	24.46	24.41	25.40
15	QPSK	36	0	23.83	23.79	23.73	23.79	23.68	24.40
15	QPSK	36	20	23.52	23.46	23.68	23.48	23.34	24.40
15	QPSK	36	39	23.59	23.51	23.70	23.51	23.39	24.40
15	QPSK	75	0	23.49	23.61	23.74	23.43	23.40	24.40
15	16QAM	1	0	23.62	23.68	23.74	23.68	23.60	24.40
15	16QAM	1	37	23.56	23.51	23.68	23.52	23.57	24.40
15	16QAM	1	74	23.63	23.52	23.67	23.53	23.45	24.40
15	16QAM	36	0	22.42	22.44	22.66	22.54	22.37	23.40
15	16QAM	36	20	22.54	22.59	22.80	22.54	22.56	23.40
15	16QAM	36	39	22.54	22.60	22.80	22.59	22.50	23.40
15	16QAM	75	0	22.47	22.53	22.67	22.57	22.51	23.40
15	64QAM	1	0	22.57	22.67	22.77	22.65	22.72	23.40
15	64QAM	1	37	22.54	22.57	22.72	22.49	22.43	23.40
15	64QAM	1	74	22.60	22.55	22.80	22.57	22.46	23.40
15	64QAM	36	0	21.77	21.67	21.77	21.70	21.50	22.40
15	64QAM	36	20	21.63	21.56	21.69	21.63	21.57	22.40
15	64QAM	36	39	21.79	21.72	21.83	21.72	21.63	22.40
15	64QAM	75	0	21.66	21.60	21.68	21.57	21.54	22.40
15	256QAM	1	0	19.62	19.70	19.86	19.67	19.61	20.40
15	256QAM	1	37	19.52	19.60	19.72	19.46	19.49	20.40
15	256QAM	1	74	19.57	19.65	19.84	19.69	19.72	20.40
15	256QAM	36	0	19.64	19.54	19.69	19.62	19.65	20.40
15	256QAM	36	20	19.58	19.62	19.70	19.59	19.54	20.40
15	256QAM	36	39	19.61	19.62	19.79	19.65	19.53	20.40
15	256QAM	75	0	19.43	19.51	19.66	19.38	19.51	20.40
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.78	24.73	24.74	24.75	24.72	25.40
10	QPSK	1	25	24.42	24.40	24.52	24.28	24.40	25.40
10	QPSK	1	49	24.37	24.50	24.63	24.56	24.47	25.40
10	QPSK	25	0	23.82	23.78	23.83	23.76	23.61	24.40
10	QPSK	25	12	23.56	23.53	23.67	23.54	23.33	24.40
10	QPSK	25	25	23.60	23.45	23.57	23.56	23.38	24.40
10	QPSK	50	0	23.57	23.57	23.73	23.50	23.48	24.40
10	16QAM	1	0	23.64	23.69	23.82	23.69	23.68	24.40
10	16QAM	1	25	23.61	23.45	23.71	23.51	23.61	24.40
10	16QAM	1	49	23.55	23.58	23.72	23.47	23.48	24.40
10	16QAM	25	0	22.48	22.42	22.55	22.59	22.47	23.40
10	16QAM	25	12	22.56	22.63	22.80	22.52	22.58	23.40
10	16QAM	25	25	22.58	22.62	22.68	22.67	22.49	23.40
10	16QAM	50	0	22.49	22.66	22.62	22.60	22.47	23.40
10	64QAM	1	0	22.58	22.72	22.86	22.72	22.64	23.40
10	64QAM	1	25	22.60	22.57	22.63	22.51	22.50	23.40
10	64QAM	1	49	22.62	22.48	22.83	22.61	22.55	23.40
10	64QAM	25	0	21.71	21.65	21.84	21.71	21.53	22.40
10	64QAM	25	12	21.68	21.58	21.75	21.70	21.62	22.40
10	64QAM	25	25	21.82	21.73	21.80	21.80	21.64	22.40
10	64QAM	50	0	21.70	21.55	21.76	21.62	21.62	22.40
10	256QAM	1	0	19.62	19.69	19.80	19.62	19.61	20.40
10	256QAM	1	25	19.59	19.56	19.69	19.46	19.42	20.40
10	256QAM	1	49	19.64	19.61	19.79	19.66	19.71	20.40
10	256QAM	25	0	19.68	19.66	19.81	19.55	19.59	20.40
10	256QAM	25	12	19.58	19.64	19.68	19.59	19.66	20.40
10	256QAM	25	25	19.56	19.63	19.80	19.66	19.52	20.40
10	256QAM	50	0	19.44	19.53	19.66	19.49	19.47	20.40
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	24.79	24.77	24.88	24.81	24.72	25.40



5	QPSK	1	12	24.40	24.46	24.58	24.39	24.35	25.40
5	QPSK	1	24	24.50	24.41	24.71	24.56	24.42	25.40
5	QPSK	12	0	23.76	23.70	23.76	23.74	23.62	24.40
5	QPSK	12	7	23.56	23.51	23.68	23.55	23.41	24.40
5	QPSK	12	13	23.53	23.45	23.57	23.50	23.36	24.40
5	QPSK	25	0	23.54	23.63	23.65	23.55	23.52	24.40
5	16QAM	1	0	23.56	23.67	23.81	23.71	23.57	24.40
5	16QAM	1	12	23.63	23.53	23.65	23.61	23.61	24.40
5	16QAM	1	24	23.57	23.58	23.62	23.44	23.51	24.40
5	16QAM	12	0	22.43	22.41	22.55	22.56	22.38	23.40
5	16QAM	12	7	22.62	22.64	22.77	22.62	22.63	23.40
5	16QAM	12	13	22.48	22.58	22.75	22.64	22.45	23.40
5	16QAM	25	0	22.44	22.60	22.66	22.61	22.46	23.40
5	64QAM	1	0	22.65	22.67	22.75	22.71	22.65	23.40
5	64QAM	1	12	22.62	22.57	22.70	22.52	22.47	23.40
5	64QAM	1	24	22.67	22.59	22.71	22.68	22.55	23.40
5	64QAM	12	0	21.71	21.73	21.85	21.72	21.50	22.40
5	64QAM	12	7	21.69	21.58	21.75	21.67	21.63	22.40
5	64QAM	12	13	21.82	21.79	21.83	21.67	21.67	22.40
5	64QAM	25	0	21.65	21.63	21.73	21.57	21.53	22.40
5	256QAM	1	0	19.58	19.68	19.79	19.67	19.64	20.40
5	256QAM	1	12	19.57	19.62	19.72	19.45	19.46	20.40
5	256QAM	1	24	19.56	19.59	19.81	19.71	19.70	20.40
5	256QAM	12	0	19.71	19.57	19.78	19.63	19.57	20.40
5	256QAM	12	7	19.58	19.56	19.79	19.63	19.61	20.40
5	256QAM	12	13	19.59	19.61	19.76	19.63	19.54	20.40
5	256QAM	25	0	19.55	19.52	19.56	19.43	19.46	20.40

【LTE Band 41_FCC (2496~2690MHz)_HPUE_Ant 4_DSI 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	17.90
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	16.53	16.55	16.57	16.52	16.51	17.90
20	QPSK	1	49	16.38	16.41	16.52	16.42	16.39	17.90
20	QPSK	1	99	16.49	16.43	16.45	16.43	16.48	17.90
20	QPSK	50	0	16.42	16.51	16.56	16.46	16.39	17.90
20	QPSK	50	24	16.41	16.50	16.54	16.48	16.38	17.90
20	QPSK	50	50	16.48	16.42	16.49	16.49	16.44	17.90
20	QPSK	100	0	16.38	16.45	16.43	16.39	16.37	17.90
20	16QAM	1	0	16.45	16.50	16.52	16.47	16.46	17.90
20	16QAM	1	49	16.46	16.45	16.52	16.48	16.45	17.90
20	16QAM	1	99	16.43	16.47	16.45	16.41	16.42	17.90
20	16QAM	50	0	16.43	16.43	16.51	16.49	16.37	17.90
20	16QAM	50	24	16.49	16.50	16.44	16.46	16.37	17.90
20	16QAM	50	50	16.47	16.46	16.50	16.45	16.48	17.90
20	16QAM	100	0	16.40	16.49	16.53	16.48	16.46	17.90
20	64QAM	1	0	16.46	16.51	16.42	16.44	16.36	17.90
20	64QAM	1	49	16.50	16.50	16.50	16.40	16.41	17.90
20	64QAM	1	99	16.47	16.40	16.46	16.38	16.38	17.90
20	64QAM	50	0	16.40	16.46	16.50	16.48	16.39	17.90
20	64QAM	50	24	16.40	16.51	16.47	16.41	16.47	17.90
20	64QAM	50	50	16.47	16.50	16.50	16.48	16.44	17.90
20	64QAM	100	0	16.39	16.48	16.45	16.40	16.47	17.90
20	256QAM	1	0	16.46	16.48	16.45	16.37	16.36	17.90
20	256QAM	1	49	16.46	16.46	16.52	16.41	16.37	17.90
20	256QAM	1	99	16.40	16.44	16.54	16.45	16.42	17.90
20	256QAM	50	0	16.49	16.42	16.45	16.46	16.37	17.90
20	256QAM	50	24	16.43	16.43	16.47	16.41	16.45	17.90
20	256QAM	50	50	16.43	16.43	16.49	16.40	16.36	17.90
20	256QAM	100	0	16.42	16.40	16.44	16.48	16.41	17.90
Channel				39725	40173	40620	41068	41515	17.90
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	16.49	16.43	16.42	16.45	16.38	17.90
15	QPSK	1	37	16.33	16.37	16.41	16.29	16.32	17.90
15	QPSK	1	74	16.44	16.36	16.38	16.36	16.35	17.90
15	QPSK	36	0	16.29	16.40	16.50	16.35	16.29	17.90
15	QPSK	36	20	16.32	16.37	16.48	16.45	16.36	17.90
15	QPSK	36	39	16.37	16.33	16.48	16.47	16.32	17.90
15	QPSK	75	0	16.29	16.42	16.34	16.29	16.30	17.90
15	16QAM	1	0	16.37	16.36	16.50	16.40	16.39	17.90