



<LTE Band 41\_Ant 2\_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.49	20.50	20.30	20.30	20.29	20.9
20	QPSK	1	49	20.45	20.36	20.23	20.20	20.16	
20	QPSK	1	99	20.48	20.42	20.28	20.28	20.27	
20	QPSK	50	0	20.48	20.49	20.29	20.31	20.31	20.9
20	QPSK	50	24	20.47	20.43	20.28	20.29	20.30	
20	QPSK	50	50	20.47	20.48	20.29	20.30	20.29	
20	QPSK	100	0	20.51	20.41	20.29	20.29	20.31	20.9
20	16QAM	1	0	20.69	20.48	20.41	20.40	20.40	
20	16QAM	1	49	20.61	20.43	20.33	20.30	20.32	
20	16QAM	1	99	20.66	20.47	20.34	20.34	20.36	20.9
20	16QAM	50	0	20.53	20.42	20.30	20.29	20.32	
20	16QAM	50	24	20.53	20.46	20.31	20.29	20.31	
20	16QAM	50	50	20.55	20.42	20.31	20.29	20.32	20.9
20	16QAM	100	0	20.54	20.43	20.34	20.35	20.33	
20	64QAM	1	0	20.41	20.21	20.15	20.16	20.21	
20	64QAM	1	49	20.34	20.19	20.13	20.08	20.13	20.9
20	64QAM	1	99	20.34	20.25	20.15	20.13	20.16	
20	64QAM	50	0	20.54	20.42	20.31	20.31	20.32	
20	64QAM	50	24	20.55	20.45	20.33	20.29	20.32	20.9
20	64QAM	50	50	20.54	20.44	20.32	20.30	20.30	
20	64QAM	100	0	20.55	20.43	20.31	20.30	20.32	
20	256QAM	1	0	19.55	19.55	19.39	19.29	19.24	20.7
20	256QAM	1	49	19.33	19.42	19.21	19.10	19.15	
20	256QAM	1	99	19.16	19.39	19.05	18.97	19.11	
20	256QAM	50	0	18.74	18.71	18.34	18.43	18.47	19.7
20	256QAM	50	24	18.65	18.56	18.31	18.46	18.40	
20	256QAM	50	50	18.58	18.51	18.22	18.28	18.30	
20	256QAM	100	0	18.47	18.48	18.23	18.29	18.33	
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	20.40	20.45	20.21	20.26	20.24	20.90
15	QPSK	1	37	20.44	20.30	20.22	20.11	20.14	
15	QPSK	1	74	20.38	20.32	20.25	20.23	20.17	
15	QPSK	36	0	20.43	20.48	20.26	20.25	20.29	20.9
15	QPSK	36	20	20.44	20.35	20.19	20.28	20.23	
15	QPSK	36	39	20.43	20.36	20.29	20.20	20.27	
15	QPSK	75	0	20.50	20.31	20.23	20.29	20.30	20.9
15	16QAM	1	0	20.68	20.41	20.31	20.39	20.40	
15	16QAM	1	37	20.58	20.34	20.26	20.26	20.32	
15	16QAM	1	74	20.64	20.40	20.29	20.33	20.28	20.9
15	16QAM	36	0	20.47	20.35	20.20	20.20	20.28	
15	16QAM	36	20	20.44	20.43	20.30	20.28	20.24	
15	16QAM	36	39	20.49	20.41	20.24	20.21	20.26	20.9
15	16QAM	75	0	20.49	20.40	20.29	20.27	20.26	
15	64QAM	1	0	20.35	20.14	20.08	20.11	20.20	
15	64QAM	1	37	20.31	20.14	20.05	20.07	20.05	20.9
15	64QAM	1	74	20.33	20.21	20.08	20.13	20.08	
15	64QAM	36	0	20.46	20.37	20.21	20.29	20.30	
15	64QAM	36	20	20.53	20.38	20.31	20.22	20.32	20.9
15	64QAM	36	39	20.46	20.44	20.32	20.20	20.25	
15	64QAM	75	0	20.45	20.40	20.24	20.26	20.25	
15	256QAM	1	0	19.47	19.45	19.33	19.27	19.24	20.7
15	256QAM	1	37	19.32	19.41	19.19	19.01	19.07	
15	256QAM	1	74	19.10	19.36	18.97	18.87	19.05	
15	256QAM	36	0	18.72	18.67	18.30	18.43	18.37	19.7
15	256QAM	36	20	18.65	18.49	18.27	18.36	18.33	
15	256QAM	36	39	18.58	18.44	18.13	18.22	18.20	
15	256QAM	75	0	18.38	18.43	18.16	18.26	18.27	



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**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	20.42	20.45	20.29	20.23	20.21	20.90
10	QPSK	1	25	20.43	20.30	20.15	20.18	20.14	
10	QPSK	1	49	20.38	20.42	20.23	20.18	20.26	
10	QPSK	25	0	20.38	20.45	20.29	20.25	20.28	20.9
10	QPSK	25	12	20.39	20.42	20.28	20.25	20.29	
10	QPSK	25	25	20.43	20.41	20.21	20.22	20.23	
10	QPSK	50	0	20.41	20.35	20.20	20.25	20.24	20.9
10	16QAM	1	0	20.68	20.47	20.33	20.33	20.37	
10	16QAM	1	25	20.61	20.39	20.23	20.23	20.22	
10	16QAM	1	49	20.62	20.42	20.29	20.32	20.31	20.9
10	16QAM	25	0	20.48	20.42	20.27	20.29	20.32	
10	16QAM	25	12	20.47	20.41	20.24	20.26	20.26	
10	16QAM	25	25	20.48	20.39	20.27	20.28	20.22	20.9
10	16QAM	50	0	20.52	20.43	20.30	20.35	20.23	
10	64QAM	1	0	20.32	20.14	20.12	20.16	20.21	
10	64QAM	1	25	20.26	20.13	20.08	20.10	20.06	20.9
10	64QAM	1	49	20.30	20.18	20.14	20.09	20.13	
10	64QAM	25	0	20.49	20.34	20.28	20.21	20.23	
10	64QAM	25	12	20.51	20.39	20.32	20.26	20.24	20.9
10	64QAM	25	25	20.45	20.43	20.26	20.25	20.27	
10	64QAM	50	0	20.47	20.42	20.24	20.22	20.29	
10	256QAM	1	0	19.54	19.51	19.38	19.26	19.14	20.7
10	256QAM	1	25	19.26	19.38	19.13	19.03	19.12	
10	256QAM	1	49	19.15	19.31	18.98	18.92	19.07	
10	256QAM	25	0	18.68	18.65	18.32	18.42	18.44	19.7
10	256QAM	25	12	18.63	18.52	18.22	18.40	18.37	
10	256QAM	25	25	18.54	18.49	18.21	18.23	18.21	
10	256QAM	50	0	18.47	18.47	18.18	18.22	18.32	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	20.42	20.41	20.26	20.27	20.21	20.90
5	QPSK	1	12	20.40	20.35	20.23	20.16	20.09	
5	QPSK	1	24	20.41	20.42	20.24	20.22	20.20	
5	QPSK	12	0	20.45	20.43	20.29	20.26	20.21	20.9
5	QPSK	12	7	20.44	20.39	20.25	20.23	20.26	
5	QPSK	12	13	20.44	20.35	20.19	20.25	20.25	
5	QPSK	25	0	20.41	20.41	20.25	20.28	20.22	20.9
5	16QAM	1	0	20.61	20.45	20.35	20.34	20.38	
5	16QAM	1	12	20.54	20.34	20.28	20.24	20.32	
5	16QAM	1	24	20.61	20.37	20.34	20.24	20.30	20.9
5	16QAM	12	0	20.49	20.38	20.21	20.24	20.30	
5	16QAM	12	7	20.43	20.45	20.31	20.27	20.31	
5	16QAM	12	13	20.45	20.36	20.31	20.25	20.31	20.9
5	16QAM	25	0	20.45	20.35	20.34	20.27	20.31	
5	64QAM	1	0	20.34	20.19	20.15	20.16	20.21	
5	64QAM	1	12	20.28	20.10	20.11	20.11	20.13	20.9
5	64QAM	1	24	20.27	20.24	20.10	20.12	20.16	
5	64QAM	12	0	20.45	20.39	20.29	20.29	20.23	
5	64QAM	12	7	20.50	20.37	20.28	20.19	20.23	20.9
5	64QAM	12	13	20.44	20.42	20.29	20.30	20.29	
5	64QAM	25	0	20.45	20.41	20.23	20.27	20.24	
5	256QAM	1	0	19.53	19.53	19.31	19.24	19.20	20.7
5	256QAM	1	12	19.27	19.32	19.18	19.10	19.05	
5	256QAM	1	24	19.10	19.29	19.03	18.95	19.02	
5	256QAM	12	0	18.65	18.63	18.33	18.39	18.38	19.7
5	256QAM	12	7	18.56	18.51	18.24	18.36	18.35	
5	256QAM	12	13	18.53	18.46	18.12	18.24	18.25	
5	256QAM	25	0	18.39	18.48	18.21	18.20	18.23	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.95	23.96	23.70	23.67	23.70	25.6
20	QPSK	1	49	23.93	23.81	23.68	23.65	23.66	
20	QPSK	1	99	23.93	23.83	23.70	23.65	23.65	
20	QPSK	50	0	22.85	22.86	22.67	22.66	22.67	23.7
20	QPSK	50	24	22.80	22.79	22.65	22.64	22.66	
20	QPSK	50	50	22.80	22.79	22.66	22.65	22.63	
20	QPSK	100	0	22.87	22.88	22.67	22.65	22.66	24.7
20	16QAM	1	0	24.00	23.86	23.72	23.69	23.75	
20	16QAM	1	49	23.81	23.77	23.57	23.61	23.59	
20	16QAM	1	99	23.93	23.90	23.68	23.68	23.64	22.2
20	16QAM	50	0	21.37	21.29	21.17	21.15	21.17	
20	16QAM	50	24	21.39	21.27	21.19	21.16	21.20	
20	16QAM	50	50	21.38	21.30	21.17	21.14	21.15	23.7
20	16QAM	100	0	21.41	21.30	21.18	21.18	21.20	
20	64QAM	1	0	22.82	22.58	22.53	22.55	22.56	
20	64QAM	1	49	22.74	22.64	22.47	22.54	22.59	21.7
20	64QAM	1	99	22.76	22.68	22.41	22.56	22.62	
20	64QAM	50	0	20.90	20.78	20.68	20.67	20.68	
20	64QAM	50	24	20.87	20.81	20.69	20.65	20.69	20.7
20	64QAM	50	50	20.89	20.79	20.68	20.65	20.66	
20	64QAM	100	0	20.89	20.79	20.65	20.66	20.67	
20	256QAM	1	0	19.59	19.55	19.49	19.31	19.27	19.7
20	256QAM	1	49	19.33	19.44	19.31	19.14	19.18	
20	256QAM	1	99	19.26	19.44	19.14	19.05	19.12	
20	256QAM	50	0	18.75	18.71	18.39	18.47	18.49	20.7
20	256QAM	50	24	18.70	18.66	18.41	18.49	18.40	
20	256QAM	50	50	18.60	18.61	18.23	18.34	18.39	
20	256QAM	100	0	18.55	18.57	18.24	18.34	18.35	
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	23.88	23.86	23.61	23.61	23.64	25.60
15	QPSK	1	37	23.91	23.81	23.63	23.61	23.60	
15	QPSK	1	74	23.83	23.78	23.69	23.61	23.64	
15	QPSK	36	0	22.85	22.80	22.67	22.63	22.59	23.7
15	QPSK	36	20	22.78	22.70	22.58	22.58	22.63	
15	QPSK	36	39	22.77	22.74	22.59	22.58	22.59	
15	QPSK	75	0	22.81	22.81	22.67	22.64	22.59	24.7
15	16QAM	1	0	23.91	23.86	23.71	23.68	23.71	
15	16QAM	1	37	23.80	23.68	23.47	23.59	23.55	
15	16QAM	1	74	23.83	23.81	23.65	23.68	23.57	22.2
15	16QAM	36	0	21.37	21.28	21.12	21.07	21.10	
15	16QAM	36	20	21.36	21.19	21.12	21.07	21.13	
15	16QAM	36	39	21.38	21.27	21.15	21.08	21.14	23.7
15	16QAM	75	0	21.36	21.21	21.17	21.10	21.10	
15	64QAM	1	0	22.79	22.50	22.50	22.47	22.47	
15	64QAM	1	37	22.73	22.61	22.39	22.52	22.57	21.7
15	64QAM	1	74	22.72	22.66	22.40	22.54	22.61	
15	64QAM	36	0	20.82	20.71	20.67	20.64	20.58	
15	64QAM	36	20	20.78	20.78	20.66	20.56	20.68	20.7
15	64QAM	36	39	20.85	20.76	20.64	20.55	20.57	
15	64QAM	75	0	20.79	20.76	20.61	20.62	20.60	
15	256QAM	1	0	19.50	19.53	19.44	19.28	19.17	19.7
15	256QAM	1	37	19.27	19.40	19.22	19.13	19.14	
15	256QAM	1	74	19.17	19.44	19.09	19.01	19.06	
15	256QAM	36	0	18.70	18.62	18.37	18.39	18.45	19.7
15	256QAM	36	20	18.63	18.63	18.38	18.39	18.37	
15	256QAM	36	39	18.54	18.61	18.20	18.24	18.31	
15	256QAM	75	0	18.47	18.53	18.20	18.33	18.28	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit	
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	
10	QPSK	1	0	23.88	23.86	23.66	23.66	23.67	25.60	
10	QPSK	1	25	23.83	23.72	23.65	23.66	23.66		
10	QPSK	1	49	23.90	23.75	23.67	23.64	23.62		
10	QPSK	25	0	22.78	22.79	22.57	22.70	22.62	23.7	
10	QPSK	25	12	22.77	22.75	22.60	22.55	22.60		
10	QPSK	25	25	22.72	22.73	22.56	22.63	22.58		
10	QPSK	50	0	22.83	22.85	22.58	22.64	22.62	24.7	
10	16QAM	1	0	23.98	23.82	23.67	23.60	23.65		
10	16QAM	1	25	23.73	23.75	23.54	23.51	23.52		
10	16QAM	1	49	23.88	23.80	23.63	23.66	23.63	22.2	
10	16QAM	25	0	21.35	21.24	21.11	21.15	21.07		
10	16QAM	25	12	21.34	21.20	21.10	21.11	21.16		
10	16QAM	25	25	21.36	21.25	21.14	21.13	21.05	23.7	
10	16QAM	50	0	21.36	21.21	21.10	21.16	21.13		
10	64QAM	1	0	22.81	22.51	22.48	22.46	22.46		
10	64QAM	1	25	22.66	22.55	22.39	22.49	22.55	21.7	
10	64QAM	1	49	22.68	22.63	22.37	22.48	22.61		
10	64QAM	25	0	20.83	20.70	20.65	20.67	20.65		
10	64QAM	25	12	20.85	20.78	20.65	20.63	20.68	20.7	
10	64QAM	25	25	20.82	20.79	20.67	20.59	20.66		
10	64QAM	50	0	20.85	20.71	20.61	20.59	20.64		
10	256QAM	1	0	19.58	19.47	19.47	19.30	19.27	19.7	
10	256QAM	1	25	19.27	19.34	19.31	19.05	19.18		
10	256QAM	1	49	19.25	19.35	19.08	18.95	19.03		
10	256QAM	25	0	18.65	18.61	18.32	18.43	18.49	20.7	
10	256QAM	25	12	18.60	18.60	18.36	18.45	18.39		
10	256QAM	25	25	18.52	18.51	18.15	18.33	18.29		
10	256QAM	50	0	18.45	18.55	18.21	18.34	18.28	19.7	
Channel				39675	40148	40620	41093	41565		Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		(dBm)
5	QPSK	1	0	23.86	23.90	23.68	23.70	23.67	25.60	
5	QPSK	1	12	23.84	23.78	23.64	23.62	23.62		
5	QPSK	1	24	23.83	23.75	23.61	23.67	23.65		
5	QPSK	12	0	22.76	22.83	22.59	22.61	22.64	23.7	
5	QPSK	12	7	22.72	22.72	22.57	22.54	22.65		
5	QPSK	12	13	22.78	22.72	22.61	22.64	22.56		
5	QPSK	25	0	22.81	22.80	22.57	22.55	22.65	24.7	
5	16QAM	1	0	23.95	23.77	23.71	23.60	23.72		
5	16QAM	1	12	23.76	23.75	23.55	23.59	23.59		
5	16QAM	1	24	23.91	23.89	23.59	23.63	23.54	22.2	
5	16QAM	12	0	21.31	21.28	21.08	21.08	21.13		
5	16QAM	12	7	21.30	21.22	21.13	21.06	21.19		
5	16QAM	12	13	21.32	21.30	21.14	21.09	21.07	23.7	
5	16QAM	25	0	21.34	21.21	21.17	21.15	21.16		
5	64QAM	1	0	22.72	22.54	22.45	22.55	22.56		
5	64QAM	1	12	22.66	22.59	22.47	22.49	22.58	21.7	
5	64QAM	1	24	22.68	22.61	22.33	22.46	22.56		
5	64QAM	12	0	20.85	20.71	20.64	20.59	20.64		
5	64QAM	12	7	20.87	20.77	20.63	20.56	20.62	20.7	
5	64QAM	12	13	20.89	20.76	20.61	20.58	20.64		
5	64QAM	25	0	20.89	20.70	20.56	20.62	20.57		
5	256QAM	1	0	19.58	19.51	19.49	19.21	19.26	19.7	
5	256QAM	1	12	19.31	19.43	19.27	19.05	19.18		
5	256QAM	1	24	19.22	19.39	19.09	18.95	19.03		
5	256QAM	12	0	18.66	18.70	18.33	18.41	18.41	19.7	
5	256QAM	12	7	18.64	18.57	18.32	18.49	18.39		
5	256QAM	12	13	18.52	18.60	18.13	18.34	18.29		
5	256QAM	25	0	18.53	18.55	18.21	18.25	18.32		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.95	23.96	23.70	23.67	23.70	24.5
20	QPSK	1	49	23.93	23.81	23.68	23.65	23.66	
20	QPSK	1	99	23.93	23.83	23.70	23.65	23.65	
20	QPSK	50	0	22.85	22.86	22.67	22.66	22.67	23.7
20	QPSK	50	24	22.80	22.79	22.65	22.64	22.66	
20	QPSK	50	50	22.80	22.79	22.66	22.65	22.63	
20	QPSK	100	0	22.87	22.88	22.67	22.65	22.66	24.5
20	16QAM	1	0	24.00	23.86	23.72	23.69	23.75	
20	16QAM	1	49	23.81	23.77	23.57	23.61	23.59	
20	16QAM	1	99	23.93	23.90	23.68	23.68	23.64	22.2
20	16QAM	50	0	21.37	21.29	21.17	21.15	21.17	
20	16QAM	50	24	21.39	21.27	21.19	21.16	21.20	
20	16QAM	50	50	21.38	21.30	21.17	21.14	21.15	23.7
20	16QAM	100	0	21.41	21.30	21.18	21.18	21.20	
20	64QAM	1	0	22.82	22.58	22.53	22.55	22.56	
20	64QAM	1	49	22.74	22.64	22.47	22.54	22.59	21.7
20	64QAM	1	99	22.76	22.68	22.41	22.56	22.62	
20	64QAM	50	0	20.90	20.78	20.68	20.67	20.68	
20	64QAM	50	24	20.87	20.81	20.69	20.65	20.69	20.7
20	64QAM	50	50	20.89	20.79	20.68	20.65	20.66	
20	64QAM	100	0	20.89	20.79	20.65	20.66	20.67	
20	256QAM	1	0	19.59	19.55	19.49	19.31	19.27	19.7
20	256QAM	1	49	19.33	19.44	19.31	19.14	19.18	
20	256QAM	1	99	19.26	19.44	19.14	19.05	19.12	
20	256QAM	50	0	18.75	18.71	18.39	18.47	18.49	20.7
20	256QAM	50	24	18.70	18.66	18.41	18.49	18.40	
20	256QAM	50	50	18.60	18.61	18.23	18.34	18.39	
20	256QAM	100	0	18.55	18.57	18.24	18.34	18.35	
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	23.88	23.86	23.61	23.61	23.64	24.50
15	QPSK	1	37	23.91	23.81	23.63	23.61	23.60	
15	QPSK	1	74	23.83	23.78	23.69	23.61	23.64	
15	QPSK	36	0	22.85	22.80	22.67	22.63	22.59	23.7
15	QPSK	36	20	22.78	22.70	22.58	22.58	22.63	
15	QPSK	36	39	22.77	22.74	22.59	22.58	22.59	
15	QPSK	75	0	22.81	22.81	22.67	22.64	22.59	24.5
15	16QAM	1	0	23.91	23.86	23.71	23.68	23.71	
15	16QAM	1	37	23.80	23.68	23.47	23.59	23.55	
15	16QAM	1	74	23.83	23.81	23.65	23.68	23.57	22.2
15	16QAM	36	0	21.37	21.28	21.12	21.07	21.10	
15	16QAM	36	20	21.36	21.19	21.12	21.07	21.13	
15	16QAM	36	39	21.38	21.27	21.15	21.08	21.14	23.7
15	16QAM	75	0	21.36	21.21	21.17	21.10	21.10	
15	64QAM	1	0	22.79	22.50	22.50	22.47	22.47	
15	64QAM	1	37	22.73	22.61	22.39	22.52	22.57	21.7
15	64QAM	1	74	22.72	22.66	22.40	22.54	22.61	
15	64QAM	36	0	20.82	20.71	20.67	20.64	20.58	
15	64QAM	36	20	20.78	20.78	20.66	20.56	20.68	20.7
15	64QAM	36	39	20.85	20.76	20.64	20.55	20.57	
15	64QAM	75	0	20.79	20.76	20.61	20.62	20.60	
15	256QAM	1	0	19.50	19.53	19.44	19.28	19.17	19.7
15	256QAM	1	37	19.27	19.40	19.22	19.13	19.14	
15	256QAM	1	74	19.17	19.44	19.09	19.01	19.06	
15	256QAM	36	0	18.70	18.62	18.37	18.39	18.45	19.7
15	256QAM	36	20	18.63	18.63	18.38	18.39	18.37	
15	256QAM	36	39	18.54	18.61	18.20	18.24	18.31	
15	256QAM	75	0	18.47	18.53	18.20	18.33	18.28	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit	
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	
10	QPSK	1	0	23.88	23.86	23.66	23.66	23.67	24.50	
10	QPSK	1	25	23.83	23.72	23.65	23.66	23.66		
10	QPSK	1	49	23.90	23.75	23.67	23.64	23.62		
10	QPSK	25	0	22.78	22.79	22.57	22.70	22.62	23.7	
10	QPSK	25	12	22.77	22.75	22.60	22.55	22.60		
10	QPSK	25	25	22.72	22.73	22.56	22.63	22.58		
10	QPSK	50	0	22.83	22.85	22.58	22.64	22.62	24.5	
10	16QAM	1	0	23.98	23.82	23.67	23.60	23.65		
10	16QAM	1	25	23.73	23.75	23.54	23.51	23.52		
10	16QAM	1	49	23.88	23.80	23.63	23.66	23.63	22.2	
10	16QAM	25	0	21.35	21.24	21.11	21.15	21.07		
10	16QAM	25	12	21.34	21.20	21.10	21.11	21.16		
10	16QAM	25	25	21.36	21.25	21.14	21.13	21.05	23.7	
10	16QAM	50	0	21.36	21.21	21.10	21.16	21.13		
10	64QAM	1	0	22.81	22.51	22.48	22.46	22.46		
10	64QAM	1	25	22.66	22.55	22.39	22.49	22.55	21.7	
10	64QAM	1	49	22.68	22.63	22.37	22.48	22.61		
10	64QAM	25	0	20.83	20.70	20.65	20.67	20.65		
10	64QAM	25	12	20.85	20.78	20.65	20.63	20.68	20.7	
10	64QAM	25	25	20.82	20.79	20.67	20.59	20.66		
10	64QAM	50	0	20.85	20.71	20.61	20.59	20.64		
10	256QAM	1	0	19.58	19.47	19.47	19.30	19.27	19.7	
10	256QAM	1	25	19.27	19.34	19.31	19.05	19.18		
10	256QAM	1	49	19.25	19.35	19.08	18.95	19.03		
10	256QAM	25	0	18.65	18.61	18.32	18.43	18.49	20.7	
10	256QAM	25	12	18.60	18.60	18.36	18.45	18.39		
10	256QAM	25	25	18.52	18.51	18.15	18.33	18.29		
10	256QAM	50	0	18.45	18.55	18.21	18.34	18.28	19.7	
Channel				39675	40148	40620	41093	41565		Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		(dBm)
5	QPSK	1	0	23.86	23.90	23.68	23.70	23.67	24.50	
5	QPSK	1	12	23.84	23.78	23.64	23.62	23.62		
5	QPSK	1	24	23.83	23.75	23.61	23.67	23.65		
5	QPSK	12	0	22.76	22.83	22.59	22.61	22.64	23.7	
5	QPSK	12	7	22.72	22.72	22.57	22.54	22.65		
5	QPSK	12	13	22.78	22.72	22.61	22.64	22.56		
5	QPSK	25	0	22.81	22.80	22.57	22.55	22.65	24.5	
5	16QAM	1	0	23.95	23.77	23.71	23.60	23.72		
5	16QAM	1	12	23.76	23.75	23.55	23.59	23.59		
5	16QAM	1	24	23.91	23.89	23.59	23.63	23.54	22.2	
5	16QAM	12	0	21.31	21.28	21.08	21.08	21.13		
5	16QAM	12	7	21.30	21.22	21.13	21.06	21.19		
5	16QAM	12	13	21.32	21.30	21.14	21.09	21.07	23.7	
5	16QAM	25	0	21.34	21.21	21.17	21.15	21.16		
5	64QAM	1	0	22.72	22.54	22.45	22.55	22.56		
5	64QAM	1	12	22.66	22.59	22.47	22.49	22.58	21.7	
5	64QAM	1	24	22.68	22.61	22.33	22.46	22.56		
5	64QAM	12	0	20.85	20.71	20.64	20.59	20.64		
5	64QAM	12	7	20.87	20.77	20.63	20.56	20.62	20.7	
5	64QAM	12	13	20.89	20.76	20.61	20.58	20.64		
5	64QAM	25	0	20.89	20.70	20.56	20.62	20.57		
5	256QAM	1	0	19.58	19.51	19.49	19.21	19.26	19.7	
5	256QAM	1	12	19.31	19.43	19.27	19.05	19.18		
5	256QAM	1	24	19.22	19.39	19.09	18.95	19.03		
5	256QAM	12	0	18.66	18.70	18.33	18.41	18.41	19.7	
5	256QAM	12	7	18.64	18.57	18.32	18.49	18.39		
5	256QAM	12	13	18.52	18.60	18.13	18.34	18.29		
5	256QAM	25	0	18.53	18.55	18.21	18.25	18.32		



**FCC SAR TEST REPORT**

Report No. : FA380306C

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.77	25.80	25.56	25.54	25.61	27
20	QPSK	1	49	25.71	25.78	25.52	25.51	25.56	
20	QPSK	1	99	25.70	25.79	25.47	25.50	25.52	
20	QPSK	50	0	23.86	23.98	23.68	23.67	23.74	25
20	QPSK	50	24	23.77	23.91	23.58	23.57	23.64	
20	QPSK	50	50	23.77	23.92	23.59	23.59	23.66	
20	QPSK	100	0	23.76	23.90	23.59	23.58	23.64	26
20	16QAM	1	0	25.05	25.36	24.94	24.89	24.95	
20	16QAM	1	49	24.93	25.11	24.68	24.62	24.73	
20	16QAM	1	99	25.14	25.39	24.88	24.89	24.91	23.5
20	16QAM	50	0	22.32	22.42	22.11	22.09	22.18	
20	16QAM	50	24	22.33	22.46	22.12	22.08	22.18	
20	16QAM	50	50	22.33	22.45	22.10	22.09	22.17	25
20	16QAM	100	0	22.31	22.42	22.12	22.08	22.18	
20	64QAM	1	0	23.87	23.94	23.65	23.52	23.62	
20	64QAM	1	49	23.79	23.70	23.53	23.47	23.56	23
20	64QAM	1	99	23.82	23.67	23.52	23.50	23.55	
20	64QAM	50	0	21.81	21.90	21.61	21.56	21.65	
20	64QAM	50	24	21.81	21.91	21.58	21.55	21.64	22
20	64QAM	50	50	21.81	21.91	21.58	21.55	21.63	
20	64QAM	100	0	21.80	21.91	21.60	21.58	21.65	
20	256QAM	1	0	21.02	20.68	20.56	20.71	20.73	21
20	256QAM	1	49	20.98	20.66	20.51	20.65	20.59	
20	256QAM	1	99	20.89	20.63	20.37	20.59	20.51	
20	256QAM	50	0	19.74	19.63	19.56	19.51	19.50	21
20	256QAM	50	24	19.71	19.59	19.52	19.49	19.48	
20	256QAM	50	50	19.66	19.57	19.45	19.47	19.44	
20	256QAM	100	0	19.64	19.53	19.43	19.43	19.43	
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	25.74	25.78	25.56	25.50	25.59	27.00
15	QPSK	1	37	25.51	25.59	25.42	25.36	25.44	
15	QPSK	1	74	25.71	25.74	25.54	25.51	25.57	
15	QPSK	36	0	23.80	23.84	23.60	23.57	23.64	25
15	QPSK	36	20	23.80	23.83	23.59	23.57	23.65	
15	QPSK	36	39	23.79	23.84	23.59	23.58	23.64	
15	QPSK	75	0	23.81	23.83	23.59	23.56	23.63	26
15	16QAM	1	0	25.14	25.23	25.11	24.89	24.93	
15	16QAM	1	37	25.10	25.19	24.81	24.87	24.75	
15	16QAM	1	74	25.20	25.20	24.83	24.92	24.80	23.5
15	16QAM	36	0	22.35	22.30	22.12	22.03	22.16	
15	16QAM	36	20	22.33	22.30	22.08	22.03	22.13	
15	16QAM	36	39	22.31	22.35	22.09	22.05	22.13	25
15	16QAM	75	0	22.37	22.34	22.12	22.05	22.15	
15	64QAM	1	0	24.15	24.07	23.89	23.79	23.90	
15	64QAM	1	37	24.04	24.02	23.70	23.72	23.65	23
15	64QAM	1	74	24.17	24.12	23.87	23.87	23.84	
15	64QAM	36	0	21.83	21.81	21.61	21.54	21.63	
15	64QAM	36	20	21.82	21.82	21.60	21.52	21.61	22
15	64QAM	36	39	21.81	21.82	21.60	21.55	21.63	
15	64QAM	75	0	21.84	21.83	21.60	21.54	21.62	
15	256QAM	1	0	20.97	20.62	20.46	20.71	20.65	21
15	256QAM	1	37	20.92	20.65	20.47	20.65	20.57	
15	256QAM	1	74	20.86	20.62	20.27	20.49	20.50	
15	256QAM	36	0	19.73	19.61	19.50	19.45	19.45	
15	256QAM	36	20	19.69	19.50	19.51	19.42	19.38	
15	256QAM	36	39	19.56	19.52	19.45	19.42	19.36	
15	256QAM	75	0	19.59	19.53	19.35	19.40	19.42	



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**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.67	25.68	25.47	25.45	25.57	27.00
10	QPSK	1	25	25.68	25.71	25.47	25.47	25.54	
10	QPSK	1	49	25.72	25.74	25.49	25.51	25.60	
10	QPSK	25	0	23.82	23.81	23.59	23.59	23.70	25
10	QPSK	25	12	23.81	23.81	23.58	23.55	23.69	
10	QPSK	25	25	23.81	23.82	23.58	23.58	23.70	
10	QPSK	50	0	23.76	23.82	23.56	23.59	23.72	26
10	16QAM	1	0	25.25	25.20	25.07	24.97	25.07	
10	16QAM	1	25	25.08	25.07	24.84	24.88	24.88	
10	16QAM	1	49	25.19	25.18	24.94	24.95	24.96	23.5
10	16QAM	25	0	22.42	22.36	22.17	22.17	22.28	
10	16QAM	25	12	22.42	22.38	22.15	22.12	22.21	
10	16QAM	25	25	22.44	22.36	22.16	22.13	22.20	25
10	16QAM	50	0	22.27	22.32	22.08	22.09	22.21	
10	64QAM	1	0	23.93	23.91	23.72	23.71	23.81	
10	64QAM	1	25	23.92	23.83	23.66	23.63	23.51	23
10	64QAM	1	49	24.00	23.94	23.73	23.73	23.52	
10	64QAM	25	0	21.91	21.80	21.65	21.61	21.69	
10	64QAM	25	12	21.90	21.79	21.62	21.60	21.65	22
10	64QAM	25	25	21.89	21.80	21.64	21.61	21.69	
10	64QAM	50	0	21.82	21.81	21.59	21.62	21.71	
10	256QAM	1	0	20.83	20.61	20.37	20.71	20.64	21
10	256QAM	1	25	20.80	20.57	20.40	20.57	20.50	
10	256QAM	1	49	20.69	20.56	20.25	20.41	20.47	
10	256QAM	25	0	19.58	19.54	19.40	19.40	19.37	21
10	256QAM	25	12	19.58	19.40	19.41	19.41	19.37	
10	256QAM	25	25	19.36	19.46	19.39	19.42	19.33	
10	256QAM	50	0	19.43	19.49	19.31	19.40	19.36	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.77	25.72	25.60	25.59	25.66	27.00
5	QPSK	1	12	25.69	25.56	25.44	25.30	25.54	
5	QPSK	1	24	25.75	25.73	25.59	25.59	25.67	
5	QPSK	12	0	23.93	24.00	23.75	23.74	23.83	25
5	QPSK	12	7	23.96	23.99	23.72	23.70	23.81	
5	QPSK	12	13	23.93	23.98	23.73	23.71	23.79	
5	QPSK	25	0	23.93	23.99	23.74	23.74	23.79	26
5	16QAM	1	0	25.08	25.22	25.01	24.89	25.00	
5	16QAM	1	12	24.96	25.22	24.80	24.95	24.88	
5	16QAM	1	24	25.35	25.40	24.96	25.17	24.99	23.5
5	16QAM	12	0	22.41	22.42	22.29	22.14	22.33	
5	16QAM	12	7	22.38	22.48	22.29	22.24	22.33	
5	16QAM	12	13	22.48	22.47	22.28	22.23	22.32	25
5	16QAM	25	0	22.60	22.53	22.29	22.26	22.35	
5	64QAM	1	0	24.20	24.12	23.95	24.01	23.96	
5	64QAM	1	12	23.90	23.84	23.88	23.86	23.84	23
5	64QAM	1	24	24.09	24.11	23.95	23.91	23.98	
5	64QAM	12	0	21.99	22.02	21.80	21.75	21.82	
5	64QAM	12	7	21.97	21.92	21.81	21.71	21.82	22
5	64QAM	12	13	21.99	21.97	21.79	21.73	21.84	
5	64QAM	25	0	21.99	21.95	21.77	21.70	21.77	
5	256QAM	1	0	20.67	20.52	20.32	20.70	20.57	21
5	256QAM	1	12	20.71	20.48	20.37	20.52	20.43	
5	256QAM	1	24	20.62	20.54	20.20	20.38	20.42	
5	256QAM	12	0	19.49	19.44	19.30	19.31	19.29	21
5	256QAM	12	7	19.48	19.32	19.40	19.37	19.29	
5	256QAM	12	13	19.34	19.43	19.36	19.41	19.28	
5	256QAM	25	0	19.30	19.43	19.26	19.36	19.30	





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.54	23.59	23.48	23.45	23.48	24.9
20	QPSK	1	49	23.50	23.58	23.47	23.44	23.47	
20	QPSK	1	99	23.54	23.54	23.40	23.40	23.43	
20	QPSK	50	0	23.52	23.57	23.32	23.33	23.42	24.9
20	QPSK	50	24	23.50	23.56	23.31	23.32	23.41	
20	QPSK	50	50	23.50	23.54	23.31	23.32	23.37	
20	QPSK	100	0	23.50	23.56	23.31	23.31	23.38	24.9
20	16QAM	1	0	23.79	23.85	23.50	23.43	23.50	
20	16QAM	1	49	23.44	23.62	23.19	23.11	23.21	
20	16QAM	1	99	23.68	23.81	23.43	23.38	23.43	23.5
20	16QAM	50	0	23.03	23.07	22.83	22.80	22.89	
20	16QAM	50	24	23.01	23.09	22.81	22.79	22.88	
20	16QAM	50	50	23.03	23.10	22.82	22.80	22.85	24.9
20	16QAM	100	0	23.06	23.06	22.84	22.81	22.88	
20	64QAM	1	0	23.66	23.61	23.39	23.32	23.40	
20	64QAM	1	49	23.66	23.66	23.43	23.35	23.43	23
20	64QAM	1	99	23.58	23.58	23.30	23.29	23.31	
20	64QAM	50	0	22.52	22.53	22.31	22.26	22.34	
20	64QAM	50	24	22.54	22.55	22.33	22.29	22.39	22
20	64QAM	50	50	22.53	22.55	22.30	22.30	22.36	
20	64QAM	100	0	22.54	22.54	22.32	22.31	22.39	
20	256QAM	1	0	21.02	20.61	20.53	20.63	20.64	21
20	256QAM	1	49	20.96	20.57	20.47	20.55	20.58	
20	256QAM	1	99	20.86	20.60	20.32	20.52	20.51	
20	256QAM	50	0	19.69	19.61	19.48	19.47	19.44	21
20	256QAM	50	24	19.62	19.58	19.51	19.48	19.45	
20	256QAM	50	50	19.63	19.49	19.42	19.37	19.43	
20	256QAM	100	0	19.55	19.44	19.42	19.42	19.34	
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	23.50	23.51	23.37	23.34	23.36	24.90
15	QPSK	1	37	23.49	23.52	23.29	23.33	23.27	
15	QPSK	1	74	23.44	23.51	23.20	23.19	23.30	
15	QPSK	36	0	23.52	23.54	23.30	23.23	23.42	24.9
15	QPSK	36	20	23.45	23.47	23.29	23.31	23.39	
15	QPSK	36	39	23.41	23.47	23.25	23.24	23.27	
15	QPSK	75	0	23.48	23.48	23.24	23.29	23.38	24.9
15	16QAM	1	0	23.74	23.83	23.50	23.41	23.47	
15	16QAM	1	37	23.37	23.52	23.14	23.07	23.21	
15	16QAM	1	74	23.67	23.77	23.38	23.28	23.41	23.5
15	16QAM	36	0	22.96	22.98	22.82	22.77	22.83	
15	16QAM	36	20	22.91	22.99	22.78	22.77	22.80	
15	16QAM	36	39	23.02	23.10	22.72	22.71	22.85	24.9
15	16QAM	75	0	23.04	22.98	22.76	22.80	22.87	
15	64QAM	1	0	23.65	23.57	23.30	23.24	23.32	
15	64QAM	1	37	23.63	23.65	23.38	23.31	23.38	23
15	64QAM	1	74	23.56	23.58	23.27	23.22	23.30	
15	64QAM	36	0	22.49	22.49	22.25	22.20	22.29	
15	64QAM	36	20	22.52	22.47	22.30	22.26	22.33	22
15	64QAM	36	39	22.52	22.51	22.30	22.24	22.26	
15	64QAM	75	0	22.45	22.50	22.30	22.30	22.35	
15	256QAM	1	0	20.95	20.54	20.48	20.62	20.54	21
15	256QAM	1	37	20.89	20.50	20.41	20.45	20.54	
15	256QAM	1	74	20.80	20.57	20.30	20.42	20.51	
15	256QAM	36	0	19.65	19.55	19.47	19.42	19.40	21
15	256QAM	36	20	19.56	19.58	19.50	19.48	19.38	
15	256QAM	36	39	19.57	19.47	19.33	19.28	19.34	
15	256QAM	75	0	19.53	19.40	19.34	19.37	19.32	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.46	23.55	23.28	23.29	23.33	24.90
10	QPSK	1	25	23.50	23.54	23.34	23.32	23.30	
10	QPSK	1	49	23.54	23.52	23.25	23.27	23.26	
10	QPSK	25	0	23.47	23.55	23.29	23.24	23.41	24.9
10	QPSK	25	12	23.49	23.48	23.29	23.30	23.40	
10	QPSK	25	25	23.41	23.46	23.27	23.27	23.37	
10	QPSK	50	0	23.41	23.55	23.21	23.28	23.28	24.9
10	16QAM	1	0	23.77	23.81	23.41	23.34	23.46	
10	16QAM	1	25	23.42	23.58	23.11	23.04	23.21	
10	16QAM	1	49	23.61	23.73	23.42	23.30	23.38	24.9
10	16QAM	25	0	22.98	22.99	22.81	22.77	22.83	
10	16QAM	25	12	22.92	23.05	22.76	22.74	22.85	
10	16QAM	25	25	22.98	23.02	22.82	22.74	22.82	23.5
10	16QAM	50	0	22.97	23.01	22.79	22.73	22.82	
10	64QAM	1	0	23.65	23.51	23.29	23.30	23.39	
10	64QAM	1	25	23.56	23.63	23.39	23.33	23.43	24.9
10	64QAM	1	49	23.48	23.49	23.21	23.21	23.27	
10	64QAM	25	0	22.45	22.47	22.26	22.24	22.32	
10	64QAM	25	12	22.49	22.51	22.31	22.28	22.34	23
10	64QAM	25	25	22.45	22.51	22.28	22.29	22.35	
10	64QAM	50	0	22.48	22.49	22.27	22.25	22.34	
10	256QAM	1	0	20.92	20.51	20.47	20.58	20.61	22
10	256QAM	1	25	20.93	20.57	20.47	20.52	20.58	
10	256QAM	1	49	20.82	20.50	20.27	20.47	20.47	
10	256QAM	25	0	19.61	19.53	19.43	19.42	19.37	21
10	256QAM	25	12	19.60	19.58	19.43	19.40	19.42	
10	256QAM	25	25	19.55	19.40	19.39	19.29	19.36	
10	256QAM	50	0	19.45	19.36	19.38	19.32	19.26	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.48	23.51	23.31	23.28	23.32	24.90
5	QPSK	1	12	23.48	23.51	23.35	23.25	23.29	
5	QPSK	1	24	23.47	23.49	23.28	23.25	23.30	
5	QPSK	12	0	23.45	23.48	23.30	23.27	23.40	24.9
5	QPSK	12	7	23.46	23.55	23.25	23.29	23.38	
5	QPSK	12	13	23.46	23.46	23.29	23.24	23.28	
5	QPSK	25	0	23.41	23.52	23.30	23.31	23.37	24.9
5	16QAM	1	0	23.69	23.79	23.50	23.35	23.47	
5	16QAM	1	12	23.34	23.58	23.11	23.09	23.17	
5	16QAM	1	24	23.58	23.75	23.42	23.28	23.42	24.9
5	16QAM	12	0	22.97	22.98	22.75	22.71	22.83	
5	16QAM	12	7	22.94	23.09	22.73	22.75	22.86	
5	16QAM	12	13	22.98	23.09	22.76	22.70	22.76	23.5
5	16QAM	25	0	23.05	22.96	22.80	22.74	22.82	
5	64QAM	1	0	23.58	23.58	23.38	23.23	23.34	
5	64QAM	1	12	23.60	23.64	23.37	23.26	23.43	24.9
5	64QAM	1	24	23.55	23.51	23.21	23.20	23.21	
5	64QAM	12	0	22.49	22.45	22.29	22.16	22.33	
5	64QAM	12	7	22.45	22.50	22.30	22.27	22.30	23
5	64QAM	12	13	22.51	22.55	22.23	22.20	22.34	
5	64QAM	25	0	22.53	22.48	22.30	22.25	22.33	
5	256QAM	1	0	21.00	20.56	20.52	20.58	20.61	22
5	256QAM	1	12	20.93	20.50	20.42	20.50	20.58	
5	256QAM	1	24	20.82	20.59	20.25	20.42	20.42	
5	256QAM	12	0	19.68	19.59	19.45	19.46	19.43	21
5	256QAM	12	7	19.58	19.53	19.49	19.48	19.42	
5	256QAM	12	13	19.62	19.42	19.41	19.30	19.37	
5	256QAM	25	0	19.55	19.43	19.40	19.33	19.31	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.77	25.80	25.56	25.54	25.61	25.8
20	QPSK	1	49	25.71	25.78	25.52	25.51	25.56	
20	QPSK	1	99	25.70	25.79	25.47	25.50	25.52	
20	QPSK	50	0	23.86	23.98	23.68	23.67	23.74	25
20	QPSK	50	24	23.77	23.91	23.58	23.57	23.64	
20	QPSK	50	50	23.77	23.92	23.59	23.59	23.66	
20	QPSK	100	0	23.76	23.90	23.59	23.58	23.64	25.8
20	16QAM	1	0	25.05	25.36	24.94	24.89	24.95	
20	16QAM	1	49	24.93	25.11	24.68	24.62	24.73	
20	16QAM	1	99	25.14	25.39	24.88	24.89	24.91	23.5
20	16QAM	50	0	22.32	22.42	22.11	22.09	22.18	
20	16QAM	50	24	22.33	22.46	22.12	22.08	22.18	
20	16QAM	50	50	22.33	22.45	22.10	22.09	22.17	25
20	16QAM	100	0	22.31	22.42	22.12	22.08	22.18	
20	64QAM	1	0	23.87	23.94	23.65	23.52	23.62	
20	64QAM	1	49	23.79	23.70	23.53	23.47	23.56	23
20	64QAM	1	99	23.82	23.67	23.52	23.50	23.55	
20	64QAM	50	0	21.81	21.90	21.61	21.56	21.65	
20	64QAM	50	24	21.81	21.91	21.58	21.55	21.64	22
20	64QAM	50	50	21.81	21.91	21.58	21.55	21.63	
20	64QAM	100	0	21.80	21.91	21.60	21.58	21.65	
20	256QAM	1	0	21.02	20.68	20.56	20.71	20.73	21
20	256QAM	1	49	20.98	20.66	20.51	20.65	20.59	
20	256QAM	1	99	20.89	20.63	20.37	20.59	20.51	
20	256QAM	50	0	19.74	19.63	19.56	19.51	19.50	21
20	256QAM	50	24	19.71	19.59	19.52	19.49	19.48	
20	256QAM	50	50	19.66	19.57	19.45	19.47	19.44	
20	256QAM	100	0	19.64	19.53	19.43	19.43	19.43	
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	25.74	25.78	25.56	25.50	25.59	25.80
15	QPSK	1	37	25.51	25.59	25.42	25.36	25.44	
15	QPSK	1	74	25.71	25.74	25.54	25.51	25.57	
15	QPSK	36	0	23.80	23.84	23.60	23.57	23.64	25
15	QPSK	36	20	23.80	23.83	23.59	23.57	23.65	
15	QPSK	36	39	23.79	23.84	23.59	23.58	23.64	
15	QPSK	75	0	23.81	23.83	23.59	23.56	23.63	25.8
15	16QAM	1	0	25.14	25.23	25.11	24.89	24.93	
15	16QAM	1	37	25.10	25.19	24.81	24.87	24.75	
15	16QAM	1	74	25.20	25.20	24.83	24.92	24.80	23.5
15	16QAM	36	0	22.35	22.30	22.12	22.03	22.16	
15	16QAM	36	20	22.33	22.30	22.08	22.03	22.13	
15	16QAM	36	39	22.31	22.35	22.09	22.05	22.13	25
15	16QAM	75	0	22.37	22.34	22.12	22.05	22.15	
15	64QAM	1	0	24.15	24.07	23.89	23.79	23.90	
15	64QAM	1	37	24.04	24.02	23.70	23.72	23.65	23
15	64QAM	1	74	24.17	24.12	23.87	23.87	23.84	
15	64QAM	36	0	21.83	21.81	21.61	21.54	21.63	
15	64QAM	36	20	21.82	21.82	21.60	21.52	21.61	22
15	64QAM	36	39	21.81	21.82	21.60	21.55	21.63	
15	64QAM	75	0	21.84	21.83	21.60	21.54	21.62	
15	256QAM	1	0	20.97	20.62	20.46	20.71	20.65	21
15	256QAM	1	37	20.92	20.65	20.47	20.65	20.57	
15	256QAM	1	74	20.86	20.62	20.27	20.49	20.50	
15	256QAM	36	0	19.73	19.61	19.50	19.45	19.45	
15	256QAM	36	20	19.69	19.50	19.51	19.42	19.38	
15	256QAM	36	39	19.56	19.52	19.45	19.42	19.36	
15	256QAM	75	0	19.59	19.53	19.35	19.40	19.42	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.67	25.68	25.47	25.45	25.57	25.80
10	QPSK	1	25	25.68	25.71	25.47	25.47	25.54	
10	QPSK	1	49	25.72	25.74	25.49	25.51	25.60	
10	QPSK	25	0	23.82	23.81	23.59	23.59	23.70	25
10	QPSK	25	12	23.81	23.81	23.58	23.55	23.69	
10	QPSK	25	25	23.81	23.82	23.58	23.58	23.70	
10	QPSK	50	0	23.76	23.82	23.56	23.59	23.72	25.8
10	16QAM	1	0	25.25	25.20	25.07	24.97	25.07	
10	16QAM	1	25	25.08	25.07	24.84	24.88	24.88	
10	16QAM	1	49	25.19	25.18	24.94	24.95	24.96	23.5
10	16QAM	25	0	22.42	22.36	22.17	22.17	22.28	
10	16QAM	25	12	22.42	22.38	22.15	22.12	22.21	
10	16QAM	25	25	22.44	22.36	22.16	22.13	22.20	25
10	16QAM	50	0	22.27	22.32	22.08	22.09	22.21	
10	64QAM	1	0	23.93	23.91	23.72	23.71	23.81	
10	64QAM	1	25	23.92	23.83	23.66	23.63	23.51	23
10	64QAM	1	49	24.00	23.94	23.73	23.73	23.52	
10	64QAM	25	0	21.91	21.80	21.65	21.61	21.69	
10	64QAM	25	12	21.90	21.79	21.62	21.60	21.65	22
10	64QAM	25	25	21.89	21.80	21.64	21.61	21.69	
10	64QAM	50	0	21.82	21.81	21.59	21.62	21.71	
10	256QAM	1	0	20.83	20.61	20.37	20.71	20.64	21
10	256QAM	1	25	20.80	20.57	20.40	20.57	20.50	
10	256QAM	1	49	20.69	20.56	20.25	20.41	20.47	
10	256QAM	25	0	19.58	19.54	19.40	19.40	19.37	21
10	256QAM	25	12	19.58	19.40	19.41	19.41	19.37	
10	256QAM	25	25	19.36	19.46	19.39	19.42	19.33	
10	256QAM	50	0	19.43	19.49	19.31	19.40	19.36	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.77	25.72	25.60	25.59	25.66	25.80
5	QPSK	1	12	25.69	25.56	25.44	25.30	25.54	
5	QPSK	1	24	25.75	25.73	25.59	25.59	25.67	
5	QPSK	12	0	23.93	24.00	23.75	23.74	23.83	25
5	QPSK	12	7	23.96	23.99	23.72	23.70	23.81	
5	QPSK	12	13	23.93	23.98	23.73	23.71	23.79	
5	QPSK	25	0	23.93	23.99	23.74	23.74	23.79	25.8
5	16QAM	1	0	25.08	25.22	25.01	24.89	25.00	
5	16QAM	1	12	24.96	25.22	24.80	24.95	24.88	
5	16QAM	1	24	25.35	25.40	24.96	25.17	24.99	23.5
5	16QAM	12	0	22.41	22.42	22.29	22.14	22.33	
5	16QAM	12	7	22.38	22.48	22.29	22.24	22.33	
5	16QAM	12	13	22.48	22.47	22.28	22.23	22.32	25
5	16QAM	25	0	22.60	22.53	22.29	22.26	22.35	
5	64QAM	1	0	24.20	24.12	23.95	24.01	23.96	
5	64QAM	1	12	23.90	23.84	23.88	23.86	23.84	23
5	64QAM	1	24	24.09	24.11	23.95	23.91	23.98	
5	64QAM	12	0	21.99	22.02	21.80	21.75	21.82	
5	64QAM	12	7	21.97	21.92	21.81	21.71	21.82	22
5	64QAM	12	13	21.99	21.97	21.79	21.73	21.84	
5	64QAM	25	0	21.99	21.95	21.77	21.70	21.77	
5	256QAM	1	0	20.67	20.52	20.32	20.70	20.57	21
5	256QAM	1	12	20.71	20.48	20.37	20.52	20.43	
5	256QAM	1	24	20.62	20.54	20.20	20.38	20.42	
5	256QAM	12	0	19.49	19.44	19.30	19.31	19.29	21
5	256QAM	12	7	19.48	19.32	19.40	19.37	19.29	
5	256QAM	12	13	19.34	19.43	19.36	19.41	19.28	
5	256QAM	25	0	19.30	19.43	19.26	19.36	19.30	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.02	25.03	24.87	24.88	24.88	26.7
20	QPSK	1	49	25.00	25.02	24.86	24.87	24.87	
20	QPSK	1	99	25.00	24.98	24.80	24.82	24.81	
20	QPSK	50	0	24.53	24.55	24.34	24.32	24.38	25.5
20	QPSK	50	24	24.50	24.49	24.33	24.35	24.38	
20	QPSK	50	50	24.50	24.51	24.33	24.34	24.36	
20	QPSK	100	0	24.53	24.54	24.33	24.33	24.38	26.5
20	16QAM	1	0	25.61	25.48	25.46	25.36	25.45	
20	16QAM	1	49	25.55	25.44	25.29	25.30	25.30	
20	16QAM	1	99	25.69	25.58	25.39	25.11	25.07	24
20	16QAM	50	0	23.08	22.99	22.83	22.82	22.86	
20	16QAM	50	24	23.04	22.98	22.82	22.82	22.86	
20	16QAM	50	50	23.08	23.00	22.82	22.81	22.83	25.5
20	16QAM	100	0	23.10	23.01	22.85	22.86	22.89	
20	64QAM	1	0	24.70	24.46	24.41	24.41	24.32	
20	64QAM	1	49	24.63	24.47	24.34	24.31	24.33	23.5
20	64QAM	1	99	24.60	24.43	24.25	24.26	24.25	
20	64QAM	50	0	22.59	22.49	22.33	22.34	22.38	
20	64QAM	50	24	22.55	22.44	22.31	22.30	22.33	22.5
20	64QAM	50	50	22.58	22.46	22.30	22.29	22.33	
20	64QAM	100	0	22.58	22.48	22.33	22.33	22.36	
20	256QAM	1	0	21.70	21.75	21.55	21.59	21.41	21.5
20	256QAM	1	49	21.69	21.68	21.59	21.43	21.37	
20	256QAM	1	99	21.58	21.60	21.31	21.36	21.28	
20	256QAM	50	0	20.53	20.50	20.31	20.35	20.33	21.5
20	256QAM	50	24	20.52	20.51	20.28	20.27	20.27	
20	256QAM	50	50	20.47	20.44	20.22	20.25	20.24	
20	256QAM	100	0	20.43	20.41	20.24	20.22	20.22	
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	24.92	24.96	24.85	24.78	24.78	26.70
15	QPSK	1	37	24.91	25.00	24.84	24.82	24.81	
15	QPSK	1	74	24.92	24.94	24.78	24.76	24.72	
15	QPSK	36	0	24.49	24.53	24.29	24.28	24.36	25.5
15	QPSK	36	20	24.44	24.48	24.29	24.30	24.35	
15	QPSK	36	39	24.40	24.46	24.24	24.26	24.33	
15	QPSK	75	0	24.49	24.46	24.29	24.32	24.36	26.5
15	16QAM	1	0	25.59	25.40	25.46	25.31	25.40	
15	16QAM	1	37	25.52	25.42	25.21	25.28	25.25	
15	16QAM	1	74	25.61	25.58	25.31	25.09	25.04	24
15	16QAM	36	0	23.08	22.96	22.76	22.80	22.84	
15	16QAM	36	20	22.94	22.88	22.76	22.79	22.83	
15	16QAM	36	39	23.03	22.98	22.77	22.76	22.73	25.5
15	16QAM	75	0	23.03	22.95	22.76	22.82	22.87	
15	64QAM	1	0	24.60	24.36	24.41	24.39	24.23	
15	64QAM	1	37	24.60	24.43	24.31	24.30	24.27	23.5
15	64QAM	1	74	24.51	24.34	24.24	24.18	24.15	
15	64QAM	36	0	22.54	22.40	22.26	22.29	22.33	
15	64QAM	36	20	22.51	22.42	22.25	22.22	22.29	22.5
15	64QAM	36	39	22.50	22.40	22.21	22.29	22.31	
15	64QAM	75	0	22.51	22.40	22.33	22.25	22.32	
15	256QAM	1	0	21.62	21.65	21.45	21.57	21.32	21.5
15	256QAM	1	37	21.64	21.61	21.52	21.33	21.28	
15	256QAM	1	74	21.53	21.60	21.23	21.28	21.18	
15	256QAM	36	0	20.44	20.50	20.29	20.33	20.28	21.5
15	256QAM	36	20	20.46	20.48	20.28	20.27	20.22	
15	256QAM	36	39	20.44	20.35	20.22	20.16	20.24	
15	256QAM	75	0	20.35	20.33	20.15	20.20	20.15	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.98	25.00	24.83	24.82	24.81	26.70
10	QPSK	1	25	24.92	24.98	24.86	24.87	24.83	
10	QPSK	1	49	24.90	24.96	24.72	24.81	24.78	
10	QPSK	25	0	24.49	24.49	24.31	24.26	24.34	25.5
10	QPSK	25	12	24.50	24.47	24.33	24.29	24.37	
10	QPSK	25	25	24.41	24.50	24.31	24.32	24.27	
10	QPSK	50	0	24.45	24.51	24.31	24.29	24.37	26.5
10	16QAM	1	0	25.60	25.48	25.44	25.31	25.40	
10	16QAM	1	25	25.48	25.43	25.28	25.23	25.22	
10	16QAM	1	49	25.62	25.52	25.37	25.01	25.07	24
10	16QAM	25	0	23.06	22.99	22.73	22.73	22.80	
10	16QAM	25	12	22.95	22.92	22.74	22.82	22.82	
10	16QAM	25	25	23.06	22.96	22.75	22.80	22.80	25.5
10	16QAM	50	0	23.02	22.91	22.75	22.77	22.83	
10	64QAM	1	0	24.61	24.40	24.32	24.38	24.32	
10	64QAM	1	25	24.60	24.40	24.30	24.23	24.26	23.5
10	64QAM	1	49	24.58	24.40	24.21	24.23	24.22	
10	64QAM	25	0	22.52	22.42	22.26	22.32	22.34	
10	64QAM	25	12	22.53	22.44	22.30	22.22	22.23	22.5
10	64QAM	25	25	22.56	22.46	22.23	22.28	22.33	
10	64QAM	50	0	22.51	22.38	22.32	22.31	22.33	
10	256QAM	1	0	21.68	21.69	21.46	21.58	21.40	21.5
10	256QAM	1	25	21.64	21.58	21.51	21.41	21.28	
10	256QAM	1	49	21.54	21.55	21.21	21.28	21.26	
10	256QAM	25	0	20.48	20.45	20.30	20.32	20.24	21.5
10	256QAM	25	12	20.48	20.42	20.22	20.22	20.19	
10	256QAM	25	25	20.41	20.40	20.15	20.16	20.19	
10	256QAM	50	0	20.36	20.37	20.19	20.14	20.15	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.98	25.00	24.79	24.81	24.87	26.70
5	QPSK	1	12	24.98	24.95	24.81	24.83	24.78	
5	QPSK	1	24	24.99	24.93	24.70	24.76	24.71	
5	QPSK	12	0	24.48	24.49	24.28	24.22	24.34	25.5
5	QPSK	12	7	24.40	24.45	24.23	24.33	24.30	
5	QPSK	12	13	24.50	24.49	24.31	24.25	24.26	
5	QPSK	25	0	24.43	24.48	24.23	24.33	24.37	26.5
5	16QAM	1	0	25.59	25.40	25.42	25.27	25.35	
5	16QAM	1	12	25.50	25.38	25.21	25.28	25.25	
5	16QAM	1	24	25.65	25.57	25.34	25.10	24.98	24
5	16QAM	12	0	23.08	22.97	22.74	22.78	22.77	
5	16QAM	12	7	22.96	22.88	22.74	22.82	22.78	
5	16QAM	12	13	23.00	22.92	22.78	22.72	22.77	25.5
5	16QAM	25	0	23.01	22.97	22.76	22.79	22.80	
5	64QAM	1	0	24.61	24.46	24.32	24.38	24.27	
5	64QAM	1	12	24.59	24.38	24.26	24.21	24.28	23.5
5	64QAM	1	24	24.55	24.34	24.19	24.24	24.21	
5	64QAM	12	0	22.55	22.48	22.31	22.26	22.35	
5	64QAM	12	7	22.52	22.44	22.21	22.21	22.26	22.5
5	64QAM	12	13	22.56	22.42	22.25	22.24	22.33	
5	64QAM	25	0	22.49	22.40	22.24	22.31	22.32	
5	256QAM	1	0	21.66	21.66	21.47	21.51	21.36	21.5
5	256QAM	1	12	21.65	21.67	21.58	21.42	21.28	
5	256QAM	1	24	21.54	21.53	21.24	21.31	21.22	
5	256QAM	12	0	20.48	20.45	20.29	20.26	20.32	21.5
5	256QAM	12	7	20.44	20.41	20.22	20.26	20.17	
5	256QAM	12	13	20.41	20.42	20.18	20.22	20.24	
5	256QAM	25	0	20.41	20.38	20.20	20.22	20.12	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.47	24.48	24.27	24.37	24.31	24.7
20	QPSK	1	49	24.45	24.42	24.26	24.35	24.29	
20	QPSK	1	99	24.42	24.45	24.20	24.28	24.22	
20	QPSK	50	0	24.47	24.48	24.29	24.24	24.31	24.7
20	QPSK	50	24	24.45	24.40	24.28	24.23	24.31	
20	QPSK	50	50	24.40	24.42	24.26	24.22	24.29	
20	QPSK	100	0	24.53	24.47	24.31	24.28	24.29	24.7
20	16QAM	1	0	24.58	24.46	24.39	24.35	24.37	
20	16QAM	1	49	24.52	24.34	24.24	24.23	24.27	
20	16QAM	1	99	24.62	24.53	24.30	24.02	24.01	24
20	16QAM	50	0	23.04	22.90	22.74	22.82	22.80	
20	16QAM	50	24	23.02	22.92	22.76	22.73	22.84	
20	16QAM	50	50	22.98	22.98	22.78	22.74	22.78	24.7
20	16QAM	100	0	23.08	22.94	22.75	22.79	22.81	
20	64QAM	1	0	24.13	23.96	23.91	23.88	23.78	
20	64QAM	1	49	24.13	23.88	23.74	23.78	23.81	23.5
20	64QAM	1	99	24.05	23.88	23.70	23.70	23.69	
20	64QAM	50	0	22.49	22.49	22.23	22.29	22.29	
20	64QAM	50	24	22.52	22.39	22.29	22.26	22.24	22.5
20	64QAM	50	50	22.55	22.44	22.23	22.19	22.24	
20	64QAM	100	0	22.50	22.39	22.30	22.31	22.26	
20	256QAM	1	0	21.61	21.70	21.49	21.51	21.35	21.5
20	256QAM	1	49	21.59	21.59	21.49	21.41	21.34	
20	256QAM	1	99	21.55	21.53	21.26	21.30	21.23	
20	256QAM	50	0	20.45	20.47	20.21	20.34	20.28	21.5
20	256QAM	50	24	20.45	20.46	20.25	20.19	20.21	
20	256QAM	50	50	20.43	20.39	20.20	20.16	20.21	
20	256QAM	100	0	20.41	20.35	20.19	20.17	20.21	
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	24.32	24.36	24.25	24.20	24.23	24.70
15	QPSK	1	37	24.36	24.46	24.28	24.30	24.28	
15	QPSK	1	74	24.40	24.43	24.18	24.26	24.14	
15	QPSK	36	0	24.48	24.51	24.19	24.21	24.36	24.7
15	QPSK	36	20	24.35	24.43	24.25	24.21	24.30	
15	QPSK	36	39	24.33	24.36	24.15	24.21	24.23	
15	QPSK	75	0	24.39	24.38	24.27	24.29	24.31	24.7
15	16QAM	1	0	24.58	24.39	24.37	24.31	24.36	
15	16QAM	1	37	24.44	24.34	24.14	24.20	24.25	
15	16QAM	1	74	24.53	24.53	24.31	23.99	23.95	24
15	16QAM	36	0	23.00	22.87	22.67	22.71	22.80	
15	16QAM	36	20	22.86	22.84	22.68	22.75	22.80	
15	16QAM	36	39	22.98	22.93	22.73	22.76	22.69	24.7
15	16QAM	75	0	22.97	22.93	22.72	22.74	22.79	
15	64QAM	1	0	24.03	23.82	23.88	23.83	23.71	
15	64QAM	1	37	24.04	23.91	23.71	23.71	23.77	23.5
15	64QAM	1	74	23.99	23.81	23.74	23.68	23.65	
15	64QAM	36	0	22.52	22.38	22.19	22.22	22.25	
15	64QAM	36	20	22.41	22.38	22.19	22.16	22.21	22.5
15	64QAM	36	39	22.45	22.32	22.11	22.19	22.25	
15	64QAM	75	0	22.41	22.40	22.30	22.21	22.30	
15	256QAM	1	0	21.53	21.60	21.44	21.57	21.24	22.5
15	256QAM	1	37	21.57	21.53	21.52	21.25	21.24	
15	256QAM	1	74	21.53	21.54	21.13	21.21	21.18	
15	256QAM	36	0	20.35	20.44	20.25	20.33	20.19	21.5
15	256QAM	36	20	20.43	20.38	20.26	20.19	20.18	
15	256QAM	36	39	20.39	20.35	20.17	20.14	20.16	
15	256QAM	75	0	20.29	20.27	20.05	20.11	20.07	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	24.41	24.44	24.24	24.32	24.23	24.70
10	QPSK	1	25	24.33	24.43	24.27	24.32	24.23	
10	QPSK	1	49	24.37	24.36	24.18	24.30	24.23	
10	QPSK	25	0	24.43	24.45	24.22	24.18	24.34	24.7
10	QPSK	25	12	24.41	24.44	24.25	24.26	24.33	
10	QPSK	25	25	24.35	24.45	24.25	24.31	24.19	
10	QPSK	50	0	24.35	24.51	24.21	24.20	24.37	24.7
10	16QAM	1	0	24.57	24.42	24.36	24.24	24.32	
10	16QAM	1	25	24.43	24.42	24.22	24.13	24.20	
10	16QAM	1	49	24.54	24.49	24.37	23.99	24.03	24
10	16QAM	25	0	22.98	22.92	22.64	22.63	22.78	
10	16QAM	25	12	22.90	22.90	22.73	22.79	22.76	
10	16QAM	25	25	22.97	22.87	22.66	22.70	22.76	24.7
10	16QAM	50	0	23.00	22.85	22.65	22.77	22.73	
10	64QAM	1	0	24.05	23.86	23.78	23.80	23.74	
10	64QAM	1	25	24.10	23.82	23.71	23.67	23.68	23.5
10	64QAM	1	49	24.06	23.84	23.61	23.69	23.72	
10	64QAM	25	0	22.43	22.40	22.20	22.25	22.25	
10	64QAM	25	12	22.48	22.39	22.23	22.12	22.16	22.5
10	64QAM	25	25	22.55	22.46	22.19	22.28	22.30	
10	64QAM	50	0	22.51	22.29	22.24	22.26	22.25	
10	256QAM	1	0	21.64	21.66	21.36	21.52	21.35	21.5
10	256QAM	1	25	21.60	21.57	21.47	21.34	21.21	
10	256QAM	1	49	21.48	21.49	21.16	21.21	21.25	
10	256QAM	25	0	20.41	20.36	20.22	20.25	20.24	21.5
10	256QAM	25	12	20.45	20.32	20.13	20.19	20.14	
10	256QAM	25	25	20.37	20.38	20.09	20.13	20.09	
10	256QAM	50	0	20.32	20.27	20.15	20.09	20.13	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	24.48	24.48	24.26	24.21	24.35	24.70
5	QPSK	1	12	24.41	24.35	24.27	24.25	24.22	
5	QPSK	1	24	24.39	24.35	24.16	24.23	24.11	
5	QPSK	12	0	24.40	24.41	24.20	24.16	24.29	24.7
5	QPSK	12	7	24.34	24.40	24.19	24.25	24.26	
5	QPSK	12	13	24.43	24.45	24.24	24.16	24.26	
5	QPSK	25	0	24.35	24.38	24.23	24.23	24.31	24.7
5	16QAM	1	0	24.57	24.37	24.40	24.26	24.28	
5	16QAM	1	12	24.42	24.34	24.17	24.20	24.23	
5	16QAM	1	24	24.56	24.57	24.33	24.05	23.92	24
5	16QAM	12	0	23.08	22.95	22.70	22.70	22.73	
5	16QAM	12	7	22.89	22.83	22.65	22.73	22.73	
5	16QAM	12	13	22.98	22.87	22.75	22.67	22.68	24.7
5	16QAM	25	0	22.97	22.90	22.71	22.76	22.71	
5	64QAM	1	0	24.61	24.44	24.31	24.31	24.21	
5	64QAM	1	12	24.53	24.28	24.18	24.15	24.26	23.5
5	64QAM	1	24	24.49	24.32	24.12	24.18	24.20	
5	64QAM	12	0	22.46	22.45	22.30	22.19	22.33	
5	64QAM	12	7	22.43	22.34	22.11	22.17	22.22	22.5
5	64QAM	12	13	22.53	22.42	22.16	22.19	22.25	
5	64QAM	25	0	22.46	22.37	22.16	22.23	22.32	
5	256QAM	1	0	21.60	21.64	21.45	21.43	21.30	21.5
5	256QAM	1	12	21.55	21.67	21.52	21.35	21.21	
5	256QAM	1	24	21.53	21.52	21.16	21.27	21.16	
5	256QAM	12	0	20.41	20.35	20.27	20.20	20.24	21.5
5	256QAM	12	7	20.39	20.34	20.14	20.25	20.15	
5	256QAM	12	13	20.33	20.42	20.18	20.20	20.20	
5	256QAM	25	0	20.39	20.37	20.15	20.19	20.06	





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.22	22.23	21.99	21.96	22.03	22.5
20	QPSK	1	49	22.20	22.16	21.98	21.96	22.02	
20	QPSK	1	99	22.22	22.15	21.95	21.96	21.98	
20	QPSK	50	0	22.18	22.21	22.02	22.03	22.06	22.5
20	QPSK	50	24	22.20	22.17	22.00	22.01	22.04	
20	QPSK	50	50	22.22	22.18	22.00	22.03	22.03	
20	QPSK	100	0	22.21	22.22	21.99	22.01	22.05	22.5
20	16QAM	1	0	22.48	22.27	22.21	22.17	22.22	
20	16QAM	1	49	22.31	22.11	22.00	21.95	22.02	
20	16QAM	1	99	22.45	22.26	22.03	22.03	22.03	22.5
20	16QAM	50	0	22.27	22.11	22.02	21.99	22.04	
20	16QAM	50	24	22.27	22.11	22.03	22.05	22.07	
20	16QAM	50	50	22.27	22.13	22.03	22.04	22.05	22.5
20	16QAM	100	0	22.27	22.20	22.01	22.02	22.04	
20	64QAM	1	0	22.32	22.33	21.91	21.97	22.03	
20	64QAM	1	49	22.26	22.24	22.00	21.98	22.04	22.5
20	64QAM	1	99	22.15	22.15	21.92	21.92	21.93	
20	64QAM	50	0	22.25	22.18	22.04	22.02	22.08	
20	64QAM	50	24	22.26	22.17	22.04	22.04	22.07	22.5
20	64QAM	50	50	22.25	22.17	22.03	22.05	22.07	
20	64QAM	100	0	22.28	22.17	22.03	22.02	22.04	
20	256QAM	1	0	21.70	21.75	21.51	21.56	21.40	22.5
20	256QAM	1	49	21.61	21.60	21.56	21.43	21.22	
20	256QAM	1	99	21.55	21.57	21.29	21.34	21.19	
20	256QAM	50	0	20.46	20.50	20.31	20.28	20.25	21.5
20	256QAM	50	24	20.41	20.55	20.19	20.28	20.26	
20	256QAM	50	50	20.49	20.43	20.18	20.26	20.24	
20	256QAM	100	0	20.34	20.47	20.14	20.18	20.21	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.17	22.17	21.96	21.87	21.94	22.50
15	QPSK	1	37	22.14	22.08	21.88	21.89	21.97	
15	QPSK	1	74	22.15	22.12	21.90	21.92	21.94	
15	QPSK	36	0	22.09	22.18	21.93	21.94	22.02	22.5
15	QPSK	36	20	22.18	22.11	21.96	21.92	21.97	
15	QPSK	36	39	22.16	22.10	21.97	22.03	22.00	
15	QPSK	75	0	22.17	22.21	21.98	21.99	22.01	22.5
15	16QAM	1	0	22.40	22.23	22.17	22.09	22.12	
15	16QAM	1	37	22.26	22.04	22.00	21.85	21.94	
15	16QAM	1	74	22.35	22.23	22.02	21.96	21.94	22.5
15	16QAM	36	0	22.20	22.04	21.93	21.98	21.97	
15	16QAM	36	20	22.25	22.11	22.02	21.98	22.05	
15	16QAM	36	39	22.26	22.09	21.93	21.99	21.98	22.5
15	16QAM	75	0	22.19	22.11	22.00	21.97	22.01	
15	64QAM	1	0	22.24	22.32	21.89	21.96	22.00	
15	64QAM	1	37	22.19	22.19	21.93	21.93	22.00	22.5
15	64QAM	1	74	22.11	22.11	21.89	21.82	21.85	
15	64QAM	36	0	22.17	22.12	22.01	22.01	22.03	
15	64QAM	36	20	22.20	22.12	21.98	22.02	22.00	22.5
15	64QAM	36	39	22.20	22.10	21.99	21.99	22.05	
15	64QAM	75	0	22.23	22.07	21.94	21.98	22.00	
15	256QAM	1	0	21.60	21.66	21.49	21.54	21.31	22.5
15	256QAM	1	37	21.51	21.58	21.56	21.35	21.18	
15	256QAM	1	74	21.49	21.57	21.27	21.29	21.18	
15	256QAM	36	0	20.43	20.43	20.24	20.18	20.21	21.5
15	256QAM	36	20	20.33	20.50	20.14	20.28	20.25	
15	256QAM	36	39	20.48	20.41	20.17	20.23	20.15	
15	256QAM	75	0	20.29	20.44	20.04	20.08	20.15	



# FCC SAR TEST REPORT

Report No. : FA380306C

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	22.21	22.16	21.99	21.93	21.94	22.50
10	QPSK	1	25	22.19	22.13	21.95	21.94	22.01	
10	QPSK	1	49	22.18	22.06	21.87	21.89	21.96	
10	QPSK	25	0	22.13	22.13	21.97	21.98	22.04	22.5
10	QPSK	25	12	22.20	22.17	21.94	22.01	21.98	
10	QPSK	25	25	22.20	22.11	21.91	22.02	21.96	
10	QPSK	50	0	22.13	22.19	21.93	21.91	22.04	22.5
10	16QAM	1	0	22.41	22.27	22.12	22.12	22.18	
10	16QAM	1	25	22.23	22.06	21.97	21.90	22.00	
10	16QAM	1	49	22.39	22.19	22.00	21.99	22.01	22.5
10	16QAM	25	0	22.20	22.06	21.97	21.89	21.97	
10	16QAM	25	12	22.22	22.03	22.03	21.98	21.98	
10	16QAM	25	25	22.17	22.10	21.97	21.94	22.04	22.5
10	16QAM	50	0	22.22	22.15	22.00	21.96	21.94	
10	64QAM	1	0	22.28	22.33	21.88	21.89	22.01	
10	64QAM	1	25	22.21	22.21	21.95	21.91	21.95	22.5
10	64QAM	1	49	22.10	22.09	21.86	21.87	21.88	
10	64QAM	25	0	22.19	22.17	22.00	22.02	22.07	
10	64QAM	25	12	22.20	22.15	21.95	21.95	22.07	22.5
10	64QAM	25	25	22.21	22.09	21.95	21.99	22.05	
10	64QAM	50	0	22.19	22.16	22.02	22.02	21.98	
10	256QAM	1	0	21.60	21.73	21.51	21.46	21.39	22.5
10	256QAM	1	25	21.52	21.59	21.52	21.35	21.16	
10	256QAM	1	49	21.52	21.48	21.22	21.26	21.19	
10	256QAM	25	0	20.41	20.44	20.25	20.24	20.24	21.5
10	256QAM	25	12	20.38	20.45	20.14	20.27	20.21	
10	256QAM	25	25	20.45	20.38	20.12	20.26	20.22	
10	256QAM	50	0	20.26	20.42	20.08	20.09	20.13	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	22.18	22.23	21.93	21.94	21.95	22.50
5	QPSK	1	12	22.11	22.14	21.91	21.91	21.94	
5	QPSK	1	24	22.14	22.12	21.89	21.96	21.93	
5	QPSK	12	0	22.12	22.13	21.97	21.93	22.00	22.5
5	QPSK	12	7	22.19	22.08	21.99	21.95	22.01	
5	QPSK	12	13	22.21	22.10	21.92	21.93	21.99	
5	QPSK	25	0	22.14	22.20	21.89	21.98	22.03	22.5
5	16QAM	1	0	22.45	22.19	22.21	22.15	22.21	
5	16QAM	1	12	22.28	22.06	21.91	21.87	21.93	
5	16QAM	1	24	22.42	22.16	22.03	21.96	21.94	22.5
5	16QAM	12	0	22.21	22.09	22.01	21.90	22.02	
5	16QAM	12	7	22.21	22.07	22.03	21.98	22.03	
5	16QAM	12	13	22.19	22.03	21.95	22.04	22.02	22.5
5	16QAM	25	0	22.18	22.12	21.99	21.96	22.02	
5	64QAM	1	0	22.23	22.31	21.85	21.88	21.99	
5	64QAM	1	12	22.18	22.22	21.96	21.91	22.00	22.5
5	64QAM	1	24	22.09	22.10	21.86	21.82	21.88	
5	64QAM	12	0	22.22	22.12	21.97	22.00	22.02	
5	64QAM	12	7	22.16	22.15	22.02	22.01	21.97	22.5
5	64QAM	12	13	22.19	22.10	21.99	21.98	22.04	
5	64QAM	25	0	22.20	22.14	21.97	21.93	22.04	
5	256QAM	1	0	21.65	21.69	21.48	21.54	21.35	22.5
5	256QAM	1	12	21.56	21.59	21.56	21.37	21.15	
5	256QAM	1	24	21.45	21.52	21.24	21.26	21.09	
5	256QAM	12	0	20.46	20.41	20.21	20.19	20.18	21.5
5	256QAM	12	7	20.38	20.55	20.15	20.20	20.23	
5	256QAM	12	13	20.45	20.42	20.18	20.17	20.14	
5	256QAM	25	0	20.34	20.46	20.10	20.14	20.11	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.62	25.63	25.41	25.40	25.47	27.2
20	QPSK	1	49	25.61	25.58	25.40	25.39	25.46	
20	QPSK	1	99	25.60	25.54	25.39	25.40	25.39	
20	QPSK	50	0	24.58	24.59	24.38	24.37	24.44	25.5
20	QPSK	50	24	24.58	24.51	24.37	24.36	24.40	
20	QPSK	50	50	24.50	24.52	24.37	24.37	24.39	
20	QPSK	100	0	24.58	24.59	24.38	24.36	24.40	26.5
20	16QAM	1	0	25.81	25.70	25.61	25.34	25.44	
20	16QAM	1	49	25.89	25.27	25.18	25.17	25.17	
20	16QAM	1	99	25.59	25.46	25.30	25.34	25.27	24
20	16QAM	50	0	23.10	23.06	22.88	22.89	22.93	
20	16QAM	50	24	23.12	23.00	22.89	22.88	22.90	
20	16QAM	50	50	23.12	23.05	22.88	22.87	22.90	25.5
20	16QAM	100	0	23.12	23.06	22.90	22.86	22.95	
20	64QAM	1	0	24.71	24.70	24.47	24.42	24.52	
20	64QAM	1	49	24.92	24.80	24.65	24.62	24.65	23.5
20	64QAM	1	99	24.82	24.69	24.52	24.55	24.49	
20	64QAM	50	0	22.62	22.70	22.38	22.37	22.42	
20	64QAM	50	24	22.63	22.54	22.38	22.39	22.43	22.5
20	64QAM	50	50	22.63	22.54	22.40	22.40	22.44	
20	64QAM	100	0	22.61	22.51	22.39	22.36	22.41	
20	256QAM	1	0	21.71	21.75	21.58	21.57	21.43	21.5
20	256QAM	1	49	21.68	21.70	21.58	21.49	21.32	
20	256QAM	1	99	21.64	21.58	21.32	21.43	21.25	
20	256QAM	50	0	20.52	20.55	20.36	20.29	20.34	22.5
20	256QAM	50	24	20.50	20.57	20.29	20.34	20.33	
20	256QAM	50	50	20.50	20.49	20.24	20.29	20.30	
20	256QAM	100	0	20.43	20.49	20.22	20.27	20.23	
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	25.55	25.56	25.39	25.34	25.45	27.20
15	QPSK	1	37	25.52	25.51	25.32	25.36	25.42	
15	QPSK	1	74	25.52	25.50	25.31	25.32	25.35	
15	QPSK	36	0	24.58	24.58	24.34	24.33	24.41	25.5
15	QPSK	36	20	24.49	24.51	24.34	24.29	24.33	
15	QPSK	36	39	24.40	24.51	24.34	24.28	24.31	
15	QPSK	75	0	24.52	24.51	24.35	24.28	24.33	26.5
15	16QAM	1	0	25.80	25.68	25.60	25.31	25.41	
15	16QAM	1	37	25.87	25.22	25.15	25.16	25.10	
15	16QAM	1	74	25.57	25.40	25.24	25.32	25.18	24
15	16QAM	36	0	23.07	22.99	22.84	22.85	22.93	
15	16QAM	36	20	23.02	22.90	22.81	22.79	22.81	
15	16QAM	36	39	23.04	23.03	22.83	22.79	22.88	25.5
15	16QAM	75	0	23.07	23.04	22.86	22.76	22.87	
15	64QAM	1	0	24.63	24.70	24.46	24.42	24.47	
15	64QAM	1	37	24.85	24.76	24.60	24.52	24.63	23.5
15	64QAM	1	74	24.73	24.68	24.48	24.54	24.48	
15	64QAM	36	0	22.58	22.60	22.33	22.28	22.32	
15	64QAM	36	20	22.56	22.44	22.28	22.29	22.41	22.5
15	64QAM	36	39	22.55	22.47	22.36	22.34	22.40	
15	64QAM	75	0	22.59	22.49	22.35	22.35	22.40	
15	256QAM	1	0	21.68	21.71	21.55	21.50	21.38	22.5
15	256QAM	1	37	21.63	21.70	21.55	21.42	21.25	
15	256QAM	1	74	21.62	21.49	21.26	21.42	21.15	
15	256QAM	36	0	20.47	20.46	20.29	20.29	20.34	21.5
15	256QAM	36	20	20.43	20.56	20.19	20.25	20.29	
15	256QAM	36	39	20.45	20.40	20.17	20.28	20.30	
15	256QAM	75	0	20.33	20.45	20.21	20.20	20.23	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.55	25.61	25.31	25.35	25.43	27.20
10	QPSK	1	25	25.55	25.53	25.36	25.34	25.44	
10	QPSK	1	49	25.53	25.53	25.34	25.33	25.39	
10	QPSK	25	0	24.49	24.56	24.29	24.28	24.44	25.5
10	QPSK	25	12	24.58	24.46	24.37	24.33	24.39	
10	QPSK	25	25	24.45	24.52	24.37	24.32	24.39	
10	QPSK	50	0	24.49	24.49	24.30	24.30	24.39	26.5
10	16QAM	1	0	25.81	25.60	25.57	25.28	25.36	
10	16QAM	1	25	25.81	25.18	25.10	25.13	25.17	
10	16QAM	1	49	25.55	25.37	25.21	25.24	25.21	24
10	16QAM	25	0	23.02	22.97	22.81	22.86	22.85	
10	16QAM	25	12	23.07	22.95	22.79	22.85	22.81	
10	16QAM	25	25	23.11	22.99	22.81	22.82	22.84	25.5
10	16QAM	50	0	23.03	23.01	22.85	22.84	22.92	
10	64QAM	1	0	24.66	24.69	24.42	24.39	24.51	
10	64QAM	1	25	24.92	24.71	24.63	24.53	24.57	23.5
10	64QAM	1	49	24.73	24.62	24.48	24.47	24.45	
10	64QAM	25	0	22.55	22.63	22.29	22.29	22.37	
10	64QAM	25	12	22.56	22.54	22.35	22.32	22.42	22.5
10	64QAM	25	25	22.58	22.48	22.40	22.35	22.39	
10	64QAM	50	0	22.54	22.41	22.38	22.28	22.37	
10	256QAM	1	0	21.70	21.74	21.51	21.52	21.35	21.5
10	256QAM	1	25	21.63	21.64	21.51	21.42	21.32	
10	256QAM	1	49	21.57	21.48	21.28	21.41	21.23	
10	256QAM	25	0	20.44	20.49	20.30	20.25	20.32	21.5
10	256QAM	25	12	20.50	20.50	20.20	20.29	20.29	
10	256QAM	25	25	20.48	20.41	20.18	20.23	20.24	
10	256QAM	50	0	20.35	20.48	20.13	20.27	20.23	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.60	25.60	25.37	25.35	25.37	27.20
5	QPSK	1	12	25.54	25.52	25.38	25.38	25.45	
5	QPSK	1	24	25.50	25.51	25.35	25.33	25.34	
5	QPSK	12	0	24.57	24.57	24.28	24.28	24.42	25.5
5	QPSK	12	7	24.51	24.44	24.29	24.32	24.32	
5	QPSK	12	13	24.40	24.45	24.29	24.28	24.34	
5	QPSK	25	0	24.54	24.51	24.37	24.29	24.40	26.5
5	16QAM	1	0	25.81	25.63	25.53	25.31	25.41	
5	16QAM	1	12	25.80	25.26	25.09	25.15	25.16	
5	16QAM	1	24	25.50	25.36	25.21	25.34	25.20	24
5	16QAM	12	0	23.06	23.02	22.88	22.87	22.90	
5	16QAM	12	7	23.10	22.90	22.87	22.88	22.87	
5	16QAM	12	13	23.04	23.04	22.81	22.87	22.88	25.5
5	16QAM	25	0	23.11	23.00	22.88	22.82	22.90	
5	64QAM	1	0	24.65	24.65	24.42	24.36	24.51	
5	64QAM	1	12	24.91	24.70	24.65	24.59	24.58	23.5
5	64QAM	1	24	24.75	24.65	24.43	24.51	24.49	
5	64QAM	12	0	22.62	22.62	22.32	22.30	22.42	
5	64QAM	12	7	22.62	22.46	22.36	22.34	22.35	22.5
5	64QAM	12	13	22.62	22.45	22.35	22.34	22.42	
5	64QAM	25	0	22.51	22.43	22.30	22.29	22.32	
5	256QAM	1	0	21.61	21.73	21.53	21.56	21.41	21.5
5	256QAM	1	12	21.62	21.65	21.54	21.48	21.25	
5	256QAM	1	24	21.60	21.57	21.31	21.38	21.20	
5	256QAM	12	0	20.43	20.46	20.31	20.20	20.34	21.5
5	256QAM	12	7	20.47	20.57	20.21	20.24	20.25	
5	256QAM	12	13	20.44	20.47	20.17	20.19	20.26	
5	256QAM	25	0	20.37	20.39	20.12	20.22	20.18	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.62	25.63	25.41	25.40	25.47	26.1
20	QPSK	1	49	25.61	25.58	25.40	25.39	25.46	
20	QPSK	1	99	25.60	25.54	25.39	25.40	25.39	
20	QPSK	50	0	24.58	24.59	24.38	24.37	24.44	25.5
20	QPSK	50	24	24.58	24.51	24.37	24.36	24.40	
20	QPSK	50	50	24.50	24.52	24.37	24.37	24.39	
20	QPSK	100	0	24.58	24.59	24.38	24.36	24.40	26.1
20	16QAM	1	0	25.81	25.70	25.61	25.34	25.44	
20	16QAM	1	49	25.89	25.27	25.18	25.17	25.17	
20	16QAM	1	99	25.59	25.46	25.30	25.34	25.27	24
20	16QAM	50	0	23.10	23.06	22.88	22.89	22.93	
20	16QAM	50	24	23.12	23.00	22.89	22.88	22.90	
20	16QAM	50	50	23.12	23.05	22.88	22.87	22.90	25.5
20	16QAM	100	0	23.12	23.06	22.90	22.86	22.95	
20	64QAM	1	0	24.71	24.70	24.47	24.42	24.52	
20	64QAM	1	49	24.92	24.80	24.65	24.62	24.65	23.5
20	64QAM	1	99	24.82	24.69	24.52	24.55	24.49	
20	64QAM	50	0	22.62	22.70	22.38	22.37	22.42	
20	64QAM	50	24	22.63	22.54	22.38	22.39	22.43	22.5
20	64QAM	50	50	22.63	22.54	22.40	22.40	22.44	
20	64QAM	100	0	22.61	22.51	22.39	22.36	22.41	
20	256QAM	1	0	21.71	21.75	21.58	21.57	21.43	21.5
20	256QAM	1	49	21.68	21.70	21.58	21.49	21.32	
20	256QAM	1	99	21.64	21.58	21.32	21.43	21.25	
20	256QAM	50	0	20.52	20.55	20.36	20.29	20.34	22.5
20	256QAM	50	24	20.50	20.57	20.29	20.34	20.33	
20	256QAM	50	50	20.50	20.49	20.24	20.29	20.30	
20	256QAM	100	0	20.43	20.49	20.22	20.27	20.23	
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	25.55	25.56	25.39	25.34	25.45	26.10
15	QPSK	1	37	25.52	25.51	25.32	25.36	25.42	
15	QPSK	1	74	25.52	25.50	25.31	25.32	25.35	
15	QPSK	36	0	24.58	24.58	24.34	24.33	24.41	25.5
15	QPSK	36	20	24.49	24.51	24.34	24.29	24.33	
15	QPSK	36	39	24.40	24.51	24.34	24.28	24.31	
15	QPSK	75	0	24.52	24.51	24.35	24.28	24.33	26.1
15	16QAM	1	0	25.80	25.68	25.60	25.31	25.41	
15	16QAM	1	37	25.87	25.22	25.15	25.16	25.10	
15	16QAM	1	74	25.57	25.40	25.24	25.32	25.18	24
15	16QAM	36	0	23.07	22.99	22.84	22.85	22.93	
15	16QAM	36	20	23.02	22.90	22.81	22.79	22.81	
15	16QAM	36	39	23.04	23.03	22.83	22.79	22.88	25.5
15	16QAM	75	0	23.07	23.04	22.86	22.76	22.87	
15	64QAM	1	0	24.63	24.70	24.46	24.42	24.47	
15	64QAM	1	37	24.85	24.76	24.60	24.52	24.63	23.5
15	64QAM	1	74	24.73	24.68	24.48	24.54	24.48	
15	64QAM	36	0	22.58	22.60	22.33	22.28	22.32	
15	64QAM	36	20	22.56	22.44	22.28	22.29	22.41	22.5
15	64QAM	36	39	22.55	22.47	22.36	22.34	22.40	
15	64QAM	75	0	22.59	22.49	22.35	22.35	22.40	
15	256QAM	1	0	21.68	21.71	21.55	21.50	21.38	22.5
15	256QAM	1	37	21.63	21.70	21.55	21.42	21.25	
15	256QAM	1	74	21.62	21.49	21.26	21.42	21.15	
15	256QAM	36	0	20.47	20.46	20.29	20.29	20.34	21.5
15	256QAM	36	20	20.43	20.56	20.19	20.25	20.29	
15	256QAM	36	39	20.45	20.40	20.17	20.28	20.30	
15	256QAM	75	0	20.33	20.45	20.21	20.20	20.23	



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Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.55	25.61	25.31	25.35	25.43	26.10
10	QPSK	1	25	25.55	25.53	25.36	25.34	25.44	
10	QPSK	1	49	25.53	25.53	25.34	25.33	25.39	
10	QPSK	25	0	24.49	24.56	24.29	24.28	24.44	25.5
10	QPSK	25	12	24.58	24.46	24.37	24.33	24.39	
10	QPSK	25	25	24.45	24.52	24.37	24.32	24.39	
10	QPSK	50	0	24.49	24.49	24.30	24.30	24.39	26.1
10	16QAM	1	0	25.81	25.60	25.57	25.28	25.36	
10	16QAM	1	25	25.81	25.18	25.10	25.13	25.17	
10	16QAM	1	49	25.55	25.37	25.21	25.24	25.21	24
10	16QAM	25	0	23.02	22.97	22.81	22.86	22.85	
10	16QAM	25	12	23.07	22.95	22.79	22.85	22.81	
10	16QAM	25	25	23.11	22.99	22.81	22.82	22.84	25.5
10	16QAM	50	0	23.03	23.01	22.85	22.84	22.92	
10	64QAM	1	0	24.66	24.69	24.42	24.39	24.51	
10	64QAM	1	25	24.92	24.71	24.63	24.53	24.57	23.5
10	64QAM	1	49	24.73	24.62	24.48	24.47	24.45	
10	64QAM	25	0	22.55	22.63	22.29	22.29	22.37	
10	64QAM	25	12	22.56	22.54	22.35	22.32	22.42	22.5
10	64QAM	25	25	22.58	22.48	22.40	22.35	22.39	
10	64QAM	50	0	22.54	22.41	22.38	22.28	22.37	
10	256QAM	1	0	21.70	21.74	21.51	21.52	21.35	21.5
10	256QAM	1	25	21.63	21.64	21.51	21.42	21.32	
10	256QAM	1	49	21.57	21.48	21.28	21.41	21.23	
10	256QAM	25	0	20.44	20.49	20.30	20.25	20.32	21.5
10	256QAM	25	12	20.50	20.50	20.20	20.29	20.29	
10	256QAM	25	25	20.48	20.41	20.18	20.23	20.24	
10	256QAM	50	0	20.35	20.48	20.13	20.27	20.23	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.60	25.60	25.37	25.35	25.37	26.10
5	QPSK	1	12	25.54	25.52	25.38	25.38	25.45	
5	QPSK	1	24	25.50	25.51	25.35	25.33	25.34	
5	QPSK	12	0	24.57	24.57	24.28	24.28	24.42	25.5
5	QPSK	12	7	24.51	24.44	24.29	24.32	24.32	
5	QPSK	12	13	24.40	24.45	24.29	24.28	24.34	
5	QPSK	25	0	24.54	24.51	24.37	24.29	24.40	26.1
5	16QAM	1	0	25.81	25.63	25.53	25.31	25.41	
5	16QAM	1	12	25.80	25.26	25.09	25.15	25.16	
5	16QAM	1	24	25.50	25.36	25.21	25.34	25.20	24
5	16QAM	12	0	23.06	23.02	22.88	22.87	22.90	
5	16QAM	12	7	23.10	22.90	22.87	22.88	22.87	
5	16QAM	12	13	23.04	23.04	22.81	22.87	22.88	25.5
5	16QAM	25	0	23.11	23.00	22.88	22.82	22.90	
5	64QAM	1	0	24.65	24.65	24.42	24.36	24.51	
5	64QAM	1	12	24.91	24.70	24.65	24.59	24.58	23.5
5	64QAM	1	24	24.75	24.65	24.43	24.51	24.49	
5	64QAM	12	0	22.62	22.62	22.32	22.30	22.42	
5	64QAM	12	7	22.62	22.46	22.36	22.34	22.35	22.5
5	64QAM	12	13	22.62	22.45	22.35	22.34	22.42	
5	64QAM	25	0	22.51	22.43	22.30	22.29	22.32	
5	256QAM	1	0	21.61	21.73	21.53	21.56	21.41	21.5
5	256QAM	1	12	21.62	21.65	21.54	21.48	21.25	
5	256QAM	1	24	21.60	21.57	21.31	21.38	21.20	
5	256QAM	12	0	20.43	20.46	20.31	20.20	20.34	21.5
5	256QAM	12	7	20.47	20.57	20.21	20.24	20.25	
5	256QAM	12	13	20.44	20.47	20.17	20.19	20.26	
5	256QAM	25	0	20.37	20.39	20.12	20.22	20.18	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	24.24	24.22	24.20	24.29	25.7
20	QPSK	1	49	24.21	24.14	24.10	24.19	
20	QPSK	1	99	24.09	24.02	23.99	24.07	
20	QPSK	50	0	22.13	22.13	22.06	22.15	23.7
20	QPSK	50	24	22.08	22.06	21.97	22.10	
20	QPSK	50	50	22.03	22.03	21.91	22.03	
20	QPSK	100	0	22.10	22.11	22.02	22.12	24.7
20	16QAM	1	0	23.40	23.36	23.34	23.44	
20	16QAM	1	49	23.29	23.28	23.26	23.30	
20	16QAM	1	99	23.23	23.21	23.19	23.23	22.7
20	16QAM	50	0	21.17	21.16	21.11	21.21	
20	16QAM	50	24	21.16	21.10	21.02	21.15	
20	16QAM	50	50	21.13	21.05	20.98	21.09	23.7
20	16QAM	100	0	21.14	21.13	21.07	21.18	
20	64QAM	1	0	22.25	22.21	22.06	22.07	
20	64QAM	1	49	22.25	22.21	21.98	22.00	22.7
20	64QAM	1	99	22.12	22.09	21.87	21.98	
20	64QAM	50	0	21.18	21.19	21.12	21.18	
20	64QAM	50	24	21.16	21.11	21.07	21.17	20.7
20	64QAM	50	50	21.12	21.08	21.02	21.09	
20	64QAM	100	0	21.12	21.11	21.10	21.14	
20	256QAM	1	0	19.26	19.00	19.22	19.00	19.7
20	256QAM	1	49	19.23	19.10	19.03	19.07	
20	256QAM	1	99	19.26	19.19	19.19	19.09	
20	256QAM	50	0	18.43	18.30	18.35	18.24	25.7
20	256QAM	50	24	18.39	18.31	18.33	18.23	
20	256QAM	50	50	18.39	18.33	18.33	18.24	
20	256QAM	100	0	18.37	18.25	18.29	18.23	23.7
Channel				55315	55820	56160	56665	
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	24.18	24.14	24.22	24.22	25.7
15	QPSK	1	37	24.03	24.06	23.97	24.11	
15	QPSK	1	74	24.12	24.02	24.05	24.00	
15	QPSK	36	0	22.16	22.16	22.15	22.14	23.7
15	QPSK	36	20	22.10	22.13	22.10	22.08	
15	QPSK	36	39	22.10	22.11	22.07	22.04	
15	QPSK	75	0	22.13	22.12	22.07	22.03	24.7
15	16QAM	1	0	23.30	23.41	23.47	23.32	
15	16QAM	1	37	23.19	23.26	23.40	23.22	
15	16QAM	1	74	23.27	23.18	23.32	23.13	22.7
15	16QAM	36	0	21.21	21.17	21.20	21.18	
15	16QAM	36	20	21.16	21.16	21.17	21.14	
15	16QAM	36	39	21.15	21.15	21.16	21.10	23.7
15	16QAM	75	0	21.19	21.18	21.18	21.15	
15	64QAM	1	0	22.17	22.16	22.23	22.21	
15	64QAM	1	37	22.24	21.93	22.05	22.06	22.7
15	64QAM	1	74	22.11	21.98	22.07	22.08	
15	64QAM	36	0	21.21	21.23	21.28	21.27	
15	64QAM	36	20	21.17	21.17	21.21	21.20	20.7
15	64QAM	36	39	21.18	21.17	21.19	21.19	
15	64QAM	75	0	21.17	21.18	21.17	21.14	
15	256QAM	1	0	19.16	18.94	19.21	18.99	19.7
15	256QAM	1	37	19.14	19.02	18.97	18.98	
15	256QAM	1	74	19.19	19.17	19.10	19.09	
15	256QAM	36	0	18.42	18.23	18.29	18.24	
15	256QAM	36	20	18.34	18.28	18.26	18.15	
15	256QAM	36	39	18.37	18.25	18.32	18.24	



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15	256QAM	75	0	18.29	18.17	18.19	18.16	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	24.23	24.24	24.23	24.24	25.7
10	QPSK	1	25	24.02	24.08	24.07	24.02	
10	QPSK	1	49	24.12	24.14	24.14	24.12	
10	QPSK	25	0	22.12	22.13	22.13	22.12	23.7
10	QPSK	25	12	22.09	22.16	22.06	22.05	
10	QPSK	25	25	22.13	22.11	22.07	22.03	
10	QPSK	50	0	22.11	22.09	22.04	21.99	
10	16QAM	1	0	23.43	23.43	23.32	23.43	24.7
10	16QAM	1	25	23.35	23.34	23.24	23.28	
10	16QAM	1	49	23.35	23.36	23.17	23.21	
10	16QAM	25	0	21.27	21.27	21.29	21.27	22.7
10	16QAM	25	12	21.25	21.29	21.21	21.21	
10	16QAM	25	25	21.24	21.22	21.22	21.19	
10	16QAM	50	0	21.14	21.12	21.11	21.11	
10	64QAM	1	0	22.23	22.10	22.15	22.21	23.7
10	64QAM	1	25	22.12	22.02	21.99	22.08	
10	64QAM	1	49	22.10	22.10	21.97	22.10	
10	64QAM	25	0	21.17	21.22	21.19	21.17	22.7
10	64QAM	25	12	21.14	21.18	21.18	21.18	
10	64QAM	25	25	21.14	21.15	21.16	21.10	
10	64QAM	50	0	21.16	21.12	21.11	21.12	
10	256QAM	1	0	19.21	19.00	19.14	18.90	20.7
10	256QAM	1	25	19.18	19.09	19.02	19.04	
10	256QAM	1	49	19.23	19.10	19.09	19.02	
10	256QAM	25	0	18.33	18.24	18.25	18.18	19.7
10	256QAM	25	12	18.30	18.29	18.29	18.19	
10	256QAM	25	25	18.33	18.33	18.26	18.22	
10	256QAM	50	0	18.30	18.17	18.22	18.19	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	24.14	24.12	24.11	24.23	25.7
5	QPSK	1	12	24.11	24.17	24.06	24.15	
5	QPSK	1	24	24.15	24.13	24.13	24.24	
5	QPSK	12	0	22.15	22.19	22.19	22.35	23.7
5	QPSK	12	7	22.13	22.23	22.17	22.28	
5	QPSK	12	13	22.18	22.16	22.17	22.31	
5	QPSK	25	0	22.16	22.14	22.06	22.16	
5	16QAM	1	0	23.43	23.30	23.33	23.33	24.7
5	16QAM	1	12	23.42	23.22	23.43	23.43	
5	16QAM	1	24	23.37	23.29	23.31	23.39	
5	16QAM	12	0	21.16	21.18	21.17	21.33	22.7
5	16QAM	12	7	21.12	21.23	21.14	21.31	
5	16QAM	12	13	21.14	21.17	21.16	21.29	
5	16QAM	25	0	21.22	21.26	21.21	21.34	
5	64QAM	1	0	22.23	22.21	22.17	22.33	23.7
5	64QAM	1	12	22.24	22.09	22.07	22.38	
5	64QAM	1	24	22.15	22.14	22.10	22.27	
5	64QAM	12	0	21.17	21.20	21.21	21.38	22.7
5	64QAM	12	7	21.19	21.13	21.23	21.39	
5	64QAM	12	13	21.21	21.15	21.20	21.34	
5	64QAM	25	0	21.16	21.14	21.21	21.22	
5	256QAM	1	0	19.24	19.00	19.17	19.11	20.7
5	256QAM	1	12	19.15	19.09	19.01	19.13	
5	256QAM	1	24	19.23	19.16	19.14	19.24	
5	256QAM	12	0	18.35	18.26	18.25	18.32	19.7
5	256QAM	12	7	18.35	18.27	18.32	18.30	
5	256QAM	12	13	18.31	18.29	18.26	18.37	
5	256QAM	25	0	18.27	18.23	18.25	18.35	





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	22.60	22.60	22.54	22.61	22.9
20	QPSK	1	49	22.55	22.51	22.44	22.51	
20	QPSK	1	99	22.48	22.39	22.32	22.35	
20	QPSK	50	0	22.06	22.06	22.01	22.08	22.9
20	QPSK	50	24	22.06	22.06	21.94	21.93	
20	QPSK	50	50	22.02	22.00	21.88	21.87	
20	QPSK	100	0	22.05	22.04	21.98	22.07	22.9
20	16QAM	1	0	22.60	22.70	22.65	22.72	
20	16QAM	1	49	22.48	22.53	22.49	22.52	
20	16QAM	1	99	22.44	22.51	22.46	22.44	22.7
20	16QAM	50	0	21.13	21.15	21.06	21.09	
20	16QAM	50	24	21.08	21.12	20.99	21.01	
20	16QAM	50	50	21.08	21.04	20.95	20.95	22.7
20	16QAM	100	0	21.12	21.07	20.99	21.06	
20	64QAM	1	0	22.07	22.11	21.97	21.94	
20	64QAM	1	49	22.05	22.04	21.89	21.85	22.9
20	64QAM	1	99	21.99	21.94	21.75	21.75	
20	64QAM	50	0	21.18	21.15	21.06	21.13	
20	64QAM	50	24	21.16	21.11	21.01	21.04	22.7
20	64QAM	50	50	21.11	21.05	20.97	20.97	
20	64QAM	100	0	21.12	21.10	21.04	21.04	
20	256QAM	1	0	19.25	18.92	19.15	18.92	20.7
20	256QAM	1	49	19.15	19.01	18.98	19.04	
20	256QAM	1	99	19.26	19.14	19.19	19.01	
20	256QAM	50	0	18.42	18.30	18.30	18.18	19.7
20	256QAM	50	24	18.31	18.31	18.30	18.13	
20	256QAM	50	50	18.32	18.24	18.27	18.23	
20	256QAM	100	0	18.27	18.21	18.22	18.18	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.60	22.51	22.53	22.51	22.9
15	QPSK	1	37	22.45	22.46	22.35	22.44	
15	QPSK	1	74	22.40	22.33	22.32	22.28	
15	QPSK	36	0	21.99	22.05	21.96	21.99	22.9
15	QPSK	36	20	21.96	22.00	21.85	21.85	
15	QPSK	36	39	21.93	21.97	21.85	21.86	
15	QPSK	75	0	22.05	22.02	21.94	22.04	22.9
15	16QAM	1	0	22.56	22.64	22.64	22.68	
15	16QAM	1	37	22.47	22.50	22.39	22.51	
15	16QAM	1	74	22.38	22.43	22.42	22.35	22.7
15	16QAM	36	0	21.03	21.08	21.03	20.99	
15	16QAM	36	20	21.04	21.05	20.93	20.95	
15	16QAM	36	39	21.02	20.98	20.94	20.94	22.7
15	16QAM	75	0	21.07	20.97	20.96	20.99	
15	64QAM	1	0	22.01	22.02	21.97	21.88	
15	64QAM	1	37	21.97	22.03	21.89	21.82	22.9
15	64QAM	1	74	21.97	21.93	21.80	21.74	
15	64QAM	36	0	21.18	21.05	21.02	21.07	
15	64QAM	36	20	21.14	21.01	21.00	20.94	22.7
15	64QAM	36	39	21.07	21.00	20.95	20.96	
15	64QAM	75	0	21.03	21.09	20.99	21.03	
15	256QAM	1	0	19.23	18.83	19.15	18.90	20.7
15	256QAM	1	37	19.12	18.97	18.97	19.01	
15	256QAM	1	74	19.19	19.09	19.16	18.91	
15	256QAM	36	0	18.33	18.27	18.21	18.16	19.7
15	256QAM	36	20	18.29	18.24	18.21	18.06	
15	256QAM	36	39	18.29	18.17	18.19	18.21	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

15	256QAM	75	0	18.26	18.14	18.13	18.11	
Channel				55290	55815	56165	56690	Tune-up limit
Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)
10	QPSK	1	0	22.51	22.51	22.54	22.58	22.9
10	QPSK	1	25	22.52	22.44	22.42	22.44	
10	QPSK	1	49	22.45	22.38	22.23	22.26	
10	QPSK	25	0	22.00	21.99	21.94	22.00	22.9
10	QPSK	25	12	22.06	21.98	21.94	21.84	
10	QPSK	25	25	21.99	21.93	21.87	21.81	
10	QPSK	50	0	22.01	22.01	21.96	22.01	
10	16QAM	1	0	22.50	22.64	22.65	22.65	22.9
10	16QAM	1	25	22.45	22.50	22.49	22.45	
10	16QAM	1	49	22.43	22.51	22.36	22.43	
10	16QAM	25	0	21.08	21.05	20.99	21.04	22.7
10	16QAM	25	12	21.08	21.11	20.89	21.01	
10	16QAM	25	25	20.98	21.00	20.91	20.87	
10	16QAM	50	0	21.02	21.03	20.99	21.06	
10	64QAM	1	0	22.03	22.03	21.94	21.93	22.9
10	64QAM	1	25	22.03	22.01	21.79	21.77	
10	64QAM	1	49	21.98	21.89	21.70	21.71	
10	64QAM	25	0	21.14	21.07	20.98	21.12	22.7
10	64QAM	25	12	21.10	21.09	20.93	21.04	
10	64QAM	25	25	21.04	20.99	20.89	20.87	
10	64QAM	50	0	21.04	21.10	20.97	20.96	
10	256QAM	1	0	19.25	18.83	19.05	18.83	20.7
10	256QAM	1	25	19.10	18.99	18.88	18.97	
10	256QAM	1	49	19.21	19.08	19.16	19.01	
10	256QAM	25	0	18.38	18.20	18.26	18.09	19.7
10	256QAM	25	12	18.23	18.22	18.23	18.06	
10	256QAM	25	25	18.26	18.14	18.23	18.15	
10	256QAM	50	0	18.22	18.16	18.18	18.15	
Channel				55265	55810	56170	56715	Tune-up limit
Frequency (MHz)				3552.5	3607	3643	3697.5	(dBm)
5	QPSK	1	0	22.52	22.59	22.49	22.56	22.9
5	QPSK	1	12	22.55	22.47	22.36	22.49	
5	QPSK	1	24	22.47	22.30	22.28	22.34	
5	QPSK	12	0	21.96	22.04	21.93	22.03	22.9
5	QPSK	12	7	21.99	21.99	21.85	21.92	
5	QPSK	12	13	21.96	21.91	21.85	21.87	
5	QPSK	25	0	22.01	21.94	21.94	22.02	22.9
5	16QAM	1	0	22.55	22.67	22.65	22.72	
5	16QAM	1	12	22.45	22.50	22.40	22.48	
5	16QAM	1	24	22.37	22.48	22.43	22.35	
5	16QAM	12	0	21.04	21.09	20.96	21.00	22.7
5	16QAM	12	7	21.01	21.06	20.91	20.99	
5	16QAM	12	13	20.98	20.95	20.86	20.88	
5	16QAM	25	0	21.10	21.03	20.90	20.97	22.9
5	64QAM	1	0	21.98	22.05	21.95	21.85	
5	64QAM	1	12	21.97	22.03	21.86	21.78	
5	64QAM	1	24	21.89	21.88	21.72	21.78	
5	64QAM	12	0	21.18	21.08	20.99	21.07	22.7
5	64QAM	12	7	21.13	21.03	20.92	20.99	
5	64QAM	12	13	21.07	20.96	20.93	20.88	
5	64QAM	25	0	21.03	21.10	21.04	20.99	20.7
5	256QAM	1	0	19.24	18.90	19.15	18.85	
5	256QAM	1	12	19.09	18.98	18.89	18.99	
5	256QAM	1	24	19.17	19.14	19.09	18.94	
5	256QAM	12	0	18.39	18.29	18.20	18.13	19.7
5	256QAM	12	7	18.28	18.21	18.30	18.05	
5	256QAM	12	13	18.31	18.15	18.24	18.23	
5	256QAM	25	0	18.24	18.19	18.18	18.10	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	24.24	24.22	24.20	24.29	25.4
20	QPSK	1	49	24.21	24.14	24.10	24.19	
20	QPSK	1	99	24.09	24.02	23.99	24.07	
20	QPSK	50	0	22.13	22.13	22.06	22.15	23.7
20	QPSK	50	24	22.08	22.06	21.97	22.10	
20	QPSK	50	50	22.03	22.03	21.91	22.03	
20	QPSK	100	0	22.10	22.11	22.02	22.12	
20	16QAM	1	0	23.40	23.36	23.34	23.44	24.7
20	16QAM	1	49	23.29	23.28	23.26	23.30	
20	16QAM	1	99	23.23	23.21	23.19	23.23	
20	16QAM	50	0	21.17	21.16	21.11	21.21	22.7
20	16QAM	50	24	21.16	21.10	21.02	21.15	
20	16QAM	50	50	21.13	21.05	20.98	21.09	
20	16QAM	100	0	21.14	21.13	21.07	21.18	
20	64QAM	1	0	22.25	22.21	22.06	22.07	23.7
20	64QAM	1	49	22.25	22.21	21.98	22.00	
20	64QAM	1	99	22.12	22.09	21.87	21.98	
20	64QAM	50	0	21.18	21.19	21.12	21.18	22.7
20	64QAM	50	24	21.16	21.11	21.07	21.17	
20	64QAM	50	50	21.12	21.08	21.02	21.09	
20	64QAM	100	0	21.12	21.11	21.10	21.14	
20	256QAM	1	0	19.26	19.00	19.22	19.00	20.7
20	256QAM	1	49	19.23	19.10	19.03	19.07	
20	256QAM	1	99	19.26	19.19	19.19	19.09	
20	256QAM	50	0	18.43	18.30	18.35	18.24	19.7
20	256QAM	50	24	18.39	18.31	18.33	18.23	
20	256QAM	50	50	18.39	18.33	18.33	18.24	
20	256QAM	100	0	18.37	18.25	18.29	18.23	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	24.18	24.14	24.22	24.22	25.4
15	QPSK	1	37	24.03	24.06	23.97	24.11	
15	QPSK	1	74	24.12	24.02	24.05	24.00	
15	QPSK	36	0	22.16	22.16	22.15	22.14	23.7
15	QPSK	36	20	22.10	22.13	22.10	22.08	
15	QPSK	36	39	22.10	22.11	22.07	22.04	
15	QPSK	75	0	22.13	22.12	22.07	22.03	
15	16QAM	1	0	23.30	23.41	23.47	23.32	24.7
15	16QAM	1	37	23.19	23.26	23.40	23.22	
15	16QAM	1	74	23.27	23.18	23.32	23.13	
15	16QAM	36	0	21.21	21.17	21.20	21.18	22.7
15	16QAM	36	20	21.16	21.16	21.17	21.14	
15	16QAM	36	39	21.15	21.15	21.16	21.10	
15	16QAM	75	0	21.19	21.18	21.18	21.15	
15	64QAM	1	0	22.17	22.16	22.23	22.21	23.7
15	64QAM	1	37	22.24	21.93	22.05	22.06	
15	64QAM	1	74	22.11	21.98	22.07	22.08	
15	64QAM	36	0	21.21	21.23	21.28	21.27	22.7
15	64QAM	36	20	21.17	21.17	21.21	21.20	
15	64QAM	36	39	21.18	21.17	21.19	21.19	
15	64QAM	75	0	21.17	21.18	21.17	21.14	
15	256QAM	1	0	19.16	18.94	19.21	18.99	20.7
15	256QAM	1	37	19.14	19.02	18.97	18.98	
15	256QAM	1	74	19.19	19.17	19.10	19.09	
15	256QAM	36	0	18.42	18.23	18.29	18.24	19.7
15	256QAM	36	20	18.34	18.28	18.26	18.15	
15	256QAM	36	39	18.37	18.25	18.32	18.24	



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**Report No. : FA380306C**

15	256QAM	75	0	18.29	18.17	18.19	18.16	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	24.23	24.24	24.23	24.24	25.4
10	QPSK	1	25	24.02	24.08	24.07	24.02	
10	QPSK	1	49	24.12	24.14	24.14	24.12	
10	QPSK	25	0	22.12	22.13	22.13	22.12	23.7
10	QPSK	25	12	22.09	22.16	22.06	22.05	
10	QPSK	25	25	22.13	22.11	22.07	22.03	
10	QPSK	50	0	22.11	22.09	22.04	21.99	
10	16QAM	1	0	23.43	23.43	23.32	23.43	24.7
10	16QAM	1	25	23.35	23.34	23.24	23.28	
10	16QAM	1	49	23.35	23.36	23.17	23.21	
10	16QAM	25	0	21.27	21.27	21.29	21.27	22.7
10	16QAM	25	12	21.25	21.29	21.21	21.21	
10	16QAM	25	25	21.24	21.22	21.22	21.19	
10	16QAM	50	0	21.14	21.12	21.11	21.11	
10	64QAM	1	0	22.23	22.10	22.15	22.21	23.7
10	64QAM	1	25	22.12	22.02	21.99	22.08	
10	64QAM	1	49	22.10	22.10	21.97	22.10	
10	64QAM	25	0	21.17	21.22	21.19	21.17	22.7
10	64QAM	25	12	21.14	21.18	21.18	21.18	
10	64QAM	25	25	21.14	21.15	21.16	21.10	
10	64QAM	50	0	21.16	21.12	21.11	21.12	
10	256QAM	1	0	19.21	19.00	19.14	18.90	20.7
10	256QAM	1	25	19.18	19.09	19.02	19.04	
10	256QAM	1	49	19.23	19.10	19.09	19.02	
10	256QAM	25	0	18.33	18.24	18.25	18.18	19.7
10	256QAM	25	12	18.30	18.29	18.29	18.19	
10	256QAM	25	25	18.33	18.33	18.26	18.22	
10	256QAM	50	0	18.30	18.17	18.22	18.19	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	24.14	24.12	24.11	24.23	25.4
5	QPSK	1	12	24.11	24.17	24.06	24.15	
5	QPSK	1	24	24.15	24.13	24.13	24.24	
5	QPSK	12	0	22.15	22.19	22.19	22.35	23.7
5	QPSK	12	7	22.13	22.23	22.17	22.28	
5	QPSK	12	13	22.18	22.16	22.17	22.31	
5	QPSK	25	0	22.16	22.14	22.06	22.16	
5	16QAM	1	0	23.43	23.30	23.33	23.33	24.7
5	16QAM	1	12	23.42	23.22	23.43	23.43	
5	16QAM	1	24	23.37	23.29	23.31	23.39	
5	16QAM	12	0	21.16	21.18	21.17	21.33	22.7
5	16QAM	12	7	21.12	21.23	21.14	21.31	
5	16QAM	12	13	21.14	21.17	21.16	21.29	
5	16QAM	25	0	21.22	21.26	21.21	21.34	
5	64QAM	1	0	22.23	22.21	22.17	22.33	23.7
5	64QAM	1	12	22.24	22.09	22.07	22.38	
5	64QAM	1	24	22.15	22.14	22.10	22.27	
5	64QAM	12	0	21.17	21.20	21.21	21.38	22.7
5	64QAM	12	7	21.19	21.13	21.23	21.39	
5	64QAM	12	13	21.21	21.15	21.20	21.34	
5	64QAM	25	0	21.16	21.14	21.21	21.22	
5	256QAM	1	0	19.24	19.00	19.17	19.11	20.7
5	256QAM	1	12	19.15	19.09	19.01	19.13	
5	256QAM	1	24	19.23	19.16	19.14	19.24	
5	256QAM	12	0	18.35	18.26	18.25	18.32	19.7
5	256QAM	12	7	18.35	18.27	18.32	18.30	
5	256QAM	12	13	18.31	18.29	18.26	18.37	
5	256QAM	25	0	18.27	18.23	18.25	18.35	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.73	23.66	23.83	24.01	25.2
20	QPSK	1	49	23.59	23.51	23.65	23.86	
20	QPSK	1	99	23.54	23.47	23.57	23.77	
20	QPSK	50	0	21.60	21.54	21.66	21.84	23.2
20	QPSK	50	24	21.59	21.52	21.63	21.78	
20	QPSK	50	50	21.55	21.45	21.59	21.72	
20	QPSK	100	0	21.59	21.50	21.65	21.80	24.2
20	16QAM	1	0	22.77	22.67	22.88	22.96	
20	16QAM	1	49	22.70	22.61	22.71	22.75	
20	16QAM	1	99	22.64	22.49	22.64	22.77	22.2
20	16QAM	50	0	20.69	20.55	20.72	20.89	
20	16QAM	50	24	20.63	20.51	20.68	20.84	
20	16QAM	50	50	20.60	20.47	20.61	20.77	23.2
20	16QAM	100	0	20.64	20.52	20.66	20.84	
20	64QAM	1	0	21.63	21.49	21.59	21.82	
20	64QAM	1	49	21.50	21.44	21.49	21.69	22.2
20	64QAM	1	99	21.44	21.29	21.34	21.55	
20	64QAM	50	0	20.64	20.58	20.72	20.88	
20	64QAM	50	24	20.62	20.58	20.66	20.82	20.2
20	64QAM	50	50	20.54	20.52	20.59	20.76	
20	64QAM	100	0	20.61	20.55	20.65	20.81	
20	256QAM	1	0	19.23	19.06	18.95	19.39	19.2
20	256QAM	1	49	18.99	18.93	19.00	19.30	
20	256QAM	1	99	19.08	18.97	19.08	19.41	
20	256QAM	50	0	18.20	18.14	18.21	18.51	20.2
20	256QAM	50	24	18.21	18.12	18.20	18.53	
20	256QAM	50	50	18.23	18.10	18.23	18.54	
20	256QAM	100	0	18.16	18.07	18.15	18.48	20.2
Channel				55315	55820	56160	56665	
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.73	23.68	23.81	23.92	25.2
15	QPSK	1	37	23.59	23.52	23.60	23.79	
15	QPSK	1	74	23.61	23.60	23.62	23.73	
15	QPSK	36	0	21.70	21.61	21.72	21.90	23.2
15	QPSK	36	20	21.66	21.55	21.69	21.85	
15	QPSK	36	39	21.64	21.55	21.67	21.84	
15	QPSK	75	0	21.65	21.61	21.71	21.87	24.2
15	16QAM	1	0	22.88	22.83	22.96	23.06	
15	16QAM	1	37	22.84	22.82	22.84	22.97	
15	16QAM	1	74	22.74	22.64	22.73	22.84	22.2
15	16QAM	36	0	20.72	20.63	20.74	20.91	
15	16QAM	36	20	20.72	20.58	20.72	20.89	
15	16QAM	36	39	20.67	20.59	20.70	20.86	23.2
15	16QAM	75	0	20.73	20.66	20.75	20.93	
15	64QAM	1	0	21.89	21.55	21.82	21.92	
15	64QAM	1	37	21.69	21.57	21.60	21.82	22.2
15	64QAM	1	74	21.75	21.46	21.64	21.84	
15	64QAM	36	0	20.79	20.65	20.78	20.98	
15	64QAM	36	20	20.74	20.62	20.72	20.92	20.2
15	64QAM	36	39	20.73	20.62	20.71	20.88	
15	64QAM	75	0	20.68	20.59	20.73	20.84	
15	256QAM	1	0	19.11	18.90	18.80	19.24	19.2
15	256QAM	1	37	18.84	18.81	18.84	19.15	
15	256QAM	1	74	18.89	18.82	18.92	19.28	
15	256QAM	36	0	18.10	18.02	18.04	18.39	19.2
15	256QAM	36	20	18.05	17.99	18.10	18.37	
15	256QAM	36	39	18.11	17.93	18.11	18.40	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

15	256QAM	75	0	18.05	17.90	17.97	18.35	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.80	23.66	23.81	23.98	25.2
10	QPSK	1	25	23.61	23.49	23.64	23.79	
10	QPSK	1	49	23.66	23.52	23.64	23.80	
10	QPSK	25	0	21.64	21.57	21.70	21.88	23.2
10	QPSK	25	12	21.62	21.57	21.65	21.83	
10	QPSK	25	25	21.61	21.55	21.68	21.85	
10	QPSK	50	0	21.62	21.58	21.67	21.83	
10	16QAM	1	0	22.87	22.87	22.84	23.06	24.2
10	16QAM	1	25	22.78	22.72	22.76	22.94	
10	16QAM	1	49	22.78	22.64	22.68	22.85	
10	16QAM	25	0	20.81	20.69	20.80	20.98	22.2
10	16QAM	25	12	20.76	20.71	20.77	20.96	
10	16QAM	25	25	20.75	20.68	20.77	20.96	
10	16QAM	50	0	20.65	20.58	20.68	20.86	
10	64QAM	1	0	21.78	21.46	21.64	21.86	23.2
10	64QAM	1	25	21.62	21.47	21.47	21.68	
10	64QAM	1	49	21.58	21.36	21.47	21.71	
10	64QAM	25	0	20.72	20.61	20.75	20.93	22.2
10	64QAM	25	12	20.69	20.56	20.74	20.89	
10	64QAM	25	25	20.69	20.57	20.69	20.87	
10	64QAM	50	0	20.66	20.58	20.70	20.86	
10	256QAM	1	0	19.09	18.88	18.75	19.25	20.2
10	256QAM	1	25	18.84	18.78	18.82	19.16	
10	256QAM	1	49	18.98	18.80	18.93	19.31	
10	256QAM	25	0	18.06	17.94	18.08	18.35	19.2
10	256QAM	25	12	18.02	17.99	18.05	18.43	
10	256QAM	25	25	18.08	17.92	18.13	18.39	
10	256QAM	50	0	18.04	17.96	18.00	18.30	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.72	23.59	23.73	23.89	25.2
5	QPSK	1	12	23.64	23.67	23.80	23.96	
5	QPSK	1	24	23.73	23.63	23.68	23.85	
5	QPSK	12	0	21.72	21.59	21.71	21.89	23.2
5	QPSK	12	7	21.68	21.60	21.75	21.94	
5	QPSK	12	13	21.68	21.59	21.71	21.89	
5	QPSK	25	0	21.66	21.60	21.71	21.87	24.2
5	16QAM	1	0	22.85	22.71	22.88	23.02	
5	16QAM	1	12	22.86	22.70	22.80	22.99	
5	16QAM	1	24	22.89	22.78	22.87	23.01	
5	16QAM	12	0	20.72	20.61	20.69	20.85	22.2
5	16QAM	12	7	20.70	20.63	20.76	20.90	
5	16QAM	12	13	20.69	20.55	20.68	20.84	
5	16QAM	25	0	20.72	20.69	20.81	20.98	23.2
5	64QAM	1	0	21.47	21.41	21.56	21.75	
5	64QAM	1	12	21.49	21.38	21.48	21.60	
5	64QAM	1	24	21.38	21.35	21.55	21.69	
5	64QAM	12	0	20.66	20.55	20.68	20.90	22.2
5	64QAM	12	7	20.69	20.51	20.63	20.90	
5	64QAM	12	13	20.64	20.52	20.64	20.87	
5	64QAM	25	0	20.66	20.55	20.68	20.93	20.2
5	256QAM	1	0	19.06	18.86	18.80	19.23	
5	256QAM	1	12	18.79	18.76	18.86	19.12	
5	256QAM	1	24	18.96	18.82	18.96	19.26	
5	256QAM	12	0	18.08	18.03	18.02	18.37	19.2
5	256QAM	12	7	18.08	17.92	18.00	18.40	
5	256QAM	12	13	18.03	17.97	18.11	18.38	
5	256QAM	25	0	17.99	17.90	18.04	18.38	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.73	23.86	23.83	24.01	25
20	QPSK	1	49	23.59	23.51	23.65	23.86	
20	QPSK	1	99	23.54	23.47	23.57	23.77	
20	QPSK	50	0	21.60	21.54	21.66	21.84	23.2
20	QPSK	50	24	21.59	21.52	21.63	21.78	
20	QPSK	50	50	21.55	21.45	21.59	21.72	
20	QPSK	100	0	21.59	21.50	21.65	21.80	24.2
20	16QAM	1	0	22.77	22.67	22.88	22.96	
20	16QAM	1	49	22.70	22.61	22.71	22.75	
20	16QAM	1	99	22.64	22.49	22.64	22.77	22.2
20	16QAM	50	0	20.69	20.55	20.72	20.89	
20	16QAM	50	24	20.63	20.51	20.68	20.84	
20	16QAM	50	50	20.60	20.47	20.61	20.77	23.2
20	16QAM	100	0	20.64	20.52	20.66	20.84	
20	64QAM	1	0	21.63	21.49	21.59	21.82	
20	64QAM	1	49	21.50	21.44	21.49	21.69	22.2
20	64QAM	1	99	21.44	21.29	21.34	21.55	
20	64QAM	50	0	20.64	20.58	20.72	20.88	
20	64QAM	50	24	20.62	20.58	20.66	20.82	20.2
20	64QAM	50	50	20.54	20.52	20.59	20.76	
20	64QAM	100	0	20.61	20.55	20.65	20.81	
20	256QAM	1	0	19.23	19.06	18.95	19.39	19.2
20	256QAM	1	49	18.99	18.93	19.00	19.30	
20	256QAM	1	99	19.08	18.97	19.08	19.41	
20	256QAM	50	0	18.20	18.14	18.21	18.51	20.2
20	256QAM	50	24	18.21	18.12	18.20	18.53	
20	256QAM	50	50	18.23	18.10	18.23	18.54	
20	256QAM	100	0	18.16	18.07	18.15	18.48	19.2
Channel				55315	55820	56160	56665	
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.73	23.68	23.81	23.92	25
15	QPSK	1	37	23.59	23.52	23.60	23.79	
15	QPSK	1	74	23.61	23.60	23.62	23.73	
15	QPSK	36	0	21.70	21.61	21.72	21.90	23.2
15	QPSK	36	20	21.66	21.55	21.69	21.85	
15	QPSK	36	39	21.64	21.55	21.67	21.84	
15	QPSK	75	0	21.65	21.61	21.71	21.87	24.2
15	16QAM	1	0	22.88	22.83	22.96	23.06	
15	16QAM	1	37	22.84	22.82	22.84	22.97	
15	16QAM	1	74	22.74	22.64	22.73	22.84	22.2
15	16QAM	36	0	20.72	20.63	20.74	20.91	
15	16QAM	36	20	20.72	20.58	20.72	20.89	
15	16QAM	36	39	20.67	20.59	20.70	20.86	23.2
15	16QAM	75	0	20.73	20.66	20.75	20.93	
15	64QAM	1	0	21.89	21.55	21.82	21.92	
15	64QAM	1	37	21.69	21.57	21.60	21.82	22.2
15	64QAM	1	74	21.75	21.46	21.64	21.84	
15	64QAM	36	0	20.79	20.65	20.78	20.98	
15	64QAM	36	20	20.74	20.62	20.72	20.92	20.2
15	64QAM	36	39	20.73	20.62	20.71	20.88	
15	64QAM	75	0	20.68	20.59	20.73	20.84	
15	256QAM	1	0	19.11	18.90	18.80	19.24	19.2
15	256QAM	1	37	18.84	18.81	18.84	19.15	
15	256QAM	1	74	18.89	18.82	18.92	19.28	
15	256QAM	36	0	18.10	18.02	18.04	18.39	19.2
15	256QAM	36	20	18.05	17.99	18.10	18.37	
15	256QAM	36	39	18.11	17.93	18.11	18.40	



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**Report No. : FA380306C**

15	256QAM	75	0	18.05	17.90	17.97	18.35	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.80	23.66	23.81	23.98	25
10	QPSK	1	25	23.61	23.49	23.64	23.79	
10	QPSK	1	49	23.66	23.52	23.64	23.80	
10	QPSK	25	0	21.64	21.57	21.70	21.88	23.2
10	QPSK	25	12	21.62	21.57	21.65	21.83	
10	QPSK	25	25	21.61	21.55	21.68	21.85	
10	QPSK	50	0	21.62	21.58	21.67	21.83	
10	16QAM	1	0	22.87	22.87	22.84	23.06	24.2
10	16QAM	1	25	22.78	22.72	22.76	22.94	
10	16QAM	1	49	22.78	22.64	22.68	22.85	
10	16QAM	25	0	20.81	20.69	20.80	20.98	22.2
10	16QAM	25	12	20.76	20.71	20.77	20.96	
10	16QAM	25	25	20.75	20.68	20.77	20.96	
10	16QAM	50	0	20.65	20.58	20.68	20.86	
10	64QAM	1	0	21.78	21.46	21.64	21.86	23.2
10	64QAM	1	25	21.62	21.47	21.47	21.68	
10	64QAM	1	49	21.58	21.36	21.47	21.71	
10	64QAM	25	0	20.72	20.61	20.75	20.93	22.2
10	64QAM	25	12	20.69	20.56	20.74	20.89	
10	64QAM	25	25	20.69	20.57	20.69	20.87	
10	64QAM	50	0	20.66	20.58	20.70	20.86	
10	256QAM	1	0	19.09	18.88	18.75	19.25	20.2
10	256QAM	1	25	18.84	18.78	18.82	19.16	
10	256QAM	1	49	18.98	18.80	18.93	19.31	
10	256QAM	25	0	18.06	17.94	18.08	18.35	19.2
10	256QAM	25	12	18.02	17.99	18.05	18.43	
10	256QAM	25	25	18.08	17.92	18.13	18.39	
10	256QAM	50	0	18.04	17.96	18.00	18.30	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.72	23.59	23.73	23.89	25
5	QPSK	1	12	23.64	23.67	23.80	23.96	
5	QPSK	1	24	23.73	23.63	23.68	23.85	
5	QPSK	12	0	21.72	21.59	21.71	21.89	23.2
5	QPSK	12	7	21.68	21.60	21.75	21.94	
5	QPSK	12	13	21.68	21.59	21.71	21.89	
5	QPSK	25	0	21.66	21.60	21.71	21.87	24.2
5	16QAM	1	0	22.85	22.71	22.88	23.02	
5	16QAM	1	12	22.86	22.70	22.80	22.99	
5	16QAM	1	24	22.89	22.78	22.87	23.01	
5	16QAM	12	0	20.72	20.61	20.69	20.85	22.2
5	16QAM	12	7	20.70	20.63	20.76	20.90	
5	16QAM	12	13	20.69	20.55	20.68	20.84	
5	16QAM	25	0	20.72	20.69	20.81	20.98	23.2
5	64QAM	1	0	21.47	21.41	21.56	21.75	
5	64QAM	1	12	21.49	21.38	21.48	21.60	
5	64QAM	1	24	21.38	21.35	21.55	21.69	
5	64QAM	12	0	20.66	20.55	20.68	20.90	22.2
5	64QAM	12	7	20.69	20.51	20.63	20.90	
5	64QAM	12	13	20.64	20.52	20.64	20.87	
5	64QAM	25	0	20.66	20.55	20.68	20.93	20.2
5	256QAM	1	0	19.06	18.86	18.80	19.23	
5	256QAM	1	12	18.79	18.76	18.86	19.12	
5	256QAM	1	24	18.96	18.82	18.96	19.26	
5	256QAM	12	0	18.08	18.03	18.02	18.37	19.2
5	256QAM	12	7	18.08	17.92	18.00	18.40	
5	256QAM	12	13	18.03	17.97	18.11	18.38	
5	256QAM	25	0	17.99	17.90	18.04	18.38	





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.09	19.98	20.10	20.36	21.6
20	QPSK	1	49	19.98	19.84	19.99	20.20	
20	QPSK	1	99	19.93	19.78	19.88	20.13	
20	QPSK	50	0	19.96	19.83	19.91	20.20	21.6
20	QPSK	50	24	19.89	19.77	19.86	20.17	
20	QPSK	50	50	19.86	19.74	19.81	20.08	
20	QPSK	100	0	19.92	19.79	19.87	20.15	21.6
20	16QAM	1	0	20.19	20.11	20.18	20.35	
20	16QAM	1	49	20.01	19.83	20.06	20.19	
20	16QAM	1	99	20.02	19.87	20.00	20.20	21.6
20	16QAM	50	0	19.97	19.88	19.95	20.22	
20	16QAM	50	24	19.96	19.84	19.91	20.18	
20	16QAM	50	50	19.88	19.77	19.85	20.11	21.6
20	16QAM	100	0	19.93	19.84	19.90	20.19	
20	64QAM	1	0	19.92	19.69	19.99	20.26	
20	64QAM	1	49	19.83	19.55	19.86	20.19	21.6
20	64QAM	1	99	19.74	19.55	19.78	20.10	
20	64QAM	50	0	20.00	19.85	19.97	20.28	
20	64QAM	50	24	19.99	19.84	19.94	20.21	21.6
20	64QAM	50	50	19.91	19.78	19.87	20.15	
20	64QAM	100	0	19.94	19.82	19.91	20.20	
20	256QAM	1	0	19.17	19.00	18.86	19.31	20.2
20	256QAM	1	49	18.89	18.93	18.94	19.23	
20	256QAM	1	99	19.05	18.87	18.99	19.36	
20	256QAM	50	0	18.15	18.09	18.15	18.41	19.2
20	256QAM	50	24	18.20	18.05	18.17	18.49	
20	256QAM	50	50	18.18	18.05	18.19	18.53	
20	256QAM	100	0	18.15	18.02	18.11	18.48	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.03	19.94	20.06	20.30	21.6
15	QPSK	1	37	19.98	19.75	19.94	20.11	
15	QPSK	1	74	19.90	19.70	19.80	20.13	
15	QPSK	36	0	19.96	19.77	19.83	20.12	21.6
15	QPSK	36	20	19.88	19.75	19.76	20.12	
15	QPSK	36	39	19.77	19.64	19.78	20.08	
15	QPSK	75	0	19.92	19.73	19.83	20.10	21.6
15	16QAM	1	0	20.18	20.02	20.13	20.35	
15	16QAM	1	37	19.96	19.80	20.01	20.14	
15	16QAM	1	74	19.94	19.84	19.92	20.10	21.6
15	16QAM	36	0	19.89	19.81	19.93	20.19	
15	16QAM	36	20	19.86	19.77	19.87	20.12	
15	16QAM	36	39	19.84	19.77	19.75	20.11	21.6
15	16QAM	75	0	19.89	19.74	19.84	20.14	
15	64QAM	1	0	19.87	19.66	19.92	20.21	
15	64QAM	1	37	19.73	19.61	19.80	20.17	21.6
15	64QAM	1	74	19.68	19.63	19.71	20.10	
15	64QAM	36	0	19.96	19.81	19.89	20.18	
15	64QAM	36	20	19.93	19.77	19.87	20.14	21.6
15	64QAM	36	39	19.91	19.72	19.82	20.08	
15	64QAM	75	0	19.86	19.75	19.81	20.19	
15	256QAM	1	0	19.07	18.95	18.86	19.31	20.2
15	256QAM	1	37	18.89	18.85	18.85	19.17	
15	256QAM	1	74	19.05	18.77	18.89	19.36	
15	256QAM	36	0	18.12	18.09	18.15	18.40	19.2
15	256QAM	36	20	18.18	17.96	18.13	18.43	
15	256QAM	36	39	18.08	18.05	18.16	18.43	



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**Report No. : FA380306C**

15	256QAM	75	0	18.15	17.95	18.03	18.44	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.07	19.89	20.07	20.26	21.6
10	QPSK	1	25	19.93	19.83	19.92	20.11	
10	QPSK	1	49	19.86	19.75	19.86	20.04	
10	QPSK	25	0	19.87	19.77	19.85	20.19	21.6
10	QPSK	25	12	19.88	19.77	19.81	20.12	
10	QPSK	25	25	19.76	19.67	19.77	20.07	
10	QPSK	50	0	19.89	19.73	19.85	20.08	
10	16QAM	1	0	20.19	20.08	20.16	20.31	21.6
10	16QAM	1	25	20.00	19.74	20.05	20.11	
10	16QAM	1	49	19.97	19.84	19.90	20.19	
10	16QAM	25	0	19.93	19.82	19.89	20.22	21.6
10	16QAM	25	12	19.93	19.77	19.87	20.12	
10	16QAM	25	25	19.83	19.76	19.77	20.07	
10	16QAM	50	0	19.85	19.81	19.85	20.19	
10	64QAM	1	0	19.87	19.66	19.90	20.17	21.6
10	64QAM	1	25	19.75	19.60	19.83	20.12	
10	64QAM	1	49	19.69	19.67	19.69	20.03	
10	64QAM	25	0	19.94	19.83	19.87	20.22	21.6
10	64QAM	25	12	19.96	19.81	19.87	20.12	
10	64QAM	25	25	19.90	19.68	19.78	20.14	
10	64QAM	50	0	19.88	19.82	19.83	20.15	
10	256QAM	1	0	19.10	19.00	18.82	19.27	20.2
10	256QAM	1	25	18.83	18.85	18.86	19.21	
10	256QAM	1	49	19.05	18.85	18.99	19.26	
10	256QAM	25	0	18.14	18.04	18.10	18.39	19.2
10	256QAM	25	12	18.10	17.97	18.09	18.49	
10	256QAM	25	25	18.08	17.96	18.14	18.47	
10	256QAM	50	0	18.06	17.94	18.03	18.39	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.07	19.89	20.04	20.29	21.6
5	QPSK	1	12	19.90	19.82	19.91	20.11	
5	QPSK	1	24	19.83	19.70	19.80	20.08	
5	QPSK	12	0	19.89	19.83	19.81	20.19	21.6
5	QPSK	12	7	19.83	19.77	19.79	20.07	
5	QPSK	12	13	19.78	19.73	19.72	20.05	
5	QPSK	25	0	19.88	19.70	19.87	20.11	
5	16QAM	1	0	20.19	20.03	20.16	20.28	21.6
5	16QAM	1	12	19.93	19.82	20.01	20.11	
5	16QAM	1	24	19.97	19.84	19.91	20.16	
5	16QAM	12	0	19.93	19.80	19.94	20.22	21.6
5	16QAM	12	7	19.91	19.82	19.90	20.10	
5	16QAM	12	13	19.79	19.73	19.83	20.05	
5	16QAM	25	0	19.87	19.81	19.85	20.16	
5	64QAM	1	0	19.92	19.62	19.89	20.16	21.6
5	64QAM	1	12	19.82	19.69	19.85	20.16	
5	64QAM	1	24	19.69	19.70	19.73	20.02	
5	64QAM	12	0	19.96	19.78	19.90	20.27	21.6
5	64QAM	12	7	19.89	19.78	19.89	20.19	
5	64QAM	12	13	19.82	19.77	19.77	20.15	
5	64QAM	25	0	19.93	19.73	19.85	20.15	
5	256QAM	1	0	19.10	18.91	18.85	19.25	20.2
5	256QAM	1	12	18.88	18.83	18.93	19.22	
5	256QAM	1	24	18.98	18.87	18.98	19.30	
5	256QAM	12	0	18.09	18.02	18.14	18.38	19.2
5	256QAM	12	7	18.16	18.04	18.15	18.44	
5	256QAM	12	13	18.13	17.95	18.13	18.53	
5	256QAM	25	0	18.08	17.93	18.06	18.43	



<LTE Band 48\_Ant 6\_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.73	23.86	23.83	24.01	24.6
20	QPSK	1	49	23.59	23.51	23.65	23.86	
20	QPSK	1	99	23.54	23.47	23.57	23.77	
20	QPSK	50	0	21.60	21.54	21.66	21.84	23.2
20	QPSK	50	24	21.59	21.52	21.63	21.78	
20	QPSK	50	50	21.55	21.45	21.59	21.72	
20	QPSK	100	0	21.59	21.50	21.65	21.80	24.2
20	16QAM	1	0	22.77	22.67	22.88	22.96	
20	16QAM	1	49	22.70	22.61	22.71	22.75	
20	16QAM	1	99	22.64	22.49	22.64	22.77	22.2
20	16QAM	50	0	20.69	20.55	20.72	20.89	
20	16QAM	50	24	20.63	20.51	20.68	20.84	
20	16QAM	50	50	20.60	20.47	20.61	20.77	23.2
20	16QAM	100	0	20.64	20.52	20.66	20.84	
20	64QAM	1	0	21.63	21.49	21.59	21.82	
20	64QAM	1	49	21.50	21.44	21.49	21.69	22.2
20	64QAM	1	99	21.44	21.29	21.34	21.55	
20	64QAM	50	0	20.64	20.58	20.72	20.88	
20	64QAM	50	24	20.62	20.58	20.66	20.82	20.2
20	64QAM	50	50	20.54	20.52	20.59	20.76	
20	64QAM	100	0	20.61	20.55	20.65	20.81	
20	256QAM	1	0	19.23	19.06	18.95	19.39	19.2
20	256QAM	1	49	18.99	18.93	19.00	19.30	
20	256QAM	1	99	19.08	18.97	19.08	19.41	
20	256QAM	50	0	18.20	18.14	18.21	18.51	20.2
20	256QAM	50	24	18.21	18.12	18.20	18.53	
20	256QAM	50	50	18.23	18.10	18.23	18.54	
20	256QAM	100	0	18.16	18.07	18.15	18.48	24.6
Channel				55315	55820	56160	56665	
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.73	23.68	23.81	23.92	24.6
15	QPSK	1	37	23.59	23.52	23.60	23.79	
15	QPSK	1	74	23.61	23.60	23.62	23.73	
15	QPSK	36	0	21.70	21.61	21.72	21.90	23.2
15	QPSK	36	20	21.66	21.55	21.69	21.85	
15	QPSK	36	39	21.64	21.55	21.67	21.84	
15	QPSK	75	0	21.65	21.61	21.71	21.87	24.2
15	16QAM	1	0	22.88	22.83	22.96	23.06	
15	16QAM	1	37	22.84	22.82	22.84	22.97	
15	16QAM	1	74	22.74	22.64	22.73	22.84	22.2
15	16QAM	36	0	20.72	20.63	20.74	20.91	
15	16QAM	36	20	20.72	20.58	20.72	20.89	
15	16QAM	36	39	20.67	20.59	20.70	20.86	23.2
15	16QAM	75	0	20.73	20.66	20.75	20.93	
15	64QAM	1	0	21.89	21.55	21.82	21.92	
15	64QAM	1	37	21.69	21.57	21.60	21.82	22.2
15	64QAM	1	74	21.75	21.46	21.64	21.84	
15	64QAM	36	0	20.79	20.65	20.78	20.98	
15	64QAM	36	20	20.74	20.62	20.72	20.92	20.2
15	64QAM	36	39	20.73	20.62	20.71	20.88	
15	64QAM	75	0	20.68	20.59	20.73	20.84	
15	256QAM	1	0	19.11	18.90	18.80	19.24	19.2
15	256QAM	1	37	18.84	18.81	18.84	19.15	
15	256QAM	1	74	18.89	18.82	18.92	19.28	
15	256QAM	36	0	18.10	18.02	18.04	18.39	19.2
15	256QAM	36	20	18.05	17.99	18.10	18.37	
15	256QAM	36	39	18.11	17.93	18.11	18.40	



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**Report No. : FA380306C**

15	256QAM	75	0	18.05	17.90	17.97	18.35	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.80	23.66	23.81	23.98	24.6
10	QPSK	1	25	23.61	23.49	23.64	23.79	
10	QPSK	1	49	23.66	23.52	23.64	23.80	
10	QPSK	25	0	21.64	21.57	21.70	21.88	23.2
10	QPSK	25	12	21.62	21.57	21.65	21.83	
10	QPSK	25	25	21.61	21.55	21.68	21.85	
10	QPSK	50	0	21.62	21.58	21.67	21.83	
10	16QAM	1	0	22.87	22.87	22.84	23.06	24.2
10	16QAM	1	25	22.78	22.72	22.76	22.94	
10	16QAM	1	49	22.78	22.64	22.68	22.85	
10	16QAM	25	0	20.81	20.69	20.80	20.98	22.2
10	16QAM	25	12	20.76	20.71	20.77	20.96	
10	16QAM	25	25	20.75	20.68	20.77	20.96	
10	16QAM	50	0	20.65	20.58	20.68	20.86	
10	64QAM	1	0	21.78	21.46	21.64	21.86	23.2
10	64QAM	1	25	21.62	21.47	21.47	21.68	
10	64QAM	1	49	21.58	21.36	21.47	21.71	
10	64QAM	25	0	20.72	20.61	20.75	20.93	22.2
10	64QAM	25	12	20.69	20.56	20.74	20.89	
10	64QAM	25	25	20.69	20.57	20.69	20.87	
10	64QAM	50	0	20.66	20.58	20.70	20.86	
10	256QAM	1	0	19.09	18.88	18.75	19.25	20.2
10	256QAM	1	25	18.84	18.78	18.82	19.16	
10	256QAM	1	49	18.98	18.80	18.93	19.31	
10	256QAM	25	0	18.06	17.94	18.08	18.35	19.2
10	256QAM	25	12	18.02	17.99	18.05	18.43	
10	256QAM	25	25	18.08	17.92	18.13	18.39	
10	256QAM	50	0	18.04	17.96	18.00	18.30	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.72	23.59	23.73	23.89	24.6
5	QPSK	1	12	23.64	23.67	23.80	23.96	
5	QPSK	1	24	23.73	23.63	23.68	23.85	
5	QPSK	12	0	21.72	21.59	21.71	21.89	23.2
5	QPSK	12	7	21.68	21.60	21.75	21.94	
5	QPSK	12	13	21.68	21.59	21.71	21.89	
5	QPSK	25	0	21.66	21.60	21.71	21.87	24.2
5	16QAM	1	0	22.85	22.71	22.88	23.02	
5	16QAM	1	12	22.86	22.70	22.80	22.99	
5	16QAM	1	24	22.89	22.78	22.87	23.01	
5	16QAM	12	0	20.72	20.61	20.69	20.85	22.2
5	16QAM	12	7	20.70	20.63	20.76	20.90	
5	16QAM	12	13	20.69	20.55	20.68	20.84	
5	16QAM	25	0	20.72	20.69	20.81	20.98	23.2
5	64QAM	1	0	21.47	21.41	21.56	21.75	
5	64QAM	1	12	21.49	21.38	21.48	21.60	
5	64QAM	1	24	21.38	21.35	21.55	21.69	
5	64QAM	12	0	20.66	20.55	20.68	20.90	22.2
5	64QAM	12	7	20.69	20.51	20.63	20.90	
5	64QAM	12	13	20.64	20.52	20.64	20.87	
5	64QAM	25	0	20.66	20.55	20.68	20.93	20.2
5	256QAM	1	0	19.06	18.86	18.80	19.23	
5	256QAM	1	12	18.79	18.76	18.86	19.12	
5	256QAM	1	24	18.96	18.82	18.96	19.26	
5	256QAM	12	0	18.08	18.03	18.02	18.37	19.2
5	256QAM	12	7	18.08	17.92	18.00	18.40	
5	256QAM	12	13	18.03	17.97	18.11	18.38	
5	256QAM	25	0	17.99	17.90	18.04	18.38	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.22	23.15	23.27	23.44	23.8
20	QPSK	1	49	23.07	23.01	23.12	23.28	
20	QPSK	1	99	23.02	22.90	22.99	23.27	
20	QPSK	50	0	21.56	21.48	21.63	21.83	23.2
20	QPSK	50	24	21.50	21.47	21.57	21.73	
20	QPSK	50	50	21.51	21.44	21.49	21.65	
20	QPSK	100	0	21.54	21.48	21.56	21.70	
20	16QAM	1	0	22.77	22.65	22.82	22.95	23.8
20	16QAM	1	49	22.62	22.57	22.68	22.73	
20	16QAM	1	99	22.54	22.40	22.64	22.70	
20	16QAM	50	0	20.65	20.48	20.64	20.84	22.2
20	16QAM	50	24	20.60	20.41	20.62	20.79	
20	16QAM	50	50	20.60	20.42	20.61	20.68	
20	16QAM	100	0	20.61	20.42	20.66	20.80	
20	64QAM	1	0	21.58	21.46	21.57	21.80	23.2
20	64QAM	1	49	21.44	21.39	21.40	21.59	
20	64QAM	1	99	21.38	21.29	21.29	21.47	
20	64QAM	50	0	20.59	20.57	20.65	20.88	22.2
20	64QAM	50	24	20.60	20.55	20.66	20.72	
20	64QAM	50	50	20.49	20.50	20.53	20.72	
20	64QAM	100	0	20.53	20.51	20.61	20.81	
20	256QAM	1	0	19.18	18.97	18.86	19.33	20.2
20	256QAM	1	49	18.95	18.91	19.00	19.25	
20	256QAM	1	99	18.98	18.87	19.00	19.34	
20	256QAM	50	0	18.11	18.14	18.16	18.51	19.2
20	256QAM	50	24	18.21	18.05	18.15	18.48	
20	256QAM	50	50	18.17	18.04	18.18	18.54	
20	256QAM	100	0	18.11	18.06	18.13	18.41	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.20	23.12	23.26	23.41	23.8
15	QPSK	1	37	23.02	22.95	23.10	23.19	
15	QPSK	1	74	23.11	23.00	23.10	23.13	
15	QPSK	36	0	21.61	21.53	21.64	21.82	23.2
15	QPSK	36	20	21.56	21.48	21.59	21.77	
15	QPSK	36	39	21.61	21.46	21.61	21.81	
15	QPSK	75	0	21.61	21.58	21.64	21.81	
15	16QAM	1	0	22.80	22.74	22.88	23.02	23.8
15	16QAM	1	37	22.79	22.72	22.76	22.97	
15	16QAM	1	74	22.68	22.54	22.72	22.80	
15	16QAM	36	0	20.64	20.62	20.68	20.90	22.2
15	16QAM	36	20	20.65	20.54	20.64	20.79	
15	16QAM	36	39	20.58	20.58	20.69	20.76	
15	16QAM	75	0	20.69	20.62	20.73	20.83	
15	64QAM	1	0	21.87	21.48	21.81	21.90	23.2
15	64QAM	1	37	21.67	21.51	21.56	21.81	
15	64QAM	1	74	21.69	21.39	21.55	21.81	
15	64QAM	36	0	20.74	20.59	20.78	20.96	22.2
15	64QAM	36	20	20.64	20.54	20.62	20.86	
15	64QAM	36	39	20.63	20.52	20.71	20.83	
15	64QAM	75	0	20.58	20.55	20.69	20.84	
15	256QAM	1	0	19.10	18.90	18.78	19.18	20.2
15	256QAM	1	37	18.82	18.72	18.83	19.13	
15	256QAM	1	74	18.81	18.76	18.86	19.25	
15	256QAM	36	0	18.10	17.98	18.04	18.29	19.2
15	256QAM	36	20	17.96	17.91	18.00	18.34	
15	256QAM	36	39	18.01	17.91	18.10	18.34	



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**Report No. : FA380306C**

15	256QAM	75	0	18.03	17.90	17.94	18.28	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.24	23.11	23.29	23.38	23.8
10	QPSK	1	25	23.11	22.96	23.13	23.24	
10	QPSK	1	49	23.08	22.94	23.13	23.28	
10	QPSK	25	0	21.62	21.55	21.61	21.85	23.2
10	QPSK	25	12	21.54	21.50	21.56	21.74	
10	QPSK	25	25	21.51	21.55	21.61	21.84	
10	QPSK	50	0	21.56	21.57	21.62	21.82	
10	16QAM	1	0	22.80	22.81	22.74	23.01	23.8
10	16QAM	1	25	22.69	22.68	22.72	22.86	
10	16QAM	1	49	22.78	22.55	22.58	22.82	
10	16QAM	25	0	20.79	20.60	20.75	20.98	22.2
10	16QAM	25	12	20.75	20.68	20.77	20.94	
10	16QAM	25	25	20.65	20.67	20.77	20.92	
10	16QAM	50	0	20.56	20.52	20.60	20.81	
10	64QAM	1	0	21.77	21.36	21.60	21.79	23.2
10	64QAM	1	25	21.55	21.38	21.43	21.66	
10	64QAM	1	49	21.53	21.26	21.44	21.67	
10	64QAM	25	0	20.71	20.52	20.68	20.86	22.2
10	64QAM	25	12	20.63	20.47	20.70	20.79	
10	64QAM	25	25	20.59	20.52	20.65	20.86	
10	64QAM	50	0	20.63	20.52	20.63	20.83	
10	256QAM	1	0	19.07	18.87	18.75	19.24	20.2
10	256QAM	1	25	18.76	18.73	18.81	19.08	
10	256QAM	1	49	18.89	18.80	18.84	19.22	
10	256QAM	25	0	17.99	17.92	18.08	18.33	19.2
10	256QAM	25	12	17.92	17.97	18.03	18.36	
10	256QAM	25	25	18.04	17.82	18.06	18.33	
10	256QAM	50	0	18.01	17.96	17.96	18.27	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.16	23.01	23.21	23.32	23.8
5	QPSK	1	12	23.11	23.17	23.21	23.41	
5	QPSK	1	24	23.18	23.09	23.18	23.28	
5	QPSK	12	0	21.63	21.54	21.65	21.88	23.2
5	QPSK	12	7	21.62	21.59	21.73	21.88	
5	QPSK	12	13	21.63	21.54	21.69	21.86	
5	QPSK	25	0	21.61	21.51	21.68	21.83	23.8
5	16QAM	1	0	22.79	22.68	22.88	23.01	
5	16QAM	1	12	22.83	22.70	22.74	22.96	
5	16QAM	1	24	22.80	22.71	22.83	22.92	
5	16QAM	12	0	20.64	20.55	20.67	20.76	22.2
5	16QAM	12	7	20.62	20.56	20.75	20.90	
5	16QAM	12	13	20.61	20.48	20.63	20.81	
5	16QAM	25	0	20.70	20.66	20.79	20.89	23.2
5	64QAM	1	0	21.41	21.34	21.53	21.68	
5	64QAM	1	12	21.43	21.37	21.41	21.57	
5	64QAM	1	24	21.35	21.26	21.49	21.60	
5	64QAM	12	0	20.56	20.45	20.68	20.81	22.2
5	64QAM	12	7	20.63	20.44	20.58	20.80	
5	64QAM	12	13	20.54	20.44	20.54	20.81	
5	64QAM	25	0	20.60	20.49	20.65	20.88	20.2
5	256QAM	1	0	19.03	18.86	18.75	19.19	
5	256QAM	1	12	18.76	18.67	18.82	19.07	
5	256QAM	1	24	18.90	18.76	18.94	19.17	
5	256QAM	12	0	18.01	17.93	18.02	18.37	19.2
5	256QAM	12	7	18.04	17.89	17.95	18.37	
5	256QAM	12	13	17.96	17.90	18.05	18.38	
5	256QAM	25	0	17.98	17.82	17.98	18.36	



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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.68	23.84	23.82	25.2
20	QPSK	1	49	23.65	23.67	23.55	
20	QPSK	1	99	23.59	23.40	23.25	
20	QPSK	50	0	22.76	22.79	22.74	24.2
20	QPSK	50	24	22.72	22.73	22.61	
20	QPSK	50	50	22.66	22.60	22.45	
20	QPSK	100	0	22.71	22.72	22.59	
20	16QAM	1	0	22.89	23.03	23.19	24.2
20	16QAM	1	49	22.95	22.90	22.88	
20	16QAM	1	99	22.98	22.71	22.61	
20	16QAM	50	0	21.67	21.78	21.78	23.2
20	16QAM	50	24	21.71	21.72	21.63	
20	16QAM	50	50	21.77	21.63	21.44	
20	16QAM	100	0	21.71	21.69	21.57	
20	64QAM	1	0	21.69	21.93	22.12	23.2
20	64QAM	1	49	21.82	21.97	21.85	
20	64QAM	1	99	21.94	21.75	21.66	
20	64QAM	50	0	20.71	20.81	20.82	22.2
20	64QAM	50	24	20.78	20.75	20.67	
20	64QAM	50	50	20.81	20.66	20.50	
20	64QAM	100	0	20.70	20.74	20.63	
20	256QAM	1	0	18.65	18.80	18.83	20.2
20	256QAM	1	49	18.73	18.74	18.61	
20	256QAM	1	99	18.86	18.61	18.53	
20	256QAM	50	0	18.54	18.61	18.67	20.2
20	256QAM	50	24	18.58	18.66	18.55	
20	256QAM	50	50	18.65	18.59	18.42	
20	256QAM	100	0	18.64	18.63	18.60	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.54	23.71	23.68	25.2
15	QPSK	1	37	23.62	23.57	23.45	
15	QPSK	1	74	23.72	23.45	23.31	
15	QPSK	36	0	22.68	22.75	22.68	24.2
15	QPSK	36	20	22.72	22.68	22.56	
15	QPSK	36	39	22.76	22.62	22.46	
15	QPSK	75	0	22.72	22.70	22.55	
15	16QAM	1	0	22.89	23.03	22.98	24.2
15	16QAM	1	37	22.97	22.86	22.80	
15	16QAM	1	74	22.96	22.73	22.57	
15	16QAM	36	0	21.70	21.74	21.71	23.2
15	16QAM	36	20	21.73	21.68	21.59	
15	16QAM	36	39	21.77	21.61	21.49	
15	16QAM	75	0	21.71	21.67	21.56	
15	64QAM	1	0	21.81	21.85	21.98	23.2
15	64QAM	1	37	21.85	21.74	21.68	
15	64QAM	1	74	21.94	21.54	21.42	
15	64QAM	36	0	20.66	20.71	20.72	22.2
15	64QAM	36	20	20.70	20.67	20.59	
15	64QAM	36	39	20.75	20.62	20.49	
15	64QAM	75	0	20.67	20.67	20.52	
15	256QAM	1	0	18.71	18.76	18.75	20.2
15	256QAM	1	37	18.73	18.79	18.71	
15	256QAM	1	74	18.83	18.52	18.57	
15	256QAM	36	0	18.48	18.63	18.60	20.2
15	256QAM	36	20	18.68	18.59	18.51	



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15	256QAM	36	39	18.56	18.62	18.43	
15	256QAM	75	0	18.69	18.67	18.63	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.65	23.75	23.64	25.2
10	QPSK	1	25	23.54	23.49	23.35	
10	QPSK	1	49	23.72	23.51	23.35	
10	QPSK	25	0	22.65	22.69	22.59	24.2
10	QPSK	25	12	22.67	22.66	22.52	
10	QPSK	25	25	22.71	22.61	22.45	
10	QPSK	50	0	22.67	22.66	22.53	
10	16QAM	1	0	22.83	22.88	22.96	24.2
10	16QAM	1	25	22.87	22.82	22.78	
10	16QAM	1	49	22.95	22.69	22.62	
10	16QAM	25	0	21.69	21.72	21.62	23.2
10	16QAM	25	12	21.70	21.68	21.57	
10	16QAM	25	25	21.73	21.61	21.50	
10	16QAM	50	0	21.65	21.64	21.51	
10	64QAM	1	0	21.72	21.85	21.81	23.2
10	64QAM	1	25	21.68	21.70	21.60	
10	64QAM	1	49	21.86	21.71	21.58	
10	64QAM	25	0	20.65	20.69	20.57	22.2
10	64QAM	25	12	20.68	20.65	20.56	
10	64QAM	25	25	20.72	20.61	20.49	
10	64QAM	50	0	20.69	20.64	20.56	
10	256QAM	1	0	18.73	18.69	18.55	20.2
10	256QAM	1	25	18.57	18.63	18.75	
10	256QAM	1	49	18.48	18.58	18.52	
10	256QAM	25	0	18.60	18.51	18.57	20.2
10	256QAM	25	12	18.37	18.55	18.39	
10	256QAM	25	25	18.48	18.60	18.69	
10	256QAM	50	0	18.67	18.62	18.55	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.61	23.61	23.44	25.2
5	QPSK	1	12	23.64	23.55	23.34	
5	QPSK	1	24	23.72	23.57	23.38	
5	QPSK	12	0	22.71	22.69	22.53	24.2
5	QPSK	12	7	22.74	22.68	22.50	
5	QPSK	12	13	22.74	22.64	22.50	
5	QPSK	25	0	22.71	22.66	22.48	
5	16QAM	1	0	22.99	22.95	22.86	24.2
5	16QAM	1	12	22.97	22.88	22.81	
5	16QAM	1	24	23.01	22.78	22.75	
5	16QAM	12	0	21.71	21.67	21.57	23.2
5	16QAM	12	7	21.74	21.65	21.56	
5	16QAM	12	13	21.74	21.60	21.52	
5	16QAM	25	0	21.70	21.65	21.49	
5	64QAM	1	0	21.88	21.86	21.77	23.2
5	64QAM	1	12	21.84	21.85	21.68	
5	64QAM	1	24	21.88	21.70	21.66	
5	64QAM	12	0	20.70	20.67	20.58	22.2
5	64QAM	12	7	20.71	20.66	20.55	
5	64QAM	12	13	20.69	20.61	20.52	
5	64QAM	25	0	20.65	20.65	20.46	
5	256QAM	1	0	18.69	18.75	18.62	20.2
5	256QAM	1	12	18.68	18.71	18.69	
5	256QAM	1	24	18.55	18.53	18.62	
5	256QAM	12	0	18.61	18.63	18.48	20.2
5	256QAM	12	7	18.50	18.47	18.38	
5	256QAM	12	13	18.37	18.59	18.66	
5	256QAM	25	0	18.66	18.63	18.56	
Channel				131987	132322	132657	Tune-up limit





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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	23.69	23.67	23.52	25.2
3	QPSK	1	8	23.58	23.50	23.32	
3	QPSK	1	14	23.68	23.57	23.35	
3	QPSK	8	0	22.64	22.61	22.41	24.2
3	QPSK	8	4	22.66	22.60	22.42	
3	QPSK	8	7	22.65	22.59	22.44	
3	QPSK	15	0	22.69	22.64	22.46	
3	16QAM	1	0	23.01	22.97	22.79	24.2
3	16QAM	1	8	22.90	22.80	22.63	
3	16QAM	1	14	23.02	22.87	22.71	
3	16QAM	8	0	21.66	21.61	21.44	23.2
3	16QAM	8	4	21.68	21.63	21.41	
3	16QAM	8	7	21.69	21.66	21.44	
3	16QAM	15	0	21.66	21.64	21.45	
3	64QAM	1	0	21.79	21.81	21.62	
3	64QAM	1	8	21.79	21.73	21.48	23.2
3	64QAM	1	14	21.89	21.78	21.53	
3	64QAM	8	0	20.68	20.58	20.50	
3	64QAM	8	4	20.70	20.62	20.50	22.2
3	64QAM	8	7	20.69	20.62	20.50	
3	64QAM	15	0	20.67	20.64	20.50	
3	256QAM	1	0	18.80	18.67	18.54	
3	256QAM	1	8	18.63	18.57	18.63	20.2
3	256QAM	1	14	18.56	18.56	18.68	
3	256QAM	8	0	18.59	18.50	18.61	
3	256QAM	8	4	18.40	18.56	18.38	20.2
3	256QAM	8	7	18.50	18.61	18.55	
3	256QAM	15	0	18.61	18.55	18.52	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.74	23.70	23.47	25.2
1.4	QPSK	1	3	23.65	23.60	23.37	
1.4	QPSK	1	5	23.77	23.69	23.45	
1.4	QPSK	3	0	23.71	23.64	23.40	
1.4	QPSK	3	1	23.75	23.69	23.44	
1.4	QPSK	3	3	23.77	23.69	23.44	
1.4	QPSK	6	0	22.71	22.67	22.41	24.2
1.4	16QAM	1	0	23.05	22.96	22.75	24.2
1.4	16QAM	1	3	22.95	22.79	22.62	
1.4	16QAM	1	5	23.05	22.92	22.74	
1.4	16QAM	3	0	22.77	22.83	22.55	
1.4	16QAM	3	1	22.85	22.81	22.57	
1.4	16QAM	3	3	22.81	22.72	22.45	
1.4	16QAM	6	0	21.75	21.71	21.47	23.2
1.4	64QAM	1	0	21.88	21.81	21.59	23.2
1.4	64QAM	1	3	21.82	21.75	21.50	
1.4	64QAM	1	5	21.87	21.81	21.61	
1.4	64QAM	3	0	21.79	21.74	21.54	
1.4	64QAM	3	1	21.79	21.75	21.52	
1.4	64QAM	3	3	21.79	21.72	21.54	
1.4	64QAM	6	0	20.69	20.64	20.53	22.2
1.4	256QAM	1	0	18.73	18.69	18.63	20.2
1.4	256QAM	1	3	18.66	18.67	18.71	
1.4	256QAM	1	5	18.49	18.58	18.61	
1.4	256QAM	3	0	18.61	18.53	18.51	
1.4	256QAM	3	1	18.42	18.51	18.46	
1.4	256QAM	3	3	18.47	18.57	18.61	
1.4	256QAM	6	0	18.63	18.59	18.48	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.68	22.83	22.82	23.3
20	QPSK	1	49	22.60	22.63	22.54	
20	QPSK	1	99	22.49	22.37	22.18	
20	QPSK	50	0	22.76	22.77	22.66	23.3
20	QPSK	50	24	22.71	22.71	22.57	
20	QPSK	50	50	22.57	22.59	22.43	
20	QPSK	100	0	22.67	22.69	22.49	
20	16QAM	1	0	22.32	22.43	22.66	23.3
20	16QAM	1	49	22.44	22.39	22.35	
20	16QAM	1	99	22.44	22.21	22.03	
20	16QAM	50	0	21.65	21.77	21.78	23.2
20	16QAM	50	24	21.68	21.70	21.63	
20	16QAM	50	50	21.72	21.57	21.43	
20	16QAM	100	0	21.63	21.61	21.53	
20	64QAM	1	0	21.69	21.92	22.07	23.2
20	64QAM	1	49	21.72	21.97	21.75	
20	64QAM	1	99	21.93	21.74	21.62	
20	64QAM	50	0	20.67	20.80	20.76	22
20	64QAM	50	24	20.75	20.71	20.61	
20	64QAM	50	50	20.81	20.66	20.45	
20	64QAM	100	0	20.62	20.71	20.60	
20	256QAM	1	0	18.65	18.77	18.75	20.2
20	256QAM	1	49	18.65	18.67	18.53	
20	256QAM	1	99	18.85	18.60	18.50	
20	256QAM	50	0	18.46	18.53	18.61	20.2
20	256QAM	50	24	18.54	18.61	18.47	
20	256QAM	50	50	18.59	18.53	18.41	
20	256QAM	100	0	18.58	18.56	18.58	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.48	22.66	22.65	23.3
15	QPSK	1	37	22.56	22.55	22.36	
15	QPSK	1	74	22.67	22.40	22.25	
15	QPSK	36	0	22.58	22.70	22.65	23.3
15	QPSK	36	20	22.67	22.66	22.52	
15	QPSK	36	39	22.75	22.58	22.43	
15	QPSK	75	0	22.72	22.61	22.47	
15	16QAM	1	0	22.38	22.50	22.44	23.3
15	16QAM	1	37	22.43	22.33	22.25	
15	16QAM	1	74	22.43	22.19	21.98	
15	16QAM	36	0	21.66	21.71	21.69	23.2
15	16QAM	36	20	21.65	21.58	21.53	
15	16QAM	36	39	21.70	21.59	21.44	
15	16QAM	75	0	21.70	21.64	21.55	
15	64QAM	1	0	21.81	21.84	21.98	23.2
15	64QAM	1	37	21.76	21.72	21.68	
15	64QAM	1	74	21.85	21.49	21.32	
15	64QAM	36	0	20.61	20.67	20.70	22
15	64QAM	36	20	20.60	20.62	20.59	
15	64QAM	36	39	20.68	20.52	20.39	
15	64QAM	75	0	20.63	20.62	20.46	
15	256QAM	1	0	18.66	18.69	18.75	20.2
15	256QAM	1	37	18.71	18.69	18.65	
15	256QAM	1	74	18.83	18.45	18.48	



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15	256QAM	36	0	18.38	18.63	18.51	20.2
15	256QAM	36	20	18.65	18.51	18.45	
15	256QAM	36	39	18.51	18.52	18.37	
15	256QAM	75	0	18.60	18.57	18.58	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.65	22.67	22.64	23.3
10	QPSK	1	25	22.48	22.48	22.31	
10	QPSK	1	49	22.65	22.42	22.29	
10	QPSK	25	0	22.63	22.65	22.49	23.3
10	QPSK	25	12	22.64	22.59	22.51	
10	QPSK	25	25	22.66	22.56	22.43	
10	QPSK	50	0	22.62	22.65	22.52	23.3
10	16QAM	1	0	22.24	22.35	22.36	
10	16QAM	1	25	22.27	22.29	22.24	
10	16QAM	1	49	22.35	22.18	22.07	
10	16QAM	25	0	21.60	21.68	21.59	23.2
10	16QAM	25	12	21.66	21.61	21.48	
10	16QAM	25	25	21.67	21.59	21.46	
10	16QAM	50	0	21.58	21.59	21.46	23.2
10	64QAM	1	0	21.64	21.76	21.81	
10	64QAM	1	25	21.61	21.60	21.53	
10	64QAM	1	49	21.78	21.65	21.58	
10	64QAM	25	0	20.63	20.64	20.57	22
10	64QAM	25	12	20.63	20.62	20.53	
10	64QAM	25	25	20.64	20.59	20.47	
10	64QAM	50	0	20.61	20.54	20.52	
10	256QAM	1	0	18.70	18.66	18.54	20.2
10	256QAM	1	25	18.55	18.57	18.69	
10	256QAM	1	49	18.43	18.53	18.44	
10	256QAM	25	0	18.55	18.44	18.57	20.2
10	256QAM	25	12	18.31	18.55	18.32	
10	256QAM	25	25	18.42	18.57	18.68	
10	256QAM	50	0	18.65	18.52	18.47	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.55	22.58	22.39	23.3
5	QPSK	1	12	22.56	22.46	22.34	
5	QPSK	1	24	22.72	22.49	22.37	
5	QPSK	12	0	22.69	22.64	22.46	23.3
5	QPSK	12	7	22.72	22.61	22.50	
5	QPSK	12	13	22.69	22.55	22.43	
5	QPSK	25	0	22.62	22.64	22.48	23.3
5	16QAM	1	0	22.42	22.43	22.30	
5	16QAM	1	12	22.46	22.28	22.23	
5	16QAM	1	24	22.42	22.28	22.19	
5	16QAM	12	0	21.65	21.66	21.56	23.2
5	16QAM	12	7	21.73	21.60	21.55	
5	16QAM	12	13	21.65	21.56	21.48	
5	16QAM	25	0	21.70	21.55	21.41	23.2
5	64QAM	1	0	21.87	21.83	21.67	
5	64QAM	1	12	21.77	21.84	21.63	
5	64QAM	1	24	21.81	21.70	21.65	
5	64QAM	12	0	20.65	20.62	20.56	22
5	64QAM	12	7	20.63	20.66	20.48	
5	64QAM	12	13	20.69	20.53	20.47	
5	64QAM	25	0	20.65	20.65	20.45	
5	256QAM	1	0	18.61	18.73	18.52	20.2
5	256QAM	1	12	18.63	18.64	18.63	
5	256QAM	1	24	18.50	18.43	18.56	
5	256QAM	12	0	18.53	18.54	18.40	20.2
5	256QAM	12	7	18.41	18.47	18.36	
5	256QAM	12	13	18.30	18.58	18.61	



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5	256QAM	25	0	18.63	18.56	18.55	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.59	22.58	22.45	23.3
3	QPSK	1	8	22.52	22.50	22.24	
3	QPSK	1	14	22.67	22.48	22.32	
3	QPSK	8	0	22.61	22.55	22.39	23.3
3	QPSK	8	4	22.66	22.59	22.38	
3	QPSK	8	7	22.57	22.54	22.34	
3	QPSK	15	0	22.62	22.60	22.40	
3	16QAM	1	0	22.45	22.43	22.21	23.3
3	16QAM	1	8	22.30	22.22	22.06	
3	16QAM	1	14	22.45	22.34	22.14	
3	16QAM	8	0	21.63	21.55	21.41	23.2
3	16QAM	8	4	21.61	21.55	21.35	
3	16QAM	8	7	21.63	21.60	21.39	
3	16QAM	15	0	21.65	21.59	21.39	
3	64QAM	1	0	21.74	21.80	21.55	23.2
3	64QAM	1	8	21.70	21.70	21.48	
3	64QAM	1	14	21.82	21.70	21.43	
3	64QAM	8	0	20.64	20.50	20.48	22
3	64QAM	8	4	20.61	20.54	20.49	
3	64QAM	8	7	20.59	20.58	20.45	
3	64QAM	15	0	20.67	20.60	20.44	
3	256QAM	1	0	18.75	18.58	18.51	20.2
3	256QAM	1	8	18.56	18.48	18.60	
3	256QAM	1	14	18.53	18.55	18.60	
3	256QAM	8	0	18.52	18.42	18.61	20.2
3	256QAM	8	4	18.38	18.46	18.30	
3	256QAM	8	7	18.41	18.59	18.46	
3	256QAM	15	0	18.52	18.48	18.42	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.71	22.64	22.38	23.3
1.4	QPSK	1	3	22.57	22.51	22.31	
1.4	QPSK	1	5	22.76	22.62	22.43	
1.4	QPSK	3	0	22.61	22.54	22.36	
1.4	QPSK	3	1	22.71	22.65	22.36	
1.4	QPSK	3	3	22.76	22.64	22.41	
1.4	QPSK	6	0	22.71	22.67	22.38	23.3
1.4	16QAM	1	0	22.45	22.43	22.18	23.3
1.4	16QAM	1	3	22.42	22.21	22.09	
1.4	16QAM	1	5	22.55	22.40	22.18	
1.4	16QAM	3	0	22.21	22.31	21.99	
1.4	16QAM	3	1	22.35	22.30	22.06	
1.4	16QAM	3	3	22.29	22.13	21.92	
1.4	16QAM	6	0	21.66	21.63	21.39	23.2
1.4	64QAM	1	0	21.82	21.71	21.52	23.2
1.4	64QAM	1	3	21.82	21.69	21.46	
1.4	64QAM	1	5	21.79	21.79	21.56	
1.4	64QAM	3	0	21.77	21.74	21.46	
1.4	64QAM	3	1	21.79	21.67	21.42	
1.4	64QAM	3	3	21.70	21.62	21.46	
1.4	64QAM	6	0	20.67	20.62	20.48	22
1.4	256QAM	1	0	18.73	18.60	18.56	20.2
1.4	256QAM	1	3	18.62	18.65	18.71	
1.4	256QAM	1	5	18.41	18.54	18.61	
1.4	256QAM	3	0	18.54	18.52	18.46	
1.4	256QAM	3	1	18.33	18.43	18.44	
1.4	256QAM	3	3	18.47	18.50	18.58	
1.4	256QAM	6	0	18.59	18.55	18.44	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.15	23.30	23.29	23.3
20	QPSK	1	49	23.11	23.15	23.05	
20	QPSK	1	99	23.03	22.87	22.67	
20	QPSK	50	0	22.69	22.74	22.72	23.3
20	QPSK	50	24	22.63	22.73	22.57	
20	QPSK	50	50	22.63	22.50	22.42	
20	QPSK	100	0	22.63	22.65	22.57	
20	16QAM	1	0	22.87	22.97	23.17	23.3
20	16QAM	1	49	22.94	22.85	22.86	
20	16QAM	1	99	22.98	22.71	22.51	
20	16QAM	50	0	21.61	21.70	21.68	23.2
20	16QAM	50	24	21.71	21.64	21.57	
20	16QAM	50	50	21.69	21.56	21.38	
20	16QAM	100	0	21.68	21.67	21.57	
20	64QAM	1	0	21.69	21.84	22.12	23.2
20	64QAM	1	49	21.79	21.89	21.83	
20	64QAM	1	99	21.91	21.73	21.62	
20	64QAM	50	0	20.63	20.79	20.82	22.2
20	64QAM	50	24	20.78	20.66	20.62	
20	64QAM	50	50	20.76	20.65	20.40	
20	64QAM	100	0	20.61	20.68	20.62	
20	256QAM	1	0	18.64	18.73	18.75	20.2
20	256QAM	1	49	18.70	18.67	18.52	
20	256QAM	1	99	18.76	18.61	18.50	
20	256QAM	50	0	18.51	18.57	18.66	20.2
20	256QAM	50	24	18.53	18.60	18.54	
20	256QAM	50	50	18.57	18.53	18.32	
20	256QAM	100	0	18.59	18.57	18.55	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.97	23.21	23.11	23.3
15	QPSK	1	37	23.02	23.00	22.94	
15	QPSK	1	74	23.13	22.89	22.78	
15	QPSK	36	0	22.62	22.68	22.60	23.3
15	QPSK	36	20	22.63	22.65	22.48	
15	QPSK	36	39	22.74	22.55	22.37	
15	QPSK	75	0	22.66	22.67	22.46	
15	16QAM	1	0	22.89	22.93	22.89	23.3
15	16QAM	1	37	22.91	22.81	22.71	
15	16QAM	1	74	22.90	22.71	22.52	
15	16QAM	36	0	21.63	21.68	21.65	23.2
15	16QAM	36	20	21.72	21.60	21.50	
15	16QAM	36	39	21.71	21.55	21.42	
15	16QAM	75	0	21.64	21.58	21.50	
15	64QAM	1	0	21.74	21.84	21.88	23.2
15	64QAM	1	37	21.85	21.67	21.61	
15	64QAM	1	74	21.88	21.44	21.38	
15	64QAM	36	0	20.66	20.71	20.70	22.2
15	64QAM	36	20	20.70	20.58	20.53	
15	64QAM	36	39	20.73	20.57	20.39	
15	64QAM	75	0	20.64	20.61	20.49	
15	256QAM	1	0	18.68	18.68	18.66	20.2
15	256QAM	1	37	18.69	18.77	18.64	
15	256QAM	1	74	18.78	18.51	18.55	
15	256QAM	36	0	18.38	18.53	18.57	20.2
15	256QAM	36	20	18.61	18.55	18.45	



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15	256QAM	36	39	18.51	18.59	18.37	
15	256QAM	75	0	18.69	18.57	18.59	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.15	23.16	23.14	23.3
10	QPSK	1	25	22.95	22.90	22.81	
10	QPSK	1	49	23.17	22.91	22.81	
10	QPSK	25	0	22.65	22.68	22.59	23.3
10	QPSK	25	12	22.60	22.66	22.48	
10	QPSK	25	25	22.62	22.59	22.38	
10	QPSK	50	0	22.64	22.58	22.43	
10	16QAM	1	0	22.75	22.88	22.94	23.3
10	16QAM	1	25	22.86	22.75	22.72	
10	16QAM	1	49	22.85	22.64	22.62	
10	16QAM	25	0	21.63	21.72	21.56	23.2
10	16QAM	25	12	21.62	21.58	21.49	
10	16QAM	25	25	21.69	21.61	21.45	
10	16QAM	50	0	21.58	21.58	21.47	
10	64QAM	1	0	21.64	21.79	21.79	23.2
10	64QAM	1	25	21.68	21.65	21.50	
10	64QAM	1	49	21.80	21.64	21.49	
10	64QAM	25	0	20.58	20.64	20.49	22.2
10	64QAM	25	12	20.65	20.61	20.55	
10	64QAM	25	25	20.71	20.55	20.40	
10	64QAM	50	0	20.61	20.54	20.53	
10	256QAM	1	0	18.65	18.68	18.46	20.2
10	256QAM	1	25	18.53	18.55	18.69	
10	256QAM	1	49	18.41	18.50	18.44	
10	256QAM	25	0	18.57	18.42	18.49	20.2
10	256QAM	25	12	18.27	18.54	18.35	
10	256QAM	25	25	18.43	18.56	18.59	
10	256QAM	50	0	18.65	18.59	18.45	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.04	23.09	22.85	23.3
5	QPSK	1	12	23.06	22.97	22.75	
5	QPSK	1	24	23.16	22.98	22.78	
5	QPSK	12	0	22.70	22.69	22.43	23.3
5	QPSK	12	7	22.69	22.65	22.45	
5	QPSK	12	13	22.70	22.54	22.50	
5	QPSK	25	0	22.62	22.59	22.46	
5	16QAM	1	0	22.90	22.89	22.78	23.3
5	16QAM	1	12	22.89	22.79	22.81	
5	16QAM	1	24	22.92	22.73	22.75	
5	16QAM	12	0	21.67	21.58	21.55	23.2
5	16QAM	12	7	21.69	21.60	21.55	
5	16QAM	12	13	21.64	21.58	21.51	
5	16QAM	25	0	21.61	21.65	21.41	
5	64QAM	1	0	21.78	21.78	21.69	23.2
5	64QAM	1	12	21.81	21.83	21.60	
5	64QAM	1	24	21.82	21.63	21.65	
5	64QAM	12	0	20.62	20.65	20.50	22.2
5	64QAM	12	7	20.69	20.61	20.46	
5	64QAM	12	13	20.60	20.56	20.48	
5	64QAM	25	0	20.65	20.62	20.42	
5	256QAM	1	0	18.69	18.75	18.59	20.2
5	256QAM	1	12	18.61	18.68	18.60	
5	256QAM	1	24	18.54	18.43	18.52	
5	256QAM	12	0	18.53	18.54	18.46	20.2
5	256QAM	12	7	18.45	18.40	18.34	
5	256QAM	12	13	18.35	18.56	18.59	
5	256QAM	25	0	18.57	18.62	18.54	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	23.10	23.11	22.92	23.3
3	QPSK	1	8	23.00	22.93	22.80	
3	QPSK	1	14	23.12	23.07	22.76	
3	QPSK	8	0	22.58	22.59	22.41	23.3
3	QPSK	8	4	22.56	22.59	22.32	
3	QPSK	8	7	22.64	22.59	22.41	
3	QPSK	15	0	22.67	22.64	22.37	23.3
3	16QAM	1	0	22.97	22.94	22.78	
3	16QAM	1	8	22.84	22.77	22.63	
3	16QAM	1	14	22.93	22.82	22.68	23.2
3	16QAM	8	0	21.60	21.56	21.34	
3	16QAM	8	4	21.61	21.56	21.38	
3	16QAM	8	7	21.64	21.57	21.41	23.2
3	16QAM	15	0	21.64	21.61	21.35	
3	64QAM	1	0	21.73	21.75	21.52	
3	64QAM	1	8	21.70	21.66	21.43	22.2
3	64QAM	1	14	21.83	21.68	21.43	
3	64QAM	8	0	20.62	20.49	20.45	
3	64QAM	8	4	20.67	20.52	20.41	20.2
3	64QAM	8	7	20.63	20.54	20.40	
3	64QAM	15	0	20.67	20.57	20.44	
3	256QAM	1	0	18.79	18.60	18.45	20.2
3	256QAM	1	8	18.62	18.53	18.62	
3	256QAM	1	14	18.49	18.52	18.65	
3	256QAM	8	0	18.54	18.41	18.53	20.2
3	256QAM	8	4	18.31	18.49	18.30	
3	256QAM	8	7	18.43	18.60	18.45	
3	256QAM	15	0	18.52	18.55	18.45	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.18	23.19	22.96	23.3
1.4	QPSK	1	3	23.09	23.05	22.87	
1.4	QPSK	1	5	23.20	23.10	22.88	
1.4	QPSK	3	0	23.16	23.08	22.86	23.3
1.4	QPSK	3	1	23.16	23.17	22.89	
1.4	QPSK	3	3	23.24	23.12	22.92	
1.4	QPSK	6	0	22.62	22.63	22.33	23.3
1.4	16QAM	1	0	22.98	22.96	22.69	
1.4	16QAM	1	3	22.92	22.79	22.54	
1.4	16QAM	1	5	22.98	22.83	22.71	23.3
1.4	16QAM	3	0	22.77	22.80	22.47	
1.4	16QAM	3	1	22.83	22.72	22.52	
1.4	16QAM	3	3	22.71	22.66	22.42	23.2
1.4	16QAM	6	0	21.67	21.63	21.43	
1.4	64QAM	1	0	21.80	21.73	21.55	
1.4	64QAM	1	3	21.78	21.69	21.44	23.2
1.4	64QAM	1	5	21.79	21.77	21.59	
1.4	64QAM	3	0	21.70	21.72	21.51	
1.4	64QAM	3	1	21.73	21.66	21.45	22.2
1.4	64QAM	3	3	21.73	21.64	21.47	
1.4	64QAM	6	0	20.63	20.64	20.44	
1.4	256QAM	1	0	18.73	18.64	18.63	20.2
1.4	256QAM	1	3	18.61	18.65	18.71	
1.4	256QAM	1	5	18.44	18.48	18.57	
1.4	256QAM	3	0	18.60	18.48	18.43	20.2
1.4	256QAM	3	1	18.35	18.46	18.44	
1.4	256QAM	3	3	18.41	18.47	18.58	
1.4	256QAM	6	0	18.61	18.59	18.42	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.81	19.82	19.59	21.4
20	QPSK	1	49	19.59	19.65	19.56	
20	QPSK	1	99	19.59	19.63	19.55	
20	QPSK	50	0	19.72	19.73	19.63	21.4
20	QPSK	50	24	19.61	19.66	19.62	
20	QPSK	50	50	19.59	19.59	19.59	
20	QPSK	100	0	19.60	19.67	19.56	
20	16QAM	1	0	19.73	19.74	19.65	21.4
20	16QAM	1	49	19.59	19.63	19.62	
20	16QAM	1	99	19.49	19.59	19.58	
20	16QAM	50	0	19.60	19.67	19.66	21.4
20	16QAM	50	24	19.53	19.58	19.50	
20	16QAM	50	50	19.53	19.54	19.44	
20	16QAM	100	0	19.51	19.57	19.52	
20	64QAM	1	0	19.65	19.72	19.71	21.4
20	64QAM	1	49	19.55	19.59	19.53	
20	64QAM	1	99	19.61	19.63	19.61	
20	64QAM	50	0	19.64	19.72	19.66	21.4
20	64QAM	50	24	19.55	19.60	19.50	
20	64QAM	50	50	19.48	19.55	19.50	
20	64QAM	100	0	19.61	19.67	19.58	
20	256QAM	1	0	19.73	19.79	19.74	20.7
20	256QAM	1	49	19.49	19.57	19.50	
20	256QAM	1	99	19.53	19.58	19.58	
20	256QAM	50	0	19.61	19.65	19.56	20.7
20	256QAM	50	24	19.54	19.58	19.51	
20	256QAM	50	50	19.48	19.58	19.58	
20	256QAM	100	0	19.52	19.59	19.58	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.74	19.73	19.53	21.4
15	QPSK	1	37	19.49	19.61	19.51	
15	QPSK	1	74	19.55	19.56	19.48	
15	QPSK	36	0	19.65	19.73	19.62	21.4
15	QPSK	36	20	19.53	19.58	19.61	
15	QPSK	36	39	19.55	19.55	19.53	
15	QPSK	75	0	19.57	19.63	19.47	
15	16QAM	1	0	19.70	19.68	19.55	21.4
15	16QAM	1	37	19.50	19.60	19.54	
15	16QAM	1	74	19.42	19.52	19.58	
15	16QAM	36	0	19.60	19.62	19.60	21.4
15	16QAM	36	20	19.44	19.56	19.46	
15	16QAM	36	39	19.51	19.47	19.45	
15	16QAM	75	0	19.41	19.55	19.49	
15	64QAM	1	0	19.63	19.69	19.63	21.4
15	64QAM	1	37	19.52	19.51	19.49	
15	64QAM	1	74	19.59	19.54	19.55	
15	64QAM	36	0	19.54	19.71	19.62	21.4
15	64QAM	36	20	19.53	19.55	19.45	
15	64QAM	36	39	19.43	19.52	19.45	
15	64QAM	75	0	19.58	19.66	19.49	
15	256QAM	1	0	19.69	19.77	19.66	20.7
15	256QAM	1	37	19.45	19.54	19.48	
15	256QAM	1	74	19.52	19.57	19.55	





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15	256QAM	36	0	19.53	19.65	19.51	20.7
15	256QAM	36	20	19.46	19.57	19.47	
15	256QAM	36	39	19.45	19.53	19.51	
15	256QAM	75	0	19.42	19.50	19.52	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.77	19.79	19.54	21.4
10	QPSK	1	25	19.49	19.59	19.53	
10	QPSK	1	49	19.50	19.58	19.46	
10	QPSK	25	0	19.65	19.68	19.58	21.4
10	QPSK	25	12	19.52	19.57	19.56	
10	QPSK	25	25	19.55	19.59	19.51	
10	QPSK	50	0	19.60	19.67	19.56	21.4
10	16QAM	1	0	19.68	19.70	19.56	
10	16QAM	1	25	19.58	19.55	19.56	
10	16QAM	1	49	19.45	19.58	19.58	21.4
10	16QAM	25	0	19.53	19.62	19.63	
10	16QAM	25	12	19.49	19.58	19.48	
10	16QAM	25	25	19.53	19.54	19.58	21.4
10	16QAM	50	0	19.43	19.50	19.48	
10	64QAM	1	0	19.55	19.64	19.70	
10	64QAM	1	25	19.46	19.56	19.43	21.4
10	64QAM	1	49	19.53	19.61	19.61	
10	64QAM	25	0	19.63	19.65	19.57	
10	64QAM	25	12	19.49	19.51	19.48	21.4
10	64QAM	25	25	19.46	19.52	19.42	
10	64QAM	50	0	19.54	19.60	19.53	
10	256QAM	1	0	19.64	19.76	19.70	20.7
10	256QAM	1	25	19.49	19.54	19.49	
10	256QAM	1	49	19.45	19.51	19.58	
10	256QAM	25	0	19.51	19.63	19.54	20.7
10	256QAM	25	12	19.52	19.51	19.47	
10	256QAM	25	25	19.40	19.55	19.52	
10	256QAM	50	0	19.52	19.51	19.52	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.80	19.80	19.50	21.4
5	QPSK	1	12	19.50	19.56	19.56	
5	QPSK	1	24	19.50	19.59	19.48	
5	QPSK	12	0	19.71	19.64	19.56	21.4
5	QPSK	12	7	19.61	19.66	19.61	
5	QPSK	12	13	19.55	19.59	19.50	
5	QPSK	25	0	19.52	19.61	19.49	21.4
5	16QAM	1	0	19.68	19.64	19.58	
5	16QAM	1	12	19.55	19.63	19.53	
5	16QAM	1	24	19.51	19.49	19.50	21.4
5	16QAM	12	0	19.50	19.59	19.61	
5	16QAM	12	7	19.43	19.51	19.47	
5	16QAM	12	13	19.49	19.44	19.60	21.4
5	16QAM	25	0	19.41	19.54	19.48	
5	64QAM	1	0	19.55	19.67	19.62	
5	64QAM	1	12	19.47	19.52	19.49	21.4
5	64QAM	1	24	19.58	19.53	19.52	
5	64QAM	12	0	19.60	19.72	19.62	
5	64QAM	12	7	19.49	19.60	19.43	21.4
5	64QAM	12	13	19.46	19.54	19.50	
5	64QAM	25	0	19.56	19.58	19.54	
5	256QAM	1	0	19.69	19.77	19.67	20.7
5	256QAM	1	12	19.39	19.56	19.45	
5	256QAM	1	24	19.53	19.49	19.56	
5	256QAM	12	0	19.57	19.61	19.50	20.7
5	256QAM	12	7	19.49	19.56	19.49	
5	256QAM	12	13	19.42	19.55	19.54	



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5	256QAM	25	0	19.51	19.51	19.50	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	19.77	19.82	19.51	21.4
3	QPSK	1	8	19.56	19.65	19.51	
3	QPSK	1	14	19.54	19.56	19.47	
3	QPSK	8	0	19.72	19.73	19.60	21.4
3	QPSK	8	4	19.56	19.62	19.59	
3	QPSK	8	7	19.58	19.50	19.55	
3	QPSK	15	0	19.56	19.62	19.51	
3	16QAM	1	0	19.65	19.67	19.58	21.4
3	16QAM	1	8	19.55	19.61	19.54	
3	16QAM	1	14	19.51	19.58	19.49	
3	16QAM	8	0	19.54	19.61	19.62	21.4
3	16QAM	8	4	19.53	19.57	19.48	
3	16QAM	8	7	19.43	19.46	19.58	
3	16QAM	15	0	19.49	19.47	19.45	
3	64QAM	1	0	19.56	19.72	19.62	
3	64QAM	1	8	19.53	19.49	19.45	21.4
3	64QAM	1	14	19.54	19.54	19.54	
3	64QAM	8	0	19.64	19.68	19.64	
3	64QAM	8	4	19.47	19.57	19.41	21.4
3	64QAM	8	7	19.45	19.52	19.43	
3	64QAM	15	0	19.57	19.66	19.51	
3	256QAM	1	0	19.63	19.77	19.73	
3	256QAM	1	8	19.39	19.54	19.42	20.7
3	256QAM	1	14	19.45	19.52	19.58	
3	256QAM	8	0	19.58	19.59	19.55	
3	256QAM	8	4	19.46	19.50	19.41	20.7
3	256QAM	8	7	19.44	19.54	19.50	
3	256QAM	15	0	19.44	19.58	19.51	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.73	19.78	19.53	21.4
1.4	QPSK	1	3	19.52	19.57	19.52	
1.4	QPSK	1	5	19.53	19.55	19.47	
1.4	QPSK	3	0	19.71	19.65	19.56	
1.4	QPSK	3	1	19.52	19.56	19.62	
1.4	QPSK	3	3	19.53	19.59	19.50	
1.4	QPSK	6	0	19.55	19.66	19.55	21.4
1.4	16QAM	1	0	19.63	19.65	19.63	21.4
1.4	16QAM	1	3	19.56	19.62	19.52	
1.4	16QAM	1	5	19.50	19.58	19.54	
1.4	16QAM	3	0	19.58	19.60	19.61	
1.4	16QAM	3	1	19.47	19.54	19.43	
1.4	16QAM	3	3	19.50	19.52	19.59	
1.4	16QAM	6	0	19.49	19.48	19.52	21.4
1.4	64QAM	1	0	19.62	19.63	19.62	21.4
1.4	64QAM	1	3	19.52	19.49	19.44	
1.4	64QAM	1	5	19.60	19.53	19.53	
1.4	64QAM	3	0	19.61	19.71	19.63	
1.4	64QAM	3	1	19.45	19.60	19.47	
1.4	64QAM	3	3	19.45	19.45	19.41	
1.4	64QAM	6	0	19.52	19.63	19.55	21.4
1.4	256QAM	1	0	19.63	19.70	19.67	20.7
1.4	256QAM	1	3	19.46	19.52	19.48	
1.4	256QAM	1	5	19.48	19.54	19.49	
1.4	256QAM	3	0	19.59	19.58	19.56	
1.4	256QAM	3	1	19.44	19.48	19.41	
1.4	256QAM	3	3	19.47	19.53	19.51	
1.4	256QAM	6	0	19.46	19.58	19.48	20.7



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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.81	19.82	19.59	20.6
20	QPSK	1	49	19.59	19.65	19.56	
20	QPSK	1	99	19.59	19.63	19.55	
20	QPSK	50	0	19.72	19.73	19.63	20.6
20	QPSK	50	24	19.61	19.66	19.62	
20	QPSK	50	50	19.59	19.59	19.59	
20	QPSK	100	0	19.60	19.67	19.56	
20	16QAM	1	0	19.73	19.74	19.65	20.6
20	16QAM	1	49	19.59	19.63	19.62	
20	16QAM	1	99	19.49	19.59	19.58	
20	16QAM	50	0	19.60	19.67	19.66	20.6
20	16QAM	50	24	19.53	19.58	19.50	
20	16QAM	50	50	19.53	19.54	19.44	
20	16QAM	100	0	19.51	19.57	19.52	
20	64QAM	1	0	19.65	19.72	19.71	20.6
20	64QAM	1	49	19.55	19.59	19.53	
20	64QAM	1	99	19.61	19.63	19.61	
20	64QAM	50	0	19.64	19.72	19.66	20.6
20	64QAM	50	24	19.55	19.60	19.50	
20	64QAM	50	50	19.48	19.55	19.50	
20	64QAM	100	0	19.61	19.67	19.58	
20	256QAM	1	0	19.73	19.79	19.74	20.6
20	256QAM	1	49	19.49	19.57	19.50	
20	256QAM	1	99	19.53	19.58	19.58	
20	256QAM	50	0	19.61	19.65	19.56	20.6
20	256QAM	50	24	19.54	19.58	19.51	
20	256QAM	50	50	19.48	19.58	19.58	
20	256QAM	100	0	19.52	19.59	19.58	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.74	19.73	19.53	20.6
15	QPSK	1	37	19.49	19.61	19.51	
15	QPSK	1	74	19.55	19.56	19.48	
15	QPSK	36	0	19.65	19.73	19.62	20.6
15	QPSK	36	20	19.53	19.58	19.61	
15	QPSK	36	39	19.55	19.55	19.53	
15	QPSK	75	0	19.57	19.63	19.47	
15	16QAM	1	0	19.70	19.68	19.55	20.6
15	16QAM	1	37	19.50	19.60	19.54	
15	16QAM	1	74	19.42	19.52	19.58	
15	16QAM	36	0	19.60	19.62	19.60	20.6
15	16QAM	36	20	19.44	19.56	19.46	
15	16QAM	36	39	19.51	19.47	19.45	
15	16QAM	75	0	19.41	19.55	19.49	
15	64QAM	1	0	19.63	19.69	19.63	20.6
15	64QAM	1	37	19.52	19.51	19.49	
15	64QAM	1	74	19.59	19.54	19.55	
15	64QAM	36	0	19.54	19.71	19.62	20.6
15	64QAM	36	20	19.53	19.55	19.45	
15	64QAM	36	39	19.43	19.52	19.45	
15	64QAM	75	0	19.58	19.66	19.49	
15	256QAM	1	0	19.69	19.77	19.66	20.6
15	256QAM	1	37	19.45	19.54	19.48	
15	256QAM	1	74	19.52	19.57	19.55	
15	256QAM	36	0	19.53	19.65	19.51	20.6
15	256QAM	36	20	19.46	19.57	19.47	



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15	256QAM	36	39	19.45	19.53	19.51	
15	256QAM	75	0	19.42	19.50	19.52	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.77	19.79	19.54	20.6
10	QPSK	1	25	19.49	19.59	19.53	
10	QPSK	1	49	19.50	19.58	19.46	
10	QPSK	25	0	19.65	19.68	19.58	20.6
10	QPSK	25	12	19.52	19.57	19.56	
10	QPSK	25	25	19.55	19.59	19.51	
10	QPSK	50	0	19.60	19.67	19.56	
10	16QAM	1	0	19.68	19.70	19.56	
10	16QAM	1	25	19.58	19.55	19.56	20.6
10	16QAM	1	49	19.45	19.58	19.58	
10	16QAM	25	0	19.53	19.62	19.63	20.6
10	16QAM	25	12	19.49	19.58	19.48	
10	16QAM	25	25	19.53	19.54	19.58	
10	16QAM	50	0	19.43	19.50	19.48	
10	64QAM	1	0	19.55	19.64	19.70	
10	64QAM	1	25	19.46	19.56	19.43	20.6
10	64QAM	1	49	19.53	19.61	19.61	
10	64QAM	25	0	19.63	19.65	19.57	
10	64QAM	25	12	19.49	19.51	19.48	20.6
10	64QAM	25	25	19.46	19.52	19.42	
10	64QAM	50	0	19.54	19.60	19.53	
10	256QAM	1	0	19.64	19.76	19.70	
10	256QAM	1	25	19.49	19.54	19.49	
10	256QAM	1	49	19.45	19.51	19.58	20.6
10	256QAM	25	0	19.51	19.63	19.54	
10	256QAM	25	12	19.52	19.51	19.47	
10	256QAM	25	25	19.40	19.55	19.52	
10	256QAM	50	0	19.52	19.51	19.52	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.80	19.80	19.50	20.6
5	QPSK	1	12	19.50	19.56	19.56	
5	QPSK	1	24	19.50	19.59	19.48	
5	QPSK	12	0	19.71	19.64	19.56	20.6
5	QPSK	12	7	19.61	19.66	19.61	
5	QPSK	12	13	19.55	19.59	19.50	
5	QPSK	25	0	19.52	19.61	19.49	
5	16QAM	1	0	19.68	19.64	19.58	
5	16QAM	1	12	19.55	19.63	19.53	20.6
5	16QAM	1	24	19.51	19.49	19.50	
5	16QAM	12	0	19.50	19.59	19.61	
5	16QAM	12	7	19.43	19.51	19.47	20.6
5	16QAM	12	13	19.49	19.44	19.60	
5	16QAM	25	0	19.41	19.54	19.48	
5	64QAM	1	0	19.55	19.67	19.62	
5	64QAM	1	12	19.47	19.52	19.49	
5	64QAM	1	24	19.58	19.53	19.52	20.6
5	64QAM	12	0	19.60	19.72	19.62	
5	64QAM	12	7	19.49	19.60	19.43	
5	64QAM	12	13	19.46	19.54	19.50	
5	64QAM	25	0	19.56	19.58	19.54	
5	256QAM	1	0	19.69	19.77	19.67	20.6
5	256QAM	1	12	19.39	19.56	19.45	
5	256QAM	1	24	19.53	19.49	19.56	
5	256QAM	12	0	19.57	19.61	19.50	
5	256QAM	12	7	19.49	19.56	19.49	
5	256QAM	12	13	19.42	19.55	19.54	20.6
5	256QAM	25	0	19.51	19.51	19.50	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	19.77	19.82	19.51	20.6
3	QPSK	1	8	19.56	19.65	19.51	
3	QPSK	1	14	19.54	19.56	19.47	
3	QPSK	8	0	19.72	19.73	19.60	20.6
3	QPSK	8	4	19.56	19.62	19.59	
3	QPSK	8	7	19.58	19.50	19.55	
3	QPSK	15	0	19.56	19.62	19.51	20.6
3	16QAM	1	0	19.65	19.67	19.58	
3	16QAM	1	8	19.55	19.61	19.54	
3	16QAM	1	14	19.51	19.58	19.49	20.6
3	16QAM	8	0	19.54	19.61	19.62	
3	16QAM	8	4	19.53	19.57	19.48	
3	16QAM	8	7	19.43	19.46	19.58	20.6
3	16QAM	15	0	19.49	19.47	19.45	
3	64QAM	1	0	19.56	19.72	19.62	
3	64QAM	1	8	19.53	19.49	19.45	20.6
3	64QAM	1	14	19.54	19.54	19.54	
3	64QAM	8	0	19.64	19.68	19.64	
3	64QAM	8	4	19.47	19.57	19.41	20.6
3	64QAM	8	7	19.45	19.52	19.43	
3	64QAM	15	0	19.57	19.66	19.51	
3	256QAM	1	0	19.63	19.77	19.73	20.6
3	256QAM	1	8	19.39	19.54	19.42	
3	256QAM	1	14	19.45	19.52	19.58	
3	256QAM	8	0	19.58	19.59	19.55	20.6
3	256QAM	8	4	19.46	19.50	19.41	
3	256QAM	8	7	19.44	19.54	19.50	
3	256QAM	15	0	19.44	19.58	19.51	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.73	19.78	19.53	20.6
1.4	QPSK	1	3	19.52	19.57	19.52	
1.4	QPSK	1	5	19.53	19.55	19.47	
1.4	QPSK	3	0	19.71	19.65	19.56	20.6
1.4	QPSK	3	1	19.52	19.56	19.62	
1.4	QPSK	3	3	19.53	19.59	19.50	
1.4	QPSK	6	0	19.55	19.66	19.55	20.6
1.4	16QAM	1	0	19.63	19.65	19.63	
1.4	16QAM	1	3	19.56	19.62	19.52	
1.4	16QAM	1	5	19.50	19.58	19.54	20.6
1.4	16QAM	3	0	19.58	19.60	19.61	
1.4	16QAM	3	1	19.47	19.54	19.43	
1.4	16QAM	3	3	19.50	19.52	19.59	20.6
1.4	16QAM	6	0	19.49	19.48	19.52	
1.4	64QAM	1	0	19.62	19.63	19.62	
1.4	64QAM	1	3	19.52	19.49	19.44	20.6
1.4	64QAM	1	5	19.60	19.53	19.53	
1.4	64QAM	3	0	19.61	19.71	19.63	
1.4	64QAM	3	1	19.45	19.60	19.47	20.6
1.4	64QAM	3	3	19.45	19.45	19.41	
1.4	64QAM	6	0	19.52	19.63	19.55	
1.4	256QAM	1	0	19.63	19.70	19.67	20.6
1.4	256QAM	1	3	19.46	19.52	19.48	
1.4	256QAM	1	5	19.48	19.54	19.49	
1.4	256QAM	3	0	19.59	19.58	19.56	20.6
1.4	256QAM	3	1	19.44	19.48	19.41	
1.4	256QAM	3	3	19.47	19.53	19.51	
1.4	256QAM	6	0	19.46	19.58	19.48	20.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.76	24.81	24.70	25.7
20	QPSK	1	49	24.69	24.73	24.62	
20	QPSK	1	99	24.53	24.70	24.55	
20	QPSK	50	0	23.69	23.71	23.57	24.7
20	QPSK	50	24	23.66	23.64	23.55	
20	QPSK	50	50	23.56	23.57	23.54	
20	QPSK	100	0	23.60	23.65	23.56	24.7
20	16QAM	1	0	23.90	23.99	23.80	
20	16QAM	1	49	23.73	23.88	23.71	
20	16QAM	1	99	23.70	23.69	23.72	23.7
20	16QAM	50	0	22.72	22.73	22.61	
20	16QAM	50	24	22.66	22.66	22.58	
20	16QAM	50	50	22.58	22.58	22.58	23.7
20	16QAM	100	0	22.53	22.69	22.60	
20	64QAM	1	0	22.88	22.89	22.77	
20	64QAM	1	49	22.84	22.78	22.76	23.7
20	64QAM	1	99	22.65	22.61	22.73	
20	64QAM	50	0	21.69	21.70	21.57	
20	64QAM	50	24	21.60	21.62	21.56	22.7
20	64QAM	50	50	21.54	21.54	21.53	
20	64QAM	100	0	21.54	21.60	21.53	
20	256QAM	1	0	19.80	19.79	19.61	20.7
20	256QAM	1	49	19.75	19.63	19.60	
20	256QAM	1	99	19.55	19.53	19.56	
20	256QAM	50	0	19.58	19.63	19.45	20.7
20	256QAM	50	24	19.53	19.53	19.43	
20	256QAM	50	50	19.47	19.48	19.43	
20	256QAM	100	0	19.52	19.56	19.45	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.68	24.73	24.61	25.7
15	QPSK	1	37	24.62	24.63	24.55	
15	QPSK	1	74	24.43	24.61	24.48	
15	QPSK	36	0	23.61	23.63	23.51	24.7
15	QPSK	36	20	23.57	23.54	23.48	
15	QPSK	36	39	23.51	23.47	23.49	
15	QPSK	75	0	23.55	23.59	23.47	24.7
15	16QAM	1	0	23.85	23.89	23.71	
15	16QAM	1	37	23.66	23.79	23.62	
15	16QAM	1	74	23.64	23.64	23.65	23.7
15	16QAM	36	0	22.63	22.66	22.52	
15	16QAM	36	20	22.60	22.58	22.48	
15	16QAM	36	39	22.51	22.52	22.51	23.7
15	16QAM	75	0	22.48	22.60	22.51	
15	64QAM	1	0	22.81	22.82	22.69	
15	64QAM	1	37	22.78	22.72	22.70	23.7
15	64QAM	1	74	22.60	22.55	22.66	
15	64QAM	36	0	21.60	21.63	21.47	
15	64QAM	36	20	21.54	21.55	21.48	22.7
15	64QAM	36	39	21.47	21.46	21.45	
15	64QAM	75	0	21.46	21.53	21.43	
15	256QAM	1	0	19.70	19.69	19.55	20.7
15	256QAM	1	37	19.66	19.58	19.53	
15	256QAM	1	74	19.46	19.45	19.50	
15	256QAM	36	0	19.51	19.53	19.38	20.7
15	256QAM	36	20	19.48	19.48	19.33	



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15	256QAM	36	39	19.38	19.41	19.33	
15	256QAM	75	0	19.44	19.50	19.40	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.68	24.74	24.63	25.7
10	QPSK	1	25	24.60	24.64	24.54	
10	QPSK	1	49	24.45	24.61	24.50	
10	QPSK	25	0	23.60	23.64	23.47	24.7
10	QPSK	25	12	23.58	23.55	23.48	
10	QPSK	25	25	23.50	23.52	23.49	
10	QPSK	50	0	23.52	23.59	23.49	
10	16QAM	1	0	23.84	23.91	23.71	24.7
10	16QAM	1	25	23.64	23.82	23.62	
10	16QAM	1	49	23.62	23.59	23.67	
10	16QAM	25	0	22.62	22.66	22.54	23.7
10	16QAM	25	12	22.61	22.60	22.50	
10	16QAM	25	25	22.51	22.48	22.50	
10	16QAM	50	0	22.46	22.62	22.55	
10	64QAM	1	0	22.78	22.82	22.67	23.7
10	64QAM	1	25	22.76	22.68	22.71	
10	64QAM	1	49	22.58	22.54	22.68	
10	64QAM	25	0	21.62	21.65	21.50	22.7
10	64QAM	25	12	21.51	21.55	21.48	
10	64QAM	25	25	21.47	21.49	21.43	
10	64QAM	50	0	21.48	21.53	21.45	
10	256QAM	1	0	19.75	19.74	19.54	20.7
10	256QAM	1	25	19.68	19.56	19.52	
10	256QAM	1	49	19.49	19.47	19.49	
10	256QAM	25	0	19.52	19.57	19.40	20.7
10	256QAM	25	12	19.45	19.48	19.35	
10	256QAM	25	25	19.39	19.38	19.38	
10	256QAM	50	0	19.46	19.46	19.35	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.67	24.72	24.62	25.7
5	QPSK	1	12	24.63	24.63	24.52	
5	QPSK	1	24	24.44	24.64	24.46	
5	QPSK	12	0	23.63	23.65	23.50	24.7
5	QPSK	12	7	23.57	23.54	23.46	
5	QPSK	12	13	23.46	23.48	23.49	
5	QPSK	25	0	23.51	23.55	23.48	
5	16QAM	1	0	23.84	23.90	23.72	24.7
5	16QAM	1	12	23.63	23.83	23.65	
5	16QAM	1	24	23.64	23.64	23.62	
5	16QAM	12	0	22.65	22.67	22.55	23.7
5	16QAM	12	7	22.56	22.59	22.52	
5	16QAM	12	13	22.51	22.50	22.48	
5	16QAM	25	0	22.45	22.61	22.50	
5	64QAM	1	0	22.79	22.80	22.70	23.7
5	64QAM	1	12	22.77	22.72	22.70	
5	64QAM	1	24	22.56	22.55	22.65	
5	64QAM	12	0	21.59	21.62	21.51	22.7
5	64QAM	12	7	21.53	21.57	21.50	
5	64QAM	12	13	21.49	21.48	21.47	
5	64QAM	25	0	21.49	21.51	21.45	
5	256QAM	1	0	19.70	19.72	19.55	20.7
5	256QAM	1	12	19.70	19.54	19.55	
5	256QAM	1	24	19.47	19.44	19.51	
5	256QAM	12	0	19.53	19.54	19.39	20.7
5	256QAM	12	7	19.48	19.45	19.34	
5	256QAM	12	13	19.41	19.39	19.36	
5	256QAM	25	0	19.42	19.47	19.38	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	24.70	24.73	24.64	25.7
3	QPSK	1	8	24.61	24.67	24.55	
3	QPSK	1	14	24.46	24.60	24.48	
3	QPSK	8	0	23.60	23.66	23.52	24.7
3	QPSK	8	4	23.58	23.55	23.50	
3	QPSK	8	7	23.49	23.49	23.49	
3	QPSK	15	0	23.53	23.58	23.47	24.7
3	16QAM	1	0	23.84	23.93	23.71	
3	16QAM	1	8	23.65	23.83	23.66	
3	16QAM	1	14	23.65	23.61	23.65	23.7
3	16QAM	8	0	22.64	22.68	22.51	
3	16QAM	8	4	22.59	22.59	22.52	
3	16QAM	8	7	22.51	22.53	22.48	23.7
3	16QAM	15	0	22.48	22.64	22.50	
3	64QAM	1	0	22.78	22.81	22.67	
3	64QAM	1	8	22.76	22.69	22.70	22.7
3	64QAM	1	14	22.60	22.56	22.64	
3	64QAM	8	0	21.63	21.63	21.49	
3	64QAM	8	4	21.54	21.55	21.49	20.7
3	64QAM	8	7	21.49	21.46	21.46	
3	64QAM	15	0	21.46	21.53	21.44	
3	256QAM	1	0	19.73	19.72	19.51	20.7
3	256QAM	1	8	19.68	19.54	19.53	
3	256QAM	1	14	19.50	19.48	19.50	
3	256QAM	8	0	19.52	19.57	19.35	20.7
3	256QAM	8	4	19.46	19.44	19.34	
3	256QAM	8	7	19.39	19.38	19.37	
3	256QAM	15	0	19.45	19.49	19.36	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.50	24.52	24.47	25.7
1.4	QPSK	1	3	24.31	24.35	24.33	
1.4	QPSK	1	5	24.23	24.27	24.23	
1.4	QPSK	3	0	24.27	24.31	24.26	
1.4	QPSK	3	1	24.25	24.29	24.28	
1.4	QPSK	3	3	24.20	24.24	24.19	24.7
1.4	QPSK	6	0	23.25	23.28	23.27	
1.4	16QAM	1	0	23.52	23.57	23.54	
1.4	16QAM	1	3	23.55	23.57	23.55	24.7
1.4	16QAM	1	5	23.58	23.60	23.55	
1.4	16QAM	3	0	23.26	23.27	23.23	
1.4	16QAM	3	1	23.24	23.26	23.24	
1.4	16QAM	3	3	23.21	23.26	23.25	
1.4	16QAM	6	0	22.33	22.38	22.36	23.7
1.4	64QAM	1	0	22.66	22.70	22.68	23.7
1.4	64QAM	1	3	22.51	22.52	22.49	
1.4	64QAM	1	5	22.58	22.63	22.60	
1.4	64QAM	3	0	22.42	22.43	22.38	
1.4	64QAM	3	1	22.43	22.44	22.41	
1.4	64QAM	3	3	22.38	22.41	22.37	22.7
1.4	64QAM	6	0	21.29	21.33	21.28	
1.4	256QAM	1	0	19.42	19.44	19.42	
1.4	256QAM	1	3	19.39	19.40	19.36	20.7
1.4	256QAM	1	5	19.42	19.43	19.40	
1.4	256QAM	3	0	19.30	19.33	19.31	
1.4	256QAM	3	1	19.28	19.32	19.31	
1.4	256QAM	3	3	19.27	19.30	19.25	
1.4	256QAM	6	0	19.38	19.40	19.39	20.7





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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.41	24.64	24.58	25.7
20	QPSK	1	49	24.36	24.36	24.34	
20	QPSK	1	99	24.40	24.17	24.08	
20	QPSK	50	0	23.46	23.53	23.49	24.7
20	QPSK	50	24	23.45	23.46	23.45	
20	QPSK	50	50	23.45	23.35	23.28	
20	QPSK	100	0	23.44	23.47	23.46	
20	16QAM	1	0	23.60	23.87	23.87	24.7
20	16QAM	1	49	23.62	23.67	23.70	
20	16QAM	1	99	23.65	23.44	23.42	
20	16QAM	50	0	22.39	22.52	22.59	23.7
20	16QAM	50	24	22.40	22.47	22.42	
20	16QAM	50	50	22.43	22.33	22.25	
20	16QAM	100	0	22.41	22.41	22.40	
20	64QAM	1	0	22.47	22.77	22.80	23.7
20	64QAM	1	49	22.53	22.57	22.60	
20	64QAM	1	99	22.59	22.40	22.36	
20	64QAM	50	0	21.45	21.55	21.61	22.7
20	64QAM	50	24	21.48	21.51	21.48	
20	64QAM	50	50	21.49	21.39	21.32	
20	64QAM	100	0	21.44	21.44	21.44	
20	256QAM	1	0	19.58	19.62	19.84	20.7
20	256QAM	1	49	19.68	19.57	19.67	
20	256QAM	1	99	19.72	19.50	19.57	
20	256QAM	50	0	19.40	19.54	19.61	20.7
20	256QAM	50	24	19.45	19.48	19.49	
20	256QAM	50	50	19.53	19.43	19.40	
20	256QAM	100	0	19.51	19.55	19.53	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.42	24.58	24.63	25.7
15	QPSK	1	37	24.45	24.47	24.44	
15	QPSK	1	74	24.54	24.35	24.28	
15	QPSK	36	0	23.54	23.63	23.66	24.7
15	QPSK	36	20	23.56	23.57	23.53	
15	QPSK	36	39	23.60	23.51	23.43	
15	QPSK	75	0	23.57	23.58	23.55	
15	16QAM	1	0	23.72	23.90	24.09	24.7
15	16QAM	1	37	23.74	23.82	23.81	
15	16QAM	1	74	23.75	23.63	23.63	
15	16QAM	36	0	22.55	22.64	22.67	23.7
15	16QAM	36	20	22.56	22.58	22.56	
15	16QAM	36	39	22.57	22.49	22.45	
15	16QAM	75	0	22.55	22.56	22.53	
15	64QAM	1	0	22.66	22.81	23.02	23.7
15	64QAM	1	37	22.67	22.82	22.79	
15	64QAM	1	74	22.64	22.67	22.59	
15	64QAM	36	0	21.53	21.64	21.66	22.7
15	64QAM	36	20	21.59	21.59	21.54	
15	64QAM	36	39	21.60	21.52	21.47	
15	64QAM	75	0	21.57	21.57	21.55	
15	256QAM	1	0	19.42	19.47	19.65	20.7
15	256QAM	1	37	19.49	19.45	19.54	
15	256QAM	1	74	19.54	19.36	19.39	
15	256QAM	36	0	19.27	19.40	19.46	20.7
15	256QAM	36	20	19.27	19.35	19.34	



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15	256QAM	36	39	19.38	19.32	19.26	
15	256QAM	75	0	19.41	19.41	19.41	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.23	24.35	24.35	25.7
10	QPSK	1	25	24.13	24.08	24.06	
10	QPSK	1	49	24.24	24.11	24.00	
10	QPSK	25	0	23.26	23.33	23.31	24.7
10	QPSK	25	12	23.28	23.29	23.23	
10	QPSK	25	25	23.31	23.25	23.18	
10	QPSK	50	0	23.28	23.28	23.25	
10	16QAM	1	0	23.46	23.60	23.64	
10	16QAM	1	25	23.47	23.54	23.52	24.7
10	16QAM	1	49	23.55	23.42	23.37	
10	16QAM	25	0	22.29	22.38	22.35	23.7
10	16QAM	25	12	22.35	22.35	22.27	
10	16QAM	25	25	22.36	22.30	22.25	
10	16QAM	50	0	22.29	22.30	22.30	
10	64QAM	1	0	22.45	22.53	22.59	
10	64QAM	1	25	22.41	22.42	22.43	23.7
10	64QAM	1	49	22.58	22.45	22.45	
10	64QAM	25	0	21.30	21.39	21.36	
10	64QAM	25	12	21.33	21.33	21.29	22.7
10	64QAM	25	25	21.35	21.28	21.25	
10	64QAM	50	0	21.33	21.35	21.33	
10	256QAM	1	0	19.40	19.44	19.71	20.7
10	256QAM	1	25	19.58	19.37	19.56	
10	256QAM	1	49	19.53	19.33	19.43	
10	256QAM	25	0	19.25	19.35	19.44	
10	256QAM	25	12	19.30	19.32	19.36	20.7
10	256QAM	25	25	19.40	19.24	19.25	
10	256QAM	50	0	19.35	19.35	19.38	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.18	24.24	24.16	25.7
5	QPSK	1	12	24.20	24.19	24.08	
5	QPSK	1	24	24.26	24.19	24.07	
5	QPSK	12	0	23.22	23.23	23.20	24.7
5	QPSK	12	7	23.24	23.23	23.16	
5	QPSK	12	13	23.24	23.19	23.14	
5	QPSK	25	0	23.23	23.21	23.12	
5	16QAM	1	0	23.50	23.53	23.53	
5	16QAM	1	12	23.52	23.47	23.45	24.7
5	16QAM	1	24	23.52	23.39	23.36	
5	16QAM	12	0	22.25	22.26	22.24	
5	16QAM	12	7	22.24	22.28	22.22	23.7
5	16QAM	12	13	22.27	22.24	22.17	
5	16QAM	25	0	22.27	22.25	22.18	
5	64QAM	1	0	22.43	22.45	22.50	
5	64QAM	1	12	22.44	22.42	22.38	
5	64QAM	1	24	22.37	22.32	22.33	23.7
5	64QAM	12	0	21.24	21.27	21.23	
5	64QAM	12	7	21.26	21.27	21.20	
5	64QAM	12	13	21.25	21.23	21.15	
5	64QAM	25	0	21.26	21.26	21.16	
5	256QAM	1	0	19.44	19.51	19.72	20.7
5	256QAM	1	12	19.56	19.37	19.48	
5	256QAM	1	24	19.61	19.36	19.38	
5	256QAM	12	0	19.25	19.39	19.50	
5	256QAM	12	7	19.27	19.30	19.32	20.7
5	256QAM	12	13	19.37	19.27	19.21	
5	256QAM	25	0	19.36	19.40	19.33	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	24.53	24.57	24.48	25.7
3	QPSK	1	8	24.39	24.41	24.27	
3	QPSK	1	14	24.51	24.47	24.30	
3	QPSK	8	0	23.45	23.50	23.41	24.7
3	QPSK	8	4	23.50	23.51	23.42	
3	QPSK	8	7	23.52	23.54	23.43	
3	QPSK	15	0	23.50	23.51	23.45	24.7
3	16QAM	1	0	23.87	23.89	23.81	
3	16QAM	1	8	23.70	23.71	23.61	
3	16QAM	1	14	23.83	23.80	23.71	23.7
3	16QAM	8	0	22.49	22.56	22.45	
3	16QAM	8	4	22.58	22.55	22.43	
3	16QAM	8	7	22.57	22.59	22.48	23.7
3	16QAM	15	0	22.51	22.55	22.44	
3	64QAM	1	0	22.64	22.73	22.59	
3	64QAM	1	8	22.57	22.60	22.51	23.7
3	64QAM	1	14	22.64	22.64	22.53	
3	64QAM	8	0	21.55	21.55	21.50	
3	64QAM	8	4	21.52	21.53	21.48	22.7
3	64QAM	8	7	21.56	21.56	21.50	
3	64QAM	15	0	21.56	21.56	21.54	
3	256QAM	1	0	19.40	19.49	19.74	20.7
3	256QAM	1	8	19.52	19.40	19.55	
3	256QAM	1	14	19.56	19.38	19.38	
3	256QAM	8	0	19.30	19.40	19.45	20.7
3	256QAM	8	4	19.34	19.35	19.35	
3	256QAM	8	7	19.33	19.33	19.29	
3	256QAM	15	0	19.39	19.35	19.36	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.35	24.34	24.18	25.7
1.4	QPSK	1	3	24.26	24.25	24.10	
1.4	QPSK	1	5	24.35	24.34	24.16	
1.4	QPSK	3	0	24.28	24.28	24.12	
1.4	QPSK	3	1	24.36	24.37	24.23	
1.4	QPSK	3	3	24.36	24.33	24.17	24.7
1.4	QPSK	6	0	23.33	23.32	23.15	
1.4	16QAM	1	0	23.65	23.63	23.51	
1.4	16QAM	1	3	23.54	23.51	23.39	24.7
1.4	16QAM	1	5	23.66	23.59	23.44	
1.4	16QAM	3	0	23.48	23.46	23.30	
1.4	16QAM	3	1	23.43	23.40	23.28	
1.4	16QAM	3	3	23.39	23.35	23.19	
1.4	16QAM	6	0	22.35	22.35	22.20	23.7
1.4	64QAM	1	0	22.45	22.53	22.36	23.7
1.4	64QAM	1	3	22.39	22.35	22.27	
1.4	64QAM	1	5	22.46	22.44	22.34	
1.4	64QAM	3	0	22.42	22.41	22.32	
1.4	64QAM	3	1	22.40	22.44	22.24	
1.4	64QAM	3	3	22.37	22.38	22.25	22.7
1.4	64QAM	6	0	21.26	21.27	21.18	
1.4	256QAM	1	0	19.43	19.46	19.72	
1.4	256QAM	1	3	19.53	19.47	19.50	20.7
1.4	256QAM	1	5	19.61	19.34	19.40	
1.4	256QAM	3	0	19.27	19.38	19.45	
1.4	256QAM	3	1	19.33	19.29	19.38	
1.4	256QAM	3	3	19.40	19.31	19.26	
1.4	256QAM	6	0	19.39	19.43	19.36	20.7



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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.41	24.64	24.58	25.5
20	QPSK	1	49	24.36	24.36	24.34	
20	QPSK	1	99	24.40	24.17	24.08	
20	QPSK	50	0	23.46	23.53	23.49	24.7
20	QPSK	50	24	23.45	23.46	23.45	
20	QPSK	50	50	23.45	23.35	23.28	
20	QPSK	100	0	23.44	23.47	23.46	
20	16QAM	1	0	23.60	23.87	23.87	24.7
20	16QAM	1	49	23.62	23.67	23.70	
20	16QAM	1	99	23.65	23.44	23.42	
20	16QAM	50	0	22.39	22.52	22.59	23.7
20	16QAM	50	24	22.40	22.47	22.42	
20	16QAM	50	50	22.43	22.33	22.25	
20	16QAM	100	0	22.41	22.41	22.40	
20	64QAM	1	0	22.47	22.77	22.80	23.7
20	64QAM	1	49	22.53	22.57	22.60	
20	64QAM	1	99	22.59	22.40	22.36	
20	64QAM	50	0	21.45	21.55	21.61	22.7
20	64QAM	50	24	21.48	21.51	21.48	
20	64QAM	50	50	21.49	21.39	21.32	
20	64QAM	100	0	21.44	21.44	21.44	
20	256QAM	1	0	19.58	19.62	19.84	20.7
20	256QAM	1	49	19.68	19.57	19.67	
20	256QAM	1	99	19.72	19.50	19.57	
20	256QAM	50	0	19.40	19.54	19.61	20.7
20	256QAM	50	24	19.45	19.48	19.49	
20	256QAM	50	50	19.53	19.43	19.40	
20	256QAM	100	0	19.51	19.55	19.53	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.42	24.58	24.63	25.5
15	QPSK	1	37	24.45	24.47	24.44	
15	QPSK	1	74	24.54	24.35	24.28	
15	QPSK	36	0	23.54	23.63	23.66	24.7
15	QPSK	36	20	23.56	23.57	23.53	
15	QPSK	36	39	23.60	23.51	23.43	
15	QPSK	75	0	23.57	23.58	23.55	
15	16QAM	1	0	23.72	23.90	24.09	24.7
15	16QAM	1	37	23.74	23.82	23.81	
15	16QAM	1	74	23.75	23.63	23.63	
15	16QAM	36	0	22.55	22.64	22.67	23.7
15	16QAM	36	20	22.56	22.58	22.56	
15	16QAM	36	39	22.57	22.49	22.45	
15	16QAM	75	0	22.55	22.56	22.53	
15	64QAM	1	0	22.66	22.81	23.02	23.7
15	64QAM	1	37	22.67	22.82	22.79	
15	64QAM	1	74	22.64	22.67	22.59	
15	64QAM	36	0	21.53	21.64	21.66	22.7
15	64QAM	36	20	21.59	21.59	21.54	
15	64QAM	36	39	21.60	21.52	21.47	
15	64QAM	75	0	21.57	21.57	21.55	
15	256QAM	1	0	19.42	19.47	19.65	20.7
15	256QAM	1	37	19.49	19.45	19.54	
15	256QAM	1	74	19.54	19.36	19.39	
15	256QAM	36	0	19.27	19.40	19.46	20.7
15	256QAM	36	20	19.27	19.35	19.34	



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15	256QAM	36	39	19.38	19.32	19.26	
15	256QAM	75	0	19.41	19.41	19.41	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.23	24.35	24.35	25.5
10	QPSK	1	25	24.13	24.08	24.06	
10	QPSK	1	49	24.24	24.11	24.00	
10	QPSK	25	0	23.26	23.33	23.31	24.7
10	QPSK	25	12	23.28	23.29	23.23	
10	QPSK	25	25	23.31	23.25	23.18	
10	QPSK	50	0	23.28	23.28	23.25	
10	16QAM	1	0	23.46	23.60	23.64	24.7
10	16QAM	1	25	23.47	23.54	23.52	
10	16QAM	1	49	23.55	23.42	23.37	
10	16QAM	25	0	22.29	22.38	22.35	23.7
10	16QAM	25	12	22.35	22.35	22.27	
10	16QAM	25	25	22.36	22.30	22.25	
10	16QAM	50	0	22.29	22.30	22.30	
10	64QAM	1	0	22.45	22.53	22.59	23.7
10	64QAM	1	25	22.41	22.42	22.43	
10	64QAM	1	49	22.58	22.45	22.45	
10	64QAM	25	0	21.30	21.39	21.36	22.7
10	64QAM	25	12	21.33	21.33	21.29	
10	64QAM	25	25	21.35	21.28	21.25	
10	64QAM	50	0	21.33	21.35	21.33	
10	256QAM	1	0	19.40	19.44	19.71	20.7
10	256QAM	1	25	19.58	19.37	19.56	
10	256QAM	1	49	19.53	19.33	19.43	
10	256QAM	25	0	19.25	19.35	19.44	20.7
10	256QAM	25	12	19.30	19.32	19.36	
10	256QAM	25	25	19.40	19.24	19.25	
10	256QAM	50	0	19.35	19.35	19.38	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.18	24.24	24.16	25.5
5	QPSK	1	12	24.20	24.19	24.08	
5	QPSK	1	24	24.26	24.19	24.07	
5	QPSK	12	0	23.22	23.23	23.20	24.7
5	QPSK	12	7	23.24	23.23	23.16	
5	QPSK	12	13	23.24	23.19	23.14	
5	QPSK	25	0	23.23	23.21	23.12	
5	16QAM	1	0	23.50	23.53	23.53	24.7
5	16QAM	1	12	23.52	23.47	23.45	
5	16QAM	1	24	23.52	23.39	23.36	
5	16QAM	12	0	22.25	22.26	22.24	23.7
5	16QAM	12	7	22.24	22.28	22.22	
5	16QAM	12	13	22.27	22.24	22.17	
5	16QAM	25	0	22.27	22.25	22.18	
5	64QAM	1	0	22.43	22.45	22.50	23.7
5	64QAM	1	12	22.44	22.42	22.38	
5	64QAM	1	24	22.37	22.32	22.33	
5	64QAM	12	0	21.24	21.27	21.23	22.7
5	64QAM	12	7	21.26	21.27	21.20	
5	64QAM	12	13	21.25	21.23	21.15	
5	64QAM	25	0	21.26	21.26	21.16	
5	256QAM	1	0	19.44	19.51	19.72	20.7
5	256QAM	1	12	19.56	19.37	19.48	
5	256QAM	1	24	19.61	19.36	19.38	
5	256QAM	12	0	19.25	19.39	19.50	20.7
5	256QAM	12	7	19.27	19.30	19.32	
5	256QAM	12	13	19.37	19.27	19.21	
5	256QAM	25	0	19.36	19.40	19.33	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)	
3	QPSK	1	0	24.53	24.57	24.48	25.5	
3	QPSK	1	8	24.39	24.41	24.27		
3	QPSK	1	14	24.51	24.47	24.30		
3	QPSK	8	0	23.45	23.50	23.41	24.7	
3	QPSK	8	4	23.50	23.51	23.42		
3	QPSK	8	7	23.52	23.54	23.43		
3	QPSK	15	0	23.50	23.51	23.45	24.7	
3	16QAM	1	0	23.87	23.89	23.81		
3	16QAM	1	8	23.70	23.71	23.61		
3	16QAM	1	14	23.83	23.80	23.71	23.7	
3	16QAM	8	0	22.49	22.56	22.45		
3	16QAM	8	4	22.58	22.55	22.43		
3	16QAM	8	7	22.57	22.59	22.48	23.7	
3	16QAM	15	0	22.51	22.55	22.44		
3	64QAM	1	0	22.64	22.73	22.59		
3	64QAM	1	8	22.57	22.60	22.51	23.7	
3	64QAM	1	14	22.64	22.64	22.53		
3	64QAM	8	0	21.55	21.55	21.50		
3	64QAM	8	4	21.52	21.53	21.48	22.7	
3	64QAM	8	7	21.56	21.56	21.50		
3	64QAM	15	0	21.56	21.56	21.54		
3	256QAM	1	0	19.40	19.49	19.74	20.7	
3	256QAM	1	8	19.52	19.40	19.55		
3	256QAM	1	14	19.56	19.38	19.38		
3	256QAM	8	0	19.30	19.40	19.45	20.7	
3	256QAM	8	4	19.34	19.35	19.35		
3	256QAM	8	7	19.33	19.33	19.29		
3	256QAM	15	0	19.39	19.35	19.36	20.7	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	24.35	24.34	24.18	25.5	
1.4	QPSK	1	3	24.26	24.25	24.10		
1.4	QPSK	1	5	24.35	24.34	24.16		
1.4	QPSK	3	0	24.28	24.28	24.12	24.7	
1.4	QPSK	3	1	24.36	24.37	24.23		
1.4	QPSK	3	3	24.36	24.33	24.17		
1.4	QPSK	6	0	23.33	23.32	23.15	24.7	
1.4	16QAM	1	0	23.65	23.63	23.51		
1.4	16QAM	1	3	23.54	23.51	23.39		
1.4	16QAM	1	5	23.66	23.59	23.44	24.7	
1.4	16QAM	3	0	23.48	23.46	23.30		
1.4	16QAM	3	1	23.43	23.40	23.28		
1.4	16QAM	3	3	23.39	23.35	23.19	23.7	
1.4	16QAM	6	0	22.35	22.35	22.20		
1.4	64QAM	1	0	22.45	22.53	22.36		
1.4	64QAM	1	3	22.39	22.35	22.27	23.7	
1.4	64QAM	1	5	22.46	22.44	22.34		
1.4	64QAM	3	0	22.42	22.41	22.32		
1.4	64QAM	3	1	22.40	22.44	22.24	22.7	
1.4	64QAM	3	3	22.37	22.38	22.25		
1.4	64QAM	6	0	21.26	21.27	21.18		
1.4	256QAM	1	0	19.43	19.46	19.72	20.7	
1.4	256QAM	1	3	19.53	19.47	19.50		
1.4	256QAM	1	5	19.61	19.34	19.40		
1.4	256QAM	3	0	19.27	19.38	19.45	20.7	
1.4	256QAM	3	1	19.33	19.29	19.38		
1.4	256QAM	3	3	19.40	19.31	19.26		
1.4	256QAM	6	0	19.39	19.43	19.36	20.7	



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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.32	23.36	23.37	23.4
20	QPSK	1	49	23.31	23.31	23.32	
20	QPSK	1	99	23.30	23.32	23.34	
20	QPSK	50	0	23.34	23.33	23.35	23.4
20	QPSK	50	24	23.32	23.32	23.33	
20	QPSK	50	50	23.33	23.25	23.30	
20	QPSK	100	0	23.33	23.32	23.34	
20	16QAM	1	0	23.35	23.35	23.40	23.4
20	16QAM	1	49	23.28	23.23	23.23	
20	16QAM	1	99	23.38	23.32	23.29	
20	16QAM	50	0	22.53	22.62	22.67	23.4
20	16QAM	50	24	22.56	22.57	22.53	
20	16QAM	50	50	22.58	22.48	22.38	
20	16QAM	100	0	22.49	22.54	22.49	
20	64QAM	1	0	22.64	22.83	23.03	23.4
20	64QAM	1	49	22.76	22.70	22.66	
20	64QAM	1	99	22.72	22.50	22.44	
20	64QAM	50	0	21.56	21.67	21.71	22.7
20	64QAM	50	24	21.61	21.62	21.59	
20	64QAM	50	50	21.61	21.50	21.39	
20	64QAM	100	0	21.57	21.59	21.56	
20	256QAM	1	0	19.56	19.54	19.84	20.7
20	256QAM	1	49	19.67	19.48	19.67	
20	256QAM	1	99	19.68	19.46	19.57	
20	256QAM	50	0	19.30	19.54	19.54	20.7
20	256QAM	50	24	19.35	19.39	19.41	
20	256QAM	50	50	19.52	19.35	19.39	
20	256QAM	100	0	19.44	19.53	19.45	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.37	23.37	23.39	23.4
15	QPSK	1	37	23.32	23.31	23.32	
15	QPSK	1	74	23.39	23.31	23.39	
15	QPSK	36	0	23.31	23.35	23.32	23.4
15	QPSK	36	20	23.35	23.34	23.23	
15	QPSK	36	39	23.28	23.17	23.27	
15	QPSK	75	0	23.25	23.34	23.22	
15	16QAM	1	0	23.38	23.31	23.30	23.4
15	16QAM	1	37	23.25	23.38	23.38	
15	16QAM	1	74	23.30	23.32	23.26	
15	16QAM	36	0	22.48	22.61	22.62	23.4
15	16QAM	36	20	22.56	22.47	22.47	
15	16QAM	36	39	22.52	22.40	22.33	
15	16QAM	75	0	22.46	22.48	22.49	
15	64QAM	1	0	22.63	22.80	22.95	23.4
15	64QAM	1	37	22.72	22.68	22.59	
15	64QAM	1	74	22.65	22.48	22.40	
15	64QAM	36	0	21.50	21.67	21.65	22.7
15	64QAM	36	20	21.61	21.60	21.56	
15	64QAM	36	39	21.53	21.42	21.29	
15	64QAM	75	0	21.56	21.55	21.52	
15	256QAM	1	0	19.48	19.50	19.79	20.7
15	256QAM	1	37	19.66	19.45	19.59	
15	256QAM	1	74	19.67	19.46	19.55	
15	256QAM	36	0	19.27	19.44	19.47	20.7
15	256QAM	36	20	19.25	19.34	19.37	



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15	256QAM	36	39	19.48	19.26	19.38	
15	256QAM	75	0	19.42	19.52	19.43	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.32	23.37	23.35	23.4
10	QPSK	1	25	23.35	23.36	23.38	
10	QPSK	1	49	23.32	23.38	23.39	
10	QPSK	25	0	23.37	23.32	23.32	23.4
10	QPSK	25	12	23.28	23.26	23.26	
10	QPSK	25	25	23.30	23.20	23.21	
10	QPSK	50	0	23.26	23.28	23.29	
10	16QAM	1	0	23.33	23.39	23.30	23.4
10	16QAM	1	25	23.27	23.36	23.35	
10	16QAM	1	49	23.30	23.29	23.23	23.4
10	16QAM	25	0	22.46	22.56	22.64	
10	16QAM	25	12	22.48	22.55	22.49	
10	16QAM	25	25	22.49	22.46	22.36	
10	16QAM	50	0	22.47	22.50	22.42	
10	64QAM	1	0	22.54	22.78	23.00	23.4
10	64QAM	1	25	22.72	22.65	22.60	
10	64QAM	1	49	22.67	22.41	22.37	
10	64QAM	25	0	21.49	21.60	21.69	22.7
10	64QAM	25	12	21.52	21.58	21.55	
10	64QAM	25	25	21.55	21.42	21.38	
10	64QAM	50	0	21.47	21.57	21.56	
10	256QAM	1	0	19.46	19.51	19.78	20.7
10	256QAM	1	25	19.63	19.46	19.66	
10	256QAM	1	49	19.58	19.37	19.51	
10	256QAM	25	0	19.21	19.45	19.47	20.7
10	256QAM	25	12	19.34	19.33	19.33	
10	256QAM	25	25	19.52	19.30	19.33	
10	256QAM	50	0	19.38	19.49	19.44	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.34	23.37	23.36	23.4
5	QPSK	1	12	23.38	23.35	23.39	
5	QPSK	1	24	23.33	23.37	23.33	
5	QPSK	12	0	23.35	23.35	23.32	23.4
5	QPSK	12	7	23.36	23.32	23.31	
5	QPSK	12	13	23.27	23.25	23.20	
5	QPSK	25	0	23.28	23.34	23.23	
5	16QAM	1	0	23.31	23.31	23.30	23.4
5	16QAM	1	12	23.28	23.39	23.37	
5	16QAM	1	24	23.31	23.24	23.22	
5	16QAM	12	0	22.46	22.52	22.57	23.4
5	16QAM	12	7	22.51	22.57	22.51	
5	16QAM	12	13	22.58	22.40	22.30	
5	16QAM	25	0	22.45	22.47	22.41	
5	64QAM	1	0	22.60	22.78	22.93	23.4
5	64QAM	1	12	22.75	22.69	22.63	
5	64QAM	1	24	22.69	22.47	22.43	
5	64QAM	12	0	21.50	21.61	21.66	22.7
5	64QAM	12	7	21.54	21.54	21.51	
5	64QAM	12	13	21.58	21.40	21.31	
5	64QAM	25	0	21.50	21.51	21.51	
5	256QAM	1	0	19.48	19.50	19.75	20.7
5	256QAM	1	12	19.64	19.38	19.60	
5	256QAM	1	24	19.67	19.41	19.47	
5	256QAM	12	0	19.23	19.51	19.49	20.7
5	256QAM	12	7	19.30	19.38	19.38	
5	256QAM	12	13	19.43	19.30	19.39	
5	256QAM	25	0	19.37	19.43	19.36	





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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.39	23.37	23.39	23.4
3	QPSK	1	8	23.37	23.38	23.35	
3	QPSK	1	14	23.33	23.32	23.33	
3	QPSK	8	0	23.27	23.36	23.37	23.4
3	QPSK	8	4	23.27	23.35	23.23	
3	QPSK	8	7	23.27	23.18	23.21	
3	QPSK	15	0	23.33	23.35	23.28	
3	16QAM	1	0	23.31	23.36	23.30	23.4
3	16QAM	1	8	23.22	23.22	23.35	
3	16QAM	1	14	23.30	23.25	23.26	
3	16QAM	8	0	22.44	22.59	22.60	23.4
3	16QAM	8	4	22.56	22.54	22.53	
3	16QAM	8	7	22.50	22.38	22.31	
3	16QAM	15	0	22.49	22.49	22.48	
3	64QAM	1	0	22.62	22.78	22.95	23.4
3	64QAM	1	8	22.74	22.70	22.65	
3	64QAM	1	14	22.72	22.42	22.42	
3	64QAM	8	0	21.55	21.64	21.66	22.7
3	64QAM	8	4	21.60	21.57	21.58	
3	64QAM	8	7	21.55	21.48	21.30	
3	64QAM	15	0	21.52	21.53	21.49	
3	256QAM	1	0	19.52	19.54	19.81	20.7
3	256QAM	1	8	19.67	19.44	19.67	
3	256QAM	1	14	19.67	19.45	19.52	
3	256QAM	8	0	19.23	19.48	19.46	20.7
3	256QAM	8	4	19.29	19.34	19.38	
3	256QAM	8	7	19.43	19.35	19.35	
3	256QAM	15	0	19.42	19.50	19.40	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.39	23.39	23.39	23.4
1.4	QPSK	1	3	23.39	23.39	23.32	
1.4	QPSK	1	5	23.37	23.37	23.37	
1.4	QPSK	3	0	23.32	23.33	23.33	
1.4	QPSK	3	1	23.33	23.34	23.38	
1.4	QPSK	3	3	23.33	23.30	23.36	
1.4	QPSK	6	0	23.30	23.26	23.23	23.4
1.4	16QAM	1	0	23.39	23.30	23.30	23.4
1.4	16QAM	1	3	23.23	23.36	23.33	
1.4	16QAM	1	5	23.38	23.22	23.24	
1.4	16QAM	3	0	22.98	23.07	23.08	
1.4	16QAM	3	1	23.05	23.01	22.93	
1.4	16QAM	3	3	23.08	22.98	22.88	
1.4	16QAM	6	0	22.45	22.45	22.48	23.4
1.4	64QAM	1	0	22.55	22.77	22.93	23.4
1.4	64QAM	1	3	22.74	22.65	22.56	
1.4	64QAM	1	5	22.65	22.47	22.41	
1.4	64QAM	3	0	22.52	22.61	22.66	
1.4	64QAM	3	1	22.59	22.60	22.59	
1.4	64QAM	3	3	22.55	22.45	22.34	
1.4	64QAM	6	0	21.50	21.49	21.54	22.7
1.4	256QAM	1	0	19.55	19.52	19.84	20.7
1.4	256QAM	1	3	19.63	19.47	19.61	
1.4	256QAM	1	5	19.65	19.36	19.52	
1.4	256QAM	3	0	19.24	19.54	19.49	
1.4	256QAM	3	1	19.31	19.31	19.32	
1.4	256QAM	3	3	19.49	19.31	19.29	
1.4	256QAM	6	0	19.41	19.50	19.44	20.7



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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.32	23.36	23.37	24.2
20	QPSK	1	49	23.31	23.31	23.32	
20	QPSK	1	99	23.30	23.32	23.34	
20	QPSK	50	0	23.34	23.33	23.35	24.2
20	QPSK	50	24	23.32	23.32	23.33	
20	QPSK	50	50	23.33	23.25	23.30	
20	QPSK	100	0	23.33	23.32	23.34	24.2
20	16QAM	1	0	23.35	23.35	23.40	
20	16QAM	1	49	23.28	23.23	23.23	
20	16QAM	1	99	23.38	23.32	23.29	23.7
20	16QAM	50	0	22.53	22.62	22.67	
20	16QAM	50	24	22.56	22.57	22.53	
20	16QAM	50	50	22.58	22.48	22.38	23.7
20	16QAM	100	0	22.49	22.54	22.49	
20	64QAM	1	0	22.64	22.83	23.03	
20	64QAM	1	49	22.76	22.70	22.66	22.7
20	64QAM	1	99	22.72	22.50	22.44	
20	64QAM	50	0	21.56	21.67	21.71	
20	64QAM	50	24	21.61	21.62	21.59	20.7
20	64QAM	50	50	21.61	21.50	21.39	
20	64QAM	100	0	21.57	21.59	21.56	
20	256QAM	1	0	19.56	19.54	19.84	20.7
20	256QAM	1	49	19.67	19.48	19.67	
20	256QAM	1	99	19.68	19.46	19.57	
20	256QAM	50	0	19.30	19.54	19.54	20.7
20	256QAM	50	24	19.35	19.39	19.41	
20	256QAM	50	50	19.52	19.35	19.39	
20	256QAM	100	0	19.44	19.53	19.45	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.37	23.37	23.39	24.2
15	QPSK	1	37	23.32	23.31	23.32	
15	QPSK	1	74	23.39	23.31	23.39	
15	QPSK	36	0	23.31	23.35	23.32	24.2
15	QPSK	36	20	23.35	23.34	23.23	
15	QPSK	36	39	23.28	23.17	23.27	
15	QPSK	75	0	23.25	23.34	23.22	24.2
15	16QAM	1	0	23.38	23.31	23.30	
15	16QAM	1	37	23.25	23.38	23.38	
15	16QAM	1	74	23.30	23.32	23.26	23.7
15	16QAM	36	0	22.48	22.61	22.62	
15	16QAM	36	20	22.56	22.47	22.47	
15	16QAM	36	39	22.52	22.40	22.33	23.7
15	16QAM	75	0	22.46	22.48	22.49	
15	64QAM	1	0	22.63	22.80	22.95	
15	64QAM	1	37	22.72	22.68	22.59	22.7
15	64QAM	1	74	22.65	22.48	22.40	
15	64QAM	36	0	21.50	21.67	21.65	
15	64QAM	36	20	21.61	21.60	21.56	20.7
15	64QAM	36	39	21.53	21.42	21.29	
15	64QAM	75	0	21.56	21.55	21.52	
15	256QAM	1	0	19.48	19.50	19.79	20.7
15	256QAM	1	37	19.66	19.45	19.59	
15	256QAM	1	74	19.67	19.46	19.55	
15	256QAM	36	0	19.27	19.44	19.47	20.7
15	256QAM	36	20	19.25	19.34	19.37	



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15	256QAM	36	39	19.48	19.26	19.38	
15	256QAM	75	0	19.42	19.52	19.43	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.32	23.37	23.35	24.2
10	QPSK	1	25	23.35	23.36	23.38	
10	QPSK	1	49	23.32	23.38	23.39	
10	QPSK	25	0	23.37	23.32	23.32	24.2
10	QPSK	25	12	23.28	23.26	23.26	
10	QPSK	25	25	23.30	23.20	23.21	
10	QPSK	50	0	23.26	23.28	23.29	
10	16QAM	1	0	23.33	23.39	23.30	
10	16QAM	1	25	23.27	23.36	23.35	24.2
10	16QAM	1	49	23.30	23.29	23.23	
10	16QAM	25	0	22.46	22.56	22.64	23.7
10	16QAM	25	12	22.48	22.55	22.49	
10	16QAM	25	25	22.49	22.46	22.36	
10	16QAM	50	0	22.47	22.50	22.42	
10	64QAM	1	0	22.54	22.78	23.00	
10	64QAM	1	25	22.72	22.65	22.60	23.7
10	64QAM	1	49	22.67	22.41	22.37	
10	64QAM	25	0	21.49	21.60	21.69	
10	64QAM	25	12	21.52	21.58	21.55	22.7
10	64QAM	25	25	21.55	21.42	21.38	
10	64QAM	50	0	21.47	21.57	21.56	
10	256QAM	1	0	19.46	19.51	19.78	20.7
10	256QAM	1	25	19.63	19.46	19.66	
10	256QAM	1	49	19.58	19.37	19.51	
10	256QAM	25	0	19.21	19.45	19.47	
10	256QAM	25	12	19.34	19.33	19.33	20.7
10	256QAM	25	25	19.52	19.30	19.33	
10	256QAM	50	0	19.38	19.49	19.44	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.34	23.37	23.36	24.2
5	QPSK	1	12	23.38	23.35	23.39	
5	QPSK	1	24	23.33	23.37	23.33	
5	QPSK	12	0	23.35	23.35	23.32	24.2
5	QPSK	12	7	23.36	23.32	23.31	
5	QPSK	12	13	23.27	23.25	23.20	
5	QPSK	25	0	23.28	23.34	23.23	
5	16QAM	1	0	23.31	23.31	23.30	
5	16QAM	1	12	23.28	23.39	23.37	24.2
5	16QAM	1	24	23.31	23.24	23.22	
5	16QAM	12	0	22.46	22.52	22.57	
5	16QAM	12	7	22.51	22.57	22.51	23.7
5	16QAM	12	13	22.58	22.40	22.30	
5	16QAM	25	0	22.45	22.47	22.41	
5	64QAM	1	0	22.60	22.78	22.93	
5	64QAM	1	12	22.75	22.69	22.63	23.7
5	64QAM	1	24	22.69	22.47	22.43	
5	64QAM	12	0	21.50	21.61	21.66	
5	64QAM	12	7	21.54	21.54	21.51	22.7
5	64QAM	12	13	21.58	21.40	21.31	
5	64QAM	25	0	21.50	21.51	21.51	
5	256QAM	1	0	19.48	19.50	19.75	20.7
5	256QAM	1	12	19.64	19.38	19.60	
5	256QAM	1	24	19.67	19.41	19.47	
5	256QAM	12	0	19.23	19.51	19.49	
5	256QAM	12	7	19.30	19.38	19.38	20.7
5	256QAM	12	13	19.43	19.30	19.39	
5	256QAM	25	0	19.37	19.43	19.36	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.39	23.37	23.39	24.2
3	QPSK	1	8	23.37	23.38	23.35	
3	QPSK	1	14	23.33	23.32	23.33	
3	QPSK	8	0	23.27	23.36	23.37	24.2
3	QPSK	8	4	23.27	23.35	23.23	
3	QPSK	8	7	23.27	23.18	23.21	
3	QPSK	15	0	23.33	23.35	23.28	
3	16QAM	1	0	23.31	23.36	23.30	24.2
3	16QAM	1	8	23.22	23.22	23.35	
3	16QAM	1	14	23.30	23.25	23.26	
3	16QAM	8	0	22.44	22.59	22.60	23.7
3	16QAM	8	4	22.56	22.54	22.53	
3	16QAM	8	7	22.50	22.38	22.31	
3	16QAM	15	0	22.49	22.49	22.48	
3	64QAM	1	0	22.62	22.78	22.95	23.7
3	64QAM	1	8	22.74	22.70	22.65	
3	64QAM	1	14	22.72	22.42	22.42	
3	64QAM	8	0	21.55	21.64	21.66	22.7
3	64QAM	8	4	21.60	21.57	21.58	
3	64QAM	8	7	21.55	21.48	21.30	
3	64QAM	15	0	21.52	21.53	21.49	
3	256QAM	1	0	19.52	19.54	19.81	20.7
3	256QAM	1	8	19.67	19.44	19.67	
3	256QAM	1	14	19.67	19.45	19.52	
3	256QAM	8	0	19.23	19.48	19.46	20.7
3	256QAM	8	4	19.29	19.34	19.38	
3	256QAM	8	7	19.43	19.35	19.35	
3	256QAM	15	0	19.42	19.50	19.40	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.39	23.39	23.39	24.2
1.4	QPSK	1	3	23.39	23.39	23.32	
1.4	QPSK	1	5	23.37	23.37	23.37	
1.4	QPSK	3	0	23.32	23.33	23.33	
1.4	QPSK	3	1	23.33	23.34	23.38	
1.4	QPSK	3	3	23.33	23.30	23.36	
1.4	QPSK	6	0	23.30	23.26	23.23	24.2
1.4	16QAM	1	0	23.39	23.30	23.30	24.2
1.4	16QAM	1	3	23.23	23.36	23.33	
1.4	16QAM	1	5	23.38	23.22	23.24	
1.4	16QAM	3	0	22.98	23.07	23.08	
1.4	16QAM	3	1	23.05	23.01	22.93	
1.4	16QAM	3	3	23.08	22.98	22.88	
1.4	16QAM	6	0	22.45	22.45	22.48	23.7
1.4	64QAM	1	0	22.55	22.77	22.93	23.7
1.4	64QAM	1	3	22.74	22.65	22.56	
1.4	64QAM	1	5	22.65	22.47	22.41	
1.4	64QAM	3	0	22.52	22.61	22.66	
1.4	64QAM	3	1	22.59	22.60	22.59	
1.4	64QAM	3	3	22.55	22.45	22.34	
1.4	64QAM	6	0	21.50	21.49	21.54	22.7
1.4	256QAM	1	0	19.55	19.52	19.84	20.7
1.4	256QAM	1	3	19.63	19.47	19.61	
1.4	256QAM	1	5	19.65	19.36	19.52	
1.4	256QAM	3	0	19.24	19.54	19.49	
1.4	256QAM	3	1	19.31	19.31	19.32	
1.4	256QAM	3	3	19.49	19.31	19.29	
1.4	256QAM	6	0	19.41	19.50	19.44	20.7



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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.82	22.81	22.85	23.4
20	QPSK	1	49	22.77	22.73	22.78	
20	QPSK	1	99	22.78	22.78	22.78	
20	QPSK	50	0	22.77	22.75	22.78	23.4
20	QPSK	50	24	22.76	22.74	22.78	
20	QPSK	50	50	22.74	22.73	22.75	
20	QPSK	100	0	22.73	22.77	22.74	
20	16QAM	1	0	22.79	22.84	22.90	23.4
20	16QAM	1	49	22.70	22.65	22.67	
20	16QAM	1	99	22.79	22.79	22.73	
20	16QAM	50	0	22.43	22.55	22.67	23.4
20	16QAM	50	24	22.51	22.57	22.45	
20	16QAM	50	50	22.53	22.42	22.35	
20	16QAM	100	0	22.43	22.45	22.39	
20	64QAM	1	0	22.56	22.75	23.02	23.4
20	64QAM	1	49	22.72	22.62	22.62	
20	64QAM	1	99	22.69	22.40	22.37	
20	64QAM	50	0	21.51	21.58	21.67	22.7
20	64QAM	50	24	21.55	21.61	21.50	
20	64QAM	50	50	21.51	21.47	21.29	
20	64QAM	100	0	21.56	21.56	21.55	
20	256QAM	1	0	19.46	19.50	19.77	20.7
20	256QAM	1	49	19.64	19.41	19.63	
20	256QAM	1	99	19.58	19.40	19.53	
20	256QAM	50	0	19.22	19.48	19.48	20.7
20	256QAM	50	24	19.25	19.31	19.38	
20	256QAM	50	50	19.51	19.30	19.34	
20	256QAM	100	0	19.37	19.44	19.36	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.77	22.80	22.83	23.4
15	QPSK	1	37	22.74	22.81	22.76	
15	QPSK	1	74	22.84	22.80	22.87	
15	QPSK	36	0	22.80	22.82	22.78	23.4
15	QPSK	36	20	22.76	22.76	22.67	
15	QPSK	36	39	22.72	22.64	22.74	
15	QPSK	75	0	22.72	22.84	22.67	
15	16QAM	1	0	22.86	22.81	22.77	23.4
15	16QAM	1	37	22.73	22.88	22.78	
15	16QAM	1	74	22.73	22.76	22.70	
15	16QAM	36	0	22.43	22.53	22.62	23.4
15	16QAM	36	20	22.53	22.41	22.42	
15	16QAM	36	39	22.44	22.36	22.25	
15	16QAM	75	0	22.37	22.45	22.40	
15	64QAM	1	0	22.56	22.70	22.91	23.4
15	64QAM	1	37	22.68	22.59	22.58	
15	64QAM	1	74	22.55	22.48	22.34	
15	64QAM	36	0	21.50	21.66	21.61	22.7
15	64QAM	36	20	21.54	21.50	21.56	
15	64QAM	36	39	21.53	21.42	21.27	
15	64QAM	75	0	21.54	21.45	21.51	
15	256QAM	1	0	19.38	19.47	19.74	20.7
15	256QAM	1	37	19.57	19.44	19.53	
15	256QAM	1	74	19.58	19.42	19.54	
15	256QAM	36	0	19.26	19.39	19.43	20.7
15	256QAM	36	20	19.15	19.27	19.37	



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15	256QAM	36	39	19.38	19.20	19.32	
15	256QAM	75	0	19.34	19.49	19.38	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.80	22.80	22.78	23.4
10	QPSK	1	25	22.77	22.83	22.88	
10	QPSK	1	49	22.77	22.82	22.79	
10	QPSK	25	0	22.80	22.80	22.75	23.4
10	QPSK	25	12	22.76	22.69	22.69	
10	QPSK	25	25	22.78	22.60	22.70	
10	QPSK	50	0	22.73	22.70	22.75	
10	16QAM	1	0	22.83	22.81	22.76	23.4
10	16QAM	1	25	22.67	22.81	22.78	
10	16QAM	1	49	22.72	22.75	22.73	
10	16QAM	25	0	22.38	22.46	22.59	23.4
10	16QAM	25	12	22.46	22.49	22.42	
10	16QAM	25	25	22.46	22.41	22.35	
10	16QAM	50	0	22.46	22.40	22.37	
10	64QAM	1	0	22.44	22.68	22.94	23.4
10	64QAM	1	25	22.72	22.58	22.53	
10	64QAM	1	49	22.61	22.36	22.28	
10	64QAM	25	0	21.48	21.52	21.61	22.7
10	64QAM	25	12	21.44	21.49	21.50	
10	64QAM	25	25	21.51	21.36	21.33	
10	64QAM	50	0	21.44	21.53	21.54	
10	256QAM	1	0	19.46	19.46	19.74	20.7
10	256QAM	1	25	19.63	19.36	19.59	
10	256QAM	1	49	19.49	19.31	19.44	
10	256QAM	25	0	19.21	19.40	19.42	20.7
10	256QAM	25	12	19.34	19.33	19.30	
10	256QAM	25	25	19.43	19.23	19.27	
10	256QAM	50	0	19.38	19.44	19.43	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.84	22.87	22.86	23.4
5	QPSK	1	12	22.88	22.85	22.89	
5	QPSK	1	24	22.83	22.87	22.83	
5	QPSK	12	0	22.85	22.85	22.82	23.4
5	QPSK	12	7	22.86	22.82	22.81	
5	QPSK	12	13	22.77	22.75	22.70	
5	QPSK	25	0	22.78	22.84	22.73	
5	16QAM	1	0	22.81	22.81	22.80	23.4
5	16QAM	1	12	22.78	22.89	22.87	
5	16QAM	1	24	22.81	22.74	22.72	
5	16QAM	12	0	22.46	22.52	22.57	23.4
5	16QAM	12	7	22.51	22.57	22.51	
5	16QAM	12	13	22.58	22.40	22.30	
5	16QAM	25	0	22.45	22.47	22.41	
5	64QAM	1	0	22.60	22.78	22.93	23.4
5	64QAM	1	12	22.75	22.69	22.63	
5	64QAM	1	24	22.69	22.47	22.43	
5	64QAM	12	0	21.50	21.61	21.66	22.7
5	64QAM	12	7	21.54	21.54	21.51	
5	64QAM	12	13	21.58	21.40	21.31	
5	64QAM	25	0	21.50	21.51	21.51	
5	256QAM	1	0	19.48	19.50	19.75	20.7
5	256QAM	1	12	19.64	19.38	19.60	
5	256QAM	1	24	19.67	19.41	19.47	
5	256QAM	12	0	19.23	19.51	19.49	20.7
5	256QAM	12	7	19.30	19.38	19.38	
5	256QAM	12	13	19.43	19.30	19.39	
5	256QAM	25	0	19.37	19.43	19.36	



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**Report No. : FA380306C**

Channel				131987	132322	132657	Tune-up limit (dBm)	
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.89	22.87	22.89	23.4	
3	QPSK	1	8	22.87	22.88	22.85		
3	QPSK	1	14	22.83	22.82	22.83		
3	QPSK	8	0	22.77	22.86	22.87	23.4	
3	QPSK	8	4	22.77	22.85	22.73		
3	QPSK	8	7	22.77	22.68	22.71		
3	QPSK	15	0	22.83	22.85	22.78	23.4	
3	16QAM	1	0	22.81	22.86	22.80		
3	16QAM	1	8	22.72	22.72	22.85		
3	16QAM	1	14	22.80	22.75	22.76	23.4	
3	16QAM	8	0	22.44	22.59	22.60		
3	16QAM	8	4	22.56	22.54	22.53		
3	16QAM	8	7	22.50	22.38	22.31	23.4	
3	16QAM	15	0	22.49	22.49	22.48		
3	64QAM	1	0	22.62	22.78	22.95		
3	64QAM	1	8	22.74	22.70	22.65	23.4	
3	64QAM	1	14	22.72	22.42	22.42		
3	64QAM	8	0	21.55	21.64	21.66		
3	64QAM	8	4	21.60	21.57	21.58	22.7	
3	64QAM	8	7	21.55	21.48	21.30		
3	64QAM	15	0	21.52	21.53	21.49		
3	256QAM	1	0	19.52	19.54	19.81	20.7	
3	256QAM	1	8	19.67	19.44	19.67		
3	256QAM	1	14	19.67	19.45	19.52		
3	256QAM	8	0	19.23	19.48	19.46	20.7	
3	256QAM	8	4	19.29	19.34	19.38		
3	256QAM	8	7	19.43	19.35	19.35		
3	256QAM	15	0	19.42	19.50	19.40	20.7	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.89	22.89	22.89	23.4	
1.4	QPSK	1	3	22.89	22.89	22.82		
1.4	QPSK	1	5	22.87	22.87	22.87		
1.4	QPSK	3	0	22.82	22.83	22.83	23.4	
1.4	QPSK	3	1	22.83	22.84	22.88		
1.4	QPSK	3	3	22.83	22.80	22.86		
1.4	QPSK	6	0	22.80	22.76	22.73	23.4	
1.4	16QAM	1	0	22.89	22.80	22.80		
1.4	16QAM	1	3	22.73	22.86	22.83		
1.4	16QAM	1	5	22.88	22.72	22.74	23.4	
1.4	16QAM	3	0	22.48	22.57	22.58		
1.4	16QAM	3	1	22.55	22.51	22.43		
1.4	16QAM	3	3	22.58	22.48	22.38	23.4	
1.4	16QAM	6	0	22.45	22.45	22.48		
1.4	64QAM	1	0	22.55	22.77	22.93		
1.4	64QAM	1	3	22.74	22.65	22.56	23.4	
1.4	64QAM	1	5	22.65	22.47	22.41		
1.4	64QAM	3	0	22.52	22.61	22.66		
1.4	64QAM	3	1	22.59	22.60	22.59	23.4	
1.4	64QAM	3	3	22.55	22.45	22.34		
1.4	64QAM	6	0	21.50	21.49	21.54		
1.4	256QAM	1	0	19.55	19.52	19.84	22.7	
1.4	256QAM	1	3	19.63	19.47	19.61		
1.4	256QAM	1	5	19.65	19.36	19.52		
1.4	256QAM	3	0	19.24	19.54	19.49	20.7	
1.4	256QAM	3	1	19.31	19.31	19.32		
1.4	256QAM	3	3	19.49	19.31	19.29		
1.4	256QAM	6	0	19.41	19.50	19.44	20.7	



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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				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.69	22.91	22.80	24.4
20	QPSK	1	49	22.66	22.78	22.70	
20	QPSK	1	99	22.60	22.62	22.60	
20	QPSK	50	0	22.77	22.81	22.78	24.2
20	QPSK	50	24	22.65	22.75	22.75	
20	QPSK	50	50	22.61	22.69	22.67	
20	QPSK	100	0	22.71	22.72	22.71	
20	16QAM	1	0	22.86	22.94	22.85	24.2
20	16QAM	1	49	22.78	22.81	22.78	
20	16QAM	1	99	22.49	22.57	22.53	
20	16QAM	50	0	22.18	22.27	22.22	23.2
20	16QAM	50	24	22.27	22.27	22.17	
20	16QAM	50	50	22.31	22.32	22.29	
20	16QAM	100	0	22.24	22.30	22.24	
20	64QAM	1	0	22.19	22.24	22.19	23.2
20	64QAM	1	49	22.19	22.24	22.19	
20	64QAM	1	99	22.29	22.30	22.28	
20	64QAM	50	0	21.24	21.24	21.18	22.2
20	64QAM	50	24	21.15	21.17	21.15	
20	64QAM	50	50	21.14	21.15	21.14	
20	64QAM	100	0	21.12	21.18	21.12	
20	256QAM	1	0	19.40	19.47	19.41	20.2
20	256QAM	1	49	19.16	19.26	19.20	
20	256QAM	1	99	19.02	19.06	19.06	
20	256QAM	50	0	19.08	19.18	19.14	20.2
20	256QAM	50	24	19.08	19.15	19.15	
20	256QAM	50	50	18.98	19.01	19.01	
20	256QAM	100	0	19.09	19.09	19.07	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.66	22.91	22.62	24.4
15	QPSK	1	37	22.61	22.68	22.62	
15	QPSK	1	74	22.50	22.58	22.57	
15	QPSK	36	0	22.76	22.80	22.76	24.2
15	QPSK	36	20	22.58	22.67	22.72	
15	QPSK	36	39	22.61	22.69	22.66	
15	QPSK	75	0	22.65	22.65	22.62	
15	16QAM	1	0	22.83	22.90	22.79	24.2
15	16QAM	1	37	22.69	22.71	22.72	
15	16QAM	1	74	22.47	22.55	22.49	
15	16QAM	36	0	22.14	22.19	22.16	23.2
15	16QAM	36	20	22.23	22.27	22.15	
15	16QAM	36	39	22.28	22.22	22.20	
15	16QAM	75	0	22.14	22.26	22.17	
15	64QAM	1	0	22.09	22.23	22.15	23.2
15	64QAM	1	37	22.09	22.19	22.13	
15	64QAM	1	74	22.29	22.23	22.21	
15	64QAM	36	0	21.23	21.16	21.09	22.2
15	64QAM	36	20	21.14	21.16	21.14	
15	64QAM	36	39	21.12	21.06	21.04	
15	64QAM	75	0	21.10	21.09	21.06	
15	256QAM	1	0	19.32	19.42	19.33	20.2
15	256QAM	1	37	19.06	19.22	19.13	
15	256QAM	1	74	18.96	18.98	19.06	
15	256QAM	36	0	18.99	19.11	19.13	20.2
15	256QAM	36	20	19.01	19.05	19.15	





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15	256QAM	36	39	18.91	18.98	19.01	
15	256QAM	75	0	19.05	19.01	19.01	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.61	22.81	22.71	24.4
10	QPSK	1	25	22.63	22.75	22.70	
10	QPSK	1	49	22.54	22.56	22.59	
10	QPSK	25	0	22.68	22.76	22.71	24.2
10	QPSK	25	12	22.64	22.71	22.68	
10	QPSK	25	25	22.52	22.67	22.65	
10	QPSK	50	0	22.70	22.71	22.70	
10	16QAM	1	0	22.81	22.85	22.77	24.2
10	16QAM	1	25	22.74	22.75	22.70	
10	16QAM	1	49	22.46	22.56	22.53	
10	16QAM	25	0	22.14	22.23	22.14	23.2
10	16QAM	25	12	22.24	22.17	22.13	
10	16QAM	25	25	22.24	22.25	22.22	
10	16QAM	50	0	22.18	22.24	22.19	
10	64QAM	1	0	22.19	22.16	22.18	23.2
10	64QAM	1	25	22.18	22.23	22.14	
10	64QAM	1	49	22.26	22.22	22.24	
10	64QAM	25	0	21.22	21.20	21.18	22.2
10	64QAM	25	12	21.10	21.12	21.06	
10	64QAM	25	25	21.10	21.05	21.09	
10	64QAM	50	0	21.02	21.14	21.04	
10	256QAM	1	0	19.39	19.38	19.39	20.2
10	256QAM	1	25	19.07	19.25	19.17	
10	256QAM	1	49	19.02	18.97	18.97	
10	256QAM	25	0	19.02	19.13	19.05	20.2
10	256QAM	25	12	19.00	19.15	19.09	
10	256QAM	25	25	18.91	18.94	18.94	
10	256QAM	50	0	18.99	18.99	18.98	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.68	22.88	22.71	24.4
5	QPSK	1	12	22.57	22.75	22.64	
5	QPSK	1	24	22.55	22.62	22.51	
5	QPSK	12	0	22.73	22.72	22.75	24.2
5	QPSK	12	7	22.61	22.72	22.73	
5	QPSK	12	13	22.56	22.66	22.63	
5	QPSK	25	0	22.66	22.70	22.67	
5	16QAM	1	0	22.83	22.86	22.78	24.2
5	16QAM	1	12	22.71	22.74	22.68	
5	16QAM	1	24	22.45	22.47	22.44	
5	16QAM	12	0	22.14	22.27	22.22	23.2
5	16QAM	12	7	22.24	22.26	22.15	
5	16QAM	12	13	22.23	22.22	22.26	
5	16QAM	25	0	22.23	22.23	22.22	
5	64QAM	1	0	22.13	22.19	22.13	23.2
5	64QAM	1	12	22.18	22.24	22.10	
5	64QAM	1	24	22.20	22.27	22.19	
5	64QAM	12	0	21.24	21.18	21.08	22.2
5	64QAM	12	7	21.13	21.16	21.11	
5	64QAM	12	13	21.08	21.07	21.09	
5	64QAM	25	0	21.05	21.12	21.06	
5	256QAM	1	0	19.40	19.42	19.40	20.2
5	256QAM	1	12	19.13	19.20	19.16	
5	256QAM	1	24	18.99	19.03	19.04	
5	256QAM	12	0	19.08	19.13	19.04	20.2
5	256QAM	12	7	19.05	19.06	19.13	
5	256QAM	12	13	18.98	18.94	18.98	
5	256QAM	25	0	19.02	19.03	19.02	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.67	22.82	22.71	24.4
3	QPSK	1	8	22.56	22.72	22.69	
3	QPSK	1	14	22.51	22.57	22.51	
3	QPSK	8	0	22.68	22.76	22.73	24.2
3	QPSK	8	4	22.65	22.75	22.68	
3	QPSK	8	7	22.52	22.69	22.60	
3	QPSK	15	0	22.70	22.65	22.68	24.2
3	16QAM	1	0	22.86	22.85	22.83	
3	16QAM	1	8	22.76	22.74	22.72	
3	16QAM	1	14	22.45	22.47	22.50	23.2
3	16QAM	8	0	22.18	22.20	22.17	
3	16QAM	8	4	22.20	22.21	22.13	
3	16QAM	8	7	22.30	22.32	22.20	23.2
3	16QAM	15	0	22.20	22.21	22.24	
3	64QAM	1	0	22.13	22.22	22.12	
3	64QAM	1	8	22.16	22.20	22.11	22.2
3	64QAM	1	14	22.25	22.27	22.28	
3	64QAM	8	0	21.22	21.17	21.18	
3	64QAM	8	4	21.07	21.10	21.13	20.2
3	64QAM	8	7	21.11	21.14	21.07	
3	64QAM	15	0	21.10	21.10	21.05	
3	256QAM	1	0	19.33	19.42	19.35	20.2
3	256QAM	1	8	19.14	19.25	19.13	
3	256QAM	1	14	19.02	19.06	18.96	
3	256QAM	8	0	19.06	19.17	19.11	20.2
3	256QAM	8	4	19.04	19.15	19.12	
3	256QAM	8	7	18.96	18.91	18.93	
3	256QAM	15	0	19.04	19.00	18.97	20.2
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.64	22.77	22.69	24.4
1.4	QPSK	1	3	22.56	22.62	22.59	
1.4	QPSK	1	5	22.43	22.55	22.43	
1.4	QPSK	3	0	22.59	22.74	22.64	24.2
1.4	QPSK	3	1	22.61	22.67	22.60	
1.4	QPSK	3	3	22.44	22.67	22.51	
1.4	QPSK	6	0	22.68	22.60	22.67	24.2
1.4	16QAM	1	0	22.78	22.82	22.82	
1.4	16QAM	1	3	22.68	22.65	22.71	
1.4	16QAM	1	5	22.37	22.44	22.48	23.2
1.4	16QAM	3	0	22.81	22.85	22.87	
1.4	16QAM	3	1	22.88	22.83	22.77	
1.4	16QAM	3	3	22.90	22.80	22.90	23.2
1.4	16QAM	6	0	22.17	22.17	22.18	
1.4	64QAM	1	0	22.08	22.13	22.10	
1.4	64QAM	1	3	22.14	22.18	22.06	22.2
1.4	64QAM	1	5	22.18	22.24	22.20	
1.4	64QAM	3	0	22.14	22.13	22.10	
1.4	64QAM	3	1	21.97	22.01	22.11	20.2
1.4	64QAM	3	3	22.01	22.06	21.97	
1.4	64QAM	6	0	21.00	21.00	21.01	
1.4	256QAM	1	0	19.29	19.36	19.28	20.2
1.4	256QAM	1	3	19.06	19.15	19.10	
1.4	256QAM	1	5	18.98	19.00	18.90	
1.4	256QAM	3	0	19.06	19.10	19.08	20.2
1.4	256QAM	3	1	18.95	19.13	19.12	
1.4	256QAM	3	3	18.94	18.88	18.88	
1.4	256QAM	6	0	18.97	18.97	18.88	20.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.67	19.86	19.75	20.3
20	QPSK	1	49	19.58	19.74	19.70	
20	QPSK	1	99	19.54	19.55	19.52	
20	QPSK	50	0	19.75	19.81	19.78	20.3
20	QPSK	50	24	19.64	19.65	19.68	
20	QPSK	50	50	19.59	19.60	19.64	
20	QPSK	100	0	19.64	19.70	19.67	
20	16QAM	1	0	19.86	19.87	19.78	20.3
20	16QAM	1	49	19.78	19.77	19.69	
20	16QAM	1	99	19.42	19.52	19.46	
20	16QAM	50	0	19.12	19.23	19.16	20.3
20	16QAM	50	24	19.25	19.17	19.14	
20	16QAM	50	50	19.21	19.23	19.23	
20	16QAM	100	0	19.23	19.24	19.14	
20	64QAM	1	0	19.14	19.21	19.18	20.3
20	64QAM	1	49	19.17	19.14	19.09	
20	64QAM	1	99	19.21	19.30	19.28	
20	64QAM	50	0	19.22	19.19	19.09	20.3
20	64QAM	50	24	19.07	19.14	19.14	
20	64QAM	50	50	19.10	19.14	19.12	
20	64QAM	100	0	19.12	19.18	19.07	
20	256QAM	1	0	19.37	19.44	19.40	20.2
20	256QAM	1	49	19.10	19.26	19.18	
20	256QAM	1	99	19.00	19.00	19.06	
20	256QAM	50	0	19.06	19.16	19.08	20.2
20	256QAM	50	24	19.05	19.11	19.07	
20	256QAM	50	50	18.88	18.96	18.93	
20	256QAM	100	0	19.07	19.06	18.97	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.59	19.62	19.52	20.3
15	QPSK	1	37	19.40	19.49	19.57	
15	QPSK	1	74	19.67	19.74	19.66	
15	QPSK	36	0	19.52	19.58	19.63	20.3
15	QPSK	36	20	19.55	19.66	19.61	
15	QPSK	36	39	19.55	19.57	19.58	
15	QPSK	75	0	19.80	19.87	19.69	
15	16QAM	1	0	19.66	19.61	19.68	20.3
15	16QAM	1	37	19.47	19.55	19.48	
15	16QAM	1	74	19.08	19.12	19.12	
15	16QAM	36	0	19.22	19.27	19.11	20.3
15	16QAM	36	20	19.27	19.17	19.15	
15	16QAM	36	39	19.08	19.18	19.14	
15	16QAM	75	0	19.02	19.17	19.11	
15	64QAM	1	0	19.02	19.16	19.04	20.3
15	64QAM	1	37	19.28	19.15	19.14	
15	64QAM	1	74	19.22	19.15	19.09	
15	64QAM	36	0	19.04	19.08	19.04	20.3
15	64QAM	36	20	19.11	18.96	18.99	
15	64QAM	36	39	19.04	19.08	19.03	
15	64QAM	75	0	19.23	19.42	19.30	
15	256QAM	1	0	18.99	19.17	19.08	20.2
15	256QAM	1	37	18.95	18.91	19.01	
15	256QAM	1	74	18.96	19.03	19.10	
15	256QAM	36	0	18.93	19.04	19.08	20.2
15	256QAM	36	20	18.83	18.94	18.98	



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**Report No. : FA380306C**

15	256QAM	36	39	19.01	18.91	19.01	
15	256QAM	75	0	19.05	19.01	19.01	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.58	19.72	19.71	20.3
10	QPSK	1	25	19.58	19.74	19.63	
10	QPSK	1	49	19.49	19.50	19.52	
10	QPSK	25	0	19.68	19.76	19.67	20.3
10	QPSK	25	12	19.58	19.63	19.62	
10	QPSK	25	25	19.46	19.58	19.65	
10	QPSK	50	0	19.63	19.63	19.65	
10	16QAM	1	0	19.79	19.82	19.75	
10	16QAM	1	25	19.70	19.75	19.65	20.3
10	16QAM	1	49	19.38	19.54	19.45	
10	16QAM	25	0	19.10	19.22	19.13	20.3
10	16QAM	25	12	19.19	19.07	19.06	
10	16QAM	25	25	19.17	19.19	19.19	
10	16QAM	50	0	19.13	19.14	19.19	
10	64QAM	1	0	19.14	19.15	19.08	
10	64QAM	1	25	19.13	19.13	19.11	20.3
10	64QAM	1	49	19.17	19.17	19.22	
10	64QAM	25	0	19.12	19.19	19.10	
10	64QAM	25	12	19.02	19.10	19.05	20.3
10	64QAM	25	25	19.06	19.00	19.04	
10	64QAM	50	0	18.96	19.06	19.02	
10	256QAM	1	0	19.37	19.31	19.30	
10	256QAM	1	25	18.99	19.24	19.13	
10	256QAM	1	49	18.98	18.88	18.92	20.2
10	256QAM	25	0	19.00	19.06	18.98	
10	256QAM	25	12	18.98	19.11	19.04	
10	256QAM	25	25	18.82	18.93	18.93	
10	256QAM	50	0	18.90	18.90	18.88	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.64	19.84	19.67	20.3
5	QPSK	1	12	19.51	19.74	19.59	
5	QPSK	1	24	19.54	19.57	19.49	
5	QPSK	12	0	19.73	19.66	19.68	20.3
5	QPSK	12	7	19.52	19.67	19.63	
5	QPSK	12	13	19.55	19.66	19.62	
5	QPSK	25	0	19.63	19.63	19.61	
5	16QAM	1	0	19.81	19.82	19.78	
5	16QAM	1	12	19.61	19.66	19.66	20.3
5	16QAM	1	24	19.40	19.43	19.44	
5	16QAM	12	0	19.10	19.20	19.14	
5	16QAM	12	7	19.20	19.20	19.09	20.3
5	16QAM	12	13	19.20	19.13	19.17	
5	16QAM	25	0	19.17	19.22	19.21	
5	64QAM	1	0	19.08	19.14	19.09	
5	64QAM	1	12	19.14	19.18	19.07	
5	64QAM	1	24	19.14	19.18	19.09	20.3
5	64QAM	12	0	19.16	19.18	19.07	
5	64QAM	12	7	19.12	19.08	19.07	
5	64QAM	12	13	19.06	18.98	19.08	
5	64QAM	25	0	18.99	19.09	18.99	
5	256QAM	1	0	19.34	19.34	19.36	20.2
5	256QAM	1	12	19.11	19.19	19.07	
5	256QAM	1	24	18.90	18.97	18.94	
5	256QAM	12	0	19.05	19.11	19.03	
5	256QAM	12	7	19.04	18.99	19.10	
5	256QAM	12	13	18.92	18.93	18.91	20.2
5	256QAM	25	0	18.94	19.01	19.02	



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Channel				131987	132322	132657	Tune-up limit (dBm)	
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.58	19.75	19.63	20.3	
3	QPSK	1	8	19.53	19.63	19.64		
3	QPSK	1	14	19.46	19.56	19.46		
3	QPSK	8	0	19.59	19.68	19.69	20.3	
3	QPSK	8	4	19.58	19.71	19.62		
3	QPSK	8	7	19.44	19.66	19.51		
3	QPSK	15	0	19.60	19.64	19.61	20.3	
3	16QAM	1	0	19.81	19.84	19.79		
3	16QAM	1	8	19.74	19.70	19.68		
3	16QAM	1	14	19.37	19.46	19.42	20.3	
3	16QAM	8	0	19.14	19.18	19.12		
3	16QAM	8	4	19.16	19.17	19.08		
3	16QAM	8	7	19.22	19.32	19.15	20.3	
3	16QAM	15	0	19.11	19.16	19.24		
3	64QAM	1	0	19.09	19.12	19.06		
3	64QAM	1	8	19.07	19.10	19.04	20.3	
3	64QAM	1	14	19.24	19.22	19.26		
3	64QAM	8	0	19.21	19.11	19.17		
3	64QAM	8	4	19.02	19.07	19.08	20.3	
3	64QAM	8	7	19.02	19.12	19.01		
3	64QAM	15	0	19.07	19.08	18.99		
3	256QAM	1	0	19.26	19.36	19.35	20.2	
3	256QAM	1	8	19.13	19.18	19.06		
3	256QAM	1	14	18.95	19.00	18.87		
3	256QAM	8	0	19.00	19.11	19.05	20.2	
3	256QAM	8	4	18.99	19.08	19.09		
3	256QAM	8	7	18.96	18.89	18.83		
3	256QAM	15	0	19.01	18.98	18.88	20.2	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.57	19.68	19.68	20.3	
1.4	QPSK	1	3	19.52	19.53	19.52		
1.4	QPSK	1	5	19.35	19.51	19.35		
1.4	QPSK	3	0	19.53	19.71	19.64	20.3	
1.4	QPSK	3	1	19.55	19.64	19.59		
1.4	QPSK	3	3	19.42	19.62	19.49		
1.4	QPSK	6	0	19.67	19.60	19.67	20.3	
1.4	16QAM	1	0	19.68	19.81	19.72		
1.4	16QAM	1	3	19.63	19.63	19.69		
1.4	16QAM	1	5	19.30	19.39	19.47	20.3	
1.4	16QAM	3	0	19.73	19.83	19.83		
1.4	16QAM	3	1	19.82	19.79	19.73		
1.4	16QAM	3	3	19.80	19.74	19.83	20.3	
1.4	16QAM	6	0	19.07	19.11	19.09		
1.4	64QAM	1	0	18.99	19.13	19.00		
1.4	64QAM	1	3	19.08	19.15	19.00	20.3	
1.4	64QAM	1	5	19.10	19.20	19.13		
1.4	64QAM	3	0	19.06	19.05	19.03		
1.4	64QAM	3	1	18.89	18.94	19.05	20.3	
1.4	64QAM	3	3	19.01	19.02	18.95		
1.4	64QAM	6	0	18.97	18.99	18.96		
1.4	256QAM	1	0	19.23	19.26	19.27	20.2	
1.4	256QAM	1	3	18.97	19.08	19.03		
1.4	256QAM	1	5	18.91	18.92	18.88		
1.4	256QAM	3	0	19.06	19.04	19.02	20.2	
1.4	256QAM	3	1	18.94	19.09	19.05		
1.4	256QAM	3	3	18.85	18.84	18.83		
1.4	256QAM	6	0	18.96	18.92	18.88	20.2	



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)			
132072	132322	132572					
1720	1745	1770					
20	QPSK	1	0	24.38	24.41	24.30	25.2
20	QPSK	1	49	24.31	24.35	24.21	
20	QPSK	1	99	24.19	24.06	24.15	
20	QPSK	50	0	23.30	23.33	23.12	24.2
20	QPSK	50	24	23.27	23.24	23.09	
20	QPSK	50	50	23.21	23.15	23.10	
20	QPSK	100	0	23.26	23.27	23.20	24.2
20	16QAM	1	0	23.48	23.52	23.37	
20	16QAM	1	49	23.40	23.44	23.24	
20	16QAM	1	99	23.29	23.21	23.26	23.2
20	16QAM	50	0	22.35	22.28	22.09	
20	16QAM	50	24	22.28	22.21	22.06	
20	16QAM	50	50	22.20	22.14	22.04	23.2
20	16QAM	100	0	22.24	22.18	22.29	
20	64QAM	1	0	22.51	22.46	22.27	
20	64QAM	1	49	22.42	22.34	22.23	23.2
20	64QAM	1	99	22.25	22.16	22.20	
20	64QAM	50	0	21.29	21.24	21.09	
20	64QAM	50	24	21.24	21.16	21.07	22.2
20	64QAM	50	50	21.18	21.10	21.05	
20	64QAM	100	0	21.19	21.16	21.06	
20	256QAM	1	0	19.38	19.41	19.08	20.2
20	256QAM	1	49	19.33	19.21	19.12	
20	256QAM	1	99	19.14	19.07	19.04	
20	256QAM	50	0	19.24	19.18	18.97	20.2
20	256QAM	50	24	19.19	19.10	18.95	
20	256QAM	50	50	19.09	19.01	18.93	
20	256QAM	100	0	19.17	19.10	18.93	
132047	132322	132597					
1717.5	1745	1772.5					
15	QPSK	1	0	24.31	24.33	24.22	25.2
15	QPSK	1	37	24.22	24.27	24.13	
15	QPSK	1	74	24.13	23.97	24.06	
15	QPSK	36	0	23.25	23.28	23.03	24.2
15	QPSK	36	20	23.17	23.18	23.03	
15	QPSK	36	39	23.16	23.09	23.00	
15	QPSK	75	0	23.16	23.21	23.14	24.2
15	16QAM	1	0	23.41	23.43	23.29	
15	16QAM	1	37	23.31	23.35	23.14	
15	16QAM	1	74	23.21	23.15	23.16	23.2
15	16QAM	36	0	22.27	22.22	22.04	
15	16QAM	36	20	22.21	22.16	21.96	
15	16QAM	36	39	22.13	22.09	21.99	23.2
15	16QAM	75	0	22.17	22.09	22.21	
15	64QAM	1	0	22.41	22.39	22.17	
15	64QAM	1	37	22.34	22.26	22.14	23.2
15	64QAM	1	74	22.19	22.09	22.14	
15	64QAM	36	0	21.22	21.16	20.99	
15	64QAM	36	20	21.14	21.08	21.02	22.2
15	64QAM	36	39	21.13	21.02	20.95	
15	64QAM	75	0	21.10	21.09	21.00	
15	256QAM	1	0	19.28	19.31	19.01	20.2
15	256QAM	1	37	19.28	19.13	19.05	
15	256QAM	1	74	19.09	19.02	18.94	
15	256QAM	36	0	19.15	19.09	18.92	20.2
15	256QAM	36	20	19.13	19.01	18.86	



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15	256QAM	36	39	19.00	18.93	18.84	
15	256QAM	75	0	19.07	19.02	18.88	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.28	24.31	24.20	25.2
10	QPSK	1	25	24.26	24.26	24.16	
10	QPSK	1	49	24.11	23.96	24.09	
10	QPSK	25	0	23.21	23.28	23.05	24.2
10	QPSK	25	12	23.17	23.17	23.02	
10	QPSK	25	25	23.11	23.06	23.01	
10	QPSK	50	0	23.19	23.17	23.14	
10	16QAM	1	0	23.43	23.43	23.30	24.2
10	16QAM	1	25	23.35	23.38	23.17	
10	16QAM	1	49	23.23	23.16	23.17	
10	16QAM	25	0	22.30	22.20	22.04	23.2
10	16QAM	25	12	22.20	22.15	21.98	
10	16QAM	25	25	22.13	22.09	21.98	
10	16QAM	50	0	22.16	22.10	22.23	
10	64QAM	1	0	22.44	22.38	22.17	23.2
10	64QAM	1	25	22.33	22.25	22.14	
10	64QAM	1	49	22.20	22.07	22.15	
10	64QAM	25	0	21.21	21.14	21.00	22.2
10	64QAM	25	12	21.18	21.11	21.01	
10	64QAM	25	25	21.08	21.03	20.97	
10	64QAM	50	0	21.13	21.11	20.98	
10	256QAM	1	0	19.28	19.35	19.03	20.2
10	256QAM	1	25	19.24	19.16	19.02	
10	256QAM	1	49	19.05	19.00	18.98	
10	256QAM	25	0	19.18	19.09	18.90	20.2
10	256QAM	25	12	19.09	19.02	18.90	
10	256QAM	25	25	19.01	18.92	18.84	
10	256QAM	50	0	19.10	19.05	18.86	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.31	24.31	24.22	25.2
5	QPSK	1	12	24.23	24.29	24.14	
5	QPSK	1	24	24.11	24.00	24.07	
5	QPSK	12	0	23.23	23.23	23.03	24.2
5	QPSK	12	7	23.21	23.18	23.00	
5	QPSK	12	13	23.11	23.09	23.02	
5	QPSK	25	0	23.17	23.19	23.14	
5	16QAM	1	0	23.40	23.45	23.32	24.2
5	16QAM	1	12	23.33	23.34	23.14	
5	16QAM	1	24	23.19	23.13	23.21	
5	16QAM	12	0	22.30	22.22	22.04	23.2
5	16QAM	12	7	22.21	22.16	21.96	
5	16QAM	12	13	22.11	22.09	21.97	
5	16QAM	25	0	22.18	22.10	22.21	
5	64QAM	1	0	22.43	22.38	22.22	23.2
5	64QAM	1	12	22.32	22.29	22.15	
5	64QAM	1	24	22.15	22.06	22.10	
5	64QAM	12	0	21.20	21.14	20.99	22.2
5	64QAM	12	7	21.16	21.10	21.00	
5	64QAM	12	13	21.08	21.03	20.95	
5	64QAM	25	0	21.09	21.07	21.00	
5	256QAM	1	0	19.31	19.33	19.02	20.2
5	256QAM	1	12	19.24	19.15	19.07	
5	256QAM	1	24	19.07	19.02	18.96	
5	256QAM	12	0	19.18	19.10	18.88	20.2
5	256QAM	12	7	19.09	19.05	18.88	
5	256QAM	12	13	19.00	18.94	18.87	
5	256QAM	25	0	19.07	19.05	18.86	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	24.30	24.35	24.25	25.2
3	QPSK	1	8	24.25	24.30	24.13	
3	QPSK	1	14	24.14	23.98	24.07	
3	QPSK	8	0	23.25	23.23	23.02	24.2
3	QPSK	8	4	23.17	23.16	23.03	
3	QPSK	8	7	23.16	23.05	23.05	
3	QPSK	15	0	23.19	23.19	23.12	24.2
3	16QAM	1	0	23.43	23.46	23.28	
3	16QAM	1	8	23.35	23.35	23.19	
3	16QAM	1	14	23.23	23.15	23.17	23.2
3	16QAM	8	0	22.25	22.19	22.01	
3	16QAM	8	4	22.21	22.14	22.01	
3	16QAM	8	7	22.10	22.06	21.99	23.2
3	16QAM	15	0	22.16	22.10	22.19	
3	64QAM	1	0	22.41	22.38	22.19	
3	64QAM	1	8	22.36	22.29	22.14	23.2
3	64QAM	1	14	22.18	22.06	22.12	
3	64QAM	8	0	21.20	21.14	21.02	
3	64QAM	8	4	21.15	21.09	21.01	22.2
3	64QAM	8	7	21.10	21.05	20.98	
3	64QAM	15	0	21.13	21.08	21.00	
3	256QAM	1	0	19.30	19.36	19.01	20.2
3	256QAM	1	8	19.27	19.14	19.07	
3	256QAM	1	14	19.04	19.00	18.98	
3	256QAM	8	0	19.17	19.13	18.92	20.2
3	256QAM	8	4	19.10	19.02	18.85	
3	256QAM	8	7	19.02	18.93	18.88	
3	256QAM	15	0	19.08	19.00	18.84	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.92	23.93	23.91	25.2
1.4	QPSK	1	3	23.80	23.84	23.82	
1.4	QPSK	1	5	23.81	23.86	23.82	
1.4	QPSK	3	0	23.85	23.90	23.88	24.2
1.4	QPSK	3	1	23.91	23.93	23.91	
1.4	QPSK	3	3	23.86	23.90	23.87	
1.4	QPSK	6	0	22.92	22.96	22.91	24.2
1.4	16QAM	1	0	23.21	23.25	23.24	
1.4	16QAM	1	3	23.15	23.20	23.17	
1.4	16QAM	1	5	23.16	23.20	23.17	24.2
1.4	16QAM	3	0	22.89	22.94	22.89	
1.4	16QAM	3	1	22.90	22.93	22.92	
1.4	16QAM	3	3	22.89	22.91	22.86	23.2
1.4	16QAM	6	0	21.99	22.00	21.98	
1.4	64QAM	1	0	22.23	22.24	22.23	
1.4	64QAM	1	3	22.14	22.18	22.13	23.2
1.4	64QAM	1	5	22.26	22.27	22.26	
1.4	64QAM	3	0	21.94	21.99	21.95	
1.4	64QAM	3	1	21.96	21.98	21.93	22.2
1.4	64QAM	3	3	21.96	21.97	21.95	
1.4	64QAM	6	0	20.93	20.95	20.92	
1.4	256QAM	1	0	19.06	19.09	19.05	20.2
1.4	256QAM	1	3	18.94	18.95	18.91	
1.4	256QAM	1	5	19.07	19.10	19.08	
1.4	256QAM	3	0	19.00	19.01	19.00	20.2
1.4	256QAM	3	1	18.95	19.00	18.95	
1.4	256QAM	3	3	18.99	19.01	18.96	
1.4	256QAM	6	0	18.84	18.87	18.84	20.2





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	24.36	24.38	24.30	25.7
20	QPSK	1	49	24.17	24.25	24.18	
20	QPSK	1	99	24.19	24.22	24.18	
20	QPSK	50	0	23.35	23.36	23.33	24.7
20	QPSK	50	24	23.33	23.31	23.29	
20	QPSK	50	50	23.28	23.28	23.27	
20	QPSK	100	0	23.29	23.30	23.27	
20	16QAM	1	0	23.52	23.56	23.51	24.7
20	16QAM	1	49	23.38	23.44	23.34	
20	16QAM	1	99	23.39	23.36	23.32	
20	16QAM	50	0	22.33	22.32	22.27	23.7
20	16QAM	50	24	22.32	22.31	22.24	
20	16QAM	50	50	22.27	22.26	22.23	
20	16QAM	100	0	22.28	22.30	22.24	
20	64QAM	1	0	22.46	22.47	22.55	23.7
20	64QAM	1	49	22.38	22.39	22.42	
20	64QAM	1	99	22.43	22.43	22.37	
20	64QAM	50	0	21.37	21.37	21.35	22.7
20	64QAM	50	24	21.37	21.35	21.32	
20	64QAM	50	50	21.30	21.32	21.29	
20	64QAM	100	0	21.33	21.32	21.27	
20	256QAM	1	0	19.57	19.60	19.59	20.7
20	256QAM	1	49	19.36	19.45	19.35	
20	256QAM	1	99	19.22	19.35	19.24	
20	256QAM	50	0	19.36	19.48	19.37	20.7
20	256QAM	50	24	19.31	19.43	19.27	
20	256QAM	50	50	19.22	19.32	19.25	
20	256QAM	100	0	19.36	19.41	19.32	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.17	24.18	24.13	25.7
15	QPSK	1	37	24.13	24.14	24.06	
15	QPSK	1	74	24.08	24.09	24.06	
15	QPSK	36	0	23.27	23.26	23.19	24.7
15	QPSK	36	20	23.23	23.24	23.17	
15	QPSK	36	39	23.21	23.20	23.15	
15	QPSK	75	0	23.28	23.28	23.21	
15	16QAM	1	0	23.43	23.45	23.33	24.7
15	16QAM	1	37	23.42	23.39	23.37	
15	16QAM	1	74	23.29	23.28	23.27	
15	16QAM	36	0	22.25	22.26	22.19	23.7
15	16QAM	36	20	22.25	22.23	22.19	
15	16QAM	36	39	22.22	22.21	22.17	
15	16QAM	75	0	22.28	22.29	22.22	
15	64QAM	1	0	22.44	22.51	22.40	23.7
15	64QAM	1	37	22.55	22.50	22.44	
15	64QAM	1	74	22.46	22.37	22.34	
15	64QAM	36	0	21.32	21.31	21.22	22.7
15	64QAM	36	20	21.31	21.28	21.22	
15	64QAM	36	39	21.28	21.27	21.20	
15	64QAM	75	0	21.31	21.28	21.23	
15	256QAM	1	0	19.41	19.40	19.45	20.7
15	256QAM	1	37	19.19	19.27	19.21	
15	256QAM	1	74	19.09	19.23	19.09	
15	256QAM	36	0	19.26	19.28	19.18	20.7
15	256QAM	36	20	19.11	19.31	19.14	
15	256QAM	36	39	19.09	19.21	19.13	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

15	256QAM	75	0	19.21	19.23	19.19	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.29	24.30	24.18	25.7
10	QPSK	1	25	24.12	24.06	23.94	
10	QPSK	1	49	24.20	24.14	24.08	
10	QPSK	25	0	23.32	23.34	23.27	24.7
10	QPSK	25	12	23.31	23.33	23.25	
10	QPSK	25	25	23.31	23.33	23.24	
10	QPSK	50	0	23.32	23.36	23.28	
10	16QAM	1	0	23.50	23.51	23.41	24.7
10	16QAM	1	25	23.45	23.48	23.38	
10	16QAM	1	49	23.43	23.41	23.30	
10	16QAM	25	0	22.34	22.37	22.31	23.7
10	16QAM	25	12	22.35	22.34	22.30	
10	16QAM	25	25	22.34	22.35	22.30	
10	16QAM	50	0	22.31	22.33	22.27	
10	64QAM	1	0	22.53	22.46	22.39	23.7
10	64QAM	1	25	22.45	22.39	22.33	
10	64QAM	1	49	22.42	22.39	22.28	
10	64QAM	25	0	21.34	21.37	21.28	22.7
10	64QAM	25	12	21.36	21.35	21.27	
10	64QAM	25	25	21.33	21.31	21.26	
10	64QAM	50	0	21.37	21.36	21.31	
10	256QAM	1	0	19.42	19.46	19.41	20.7
10	256QAM	1	25	19.23	19.33	19.16	
10	256QAM	1	49	19.09	19.20	19.10	
10	256QAM	25	0	19.18	19.32	19.27	20.7
10	256QAM	25	12	19.14	19.23	19.07	
10	256QAM	25	25	19.07	19.12	19.08	
10	256QAM	50	0	19.18	19.30	19.22	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.16	24.23	24.13	25.7
5	QPSK	1	12	24.11	24.15	24.10	
5	QPSK	1	24	24.15	24.20	24.11	
5	QPSK	12	0	23.24	23.32	23.23	24.7
5	QPSK	12	7	23.26	23.33	23.22	
5	QPSK	12	13	23.24	23.31	23.19	
5	QPSK	25	0	23.24	23.32	23.23	
5	16QAM	1	0	23.50	23.63	23.50	24.7
5	16QAM	1	12	23.46	23.55	23.44	
5	16QAM	1	24	23.57	23.57	23.35	
5	16QAM	12	0	22.25	22.32	22.23	23.7
5	16QAM	12	7	22.28	22.32	22.25	
5	16QAM	12	13	22.27	22.33	22.22	
5	16QAM	25	0	22.30	22.36	22.28	
5	64QAM	1	0	22.37	22.57	22.40	23.7
5	64QAM	1	12	22.41	22.46	22.37	
5	64QAM	1	24	22.40	22.48	22.31	
5	64QAM	12	0	21.35	21.42	21.32	22.7
5	64QAM	12	7	21.36	21.40	21.32	
5	64QAM	12	13	21.37	21.38	21.28	
5	64QAM	25	0	21.30	21.36	21.26	
5	256QAM	1	0	19.43	19.49	19.40	20.7
5	256QAM	1	12	19.18	19.32	19.17	
5	256QAM	1	24	19.10	19.18	19.08	
5	256QAM	12	0	19.23	19.31	19.27	20.7
5	256QAM	12	7	19.13	19.24	19.17	
5	256QAM	12	13	19.12	19.12	19.15	
5	256QAM	25	0	19.21	19.31	19.21	



<LTE Band 71\_Ant 1\_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	21.91	21.93	21.89	23
20	QPSK	1	49	21.81	21.78	21.72	
20	QPSK	1	99	21.75	21.81	21.77	
20	QPSK	50	0	22.00	21.98	21.99	23
20	QPSK	50	24	21.94	21.92	21.93	
20	QPSK	50	50	21.89	21.89	21.88	
20	QPSK	100	0	21.93	21.92	21.91	23
20	16QAM	1	0	22.09	22.24	22.14	
20	16QAM	1	49	22.00	22.03	22.05	
20	16QAM	1	99	21.99	22.07	21.96	23
20	16QAM	50	0	21.93	21.92	21.91	
20	16QAM	50	24	21.91	21.89	21.89	
20	16QAM	50	50	21.87	21.87	21.87	23
20	16QAM	100	0	21.89	21.86	21.88	
20	64QAM	1	0	22.08	22.19	22.00	
20	64QAM	1	49	22.01	21.96	22.03	23
20	64QAM	1	99	21.97	22.06	21.98	
20	64QAM	50	0	21.05	21.08	21.03	
20	64QAM	50	24	21.06	21.05	21.02	22.3
20	64QAM	50	50	21.03	21.02	21.03	
20	64QAM	100	0	21.05	21.00	20.99	
20	256QAM	1	0	18.99	19.13	19.14	20.3
20	256QAM	1	49	18.72	18.98	18.86	
20	256QAM	1	99	18.70	18.83	18.95	
20	256QAM	50	0	18.92	18.95	18.93	20.3
20	256QAM	50	24	18.88	18.92	18.86	
20	256QAM	50	50	18.77	18.73	18.84	
20	256QAM	100	0	18.74	18.82	18.89	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	21.87	21.86	21.81	23
15	QPSK	1	37	21.74	21.72	21.67	
15	QPSK	1	74	21.71	21.80	21.69	
15	QPSK	36	0	22.00	21.89	21.91	23
15	QPSK	36	20	21.87	21.92	21.84	
15	QPSK	36	39	21.87	21.87	21.88	
15	QPSK	75	0	21.93	21.82	21.90	23
15	16QAM	1	0	22.01	22.19	22.13	
15	16QAM	1	37	21.97	21.99	21.98	
15	16QAM	1	74	21.90	22.01	21.88	23
15	16QAM	36	0	21.93	21.89	21.83	
15	16QAM	36	20	21.83	21.86	21.81	
15	16QAM	36	39	21.83	21.83	21.84	23
15	16QAM	75	0	21.83	21.84	21.79	
15	64QAM	1	0	22.05	22.15	21.90	
15	64QAM	1	37	21.99	21.87	21.95	23
15	64QAM	1	74	21.89	21.99	21.95	
15	64QAM	36	0	21.05	21.01	21.01	
15	64QAM	36	20	21.01	21.03	20.95	22.3
15	64QAM	36	39	20.99	20.94	20.94	
15	64QAM	75	0	21.05	20.92	20.97	
15	256QAM	1	0	18.91	19.04	19.07	20.3
15	256QAM	1	37	18.66	18.90	18.82	
15	256QAM	1	74	18.63	18.78	18.89	
15	256QAM	36	0	18.89	18.91	18.83	20.3
15	256QAM	36	20	18.88	18.84	18.80	
15	256QAM	36	39	18.75	18.68	18.74	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

15	256QAM	75	0	18.66	18.80	18.89	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	21.87	21.87	21.86	23
10	QPSK	1	25	21.74	21.71	21.66	
10	QPSK	1	49	21.68	21.81	21.69	
10	QPSK	25	0	22.00	21.92	21.97	23
10	QPSK	25	12	21.86	21.85	21.93	
10	QPSK	25	25	21.82	21.88	21.84	
10	QPSK	50	0	21.84	21.91	21.86	
10	16QAM	1	0	22.00	22.16	22.10	23
10	16QAM	1	25	21.92	22.01	22.02	
10	16QAM	1	49	21.99	22.00	21.95	
10	16QAM	25	0	21.92	21.84	21.86	23
10	16QAM	25	12	21.82	21.84	21.82	
10	16QAM	25	25	21.78	21.86	21.87	
10	16QAM	50	0	21.82	21.83	21.81	
10	64QAM	1	0	21.99	22.16	21.93	23
10	64QAM	1	25	21.96	21.95	21.97	
10	64QAM	1	49	21.96	21.97	21.93	
10	64QAM	25	0	20.95	20.98	20.96	22.3
10	64QAM	25	12	21.02	21.02	20.96	
10	64QAM	25	25	21.02	20.92	20.93	
10	64QAM	50	0	21.02	20.98	20.98	
10	256QAM	1	0	18.89	19.11	19.07	20.3
10	256QAM	1	25	18.65	18.95	18.81	
10	256QAM	1	49	18.68	18.75	18.86	
10	256QAM	25	0	18.88	18.85	18.93	20.3
10	256QAM	25	12	18.86	18.91	18.78	
10	256QAM	25	25	18.73	18.63	18.75	
10	256QAM	50	0	18.66	18.78	18.85	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	21.86	21.91	21.81	23
5	QPSK	1	12	21.80	21.77	21.72	
5	QPSK	1	24	21.75	21.72	21.73	
5	QPSK	12	0	21.90	21.95	21.96	23
5	QPSK	12	7	21.86	21.82	21.91	
5	QPSK	12	13	21.84	21.85	21.84	
5	QPSK	25	0	21.85	21.89	21.86	
5	16QAM	1	0	22.02	22.17	22.05	23
5	16QAM	1	12	21.98	22.00	21.95	
5	16QAM	1	24	21.93	21.99	21.92	
5	16QAM	12	0	21.89	21.86	21.88	23
5	16QAM	12	7	21.89	21.88	21.82	
5	16QAM	12	13	21.84	21.82	21.80	
5	16QAM	25	0	21.83	21.86	21.79	
5	64QAM	1	0	22.07	22.09	21.96	23
5	64QAM	1	12	21.92	21.93	22.01	
5	64QAM	1	24	21.88	21.97	21.97	
5	64QAM	12	0	20.95	21.01	20.95	22.3
5	64QAM	12	7	20.99	21.01	20.94	
5	64QAM	12	13	20.94	20.96	20.95	
5	64QAM	25	0	20.97	20.95	20.98	
5	256QAM	1	0	18.98	19.08	19.06	20.3
5	256QAM	1	12	18.65	18.96	18.80	
5	256QAM	1	24	18.66	18.80	18.89	
5	256QAM	12	0	18.91	18.95	18.89	20.3
5	256QAM	12	7	18.81	18.88	18.84	
5	256QAM	12	13	18.74	18.67	18.82	
5	256QAM	25	0	18.72	18.80	18.81	



<LTE Band 71\_Ant 1\_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	20.36	20.35	20.38	21
20	QPSK	1	49	20.28	20.20	20.20	
20	QPSK	1	99	20.18	20.21	20.21	
20	QPSK	50	0	20.49	20.42	20.41	21
20	QPSK	50	24	20.40	20.35	20.41	
20	QPSK	50	50	20.35	20.30	20.32	
20	QPSK	100	0	20.40	20.41	20.32	21
20	16QAM	1	0	20.55	20.71	20.56	
20	16QAM	1	49	20.46	20.47	20.53	
20	16QAM	1	99	20.44	20.52	20.44	21
20	16QAM	50	0	20.41	20.37	20.32	
20	16QAM	50	24	20.39	20.32	20.31	
20	16QAM	50	50	20.28	20.30	20.32	21
20	16QAM	100	0	20.31	20.36	20.35	
20	64QAM	1	0	20.54	20.69	20.43	
20	64QAM	1	49	20.43	20.40	20.45	21
20	64QAM	1	99	20.42	20.53	20.40	
20	64QAM	50	0	20.55	20.52	20.43	
20	64QAM	50	24	20.54	20.52	20.42	21
20	64QAM	50	50	20.44	20.43	20.44	
20	64QAM	100	0	20.47	20.49	20.49	
20	256QAM	1	0	18.92	19.11	19.08	20.3
20	256QAM	1	49	18.65	18.88	18.77	
20	256QAM	1	99	18.66	18.78	18.90	
20	256QAM	50	0	18.82	18.95	18.88	20.3
20	256QAM	50	24	18.81	18.88	18.78	
20	256QAM	50	50	18.77	18.73	18.75	
20	256QAM	100	0	18.67	18.76	18.89	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	20.33	20.28	20.22	21
15	QPSK	1	37	20.17	20.14	20.17	
15	QPSK	1	74	20.14	20.24	20.19	
15	QPSK	36	0	20.43	20.29	20.39	21
15	QPSK	36	20	20.27	20.33	20.31	
15	QPSK	36	39	20.28	20.28	20.33	
15	QPSK	75	0	20.43	20.31	20.33	21
15	16QAM	1	0	20.47	20.66	20.62	
15	16QAM	1	37	20.42	20.48	20.40	
15	16QAM	1	74	20.37	20.47	20.37	21
15	16QAM	36	0	20.40	20.32	20.33	
15	16QAM	36	20	20.27	20.28	20.31	
15	16QAM	36	39	20.27	20.32	20.24	21
15	16QAM	75	0	20.32	20.30	20.28	
15	64QAM	1	0	20.47	20.55	20.37	
15	64QAM	1	37	20.47	20.30	20.43	21
15	64QAM	1	74	20.30	20.45	20.38	
15	64QAM	36	0	20.55	20.50	20.51	
15	64QAM	36	20	20.46	20.53	20.37	21
15	64QAM	36	39	20.49	20.41	20.42	
15	64QAM	75	0	20.55	20.38	20.46	
15	256QAM	1	0	18.86	18.95	19.03	20.3
15	256QAM	1	37	18.65	18.81	18.78	
15	256QAM	1	74	18.62	18.75	18.89	
15	256QAM	36	0	18.82	18.88	18.83	20.3
15	256QAM	36	20	18.88	18.76	18.74	
15	256QAM	36	39	18.74	18.61	18.71	



**FCC SAR TEST REPORT**

**Report No. : FA380306C**

15	256QAM	75	0	18.59	18.78	18.85	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	20.31	20.32	20.32	21
10	QPSK	1	25	20.24	20.15	20.11	
10	QPSK	1	49	20.18	20.24	20.15	
10	QPSK	25	0	20.47	20.35	20.43	21
10	QPSK	25	12	20.29	20.31	20.38	
10	QPSK	25	25	20.27	20.34	20.24	
10	QPSK	50	0	20.26	20.38	20.34	
10	16QAM	1	0	20.48	20.61	20.51	21
10	16QAM	1	25	20.36	20.49	20.44	
10	16QAM	1	49	20.42	20.49	20.45	
10	16QAM	25	0	20.37	20.25	20.35	21
10	16QAM	25	12	20.25	20.33	20.29	
10	16QAM	25	25	20.28	20.32	20.28	
10	16QAM	50	0	20.30	20.31	20.29	
10	64QAM	1	0	20.42	20.66	20.35	21
10	64QAM	1	25	20.39	20.41	20.44	
10	64QAM	1	49	20.36	20.40	20.36	
10	64QAM	25	0	20.38	20.46	20.45	21
10	64QAM	25	12	20.48	20.52	20.46	
10	64QAM	25	25	20.50	20.34	20.38	
10	64QAM	50	0	20.43	20.40	20.42	
10	256QAM	1	0	18.81	19.01	18.99	20.3
10	256QAM	1	25	18.57	18.90	18.79	
10	256QAM	1	49	18.61	18.75	18.76	
10	256QAM	25	0	18.80	18.82	18.84	20.3
10	256QAM	25	12	18.85	18.83	18.74	
10	256QAM	25	25	18.66	18.61	18.74	
10	256QAM	50	0	18.60	18.72	18.84	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	20.29	20.37	20.22	21
5	QPSK	1	12	20.26	20.24	20.17	
5	QPSK	1	24	20.15	20.21	20.23	
5	QPSK	12	0	20.36	20.43	20.46	21
5	QPSK	12	7	20.31	20.29	20.36	
5	QPSK	12	13	20.33	20.28	20.32	
5	QPSK	25	0	20.27	20.39	20.28	
5	16QAM	1	0	20.51	20.60	20.45	21
5	16QAM	1	12	20.48	20.42	20.40	
5	16QAM	1	24	20.36	20.39	20.40	
5	16QAM	12	0	20.35	20.29	20.38	21
5	16QAM	12	7	20.32	20.36	20.32	
5	16QAM	12	13	20.27	20.24	20.22	
5	16QAM	25	0	20.27	20.28	20.26	
5	64QAM	1	0	20.57	20.50	20.38	21
5	64QAM	1	12	20.36	20.39	20.42	
5	64QAM	1	24	20.29	20.43	20.45	
5	64QAM	12	0	20.38	20.49	20.37	21
5	64QAM	12	7	20.44	20.51	20.41	
5	64QAM	12	13	20.38	20.42	20.38	
5	64QAM	25	0	20.47	20.43	20.47	
5	256QAM	1	0	18.98	19.01	19.06	20.3
5	256QAM	1	12	18.59	18.92	18.75	
5	256QAM	1	24	18.66	18.79	18.85	
5	256QAM	12	0	18.88	18.90	18.88	20.3
5	256QAM	12	7	18.81	18.83	18.77	
5	256QAM	12	13	18.66	18.58	18.81	
5	256QAM	25	0	18.70	18.75	18.75	



<LTE Band 71\_Ant 1\_Index 4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.90	23.94	23.93	25.3
20	QPSK	1	49	23.75	23.77	23.78	
20	QPSK	1	99	23.72	23.79	23.80	
20	QPSK	50	0	23.02	23.06	23.03	24.3
20	QPSK	50	24	23.00	23.04	22.97	
20	QPSK	50	50	22.95	22.97	22.96	
20	QPSK	100	0	23.00	23.05	22.98	24.3
20	16QAM	1	0	23.33	23.25	23.16	
20	16QAM	1	49	23.26	23.11	23.22	
20	16QAM	1	99	23.16	23.16	23.19	23.3
20	16QAM	50	0	22.01	22.00	22.00	
20	16QAM	50	24	22.00	21.96	21.99	
20	16QAM	50	50	21.95	21.93	21.94	23.3
20	16QAM	100	0	22.01	21.95	21.95	
20	64QAM	1	0	22.26	22.18	22.19	
20	64QAM	1	49	22.25	21.93	22.16	22.3
20	64QAM	1	99	22.07	22.04	22.03	
20	64QAM	50	0	21.08	21.05	21.05	
20	64QAM	50	24	21.05	21.03	21.02	20.3
20	64QAM	50	50	21.01	20.99	21.01	
20	64QAM	100	0	21.04	20.98	21.00	
20	256QAM	1	0	19.07	19.20	19.16	20.3
20	256QAM	1	49	18.73	19.03	18.91	
20	256QAM	1	99	18.73	18.91	18.96	
20	256QAM	50	0	18.96	18.98	18.98	20.3
20	256QAM	50	24	18.92	18.93	18.91	
20	256QAM	50	50	18.77	18.81	18.90	
20	256QAM	100	0	18.84	18.90	18.91	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.76	23.84	23.75	25.3
15	QPSK	1	37	23.59	23.65	23.62	
15	QPSK	1	74	23.64	23.67	23.67	
15	QPSK	36	0	22.87	22.85	22.80	24.3
15	QPSK	36	20	22.84	22.84	22.79	
15	QPSK	36	39	22.80	22.83	22.81	
15	QPSK	75	0	22.85	22.89	22.87	24.3
15	16QAM	1	0	23.19	23.21	23.09	
15	16QAM	1	37	23.06	23.06	23.16	
15	16QAM	1	74	23.11	23.05	23.02	23.3
15	16QAM	36	0	21.89	21.86	21.83	
15	16QAM	36	20	21.85	21.85	21.82	
15	16QAM	36	39	21.86	21.81	21.83	23.3
15	16QAM	75	0	21.90	21.89	21.88	
15	64QAM	1	0	22.10	22.19	22.05	
15	64QAM	1	37	21.97	22.04	22.17	22.3
15	64QAM	1	74	22.02	22.06	22.10	
15	64QAM	36	0	20.97	20.90	20.89	
15	64QAM	36	20	20.93	20.89	20.87	20.3
15	64QAM	36	39	20.93	20.86	20.86	
15	64QAM	75	0	20.92	20.87	20.85	
15	256QAM	1	0	18.95	19.08	19.05	20.3
15	256QAM	1	37	18.63	18.85	18.74	
15	256QAM	1	74	18.63	18.76	18.81	
15	256QAM	36	0	18.84	18.85	18.83	20.3
15	256QAM	36	20	18.82	18.77	18.78	
15	256QAM	36	39	18.66	18.71	18.72	



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15	256QAM	75	0	18.71	18.70	18.80	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.87	23.87	23.87	25.3
10	QPSK	1	25	23.63	23.64	23.61	
10	QPSK	1	49	23.71	23.71	23.73	
10	QPSK	25	0	22.86	22.91	22.84	24.3
10	QPSK	25	12	22.85	22.92	22.87	
10	QPSK	25	25	22.85	22.88	22.88	
10	QPSK	50	0	22.88	22.90	22.89	
10	16QAM	1	0	23.03	23.07	23.07	24.3
10	16QAM	1	25	22.94	22.99	22.95	
10	16QAM	1	49	23.01	22.96	22.94	
10	16QAM	25	0	21.90	21.91	21.88	23.3
10	16QAM	25	12	21.92	21.92	21.88	
10	16QAM	25	25	21.89	21.90	21.88	
10	16QAM	50	0	21.89	21.86	21.86	
10	64QAM	1	0	22.04	21.96	21.96	23.3
10	64QAM	1	25	21.91	21.80	21.74	
10	64QAM	1	49	21.93	21.88	21.84	
10	64QAM	25	0	20.91	20.90	20.89	22.3
10	64QAM	25	12	20.91	20.88	20.84	
10	64QAM	25	25	20.88	20.87	20.86	
10	64QAM	50	0	20.88	20.87	20.91	
10	256QAM	1	0	18.93	19.08	19.04	20.3
10	256QAM	1	25	18.53	18.89	18.80	
10	256QAM	1	49	18.56	18.71	18.84	
10	256QAM	25	0	18.86	18.82	18.84	20.3
10	256QAM	25	12	18.76	18.76	18.77	
10	256QAM	25	25	18.66	18.66	18.79	
10	256QAM	50	0	18.72	18.71	18.77	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.76	23.80	23.78	25.3
5	QPSK	1	12	23.68	23.76	23.75	
5	QPSK	1	24	23.76	23.78	23.79	
5	QPSK	12	0	22.85	22.86	22.85	24.3
5	QPSK	12	7	22.88	22.86	22.88	
5	QPSK	12	13	22.87	22.86	22.88	
5	QPSK	25	0	22.88	22.89	22.89	
5	16QAM	1	0	23.16	23.11	23.10	24.3
5	16QAM	1	12	23.09	23.08	23.03	
5	16QAM	1	24	23.04	23.07	23.06	
5	16QAM	12	0	21.88	21.87	21.84	23.3
5	16QAM	12	7	21.91	21.88	21.89	
5	16QAM	12	13	21.89	21.87	21.89	
5	16QAM	25	0	21.91	21.89	21.89	
5	64QAM	1	0	22.10	22.00	22.03	23.3
5	64QAM	1	12	21.99	21.99	21.89	
5	64QAM	1	24	21.93	21.91	21.98	
5	64QAM	12	0	20.96	20.90	20.92	22.3
5	64QAM	12	7	20.94	20.95	20.94	
5	64QAM	12	13	20.93	20.92	20.93	
5	64QAM	25	0	20.90	20.89	20.89	
5	256QAM	1	0	18.92	19.07	18.98	20.3
5	256QAM	1	12	18.56	18.93	18.74	
5	256QAM	1	24	18.59	18.73	18.84	
5	256QAM	12	0	18.86	18.84	18.80	20.3
5	256QAM	12	7	18.72	18.80	18.71	
5	256QAM	12	13	18.57	18.70	18.78	
5	256QAM	25	0	18.67	18.71	18.80	