



<LTE Band 30_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			18.6
Frequency (MHz)				2310			
10	QPSK	1	0		16.91		18.6
10	QPSK	1	25		16.76		
10	QPSK	1	49		16.80		
10	QPSK	25	0		16.87		18.6
10	QPSK	25	12		16.86		
10	QPSK	25	25		16.84		
10	QPSK	50	0		16.86		18.6
10	16QAM	1	0		16.78		
10	16QAM	1	25		16.86		
10	16QAM	1	49		16.70		18.6
10	16QAM	25	0		16.90		
10	16QAM	25	12		16.84		
10	16QAM	25	25		16.85		18.6
10	16QAM	50	0		16.85		
10	64QAM	1	0		16.82		
10	64QAM	1	25		16.74		18.6
10	64QAM	1	49		16.76		
10	64QAM	25	0		16.80		
10	64QAM	25	12		16.88		18.6
10	64QAM	25	25		16.88		
10	64QAM	50	0		16.90		
10	256QAM	1	0		16.71		18.5
10	256QAM	1	25		16.75		
10	256QAM	1	49		16.72		
10	256QAM	25	0		16.74		18.5
10	256QAM	25	12		16.71		
10	256QAM	25	25		16.70		
10	256QAM	50	0		16.68		
Channel				27685	27710	27735	18.6
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	16.73	16.83	16.89	18.6
5	QPSK	1	12	16.66	16.73	16.78	
5	QPSK	1	24	16.71	16.78	16.68	
5	QPSK	12	0	16.76	16.75	16.85	18.6
5	QPSK	12	7	16.67	16.83	16.83	
5	QPSK	12	13	16.77	16.64	16.72	
5	QPSK	25	0	16.69	16.69	16.72	18.6
5	16QAM	1	0	16.65	16.65	16.62	
5	16QAM	1	12	16.82	16.83	16.72	
5	16QAM	1	24	16.73	16.60	16.70	18.6
5	16QAM	12	0	16.77	16.75	16.89	
5	16QAM	12	7	16.74	16.76	16.68	
5	16QAM	12	13	16.68	16.81	16.78	18.6
5	16QAM	25	0	16.79	16.75	16.83	
5	64QAM	1	0	16.75	16.77	16.69	
5	64QAM	1	12	16.70	16.61	16.73	18.6
5	64QAM	1	24	16.64	16.64	16.75	
5	64QAM	12	0	16.60	16.78	16.77	
5	64QAM	12	7	16.76	16.69	16.85	18.6
5	64QAM	12	13	16.83	16.87	16.77	
5	64QAM	25	0	16.80	16.89	16.84	
5	256QAM	1	0	16.65	16.52	16.59	18.5
5	256QAM	1	12	16.66	16.55	16.58	
5	256QAM	1	24	16.61	16.60	16.59	
5	256QAM	12	0	16.56	16.55	16.70	18.5
5	256QAM	12	7	16.56	16.53	16.53	
5	256QAM	12	13	16.61	16.57	16.66	
5	256QAM	25	0	16.65	16.62	16.68	



<LTE Band 30_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.58		23.5
10	QPSK	1	25		22.46		
10	QPSK	1	49		22.50		
10	QPSK	25	0		21.63		22.5
10	QPSK	25	12		21.60		
10	QPSK	25	25		21.57		
10	QPSK	50	0		21.59		22.5
10	16QAM	1	0		21.78		
10	16QAM	1	25		21.77		
10	16QAM	1	49		21.75		21.5
10	16QAM	25	0		20.59		
10	16QAM	25	12		20.59		
10	16QAM	25	25		20.57		21.5
10	16QAM	50	0		20.57		
10	64QAM	1	0		20.64		
10	64QAM	1	25		20.52		21.5
10	64QAM	1	49		20.59		
10	64QAM	25	0		19.56		
10	64QAM	25	12		19.58		20.5
10	64QAM	25	25		19.55		
10	64QAM	50	0		19.57		
10	256QAM	1	0		17.93		18.5
10	256QAM	1	25		17.76		
10	256QAM	1	49		17.86		
10	256QAM	25	0		17.85		18.5
10	256QAM	25	12		17.83		
10	256QAM	25	25		17.83		
10	256QAM	50	0		17.80		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.39	22.53	22.46	23.5
5	QPSK	1	12	22.36	22.42	22.36	
5	QPSK	1	24	22.34	22.38	22.50	
5	QPSK	12	0	21.51	21.46	21.43	22.5
5	QPSK	12	7	21.58	21.43	21.45	
5	QPSK	12	13	21.43	21.39	21.50	
5	QPSK	25	0	21.48	21.43	21.48	22.5
5	16QAM	1	0	21.77	21.61	21.77	
5	16QAM	1	12	21.71	21.76	21.61	
5	16QAM	1	24	21.63	21.56	21.66	21.5
5	16QAM	12	0	20.42	20.42	20.46	
5	16QAM	12	7	20.53	20.59	20.52	
5	16QAM	12	13	20.39	20.40	20.56	21.5
5	16QAM	25	0	20.37	20.49	20.43	
5	64QAM	1	0	20.47	20.59	20.57	
5	64QAM	1	12	20.42	20.44	20.50	21.5
5	64QAM	1	24	20.56	20.42	20.51	
5	64QAM	12	0	19.53	19.47	19.37	
5	64QAM	12	7	19.44	19.45	19.46	20.5
5	64QAM	12	13	19.41	19.44	19.49	
5	64QAM	25	0	19.43	19.38	19.50	
5	256QAM	1	0	17.87	17.86	17.75	18.5
5	256QAM	1	12	17.71	17.58	17.58	
5	256QAM	1	24	17.82	17.79	17.86	
5	256QAM	12	0	17.84	17.74	17.80	18.5
5	256QAM	12	7	17.67	17.82	17.73	
5	256QAM	12	13	17.83	17.74	17.76	
5	256QAM	25	0	17.74	17.79	17.80	



<LTE Band 30_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			17.8
Frequency (MHz)				2310			
10	QPSK	1	0		16.91		17.8
10	QPSK	1	25		16.76		
10	QPSK	1	49		16.80		
10	QPSK	25	0		16.87		17.8
10	QPSK	25	12		16.86		
10	QPSK	25	25		16.84		
10	QPSK	50	0		16.86		17.8
10	16QAM	1	0		16.78		
10	16QAM	1	25		16.86		
10	16QAM	1	49		16.70		17.8
10	16QAM	25	0		16.90		
10	16QAM	25	12		16.84		
10	16QAM	25	25		16.85		17.8
10	16QAM	50	0		16.85		
10	64QAM	1	0		16.82		
10	64QAM	1	25		16.74		17.8
10	64QAM	1	49		16.76		
10	64QAM	25	0		16.80		
10	64QAM	25	12		16.88		17.8
10	64QAM	25	25		16.88		
10	64QAM	50	0		16.90		
10	256QAM	1	0		16.71		17.8
10	256QAM	1	25		16.75		
10	256QAM	1	49		16.72		
10	256QAM	25	0		16.74		17.8
10	256QAM	25	12		16.71		
10	256QAM	25	25		16.70		
10	256QAM	50	0		16.68		
Channel				27685	27710	27735	17.8
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	16.73	16.83	16.89	17.8
5	QPSK	1	12	16.66	16.73	16.78	
5	QPSK	1	24	16.71	16.78	16.68	
5	QPSK	12	0	16.76	16.75	16.85	17.8
5	QPSK	12	7	16.67	16.83	16.83	
5	QPSK	12	13	16.77	16.64	16.72	
5	QPSK	25	0	16.69	16.69	16.72	17.8
5	16QAM	1	0	16.65	16.65	16.62	
5	16QAM	1	12	16.82	16.83	16.72	
5	16QAM	1	24	16.73	16.60	16.70	17.8
5	16QAM	12	0	16.77	16.75	16.89	
5	16QAM	12	7	16.74	16.76	16.68	
5	16QAM	12	13	16.68	16.81	16.78	17.8
5	16QAM	25	0	16.79	16.75	16.83	
5	64QAM	1	0	16.75	16.77	16.69	
5	64QAM	1	12	16.70	16.61	16.73	17.8
5	64QAM	1	24	16.64	16.64	16.75	
5	64QAM	12	0	16.60	16.78	16.77	
5	64QAM	12	7	16.76	16.69	16.85	17.8
5	64QAM	12	13	16.83	16.87	16.77	
5	64QAM	25	0	16.80	16.89	16.84	
5	256QAM	1	0	16.65	16.52	16.59	17.8
5	256QAM	1	12	16.66	16.55	16.58	
5	256QAM	1	24	16.61	16.60	16.59	
5	256QAM	12	0	16.56	16.55	16.70	17.8
5	256QAM	12	7	16.56	16.53	16.53	
5	256QAM	12	13	16.61	16.57	16.66	
5	256QAM	25	0	16.65	16.62	16.68	



<LTE Band 30_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.58		23.5
10	QPSK	1	25		22.46		
10	QPSK	1	49		22.50		
10	QPSK	25	0		21.63		22.5
10	QPSK	25	12		21.60		
10	QPSK	25	25		21.57		
10	QPSK	50	0		21.59		22.5
10	16QAM	1	0		21.78		
10	16QAM	1	25		21.77		
10	16QAM	1	49		21.75		21.5
10	16QAM	25	0		20.59		
10	16QAM	25	12		20.59		
10	16QAM	25	25		20.57		21.5
10	16QAM	50	0		20.57		
10	64QAM	1	0		20.64		
10	64QAM	1	25		20.52		21.5
10	64QAM	1	49		20.59		
10	64QAM	25	0		19.56		
10	64QAM	25	12		19.58		20.5
10	64QAM	25	25		19.55		
10	64QAM	50	0		19.57		
10	256QAM	1	0		17.93		18.5
10	256QAM	1	25		17.76		
10	256QAM	1	49		17.86		
10	256QAM	25	0		17.85		18.5
10	256QAM	25	12		17.83		
10	256QAM	25	25		17.83		
10	256QAM	50	0		17.80		
Channel				27685	27710	27735	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.39	22.53	22.46	23.5
5	QPSK	1	12	22.36	22.42	22.36	
5	QPSK	1	24	22.34	22.38	22.50	
5	QPSK	12	0	21.51	21.46	21.43	22.5
5	QPSK	12	7	21.58	21.43	21.45	
5	QPSK	12	13	21.43	21.39	21.50	
5	QPSK	25	0	21.48	21.43	21.48	22.5
5	16QAM	1	0	21.77	21.61	21.77	
5	16QAM	1	12	21.71	21.76	21.61	
5	16QAM	1	24	21.63	21.56	21.66	21.5
5	16QAM	12	0	20.42	20.42	20.46	
5	16QAM	12	7	20.53	20.59	20.52	
5	16QAM	12	13	20.39	20.40	20.56	21.5
5	16QAM	25	0	20.37	20.49	20.43	
5	64QAM	1	0	20.47	20.59	20.57	
5	64QAM	1	12	20.42	20.44	20.50	21.5
5	64QAM	1	24	20.56	20.42	20.51	
5	64QAM	12	0	19.53	19.47	19.37	
5	64QAM	12	7	19.44	19.45	19.46	20.5
5	64QAM	12	13	19.41	19.44	19.49	
5	64QAM	25	0	19.43	19.38	19.50	
5	256QAM	1	0	17.87	17.86	17.75	18.5
5	256QAM	1	12	17.71	17.58	17.58	
5	256QAM	1	24	17.82	17.79	17.86	
5	256QAM	12	0	17.84	17.74	17.80	18.5
5	256QAM	12	7	17.67	17.82	17.73	
5	256QAM	12	13	17.83	17.74	17.76	
5	256QAM	25	0	17.74	17.79	17.80	



<LTE Band 66_Ant 2_Index 7/8>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
132072	132322	132572		
1720	1745	1770		
20	24.66	24.70	24.71	25.6
20	24.55	24.54	24.55	
20	24.51	24.50	24.47	
20	23.70	23.69	23.72	24.6
20	23.65	23.66	23.63	
20	23.59	23.60	23.58	
20	23.63	23.61	23.65	24.6
20	24.00	24.04	24.05	
20	23.84	23.87	23.83	
20	23.92	23.84	23.80	23.6
20	22.70	22.70	22.66	
20	22.65	22.64	22.62	
20	22.59	22.60	22.55	23.6
20	22.65	22.65	22.62	
20	22.90	22.87	22.86	
20	22.75	22.72	22.74	23.6
20	22.79	22.80	22.68	
20	21.69	21.69	21.68	
20	21.66	21.68	21.63	22.6
20	21.58	21.60	21.58	
20	21.65	21.67	21.64	
20	20.24	20.16	20.16	20.6
20	20.01	20.07	20.05	
20	20.04	20.06	19.94	
20	19.99	19.99	19.97	20.6
20	19.91	19.93	19.88	
20	19.91	19.93	19.90	
20	19.97	19.95	19.98	
132047	132322	132597		
1717.5	1745	1772.5		
15	24.59	24.67	24.62	25.6
15	24.46	24.48	24.52	
15	24.49	24.45	24.42	
15	23.64	23.63	23.65	24.6
15	23.55	23.65	23.55	
15	23.51	23.52	23.51	
15	23.62	23.57	23.64	24.6
15	23.94	23.96	24.03	
15	23.79	23.77	23.78	
15	23.90	23.77	23.71	23.6
15	22.69	22.67	22.58	
15	22.63	22.60	22.55	
15	22.58	22.52	22.53	23.6
15	22.56	22.61	22.53	
15	22.89	22.80	22.83	
15	22.74	22.65	22.71	23.6
15	22.77	22.71	22.58	
15	21.66	21.66	21.68	
15	21.63	21.61	21.57	22.6
15	21.58	21.56	21.48	
15	21.62	21.57	21.60	
15	20.24	20.15	20.15	20.6
15	19.98	20.00	19.97	
15	19.95	19.99	19.87	
15	19.93	19.95	19.89	20.6
15	19.87	19.83	19.82	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	36	39	19.86	19.88	19.85	
15	256QAM	75	0	19.94	19.89	19.88	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.54	24.67	24.61	25.6
10	QPSK	1	25	24.46	24.54	24.53	
10	QPSK	1	49	24.50	24.47	24.46	
10	QPSK	25	0	23.61	23.61	23.67	24.6
10	QPSK	25	12	23.62	23.62	23.56	
10	QPSK	25	25	23.59	23.53	23.48	
10	QPSK	50	0	23.63	23.55	23.60	
10	16QAM	1	0	23.91	24.00	24.03	24.6
10	16QAM	1	25	23.74	23.87	23.81	
10	16QAM	1	49	23.88	23.78	23.73	
10	16QAM	25	0	22.63	22.70	22.61	23.6
10	16QAM	25	12	22.63	22.54	22.61	
10	16QAM	25	25	22.50	22.50	22.54	
10	16QAM	50	0	22.62	22.58	22.56	
10	64QAM	1	0	22.89	22.85	22.83	23.6
10	64QAM	1	25	22.73	22.67	22.71	
10	64QAM	1	49	22.70	22.72	22.59	
10	64QAM	25	0	21.68	21.59	21.67	22.6
10	64QAM	25	12	21.58	21.58	21.60	
10	64QAM	25	25	21.48	21.58	21.56	
10	64QAM	50	0	21.65	21.66	21.61	
10	256QAM	1	0	20.17	20.15	20.10	20.6
10	256QAM	1	25	19.96	20.07	20.02	
10	256QAM	1	49	19.94	19.99	19.86	
10	256QAM	25	0	19.90	19.91	19.94	20.6
10	256QAM	25	12	19.88	19.93	19.87	
10	256QAM	25	25	19.88	19.89	19.85	
10	256QAM	50	0	19.94	19.88	19.97	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.59	24.62	24.65	25.6
5	QPSK	1	12	24.50	24.45	24.50	
5	QPSK	1	24	24.50	24.41	24.47	
5	QPSK	12	0	23.66	23.66	23.64	24.6
5	QPSK	12	7	23.60	23.65	23.61	
5	QPSK	12	13	23.54	23.60	23.50	
5	QPSK	25	0	23.60	23.51	23.55	
5	16QAM	1	0	23.97	23.95	23.99	24.6
5	16QAM	1	12	23.74	23.78	23.73	
5	16QAM	1	24	23.90	23.76	23.77	
5	16QAM	12	0	22.61	22.63	22.61	23.6
5	16QAM	12	7	22.64	22.59	22.57	
5	16QAM	12	13	22.56	22.59	22.45	
5	16QAM	25	0	22.57	22.61	22.58	
5	64QAM	1	0	22.86	22.83	22.79	23.6
5	64QAM	1	12	22.75	22.62	22.68	
5	64QAM	1	24	22.72	22.77	22.63	
5	64QAM	12	0	21.59	21.63	21.60	22.6
5	64QAM	12	7	21.64	21.59	21.61	
5	64QAM	12	13	21.58	21.54	21.53	
5	64QAM	25	0	21.58	21.57	21.62	
5	256QAM	1	0	20.16	20.16	20.13	20.6
5	256QAM	1	12	19.95	20.03	19.95	
5	256QAM	1	24	20.01	19.99	19.91	
5	256QAM	12	0	19.89	19.99	19.94	20.6
5	256QAM	12	7	19.87	19.84	19.79	
5	256QAM	12	13	19.81	19.85	19.81	
5	256QAM	25	0	19.93	19.92	19.90	
Channel				131987	132322	132657	Tune-up limit



FCC SAR TEST REPORT

Report No. : FA3D2001D

Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	24.58	24.60	24.69	25.6
3	QPSK	1	8	24.46	24.52	24.54	
3	QPSK	1	14	24.43	24.50	24.39	
3	QPSK	8	0	23.65	23.63	23.65	24.6
3	QPSK	8	4	23.65	23.59	23.53	
3	QPSK	8	7	23.54	23.55	23.51	
3	QPSK	15	0	23.61	23.61	23.65	24.6
3	16QAM	1	0	23.95	23.94	23.99	
3	16QAM	1	8	23.76	23.82	23.79	
3	16QAM	1	14	23.84	23.78	23.80	23.6
3	16QAM	8	0	22.60	22.69	22.57	
3	16QAM	8	4	22.60	22.63	22.58	
3	16QAM	8	7	22.51	22.60	22.54	23.6
3	16QAM	15	0	22.62	22.65	22.55	
3	64QAM	1	0	22.80	22.86	22.77	
3	64QAM	1	8	22.67	22.66	22.64	23.6
3	64QAM	1	14	22.70	22.80	22.58	
3	64QAM	8	0	21.62	21.67	21.64	
3	64QAM	8	4	21.59	21.66	21.58	22.6
3	64QAM	8	7	21.57	21.60	21.49	
3	64QAM	15	0	21.62	21.58	21.60	
3	256QAM	1	0	20.16	20.10	20.12	20.6
3	256QAM	1	8	19.95	19.98	20.00	
3	256QAM	1	14	19.99	20.04	19.93	
3	256QAM	8	0	19.90	19.89	19.96	20.6
3	256QAM	8	4	19.91	19.86	19.85	
3	256QAM	8	7	19.85	19.87	19.84	
3	256QAM	15	0	19.92	19.89	19.98	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.61	24.59	24.62	25.6
1.4	QPSK	1	3	24.48	24.53	24.46	
1.4	QPSK	1	5	24.41	24.43	24.42	
1.4	QPSK	3	0	24.56	24.51	24.55	
1.4	QPSK	3	1	24.55	24.49	24.52	
1.4	QPSK	3	3	24.52	24.55	24.57	24.6
1.4	QPSK	6	0	23.56	23.57	23.63	
1.4	16QAM	1	0	23.96	23.98	24.03	
1.4	16QAM	1	3	23.84	23.77	23.79	24.6
1.4	16QAM	1	5	23.82	23.76	23.72	
1.4	16QAM	3	0	23.92	24.04	23.98	
1.4	16QAM	3	1	23.74	23.86	23.73	
1.4	16QAM	3	3	23.91	23.81	23.71	
1.4	16QAM	6	0	22.58	22.62	22.54	23.6
1.4	64QAM	1	0	22.89	22.77	22.77	23.6
1.4	64QAM	1	3	22.70	22.68	22.67	
1.4	64QAM	1	5	22.75	22.77	22.66	
1.4	64QAM	3	0	22.86	22.85	22.81	
1.4	64QAM	3	1	22.71	22.68	22.69	
1.4	64QAM	3	3	22.78	22.75	22.66	22.6
1.4	64QAM	6	0	21.59	21.58	21.55	
1.4	256QAM	1	0	20.21	20.09	20.09	
1.4	256QAM	1	3	19.99	19.98	20.02	20.6
1.4	256QAM	1	5	20.00	20.04	19.88	
1.4	256QAM	3	0	19.97	19.93	19.89	
1.4	256QAM	3	1	19.84	19.88	19.81	
1.4	256QAM	3	3	19.86	19.87	19.87	
1.4	256QAM	6	0	19.94	19.90	19.96	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	17.57	17.51	17.44	17.7
20	QPSK	1	49	17.44	17.34	17.24	
20	QPSK	1	99	17.56	17.35	17.26	
20	QPSK	50	0	17.53	17.35	17.37	17.7
20	QPSK	50	24	17.50	17.31	17.34	
20	QPSK	50	50	17.46	17.32	17.28	
20	QPSK	100	0	17.52	17.45	17.43	
20	16QAM	1	0	17.51	17.37	17.26	17.7
20	16QAM	1	49	17.39	17.41	17.32	
20	16QAM	1	99	17.41	17.43	17.40	
20	16QAM	50	0	17.56	17.42	17.30	17.7
20	16QAM	50	24	17.43	17.44	17.41	
20	16QAM	50	50	17.52	17.48	17.29	
20	16QAM	100	0	17.40	17.32	17.26	
20	64QAM	1	0	17.43	17.33	17.25	17.7
20	64QAM	1	49	17.39	17.35	17.35	
20	64QAM	1	99	17.39	17.46	17.29	
20	64QAM	50	0	17.50	17.43	17.27	17.7
20	64QAM	50	24	17.43	17.51	17.41	
20	64QAM	50	50	17.56	17.37	17.42	
20	64QAM	100	0	17.54	17.38	17.25	
20	256QAM	1	0	17.51	17.32	17.36	17.7
20	256QAM	1	49	17.38	17.40	17.39	
20	256QAM	1	99	17.48	17.48	17.43	
20	256QAM	50	0	17.45	17.35	17.41	17.7
20	256QAM	50	24	17.38	17.42	17.35	
20	256QAM	50	50	17.41	17.45	17.42	
20	256QAM	100	0	17.47	17.50	17.24	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.50	17.42	17.24	17.7
15	QPSK	1	37	17.30	17.26	17.15	
15	QPSK	1	74	17.40	17.21	17.12	
15	QPSK	36	0	17.40	17.29	17.32	17.7
15	QPSK	36	20	17.43	17.27	17.19	
15	QPSK	36	39	17.29	17.28	17.24	
15	QPSK	75	0	17.35	17.40	17.35	
15	16QAM	1	0	17.44	17.37	17.22	17.7
15	16QAM	1	37	17.22	17.33	17.18	
15	16QAM	1	74	17.30	17.29	17.21	
15	16QAM	36	0	17.41	17.22	17.30	17.7
15	16QAM	36	20	17.31	17.25	17.24	
15	16QAM	36	39	17.45	17.44	17.27	
15	16QAM	75	0	17.38	17.15	17.17	
15	64QAM	1	0	17.42	17.14	17.24	17.7
15	64QAM	1	37	17.32	17.34	17.33	
15	64QAM	1	74	17.27	17.31	17.28	
15	64QAM	36	0	17.42	17.29	17.17	17.7
15	64QAM	36	20	17.38	17.42	17.30	
15	64QAM	36	39	17.53	17.22	17.38	
15	64QAM	75	0	17.43	17.36	17.17	
15	256QAM	1	0	17.44	17.20	17.30	17.7
15	256QAM	1	37	17.33	17.23	17.36	
15	256QAM	1	74	17.43	17.34	17.33	
15	256QAM	36	0	17.36	17.23	17.39	17.7
15	256QAM	36	20	17.18	17.42	17.18	



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15	256QAM	36	39	17.21	17.36	17.29	
15	256QAM	75	0	17.33	17.47	17.10	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.51	17.37	17.44	17.7
10	QPSK	1	25	17.44	17.14	17.09	
10	QPSK	1	49	17.43	17.15	17.06	
10	QPSK	25	0	17.44	17.27	17.24	17.7
10	QPSK	25	12	17.44	17.13	17.34	
10	QPSK	25	25	17.44	17.20	17.23	
10	QPSK	50	0	17.45	17.44	17.34	
10	16QAM	1	0	17.48	17.26	17.19	
10	16QAM	1	25	17.27	17.29	17.26	17.7
10	16QAM	1	49	17.38	17.35	17.21	
10	16QAM	25	0	17.43	17.37	17.24	17.7
10	16QAM	25	12	17.42	17.28	17.27	
10	16QAM	25	25	17.40	17.46	17.16	
10	16QAM	50	0	17.26	17.22	17.14	
10	64QAM	1	0	17.33	17.17	17.05	
10	64QAM	1	25	17.30	17.20	17.24	17.7
10	64QAM	1	49	17.24	17.38	17.29	
10	64QAM	25	0	17.34	17.26	17.25	
10	64QAM	25	12	17.40	17.40	17.34	17.7
10	64QAM	25	25	17.36	17.23	17.27	
10	64QAM	50	0	17.35	17.25	17.08	
10	256QAM	1	0	17.37	17.24	17.33	
10	256QAM	1	25	17.36	17.37	17.25	
10	256QAM	1	49	17.34	17.45	17.37	17.7
10	256QAM	25	0	17.45	17.35	17.24	
10	256QAM	25	12	17.32	17.23	17.19	
10	256QAM	25	25	17.25	17.29	17.40	
10	256QAM	50	0	17.47	17.42	17.12	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	17.48	17.37	17.42	17.7
5	QPSK	1	12	17.25	17.27	17.07	
5	QPSK	1	24	17.56	17.33	17.18	
5	QPSK	12	0	17.42	17.17	17.25	17.7
5	QPSK	12	7	17.46	17.20	17.15	
5	QPSK	12	13	17.31	17.24	17.28	
5	QPSK	25	0	17.34	17.34	17.29	
5	16QAM	1	0	17.43	17.34	17.21	
5	16QAM	1	12	17.32	17.40	17.16	17.7
5	16QAM	1	24	17.23	17.32	17.20	
5	16QAM	12	0	17.37	17.37	17.21	
5	16QAM	12	7	17.36	17.40	17.22	17.7
5	16QAM	12	13	17.49	17.44	17.28	
5	16QAM	25	0	17.36	17.27	17.08	
5	64QAM	1	0	17.31	17.28	17.17	
5	64QAM	1	12	17.35	17.22	17.29	
5	64QAM	1	24	17.33	17.33	17.26	17.7
5	64QAM	12	0	17.33	17.33	17.22	
5	64QAM	12	7	17.34	17.34	17.28	
5	64QAM	12	13	17.53	17.32	17.29	
5	64QAM	25	0	17.45	17.28	17.08	
5	256QAM	1	0	17.34	17.32	17.24	17.7
5	256QAM	1	12	17.38	17.26	17.27	
5	256QAM	1	24	17.37	17.47	17.42	
5	256QAM	12	0	17.41	17.32	17.25	
5	256QAM	12	7	17.27	17.28	17.24	
5	256QAM	12	13	17.24	17.32	17.36	17.7
5	256QAM	25	0	17.30	17.46	17.08	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)	
3	QPSK	1	0	17.38	17.43	17.40	17.7	
3	QPSK	1	8	17.33	17.22	17.06		
3	QPSK	1	14	17.39	17.33	17.18		
3	QPSK	8	0	17.50	17.28	17.35	17.7	
3	QPSK	8	4	17.31	17.28	17.32		
3	QPSK	8	7	17.32	17.21	17.23		
3	QPSK	15	0	17.44	17.31	17.40	17.7	
3	16QAM	1	0	17.43	17.22	17.25		
3	16QAM	1	8	17.34	17.36	17.22		
3	16QAM	1	14	17.26	17.33	17.31	17.7	
3	16QAM	8	0	17.47	17.30	17.12		
3	16QAM	8	4	17.23	17.38	17.40		
3	16QAM	8	7	17.37	17.29	17.20	17.7	
3	16QAM	15	0	17.27	17.22	17.19		
3	64QAM	1	0	17.34	17.25	17.21		
3	64QAM	1	8	17.28	17.17	17.33	17.7	
3	64QAM	1	14	17.25	17.27	17.20		
3	64QAM	8	0	17.32	17.33	17.12		
3	64QAM	8	4	17.37	17.32	17.24	17.7	
3	64QAM	8	7	17.46	17.29	17.31		
3	64QAM	15	0	17.38	17.34	17.12		
3	256QAM	1	0	17.32	17.31	17.16	17.7	
3	256QAM	1	8	17.19	17.33	17.21		
3	256QAM	1	14	17.41	17.36	17.40		
3	256QAM	8	0	17.27	17.32	17.30	17.7	
3	256QAM	8	4	17.20	17.22	17.34		
3	256QAM	8	7	17.26	17.32	17.26		
3	256QAM	15	0	17.30	17.39	17.12	17.7	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	17.51	17.37	17.34	17.7	
1.4	QPSK	1	3	17.40	17.16	17.20		
1.4	QPSK	1	5	17.50	17.35	17.18		
1.4	QPSK	3	0	17.34	17.35	17.29	17.7	
1.4	QPSK	3	1	17.46	17.25	17.21		
1.4	QPSK	3	3	17.38	17.23	17.28		
1.4	QPSK	6	0	17.38	17.41	17.42	17.7	
1.4	16QAM	1	0	17.36	17.19	17.23		
1.4	16QAM	1	3	17.19	17.39	17.19		
1.4	16QAM	1	5	17.32	17.27	17.22	17.7	
1.4	16QAM	3	0	17.46	17.41	17.14		
1.4	16QAM	3	1	17.23	17.28	17.37		
1.4	16QAM	3	3	17.34	17.39	17.10	17.7	
1.4	16QAM	6	0	17.28	17.27	17.23		
1.4	64QAM	1	0	17.31	17.19	17.14		
1.4	64QAM	1	3	17.20	17.25	17.31	17.7	
1.4	64QAM	1	5	17.20	17.34	17.20		
1.4	64QAM	3	0	17.42	17.42	17.19		
1.4	64QAM	3	1	17.39	17.40	17.25	17.7	
1.4	64QAM	3	3	17.53	17.34	17.29		
1.4	64QAM	6	0	17.52	17.31	17.20		
1.4	256QAM	1	0	17.46	17.27	17.26	17.7	
1.4	256QAM	1	3	17.22	17.37	17.25		
1.4	256QAM	1	5	17.31	17.30	17.39		
1.4	256QAM	3	0	17.44	17.29	17.40	17.7	
1.4	256QAM	3	1	17.31	17.37	17.32		
1.4	256QAM	3	3	17.29	17.28	17.36		
1.4	256QAM	6	0	17.42	17.31	17.04	17.7	



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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	24.53	24.35	24.35	25.6
20	QPSK	1	49	24.27	24.22	24.17	
20	QPSK	1	99	24.22	24.12	24.11	
20	QPSK	50	0	23.36	23.29	23.30	24.6
20	QPSK	50	24	23.33	23.23	23.24	
20	QPSK	50	50	23.23	23.16	23.20	
20	QPSK	100	0	23.31	23.21	23.27	24.6
20	16QAM	1	0	23.63	23.54	23.72	
20	16QAM	1	49	23.36	23.50	23.33	
20	16QAM	1	99	23.33	23.52	23.42	23.6
20	16QAM	50	0	22.25	22.28	22.26	
20	16QAM	50	24	22.23	22.25	22.24	
20	16QAM	50	50	22.18	22.19	22.18	23.6
20	16QAM	100	0	22.24	22.24	22.23	
20	64QAM	1	0	22.69	22.54	22.66	
20	64QAM	1	49	22.38	22.46	22.41	23.6
20	64QAM	1	99	22.24	22.51	22.35	
20	64QAM	50	0	21.27	21.32	21.29	
20	64QAM	50	24	21.24	21.24	21.31	22.6
20	64QAM	50	50	21.23	21.21	21.25	
20	64QAM	100	0	21.27	21.21	21.29	
20	256QAM	1	0	20.04	19.93	20.10	20.6
20	256QAM	1	49	19.82	19.89	19.82	
20	256QAM	1	99	19.62	19.94	19.74	
20	256QAM	50	0	19.64	19.72	19.64	20.6
20	256QAM	50	24	19.62	19.59	19.72	
20	256QAM	50	50	19.59	19.61	19.62	
20	256QAM	100	0	19.66	19.61	19.67	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	24.37	24.32	24.30	25.6
15	QPSK	1	37	24.12	24.08	24.06	
15	QPSK	1	74	24.20	23.94	23.94	
15	QPSK	36	0	23.22	23.25	23.14	24.6
15	QPSK	36	20	23.28	23.18	23.06	
15	QPSK	36	39	23.14	23.14	23.17	
15	QPSK	75	0	23.15	23.12	23.22	24.6
15	16QAM	1	0	23.52	23.34	23.65	
15	16QAM	1	37	23.19	23.39	23.18	
15	16QAM	1	74	23.27	23.38	23.35	23.6
15	16QAM	36	0	22.22	22.15	22.26	
15	16QAM	36	20	22.12	22.12	22.09	
15	16QAM	36	39	22.04	22.17	21.99	23.6
15	16QAM	75	0	22.10	22.15	22.21	
15	64QAM	1	0	22.58	22.42	22.66	
15	64QAM	1	37	22.38	22.45	22.38	23.6
15	64QAM	1	74	22.15	22.46	22.25	
15	64QAM	36	0	21.08	21.24	21.11	
15	64QAM	36	20	21.08	21.10	21.13	22.6
15	64QAM	36	39	21.16	21.14	21.23	
15	64QAM	75	0	21.13	21.17	21.12	
15	256QAM	1	0	20.00	19.91	20.06	20.6
15	256QAM	1	37	19.77	19.89	19.77	
15	256QAM	1	74	19.57	19.87	19.72	
15	256QAM	36	0	19.47	19.56	19.47	20.6
15	256QAM	36	20	19.50	19.51	19.54	



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15	256QAM	36	39	19.41	19.45	19.59	
15	256QAM	75	0	19.63	19.58	19.60	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.46	24.31	24.30	25.6
10	QPSK	1	25	24.19	24.10	24.16	
10	QPSK	1	49	24.20	24.12	23.95	
10	QPSK	25	0	23.21	23.26	23.13	24.6
10	QPSK	25	12	23.26	23.04	23.23	
10	QPSK	25	25	23.03	23.14	23.12	
10	QPSK	50	0	23.18	23.13	23.12	
10	16QAM	1	0	23.49	23.54	23.56	24.6
10	16QAM	1	25	23.34	23.40	23.17	
10	16QAM	1	49	23.32	23.50	23.31	
10	16QAM	25	0	22.12	22.09	22.12	23.6
10	16QAM	25	12	22.15	22.25	22.19	
10	16QAM	25	25	21.98	22.17	22.02	
10	16QAM	50	0	22.18	22.04	22.19	
10	64QAM	1	0	22.61	22.50	22.53	23.6
10	64QAM	1	25	22.34	22.37	22.32	
10	64QAM	1	49	22.22	22.38	22.34	
10	64QAM	25	0	21.27	21.14	21.10	22.6
10	64QAM	25	12	21.06	21.07	21.23	
10	64QAM	25	25	21.21	21.10	21.18	
10	64QAM	50	0	21.14	21.08	21.19	
10	256QAM	1	0	19.90	19.75	20.07	20.6
10	256QAM	1	25	19.82	19.82	19.77	
10	256QAM	1	49	19.44	19.78	19.57	
10	256QAM	25	0	19.56	19.63	19.61	20.6
10	256QAM	25	12	19.52	19.55	19.71	
10	256QAM	25	25	19.42	19.49	19.52	
10	256QAM	50	0	19.48	19.46	19.61	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.51	24.27	24.34	25.6
5	QPSK	1	12	24.22	24.11	24.02	
5	QPSK	1	24	24.18	23.99	24.06	
5	QPSK	12	0	23.21	23.18	23.23	24.6
5	QPSK	12	7	23.20	23.04	23.05	
5	QPSK	12	13	23.11	23.08	23.08	
5	QPSK	25	0	23.20	23.15	23.27	
5	16QAM	1	0	23.58	23.47	23.67	24.6
5	16QAM	1	12	23.28	23.31	23.28	
5	16QAM	1	24	23.33	23.41	23.39	
5	16QAM	12	0	22.08	22.26	22.20	23.6
5	16QAM	12	7	22.20	22.22	22.17	
5	16QAM	12	13	22.09	22.07	22.04	
5	16QAM	25	0	22.22	22.13	22.05	
5	64QAM	1	0	22.64	22.46	22.55	23.6
5	64QAM	1	12	22.28	22.37	22.30	
5	64QAM	1	24	22.18	22.40	22.29	
5	64QAM	12	0	21.26	21.14	21.13	22.6
5	64QAM	12	7	21.21	21.12	21.26	
5	64QAM	12	13	21.14	21.21	21.07	
5	64QAM	25	0	21.25	21.10	21.26	
5	256QAM	1	0	20.00	19.84	19.93	20.6
5	256QAM	1	12	19.78	19.79	19.73	
5	256QAM	1	24	19.54	19.94	19.68	
5	256QAM	12	0	19.63	19.54	19.60	20.6
5	256QAM	12	7	19.50	19.57	19.56	
5	256QAM	12	13	19.46	19.42	19.42	
5	256QAM	25	0	19.50	19.41	19.64	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	24.46	24.23	24.30	25.6
3	QPSK	1	8	24.10	24.06	24.13	
3	QPSK	1	14	24.22	24.00	24.10	
3	QPSK	8	0	23.17	23.14	23.28	24.6
3	QPSK	8	4	23.30	23.22	23.07	
3	QPSK	8	7	23.17	23.03	23.06	
3	QPSK	15	0	23.13	23.13	23.13	
3	16QAM	1	0	23.54	23.49	23.55	24.6
3	16QAM	1	8	23.34	23.33	23.14	
3	16QAM	1	14	23.23	23.36	23.33	
3	16QAM	8	0	22.07	22.09	22.14	23.6
3	16QAM	8	4	22.22	22.08	22.07	
3	16QAM	8	7	22.14	22.14	22.13	
3	16QAM	15	0	22.21	22.13	22.10	
3	64QAM	1	0	22.65	22.38	22.54	23.6
3	64QAM	1	8	22.33	22.46	22.30	
3	64QAM	1	14	22.10	22.45	22.16	
3	64QAM	8	0	21.07	21.19	21.19	22.6
3	64QAM	8	4	21.19	21.11	21.22	
3	64QAM	8	7	21.09	21.08	21.14	
3	64QAM	15	0	21.07	21.01	21.28	
3	256QAM	1	0	20.00	19.79	20.10	20.6
3	256QAM	1	8	19.74	19.77	19.71	
3	256QAM	1	14	19.62	19.79	19.68	
3	256QAM	8	0	19.44	19.63	19.55	20.6
3	256QAM	8	4	19.47	19.57	19.70	
3	256QAM	8	7	19.58	19.55	19.62	
3	256QAM	15	0	19.59	19.41	19.51	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.36	24.25	24.24	25.6
1.4	QPSK	1	3	24.27	24.07	24.01	
1.4	QPSK	1	5	24.08	24.08	23.97	
1.4	QPSK	3	0	24.44	24.22	24.30	
1.4	QPSK	3	1	24.25	24.18	24.12	
1.4	QPSK	3	3	24.15	24.08	23.97	24.6
1.4	QPSK	6	0	23.33	23.28	23.29	
1.4	16QAM	1	0	23.13	23.23	23.04	24.6
1.4	16QAM	1	3	23.23	23.08	23.02	
1.4	16QAM	1	5	23.29	23.11	23.16	
1.4	16QAM	3	0	23.46	23.43	23.62	
1.4	16QAM	3	1	23.16	23.50	23.32	
1.4	16QAM	3	3	23.14	23.39	23.37	23.6
1.4	16QAM	6	0	22.22	22.13	22.19	
1.4	64QAM	1	0	22.16	22.11	22.08	23.6
1.4	64QAM	1	3	22.02	22.08	22.04	
1.4	64QAM	1	5	22.24	22.05	22.20	
1.4	64QAM	3	0	22.59	22.51	22.60	
1.4	64QAM	3	1	22.22	22.27	22.28	
1.4	64QAM	3	3	22.24	22.40	22.28	22.6
1.4	64QAM	6	0	21.16	21.28	21.23	
1.4	256QAM	1	0	19.98	19.93	20.02	20.6
1.4	256QAM	1	3	19.67	19.85	19.71	
1.4	256QAM	1	5	19.58	19.77	19.60	
1.4	256QAM	3	0	19.50	19.62	19.50	
1.4	256QAM	3	1	19.49	19.39	19.68	
1.4	256QAM	3	3	19.45	19.55	19.56	20.6
1.4	256QAM	6	0	19.60	19.61	19.50	



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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	24.12	24.09	24.04	25.6
20	QPSK	1	49	23.92	23.92	23.91	
20	QPSK	1	99	23.90	23.86	23.79	
20	QPSK	50	0	23.06	23.02	23.00	24.6
20	QPSK	50	24	22.99	22.95	22.93	
20	QPSK	50	50	22.93	22.90	22.86	
20	QPSK	100	0	23.03	22.96	22.91	24.6
20	16QAM	1	0	23.41	23.37	23.33	
20	16QAM	1	49	23.26	23.21	23.27	
20	16QAM	1	99	23.24	23.19	23.15	23.6
20	16QAM	50	0	22.06	22.02	21.99	
20	16QAM	50	24	22.00	21.96	21.94	
20	16QAM	50	50	21.94	21.90	21.86	23.6
20	16QAM	100	0	22.01	21.96	21.93	
20	64QAM	1	0	22.39	22.29	22.23	
20	64QAM	1	49	22.20	22.13	22.11	23.6
20	64QAM	1	99	22.20	22.13	22.03	
20	64QAM	50	0	21.07	21.03	20.98	
20	64QAM	50	24	20.99	20.97	20.93	22.6
20	64QAM	50	50	20.95	20.92	20.90	
20	64QAM	100	0	21.01	20.96	20.93	
20	256QAM	1	0	19.81	19.74	19.58	20.6
20	256QAM	1	49	19.61	19.48	19.48	
20	256QAM	1	99	19.59	19.52	19.39	
20	256QAM	50	0	19.46	19.41	19.42	20.6
20	256QAM	50	24	19.39	19.39	19.37	
20	256QAM	50	50	19.36	19.36	19.32	
20	256QAM	100	0	19.38	19.34	19.33	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.99	24.07	24.04	25.6
15	QPSK	1	37	23.89	23.77	23.86	
15	QPSK	1	74	23.80	23.81	23.74	
15	QPSK	36	0	22.96	22.85	23.00	24.6
15	QPSK	36	20	22.87	22.77	22.80	
15	QPSK	36	39	22.75	22.70	22.82	
15	QPSK	75	0	22.97	22.89	22.77	24.6
15	16QAM	1	0	23.36	23.19	23.26	
15	16QAM	1	37	23.22	23.03	23.09	
15	16QAM	1	74	23.10	23.11	22.98	23.6
15	16QAM	36	0	21.95	21.98	21.81	
15	16QAM	36	20	21.93	21.93	21.78	
15	16QAM	36	39	21.93	21.90	21.82	23.6
15	16QAM	75	0	21.99	21.94	21.82	
15	64QAM	1	0	22.22	22.17	22.10	
15	64QAM	1	37	22.08	21.95	22.11	23.6
15	64QAM	1	74	22.08	22.04	21.96	
15	64QAM	36	0	20.93	20.89	20.79	
15	64QAM	36	20	20.84	20.83	20.90	22.6
15	64QAM	36	39	20.90	20.81	20.78	
15	64QAM	75	0	20.82	20.82	20.87	
15	256QAM	1	0	19.66	19.56	19.51	20.6
15	256QAM	1	37	19.55	19.32	19.45	
15	256QAM	1	74	19.43	19.48	19.25	
15	256QAM	36	0	19.44	19.31	19.22	20.6
15	256QAM	36	20	19.36	19.38	19.36	



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15	256QAM	36	39	19.19	19.29	19.22	Tune-up limit (dBm)
15	256QAM	75	0	19.28	19.26	19.14	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.99	24.01	23.89	25.6
10	QPSK	1	25	23.75	23.82	23.77	
10	QPSK	1	49	23.74	23.82	23.63	
10	QPSK	25	0	23.06	23.02	22.96	24.6
10	QPSK	25	12	22.89	22.83	22.84	
10	QPSK	25	25	22.78	22.72	22.85	
10	QPSK	50	0	22.91	22.77	22.91	
10	16QAM	1	0	23.36	23.30	23.15	24.6
10	16QAM	1	25	23.22	23.03	23.10	
10	16QAM	1	49	23.24	23.13	23.05	
10	16QAM	25	0	21.86	21.95	21.97	23.6
10	16QAM	25	12	21.92	21.80	21.80	
10	16QAM	25	25	21.85	21.81	21.76	
10	16QAM	50	0	21.86	21.82	21.88	
10	64QAM	1	0	22.19	22.25	22.06	23.6
10	64QAM	1	25	22.16	22.09	21.92	
10	64QAM	1	49	22.08	21.97	21.92	
10	64QAM	25	0	21.02	20.83	20.90	22.6
10	64QAM	25	12	20.87	20.96	20.82	
10	64QAM	25	25	20.90	20.88	20.78	
10	64QAM	50	0	20.93	20.77	20.87	
10	256QAM	1	0	19.73	19.55	19.38	20.6
10	256QAM	1	25	19.51	19.29	19.35	
10	256QAM	1	49	19.50	19.52	19.20	
10	256QAM	25	0	19.38	19.23	19.31	20.6
10	256QAM	25	12	19.32	19.22	19.18	
10	256QAM	25	25	19.30	19.33	19.18	
10	256QAM	50	0	19.30	19.21	19.16	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.96	23.93	23.85	25.6
5	QPSK	1	12	23.72	23.90	23.71	
5	QPSK	1	24	23.79	23.80	23.67	
5	QPSK	12	0	22.86	22.89	22.97	24.6
5	QPSK	12	7	22.99	22.87	22.84	
5	QPSK	12	13	22.85	22.76	22.76	
5	QPSK	25	0	22.94	22.82	22.71	
5	16QAM	1	0	23.38	23.26	23.18	24.6
5	16QAM	1	12	23.11	23.01	23.15	
5	16QAM	1	24	23.20	23.13	23.00	
5	16QAM	12	0	22.01	22.02	21.85	23.6
5	16QAM	12	7	21.85	21.89	21.80	
5	16QAM	12	13	21.85	21.80	21.75	
5	16QAM	25	0	21.82	21.89	21.89	
5	64QAM	1	0	22.20	22.23	22.18	23.6
5	64QAM	1	12	22.03	22.13	22.11	
5	64QAM	1	24	22.16	22.04	21.92	
5	64QAM	12	0	21.00	20.99	20.89	22.6
5	64QAM	12	7	20.81	20.85	20.92	
5	64QAM	12	13	20.76	20.86	20.78	
5	64QAM	25	0	20.96	20.95	20.82	
5	256QAM	1	0	19.73	19.60	19.58	20.6
5	256QAM	1	12	19.43	19.35	19.28	
5	256QAM	1	24	19.51	19.43	19.32	
5	256QAM	12	0	19.44	19.35	19.34	20.6
5	256QAM	12	7	19.36	19.27	19.21	
5	256QAM	12	13	19.20	19.22	19.30	
5	256QAM	25	0	19.25	19.24	19.19	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)	
3	QPSK	1	0	24.08	24.07	23.97	25.6	
3	QPSK	1	8	23.78	23.91	23.75		
3	QPSK	1	14	23.83	23.77	23.72		
3	QPSK	8	0	22.97	22.91	22.92	24.6	
3	QPSK	8	4	22.82	22.78	22.76		
3	QPSK	8	7	22.87	22.90	22.77		
3	QPSK	15	0	22.90	22.83	22.82	24.6	
3	16QAM	1	0	23.37	23.31	23.20		
3	16QAM	1	8	23.14	23.20	23.20		
3	16QAM	1	14	23.16	23.18	23.06	23.6	
3	16QAM	8	0	21.92	21.86	21.79		
3	16QAM	8	4	21.82	21.78	21.88		
3	16QAM	8	7	21.82	21.76	21.71	23.6	
3	16QAM	15	0	21.83	21.87	21.93		
3	64QAM	1	0	22.23	22.25	22.10		
3	64QAM	1	8	22.09	21.93	22.02	23.6	
3	64QAM	1	14	22.01	21.94	21.84		
3	64QAM	8	0	20.87	20.85	20.89		
3	64QAM	8	4	20.93	20.94	20.76	22.6	
3	64QAM	8	7	20.80	20.83	20.90		
3	64QAM	15	0	20.82	20.80	20.75		
3	256QAM	1	0	19.67	19.61	19.40	20.6	
3	256QAM	1	8	19.49	19.28	19.38		
3	256QAM	1	14	19.43	19.45	19.24		
3	256QAM	8	0	19.33	19.26	19.28	20.6	
3	256QAM	8	4	19.38	19.34	19.31		
3	256QAM	8	7	19.28	19.25	19.19		
3	256QAM	15	0	19.31	19.29	19.24	20.6	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	23.93	23.92	23.86	25.6	
1.4	QPSK	1	3	23.86	23.72	23.74		
1.4	QPSK	1	5	23.78	23.76	23.71		
1.4	QPSK	3	0	24.11	23.97	24.01	24.6	
1.4	QPSK	3	1	23.81	23.86	23.74		
1.4	QPSK	3	3	23.70	23.73	23.61		
1.4	QPSK	6	0	22.91	22.90	22.96	24.6	
1.4	16QAM	1	0	22.80	22.92	22.83		
1.4	16QAM	1	3	22.88	22.80	22.80		
1.4	16QAM	1	5	22.89	22.87	22.74	24.6	
1.4	16QAM	3	0	23.41	23.18	23.25		
1.4	16QAM	3	1	23.23	23.19	23.12		
1.4	16QAM	3	3	23.20	23.09	23.06	23.6	
1.4	16QAM	6	0	22.04	21.96	21.81		
1.4	64QAM	1	0	21.83	21.80	21.90		
1.4	64QAM	1	3	21.81	21.70	21.75	23.6	
1.4	64QAM	1	5	21.86	21.93	21.91		
1.4	64QAM	3	0	22.31	22.26	22.17		
1.4	64QAM	3	1	22.07	22.04	21.97	22.6	
1.4	64QAM	3	3	22.11	22.06	22.01		
1.4	64QAM	6	0	20.90	20.86	20.89		
1.4	256QAM	1	0	19.68	19.71	19.56	20.6	
1.4	256QAM	1	3	19.47	19.37	19.28		
1.4	256QAM	1	5	19.52	19.43	19.22		
1.4	256QAM	3	0	19.35	19.35	19.22	20.6	
1.4	256QAM	3	1	19.36	19.38	19.34		
1.4	256QAM	3	3	19.19	19.21	19.30		
1.4	256QAM	6	0	19.23	19.27	19.27	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	19.01	19.04	19.05	19.2
20	QPSK	1	49	18.89	18.91	18.88	
20	QPSK	1	99	18.84	18.79	18.78	
20	QPSK	50	0	18.93	18.94	18.95	19.2
20	QPSK	50	24	18.93	18.93	18.88	
20	QPSK	50	50	18.89	18.86	18.85	
20	QPSK	100	0	18.90	18.92	18.93	
20	16QAM	1	0	18.97	19.03	19.01	19.2
20	16QAM	1	49	18.94	18.94	18.88	
20	16QAM	1	99	18.92	18.94	18.81	
20	16QAM	50	0	18.99	18.97	18.96	19.2
20	16QAM	50	24	18.94	18.92	18.91	
20	16QAM	50	50	18.87	18.90	18.87	
20	16QAM	100	0	18.92	18.92	18.90	
20	64QAM	1	0	18.96	18.92	18.89	19.2
20	64QAM	1	49	18.86	18.86	18.88	
20	64QAM	1	99	18.76	18.76	18.68	
20	64QAM	50	0	19.02	19.01	18.98	19.2
20	64QAM	50	24	18.98	18.96	18.93	
20	64QAM	50	50	18.90	18.90	18.87	
20	64QAM	100	0	18.93	18.92	18.90	
20	256QAM	1	0	18.76	18.75	18.86	19.2
20	256QAM	1	49	18.67	18.71	18.63	
20	256QAM	1	99	18.69	18.59	18.45	
20	256QAM	50	0	18.56	18.64	18.50	19.2
20	256QAM	50	24	18.60	18.53	18.49	
20	256QAM	50	50	18.50	18.46	18.57	
20	256QAM	100	0	18.58	18.45	18.63	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.95	18.91	18.87	19.2
15	QPSK	1	37	18.70	18.79	18.77	
15	QPSK	1	74	18.81	18.60	18.73	
15	QPSK	36	0	18.85	18.86	18.86	19.2
15	QPSK	36	20	18.81	18.91	18.87	
15	QPSK	36	39	18.78	18.86	18.81	
15	QPSK	75	0	18.85	18.74	18.82	
15	16QAM	1	0	18.93	18.95	18.97	19.2
15	16QAM	1	37	18.78	18.91	18.80	
15	16QAM	1	74	18.77	18.87	18.78	
15	16QAM	36	0	18.87	18.78	18.76	19.2
15	16QAM	36	20	18.88	18.80	18.74	
15	16QAM	36	39	18.82	18.84	18.77	
15	16QAM	75	0	18.83	18.78	18.89	
15	64QAM	1	0	18.90	18.75	18.76	19.2
15	64QAM	1	37	18.68	18.82	18.83	
15	64QAM	1	74	18.59	18.69	18.55	
15	64QAM	36	0	18.86	18.95	18.95	19.2
15	64QAM	36	20	18.92	18.84	18.92	
15	64QAM	36	39	18.72	18.80	18.75	
15	64QAM	75	0	18.88	18.83	18.76	
15	256QAM	1	0	18.76	18.62	18.82	19.2
15	256QAM	1	37	18.49	18.64	18.58	
15	256QAM	1	74	18.49	18.39	18.27	
15	256QAM	36	0	18.55	18.54	18.38	19.2
15	256QAM	36	20	18.48	18.50	18.40	



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15	256QAM	36	39	18.33	18.44	18.39	
15	256QAM	75	0	18.41	18.44	18.54	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.81	19.01	18.93	19.2
10	QPSK	1	25	18.76	18.74	18.80	
10	QPSK	1	49	18.67	18.61	18.58	
10	QPSK	25	0	18.82	18.87	18.87	19.2
10	QPSK	25	12	18.92	18.88	18.86	
10	QPSK	25	25	18.75	18.86	18.82	
10	QPSK	50	0	18.80	18.76	18.93	
10	16QAM	1	0	18.91	18.89	18.82	
10	16QAM	1	25	18.92	18.92	18.76	19.2
10	16QAM	1	49	18.75	18.82	18.81	
10	16QAM	25	0	18.81	18.89	18.80	19.2
10	16QAM	25	12	18.86	18.85	18.77	
10	16QAM	25	25	18.85	18.89	18.69	
10	16QAM	50	0	18.90	18.73	18.87	
10	64QAM	1	0	18.92	18.77	18.77	
10	64QAM	1	25	18.70	18.73	18.71	19.2
10	64QAM	1	49	18.66	18.70	18.62	
10	64QAM	25	0	18.82	18.92	18.89	
10	64QAM	25	12	18.89	18.82	18.84	19.2
10	64QAM	25	25	18.82	18.83	18.68	
10	64QAM	50	0	18.75	18.85	18.78	
10	256QAM	1	0	18.61	18.71	18.85	
10	256QAM	1	25	18.64	18.53	18.61	
10	256QAM	1	49	18.65	18.45	18.38	19.2
10	256QAM	25	0	18.42	18.51	18.30	
10	256QAM	25	12	18.58	18.46	18.43	
10	256QAM	25	25	18.41	18.30	18.38	
10	256QAM	50	0	18.54	18.45	18.51	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.00	18.85	19.02	19.2
5	QPSK	1	12	18.76	18.83	18.86	
5	QPSK	1	24	18.72	18.67	18.59	
5	QPSK	12	0	18.79	18.78	18.90	19.2
5	QPSK	12	7	18.90	18.74	18.70	
5	QPSK	12	13	18.82	18.83	18.73	
5	QPSK	25	0	18.82	18.74	18.89	
5	16QAM	1	0	18.91	18.98	18.97	
5	16QAM	1	12	18.76	18.78	18.76	19.2
5	16QAM	1	24	18.78	18.74	18.68	
5	16QAM	12	0	18.85	18.91	18.81	
5	16QAM	12	7	18.85	18.79	18.80	19.2
5	16QAM	12	13	18.86	18.81	18.80	
5	16QAM	25	0	18.85	18.91	18.80	
5	64QAM	1	0	18.85	18.73	18.72	
5	64QAM	1	12	18.71	18.68	18.70	
5	64QAM	1	24	18.73	18.65	18.55	19.2
5	64QAM	12	0	19.02	18.89	18.80	
5	64QAM	12	7	18.82	18.84	18.82	
5	64QAM	12	13	18.77	18.78	18.86	
5	64QAM	25	0	18.74	18.89	18.83	
5	256QAM	1	0	18.75	18.70	18.68	19.2
5	256QAM	1	12	18.67	18.55	18.44	
5	256QAM	1	24	18.58	18.44	18.40	
5	256QAM	12	0	18.47	18.60	18.44	
5	256QAM	12	7	18.49	18.34	18.41	
5	256QAM	12	13	18.38	18.45	18.48	19.2
5	256QAM	25	0	18.48	18.34	18.46	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.95	19.04	19.03	19.2
3	QPSK	1	8	18.70	18.85	18.80	
3	QPSK	1	14	18.78	18.67	18.76	
3	QPSK	8	0	18.86	18.82	18.76	19.2
3	QPSK	8	4	18.75	18.85	18.79	
3	QPSK	8	7	18.82	18.74	18.74	
3	QPSK	15	0	18.71	18.87	18.84	
3	16QAM	1	0	18.88	19.02	18.99	19.2
3	16QAM	1	8	18.91	18.75	18.79	
3	16QAM	1	14	18.73	18.75	18.78	
3	16QAM	8	0	18.92	18.78	18.96	19.2
3	16QAM	8	4	18.90	18.77	18.91	
3	16QAM	8	7	18.75	18.88	18.85	
3	16QAM	15	0	18.87	18.84	18.70	
3	64QAM	1	0	18.77	18.81	18.83	19.2
3	64QAM	1	8	18.71	18.86	18.83	
3	64QAM	1	14	18.74	18.75	18.58	
3	64QAM	8	0	18.91	18.94	18.80	19.2
3	64QAM	8	4	18.95	18.76	18.89	
3	64QAM	8	7	18.83	18.87	18.71	
3	64QAM	15	0	18.76	18.83	18.74	
3	256QAM	1	0	18.57	18.57	18.79	19.2
3	256QAM	1	8	18.64	18.61	18.62	
3	256QAM	1	14	18.64	18.51	18.44	
3	256QAM	8	0	18.37	18.57	18.47	19.2
3	256QAM	8	4	18.51	18.39	18.38	
3	256QAM	8	7	18.37	18.41	18.53	
3	256QAM	15	0	18.53	18.29	18.56	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.89	18.89	18.91	19.2
1.4	QPSK	1	3	18.85	18.81	18.76	
1.4	QPSK	1	5	18.71	18.72	18.66	
1.4	QPSK	3	0	18.79	18.93	18.77	
1.4	QPSK	3	1	18.88	18.88	18.69	
1.4	QPSK	3	3	18.80	18.74	18.82	
1.4	QPSK	6	0	18.75	18.84	18.91	19.2
1.4	16QAM	1	0	18.88	18.83	18.94	19.2
1.4	16QAM	1	3	18.76	18.74	18.74	
1.4	16QAM	1	5	18.76	18.81	18.63	
1.4	16QAM	3	0	18.86	18.89	18.94	
1.4	16QAM	3	1	18.84	18.82	18.86	
1.4	16QAM	3	3	18.71	18.78	18.86	
1.4	16QAM	6	0	18.77	18.83	18.87	19.2
1.4	64QAM	1	0	18.81	18.84	18.83	19.2
1.4	64QAM	1	3	18.76	18.70	18.81	
1.4	64QAM	1	5	18.56	18.75	18.53	
1.4	64QAM	3	0	18.96	18.99	18.83	
1.4	64QAM	3	1	18.95	18.79	18.91	
1.4	64QAM	3	3	18.73	18.72	18.84	
1.4	64QAM	6	0	18.86	18.92	18.77	19.2
1.4	256QAM	1	0	18.61	18.69	18.67	19.2
1.4	256QAM	1	3	18.54	18.61	18.60	
1.4	256QAM	1	5	18.64	18.41	18.39	
1.4	256QAM	3	0	18.39	18.54	18.37	
1.4	256QAM	3	1	18.59	18.36	18.35	
1.4	256QAM	3	3	18.34	18.42	18.52	
1.4	256QAM	6	0	18.48	18.40	18.45	19.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	16.21	16.22	16.11	16.9
20	QPSK	1	49	16.05	16.02	16.08	
20	QPSK	1	99	15.97	15.98	15.96	
20	QPSK	50	0	16.15	16.18	16.11	16.9
20	QPSK	50	24	16.11	16.10	16.09	
20	QPSK	50	50	16.02	16.10	16.05	
20	QPSK	100	0	16.10	16.12	16.00	
20	16QAM	1	0	16.12	16.08	16.10	16.9
20	16QAM	1	49	15.88	15.95	15.88	
20	16QAM	1	99	16.01	15.92	15.93	
20	16QAM	50	0	15.76	15.68	15.70	16.9
20	16QAM	50	24	15.69	15.71	15.69	
20	16QAM	50	50	15.57	15.62	15.63	
20	16QAM	100	0	15.67	15.70	15.65	
20	64QAM	1	0	15.98	15.96	15.96	16.9
20	64QAM	1	49	15.86	15.93	15.92	
20	64QAM	1	99	15.91	15.76	15.86	
20	64QAM	50	0	15.73	15.74	15.71	16.9
20	64QAM	50	24	15.64	15.66	15.70	
20	64QAM	50	50	15.62	15.60	15.58	
20	64QAM	100	0	15.73	15.69	15.64	
20	256QAM	1	0	16.00	16.03	15.89	16.9
20	256QAM	1	49	15.89	15.87	16.01	
20	256QAM	1	99	15.78	15.78	15.85	
20	256QAM	50	0	15.82	15.70	15.58	16.9
20	256QAM	50	24	15.74	15.77	15.61	
20	256QAM	50	50	15.53	15.73	15.67	
20	256QAM	100	0	15.61	15.75	15.82	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	16.19	15.95	16.04	16.9
15	QPSK	1	37	15.85	15.92	16.01	
15	QPSK	1	74	15.90	15.78	15.89	
15	QPSK	36	0	15.98	16.02	16.10	16.9
15	QPSK	36	20	15.86	16.01	15.89	
15	QPSK	36	39	15.96	16.05	15.88	
15	QPSK	75	0	16.07	15.95	15.90	
15	16QAM	1	0	15.98	16.08	16.10	16.9
15	16QAM	1	37	15.97	15.94	15.79	
15	16QAM	1	74	15.91	15.93	15.73	
15	16QAM	36	0	15.73	15.56	15.55	16.9
15	16QAM	36	20	15.51	15.59	15.51	
15	16QAM	36	39	15.55	15.46	15.61	
15	16QAM	75	0	15.66	15.57	15.53	
15	64QAM	1	0	15.85	15.89	15.79	16.9
15	64QAM	1	37	15.78	15.82	15.91	
15	64QAM	1	74	15.80	15.80	15.64	
15	64QAM	36	0	15.54	15.69	15.69	16.9
15	64QAM	36	20	15.51	15.65	15.65	
15	64QAM	36	39	15.59	15.51	15.66	
15	64QAM	75	0	15.66	15.57	15.51	
15	256QAM	1	0	15.82	15.89	15.80	16.9
15	256QAM	1	37	15.86	15.82	15.89	
15	256QAM	1	74	15.71	15.73	15.74	
15	256QAM	36	0	15.66	15.66	15.62	16.9
15	256QAM	36	20	15.68	15.70	15.54	



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15	256QAM	36	39	15.43	15.68	15.58	
15	256QAM	75	0	15.53	15.63	15.61	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	16.13	16.01	16.11	16.9
10	QPSK	1	25	15.89	15.83	15.86	
10	QPSK	1	49	15.83	15.80	15.73	
10	QPSK	25	0	16.01	16.06	16.11	16.9
10	QPSK	25	12	15.91	16.07	15.88	
10	QPSK	25	25	15.96	15.84	16.04	
10	QPSK	50	0	15.90	15.93	15.99	
10	16QAM	1	0	15.99	15.98	16.13	
10	16QAM	1	25	15.89	15.95	15.79	16.9
10	16QAM	1	49	15.87	15.84	15.83	
10	16QAM	25	0	15.65	15.59	15.72	16.9
10	16QAM	25	12	15.69	15.55	15.58	
10	16QAM	25	25	15.58	15.55	15.46	
10	16QAM	50	0	15.70	15.47	15.58	
10	64QAM	1	0	15.77	15.70	15.89	
10	64QAM	1	25	15.88	15.83	15.90	16.9
10	64QAM	1	49	15.83	15.75	15.68	
10	64QAM	25	0	15.64	15.67	15.62	
10	64QAM	25	12	15.50	15.44	15.61	16.9
10	64QAM	25	25	15.44	15.40	15.48	
10	64QAM	50	0	15.51	15.59	15.51	
10	256QAM	1	0	15.90	15.91	15.70	
10	256QAM	1	25	15.73	15.85	15.91	
10	256QAM	1	49	15.92	15.76	15.61	16.9
10	256QAM	25	0	15.70	15.43	15.61	
10	256QAM	25	12	15.69	15.71	15.60	
10	256QAM	25	25	15.39	15.71	15.69	
10	256QAM	50	0	15.29	15.53	15.75	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	16.12	16.01	16.14	16.9
5	QPSK	1	12	16.02	15.86	15.96	
5	QPSK	1	24	15.97	15.80	15.87	
5	QPSK	12	0	15.86	16.00	16.08	16.9
5	QPSK	12	7	15.99	16.05	15.97	
5	QPSK	12	13	15.97	15.98	15.85	
5	QPSK	25	0	15.97	15.96	15.89	
5	16QAM	1	0	15.99	16.15	15.96	
5	16QAM	1	12	15.81	15.90	15.86	16.9
5	16QAM	1	24	15.91	15.80	15.86	
5	16QAM	12	0	15.54	15.72	15.54	
5	16QAM	12	7	15.54	15.67	15.50	16.9
5	16QAM	12	13	15.52	15.53	15.61	
5	16QAM	25	0	15.55	15.56	15.55	
5	64QAM	1	0	15.79	15.74	15.91	
5	64QAM	1	12	15.83	15.84	15.82	
5	64QAM	1	24	15.93	15.69	15.79	16.9
5	64QAM	12	0	15.60	15.71	15.51	
5	64QAM	12	7	15.50	15.54	15.61	
5	64QAM	12	13	15.46	15.62	15.53	
5	64QAM	25	0	15.56	15.47	15.57	
5	256QAM	1	0	15.77	15.81	15.90	16.9
5	256QAM	1	12	15.75	15.75	15.84	
5	256QAM	1	24	15.61	15.61	15.71	
5	256QAM	12	0	15.63	15.53	15.58	
5	256QAM	12	7	15.67	15.83	15.56	
5	256QAM	12	13	15.27	15.72	15.39	16.9
5	256QAM	25	0	15.46	15.85	15.67	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	16.06	16.06	15.94	16.9
3	QPSK	1	8	15.94	15.89	15.93	
3	QPSK	1	14	15.92	15.91	15.81	
3	QPSK	8	0	16.11	16.00	16.02	16.9
3	QPSK	8	4	15.97	16.09	15.91	
3	QPSK	8	7	15.94	15.84	15.97	
3	QPSK	15	0	15.98	15.96	16.06	16.9
3	16QAM	1	0	16.14	16.13	16.02	
3	16QAM	1	8	15.81	15.86	15.87	
3	16QAM	1	14	15.97	15.92	15.72	16.9
3	16QAM	8	0	15.67	15.67	15.67	
3	16QAM	8	4	15.49	15.50	15.63	
3	16QAM	8	7	15.58	15.39	15.64	16.9
3	16QAM	15	0	15.57	15.64	15.44	
3	64QAM	1	0	15.83	15.97	15.89	
3	64QAM	1	8	15.77	15.80	15.77	16.9
3	64QAM	1	14	15.74	15.68	15.69	
3	64QAM	8	0	15.49	15.61	15.51	
3	64QAM	8	4	15.62	15.60	15.59	16.9
3	64QAM	8	7	15.43	15.63	15.47	
3	64QAM	15	0	15.70	15.57	15.48	
3	256QAM	1	0	15.90	15.94	15.77	16.9
3	256QAM	1	8	15.80	15.79	15.96	
3	256QAM	1	14	15.77	15.72	15.73	
3	256QAM	8	0	15.54	15.65	15.54	16.9
3	256QAM	8	4	15.55	15.70	15.67	
3	256QAM	8	7	15.41	15.78	15.54	
3	256QAM	15	0	15.46	15.71	15.58	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	16.14	15.99	16.05	16.9
1.4	QPSK	1	3	16.05	16.08	15.91	
1.4	QPSK	1	5	15.99	15.78	15.86	
1.4	QPSK	3	0	16.01	16.10	15.88	16.9
1.4	QPSK	3	1	15.92	15.96	15.91	
1.4	QPSK	3	3	15.80	15.91	15.86	
1.4	QPSK	6	0	16.00	15.96	15.88	
1.4	16QAM	1	0	16.03	15.99	15.99	16.9
1.4	16QAM	1	3	15.89	15.82	15.70	
1.4	16QAM	1	5	15.93	15.96	15.72	
1.4	16QAM	3	0	15.57	15.73	15.61	16.9
1.4	16QAM	3	1	15.58	15.50	15.44	
1.4	16QAM	3	3	15.55	15.43	15.48	
1.4	16QAM	6	0	15.73	15.55	15.61	
1.4	64QAM	1	0	15.93	15.80	15.95	16.9
1.4	64QAM	1	3	15.79	15.91	15.96	
1.4	64QAM	1	5	15.83	15.78	15.80	
1.4	64QAM	3	0	15.73	15.70	15.72	16.9
1.4	64QAM	3	1	15.62	15.50	15.67	
1.4	64QAM	3	3	15.43	15.42	15.60	
1.4	64QAM	6	0	15.50	15.55	15.53	
1.4	256QAM	1	0	15.96	15.88	15.82	16.9
1.4	256QAM	1	3	15.82	15.92	15.90	
1.4	256QAM	1	5	15.83	15.64	15.75	
1.4	256QAM	3	0	15.61	15.68	15.51	16.9
1.4	256QAM	3	1	15.52	15.66	15.73	
1.4	256QAM	3	3	15.40	15.56	15.55	
1.4	256QAM	6	0	15.44	15.60	15.62	



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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	19.16	19.20	19.17	19.4
20	QPSK	1	49	18.98	19.04	19.02	
20	QPSK	1	99	18.98	18.97	18.93	
20	QPSK	50	0	19.15	19.16	19.15	19.4
20	QPSK	50	24	19.11	19.12	19.12	
20	QPSK	50	50	19.09	19.06	19.05	
20	QPSK	100	0	19.12	19.13	19.12	19.4
20	16QAM	1	0	19.10	19.02	19.06	
20	16QAM	1	49	18.92	18.94	18.85	
20	16QAM	1	99	18.85	18.91	18.89	19.4
20	16QAM	50	0	19.15	19.16	19.16	
20	16QAM	50	24	19.09	19.13	19.09	
20	16QAM	50	50	19.05	19.08	19.05	19.4
20	16QAM	100	0	19.11	19.13	19.08	
20	64QAM	1	0	19.03	19.00	19.09	
20	64QAM	1	49	18.85	18.86	18.81	19.4
20	64QAM	1	99	18.77	18.79	18.85	
20	64QAM	50	0	19.19	19.17	19.13	
20	64QAM	50	24	19.12	19.13	19.10	19.4
20	64QAM	50	50	19.06	19.08	19.03	
20	64QAM	100	0	19.12	19.10	19.10	
20	256QAM	1	0	19.04	18.93	19.10	19.4
20	256QAM	1	49	18.82	18.89	18.82	
20	256QAM	1	99	18.62	18.94	18.74	
20	256QAM	50	0	18.64	18.72	18.64	19.4
20	256QAM	50	24	18.62	18.59	18.72	
20	256QAM	50	50	18.59	18.61	18.62	
20	256QAM	100	0	18.66	18.61	18.67	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.99	19.12	19.11	19.4
15	QPSK	1	37	18.90	18.85	19.00	
15	QPSK	1	74	18.85	18.77	18.92	
15	QPSK	36	0	19.15	18.98	19.12	19.4
15	QPSK	36	20	18.99	18.92	18.93	
15	QPSK	36	39	19.00	19.05	19.01	
15	QPSK	75	0	19.03	19.13	19.06	19.4
15	16QAM	1	0	18.95	19.02	19.05	
15	16QAM	1	37	18.73	18.84	18.82	
15	16QAM	1	74	18.78	18.81	18.70	19.4
15	16QAM	36	0	19.13	19.08	19.07	
15	16QAM	36	20	18.92	19.13	18.95	
15	16QAM	36	39	18.92	18.99	18.99	19.4
15	16QAM	75	0	18.91	19.09	19.01	
15	64QAM	1	0	18.98	18.83	18.91	
15	64QAM	1	37	18.78	18.79	18.67	19.4
15	64QAM	1	74	18.60	18.67	18.67	
15	64QAM	36	0	18.99	19.11	19.04	
15	64QAM	36	20	19.09	18.97	18.96	19.4
15	64QAM	36	39	18.97	18.93	18.95	
15	64QAM	75	0	18.98	19.01	19.01	
15	256QAM	1	0	18.90	18.78	19.07	19.4
15	256QAM	1	37	18.67	18.82	18.65	
15	256QAM	1	74	18.54	18.83	18.62	
15	256QAM	36	0	18.57	18.62	18.48	19.4
15	256QAM	36	20	18.53	18.40	18.65	



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15	256QAM	36	39	18.54	18.47	18.42	
15	256QAM	75	0	18.54	18.51	18.63	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.07	19.13	19.17	19.4
10	QPSK	1	25	18.86	18.95	18.94	
10	QPSK	1	49	18.90	18.89	18.89	
10	QPSK	25	0	19.02	19.10	19.13	19.4
10	QPSK	25	12	18.92	18.93	19.11	
10	QPSK	25	25	19.07	19.00	18.85	
10	QPSK	50	0	18.97	19.06	19.08	
10	16QAM	1	0	18.91	18.93	18.93	
10	16QAM	1	25	18.80	18.78	18.73	19.4
10	16QAM	1	49	18.83	18.80	18.76	
10	16QAM	25	0	19.02	19.14	19.07	19.4
10	16QAM	25	12	18.94	19.09	19.00	
10	16QAM	25	25	18.91	18.96	18.89	
10	16QAM	50	0	18.97	19.00	19.06	
10	64QAM	1	0	18.85	18.89	19.07	
10	64QAM	1	25	18.65	18.73	18.81	19.4
10	64QAM	1	49	18.75	18.78	18.80	
10	64QAM	25	0	19.11	19.00	19.12	
10	64QAM	25	12	18.94	19.01	19.09	19.4
10	64QAM	25	25	18.91	18.89	18.94	
10	64QAM	50	0	19.11	19.06	18.96	
10	256QAM	1	0	19.03	18.92	18.93	
10	256QAM	1	25	18.68	18.86	18.66	
10	256QAM	1	49	18.45	18.79	18.68	19.4
10	256QAM	25	0	18.50	18.58	18.46	
10	256QAM	25	12	18.50	18.49	18.59	
10	256QAM	25	25	18.40	18.59	18.56	
10	256QAM	50	0	18.54	18.59	18.48	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.09	19.09	19.12	19.4
5	QPSK	1	12	18.97	18.96	18.96	
5	QPSK	1	24	18.90	18.77	18.78	
5	QPSK	12	0	19.11	19.06	19.10	19.4
5	QPSK	12	7	18.91	18.93	18.92	
5	QPSK	12	13	19.07	18.97	19.04	
5	QPSK	25	0	19.04	19.04	18.94	
5	16QAM	1	0	19.07	18.83	19.04	
5	16QAM	1	12	18.77	18.92	18.68	19.4
5	16QAM	1	24	18.79	18.82	18.77	
5	16QAM	12	0	18.95	19.12	19.16	
5	16QAM	12	7	18.94	18.93	18.93	19.4
5	16QAM	12	13	19.01	19.00	18.90	
5	16QAM	25	0	19.11	19.00	19.02	
5	64QAM	1	0	18.92	18.81	19.02	
5	64QAM	1	12	18.67	18.71	18.80	
5	64QAM	1	24	18.69	18.76	18.74	19.4
5	64QAM	12	0	19.12	19.17	19.09	
5	64QAM	12	7	19.11	19.06	18.91	
5	64QAM	12	13	19.04	18.92	18.91	
5	64QAM	25	0	19.11	18.93	18.95	
5	256QAM	1	0	18.95	18.90	19.05	19.4
5	256QAM	1	12	18.67	18.87	18.78	
5	256QAM	1	24	18.45	18.89	18.69	
5	256QAM	12	0	18.52	18.56	18.52	
5	256QAM	12	7	18.53	18.48	18.63	
5	256QAM	12	13	18.41	18.44	18.59	19.4
5	256QAM	25	0	18.46	18.54	18.47	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)	
3	QPSK	1	0	19.02	19.18	19.13	19.4	
3	QPSK	1	8	18.88	18.84	18.95		
3	QPSK	1	14	18.85	18.84	18.85		
3	QPSK	8	0	19.12	19.11	19.10	19.4	
3	QPSK	8	4	19.02	19.12	19.00		
3	QPSK	8	7	18.95	18.99	18.94		
3	QPSK	15	0	19.03	19.06	19.04	19.4	
3	16QAM	1	0	19.03	18.99	18.86		
3	16QAM	1	8	18.82	18.75	18.69		
3	16QAM	1	14	18.65	18.89	18.83	19.4	
3	16QAM	8	0	18.95	19.07	19.07		
3	16QAM	8	4	18.98	18.95	18.93		
3	16QAM	8	7	18.99	18.99	19.00	19.4	
3	16QAM	15	0	18.94	19.05	18.93		
3	64QAM	1	0	19.01	18.88	18.94		
3	64QAM	1	8	18.82	18.85	18.74	19.4	
3	64QAM	1	14	18.74	18.71	18.68		
3	64QAM	8	0	19.03	19.05	19.09		
3	64QAM	8	4	19.11	18.95	18.92	19.4	
3	64QAM	8	7	19.03	19.01	19.02		
3	64QAM	15	0	19.11	19.05	18.93		
3	256QAM	1	0	18.93	18.78	19.00	19.4	
3	256QAM	1	8	18.73	18.80	18.82		
3	256QAM	1	14	18.62	18.81	18.71		
3	256QAM	8	0	18.62	18.53	18.58	19.4	
3	256QAM	8	4	18.48	18.45	18.55		
3	256QAM	8	7	18.42	18.44	18.55		
3	256QAM	15	0	18.50	18.49	18.59	19.4	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.10	19.01	19.12	19.4	
1.4	QPSK	1	3	18.88	19.01	18.91		
1.4	QPSK	1	5	18.84	18.89	18.73		
1.4	QPSK	3	0	19.12	19.16	19.11	19.4	
1.4	QPSK	3	1	19.03	19.10	19.12		
1.4	QPSK	3	3	18.90	18.92	18.89		
1.4	QPSK	6	0	19.10	19.00	18.94	19.4	
1.4	16QAM	1	0	18.91	18.90	18.96		
1.4	16QAM	1	3	18.76	18.80	18.79		
1.4	16QAM	1	5	18.65	18.90	18.80	19.4	
1.4	16QAM	3	0	18.95	19.12	19.13		
1.4	16QAM	3	1	18.98	18.97	18.89		
1.4	16QAM	3	3	18.97	18.95	18.90	19.4	
1.4	16QAM	6	0	19.05	19.09	18.89		
1.4	64QAM	1	0	18.96	18.87	19.01		
1.4	64QAM	1	3	18.70	18.66	18.68	19.4	
1.4	64QAM	1	5	18.73	18.79	18.79		
1.4	64QAM	3	0	19.10	18.97	19.08		
1.4	64QAM	3	1	18.93	19.07	19.06	19.4	
1.4	64QAM	3	3	18.94	18.92	18.94		
1.4	64QAM	6	0	19.04	19.06	19.01		
1.4	256QAM	1	0	19.04	18.83	18.94	19.4	
1.4	256QAM	1	3	18.66	18.76	18.82		
1.4	256QAM	1	5	18.59	18.79	18.67		
1.4	256QAM	3	0	18.61	18.65	18.64	19.4	
1.4	256QAM	3	1	18.53	18.45	18.67		
1.4	256QAM	3	3	18.44	18.46	18.61		
1.4	256QAM	6	0	18.57	18.55	18.65	19.4	



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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	20.95	20.94	20.96	21.6
20	QPSK	1	49	20.73	20.81	20.81	
20	QPSK	1	99	20.85	20.75	20.76	
20	QPSK	50	0	20.94	20.94	20.95	21.6
20	QPSK	50	24	20.90	20.93	20.89	
20	QPSK	50	50	20.90	20.78	20.67	
20	QPSK	100	0	20.92	20.85	20.93	21.6
20	16QAM	1	0	20.73	20.71	20.83	
20	16QAM	1	49	20.76	20.51	20.76	
20	16QAM	1	99	20.67	20.56	20.45	21.6
20	16QAM	50	0	20.82	20.82	20.72	
20	16QAM	50	24	20.71	20.77	20.68	
20	16QAM	50	50	20.74	20.75	20.65	21.6
20	16QAM	100	0	20.74	20.84	20.76	
20	64QAM	1	0	20.83	20.86	20.91	
20	64QAM	1	49	20.80	20.82	20.88	21.6
20	64QAM	1	99	20.80	20.81	20.74	
20	64QAM	50	0	20.67	20.81	20.75	
20	64QAM	50	24	20.78	20.61	20.63	21.6
20	64QAM	50	50	20.56	20.69	20.70	
20	64QAM	100	0	20.78	20.67	20.64	
20	256QAM	1	0	19.72	19.76	19.55	20.6
20	256QAM	1	49	19.57	19.57	19.55	
20	256QAM	1	99	19.49	19.57	19.40	
20	256QAM	50	0	19.47	19.50	19.35	20.6
20	256QAM	50	24	19.41	19.38	19.45	
20	256QAM	50	50	19.34	19.46	19.38	
20	256QAM	100	0	19.31	19.26	19.25	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.86	20.84	20.92	21.6
15	QPSK	1	37	20.89	20.59	20.80	
15	QPSK	1	74	20.77	20.62	20.61	
15	QPSK	36	0	20.89	20.65	20.90	21.6
15	QPSK	36	20	20.78	20.70	20.66	
15	QPSK	36	39	20.61	20.56	20.65	
15	QPSK	75	0	20.83	20.73	20.68	21.6
15	16QAM	1	0	20.83	20.59	20.75	
15	16QAM	1	37	20.68	20.46	20.50	
15	16QAM	1	74	20.42	20.42	20.44	21.6
15	16QAM	36	0	20.83	20.76	20.66	
15	16QAM	36	20	20.79	20.81	20.64	
15	16QAM	36	39	20.75	20.80	20.71	21.6
15	16QAM	75	0	20.81	20.70	20.62	
15	64QAM	1	0	20.86	20.87	20.85	
15	64QAM	1	37	20.86	20.66	20.88	21.6
15	64QAM	1	74	20.84	20.79	20.73	
15	64QAM	36	0	20.71	20.68	20.52	
15	64QAM	36	20	20.52	20.45	20.59	21.6
15	64QAM	36	39	20.58	20.41	20.53	
15	64QAM	75	0	20.56	20.46	20.53	
15	256QAM	1	0	19.65	19.66	19.49	20.6
15	256QAM	1	37	19.62	19.27	19.45	
15	256QAM	1	74	19.39	19.42	19.18	
15	256QAM	36	0	19.50	19.27	19.18	20.6
15	256QAM	36	20	19.38	19.29	19.35	



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15	256QAM	36	39	19.11	19.33	19.19	
15	256QAM	75	0	19.28	19.33	19.17	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.95	20.90	20.72	21.6
10	QPSK	1	25	20.65	20.63	20.77	
10	QPSK	1	49	20.54	20.64	20.44	
10	QPSK	25	0	20.89	20.85	20.82	21.6
10	QPSK	25	12	20.75	20.64	20.84	
10	QPSK	25	25	20.72	20.62	20.68	
10	QPSK	50	0	20.81	20.61	20.73	
10	16QAM	1	0	20.76	20.62	20.51	21.6
10	16QAM	1	25	20.57	20.46	20.41	
10	16QAM	1	49	20.67	20.48	20.55	
10	16QAM	25	0	20.63	20.79	20.74	21.6
10	16QAM	25	12	20.62	20.65	20.69	
10	16QAM	25	25	20.75	20.63	20.49	
10	16QAM	50	0	20.69	20.70	20.72	
10	64QAM	1	0	20.84	20.85	20.87	21.6
10	64QAM	1	25	20.93	20.86	20.72	
10	64QAM	1	49	20.96	20.83	20.62	
10	64QAM	25	0	20.70	20.54	20.61	21.6
10	64QAM	25	12	20.62	20.75	20.55	
10	64QAM	25	25	20.59	20.49	20.49	
10	64QAM	50	0	20.65	20.45	20.59	
10	256QAM	1	0	19.68	19.53	19.37	20.6
10	256QAM	1	25	19.48	19.35	19.30	
10	256QAM	1	49	19.42	19.58	19.15	
10	256QAM	25	0	19.38	19.31	19.37	20.6
10	256QAM	25	12	19.26	19.28	19.22	
10	256QAM	25	25	19.29	19.30	19.18	
10	256QAM	50	0	19.32	19.15	19.11	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.93	20.91	20.71	21.6
5	QPSK	1	12	20.58	20.73	20.66	
5	QPSK	1	24	20.73	20.71	20.61	
5	QPSK	12	0	20.80	20.72	20.85	21.6
5	QPSK	12	7	20.80	20.79	20.80	
5	QPSK	12	13	20.73	20.72	20.58	
5	QPSK	25	0	20.83	20.66	20.64	
5	16QAM	1	0	20.81	20.59	20.63	21.6
5	16QAM	1	12	20.58	20.48	20.48	
5	16QAM	1	24	20.68	20.46	20.42	
5	16QAM	12	0	20.90	20.84	20.60	21.6
5	16QAM	12	7	20.72	20.75	20.59	
5	16QAM	12	13	20.74	20.54	20.54	
5	16QAM	25	0	20.60	20.74	20.64	
5	64QAM	1	0	20.94	20.82	20.91	21.6
5	64QAM	1	12	20.73	20.84	20.87	
5	64QAM	1	24	20.84	20.85	20.68	
5	64QAM	12	0	20.79	20.70	20.59	21.6
5	64QAM	12	7	20.50	20.52	20.59	
5	64QAM	12	13	20.50	20.55	20.50	
5	64QAM	25	0	20.70	20.69	20.49	
5	256QAM	1	0	19.78	19.60	19.53	20.6
5	256QAM	1	12	19.40	19.36	19.22	
5	256QAM	1	24	19.52	19.33	19.29	
5	256QAM	12	0	19.41	19.29	19.25	20.6
5	256QAM	12	7	19.31	19.36	19.23	
5	256QAM	12	13	19.24	19.12	19.25	
5	256QAM	25	0	19.15	19.22	19.15	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.88	20.88	20.92	21.6
3	QPSK	1	8	20.63	20.88	20.56	
3	QPSK	1	14	20.73	20.69	20.70	
3	QPSK	8	0	20.95	20.82	20.87	21.6
3	QPSK	8	4	20.76	20.59	20.75	
3	QPSK	8	7	20.67	20.81	20.75	
3	QPSK	15	0	20.77	20.74	20.68	21.6
3	16QAM	1	0	20.87	20.72	20.61	
3	16QAM	1	8	20.58	20.64	20.56	
3	16QAM	1	14	20.62	20.59	20.48	21.6
3	16QAM	8	0	20.67	20.67	20.50	
3	16QAM	8	4	20.58	20.51	20.70	
3	16QAM	8	7	20.65	20.61	20.52	21.6
3	16QAM	15	0	20.54	20.74	20.83	
3	64QAM	1	0	20.89	20.86	20.94	
3	64QAM	1	8	20.88	20.75	20.92	21.6
3	64QAM	1	14	20.82	20.78	20.57	
3	64QAM	8	0	20.59	20.50	20.50	
3	64QAM	8	4	20.72	20.73	20.46	21.6
3	64QAM	8	7	20.49	20.43	20.63	
3	64QAM	15	0	20.53	20.46	20.41	
3	256QAM	1	0	19.65	19.58	19.46	20.6
3	256QAM	1	8	19.43	19.29	19.35	
3	256QAM	1	14	19.37	19.44	19.18	
3	256QAM	8	0	19.27	19.23	19.35	20.6
3	256QAM	8	4	19.42	19.30	19.41	
3	256QAM	8	7	19.34	19.19	19.24	
3	256QAM	15	0	19.34	19.22	19.16	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.80	20.88	20.84	21.6
1.4	QPSK	1	3	20.81	20.53	20.62	
1.4	QPSK	1	5	20.73	20.58	20.61	
1.4	QPSK	3	0	20.89	20.83	20.96	21.6
1.4	QPSK	3	1	20.66	20.84	20.59	
1.4	QPSK	3	3	20.56	20.70	20.43	
1.4	QPSK	6	0	20.72	20.70	20.90	21.6
1.4	16QAM	1	0	20.72	20.92	20.80	21.6
1.4	16QAM	1	3	20.72	20.74	20.79	
1.4	16QAM	1	5	20.83	20.69	20.63	
1.4	16QAM	3	0	20.95	20.68	20.84	21.6
1.4	16QAM	3	1	20.63	20.77	20.69	
1.4	16QAM	3	3	20.73	20.69	20.58	
1.4	16QAM	6	0	20.74	20.79	20.56	21.6
1.4	64QAM	1	0	20.72	20.51	20.70	21.6
1.4	64QAM	1	3	20.63	20.52	20.59	
1.4	64QAM	1	5	20.68	20.76	20.73	
1.4	64QAM	3	0	20.81	20.91	20.92	21.6
1.4	64QAM	3	1	20.86	20.90	20.74	
1.4	64QAM	3	3	20.88	20.77	20.79	
1.4	64QAM	6	0	20.64	20.47	20.57	21.6
1.4	256QAM	1	0	19.72	19.80	19.48	20.6
1.4	256QAM	1	3	19.44	19.40	19.28	
1.4	256QAM	1	5	19.61	19.40	19.15	
1.4	256QAM	3	0	19.38	19.31	19.16	20.6
1.4	256QAM	3	1	19.36	19.34	19.28	
1.4	256QAM	3	3	19.12	19.25	19.40	
1.4	256QAM	6	0	19.18	19.28	19.36	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	19.01	19.04	19.05	20
20	QPSK	1	49	18.89	18.91	18.88	
20	QPSK	1	99	18.84	18.79	18.78	
20	QPSK	50	0	18.93	18.94	18.95	20
20	QPSK	50	24	18.93	18.93	18.88	
20	QPSK	50	50	18.89	18.86	18.85	
20	QPSK	100	0	18.90	18.92	18.93	
20	16QAM	1	0	18.97	19.03	19.01	20
20	16QAM	1	49	18.94	18.94	18.88	
20	16QAM	1	99	18.92	18.94	18.81	
20	16QAM	50	0	18.99	18.97	18.96	20
20	16QAM	50	24	18.94	18.92	18.91	
20	16QAM	50	50	18.87	18.90	18.87	
20	16QAM	100	0	18.92	18.92	18.90	
20	64QAM	1	0	18.96	18.92	18.89	20
20	64QAM	1	49	18.86	18.86	18.88	
20	64QAM	1	99	18.76	18.76	18.68	
20	64QAM	50	0	19.02	19.01	18.98	20
20	64QAM	50	24	18.98	18.96	18.93	
20	64QAM	50	50	18.90	18.90	18.87	
20	64QAM	100	0	18.93	18.92	18.90	
20	256QAM	1	0	18.76	18.75	18.86	20
20	256QAM	1	49	18.67	18.71	18.63	
20	256QAM	1	99	18.69	18.59	18.45	
20	256QAM	50	0	18.56	18.64	18.50	20
20	256QAM	50	24	18.60	18.53	18.49	
20	256QAM	50	50	18.50	18.46	18.57	
20	256QAM	100	0	18.58	18.45	18.63	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.95	18.91	18.87	20
15	QPSK	1	37	18.70	18.79	18.77	
15	QPSK	1	74	18.81	18.60	18.73	
15	QPSK	36	0	18.85	18.86	18.86	20
15	QPSK	36	20	18.81	18.91	18.87	
15	QPSK	36	39	18.78	18.86	18.81	
15	QPSK	75	0	18.85	18.74	18.82	
15	16QAM	1	0	18.93	18.95	18.97	20
15	16QAM	1	37	18.78	18.91	18.80	
15	16QAM	1	74	18.77	18.87	18.78	
15	16QAM	36	0	18.87	18.78	18.76	20
15	16QAM	36	20	18.88	18.80	18.74	
15	16QAM	36	39	18.82	18.84	18.77	
15	16QAM	75	0	18.83	18.78	18.89	
15	64QAM	1	0	18.90	18.75	18.76	20
15	64QAM	1	37	18.68	18.82	18.83	
15	64QAM	1	74	18.59	18.69	18.55	
15	64QAM	36	0	18.86	18.95	18.95	20
15	64QAM	36	20	18.92	18.84	18.92	
15	64QAM	36	39	18.72	18.80	18.75	
15	64QAM	75	0	18.88	18.83	18.76	
15	256QAM	1	0	18.76	18.62	18.82	20
15	256QAM	1	37	18.49	18.64	18.58	
15	256QAM	1	74	18.49	18.39	18.27	
15	256QAM	36	0	18.55	18.54	18.38	20
15	256QAM	36	20	18.48	18.50	18.40	



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15	256QAM	36	39	18.33	18.44	18.39	
15	256QAM	75	0	18.41	18.44	18.54	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.81	19.01	18.93	20
10	QPSK	1	25	18.76	18.74	18.80	
10	QPSK	1	49	18.67	18.61	18.58	
10	QPSK	25	0	18.82	18.87	18.87	20
10	QPSK	25	12	18.92	18.88	18.86	
10	QPSK	25	25	18.75	18.86	18.82	
10	QPSK	50	0	18.80	18.76	18.93	
10	16QAM	1	0	18.91	18.89	18.82	
10	16QAM	1	25	18.92	18.92	18.76	20
10	16QAM	1	49	18.75	18.82	18.81	
10	16QAM	25	0	18.81	18.89	18.80	20
10	16QAM	25	12	18.86	18.85	18.77	
10	16QAM	25	25	18.85	18.89	18.69	
10	16QAM	50	0	18.90	18.73	18.87	
10	64QAM	1	0	18.92	18.77	18.77	
10	64QAM	1	25	18.70	18.73	18.71	20
10	64QAM	1	49	18.66	18.70	18.62	
10	64QAM	25	0	18.82	18.92	18.89	
10	64QAM	25	12	18.89	18.82	18.84	20
10	64QAM	25	25	18.82	18.83	18.68	
10	64QAM	50	0	18.75	18.85	18.78	
10	256QAM	1	0	18.61	18.71	18.85	
10	256QAM	1	25	18.64	18.53	18.61	
10	256QAM	1	49	18.65	18.45	18.38	20
10	256QAM	25	0	18.42	18.51	18.30	
10	256QAM	25	12	18.58	18.46	18.43	
10	256QAM	25	25	18.41	18.30	18.38	
10	256QAM	50	0	18.54	18.45	18.51	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.00	18.85	19.02	20
5	QPSK	1	12	18.76	18.83	18.86	
5	QPSK	1	24	18.72	18.67	18.59	
5	QPSK	12	0	18.79	18.78	18.90	20
5	QPSK	12	7	18.90	18.74	18.70	
5	QPSK	12	13	18.82	18.83	18.73	
5	QPSK	25	0	18.82	18.74	18.89	
5	16QAM	1	0	18.91	18.98	18.97	
5	16QAM	1	12	18.76	18.78	18.76	20
5	16QAM	1	24	18.78	18.74	18.68	
5	16QAM	12	0	18.85	18.91	18.81	
5	16QAM	12	7	18.85	18.79	18.80	20
5	16QAM	12	13	18.86	18.81	18.80	
5	16QAM	25	0	18.85	18.91	18.80	
5	64QAM	1	0	18.85	18.73	18.72	
5	64QAM	1	12	18.71	18.68	18.70	
5	64QAM	1	24	18.73	18.65	18.55	20
5	64QAM	12	0	19.02	18.89	18.80	
5	64QAM	12	7	18.82	18.84	18.82	
5	64QAM	12	13	18.77	18.78	18.86	
5	64QAM	25	0	18.74	18.89	18.83	
5	256QAM	1	0	18.75	18.70	18.68	20
5	256QAM	1	12	18.67	18.55	18.44	
5	256QAM	1	24	18.58	18.44	18.40	
5	256QAM	12	0	18.47	18.60	18.44	
5	256QAM	12	7	18.49	18.34	18.41	
5	256QAM	12	13	18.38	18.45	18.48	20
5	256QAM	25	0	18.48	18.34	18.46	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	18.95	19.04	19.03	20
3	QPSK	1	8	18.70	18.85	18.80	
3	QPSK	1	14	18.78	18.67	18.76	
3	QPSK	8	0	18.86	18.82	18.76	20
3	QPSK	8	4	18.75	18.85	18.79	
3	QPSK	8	7	18.82	18.74	18.74	
3	QPSK	15	0	18.71	18.87	18.84	20
3	16QAM	1	0	18.88	19.02	18.99	
3	16QAM	1	8	18.91	18.75	18.79	
3	16QAM	1	14	18.73	18.75	18.78	20
3	16QAM	8	0	18.92	18.78	18.96	
3	16QAM	8	4	18.90	18.77	18.91	
3	16QAM	8	7	18.75	18.88	18.85	20
3	16QAM	15	0	18.87	18.84	18.70	
3	64QAM	1	0	18.77	18.81	18.83	
3	64QAM	1	8	18.71	18.86	18.83	20
3	64QAM	1	14	18.74	18.75	18.58	
3	64QAM	8	0	18.91	18.94	18.80	
3	64QAM	8	4	18.95	18.76	18.89	20
3	64QAM	8	7	18.83	18.87	18.71	
3	64QAM	15	0	18.76	18.83	18.74	
3	256QAM	1	0	18.57	18.57	18.79	20
3	256QAM	1	8	18.64	18.61	18.62	
3	256QAM	1	14	18.64	18.51	18.44	
3	256QAM	8	0	18.37	18.57	18.47	20
3	256QAM	8	4	18.51	18.39	18.38	
3	256QAM	8	7	18.37	18.41	18.53	
3	256QAM	15	0	18.53	18.29	18.56	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.89	18.89	18.91	20
1.4	QPSK	1	3	18.85	18.81	18.76	
1.4	QPSK	1	5	18.71	18.72	18.66	
1.4	QPSK	3	0	18.79	18.93	18.77	20
1.4	QPSK	3	1	18.88	18.88	18.69	
1.4	QPSK	3	3	18.80	18.74	18.82	
1.4	QPSK	6	0	18.75	18.84	18.91	20
1.4	16QAM	1	0	18.88	18.83	18.94	20
1.4	16QAM	1	3	18.76	18.74	18.74	
1.4	16QAM	1	5	18.76	18.81	18.63	
1.4	16QAM	3	0	18.86	18.89	18.94	20
1.4	16QAM	3	1	18.84	18.82	18.86	
1.4	16QAM	3	3	18.71	18.78	18.86	
1.4	16QAM	6	0	18.77	18.83	18.87	20
1.4	64QAM	1	0	18.81	18.84	18.83	20
1.4	64QAM	1	3	18.76	18.70	18.81	
1.4	64QAM	1	5	18.56	18.75	18.53	
1.4	64QAM	3	0	18.96	18.99	18.83	20
1.4	64QAM	3	1	18.95	18.79	18.91	
1.4	64QAM	3	3	18.73	18.72	18.84	
1.4	64QAM	6	0	18.86	18.92	18.77	20
1.4	256QAM	1	0	18.61	18.69	18.67	20
1.4	256QAM	1	3	18.54	18.61	18.60	
1.4	256QAM	1	5	18.64	18.41	18.39	
1.4	256QAM	3	0	18.39	18.54	18.37	20
1.4	256QAM	3	1	18.59	18.36	18.35	
1.4	256QAM	3	3	18.34	18.42	18.52	
1.4	256QAM	6	0	18.48	18.40	18.45	20



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.11	19.12	19.11	20.2
20	QPSK	1	49	19.01	19.00	19.01	
20	QPSK	1	99	18.95	18.92	18.87	
20	QPSK	50	0	19.06	19.09	19.06	20.2
20	QPSK	50	24	19.01	19.05	18.99	
20	QPSK	50	50	18.95	19.02	18.96	
20	QPSK	100	0	19.00	19.03	18.99	20.2
20	16QAM	1	0	19.10	19.07	19.10	
20	16QAM	1	49	18.88	18.91	18.87	
20	16QAM	1	99	18.92	18.91	18.84	20.2
20	16QAM	50	0	18.67	18.66	18.65	
20	16QAM	50	24	18.61	18.63	18.59	
20	16QAM	50	50	18.56	18.57	18.57	20.2
20	16QAM	100	0	18.66	18.63	18.61	
20	64QAM	1	0	18.88	18.88	18.93	
20	64QAM	1	49	18.83	18.88	18.88	20.2
20	64QAM	1	99	18.84	18.75	18.77	
20	64QAM	50	0	18.65	18.68	18.65	
20	64QAM	50	24	18.61	18.62	18.63	20.2
20	64QAM	50	50	18.55	18.57	18.57	
20	64QAM	100	0	18.64	18.64	18.61	
20	256QAM	1	0	18.96	18.99	18.82	20.2
20	256QAM	1	49	18.81	18.80	18.94	
20	256QAM	1	99	18.76	18.76	18.76	
20	256QAM	50	0	18.73	18.64	18.57	20.2
20	256QAM	50	24	18.66	18.77	18.61	
20	256QAM	50	50	18.46	18.67	18.62	
20	256QAM	100	0	18.52	18.75	18.73	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.09	18.92	18.98	20.2
15	QPSK	1	37	18.83	18.84	19.01	
15	QPSK	1	74	18.82	18.75	18.82	
15	QPSK	36	0	18.96	18.94	19.02	20.2
15	QPSK	36	20	18.81	18.99	18.81	
15	QPSK	36	39	18.90	18.95	18.88	
15	QPSK	75	0	18.99	18.93	18.90	20.2
15	16QAM	1	0	18.98	18.98	19.04	
15	16QAM	1	37	18.88	18.86	18.74	
15	16QAM	1	74	18.89	18.84	18.65	20.2
15	16QAM	36	0	18.67	18.52	18.49	
15	16QAM	36	20	18.48	18.54	18.41	
15	16QAM	36	39	18.47	18.40	18.57	20.2
15	16QAM	75	0	18.65	18.47	18.52	
15	64QAM	1	0	18.77	18.88	18.79	
15	64QAM	1	37	18.68	18.80	18.86	20.2
15	64QAM	1	74	18.77	18.71	18.63	
15	64QAM	36	0	18.54	18.60	18.64	
15	64QAM	36	20	18.43	18.58	18.62	20.2
15	64QAM	36	39	18.49	18.42	18.57	
15	64QAM	75	0	18.63	18.50	18.44	
15	256QAM	1	0	18.78	18.81	18.80	20.2
15	256QAM	1	37	18.79	18.81	18.88	
15	256QAM	1	74	18.69	18.65	18.65	
15	256QAM	36	0	18.58	18.60	18.52	20.2
15	256QAM	36	20	18.62	18.65	18.49	



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15	256QAM	36	39	18.39	18.63	18.54	
15	256QAM	75	0	18.43	18.62	18.52	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.06	18.98	19.01	20.2
10	QPSK	1	25	18.84	18.82	18.84	
10	QPSK	1	49	18.79	18.79	18.70	
10	QPSK	25	0	18.98	19.04	19.04	20.2
10	QPSK	25	12	18.91	18.97	18.82	
10	QPSK	25	25	18.91	18.82	18.94	
10	QPSK	50	0	18.88	18.88	18.93	
10	16QAM	1	0	18.99	18.92	19.04	20.2
10	16QAM	1	25	18.80	18.91	18.73	
10	16QAM	1	49	18.82	18.84	18.78	
10	16QAM	25	0	18.55	18.59	18.62	20.2
10	16QAM	25	12	18.61	18.51	18.56	
10	16QAM	25	25	18.55	18.52	18.37	
10	16QAM	50	0	18.66	18.47	18.51	
10	64QAM	1	0	18.75	18.69	18.82	20.2
10	64QAM	1	25	18.79	18.81	18.82	
10	64QAM	1	49	18.78	18.75	18.64	
10	64QAM	25	0	18.60	18.64	18.57	20.2
10	64QAM	25	12	18.50	18.44	18.55	
10	64QAM	25	25	18.39	18.37	18.48	
10	64QAM	50	0	18.49	18.54	18.44	
10	256QAM	1	0	18.82	18.82	18.62	20.2
10	256QAM	1	25	18.67	18.80	18.88	
10	256QAM	1	49	18.82	18.67	18.57	
10	256QAM	25	0	18.63	18.39	18.54	20.2
10	256QAM	25	12	18.61	18.64	18.55	
10	256QAM	25	25	18.39	18.63	18.61	
10	256QAM	50	0	18.27	18.52	18.70	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.07	18.97	19.05	20.2
5	QPSK	1	12	18.94	18.80	18.89	
5	QPSK	1	24	18.91	18.76	18.81	
5	QPSK	12	0	18.86	18.99	19.05	20.2
5	QPSK	12	7	18.93	19.05	18.88	
5	QPSK	12	13	18.95	18.89	18.85	
5	QPSK	25	0	18.92	18.94	18.80	
5	16QAM	1	0	18.96	19.06	18.95	20.2
5	16QAM	1	12	18.73	18.81	18.76	
5	16QAM	1	24	18.87	18.71	18.84	
5	16QAM	12	0	18.48	18.65	18.48	20.2
5	16QAM	12	7	18.51	18.59	18.46	
5	16QAM	12	13	18.43	18.44	18.51	
5	16QAM	25	0	18.53	18.49	18.53	
5	64QAM	1	0	18.71	18.69	18.85	20.2
5	64QAM	1	12	18.83	18.78	18.72	
5	64QAM	1	24	18.84	18.69	18.76	
5	64QAM	12	0	18.54	18.65	18.50	20.2
5	64QAM	12	7	18.42	18.45	18.51	
5	64QAM	12	13	18.44	18.57	18.48	
5	64QAM	25	0	18.47	18.45	18.50	
5	256QAM	1	0	18.77	18.80	18.81	20.2
5	256QAM	1	12	18.72	18.69	18.78	
5	256QAM	1	24	18.55	18.55	18.68	
5	256QAM	12	0	18.55	18.44	18.54	20.2
5	256QAM	12	7	18.67	18.74	18.52	
5	256QAM	12	13	18.24	18.65	18.39	
5	256QAM	25	0	18.44	18.76	18.64	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	19.05	19.06	18.93	20.2
3	QPSK	1	8	18.85	18.85	18.90	
3	QPSK	1	14	18.89	18.81	18.75	
3	QPSK	8	0	19.06	18.96	19.02	20.2
3	QPSK	8	4	18.89	19.03	18.91	
3	QPSK	8	7	18.94	18.82	18.96	
3	QPSK	15	0	18.98	18.91	18.97	20.2
3	16QAM	1	0	19.10	19.04	19.02	
3	16QAM	1	8	18.72	18.78	18.87	
3	16QAM	1	14	18.91	18.88	18.68	20.2
3	16QAM	8	0	18.62	18.59	18.60	
3	16QAM	8	4	18.48	18.47	18.54	
3	16QAM	8	7	18.51	18.39	18.57	20.2
3	16QAM	15	0	18.47	18.60	18.41	
3	64QAM	1	0	18.80	18.88	18.87	
3	64QAM	1	8	18.71	18.78	18.70	20.2
3	64QAM	1	14	18.72	18.68	18.63	
3	64QAM	8	0	18.46	18.52	18.49	
3	64QAM	8	4	18.60	18.58	18.51	20.2
3	64QAM	8	7	18.35	18.54	18.41	
3	64QAM	15	0	18.61	18.48	18.41	
3	256QAM	1	0	18.82	18.87	18.69	20.2
3	256QAM	1	8	18.74	18.73	18.88	
3	256QAM	1	14	18.74	18.64	18.70	
3	256QAM	8	0	18.53	18.56	18.46	20.2
3	256QAM	8	4	18.54	18.70	18.62	
3	256QAM	8	7	18.40	18.68	18.47	
3	256QAM	15	0	18.39	18.65	18.56	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.06	18.98	19.00	20.2
1.4	QPSK	1	3	19.00	18.98	18.90	
1.4	QPSK	1	5	18.94	18.75	18.86	
1.4	QPSK	3	0	18.96	19.04	18.86	20.2
1.4	QPSK	3	1	18.83	18.87	18.81	
1.4	QPSK	3	3	18.75	18.83	18.77	
1.4	QPSK	6	0	18.93	18.94	18.79	20.2
1.4	16QAM	1	0	19.02	18.99	18.90	
1.4	16QAM	1	3	18.84	18.81	18.68	
1.4	16QAM	1	5	18.87	18.87	18.66	20.2
1.4	16QAM	3	0	18.54	18.63	18.58	
1.4	16QAM	3	1	18.53	18.48	18.39	
1.4	16QAM	3	3	18.53	18.43	18.39	20.2
1.4	16QAM	6	0	18.64	18.50	18.59	
1.4	64QAM	1	0	18.88	18.73	18.93	
1.4	64QAM	1	3	18.70	18.84	18.86	20.2
1.4	64QAM	1	5	18.76	18.75	18.77	
1.4	64QAM	3	0	18.63	18.63	18.64	
1.4	64QAM	3	1	18.60	18.48	18.60	20.2
1.4	64QAM	3	3	18.41	18.38	18.56	
1.4	64QAM	6	0	18.48	18.45	18.46	
1.4	256QAM	1	0	18.93	18.88	18.72	20.2
1.4	256QAM	1	3	18.77	18.83	18.86	
1.4	256QAM	1	5	18.79	18.61	18.73	
1.4	256QAM	3	0	18.55	18.58	18.43	20.2
1.4	256QAM	3	1	18.46	18.61	18.64	
1.4	256QAM	3	3	18.36	18.50	18.50	
1.4	256QAM	6	0	18.34	18.55	18.58	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	19.16	19.20	19.17	20.2
20	QPSK	1	49	18.98	19.04	19.02	
20	QPSK	1	99	18.98	18.97	18.93	
20	QPSK	50	0	19.15	19.16	19.15	20.2
20	QPSK	50	24	19.11	19.12	19.12	
20	QPSK	50	50	19.09	19.06	19.05	
20	QPSK	100	0	19.12	19.13	19.12	
20	16QAM	1	0	19.10	19.02	19.06	20.2
20	16QAM	1	49	18.92	18.94	18.85	
20	16QAM	1	99	18.85	18.91	18.89	
20	16QAM	50	0	19.15	19.16	19.16	20.2
20	16QAM	50	24	19.09	19.13	19.09	
20	16QAM	50	50	19.05	19.08	19.05	
20	16QAM	100	0	19.11	19.13	19.08	
20	64QAM	1	0	19.03	19.00	19.09	20.2
20	64QAM	1	49	18.85	18.86	18.81	
20	64QAM	1	99	18.77	18.79	18.85	
20	64QAM	50	0	19.19	19.17	19.13	20.2
20	64QAM	50	24	19.12	19.13	19.10	
20	64QAM	50	50	19.06	19.08	19.03	
20	64QAM	100	0	19.12	19.10	19.10	
20	256QAM	1	0	19.04	18.93	19.10	20.2
20	256QAM	1	49	18.82	18.89	18.82	
20	256QAM	1	99	18.62	18.94	18.74	
20	256QAM	50	0	18.64	18.72	18.64	20.2
20	256QAM	50	24	18.62	18.59	18.72	
20	256QAM	50	50	18.59	18.61	18.62	
20	256QAM	100	0	18.66	18.61	18.67	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.99	19.12	19.11	20.2
15	QPSK	1	37	18.90	18.85	19.00	
15	QPSK	1	74	18.85	18.77	18.92	
15	QPSK	36	0	19.15	18.98	19.12	20.2
15	QPSK	36	20	18.99	18.92	18.93	
15	QPSK	36	39	19.00	19.05	19.01	
15	QPSK	75	0	19.03	19.13	19.06	
15	16QAM	1	0	18.95	19.02	19.05	20.2
15	16QAM	1	37	18.73	18.84	18.82	
15	16QAM	1	74	18.78	18.81	18.70	
15	16QAM	36	0	19.13	19.08	19.07	20.2
15	16QAM	36	20	18.92	19.13	18.95	
15	16QAM	36	39	18.92	18.99	18.99	
15	16QAM	75	0	18.91	19.09	19.01	
15	64QAM	1	0	18.98	18.83	18.91	20.2
15	64QAM	1	37	18.78	18.79	18.67	
15	64QAM	1	74	18.60	18.67	18.67	
15	64QAM	36	0	18.99	19.11	19.04	20.2
15	64QAM	36	20	19.09	18.97	18.96	
15	64QAM	36	39	18.97	18.93	18.95	
15	64QAM	75	0	18.98	19.01	19.01	
15	256QAM	1	0	18.90	18.78	19.07	20.2
15	256QAM	1	37	18.67	18.82	18.65	
15	256QAM	1	74	18.54	18.83	18.62	
15	256QAM	36	0	18.57	18.62	18.48	20.2
15	256QAM	36	20	18.53	18.40	18.65	



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15	256QAM	36	39	18.54	18.47	18.42	
15	256QAM	75	0	18.54	18.51	18.63	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.07	19.13	19.17	20.2
10	QPSK	1	25	18.86	18.95	18.94	
10	QPSK	1	49	18.90	18.89	18.89	
10	QPSK	25	0	19.02	19.10	19.13	20.2
10	QPSK	25	12	18.92	18.93	19.11	
10	QPSK	25	25	19.07	19.00	18.85	
10	QPSK	50	0	18.97	19.06	19.08	
10	16QAM	1	0	18.91	18.93	18.93	
10	16QAM	1	25	18.80	18.78	18.73	20.2
10	16QAM	1	49	18.83	18.80	18.76	
10	16QAM	25	0	19.02	19.14	19.07	20.2
10	16QAM	25	12	18.94	19.09	19.00	
10	16QAM	25	25	18.91	18.96	18.89	
10	16QAM	50	0	18.97	19.00	19.06	
10	64QAM	1	0	18.85	18.89	19.07	
10	64QAM	1	25	18.65	18.73	18.81	20.2
10	64QAM	1	49	18.75	18.78	18.80	
10	64QAM	25	0	19.11	19.00	19.12	
10	64QAM	25	12	18.94	19.01	19.09	20.2
10	64QAM	25	25	18.91	18.89	18.94	
10	64QAM	50	0	19.11	19.06	18.96	
10	256QAM	1	0	19.03	18.92	18.93	
10	256QAM	1	25	18.68	18.86	18.66	
10	256QAM	1	49	18.45	18.79	18.68	20.2
10	256QAM	25	0	18.50	18.58	18.46	
10	256QAM	25	12	18.50	18.49	18.59	
10	256QAM	25	25	18.40	18.59	18.56	
10	256QAM	50	0	18.54	18.59	18.48	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.09	19.09	19.12	20.2
5	QPSK	1	12	18.97	18.96	18.96	
5	QPSK	1	24	18.90	18.77	18.78	
5	QPSK	12	0	19.11	19.06	19.10	20.2
5	QPSK	12	7	18.91	18.93	18.92	
5	QPSK	12	13	19.07	18.97	19.04	
5	QPSK	25	0	19.04	19.04	18.94	
5	16QAM	1	0	19.07	18.83	19.04	
5	16QAM	1	12	18.77	18.92	18.68	20.2
5	16QAM	1	24	18.79	18.82	18.77	
5	16QAM	12	0	18.95	19.12	19.16	
5	16QAM	12	7	18.94	18.93	18.93	20.2
5	16QAM	12	13	19.01	19.00	18.90	
5	16QAM	25	0	19.11	19.00	19.02	
5	64QAM	1	0	18.92	18.81	19.02	
5	64QAM	1	12	18.67	18.71	18.80	
5	64QAM	1	24	18.69	18.76	18.74	20.2
5	64QAM	12	0	19.12	19.17	19.09	
5	64QAM	12	7	19.11	19.06	18.91	
5	64QAM	12	13	19.04	18.92	18.91	20.2
5	64QAM	25	0	19.11	18.93	18.95	
5	256QAM	1	0	18.95	18.90	19.05	
5	256QAM	1	12	18.67	18.87	18.78	
5	256QAM	1	24	18.45	18.89	18.69	
5	256QAM	12	0	18.52	18.56	18.52	20.2
5	256QAM	12	7	18.53	18.48	18.63	
5	256QAM	12	13	18.41	18.44	18.59	
5	256QAM	25	0	18.46	18.54	18.47	
Channel				131987	132322	132657	



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	19.02	19.18	19.13	20.2
3	QPSK	1	8	18.88	18.84	18.95	
3	QPSK	1	14	18.85	18.84	18.85	
3	QPSK	8	0	19.12	19.11	19.10	20.2
3	QPSK	8	4	19.02	19.12	19.00	
3	QPSK	8	7	18.95	18.99	18.94	
3	QPSK	15	0	19.03	19.06	19.04	20.2
3	16QAM	1	0	19.03	18.99	18.86	
3	16QAM	1	8	18.82	18.75	18.69	
3	16QAM	1	14	18.65	18.89	18.83	20.2
3	16QAM	8	0	18.95	19.07	19.07	
3	16QAM	8	4	18.98	18.95	18.93	
3	16QAM	8	7	18.99	18.99	19.00	20.2
3	16QAM	15	0	18.94	19.05	18.93	
3	64QAM	1	0	19.01	18.88	18.94	
3	64QAM	1	8	18.82	18.85	18.74	20.2
3	64QAM	1	14	18.74	18.71	18.68	
3	64QAM	8	0	19.03	19.05	19.09	
3	64QAM	8	4	19.11	18.95	18.92	20.2
3	64QAM	8	7	19.03	19.01	19.02	
3	64QAM	15	0	19.11	19.05	18.93	
3	256QAM	1	0	18.93	18.78	19.00	20.2
3	256QAM	1	8	18.73	18.80	18.82	
3	256QAM	1	14	18.62	18.81	18.71	
3	256QAM	8	0	18.62	18.53	18.58	20.2
3	256QAM	8	4	18.48	18.45	18.55	
3	256QAM	8	7	18.42	18.44	18.55	
3	256QAM	15	0	18.50	18.49	18.59	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.10	19.01	19.12	20.2
1.4	QPSK	1	3	18.88	19.01	18.91	
1.4	QPSK	1	5	18.84	18.89	18.73	
1.4	QPSK	3	0	19.12	19.16	19.11	20.2
1.4	QPSK	3	1	19.03	19.10	19.12	
1.4	QPSK	3	3	18.90	18.92	18.89	
1.4	QPSK	6	0	19.10	19.00	18.94	20.2
1.4	16QAM	1	0	18.91	18.90	18.96	20.2
1.4	16QAM	1	3	18.76	18.80	18.79	
1.4	16QAM	1	5	18.65	18.90	18.80	
1.4	16QAM	3	0	18.95	19.12	19.13	20.2
1.4	16QAM	3	1	18.98	18.97	18.89	
1.4	16QAM	3	3	18.97	18.95	18.90	
1.4	16QAM	6	0	19.05	19.09	18.89	20.2
1.4	64QAM	1	0	18.96	18.87	19.01	20.2
1.4	64QAM	1	3	18.70	18.66	18.68	
1.4	64QAM	1	5	18.73	18.79	18.79	
1.4	64QAM	3	0	19.10	18.97	19.08	20.2
1.4	64QAM	3	1	18.93	19.07	19.06	
1.4	64QAM	3	3	18.94	18.92	18.94	
1.4	64QAM	6	0	19.04	19.06	19.01	20.2
1.4	256QAM	1	0	19.04	18.83	18.94	20.2
1.4	256QAM	1	3	18.66	18.76	18.82	
1.4	256QAM	1	5	18.59	18.79	18.67	
1.4	256QAM	3	0	18.61	18.65	18.64	20.2
1.4	256QAM	3	1	18.53	18.45	18.67	
1.4	256QAM	3	3	18.44	18.46	18.61	
1.4	256QAM	6	0	18.57	18.55	18.65	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	20.95	20.94	20.96	22.4
20	20.73	20.81	20.81	
20	20.85	20.75	20.76	
20	20.94	20.94	20.95	22.4
20	20.90	20.93	20.89	
20	20.90	20.78	20.67	
20	20.92	20.85	20.93	22.4
20	20.73	20.71	20.83	
20	20.76	20.51	20.76	
20	20.67	20.56	20.45	22.4
20	20.82	20.82	20.72	
20	20.71	20.77	20.68	
20	20.74	20.75	20.65	22.4
20	20.74	20.84	20.76	
20	20.83	20.86	20.91	
20	20.80	20.82	20.88	22.4
20	20.80	20.81	20.74	
20	20.67	20.81	20.75	
20	20.78	20.61	20.63	22.4
20	20.78	20.69	20.70	
20	20.56	20.69	20.70	
20	20.78	20.67	20.64	20.6
20	19.72	19.76	19.55	
20	19.57	19.57	19.55	
20	19.49	19.57	19.40	20.6
20	19.47	19.50	19.35	
20	19.41	19.38	19.45	
20	19.34	19.46	19.38	20.6
20	19.31	19.26	19.25	
132047	132322	132597		
1717.5	1745	1772.5		
15	20.86	20.84	20.92	22.4
15	20.89	20.59	20.80	
15	20.77	20.62	20.61	
15	20.89	20.65	20.90	22.4
15	20.78	20.70	20.66	
15	20.61	20.56	20.65	
15	20.83	20.73	20.68	22.4
15	20.83	20.59	20.75	
15	20.68	20.46	20.50	
15	20.42	20.42	20.44	22.4
15	20.83	20.76	20.66	
15	20.79	20.81	20.64	
15	20.79	20.81	20.64	22.4
15	20.75	20.80	20.71	
15	20.81	20.70	20.62	
15	20.86	20.87	20.85	22.4
15	20.86	20.66	20.88	
15	20.84	20.79	20.73	
15	20.71	20.68	20.52	22.4
15	20.71	20.68	20.52	
15	20.52	20.45	20.59	
15	20.58	20.41	20.53	20.6
15	20.56	20.46	20.53	
15	19.65	19.66	19.49	
15	19.62	19.27	19.45	20.6
15	19.39	19.42	19.18	
15	19.50	19.27	19.18	
15	19.38	19.29	19.35	20.6



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15	256QAM	36	39	19.11	19.33	19.19	
15	256QAM	75	0	19.28	19.33	19.17	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.95	20.90	20.72	22.4
10	QPSK	1	25	20.65	20.63	20.77	
10	QPSK	1	49	20.54	20.64	20.44	
10	QPSK	25	0	20.89	20.85	20.82	22.4
10	QPSK	25	12	20.75	20.64	20.84	
10	QPSK	25	25	20.72	20.62	20.68	
10	QPSK	50	0	20.81	20.61	20.73	
10	16QAM	1	0	20.76	20.62	20.51	22.4
10	16QAM	1	25	20.57	20.46	20.41	
10	16QAM	1	49	20.67	20.48	20.55	
10	16QAM	25	0	20.63	20.79	20.74	22.4
10	16QAM	25	12	20.62	20.65	20.69	
10	16QAM	25	25	20.75	20.63	20.49	
10	16QAM	50	0	20.69	20.70	20.72	
10	64QAM	1	0	20.84	20.85	20.87	22.4
10	64QAM	1	25	20.93	20.86	20.72	
10	64QAM	1	49	20.96	20.83	20.62	
10	64QAM	25	0	20.70	20.54	20.61	22.4
10	64QAM	25	12	20.62	20.75	20.55	
10	64QAM	25	25	20.59	20.49	20.49	
10	64QAM	50	0	20.65	20.45	20.59	
10	256QAM	1	0	19.68	19.53	19.37	20.6
10	256QAM	1	25	19.48	19.35	19.30	
10	256QAM	1	49	19.42	19.58	19.15	
10	256QAM	25	0	19.38	19.31	19.37	20.6
10	256QAM	25	12	19.26	19.28	19.22	
10	256QAM	25	25	19.29	19.30	19.18	
10	256QAM	50	0	19.32	19.15	19.11	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.93	20.91	20.71	22.4
5	QPSK	1	12	20.58	20.73	20.66	
5	QPSK	1	24	20.73	20.71	20.61	
5	QPSK	12	0	20.80	20.72	20.85	22.4
5	QPSK	12	7	20.80	20.79	20.80	
5	QPSK	12	13	20.73	20.72	20.58	
5	QPSK	25	0	20.83	20.66	20.64	
5	16QAM	1	0	20.81	20.59	20.63	22.4
5	16QAM	1	12	20.58	20.48	20.48	
5	16QAM	1	24	20.68	20.46	20.42	
5	16QAM	12	0	20.90	20.84	20.60	22.4
5	16QAM	12	7	20.72	20.75	20.59	
5	16QAM	12	13	20.74	20.54	20.54	
5	16QAM	25	0	20.60	20.74	20.64	
5	64QAM	1	0	20.94	20.82	20.91	22.4
5	64QAM	1	12	20.73	20.84	20.87	
5	64QAM	1	24	20.84	20.85	20.68	
5	64QAM	12	0	20.79	20.70	20.59	22.4
5	64QAM	12	7	20.50	20.52	20.59	
5	64QAM	12	13	20.50	20.55	20.50	
5	64QAM	25	0	20.70	20.69	20.49	
5	256QAM	1	0	19.78	19.60	19.53	20.6
5	256QAM	1	12	19.40	19.36	19.22	
5	256QAM	1	24	19.52	19.33	19.29	
5	256QAM	12	0	19.41	19.29	19.25	20.6
5	256QAM	12	7	19.31	19.36	19.23	
5	256QAM	12	13	19.24	19.12	19.25	
5	256QAM	25	0	19.15	19.22	19.15	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.88	20.88	20.92	22.4
3	QPSK	1	8	20.63	20.88	20.56	
3	QPSK	1	14	20.73	20.69	20.70	
3	QPSK	8	0	20.95	20.82	20.87	22.4
3	QPSK	8	4	20.76	20.59	20.75	
3	QPSK	8	7	20.67	20.81	20.75	
3	QPSK	15	0	20.77	20.74	20.68	22.4
3	16QAM	1	0	20.87	20.72	20.61	
3	16QAM	1	8	20.58	20.64	20.56	
3	16QAM	1	14	20.62	20.59	20.48	22.4
3	16QAM	8	0	20.67	20.67	20.50	
3	16QAM	8	4	20.58	20.51	20.70	
3	16QAM	8	7	20.65	20.61	20.52	22.4
3	16QAM	15	0	20.54	20.74	20.83	
3	64QAM	1	0	20.89	20.86	20.94	
3	64QAM	1	8	20.88	20.75	20.92	22.4
3	64QAM	1	14	20.82	20.78	20.57	
3	64QAM	8	0	20.59	20.50	20.50	
3	64QAM	8	4	20.72	20.73	20.46	22.4
3	64QAM	8	7	20.49	20.43	20.63	
3	64QAM	15	0	20.53	20.46	20.41	
3	256QAM	1	0	19.65	19.58	19.46	20.6
3	256QAM	1	8	19.43	19.29	19.35	
3	256QAM	1	14	19.37	19.44	19.18	
3	256QAM	8	0	19.27	19.23	19.35	20.6
3	256QAM	8	4	19.42	19.30	19.41	
3	256QAM	8	7	19.34	19.19	19.24	
3	256QAM	15	0	19.34	19.22	19.16	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.80	20.88	20.84	22.4
1.4	QPSK	1	3	20.81	20.53	20.62	
1.4	QPSK	1	5	20.73	20.58	20.61	
1.4	QPSK	3	0	20.89	20.83	20.96	22.4
1.4	QPSK	3	1	20.66	20.84	20.59	
1.4	QPSK	3	3	20.56	20.70	20.43	
1.4	QPSK	6	0	20.72	20.70	20.90	22.4
1.4	16QAM	1	0	20.72	20.92	20.80	22.4
1.4	16QAM	1	3	20.72	20.74	20.79	
1.4	16QAM	1	5	20.83	20.69	20.63	
1.4	16QAM	3	0	20.95	20.68	20.84	22.4
1.4	16QAM	3	1	20.63	20.77	20.69	
1.4	16QAM	3	3	20.73	20.69	20.58	
1.4	16QAM	6	0	20.74	20.79	20.56	22.4
1.4	64QAM	1	0	20.72	20.51	20.70	22.4
1.4	64QAM	1	3	20.63	20.52	20.59	
1.4	64QAM	1	5	20.68	20.76	20.73	
1.4	64QAM	3	0	20.81	20.91	20.92	22.4
1.4	64QAM	3	1	20.86	20.90	20.74	
1.4	64QAM	3	3	20.88	20.77	20.79	
1.4	64QAM	6	0	20.64	20.47	20.57	22.4
1.4	256QAM	1	0	19.72	19.80	19.48	20.6
1.4	256QAM	1	3	19.44	19.40	19.28	
1.4	256QAM	1	5	19.61	19.40	19.15	
1.4	256QAM	3	0	19.38	19.31	19.16	20.6
1.4	256QAM	3	1	19.36	19.34	19.28	
1.4	256QAM	3	3	19.12	19.25	19.40	
1.4	256QAM	6	0	19.18	19.28	19.36	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	19.01	19.04	19.05	19.2
20	QPSK	1	49	18.89	18.91	18.88	
20	QPSK	1	99	18.84	18.79	18.78	
20	QPSK	50	0	18.93	18.94	18.95	19.2
20	QPSK	50	24	18.93	18.93	18.88	
20	QPSK	50	50	18.89	18.86	18.85	
20	QPSK	100	0	18.90	18.92	18.93	
20	16QAM	1	0	18.97	19.03	19.01	19.2
20	16QAM	1	49	18.94	18.94	18.88	
20	16QAM	1	99	18.92	18.94	18.81	
20	16QAM	50	0	18.99	18.97	18.96	19.2
20	16QAM	50	24	18.94	18.92	18.91	
20	16QAM	50	50	18.87	18.90	18.87	
20	16QAM	100	0	18.92	18.92	18.90	
20	64QAM	1	0	18.96	18.92	18.89	19.2
20	64QAM	1	49	18.86	18.86	18.88	
20	64QAM	1	99	18.76	18.76	18.68	
20	64QAM	50	0	19.02	19.01	18.98	19.2
20	64QAM	50	24	18.98	18.96	18.93	
20	64QAM	50	50	18.90	18.90	18.87	
20	64QAM	100	0	18.93	18.92	18.90	
20	256QAM	1	0	18.76	18.75	18.86	19.2
20	256QAM	1	49	18.67	18.71	18.63	
20	256QAM	1	99	18.69	18.59	18.45	
20	256QAM	50	0	18.56	18.64	18.50	19.2
20	256QAM	50	24	18.60	18.53	18.49	
20	256QAM	50	50	18.50	18.46	18.57	
20	256QAM	100	0	18.58	18.45	18.63	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.95	18.91	18.87	19.2
15	QPSK	1	37	18.70	18.79	18.77	
15	QPSK	1	74	18.81	18.60	18.73	
15	QPSK	36	0	18.85	18.86	18.86	19.2
15	QPSK	36	20	18.81	18.91	18.87	
15	QPSK	36	39	18.78	18.86	18.81	
15	QPSK	75	0	18.85	18.74	18.82	
15	16QAM	1	0	18.93	18.95	18.97	19.2
15	16QAM	1	37	18.78	18.91	18.80	
15	16QAM	1	74	18.77	18.87	18.78	
15	16QAM	36	0	18.87	18.78	18.76	19.2
15	16QAM	36	20	18.88	18.80	18.74	
15	16QAM	36	39	18.82	18.84	18.77	
15	16QAM	75	0	18.83	18.78	18.89	
15	64QAM	1	0	18.90	18.75	18.76	19.2
15	64QAM	1	37	18.68	18.82	18.83	
15	64QAM	1	74	18.59	18.69	18.55	
15	64QAM	36	0	18.86	18.95	18.95	19.2
15	64QAM	36	20	18.92	18.84	18.92	
15	64QAM	36	39	18.72	18.80	18.75	
15	64QAM	75	0	18.88	18.83	18.76	
15	256QAM	1	0	18.76	18.62	18.82	19.2
15	256QAM	1	37	18.49	18.64	18.58	
15	256QAM	1	74	18.49	18.39	18.27	
15	256QAM	36	0	18.55	18.54	18.38	19.2
15	256QAM	36	20	18.48	18.50	18.40	



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15	256QAM	36	39	18.33	18.44	18.39	
15	256QAM	75	0	18.41	18.44	18.54	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.81	19.01	18.93	19.2
10	QPSK	1	25	18.76	18.74	18.80	
10	QPSK	1	49	18.67	18.61	18.58	
10	QPSK	25	0	18.82	18.87	18.87	19.2
10	QPSK	25	12	18.92	18.88	18.86	
10	QPSK	25	25	18.75	18.86	18.82	
10	QPSK	50	0	18.80	18.76	18.93	
10	16QAM	1	0	18.91	18.89	18.82	
10	16QAM	1	25	18.92	18.92	18.76	19.2
10	16QAM	1	49	18.75	18.82	18.81	
10	16QAM	25	0	18.81	18.89	18.80	19.2
10	16QAM	25	12	18.86	18.85	18.77	
10	16QAM	25	25	18.85	18.89	18.69	
10	16QAM	50	0	18.90	18.73	18.87	
10	64QAM	1	0	18.92	18.77	18.77	
10	64QAM	1	25	18.70	18.73	18.71	19.2
10	64QAM	1	49	18.66	18.70	18.62	
10	64QAM	25	0	18.82	18.92	18.89	
10	64QAM	25	12	18.89	18.82	18.84	19.2
10	64QAM	25	25	18.82	18.83	18.68	
10	64QAM	50	0	18.75	18.85	18.78	
10	256QAM	1	0	18.61	18.71	18.85	
10	256QAM	1	25	18.64	18.53	18.61	
10	256QAM	1	49	18.65	18.45	18.38	19.2
10	256QAM	25	0	18.42	18.51	18.30	
10	256QAM	25	12	18.58	18.46	18.43	
10	256QAM	25	25	18.41	18.30	18.38	
10	256QAM	50	0	18.54	18.45	18.51	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.00	18.85	19.02	19.2
5	QPSK	1	12	18.76	18.83	18.86	
5	QPSK	1	24	18.72	18.67	18.59	
5	QPSK	12	0	18.79	18.78	18.90	19.2
5	QPSK	12	7	18.90	18.74	18.70	
5	QPSK	12	13	18.82	18.83	18.73	
5	QPSK	25	0	18.82	18.74	18.89	
5	16QAM	1	0	18.91	18.98	18.97	
5	16QAM	1	12	18.76	18.78	18.76	19.2
5	16QAM	1	24	18.78	18.74	18.68	
5	16QAM	12	0	18.85	18.91	18.81	
5	16QAM	12	7	18.85	18.79	18.80	19.2
5	16QAM	12	13	18.86	18.81	18.80	
5	16QAM	25	0	18.85	18.91	18.80	
5	64QAM	1	0	18.85	18.73	18.72	
5	64QAM	1	12	18.71	18.68	18.70	
5	64QAM	1	24	18.73	18.65	18.55	19.2
5	64QAM	12	0	19.02	18.89	18.80	
5	64QAM	12	7	18.82	18.84	18.82	
5	64QAM	12	13	18.77	18.78	18.86	
5	64QAM	25	0	18.74	18.89	18.83	
5	256QAM	1	0	18.75	18.70	18.68	19.2
5	256QAM	1	12	18.67	18.55	18.44	
5	256QAM	1	24	18.58	18.44	18.40	
5	256QAM	12	0	18.47	18.60	18.44	
5	256QAM	12	7	18.49	18.34	18.41	
5	256QAM	12	13	18.38	18.45	18.48	19.2
5	256QAM	25	0	18.48	18.34	18.46	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	18.95	19.04	19.03	19.2
3	QPSK	1	8	18.70	18.85	18.80	
3	QPSK	1	14	18.78	18.67	18.76	
3	QPSK	8	0	18.86	18.82	18.76	19.2
3	QPSK	8	4	18.75	18.85	18.79	
3	QPSK	8	7	18.82	18.74	18.74	
3	QPSK	15	0	18.71	18.87	18.84	19.2
3	16QAM	1	0	18.88	19.02	18.99	
3	16QAM	1	8	18.91	18.75	18.79	
3	16QAM	1	14	18.73	18.75	18.78	19.2
3	16QAM	8	0	18.92	18.78	18.96	
3	16QAM	8	4	18.90	18.77	18.91	
3	16QAM	8	7	18.75	18.88	18.85	19.2
3	16QAM	15	0	18.87	18.84	18.70	
3	64QAM	1	0	18.77	18.81	18.83	
3	64QAM	1	8	18.71	18.86	18.83	19.2
3	64QAM	1	14	18.74	18.75	18.58	
3	64QAM	8	0	18.91	18.94	18.80	
3	64QAM	8	4	18.95	18.76	18.89	19.2
3	64QAM	8	7	18.83	18.87	18.71	
3	64QAM	15	0	18.76	18.83	18.74	
3	256QAM	1	0	18.57	18.57	18.79	19.2
3	256QAM	1	8	18.64	18.61	18.62	
3	256QAM	1	14	18.64	18.51	18.44	
3	256QAM	8	0	18.37	18.57	18.47	19.2
3	256QAM	8	4	18.51	18.39	18.38	
3	256QAM	8	7	18.37	18.41	18.53	
3	256QAM	15	0	18.53	18.29	18.56	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.89	18.89	18.91	19.2
1.4	QPSK	1	3	18.85	18.81	18.76	
1.4	QPSK	1	5	18.71	18.72	18.66	
1.4	QPSK	3	0	18.79	18.93	18.77	19.2
1.4	QPSK	3	1	18.88	18.88	18.69	
1.4	QPSK	3	3	18.80	18.74	18.82	
1.4	QPSK	6	0	18.75	18.84	18.91	19.2
1.4	16QAM	1	0	18.88	18.83	18.94	19.2
1.4	16QAM	1	3	18.76	18.74	18.74	
1.4	16QAM	1	5	18.76	18.81	18.63	
1.4	16QAM	3	0	18.86	18.89	18.94	19.2
1.4	16QAM	3	1	18.84	18.82	18.86	
1.4	16QAM	3	3	18.71	18.78	18.86	
1.4	16QAM	6	0	18.77	18.83	18.87	19.2
1.4	64QAM	1	0	18.81	18.84	18.83	19.2
1.4	64QAM	1	3	18.76	18.70	18.81	
1.4	64QAM	1	5	18.56	18.75	18.53	
1.4	64QAM	3	0	18.96	18.99	18.83	19.2
1.4	64QAM	3	1	18.95	18.79	18.91	
1.4	64QAM	3	3	18.73	18.72	18.84	
1.4	64QAM	6	0	18.86	18.92	18.77	19.2
1.4	256QAM	1	0	18.61	18.69	18.67	19.2
1.4	256QAM	1	3	18.54	18.61	18.60	
1.4	256QAM	1	5	18.64	18.41	18.39	
1.4	256QAM	3	0	18.39	18.54	18.37	19.2
1.4	256QAM	3	1	18.59	18.36	18.35	
1.4	256QAM	3	3	18.34	18.42	18.52	
1.4	256QAM	6	0	18.48	18.40	18.45	19.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.11	19.12	19.11	19.4
20	QPSK	1	49	19.01	19.00	19.01	
20	QPSK	1	99	18.95	18.92	18.87	
20	QPSK	50	0	19.06	19.09	19.06	19.4
20	QPSK	50	24	19.01	19.05	18.99	
20	QPSK	50	50	18.95	19.02	18.96	
20	QPSK	100	0	19.00	19.03	18.99	19.4
20	16QAM	1	0	19.10	19.07	19.10	
20	16QAM	1	49	18.88	18.91	18.87	
20	16QAM	1	99	18.92	18.91	18.84	19.4
20	16QAM	50	0	18.67	18.66	18.65	
20	16QAM	50	24	18.61	18.63	18.59	
20	16QAM	50	50	18.56	18.57	18.57	19.4
20	16QAM	100	0	18.66	18.63	18.61	
20	64QAM	1	0	18.88	18.88	18.93	
20	64QAM	1	49	18.83	18.88	18.88	19.4
20	64QAM	1	99	18.84	18.75	18.77	
20	64QAM	50	0	18.65	18.68	18.65	
20	64QAM	50	24	18.61	18.62	18.63	19.4
20	64QAM	50	50	18.55	18.57	18.57	
20	64QAM	100	0	18.64	18.64	18.61	
20	256QAM	1	0	18.96	18.99	18.82	19.4
20	256QAM	1	49	18.81	18.80	18.94	
20	256QAM	1	99	18.76	18.76	18.76	
20	256QAM	50	0	18.73	18.64	18.57	19.4
20	256QAM	50	24	18.66	18.77	18.61	
20	256QAM	50	50	18.46	18.67	18.62	
20	256QAM	100	0	18.52	18.75	18.73	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.09	18.92	18.98	19.4
15	QPSK	1	37	18.83	18.84	19.01	
15	QPSK	1	74	18.82	18.75	18.82	
15	QPSK	36	0	18.96	18.94	19.02	19.4
15	QPSK	36	20	18.81	18.99	18.81	
15	QPSK	36	39	18.90	18.95	18.88	
15	QPSK	75	0	18.99	18.93	18.90	19.4
15	16QAM	1	0	18.98	18.98	19.04	
15	16QAM	1	37	18.88	18.86	18.74	
15	16QAM	1	74	18.89	18.84	18.65	19.4
15	16QAM	36	0	18.67	18.52	18.49	
15	16QAM	36	20	18.48	18.54	18.41	
15	16QAM	36	39	18.47	18.40	18.57	19.4
15	16QAM	75	0	18.65	18.47	18.52	
15	64QAM	1	0	18.77	18.88	18.79	
15	64QAM	1	37	18.68	18.80	18.86	19.4
15	64QAM	1	74	18.77	18.71	18.63	
15	64QAM	36	0	18.54	18.60	18.64	
15	64QAM	36	20	18.43	18.58	18.62	19.4
15	64QAM	36	39	18.49	18.42	18.57	
15	64QAM	75	0	18.63	18.50	18.44	
15	256QAM	1	0	18.78	18.81	18.80	19.4
15	256QAM	1	37	18.79	18.81	18.88	
15	256QAM	1	74	18.69	18.65	18.65	
15	256QAM	36	0	18.58	18.60	18.52	19.4
15	256QAM	36	20	18.62	18.65	18.49	



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15	256QAM	36	39	18.39	18.63	18.54	
15	256QAM	75	0	18.43	18.62	18.52	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.06	18.98	19.01	19.4
10	QPSK	1	25	18.84	18.82	18.84	
10	QPSK	1	49	18.79	18.79	18.70	
10	QPSK	25	0	18.98	19.04	19.04	19.4
10	QPSK	25	12	18.91	18.97	18.82	
10	QPSK	25	25	18.91	18.82	18.94	
10	QPSK	50	0	18.88	18.88	18.93	
10	16QAM	1	0	18.99	18.92	19.04	19.4
10	16QAM	1	25	18.80	18.91	18.73	
10	16QAM	1	49	18.82	18.84	18.78	
10	16QAM	25	0	18.55	18.59	18.62	19.4
10	16QAM	25	12	18.61	18.51	18.56	
10	16QAM	25	25	18.55	18.52	18.37	
10	16QAM	50	0	18.66	18.47	18.51	
10	64QAM	1	0	18.75	18.69	18.82	19.4
10	64QAM	1	25	18.79	18.81	18.82	
10	64QAM	1	49	18.78	18.75	18.64	
10	64QAM	25	0	18.60	18.64	18.57	19.4
10	64QAM	25	12	18.50	18.44	18.55	
10	64QAM	25	25	18.39	18.37	18.48	
10	64QAM	50	0	18.49	18.54	18.44	
10	256QAM	1	0	18.82	18.82	18.62	19.4
10	256QAM	1	25	18.67	18.80	18.88	
10	256QAM	1	49	18.82	18.67	18.57	
10	256QAM	25	0	18.63	18.39	18.54	19.4
10	256QAM	25	12	18.61	18.64	18.55	
10	256QAM	25	25	18.39	18.63	18.61	
10	256QAM	50	0	18.27	18.52	18.70	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.07	18.97	19.05	19.4
5	QPSK	1	12	18.94	18.80	18.89	
5	QPSK	1	24	18.91	18.76	18.81	
5	QPSK	12	0	18.86	18.99	19.05	19.4
5	QPSK	12	7	18.93	19.05	18.88	
5	QPSK	12	13	18.95	18.89	18.85	
5	QPSK	25	0	18.92	18.94	18.80	
5	16QAM	1	0	18.96	19.06	18.95	19.4
5	16QAM	1	12	18.73	18.81	18.76	
5	16QAM	1	24	18.87	18.71	18.84	
5	16QAM	12	0	18.48	18.65	18.48	19.4
5	16QAM	12	7	18.51	18.59	18.46	
5	16QAM	12	13	18.43	18.44	18.51	
5	16QAM	25	0	18.53	18.49	18.53	
5	64QAM	1	0	18.71	18.69	18.85	19.4
5	64QAM	1	12	18.83	18.78	18.72	
5	64QAM	1	24	18.84	18.69	18.76	
5	64QAM	12	0	18.54	18.65	18.50	19.4
5	64QAM	12	7	18.42	18.45	18.51	
5	64QAM	12	13	18.44	18.57	18.48	
5	64QAM	25	0	18.47	18.45	18.50	
5	256QAM	1	0	18.77	18.80	18.81	19.4
5	256QAM	1	12	18.72	18.69	18.78	
5	256QAM	1	24	18.55	18.55	18.68	
5	256QAM	12	0	18.55	18.44	18.54	19.4
5	256QAM	12	7	18.67	18.74	18.52	
5	256QAM	12	13	18.24	18.65	18.39	
5	256QAM	25	0	18.44	18.76	18.64	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)	
3	QPSK	1	0	19.05	19.06	18.93	19.4	
3	QPSK	1	8	18.85	18.85	18.90		
3	QPSK	1	14	18.89	18.81	18.75		
3	QPSK	8	0	19.06	18.96	19.02	19.4	
3	QPSK	8	4	18.89	19.03	18.91		
3	QPSK	8	7	18.94	18.82	18.96		
3	QPSK	15	0	18.98	18.91	18.97	19.4	
3	16QAM	1	0	19.10	19.04	19.02		
3	16QAM	1	8	18.72	18.78	18.87		
3	16QAM	1	14	18.91	18.88	18.68	19.4	
3	16QAM	8	0	18.62	18.59	18.60		
3	16QAM	8	4	18.48	18.47	18.54		
3	16QAM	8	7	18.51	18.39	18.57	19.4	
3	16QAM	15	0	18.47	18.60	18.41		
3	64QAM	1	0	18.80	18.88	18.87		
3	64QAM	1	8	18.71	18.78	18.70	19.4	
3	64QAM	1	14	18.72	18.68	18.63		
3	64QAM	8	0	18.46	18.52	18.49		
3	64QAM	8	4	18.60	18.58	18.51	19.4	
3	64QAM	8	7	18.35	18.54	18.41		
3	64QAM	15	0	18.61	18.48	18.41		
3	256QAM	1	0	18.82	18.87	18.69	19.4	
3	256QAM	1	8	18.74	18.73	18.88		
3	256QAM	1	14	18.74	18.64	18.70		
3	256QAM	8	0	18.53	18.56	18.46	19.4	
3	256QAM	8	4	18.54	18.70	18.62		
3	256QAM	8	7	18.40	18.68	18.47		
3	256QAM	15	0	18.39	18.65	18.56	19.4	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.06	18.98	19.00	19.4	
1.4	QPSK	1	3	19.00	18.98	18.90		
1.4	QPSK	1	5	18.94	18.75	18.86		
1.4	QPSK	3	0	18.96	19.04	18.86	19.4	
1.4	QPSK	3	1	18.83	18.87	18.81		
1.4	QPSK	3	3	18.75	18.83	18.77		
1.4	QPSK	6	0	18.93	18.94	18.79	19.4	
1.4	16QAM	1	0	19.02	18.99	18.90		
1.4	16QAM	1	3	18.84	18.81	18.68		
1.4	16QAM	1	5	18.87	18.87	18.66	19.4	
1.4	16QAM	3	0	18.54	18.63	18.58		
1.4	16QAM	3	1	18.53	18.48	18.39		
1.4	16QAM	3	3	18.53	18.43	18.39	19.4	
1.4	16QAM	6	0	18.64	18.50	18.59		
1.4	64QAM	1	0	18.88	18.73	18.93		
1.4	64QAM	1	3	18.70	18.84	18.86	19.4	
1.4	64QAM	1	5	18.76	18.75	18.77		
1.4	64QAM	3	0	18.63	18.63	18.64		
1.4	64QAM	3	1	18.60	18.48	18.60	19.4	
1.4	64QAM	3	3	18.41	18.38	18.56		
1.4	64QAM	6	0	18.48	18.45	18.46		
1.4	256QAM	1	0	18.93	18.88	18.72	19.4	
1.4	256QAM	1	3	18.77	18.83	18.86		
1.4	256QAM	1	5	18.79	18.61	18.73		
1.4	256QAM	3	0	18.55	18.58	18.43	19.4	
1.4	256QAM	3	1	18.46	18.61	18.64		
1.4	256QAM	3	3	18.36	18.50	18.50		
1.4	256QAM	6	0	18.34	18.55	18.58	19.4	



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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	19.16	19.20	19.17	19.4
20	QPSK	1	49	18.98	19.04	19.02	
20	QPSK	1	99	18.98	18.97	18.93	
20	QPSK	50	0	19.15	19.16	19.15	19.4
20	QPSK	50	24	19.11	19.12	19.12	
20	QPSK	50	50	19.09	19.06	19.05	
20	QPSK	100	0	19.12	19.13	19.12	19.4
20	16QAM	1	0	19.10	19.02	19.06	
20	16QAM	1	49	18.92	18.94	18.85	
20	16QAM	1	99	18.85	18.91	18.89	19.4
20	16QAM	50	0	19.15	19.16	19.16	
20	16QAM	50	24	19.09	19.13	19.09	
20	16QAM	50	50	19.05	19.08	19.05	19.4
20	16QAM	100	0	19.11	19.13	19.08	
20	64QAM	1	0	19.03	19.00	19.09	
20	64QAM	1	49	18.85	18.86	18.81	19.4
20	64QAM	1	99	18.77	18.79	18.85	
20	64QAM	50	0	19.19	19.17	19.13	
20	64QAM	50	24	19.12	19.13	19.10	19.4
20	64QAM	50	50	19.06	19.08	19.03	
20	64QAM	100	0	19.12	19.10	19.10	
20	256QAM	1	0	19.04	18.93	19.10	19.4
20	256QAM	1	49	18.82	18.89	18.82	
20	256QAM	1	99	18.62	18.94	18.74	
20	256QAM	50	0	18.64	18.72	18.64	19.4
20	256QAM	50	24	18.62	18.59	18.72	
20	256QAM	50	50	18.59	18.61	18.62	
20	256QAM	100	0	18.66	18.61	18.67	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.99	19.12	19.11	19.4
15	QPSK	1	37	18.90	18.85	19.00	
15	QPSK	1	74	18.85	18.77	18.92	
15	QPSK	36	0	19.15	18.98	19.12	19.4
15	QPSK	36	20	18.99	18.92	18.93	
15	QPSK	36	39	19.00	19.05	19.01	
15	QPSK	75	0	19.03	19.13	19.06	19.4
15	16QAM	1	0	18.95	19.02	19.05	
15	16QAM	1	37	18.73	18.84	18.82	
15	16QAM	1	74	18.78	18.81	18.70	19.4
15	16QAM	36	0	19.13	19.08	19.07	
15	16QAM	36	20	18.92	19.13	18.95	
15	16QAM	36	39	18.92	18.99	18.99	19.4
15	16QAM	75	0	18.91	19.09	19.01	
15	64QAM	1	0	18.98	18.83	18.91	
15	64QAM	1	37	18.78	18.79	18.67	19.4
15	64QAM	1	74	18.60	18.67	18.67	
15	64QAM	36	0	18.99	19.11	19.04	
15	64QAM	36	20	19.09	18.97	18.96	19.4
15	64QAM	36	39	18.97	18.93	18.95	
15	64QAM	75	0	18.98	19.01	19.01	
15	256QAM	1	0	18.90	18.78	19.07	19.4
15	256QAM	1	37	18.67	18.82	18.65	
15	256QAM	1	74	18.54	18.83	18.62	
15	256QAM	36	0	18.57	18.62	18.48	19.4
15	256QAM	36	20	18.53	18.40	18.65	



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15	256QAM	36	39	18.54	18.47	18.42	
15	256QAM	75	0	18.54	18.51	18.63	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.07	19.13	19.17	19.4
10	QPSK	1	25	18.86	18.95	18.94	
10	QPSK	1	49	18.90	18.89	18.89	
10	QPSK	25	0	19.02	19.10	19.13	19.4
10	QPSK	25	12	18.92	18.93	19.11	
10	QPSK	25	25	19.07	19.00	18.85	
10	QPSK	50	0	18.97	19.06	19.08	
10	16QAM	1	0	18.91	18.93	18.93	
10	16QAM	1	25	18.80	18.78	18.73	19.4
10	16QAM	1	49	18.83	18.80	18.76	
10	16QAM	25	0	19.02	19.14	19.07	19.4
10	16QAM	25	12	18.94	19.09	19.00	
10	16QAM	25	25	18.91	18.96	18.89	
10	16QAM	50	0	18.97	19.00	19.06	
10	64QAM	1	0	18.85	18.89	19.07	
10	64QAM	1	25	18.65	18.73	18.81	19.4
10	64QAM	1	49	18.75	18.78	18.80	
10	64QAM	25	0	19.11	19.00	19.12	
10	64QAM	25	12	18.94	19.01	19.09	19.4
10	64QAM	25	25	18.91	18.89	18.94	
10	64QAM	50	0	19.11	19.06	18.96	
10	256QAM	1	0	19.03	18.92	18.93	
10	256QAM	1	25	18.68	18.86	18.66	
10	256QAM	1	49	18.45	18.79	18.68	19.4
10	256QAM	25	0	18.50	18.58	18.46	
10	256QAM	25	12	18.50	18.49	18.59	
10	256QAM	25	25	18.40	18.59	18.56	
10	256QAM	50	0	18.54	18.59	18.48	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.09	19.09	19.12	19.4
5	QPSK	1	12	18.97	18.96	18.96	
5	QPSK	1	24	18.90	18.77	18.78	
5	QPSK	12	0	19.11	19.06	19.10	19.4
5	QPSK	12	7	18.91	18.93	18.92	
5	QPSK	12	13	19.07	18.97	19.04	
5	QPSK	25	0	19.04	19.04	18.94	
5	16QAM	1	0	19.07	18.83	19.04	
5	16QAM	1	12	18.77	18.92	18.68	19.4
5	16QAM	1	24	18.79	18.82	18.77	
5	16QAM	12	0	18.95	19.12	19.16	
5	16QAM	12	7	18.94	18.93	18.93	19.4
5	16QAM	12	13	19.01	19.00	18.90	
5	16QAM	25	0	19.11	19.00	19.02	
5	64QAM	1	0	18.92	18.81	19.02	
5	64QAM	1	12	18.67	18.71	18.80	
5	64QAM	1	24	18.69	18.76	18.74	19.4
5	64QAM	12	0	19.12	19.17	19.09	
5	64QAM	12	7	19.11	19.06	18.91	
5	64QAM	12	13	19.04	18.92	18.91	19.4
5	64QAM	25	0	19.11	18.93	18.95	
5	256QAM	1	0	18.95	18.90	19.05	
5	256QAM	1	12	18.67	18.87	18.78	
5	256QAM	1	24	18.45	18.89	18.69	
5	256QAM	12	0	18.52	18.56	18.52	19.4
5	256QAM	12	7	18.53	18.48	18.63	
5	256QAM	12	13	18.41	18.44	18.59	
5	256QAM	25	0	18.46	18.54	18.47	
Channel				131987	132322	132657	



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)	
3	QPSK	1	0	19.02	19.18	19.13	19.4	
3	QPSK	1	8	18.88	18.84	18.95		
3	QPSK	1	14	18.85	18.84	18.85		
3	QPSK	8	0	19.12	19.11	19.10	19.4	
3	QPSK	8	4	19.02	19.12	19.00		
3	QPSK	8	7	18.95	18.99	18.94		
3	QPSK	15	0	19.03	19.06	19.04	19.4	
3	16QAM	1	0	19.03	18.99	18.86		
3	16QAM	1	8	18.82	18.75	18.69		
3	16QAM	1	14	18.65	18.89	18.83	19.4	
3	16QAM	8	0	18.95	19.07	19.07		
3	16QAM	8	4	18.98	18.95	18.93		
3	16QAM	8	7	18.99	18.99	19.00	19.4	
3	16QAM	15	0	18.94	19.05	18.93		
3	64QAM	1	0	19.01	18.88	18.94		
3	64QAM	1	8	18.82	18.85	18.74	19.4	
3	64QAM	1	14	18.74	18.71	18.68		
3	64QAM	8	0	19.03	19.05	19.09		
3	64QAM	8	4	19.11	18.95	18.92	19.4	
3	64QAM	8	7	19.03	19.01	19.02		
3	64QAM	15	0	19.11	19.05	18.93		
3	256QAM	1	0	18.93	18.78	19.00	19.4	
3	256QAM	1	8	18.73	18.80	18.82		
3	256QAM	1	14	18.62	18.81	18.71		
3	256QAM	8	0	18.62	18.53	18.58	19.4	
3	256QAM	8	4	18.48	18.45	18.55		
3	256QAM	8	7	18.42	18.44	18.55		
3	256QAM	15	0	18.50	18.49	18.59	19.4	
Channel				131979	132322	132665		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.10	19.01	19.12	19.4	
1.4	QPSK	1	3	18.88	19.01	18.91		
1.4	QPSK	1	5	18.84	18.89	18.73		
1.4	QPSK	3	0	19.12	19.16	19.11	19.4	
1.4	QPSK	3	1	19.03	19.10	19.12		
1.4	QPSK	3	3	18.90	18.92	18.89		
1.4	QPSK	6	0	19.10	19.00	18.94	19.4	
1.4	16QAM	1	0	18.91	18.90	18.96		
1.4	16QAM	1	3	18.76	18.80	18.79		
1.4	16QAM	1	5	18.65	18.90	18.80	19.4	
1.4	16QAM	3	0	18.95	19.12	19.13		
1.4	16QAM	3	1	18.98	18.97	18.89		
1.4	16QAM	3	3	18.97	18.95	18.90	19.4	
1.4	16QAM	6	0	19.05	19.09	18.89		
1.4	64QAM	1	0	18.96	18.87	19.01		
1.4	64QAM	1	3	18.70	18.66	18.68	19.4	
1.4	64QAM	1	5	18.73	18.79	18.79		
1.4	64QAM	3	0	19.10	18.97	19.08		
1.4	64QAM	3	1	18.93	19.07	19.06	19.4	
1.4	64QAM	3	3	18.94	18.92	18.94		
1.4	64QAM	6	0	19.04	19.06	19.01		
1.4	256QAM	1	0	19.04	18.83	18.94	19.4	
1.4	256QAM	1	3	18.66	18.76	18.82		
1.4	256QAM	1	5	18.59	18.79	18.67		
1.4	256QAM	3	0	18.61	18.65	18.64	19.4	
1.4	256QAM	3	1	18.53	18.45	18.67		
1.4	256QAM	3	3	18.44	18.46	18.61		
1.4	256QAM	6	0	18.57	18.55	18.65	19.4	



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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	20.95	20.94	20.96	21.6
20	QPSK	1	49	20.73	20.81	20.81	
20	QPSK	1	99	20.85	20.75	20.76	
20	QPSK	50	0	20.94	20.94	20.95	21.6
20	QPSK	50	24	20.90	20.93	20.89	
20	QPSK	50	50	20.90	20.78	20.67	
20	QPSK	100	0	20.92	20.85	20.93	
20	16QAM	1	0	20.73	20.71	20.83	21.6
20	16QAM	1	49	20.76	20.51	20.76	
20	16QAM	1	99	20.67	20.56	20.45	
20	16QAM	50	0	20.82	20.82	20.72	21.6
20	16QAM	50	24	20.71	20.77	20.68	
20	16QAM	50	50	20.74	20.75	20.65	
20	16QAM	100	0	20.74	20.84	20.76	
20	64QAM	1	0	20.83	20.86	20.91	21.6
20	64QAM	1	49	20.80	20.82	20.88	
20	64QAM	1	99	20.80	20.81	20.74	
20	64QAM	50	0	20.67	20.81	20.75	21.6
20	64QAM	50	24	20.78	20.61	20.63	
20	64QAM	50	50	20.56	20.69	20.70	
20	64QAM	100	0	20.78	20.67	20.64	
20	256QAM	1	0	19.72	19.76	19.55	20.6
20	256QAM	1	49	19.57	19.57	19.55	
20	256QAM	1	99	19.49	19.57	19.40	
20	256QAM	50	0	19.47	19.50	19.35	20.6
20	256QAM	50	24	19.41	19.38	19.45	
20	256QAM	50	50	19.34	19.46	19.38	
20	256QAM	100	0	19.31	19.26	19.25	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.86	20.84	20.92	21.6
15	QPSK	1	37	20.89	20.59	20.80	
15	QPSK	1	74	20.77	20.62	20.61	
15	QPSK	36	0	20.89	20.65	20.90	21.6
15	QPSK	36	20	20.78	20.70	20.66	
15	QPSK	36	39	20.61	20.56	20.65	
15	QPSK	75	0	20.83	20.73	20.68	
15	16QAM	1	0	20.83	20.59	20.75	21.6
15	16QAM	1	37	20.68	20.46	20.50	
15	16QAM	1	74	20.42	20.42	20.44	
15	16QAM	36	0	20.83	20.76	20.66	21.6
15	16QAM	36	20	20.79	20.81	20.64	
15	16QAM	36	39	20.75	20.80	20.71	
15	16QAM	75	0	20.81	20.70	20.62	
15	64QAM	1	0	20.86	20.87	20.85	21.6
15	64QAM	1	37	20.86	20.66	20.88	
15	64QAM	1	74	20.84	20.79	20.73	
15	64QAM	36	0	20.71	20.68	20.52	21.6
15	64QAM	36	20	20.52	20.45	20.59	
15	64QAM	36	39	20.58	20.41	20.53	
15	64QAM	75	0	20.56	20.46	20.53	
15	256QAM	1	0	19.65	19.66	19.49	20.6
15	256QAM	1	37	19.62	19.27	19.45	
15	256QAM	1	74	19.39	19.42	19.18	
15	256QAM	36	0	19.50	19.27	19.18	20.6
15	256QAM	36	20	19.38	19.29	19.35	



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15	256QAM	36	39	19.11	19.33	19.19	
15	256QAM	75	0	19.28	19.33	19.17	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.95	20.90	20.72	21.6
10	QPSK	1	25	20.65	20.63	20.77	
10	QPSK	1	49	20.54	20.64	20.44	
10	QPSK	25	0	20.89	20.85	20.82	21.6
10	QPSK	25	12	20.75	20.64	20.84	
10	QPSK	25	25	20.72	20.62	20.68	
10	QPSK	50	0	20.81	20.61	20.73	21.6
10	16QAM	1	0	20.76	20.62	20.51	
10	16QAM	1	25	20.57	20.46	20.41	
10	16QAM	1	49	20.67	20.48	20.55	21.6
10	16QAM	25	0	20.63	20.79	20.74	
10	16QAM	25	12	20.62	20.65	20.69	
10	16QAM	25	25	20.75	20.63	20.49	21.6
10	16QAM	50	0	20.69	20.70	20.72	
10	64QAM	1	0	20.84	20.85	20.87	
10	64QAM	1	25	20.93	20.86	20.72	21.6
10	64QAM	1	49	20.96	20.83	20.62	
10	64QAM	25	0	20.70	20.54	20.61	
10	64QAM	25	12	20.62	20.75	20.55	21.6
10	64QAM	25	25	20.59	20.49	20.49	
10	64QAM	50	0	20.65	20.45	20.59	
10	256QAM	1	0	19.68	19.53	19.37	20.6
10	256QAM	1	25	19.48	19.35	19.30	
10	256QAM	1	49	19.42	19.58	19.15	
10	256QAM	25	0	19.38	19.31	19.37	20.6
10	256QAM	25	12	19.26	19.28	19.22	
10	256QAM	25	25	19.29	19.30	19.18	
10	256QAM	50	0	19.32	19.15	19.11	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.93	20.91	20.71	21.6
5	QPSK	1	12	20.58	20.73	20.66	
5	QPSK	1	24	20.73	20.71	20.61	
5	QPSK	12	0	20.80	20.72	20.85	21.6
5	QPSK	12	7	20.80	20.79	20.80	
5	QPSK	12	13	20.73	20.72	20.58	
5	QPSK	25	0	20.83	20.66	20.64	21.6
5	16QAM	1	0	20.81	20.59	20.63	
5	16QAM	1	12	20.58	20.48	20.48	
5	16QAM	1	24	20.68	20.46	20.42	21.6
5	16QAM	12	0	20.90	20.84	20.60	
5	16QAM	12	7	20.72	20.75	20.59	
5	16QAM	12	13	20.74	20.54	20.54	21.6
5	16QAM	25	0	20.60	20.74	20.64	
5	64QAM	1	0	20.94	20.82	20.91	
5	64QAM	1	12	20.73	20.84	20.87	21.6
5	64QAM	1	24	20.84	20.85	20.68	
5	64QAM	12	0	20.79	20.70	20.59	
5	64QAM	12	7	20.50	20.52	20.59	21.6
5	64QAM	12	13	20.50	20.55	20.50	
5	64QAM	25	0	20.70	20.69	20.49	
5	256QAM	1	0	19.78	19.60	19.53	20.6
5	256QAM	1	12	19.40	19.36	19.22	
5	256QAM	1	24	19.52	19.33	19.29	
5	256QAM	12	0	19.41	19.29	19.25	20.6
5	256QAM	12	7	19.31	19.36	19.23	
5	256QAM	12	13	19.24	19.12	19.25	
5	256QAM	25	0	19.15	19.22	19.15	
Channel				131987	132322	132657	Tune-up limit



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Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.88	20.88	20.92	21.6
3	QPSK	1	8	20.63	20.88	20.56	
3	QPSK	1	14	20.73	20.69	20.70	
3	QPSK	8	0	20.95	20.82	20.87	21.6
3	QPSK	8	4	20.76	20.59	20.75	
3	QPSK	8	7	20.67	20.81	20.75	
3	QPSK	15	0	20.77	20.74	20.68	21.6
3	16QAM	1	0	20.87	20.72	20.61	
3	16QAM	1	8	20.58	20.64	20.56	
3	16QAM	1	14	20.62	20.59	20.48	21.6
3	16QAM	8	0	20.67	20.67	20.50	
3	16QAM	8	4	20.58	20.51	20.70	
3	16QAM	8	7	20.65	20.61	20.52	21.6
3	16QAM	15	0	20.54	20.74	20.83	
3	64QAM	1	0	20.89	20.86	20.94	
3	64QAM	1	8	20.88	20.75	20.92	21.6
3	64QAM	1	14	20.82	20.78	20.57	
3	64QAM	8	0	20.59	20.50	20.50	
3	64QAM	8	4	20.72	20.73	20.46	21.6
3	64QAM	8	7	20.49	20.43	20.63	
3	64QAM	15	0	20.53	20.46	20.41	
3	256QAM	1	0	19.65	19.58	19.46	20.6
3	256QAM	1	8	19.43	19.29	19.35	
3	256QAM	1	14	19.37	19.44	19.18	
3	256QAM	8	0	19.27	19.23	19.35	20.6
3	256QAM	8	4	19.42	19.30	19.41	
3	256QAM	8	7	19.34	19.19	19.24	
3	256QAM	15	0	19.34	19.22	19.16	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.80	20.88	20.84	21.6
1.4	QPSK	1	3	20.81	20.53	20.62	
1.4	QPSK	1	5	20.73	20.58	20.61	
1.4	QPSK	3	0	20.89	20.83	20.96	21.6
1.4	QPSK	3	1	20.66	20.84	20.59	
1.4	QPSK	3	3	20.56	20.70	20.43	
1.4	QPSK	6	0	20.72	20.70	20.90	21.6
1.4	16QAM	1	0	20.72	20.92	20.80	21.6
1.4	16QAM	1	3	20.72	20.74	20.79	
1.4	16QAM	1	5	20.83	20.69	20.63	
1.4	16QAM	3	0	20.95	20.68	20.84	21.6
1.4	16QAM	3	1	20.63	20.77	20.69	
1.4	16QAM	3	3	20.73	20.69	20.58	
1.4	16QAM	6	0	20.74	20.79	20.56	21.6
1.4	64QAM	1	0	20.72	20.51	20.70	21.6
1.4	64QAM	1	3	20.63	20.52	20.59	
1.4	64QAM	1	5	20.68	20.76	20.73	
1.4	64QAM	3	0	20.81	20.91	20.92	21.6
1.4	64QAM	3	1	20.86	20.90	20.74	
1.4	64QAM	3	3	20.88	20.77	20.79	
1.4	64QAM	6	0	20.64	20.47	20.57	21.6
1.4	256QAM	1	0	19.72	19.80	19.48	20.6
1.4	256QAM	1	3	19.44	19.40	19.28	
1.4	256QAM	1	5	19.61	19.40	19.15	
1.4	256QAM	3	0	19.38	19.31	19.16	20.6
1.4	256QAM	3	1	19.36	19.34	19.28	
1.4	256QAM	3	3	19.12	19.25	19.40	
1.4	256QAM	6	0	19.18	19.28	19.36	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				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	24.18	24.15	24.16	25.7
20	QPSK	1	49	24.09	24.04	24.02	
20	QPSK	1	99	24.07	23.99	23.98	
20	QPSK	50	0	23.25	23.11	23.12	24.7
20	QPSK	50	24	23.15	23.09	23.11	
20	QPSK	50	50	23.09	23.08	23.11	
20	QPSK	100	0	23.08	23.05	23.07	
20	16QAM	1	0	23.35	23.39	23.42	24.7
20	16QAM	1	49	23.32	23.35	23.31	
20	16QAM	1	99	23.34	23.32	23.19	
20	16QAM	50	0	22.20	22.14	22.12	23.7
20	16QAM	50	24	22.16	22.12	22.11	
20	16QAM	50	50	22.12	22.07	22.07	
20	16QAM	100	0	22.15	22.12	22.10	
20	64QAM	1	0	22.37	22.40	22.51	23.7
20	64QAM	1	49	22.34	22.37	22.32	
20	64QAM	1	99	22.39	22.25	22.21	
20	64QAM	50	0	21.22	21.14	21.16	22.7
20	64QAM	50	24	21.15	21.14	21.13	
20	64QAM	50	50	21.12	21.10	21.09	
20	64QAM	100	0	21.19	21.14	21.13	
20	256QAM	1	0	19.68	19.71	19.86	20.7
20	256QAM	1	49	19.59	19.72	19.60	
20	256QAM	1	99	19.69	19.52	19.50	
20	256QAM	50	0	19.48	19.45	19.51	20.7
20	256QAM	50	24	19.48	19.49	19.46	
20	256QAM	50	50	19.42	19.35	19.40	
20	256QAM	100	0	19.50	19.45	19.46	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.15	24.08	24.07	25.7
15	QPSK	1	37	24.02	23.97	23.92	
15	QPSK	1	74	23.97	23.90	23.91	
15	QPSK	36	0	23.21	23.07	23.08	24.7
15	QPSK	36	20	23.12	23.04	23.05	
15	QPSK	36	39	23.04	23.07	23.11	
15	QPSK	75	0	23.03	22.95	23.05	
15	16QAM	1	0	23.30	23.36	23.34	24.7
15	16QAM	1	37	23.30	23.31	23.22	
15	16QAM	1	74	23.32	23.25	23.13	
15	16QAM	36	0	22.15	22.08	22.03	23.7
15	16QAM	36	20	22.06	22.03	22.01	
15	16QAM	36	39	22.05	21.99	22.01	
15	16QAM	75	0	22.15	22.06	22.05	
15	64QAM	1	0	22.37	22.34	22.49	23.7
15	64QAM	1	37	22.33	22.30	22.28	
15	64QAM	1	74	22.34	22.15	22.18	
15	64QAM	36	0	21.18	21.14	21.16	22.7
15	64QAM	36	20	21.06	21.07	21.06	
15	64QAM	36	39	21.04	21.01	21.09	
15	64QAM	75	0	21.16	21.06	21.06	
15	256QAM	1	0	19.63	19.67	19.84	20.7
15	256QAM	1	37	19.55	19.69	19.50	
15	256QAM	1	74	19.64	19.45	19.40	
15	256QAM	36	0	19.44	19.40	19.42	20.7
15	256QAM	36	20	19.42	19.46	19.40	
15	256QAM	36	39	19.34	19.32	19.40	



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15	256QAM	75	0	19.44	19.43	19.44	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.09	24.11	24.12	25.7
10	QPSK	1	25	24.05	23.96	23.97	
10	QPSK	1	49	24.06	23.98	23.98	
10	QPSK	25	0	23.25	23.06	23.12	24.7
10	QPSK	25	12	23.10	23.03	23.10	
10	QPSK	25	25	22.99	23.03	23.04	
10	QPSK	50	0	23.02	23.01	22.98	
10	16QAM	1	0	23.29	23.38	23.41	24.7
10	16QAM	1	25	23.24	23.30	23.21	
10	16QAM	1	49	23.26	23.27	23.19	
10	16QAM	25	0	22.16	22.05	22.03	23.7
10	16QAM	25	12	22.06	22.10	22.11	
10	16QAM	25	25	22.11	22.03	22.01	
10	16QAM	50	0	22.11	22.08	22.07	
10	64QAM	1	0	22.34	22.39	22.51	23.7
10	64QAM	1	25	22.30	22.34	22.24	
10	64QAM	1	49	22.33	22.20	22.21	
10	64QAM	25	0	21.15	21.06	21.06	22.7
10	64QAM	25	12	21.12	21.09	21.05	
10	64QAM	25	25	21.10	21.10	20.99	
10	64QAM	50	0	21.17	21.11	21.06	
10	256QAM	1	0	19.60	19.64	19.76	20.7
10	256QAM	1	25	19.58	19.67	19.56	
10	256QAM	1	49	19.61	19.42	19.47	
10	256QAM	25	0	19.41	19.39	19.49	20.7
10	256QAM	25	12	19.45	19.42	19.36	
10	256QAM	25	25	19.40	19.26	19.32	
10	256QAM	50	0	19.49	19.42	19.37	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.06	24.08	24.08	25.7
5	QPSK	1	12	24.05	23.98	24.01	
5	QPSK	1	24	24.05	23.97	23.90	
5	QPSK	12	0	23.20	23.01	23.11	24.7
5	QPSK	12	7	23.14	23.03	23.08	
5	QPSK	12	13	23.03	22.99	23.01	
5	QPSK	25	0	23.07	23.04	23.01	
5	16QAM	1	0	23.34	23.32	23.41	24.7
5	16QAM	1	12	23.25	23.27	23.30	
5	16QAM	1	24	23.34	23.24	23.15	
5	16QAM	12	0	22.14	22.06	22.06	23.7
5	16QAM	12	7	22.07	22.05	22.05	
5	16QAM	12	13	22.06	21.97	21.98	
5	16QAM	25	0	22.10	22.10	22.00	
5	64QAM	1	0	22.35	22.32	22.47	23.7
5	64QAM	1	12	22.25	22.28	22.23	
5	64QAM	1	24	22.39	22.18	22.11	
5	64QAM	12	0	21.22	21.13	21.10	22.7
5	64QAM	12	7	21.11	21.14	21.07	
5	64QAM	12	13	21.05	21.10	20.99	
5	64QAM	25	0	21.09	21.12	21.10	
5	256QAM	1	0	19.63	19.71	19.85	20.7
5	256QAM	1	12	19.50	19.62	19.51	
5	256QAM	1	24	19.69	19.42	19.49	
5	256QAM	12	0	19.46	19.37	19.46	20.7
5	256QAM	12	7	19.48	19.42	19.38	
5	256QAM	12	13	19.35	19.25	19.39	
5	256QAM	25	0	19.46	19.37	19.36	



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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				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	22.70	22.75	22.71	23.3
20	QPSK	1	49	22.67	22.67	22.65	
20	QPSK	1	99	22.54	22.69	22.60	
20	QPSK	50	0	22.55	22.75	22.68	23.3
20	QPSK	50	24	22.51	22.58	22.68	
20	QPSK	50	50	22.52	22.71	22.67	
20	QPSK	100	0	22.66	22.74	22.72	23.3
20	16QAM	1	0	22.75	22.64	22.62	
20	16QAM	1	49	22.69	22.52	22.62	
20	16QAM	1	99	22.66	22.60	22.65	23.3
20	16QAM	50	0	22.54	22.58	22.56	
20	16QAM	50	24	22.54	22.57	22.48	
20	16QAM	50	50	22.47	22.44	22.40	23.3
20	16QAM	100	0	22.46	22.53	22.41	
20	64QAM	1	0	22.63	22.64	22.67	
20	64QAM	1	49	22.49	22.62	22.74	23.3
20	64QAM	1	99	22.59	22.54	22.25	
20	64QAM	50	0	22.06	22.16	22.10	
20	64QAM	50	24	22.12	22.05	22.08	22.7
20	64QAM	50	50	22.08	21.97	21.94	
20	64QAM	100	0	22.11	22.00	22.03	
20	256QAM	1	0	20.63	20.49	20.60	20.7
20	256QAM	1	49	20.44	20.52	20.60	
20	256QAM	1	99	20.42	20.63	20.24	
20	256QAM	50	0	20.49	20.39	20.33	20.7
20	256QAM	50	24	20.50	20.42	20.36	
20	256QAM	50	50	20.39	20.32	20.39	
20	256QAM	100	0	20.46	20.49	20.48	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.52	22.58	22.62	23.3
15	QPSK	1	37	22.48	22.61	22.45	
15	QPSK	1	74	22.49	22.68	22.59	
15	QPSK	36	0	22.44	22.69	22.63	23.3
15	QPSK	36	20	22.49	22.55	22.55	
15	QPSK	36	39	22.47	22.61	22.67	
15	QPSK	75	0	22.48	22.64	22.62	23.3
15	16QAM	1	0	22.55	22.44	22.45	
15	16QAM	1	37	22.52	22.43	22.59	
15	16QAM	1	74	22.53	22.46	22.62	23.3
15	16QAM	36	0	22.45	22.51	22.40	
15	16QAM	36	20	22.43	22.52	22.34	
15	16QAM	36	39	22.40	22.35	22.40	23.3
15	16QAM	75	0	22.32	22.36	22.22	
15	64QAM	1	0	22.58	22.50	22.63	
15	64QAM	1	37	22.37	22.49	22.67	23.3
15	64QAM	1	74	22.52	22.53	22.22	
15	64QAM	36	0	22.05	22.12	22.09	
15	64QAM	36	20	21.97	22.01	21.92	22.7
15	64QAM	36	39	21.90	21.88	21.82	
15	64QAM	75	0	21.93	21.81	21.89	
15	256QAM	1	0	20.50	20.29	20.50	20.7
15	256QAM	1	37	20.36	20.48	20.42	
15	256QAM	1	74	20.42	20.44	20.18	
15	256QAM	36	0	20.48	20.31	20.33	20.7
15	256QAM	36	20	20.44	20.40	20.33	
15	256QAM	36	39	20.39	20.16	20.31	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.28	20.35	20.34	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	22.68	22.70	22.51	23.3
10	QPSK	1	25	22.52	22.66	22.50	
10	QPSK	1	49	22.46	22.64	22.53	
10	QPSK	25	0	22.36	22.66	22.68	23.3
10	QPSK	25	12	22.47	22.49	22.55	
10	QPSK	25	25	22.43	22.65	22.52	
10	QPSK	50	0	22.59	22.74	22.59	
10	16QAM	1	0	22.66	22.44	22.49	23.3
10	16QAM	1	25	22.51	22.46	22.51	
10	16QAM	1	49	22.54	22.42	22.50	
10	16QAM	25	0	22.47	22.45	22.45	23.3
10	16QAM	25	12	22.52	22.41	22.45	
10	16QAM	25	25	22.36	22.34	22.39	
10	16QAM	50	0	22.45	22.50	22.36	
10	64QAM	1	0	22.44	22.44	22.63	23.3
10	64QAM	1	25	22.42	22.42	22.63	
10	64QAM	1	49	22.58	22.45	22.23	
10	64QAM	25	0	22.05	21.99	21.92	22.7
10	64QAM	25	12	22.01	21.94	21.98	
10	64QAM	25	25	22.01	21.89	21.74	
10	64QAM	50	0	22.09	21.80	22.03	
10	256QAM	1	0	20.47	20.39	20.44	20.7
10	256QAM	1	25	20.44	20.48	20.51	
10	256QAM	1	49	20.32	20.55	20.10	
10	256QAM	25	0	20.32	20.21	20.26	20.7
10	256QAM	25	12	20.38	20.37	20.25	
10	256QAM	25	25	20.20	20.23	20.28	
10	256QAM	50	0	20.41	20.40	20.32	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	22.50	22.58	22.65	23.3
5	QPSK	1	12	22.61	22.67	22.48	
5	QPSK	1	24	22.41	22.61	22.40	
5	QPSK	12	0	22.46	22.73	22.48	23.3
5	QPSK	12	7	22.46	22.51	22.62	
5	QPSK	12	13	22.40	22.52	22.59	
5	QPSK	25	0	22.52	22.61	22.67	
5	16QAM	1	0	22.56	22.54	22.51	23.3
5	16QAM	1	12	22.54	22.37	22.53	
5	16QAM	1	24	22.57	22.44	22.50	
5	16QAM	12	0	22.43	22.46	22.56	23.3
5	16QAM	12	7	22.36	22.57	22.32	
5	16QAM	12	13	22.28	22.38	22.39	
5	16QAM	25	0	22.38	22.38	22.22	
5	64QAM	1	0	22.61	22.52	22.63	23.3
5	64QAM	1	12	22.47	22.47	22.59	
5	64QAM	1	24	22.43	22.54	22.17	
5	64QAM	12	0	21.99	22.04	21.90	22.7
5	64QAM	12	7	22.07	21.91	21.98	
5	64QAM	12	13	22.08	21.78	21.92	
5	64QAM	25	0	22.08	21.95	21.83	
5	256QAM	1	0	20.59	20.44	20.56	20.7
5	256QAM	1	12	20.25	20.39	20.53	
5	256QAM	1	24	20.26	20.60	20.09	
5	256QAM	12	0	20.44	20.30	20.17	20.7
5	256QAM	12	7	20.45	20.25	20.18	
5	256QAM	12	13	20.30	20.17	20.36	
5	256QAM	25	0	20.27	20.36	20.41	



<LTE Band 71_Ant 0_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	24.18	24.15	24.16	25.7
20	QPSK	1	49	24.09	24.04	24.02	
20	QPSK	1	99	24.07	23.99	23.98	
20	QPSK	50	0	23.25	23.11	23.12	24.7
20	QPSK	50	24	23.15	23.09	23.11	
20	QPSK	50	50	23.09	23.08	23.11	
20	QPSK	100	0	23.08	23.05	23.07	
20	16QAM	1	0	23.35	23.39	23.42	24.7
20	16QAM	1	49	23.32	23.35	23.31	
20	16QAM	1	99	23.34	23.32	23.19	
20	16QAM	50	0	22.20	22.14	22.12	23.7
20	16QAM	50	24	22.16	22.12	22.11	
20	16QAM	50	50	22.12	22.07	22.07	
20	16QAM	100	0	22.15	22.12	22.10	
20	64QAM	1	0	22.37	22.40	22.51	23.7
20	64QAM	1	49	22.34	22.37	22.32	
20	64QAM	1	99	22.39	22.25	22.21	
20	64QAM	50	0	21.22	21.14	21.16	22.7
20	64QAM	50	24	21.15	21.14	21.13	
20	64QAM	50	50	21.12	21.10	21.09	
20	64QAM	100	0	21.19	21.14	21.13	
20	256QAM	1	0	19.68	19.71	19.86	20.7
20	256QAM	1	49	19.59	19.72	19.60	
20	256QAM	1	99	19.69	19.52	19.50	
20	256QAM	50	0	19.48	19.45	19.51	20.7
20	256QAM	50	24	19.48	19.49	19.46	
20	256QAM	50	50	19.42	19.35	19.40	
20	256QAM	100	0	19.50	19.45	19.46	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.15	24.08	24.07	25.7
15	QPSK	1	37	24.02	23.97	23.92	
15	QPSK	1	74	23.97	23.90	23.91	
15	QPSK	36	0	23.21	23.07	23.08	24.7
15	QPSK	36	20	23.12	23.04	23.05	
15	QPSK	36	39	23.04	23.07	23.11	
15	QPSK	75	0	23.03	22.95	23.05	
15	16QAM	1	0	23.30	23.36	23.34	24.7
15	16QAM	1	37	23.30	23.31	23.22	
15	16QAM	1	74	23.32	23.25	23.13	
15	16QAM	36	0	22.15	22.08	22.03	23.7
15	16QAM	36	20	22.06	22.03	22.01	
15	16QAM	36	39	22.05	21.99	22.01	
15	16QAM	75	0	22.15	22.06	22.05	
15	64QAM	1	0	22.37	22.34	22.49	23.7
15	64QAM	1	37	22.33	22.30	22.28	
15	64QAM	1	74	22.34	22.15	22.18	
15	64QAM	36	0	21.18	21.14	21.16	22.7
15	64QAM	36	20	21.06	21.07	21.06	
15	64QAM	36	39	21.04	21.01	21.09	
15	64QAM	75	0	21.16	21.06	21.06	
15	256QAM	1	0	19.63	19.67	19.84	20.7
15	256QAM	1	37	19.55	19.69	19.50	
15	256QAM	1	74	19.64	19.45	19.40	
15	256QAM	36	0	19.44	19.40	19.42	20.7
15	256QAM	36	20	19.42	19.46	19.40	
15	256QAM	36	39	19.34	19.32	19.40	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.44	19.43	19.44	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.09	24.11	24.12	25.7
10	QPSK	1	25	24.05	23.96	23.97	
10	QPSK	1	49	24.06	23.98	23.98	
10	QPSK	25	0	23.25	23.06	23.12	24.7
10	QPSK	25	12	23.10	23.03	23.10	
10	QPSK	25	25	22.99	23.03	23.04	
10	QPSK	50	0	23.02	23.01	22.98	
10	16QAM	1	0	23.29	23.38	23.41	24.7
10	16QAM	1	25	23.24	23.30	23.21	
10	16QAM	1	49	23.26	23.27	23.19	
10	16QAM	25	0	22.16	22.05	22.03	23.7
10	16QAM	25	12	22.06	22.10	22.11	
10	16QAM	25	25	22.11	22.03	22.01	
10	16QAM	50	0	22.11	22.08	22.07	
10	64QAM	1	0	22.34	22.39	22.51	23.7
10	64QAM	1	25	22.30	22.34	22.24	
10	64QAM	1	49	22.33	22.20	22.21	
10	64QAM	25	0	21.15	21.06	21.06	22.7
10	64QAM	25	12	21.12	21.09	21.05	
10	64QAM	25	25	21.10	21.10	20.99	
10	64QAM	50	0	21.17	21.11	21.06	
10	256QAM	1	0	19.60	19.64	19.76	20.7
10	256QAM	1	25	19.58	19.67	19.56	
10	256QAM	1	49	19.61	19.42	19.47	
10	256QAM	25	0	19.41	19.39	19.49	20.7
10	256QAM	25	12	19.45	19.42	19.36	
10	256QAM	25	25	19.40	19.26	19.32	
10	256QAM	50	0	19.49	19.42	19.37	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.06	24.08	24.08	25.7
5	QPSK	1	12	24.05	23.98	24.01	
5	QPSK	1	24	24.05	23.97	23.90	
5	QPSK	12	0	23.20	23.01	23.11	24.7
5	QPSK	12	7	23.14	23.03	23.08	
5	QPSK	12	13	23.03	22.99	23.01	
5	QPSK	25	0	23.07	23.04	23.01	
5	16QAM	1	0	23.34	23.32	23.41	24.7
5	16QAM	1	12	23.25	23.27	23.30	
5	16QAM	1	24	23.34	23.24	23.15	
5	16QAM	12	0	22.14	22.06	22.06	23.7
5	16QAM	12	7	22.07	22.05	22.05	
5	16QAM	12	13	22.06	21.97	21.98	
5	16QAM	25	0	22.10	22.10	22.00	
5	64QAM	1	0	22.35	22.32	22.47	23.7
5	64QAM	1	12	22.25	22.28	22.23	
5	64QAM	1	24	22.39	22.18	22.11	
5	64QAM	12	0	21.22	21.13	21.10	22.7
5	64QAM	12	7	21.11	21.14	21.07	
5	64QAM	12	13	21.05	21.10	20.99	
5	64QAM	25	0	21.09	21.12	21.10	
5	256QAM	1	0	19.63	19.71	19.85	20.7
5	256QAM	1	12	19.50	19.62	19.51	
5	256QAM	1	24	19.69	19.42	19.49	
5	256QAM	12	0	19.46	19.37	19.46	20.7
5	256QAM	12	7	19.48	19.42	19.38	
5	256QAM	12	13	19.35	19.25	19.39	
5	256QAM	25	0	19.46	19.37	19.36	



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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				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	25.07	25.05	25.04	25.7
20	QPSK	1	49	24.94	24.89	24.86	
20	QPSK	1	99	24.89	24.86	24.84	
20	QPSK	50	0	24.16	24.07	24.06	24.7
20	QPSK	50	24	24.09	24.03	24.02	
20	QPSK	50	50	23.99	23.99	24.01	
20	QPSK	100	0	23.98	23.98	23.92	
20	16QAM	1	0	24.25	24.28	24.38	24.7
20	16QAM	1	49	24.27	24.22	24.17	
20	16QAM	1	99	24.25	24.16	24.07	
20	16QAM	50	0	23.06	23.02	23.00	23.7
20	16QAM	50	24	23.04	22.99	22.95	
20	16QAM	50	50	22.98	22.94	22.94	
20	16QAM	100	0	23.00	22.97	22.95	
20	64QAM	1	0	23.14	23.16	23.20	23.7
20	64QAM	1	49	23.05	23.14	23.15	
20	64QAM	1	99	23.07	23.10	22.85	
20	64QAM	50	0	22.13	22.06	22.03	22.7
20	64QAM	50	24	22.06	22.02	22.02	
20	64QAM	50	50	22.00	21.96	21.96	
20	64QAM	100	0	22.04	21.99	21.98	
20	256QAM	1	0	20.55	20.57	20.61	20.7
20	256QAM	1	49	20.50	20.52	20.54	
20	256QAM	1	99	20.45	20.54	20.21	
20	256QAM	50	0	20.52	20.41	20.39	20.7
20	256QAM	50	24	20.48	20.39	20.43	
20	256QAM	50	50	20.35	20.38	20.38	
20	256QAM	100	0	20.47	20.44	20.41	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.89	25.04	24.87	25.7
15	QPSK	1	37	24.76	24.82	24.66	
15	QPSK	1	74	24.78	24.66	24.68	
15	QPSK	36	0	24.05	24.01	23.93	24.7
15	QPSK	36	20	23.90	24.00	23.84	
15	QPSK	36	39	23.80	23.89	23.95	
15	QPSK	75	0	23.79	23.95	23.91	
15	16QAM	1	0	24.16	24.15	24.30	24.7
15	16QAM	1	37	24.17	24.19	24.06	
15	16QAM	1	74	24.06	24.15	24.06	
15	16QAM	36	0	23.05	22.94	23.00	23.7
15	16QAM	36	20	22.99	22.92	22.77	
15	16QAM	36	39	22.79	22.81	22.82	
15	16QAM	75	0	23.00	22.85	22.79	
15	64QAM	1	0	23.10	23.02	23.10	23.7
15	64QAM	1	37	23.01	23.05	22.95	
15	64QAM	1	74	23.02	23.10	22.66	
15	64QAM	36	0	22.13	21.97	21.87	22.7
15	64QAM	36	20	22.00	21.94	21.84	
15	64QAM	36	39	21.87	21.81	21.84	
15	64QAM	75	0	21.84	21.92	21.87	
15	256QAM	1	0	20.48	20.56	20.50	20.7
15	256QAM	1	37	20.40	20.51	20.43	
15	256QAM	1	74	20.44	20.48	20.02	
15	256QAM	36	0	20.38	20.21	20.26	20.7
15	256QAM	36	20	20.43	20.24	20.27	
15	256QAM	36	39	20.19	20.33	20.26	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.46	20.26	20.25	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	25.00	24.86	24.96	25.7
10	QPSK	1	25	24.87	24.74	24.71	
10	QPSK	1	49	24.76	24.84	24.71	
10	QPSK	25	0	24.15	23.87	24.04	24.7
10	QPSK	25	12	23.97	23.88	23.97	
10	QPSK	25	25	23.88	23.84	23.92	
10	QPSK	50	0	23.89	23.90	23.76	
10	16QAM	1	0	24.20	24.18	24.30	24.7
10	16QAM	1	25	24.10	24.03	24.03	
10	16QAM	1	49	24.20	23.97	23.98	
10	16QAM	25	0	22.92	22.84	22.84	23.7
10	16QAM	25	12	22.95	22.94	22.83	
10	16QAM	25	25	22.97	22.86	22.93	
10	16QAM	50	0	22.87	22.77	22.75	
10	64QAM	1	0	22.96	23.00	23.10	23.7
10	64QAM	1	25	22.86	23.09	23.12	
10	64QAM	1	49	23.01	22.90	22.70	
10	64QAM	25	0	22.12	21.90	21.86	22.7
10	64QAM	25	12	21.92	21.98	22.02	
10	64QAM	25	25	21.81	21.92	21.81	
10	64QAM	50	0	22.03	21.81	21.88	
10	256QAM	1	0	20.51	20.55	20.43	20.7
10	256QAM	1	25	20.38	20.47	20.34	
10	256QAM	1	49	20.35	20.36	20.09	
10	256QAM	25	0	20.40	20.27	20.34	20.7
10	256QAM	25	12	20.41	20.30	20.40	
10	256QAM	25	25	20.33	20.29	20.27	
10	256QAM	50	0	20.47	20.37	20.41	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	25.01	24.93	24.98	25.7
5	QPSK	1	12	24.75	24.85	24.71	
5	QPSK	1	24	24.72	24.84	24.69	
5	QPSK	12	0	24.14	23.92	23.95	24.7
5	QPSK	12	7	24.04	24.00	23.85	
5	QPSK	12	13	23.87	23.99	24.00	
5	QPSK	25	0	23.90	23.94	23.79	
5	16QAM	1	0	24.09	24.27	24.24	24.7
5	16QAM	1	12	24.20	24.12	24.11	
5	16QAM	1	24	24.16	24.04	23.95	
5	16QAM	12	0	22.98	22.95	22.97	23.7
5	16QAM	12	7	23.04	22.89	22.89	
5	16QAM	12	13	22.98	22.91	22.81	
5	16QAM	25	0	23.00	22.95	22.75	
5	64QAM	1	0	22.97	22.96	23.14	23.7
5	64QAM	1	12	22.91	23.14	23.01	
5	64QAM	1	24	23.02	22.98	22.76	
5	64QAM	12	0	21.95	21.88	21.88	22.7
5	64QAM	12	7	22.02	21.97	21.96	
5	64QAM	12	13	21.94	21.80	21.77	
5	64QAM	25	0	22.03	21.97	21.79	
5	256QAM	1	0	20.35	20.51	20.60	20.7
5	256QAM	1	12	20.31	20.32	20.50	
5	256QAM	1	24	20.36	20.51	20.13	
5	256QAM	12	0	20.45	20.33	20.20	20.7
5	256QAM	12	7	20.32	20.34	20.32	
5	256QAM	12	13	20.34	20.35	20.34	
5	256QAM	25	0	20.39	20.42	20.29	



<LTE Band 71_Ant 0_Index 10>

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	24.18	24.15	24.16	25.7
20	QPSK	1	49	24.09	24.04	24.02	
20	QPSK	1	99	24.07	23.99	23.98	
20	QPSK	50	0	23.25	23.11	23.12	24.7
20	QPSK	50	24	23.15	23.09	23.11	
20	QPSK	50	50	23.09	23.08	23.11	
20	QPSK	100	0	23.08	23.05	23.07	
20	16QAM	1	0	23.35	23.39	23.42	24.7
20	16QAM	1	49	23.32	23.35	23.31	
20	16QAM	1	99	23.34	23.32	23.19	
20	16QAM	50	0	22.20	22.14	22.12	23.7
20	16QAM	50	24	22.16	22.12	22.11	
20	16QAM	50	50	22.12	22.07	22.07	
20	16QAM	100	0	22.15	22.12	22.10	
20	64QAM	1	0	22.37	22.40	22.51	23.7
20	64QAM	1	49	22.34	22.37	22.32	
20	64QAM	1	99	22.39	22.25	22.21	
20	64QAM	50	0	21.22	21.14	21.16	22.7
20	64QAM	50	24	21.15	21.14	21.13	
20	64QAM	50	50	21.12	21.10	21.09	
20	64QAM	100	0	21.19	21.14	21.13	
20	256QAM	1	0	19.68	19.71	19.86	20.7
20	256QAM	1	49	19.59	19.72	19.60	
20	256QAM	1	99	19.69	19.52	19.50	
20	256QAM	50	0	19.48	19.45	19.51	20.7
20	256QAM	50	24	19.48	19.49	19.46	
20	256QAM	50	50	19.42	19.35	19.40	
20	256QAM	100	0	19.50	19.45	19.46	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.15	24.08	24.07	25.7
15	QPSK	1	37	24.02	23.97	23.92	
15	QPSK	1	74	23.97	23.90	23.91	
15	QPSK	36	0	23.21	23.07	23.08	24.7
15	QPSK	36	20	23.12	23.04	23.05	
15	QPSK	36	39	23.04	23.07	23.11	
15	QPSK	75	0	23.03	22.95	23.05	
15	16QAM	1	0	23.30	23.36	23.34	24.7
15	16QAM	1	37	23.30	23.31	23.22	
15	16QAM	1	74	23.32	23.25	23.13	
15	16QAM	36	0	22.15	22.08	22.03	23.7
15	16QAM	36	20	22.06	22.03	22.01	
15	16QAM	36	39	22.05	21.99	22.01	
15	16QAM	75	0	22.15	22.06	22.05	
15	64QAM	1	0	22.37	22.34	22.49	23.7
15	64QAM	1	37	22.33	22.30	22.28	
15	64QAM	1	74	22.34	22.15	22.18	
15	64QAM	36	0	21.18	21.14	21.16	22.7
15	64QAM	36	20	21.06	21.07	21.06	
15	64QAM	36	39	21.04	21.01	21.09	
15	64QAM	75	0	21.16	21.06	21.06	
15	256QAM	1	0	19.63	19.67	19.84	20.7
15	256QAM	1	37	19.55	19.69	19.50	
15	256QAM	1	74	19.64	19.45	19.40	
15	256QAM	36	0	19.44	19.40	19.42	20.7
15	256QAM	36	20	19.42	19.46	19.40	
15	256QAM	36	39	19.34	19.32	19.40	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.44	19.43	19.44	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.09	24.11	24.12	25.7
10	QPSK	1	25	24.05	23.96	23.97	
10	QPSK	1	49	24.06	23.98	23.98	
10	QPSK	25	0	23.25	23.06	23.12	24.7
10	QPSK	25	12	23.10	23.03	23.10	
10	QPSK	25	25	22.99	23.03	23.04	
10	QPSK	50	0	23.02	23.01	22.98	
10	16QAM	1	0	23.29	23.38	23.41	24.7
10	16QAM	1	25	23.24	23.30	23.21	
10	16QAM	1	49	23.26	23.27	23.19	
10	16QAM	25	0	22.16	22.05	22.03	23.7
10	16QAM	25	12	22.06	22.10	22.11	
10	16QAM	25	25	22.11	22.03	22.01	
10	16QAM	50	0	22.11	22.08	22.07	
10	64QAM	1	0	22.34	22.39	22.51	23.7
10	64QAM	1	25	22.30	22.34	22.24	
10	64QAM	1	49	22.33	22.20	22.21	
10	64QAM	25	0	21.15	21.06	21.06	22.7
10	64QAM	25	12	21.12	21.09	21.05	
10	64QAM	25	25	21.10	21.10	20.99	
10	64QAM	50	0	21.17	21.11	21.06	
10	256QAM	1	0	19.60	19.64	19.76	20.7
10	256QAM	1	25	19.58	19.67	19.56	
10	256QAM	1	49	19.61	19.42	19.47	
10	256QAM	25	0	19.41	19.39	19.49	20.7
10	256QAM	25	12	19.45	19.42	19.36	
10	256QAM	25	25	19.40	19.26	19.32	
10	256QAM	50	0	19.49	19.42	19.37	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.06	24.08	24.08	25.7
5	QPSK	1	12	24.05	23.98	24.01	
5	QPSK	1	24	24.05	23.97	23.90	
5	QPSK	12	0	23.20	23.01	23.11	24.7
5	QPSK	12	7	23.14	23.03	23.08	
5	QPSK	12	13	23.03	22.99	23.01	
5	QPSK	25	0	23.07	23.04	23.01	
5	16QAM	1	0	23.34	23.32	23.41	24.7
5	16QAM	1	12	23.25	23.27	23.30	
5	16QAM	1	24	23.34	23.24	23.15	
5	16QAM	12	0	22.14	22.06	22.06	23.7
5	16QAM	12	7	22.07	22.05	22.05	
5	16QAM	12	13	22.06	21.97	21.98	
5	16QAM	25	0	22.10	22.10	22.00	
5	64QAM	1	0	22.35	22.32	22.47	23.7
5	64QAM	1	12	22.25	22.28	22.23	
5	64QAM	1	24	22.39	22.18	22.11	
5	64QAM	12	0	21.22	21.13	21.10	22.7
5	64QAM	12	7	21.11	21.14	21.07	
5	64QAM	12	13	21.05	21.10	20.99	
5	64QAM	25	0	21.09	21.12	21.10	
5	256QAM	1	0	19.63	19.71	19.85	20.7
5	256QAM	1	12	19.50	19.62	19.51	
5	256QAM	1	24	19.69	19.42	19.49	
5	256QAM	12	0	19.46	19.37	19.46	20.7
5	256QAM	12	7	19.48	19.42	19.38	
5	256QAM	12	13	19.35	19.25	19.39	
5	256QAM	25	0	19.46	19.37	19.36	



<LTE Band 71_Ant 1_Index 10>

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	25.07	25.05	25.04	25.7
20	QPSK	1	49	24.94	24.89	24.86	
20	QPSK	1	99	24.89	24.86	24.84	
20	QPSK	50	0	24.16	24.07	24.06	24.7
20	QPSK	50	24	24.09	24.03	24.02	
20	QPSK	50	50	23.99	23.99	24.01	
20	QPSK	100	0	23.98	23.98	23.92	
20	16QAM	1	0	24.25	24.28	24.38	24.7
20	16QAM	1	49	24.27	24.22	24.17	
20	16QAM	1	99	24.25	24.16	24.07	
20	16QAM	50	0	23.06	23.02	23.00	23.7
20	16QAM	50	24	23.04	22.99	22.95	
20	16QAM	50	50	22.98	22.94	22.94	
20	16QAM	100	0	23.00	22.97	22.95	
20	64QAM	1	0	23.14	23.16	23.20	23.7
20	64QAM	1	49	23.05	23.14	23.15	
20	64QAM	1	99	23.07	23.10	22.85	
20	64QAM	50	0	22.13	22.06	22.03	22.7
20	64QAM	50	24	22.06	22.02	22.02	
20	64QAM	50	50	22.00	21.96	21.96	
20	64QAM	100	0	22.04	21.99	21.98	
20	256QAM	1	0	20.55	20.57	20.61	20.7
20	256QAM	1	49	20.50	20.52	20.54	
20	256QAM	1	99	20.45	20.54	20.21	
20	256QAM	50	0	20.52	20.41	20.39	20.7
20	256QAM	50	24	20.48	20.39	20.43	
20	256QAM	50	50	20.35	20.38	20.38	
20	256QAM	100	0	20.47	20.44	20.41	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.89	25.04	24.87	25.7
15	QPSK	1	37	24.76	24.82	24.66	
15	QPSK	1	74	24.78	24.66	24.68	
15	QPSK	36	0	24.05	24.01	23.93	24.7
15	QPSK	36	20	23.90	24.00	23.84	
15	QPSK	36	39	23.80	23.89	23.95	
15	QPSK	75	0	23.79	23.95	23.91	
15	16QAM	1	0	24.16	24.15	24.30	24.7
15	16QAM	1	37	24.17	24.19	24.06	
15	16QAM	1	74	24.06	24.15	24.06	
15	16QAM	36	0	23.05	22.94	23.00	23.7
15	16QAM	36	20	22.99	22.92	22.77	
15	16QAM	36	39	22.79	22.81	22.82	
15	16QAM	75	0	23.00	22.85	22.79	
15	64QAM	1	0	23.10	23.02	23.10	23.7
15	64QAM	1	37	23.01	23.05	22.95	
15	64QAM	1	74	23.02	23.10	22.66	
15	64QAM	36	0	22.13	21.97	21.87	22.7
15	64QAM	36	20	22.00	21.94	21.84	
15	64QAM	36	39	21.87	21.81	21.84	
15	64QAM	75	0	21.84	21.92	21.87	
15	256QAM	1	0	20.48	20.56	20.50	20.7
15	256QAM	1	37	20.40	20.51	20.43	
15	256QAM	1	74	20.44	20.48	20.02	
15	256QAM	36	0	20.38	20.21	20.26	20.7
15	256QAM	36	20	20.43	20.24	20.27	
15	256QAM	36	39	20.19	20.33	20.26	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.46	20.26	20.25	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	25.00	24.86	24.96	25.7
10	QPSK	1	25	24.87	24.74	24.71	
10	QPSK	1	49	24.76	24.84	24.71	
10	QPSK	25	0	24.15	23.87	24.04	24.7
10	QPSK	25	12	23.97	23.88	23.97	
10	QPSK	25	25	23.88	23.84	23.92	
10	QPSK	50	0	23.89	23.90	23.76	
10	16QAM	1	0	24.20	24.18	24.30	24.7
10	16QAM	1	25	24.10	24.03	24.03	
10	16QAM	1	49	24.20	23.97	23.98	
10	16QAM	25	0	22.92	22.84	22.84	23.7
10	16QAM	25	12	22.95	22.94	22.83	
10	16QAM	25	25	22.97	22.86	22.93	
10	16QAM	50	0	22.87	22.77	22.75	
10	64QAM	1	0	22.96	23.00	23.10	23.7
10	64QAM	1	25	22.86	23.09	23.12	
10	64QAM	1	49	23.01	22.90	22.70	
10	64QAM	25	0	22.12	21.90	21.86	22.7
10	64QAM	25	12	21.92	21.98	22.02	
10	64QAM	25	25	21.81	21.92	21.81	
10	64QAM	50	0	22.03	21.81	21.88	
10	256QAM	1	0	20.51	20.55	20.43	20.7
10	256QAM	1	25	20.38	20.47	20.34	
10	256QAM	1	49	20.35	20.36	20.09	
10	256QAM	25	0	20.40	20.27	20.34	20.7
10	256QAM	25	12	20.41	20.30	20.40	
10	256QAM	25	25	20.33	20.29	20.27	
10	256QAM	50	0	20.47	20.37	20.41	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	25.01	24.93	24.98	25.7
5	QPSK	1	12	24.75	24.85	24.71	
5	QPSK	1	24	24.72	24.84	24.69	
5	QPSK	12	0	24.14	23.92	23.95	24.7
5	QPSK	12	7	24.04	24.00	23.85	
5	QPSK	12	13	23.87	23.99	24.00	
5	QPSK	25	0	23.90	23.94	23.79	
5	16QAM	1	0	24.09	24.27	24.24	24.7
5	16QAM	1	12	24.20	24.12	24.11	
5	16QAM	1	24	24.16	24.04	23.95	
5	16QAM	12	0	22.98	22.95	22.97	23.7
5	16QAM	12	7	23.04	22.89	22.89	
5	16QAM	12	13	22.98	22.91	22.81	
5	16QAM	25	0	23.00	22.95	22.75	
5	64QAM	1	0	22.97	22.96	23.14	23.7
5	64QAM	1	12	22.91	23.14	23.01	
5	64QAM	1	24	23.02	22.98	22.76	
5	64QAM	12	0	21.95	21.88	21.88	22.7
5	64QAM	12	7	22.02	21.97	21.96	
5	64QAM	12	13	21.94	21.80	21.77	
5	64QAM	25	0	22.03	21.97	21.79	
5	256QAM	1	0	20.35	20.51	20.60	20.7
5	256QAM	1	12	20.31	20.32	20.50	
5	256QAM	1	24	20.36	20.51	20.13	
5	256QAM	12	0	20.45	20.33	20.20	20.7
5	256QAM	12	7	20.32	20.34	20.32	
5	256QAM	12	13	20.34	20.35	20.34	
5	256QAM	25	0	20.39	20.42	20.29	



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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	24.18	24.15	24.16	25.7
20	QPSK	1	49	24.09	24.04	24.02	
20	QPSK	1	99	24.07	23.99	23.98	
20	QPSK	50	0	23.25	23.11	23.12	24.7
20	QPSK	50	24	23.15	23.09	23.11	
20	QPSK	50	50	23.09	23.08	23.11	
20	QPSK	100	0	23.08	23.05	23.07	
20	16QAM	1	0	23.35	23.39	23.42	24.7
20	16QAM	1	49	23.32	23.35	23.31	
20	16QAM	1	99	23.34	23.32	23.19	
20	16QAM	50	0	22.20	22.14	22.12	23.7
20	16QAM	50	24	22.16	22.12	22.11	
20	16QAM	50	50	22.12	22.07	22.07	
20	16QAM	100	0	22.15	22.12	22.10	
20	64QAM	1	0	22.37	22.40	22.51	23.7
20	64QAM	1	49	22.34	22.37	22.32	
20	64QAM	1	99	22.39	22.25	22.21	
20	64QAM	50	0	21.22	21.14	21.16	22.7
20	64QAM	50	24	21.15	21.14	21.13	
20	64QAM	50	50	21.12	21.10	21.09	
20	64QAM	100	0	21.19	21.14	21.13	
20	256QAM	1	0	19.68	19.71	19.86	20.7
20	256QAM	1	49	19.59	19.72	19.60	
20	256QAM	1	99	19.69	19.52	19.50	
20	256QAM	50	0	19.48	19.45	19.51	20.7
20	256QAM	50	24	19.48	19.49	19.46	
20	256QAM	50	50	19.42	19.35	19.40	
20	256QAM	100	0	19.50	19.45	19.46	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.15	24.08	24.07	25.7
15	QPSK	1	37	24.02	23.97	23.92	
15	QPSK	1	74	23.97	23.90	23.91	
15	QPSK	36	0	23.21	23.07	23.08	24.7
15	QPSK	36	20	23.12	23.04	23.05	
15	QPSK	36	39	23.04	23.07	23.11	
15	QPSK	75	0	23.03	22.95	23.05	
15	16QAM	1	0	23.30	23.36	23.34	24.7
15	16QAM	1	37	23.30	23.31	23.22	
15	16QAM	1	74	23.32	23.25	23.13	
15	16QAM	36	0	22.15	22.08	22.03	23.7
15	16QAM	36	20	22.06	22.03	22.01	
15	16QAM	36	39	22.05	21.99	22.01	
15	16QAM	75	0	22.15	22.06	22.05	
15	64QAM	1	0	22.37	22.34	22.49	23.7
15	64QAM	1	37	22.33	22.30	22.28	
15	64QAM	1	74	22.34	22.15	22.18	
15	64QAM	36	0	21.18	21.14	21.16	22.7
15	64QAM	36	20	21.06	21.07	21.06	
15	64QAM	36	39	21.04	21.01	21.09	
15	64QAM	75	0	21.16	21.06	21.06	
15	256QAM	1	0	19.63	19.67	19.84	20.7
15	256QAM	1	37	19.55	19.69	19.50	
15	256QAM	1	74	19.64	19.45	19.40	
15	256QAM	36	0	19.44	19.40	19.42	20.7
15	256QAM	36	20	19.42	19.46	19.40	
15	256QAM	36	39	19.34	19.32	19.40	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.44	19.43	19.44	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	24.09	24.11	24.12	25.7
10	QPSK	1	25	24.05	23.96	23.97	
10	QPSK	1	49	24.06	23.98	23.98	
10	QPSK	25	0	23.25	23.06	23.12	24.7
10	QPSK	25	12	23.10	23.03	23.10	
10	QPSK	25	25	22.99	23.03	23.04	
10	QPSK	50	0	23.02	23.01	22.98	
10	16QAM	1	0	23.29	23.38	23.41	24.7
10	16QAM	1	25	23.24	23.30	23.21	
10	16QAM	1	49	23.26	23.27	23.19	
10	16QAM	25	0	22.16	22.05	22.03	23.7
10	16QAM	25	12	22.06	22.10	22.11	
10	16QAM	25	25	22.11	22.03	22.01	
10	16QAM	50	0	22.11	22.08	22.07	
10	64QAM	1	0	22.34	22.39	22.51	23.7
10	64QAM	1	25	22.30	22.34	22.24	
10	64QAM	1	49	22.33	22.20	22.21	
10	64QAM	25	0	21.15	21.06	21.06	22.7
10	64QAM	25	12	21.12	21.09	21.05	
10	64QAM	25	25	21.10	21.10	20.99	
10	64QAM	50	0	21.17	21.11	21.06	
10	256QAM	1	0	19.60	19.64	19.76	20.7
10	256QAM	1	25	19.58	19.67	19.56	
10	256QAM	1	49	19.61	19.42	19.47	
10	256QAM	25	0	19.41	19.39	19.49	20.7
10	256QAM	25	12	19.45	19.42	19.36	
10	256QAM	25	25	19.40	19.26	19.32	
10	256QAM	50	0	19.49	19.42	19.37	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	24.06	24.08	24.08	25.7
5	QPSK	1	12	24.05	23.98	24.01	
5	QPSK	1	24	24.05	23.97	23.90	
5	QPSK	12	0	23.20	23.01	23.11	24.7
5	QPSK	12	7	23.14	23.03	23.08	
5	QPSK	12	13	23.03	22.99	23.01	
5	QPSK	25	0	23.07	23.04	23.01	
5	16QAM	1	0	23.34	23.32	23.41	24.7
5	16QAM	1	12	23.25	23.27	23.30	
5	16QAM	1	24	23.34	23.24	23.15	
5	16QAM	12	0	22.14	22.06	22.06	23.7
5	16QAM	12	7	22.07	22.05	22.05	
5	16QAM	12	13	22.06	21.97	21.98	
5	16QAM	25	0	22.10	22.10	22.00	
5	64QAM	1	0	22.35	22.32	22.47	23.7
5	64QAM	1	12	22.25	22.28	22.23	
5	64QAM	1	24	22.39	22.18	22.11	
5	64QAM	12	0	21.22	21.13	21.10	22.7
5	64QAM	12	7	21.11	21.14	21.07	
5	64QAM	12	13	21.05	21.10	20.99	
5	64QAM	25	0	21.09	21.12	21.10	
5	256QAM	1	0	19.63	19.71	19.85	20.7
5	256QAM	1	12	19.50	19.62	19.51	
5	256QAM	1	24	19.69	19.42	19.49	
5	256QAM	12	0	19.46	19.37	19.46	20.7
5	256QAM	12	7	19.48	19.42	19.38	
5	256QAM	12	13	19.35	19.25	19.39	
5	256QAM	25	0	19.46	19.37	19.36	



<LTE Band 71_Ant 1_Index 11>

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	25.07	25.05	25.04	25.7
20	QPSK	1	49	24.94	24.89	24.86	
20	QPSK	1	99	24.89	24.86	24.84	
20	QPSK	50	0	24.16	24.07	24.06	24.7
20	QPSK	50	24	24.09	24.03	24.02	
20	QPSK	50	50	23.99	23.99	24.01	
20	QPSK	100	0	23.98	23.98	23.92	
20	16QAM	1	0	24.25	24.28	24.38	24.7
20	16QAM	1	49	24.27	24.22	24.17	
20	16QAM	1	99	24.25	24.16	24.07	
20	16QAM	50	0	23.06	23.02	23.00	23.7
20	16QAM	50	24	23.04	22.99	22.95	
20	16QAM	50	50	22.98	22.94	22.94	
20	16QAM	100	0	23.00	22.97	22.95	
20	64QAM	1	0	23.14	23.16	23.20	23.7
20	64QAM	1	49	23.05	23.14	23.15	
20	64QAM	1	99	23.07	23.10	22.85	
20	64QAM	50	0	22.13	22.06	22.03	22.7
20	64QAM	50	24	22.06	22.02	22.02	
20	64QAM	50	50	22.00	21.96	21.96	
20	64QAM	100	0	22.04	21.99	21.98	
20	256QAM	1	0	20.55	20.57	20.61	20.7
20	256QAM	1	49	20.50	20.52	20.54	
20	256QAM	1	99	20.45	20.54	20.21	
20	256QAM	50	0	20.52	20.41	20.39	20.7
20	256QAM	50	24	20.48	20.39	20.43	
20	256QAM	50	50	20.35	20.38	20.38	
20	256QAM	100	0	20.47	20.44	20.41	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.89	25.04	24.87	25.7
15	QPSK	1	37	24.76	24.82	24.66	
15	QPSK	1	74	24.78	24.66	24.68	
15	QPSK	36	0	24.05	24.01	23.93	24.7
15	QPSK	36	20	23.90	24.00	23.84	
15	QPSK	36	39	23.80	23.89	23.95	
15	QPSK	75	0	23.79	23.95	23.91	
15	16QAM	1	0	24.16	24.15	24.30	24.7
15	16QAM	1	37	24.17	24.19	24.06	
15	16QAM	1	74	24.06	24.15	24.06	
15	16QAM	36	0	23.05	22.94	23.00	23.7
15	16QAM	36	20	22.99	22.92	22.77	
15	16QAM	36	39	22.79	22.81	22.82	
15	16QAM	75	0	23.00	22.85	22.79	
15	64QAM	1	0	23.10	23.02	23.10	23.7
15	64QAM	1	37	23.01	23.05	22.95	
15	64QAM	1	74	23.02	23.10	22.66	
15	64QAM	36	0	22.13	21.97	21.87	22.7
15	64QAM	36	20	22.00	21.94	21.84	
15	64QAM	36	39	21.87	21.81	21.84	
15	64QAM	75	0	21.84	21.92	21.87	
15	256QAM	1	0	20.48	20.56	20.50	20.7
15	256QAM	1	37	20.40	20.51	20.43	
15	256QAM	1	74	20.44	20.48	20.02	
15	256QAM	36	0	20.38	20.21	20.26	20.7
15	256QAM	36	20	20.43	20.24	20.27	
15	256QAM	36	39	20.19	20.33	20.26	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.46	20.26	20.25	
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	25.00	24.86	24.96	25.7
10	QPSK	1	25	24.87	24.74	24.71	
10	QPSK	1	49	24.76	24.84	24.71	
10	QPSK	25	0	24.15	23.87	24.04	24.7
10	QPSK	25	12	23.97	23.88	23.97	
10	QPSK	25	25	23.88	23.84	23.92	
10	QPSK	50	0	23.89	23.90	23.76	
10	16QAM	1	0	24.20	24.18	24.30	24.7
10	16QAM	1	25	24.10	24.03	24.03	
10	16QAM	1	49	24.20	23.97	23.98	
10	16QAM	25	0	22.92	22.84	22.84	23.7
10	16QAM	25	12	22.95	22.94	22.83	
10	16QAM	25	25	22.97	22.86	22.93	
10	16QAM	50	0	22.87	22.77	22.75	
10	64QAM	1	0	22.96	23.00	23.10	23.7
10	64QAM	1	25	22.86	23.09	23.12	
10	64QAM	1	49	23.01	22.90	22.70	
10	64QAM	25	0	22.12	21.90	21.86	22.7
10	64QAM	25	12	21.92	21.98	22.02	
10	64QAM	25	25	21.81	21.92	21.81	
10	64QAM	50	0	22.03	21.81	21.88	
10	256QAM	1	0	20.51	20.55	20.43	20.7
10	256QAM	1	25	20.38	20.47	20.34	
10	256QAM	1	49	20.35	20.36	20.09	
10	256QAM	25	0	20.40	20.27	20.34	20.7
10	256QAM	25	12	20.41	20.30	20.40	
10	256QAM	25	25	20.33	20.29	20.27	
10	256QAM	50	0	20.47	20.37	20.41	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	25.01	24.93	24.98	25.7
5	QPSK	1	12	24.75	24.85	24.71	
5	QPSK	1	24	24.72	24.84	24.69	
5	QPSK	12	0	24.14	23.92	23.95	24.7
5	QPSK	12	7	24.04	24.00	23.85	
5	QPSK	12	13	23.87	23.99	24.00	
5	QPSK	25	0	23.90	23.94	23.79	
5	16QAM	1	0	24.09	24.27	24.24	24.7
5	16QAM	1	12	24.20	24.12	24.11	
5	16QAM	1	24	24.16	24.04	23.95	
5	16QAM	12	0	22.98	22.95	22.97	23.7
5	16QAM	12	7	23.04	22.89	22.89	
5	16QAM	12	13	22.98	22.91	22.81	
5	16QAM	25	0	23.00	22.95	22.75	
5	64QAM	1	0	22.97	22.96	23.14	23.7
5	64QAM	1	12	22.91	23.14	23.01	
5	64QAM	1	24	23.02	22.98	22.76	
5	64QAM	12	0	21.95	21.88	21.88	22.7
5	64QAM	12	7	22.02	21.97	21.96	
5	64QAM	12	13	21.94	21.80	21.77	
5	64QAM	25	0	22.03	21.97	21.79	
5	256QAM	1	0	20.35	20.51	20.60	20.7
5	256QAM	1	12	20.31	20.32	20.50	
5	256QAM	1	24	20.36	20.51	20.13	
5	256QAM	12	0	20.45	20.33	20.20	20.7
5	256QAM	12	7	20.32	20.34	20.32	
5	256QAM	12	13	20.34	20.35	20.34	
5	256QAM	25	0	20.39	20.42	20.29	

<TDD LTE SAR Measurement>

TEL : 886-3-327-3456

FAX : 886-3-328-4978

Template version: 240125

TDD LTE configuration setup for SAR measurement

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

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

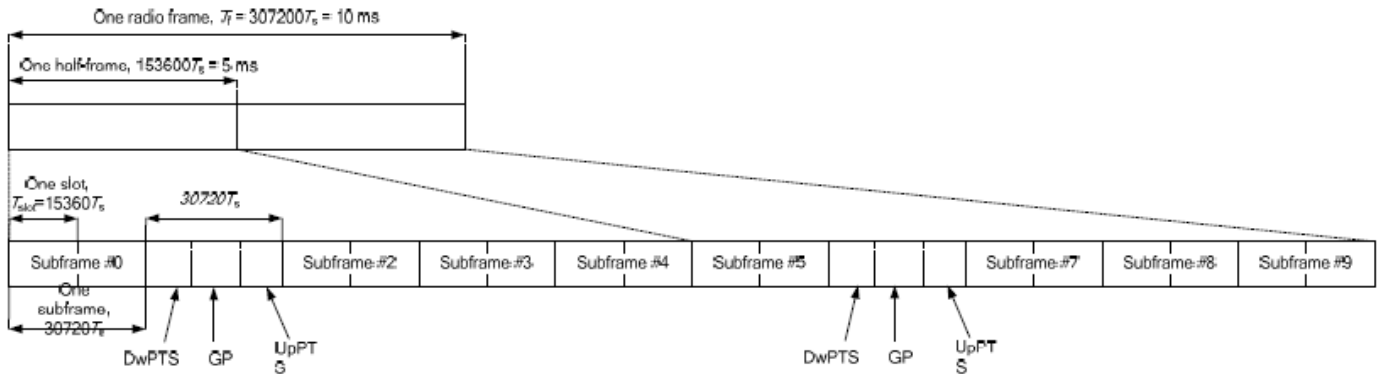


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



<LTE Band 38_Ant 2_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.22	24.23	24.25	25
20	QPSK	1	49	24.21	24.21	24.21	
20	QPSK	1	99	24.20	24.22	24.21	
20	QPSK	50	0	23.23	23.24	23.25	24
20	QPSK	50	24	23.20	23.18	23.21	
20	QPSK	50	50	23.20	23.19	23.23	
20	QPSK	100	0	23.21	23.22	23.24	
20	16QAM	1	0	23.36	23.36	23.38	24
20	16QAM	1	49	23.29	23.31	23.34	
20	16QAM	1	99	23.36	23.33	23.31	
20	16QAM	50	0	22.19	22.18	22.18	23
20	16QAM	50	24	22.22	22.20	22.18	
20	16QAM	50	50	22.21	22.19	22.20	
20	16QAM	100	0	22.25	22.25	22.28	
20	64QAM	1	0	22.05	22.02	21.98	23
20	64QAM	1	49	21.98	22.01	21.96	
20	64QAM	1	99	22.07	22.07	21.99	
20	64QAM	50	0	21.22	21.20	21.19	22
20	64QAM	50	24	21.22	21.20	21.19	
20	64QAM	50	50	21.22	21.22	21.20	
20	64QAM	100	0	21.23	21.24	21.22	
20	256QAM	1	0	19.48	19.39	19.40	20
20	256QAM	1	49	19.36	19.39	19.35	
20	256QAM	1	99	19.52	19.43	19.43	
20	256QAM	50	0	19.59	19.64	19.60	20
20	256QAM	50	24	19.60	19.60	19.55	
20	256QAM	50	50	19.59	19.58	19.56	
20	256QAM	100	0	19.62	19.68	19.59	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.19	24.11	24.16	25
15	QPSK	1	37	24.05	24.21	24.06	
15	QPSK	1	74	24.13	24.11	24.18	
15	QPSK	36	0	23.17	23.16	23.21	24
15	QPSK	36	20	23.15	23.00	23.18	
15	QPSK	36	39	23.12	23.03	23.03	
15	QPSK	75	0	23.01	23.06	23.13	
15	16QAM	1	0	23.16	23.27	23.30	24
15	16QAM	1	37	23.15	23.31	23.22	
15	16QAM	1	74	23.22	23.17	23.16	
15	16QAM	36	0	22.07	22.06	22.02	23
15	16QAM	36	20	22.05	22.06	22.17	
15	16QAM	36	39	22.11	21.99	22.14	
15	16QAM	75	0	22.13	22.18	22.18	
15	64QAM	1	0	22.05	21.91	21.84	23
15	64QAM	1	37	21.79	21.96	21.80	
15	64QAM	1	74	22.07	21.94	21.91	
15	64QAM	36	0	21.02	21.10	21.16	22
15	64QAM	36	20	21.16	21.19	21.06	
15	64QAM	36	39	21.13	21.20	21.14	
15	64QAM	75	0	21.06	21.07	21.11	
15	256QAM	1	0	19.31	19.33	19.26	20
15	256QAM	1	37	19.34	19.35	19.16	
15	256QAM	1	74	19.46	19.38	19.30	
15	256QAM	36	0	19.47	19.56	19.43	20
15	256QAM	36	20	19.45	19.51	19.52	
15	256QAM	36	39	19.39	19.49	19.46	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.62	19.53	19.48	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.20	24.05	24.22	25
10	QPSK	1	25	24.03	24.01	24.15	
10	QPSK	1	49	24.03	24.13	24.20	
10	QPSK	25	0	23.22	23.09	23.21	24
10	QPSK	25	12	23.10	23.11	23.20	
10	QPSK	25	25	23.04	23.08	23.14	
10	QPSK	50	0	23.12	23.06	23.14	
10	16QAM	1	0	23.20	23.30	23.28	24
10	16QAM	1	25	23.10	23.31	23.26	
10	16QAM	1	49	23.36	23.33	23.16	
10	16QAM	25	0	22.17	22.06	22.01	23
10	16QAM	25	12	22.04	22.16	22.02	
10	16QAM	25	25	22.09	22.10	22.16	
10	16QAM	50	0	22.21	22.16	22.24	
10	64QAM	1	0	22.01	21.97	21.95	23
10	64QAM	1	25	21.90	21.98	21.85	
10	64QAM	1	49	21.99	22.03	21.80	
10	64QAM	25	0	21.04	21.08	21.05	22
10	64QAM	25	12	21.10	21.03	21.15	
10	64QAM	25	25	21.09	21.11	21.10	
10	64QAM	50	0	21.07	21.20	21.04	
10	256QAM	1	0	19.34	19.30	19.28	20
10	256QAM	1	25	19.29	19.28	19.16	
10	256QAM	1	49	19.44	19.34	19.27	
10	256QAM	25	0	19.55	19.63	19.51	20
10	256QAM	25	12	19.48	19.52	19.51	
10	256QAM	25	25	19.40	19.44	19.38	
10	256QAM	50	0	19.48	19.58	19.57	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.15	24.15	24.12	25
5	QPSK	1	12	24.08	24.10	24.03	
5	QPSK	1	24	24.14	24.08	24.16	
5	QPSK	12	0	23.03	23.15	23.16	24
5	QPSK	12	7	23.16	23.00	23.12	
5	QPSK	12	13	23.15	23.15	23.22	
5	QPSK	25	0	23.21	23.14	23.12	
5	16QAM	1	0	23.21	23.24	23.27	24
5	16QAM	1	12	23.13	23.22	23.17	
5	16QAM	1	24	23.33	23.15	23.30	
5	16QAM	12	0	22.16	22.15	22.01	23
5	16QAM	12	7	22.03	22.07	22.06	
5	16QAM	12	13	22.14	22.19	22.16	
5	16QAM	25	0	22.10	22.05	22.16	
5	64QAM	1	0	22.01	21.85	21.97	23
5	64QAM	1	12	21.86	21.99	21.79	
5	64QAM	1	24	21.92	22.05	21.82	
5	64QAM	12	0	21.16	21.20	21.09	22
5	64QAM	12	7	21.12	21.07	21.09	
5	64QAM	12	13	21.15	21.03	21.17	
5	64QAM	25	0	21.14	21.08	21.04	
5	256QAM	1	0	19.33	19.36	19.30	20
5	256QAM	1	12	19.21	19.29	19.25	
5	256QAM	1	24	19.42	19.28	19.24	
5	256QAM	12	0	19.54	19.54	19.45	20
5	256QAM	12	7	19.40	19.56	19.50	
5	256QAM	12	13	19.40	19.42	19.45	
5	256QAM	25	0	19.43	19.67	19.59	



<LTE Band 38_Ant 1_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.07	19.96	19.94	20.3
20	QPSK	1	49	19.95	19.96	19.86	
20	QPSK	1	99	19.92	19.88	19.89	
20	QPSK	50	0	20.02	19.90	19.81	20.3
20	QPSK	50	24	19.89	19.85	19.76	
20	QPSK	50	50	19.92	19.89	19.78	
20	QPSK	100	0	19.95	19.85	19.94	
20	16QAM	1	0	20.06	19.85	19.82	20.3
20	16QAM	1	49	19.91	19.95	19.90	
20	16QAM	1	99	19.87	19.78	19.83	
20	16QAM	50	0	20.01	19.90	19.74	20.3
20	16QAM	50	24	19.91	19.78	19.93	
20	16QAM	50	50	19.93	19.77	19.75	
20	16QAM	100	0	19.97	19.94	19.94	
20	64QAM	1	0	19.95	19.93	19.87	20.3
20	64QAM	1	49	20.06	19.89	19.94	
20	64QAM	1	99	20.02	19.82	19.93	
20	64QAM	50	0	19.99	19.91	19.80	20.3
20	64QAM	50	24	20.04	19.78	19.76	
20	64QAM	50	50	20.06	19.95	19.77	
20	64QAM	100	0	19.90	19.95	19.93	
20	256QAM	1	0	19.38	19.38	19.39	20
20	256QAM	1	49	19.47	19.46	19.27	
20	256QAM	1	99	19.43	19.39	19.24	
20	256QAM	50	0	19.54	19.26	19.31	20
20	256QAM	50	24	19.47	19.26	19.29	
20	256QAM	50	50	19.46	19.36	19.38	
20	256QAM	100	0	19.45	19.43	19.38	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.06	19.83	19.84	20.3
15	QPSK	1	37	19.94	19.77	19.76	
15	QPSK	1	74	19.92	19.74	19.86	
15	QPSK	36	0	19.97	19.83	19.78	20.3
15	QPSK	36	20	19.69	19.84	19.60	
15	QPSK	36	39	19.73	19.76	19.77	
15	QPSK	75	0	19.76	19.70	19.76	
15	16QAM	1	0	20.04	19.84	19.79	20.3
15	16QAM	1	37	19.78	19.90	19.71	
15	16QAM	1	74	19.78	19.61	19.65	
15	16QAM	36	0	19.96	19.81	19.56	20.3
15	16QAM	36	20	19.71	19.60	19.90	
15	16QAM	36	39	19.81	19.70	19.71	
15	16QAM	75	0	19.91	19.75	19.76	
15	64QAM	1	0	19.75	19.89	19.87	20.3
15	64QAM	1	37	19.93	19.81	19.91	
15	64QAM	1	74	20.00	19.81	19.77	
15	64QAM	36	0	19.99	19.76	19.66	20.3
15	64QAM	36	20	19.89	19.75	19.63	
15	64QAM	36	39	19.94	19.89	19.68	
15	64QAM	75	0	19.85	19.86	19.75	
15	256QAM	1	0	19.33	19.31	19.31	20
15	256QAM	1	37	19.28	19.34	19.13	
15	256QAM	1	74	19.25	19.39	19.23	
15	256QAM	36	0	19.50	19.24	19.27	20
15	256QAM	36	20	19.34	19.07	19.19	
15	256QAM	36	39	19.41	19.16	19.18	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.33	19.40	19.21	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.01	19.92	19.75	20.3
10	QPSK	1	25	19.84	19.77	19.85	
10	QPSK	1	49	19.90	19.88	19.71	
10	QPSK	25	0	19.97	19.70	19.66	20.3
10	QPSK	25	12	19.80	19.74	19.68	
10	QPSK	25	25	19.73	19.80	19.70	
10	QPSK	50	0	19.78	19.65	19.86	
10	16QAM	1	0	19.94	19.77	19.79	20.3
10	16QAM	1	25	19.80	19.95	19.74	
10	16QAM	1	49	19.85	19.66	19.82	
10	16QAM	25	0	19.83	19.82	19.63	20.3
10	16QAM	25	12	19.91	19.73	19.92	
10	16QAM	25	25	19.91	19.75	19.75	
10	16QAM	50	0	19.77	19.84	19.88	
10	64QAM	1	0	19.82	19.73	19.85	20.3
10	64QAM	1	25	20.06	19.88	19.76	
10	64QAM	1	49	19.98	19.80	19.75	
10	64QAM	25	0	19.87	19.72	19.62	20.3
10	64QAM	25	12	19.85	19.78	19.61	
10	64QAM	25	25	20.04	19.85	19.77	
10	64QAM	50	0	19.74	19.95	19.92	
10	256QAM	1	0	19.30	19.30	19.22	20
10	256QAM	1	25	19.28	19.41	19.27	
10	256QAM	1	49	19.28	19.29	19.19	
10	256QAM	25	0	19.44	19.11	19.26	20
10	256QAM	25	12	19.38	19.17	19.13	
10	256QAM	25	25	19.41	19.26	19.36	
10	256QAM	50	0	19.43	19.40	19.27	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.06	19.95	19.79	20.3
5	QPSK	1	12	19.79	19.77	19.66	
5	QPSK	1	24	19.82	19.76	19.85	
5	QPSK	12	0	19.97	19.79	19.63	20.3
5	QPSK	12	7	19.70	19.79	19.75	
5	QPSK	12	13	19.88	19.80	19.67	
5	QPSK	25	0	19.89	19.83	19.91	
5	16QAM	1	0	19.89	19.81	19.69	20.3
5	16QAM	1	12	19.91	19.88	19.70	
5	16QAM	1	24	19.72	19.66	19.74	
5	16QAM	12	0	19.95	19.78	19.56	20.3
5	16QAM	12	7	19.85	19.69	19.84	
5	16QAM	12	13	19.74	19.58	19.71	
5	16QAM	25	0	19.90	19.92	19.82	
5	64QAM	1	0	19.92	19.73	19.68	20.3
5	64QAM	1	12	20.03	19.74	19.85	
5	64QAM	1	24	19.87	19.63	19.79	
5	64QAM	12	0	19.97	19.79	19.78	20.3
5	64QAM	12	7	20.04	19.60	19.58	
5	64QAM	12	13	19.88	19.82	19.61	
5	64QAM	25	0	19.73	19.82	19.83	
5	256QAM	1	0	19.22	19.19	19.20	20
5	256QAM	1	12	19.40	19.29	19.17	
5	256QAM	1	24	19.34	19.35	19.08	
5	256QAM	12	0	19.39	19.18	19.30	20
5	256QAM	12	7	19.40	19.17	19.17	
5	256QAM	12	13	19.38	19.35	19.34	
5	256QAM	25	0	19.27	19.37	19.30	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.98	23.96	23.93	25
20	QPSK	1	49	23.97	23.95	23.92	
20	QPSK	1	99	23.96	23.92	23.90	
20	QPSK	50	0	22.90	22.87	22.84	24
20	QPSK	50	24	22.89	22.86	22.81	
20	QPSK	50	50	22.88	22.85	22.82	
20	QPSK	100	0	22.89	22.86	22.83	24
20	16QAM	1	0	23.08	23.05	22.91	
20	16QAM	1	49	22.98	23.04	22.96	
20	16QAM	1	99	23.09	23.03	22.95	23
20	16QAM	50	0	21.88	21.88	21.81	
20	16QAM	50	24	21.89	21.88	21.84	
20	16QAM	50	50	21.92	21.88	21.85	23
20	16QAM	100	0	21.93	21.92	21.89	
20	64QAM	1	0	21.95	21.70	21.78	
20	64QAM	1	49	21.80	21.73	21.81	23
20	64QAM	1	99	21.83	21.76	21.78	
20	64QAM	50	0	20.90	20.87	20.83	
20	64QAM	50	24	20.88	20.89	20.85	22
20	64QAM	50	50	20.90	20.87	20.84	
20	64QAM	100	0	20.90	20.88	20.84	
20	256QAM	1	0	19.17	18.90	18.98	20
20	256QAM	1	49	19.02	18.96	19.09	
20	256QAM	1	99	19.08	19.04	19.00	
20	256QAM	50	0	19.16	19.09	19.06	20
20	256QAM	50	24	19.12	19.12	19.12	
20	256QAM	50	50	19.10	19.16	19.13	
20	256QAM	100	0	19.10	19.12	19.12	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.93	23.85	23.83	25
15	QPSK	1	37	23.78	23.88	23.92	
15	QPSK	1	74	23.83	23.79	23.90	
15	QPSK	36	0	22.79	22.78	22.69	24
15	QPSK	36	20	22.69	22.69	22.80	
15	QPSK	36	39	22.71	22.80	22.74	
15	QPSK	75	0	22.72	22.86	22.79	24
15	16QAM	1	0	23.06	22.89	22.91	
15	16QAM	1	37	22.87	23.02	22.87	
15	16QAM	1	74	22.96	22.98	22.89	23
15	16QAM	36	0	21.75	21.69	21.67	
15	16QAM	36	20	21.79	21.87	21.64	
15	16QAM	36	39	21.91	21.83	21.75	23
15	16QAM	75	0	21.83	21.89	21.88	
15	64QAM	1	0	21.82	21.67	21.75	
15	64QAM	1	37	21.67	21.66	21.61	23
15	64QAM	1	74	21.82	21.71	21.78	
15	64QAM	36	0	20.86	20.67	20.65	
15	64QAM	36	20	20.81	20.85	20.75	22
15	64QAM	36	39	20.81	20.69	20.80	
15	64QAM	75	0	20.79	20.80	20.71	
15	256QAM	1	0	19.14	18.76	18.78	20
15	256QAM	1	37	18.97	18.81	18.94	
15	256QAM	1	74	19.05	18.98	18.96	
15	256QAM	36	0	19.13	18.91	18.89	20
15	256QAM	36	20	18.96	18.99	19.09	
15	256QAM	36	39	18.90	19.11	18.93	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	18.98	18.99	19.00	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.94	23.78	23.78	25
10	QPSK	1	25	23.90	23.75	23.77	
10	QPSK	1	49	23.85	23.88	23.86	
10	QPSK	25	0	22.76	22.86	22.71	24
10	QPSK	25	12	22.80	22.83	22.62	
10	QPSK	25	25	22.77	22.66	22.71	
10	QPSK	50	0	22.73	22.66	22.69	
10	16QAM	1	0	22.93	22.87	22.87	24
10	16QAM	1	25	22.86	22.91	22.77	
10	16QAM	1	49	22.99	22.89	22.86	
10	16QAM	25	0	21.84	21.87	21.62	23
10	16QAM	25	12	21.71	21.75	21.84	
10	16QAM	25	25	21.86	21.72	21.76	
10	16QAM	50	0	21.85	21.78	21.81	
10	64QAM	1	0	21.80	21.60	21.58	23
10	64QAM	1	25	21.77	21.71	21.66	
10	64QAM	1	49	21.69	21.61	21.64	
10	64QAM	25	0	20.77	20.70	20.64	22
10	64QAM	25	12	20.80	20.85	20.69	
10	64QAM	25	25	20.88	20.81	20.71	
10	64QAM	50	0	20.72	20.82	20.69	
10	256QAM	1	0	18.98	18.82	18.87	20
10	256QAM	1	25	19.02	18.95	19.03	
10	256QAM	1	49	19.02	18.87	18.99	
10	256QAM	25	0	19.09	19.08	19.04	20
10	256QAM	25	12	19.07	18.93	19.01	
10	256QAM	25	25	19.03	19.13	19.04	
10	256QAM	50	0	18.92	19.01	19.00	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.83	23.92	23.77	25
5	QPSK	1	12	23.94	23.83	23.73	
5	QPSK	1	24	23.85	23.77	23.85	
5	QPSK	12	0	22.81	22.80	22.67	24
5	QPSK	12	7	22.70	22.74	22.71	
5	QPSK	12	13	22.74	22.66	22.76	
5	QPSK	25	0	22.70	22.86	22.78	
5	16QAM	1	0	23.05	22.94	22.82	24
5	16QAM	1	12	22.90	22.97	22.87	
5	16QAM	1	24	23.00	23.00	22.91	
5	16QAM	12	0	21.74	21.74	21.63	23
5	16QAM	12	7	21.85	21.88	21.83	
5	16QAM	12	13	21.88	21.77	21.69	
5	16QAM	25	0	21.81	21.92	21.80	
5	64QAM	1	0	21.78	21.63	21.73	23
5	64QAM	1	12	21.69	21.72	21.76	
5	64QAM	1	24	21.65	21.60	21.66	
5	64QAM	12	0	20.70	20.83	20.72	22
5	64QAM	12	7	20.85	20.86	20.82	
5	64QAM	12	13	20.88	20.68	20.73	
5	64QAM	25	0	20.72	20.75	20.79	
5	256QAM	1	0	19.14	18.83	18.81	20
5	256QAM	1	12	18.87	18.90	19.06	
5	256QAM	1	24	18.93	18.94	18.88	
5	256QAM	12	0	19.02	19.00	19.02	20
5	256QAM	12	7	18.98	18.98	18.94	
5	256QAM	12	13	18.94	19.09	19.05	
5	256QAM	25	0	19.02	19.04	19.00	



<LTE Band 38_Ant 5_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.47	23.35	23.61	25
20	QPSK	1	49	23.32	23.33	23.54	
20	QPSK	1	99	23.36	23.38	23.58	
20	QPSK	50	0	22.38	22.33	22.53	24
20	QPSK	50	24	22.31	22.28	22.50	
20	QPSK	50	50	22.38	22.25	22.46	
20	QPSK	100	0	22.35	22.28	22.49	24
20	16QAM	1	0	22.54	22.47	22.72	
20	16QAM	1	49	22.36	22.30	22.58	
20	16QAM	1	99	22.48	22.41	22.71	23
20	16QAM	50	0	21.31	21.36	21.56	
20	16QAM	50	24	21.31	21.25	21.44	
20	16QAM	50	50	21.35	21.26	21.43	23
20	16QAM	100	0	21.37	21.33	21.58	
20	64QAM	1	0	21.36	21.40	21.47	
20	64QAM	1	49	21.21	21.20	21.39	23
20	64QAM	1	99	21.21	21.30	21.35	
20	64QAM	50	0	20.41	20.25	20.55	
20	64QAM	50	24	20.33	20.35	20.54	22
20	64QAM	50	50	20.32	20.26	20.44	
20	64QAM	100	0	20.38	20.30	20.55	
20	256QAM	1	0	18.56	18.65	18.68	20
20	256QAM	1	49	18.49	18.41	18.66	
20	256QAM	1	99	18.42	18.54	18.58	
20	256QAM	50	0	18.65	18.46	18.82	20
20	256QAM	50	24	18.60	18.57	18.79	
20	256QAM	50	50	18.57	18.55	18.72	
20	256QAM	100	0	18.66	18.54	18.80	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.30	23.28	23.41	25
15	QPSK	1	37	23.18	23.25	23.54	
15	QPSK	1	74	23.33	23.20	23.49	
15	QPSK	36	0	22.27	22.22	22.46	24
15	QPSK	36	20	22.29	22.11	22.47	
15	QPSK	36	39	22.27	22.22	22.36	
15	QPSK	75	0	22.35	22.19	22.30	24
15	16QAM	1	0	22.52	22.29	22.72	
15	16QAM	1	37	22.27	22.14	22.46	
15	16QAM	1	74	22.41	22.35	22.53	23
15	16QAM	36	0	21.27	21.22	21.54	
15	16QAM	36	20	21.14	21.12	21.26	
15	16QAM	36	39	21.32	21.24	21.30	23
15	16QAM	75	0	21.36	21.13	21.49	
15	64QAM	1	0	21.23	21.21	21.30	
15	64QAM	1	37	21.05	21.04	21.39	23
15	64QAM	1	74	21.15	21.29	21.30	
15	64QAM	36	0	20.34	20.21	20.46	
15	64QAM	36	20	20.22	20.28	20.39	22
15	64QAM	36	39	20.25	20.17	20.24	
15	64QAM	75	0	20.29	20.25	20.37	
15	256QAM	1	0	18.44	18.60	18.54	20
15	256QAM	1	37	18.37	18.32	18.52	
15	256QAM	1	74	18.34	18.52	18.54	
15	256QAM	36	0	18.45	18.44	18.68	20
15	256QAM	36	20	18.48	18.43	18.64	
15	256QAM	36	39	18.49	18.38	18.68	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	18.56	18.38	18.69	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.30	23.29	23.57	25
10	QPSK	1	25	23.31	23.25	23.38	
10	QPSK	1	49	23.24	23.28	23.49	
10	QPSK	25	0	22.34	22.20	22.40	24
10	QPSK	25	12	22.25	22.24	22.31	
10	QPSK	25	25	22.31	22.08	22.34	
10	QPSK	50	0	22.20	22.09	22.48	24
10	16QAM	1	0	22.43	22.44	22.53	
10	16QAM	1	25	22.33	22.27	22.45	
10	16QAM	1	49	22.37	22.41	22.53	23
10	16QAM	25	0	21.14	21.17	21.39	
10	16QAM	25	12	21.26	21.09	21.44	
10	16QAM	25	25	21.15	21.06	21.38	23
10	16QAM	50	0	21.31	21.17	21.52	
10	64QAM	1	0	21.17	21.28	21.45	
10	64QAM	1	25	21.01	21.12	21.23	23
10	64QAM	1	49	21.19	21.26	21.33	
10	64QAM	25	0	20.32	20.24	20.41	
10	64QAM	25	12	20.30	20.22	20.45	22
10	64QAM	25	25	20.16	20.12	20.28	
10	64QAM	50	0	20.36	20.11	20.49	
10	256QAM	1	0	18.48	18.57	18.49	20
10	256QAM	1	25	18.49	18.25	18.58	
10	256QAM	1	49	18.34	18.41	18.41	
10	256QAM	25	0	18.52	18.35	18.73	20
10	256QAM	25	12	18.41	18.57	18.60	
10	256QAM	25	25	18.55	18.40	18.72	
10	256QAM	50	0	18.56	18.42	18.67	20
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.46	23.20	23.44	25
5	QPSK	1	12	23.22	23.22	23.54	
5	QPSK	1	24	23.36	23.37	23.39	
5	QPSK	12	0	22.24	22.29	22.36	24
5	QPSK	12	7	22.23	22.24	22.31	
5	QPSK	12	13	22.29	22.23	22.31	
5	QPSK	25	0	22.15	22.27	22.31	24
5	16QAM	1	0	22.43	22.41	22.61	
5	16QAM	1	12	22.19	22.20	22.53	
5	16QAM	1	24	22.37	22.41	22.54	23
5	16QAM	12	0	21.21	21.18	21.41	
5	16QAM	12	7	21.17	21.25	21.37	
5	16QAM	12	13	21.31	21.22	21.38	23
5	16QAM	25	0	21.35	21.26	21.58	
5	64QAM	1	0	21.33	21.28	21.44	
5	64QAM	1	12	21.02	21.01	21.20	23
5	64QAM	1	24	21.05	21.28	21.27	
5	64QAM	12	0	20.22	20.24	20.49	
5	64QAM	12	7	20.19	20.29	20.35	22
5	64QAM	12	13	20.24	20.10	20.43	
5	64QAM	25	0	20.33	20.13	20.47	
5	256QAM	1	0	18.42	18.54	18.56	20
5	256QAM	1	12	18.41	18.29	18.56	
5	256QAM	1	24	18.23	18.44	18.38	
5	256QAM	12	0	18.63	18.36	18.72	20
5	256QAM	12	7	18.50	18.39	18.68	
5	256QAM	12	13	18.46	18.52	18.54	
5	256QAM	25	0	18.51	18.52	18.65	



<LTE Band 38_Ant 2_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.13	20.19	20.16	20.2
20	QPSK	1	49	20.12	20.18	20.16	
20	QPSK	1	99	20.13	20.17	20.15	
20	QPSK	50	0	20.15	20.17	20.16	20.2
20	QPSK	50	24	20.13	20.16	20.15	
20	QPSK	50	50	20.11	20.15	20.14	
20	QPSK	100	0	20.14	20.14	20.13	20.2
20	16QAM	1	0	20.04	20.13	20.02	
20	16QAM	1	49	20.00	20.09	20.07	
20	16QAM	1	99	20.04	20.13	19.98	20.2
20	16QAM	50	0	20.15	20.15	20.15	
20	16QAM	50	24	20.14	20.15	20.15	
20	16QAM	50	50	20.16	20.13	20.15	20.2
20	16QAM	100	0	20.15	20.09	20.15	
20	64QAM	1	0	19.99	20.05	20.04	
20	64QAM	1	49	19.99	20.01	20.03	20.2
20	64QAM	1	99	20.03	20.09	20.05	
20	64QAM	50	0	20.12	20.15	20.14	
20	64QAM	50	24	20.14	20.14	20.16	20.2
20	64QAM	50	50	20.16	20.16	20.15	
20	64QAM	100	0	20.10	20.17	20.14	
20	256QAM	1	0	19.39	19.35	19.25	20
20	256QAM	1	49	19.36	19.55	19.27	
20	256QAM	1	99	19.54	19.30	19.55	
20	256QAM	50	0	19.64	19.46	19.57	20
20	256QAM	50	24	19.66	19.61	19.47	
20	256QAM	50	50	19.41	19.70	19.52	
20	256QAM	100	0	19.52	19.60	19.77	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.00	20.17	19.96	20.2
15	QPSK	1	37	19.96	20.02	20.07	
15	QPSK	1	74	20.11	20.13	20.00	
15	QPSK	36	0	20.07	20.00	20.08	20.2
15	QPSK	36	20	20.12	20.00	20.08	
15	QPSK	36	39	20.09	20.01	19.99	
15	QPSK	75	0	20.08	19.96	20.13	20.2
15	16QAM	1	0	19.85	19.94	19.85	
15	16QAM	1	37	19.89	20.08	20.00	
15	16QAM	1	74	19.86	20.12	19.83	20.2
15	16QAM	36	0	19.99	20.10	20.09	
15	16QAM	36	20	20.12	20.04	20.07	
15	16QAM	36	39	20.05	19.97	20.13	20.2
15	16QAM	75	0	19.98	20.09	20.03	
15	64QAM	1	0	19.90	19.95	19.97	
15	64QAM	1	37	19.94	20.01	19.91	20.2
15	64QAM	1	74	19.92	19.98	19.88	
15	64QAM	36	0	20.02	20.09	20.10	
15	64QAM	36	20	20.12	19.96	20.05	20.2
15	64QAM	36	39	19.97	19.99	20.12	
15	64QAM	75	0	19.97	20.04	20.05	
15	256QAM	1	0	19.19	19.19	19.06	20
15	256QAM	1	37	19.35	19.52	19.23	
15	256QAM	1	74	19.41	19.22	19.43	
15	256QAM	36	0	19.46	19.29	19.44	20
15	256QAM	36	20	19.64	19.59	19.47	
15	256QAM	36	39	19.25	19.60	19.50	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.41	19.49	19.66	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.98	20.05	20.01	20.2
10	QPSK	1	25	20.09	20.04	19.96	
10	QPSK	1	49	20.06	20.04	20.04	
10	QPSK	25	0	20.11	20.17	20.00	20.2
10	QPSK	25	12	19.94	20.00	20.08	
10	QPSK	25	25	20.09	20.15	20.00	
10	QPSK	50	0	20.12	19.95	20.04	
10	16QAM	1	0	19.99	20.08	19.87	20.2
10	16QAM	1	25	19.85	20.09	19.87	
10	16QAM	1	49	19.97	20.05	19.88	
10	16QAM	25	0	20.12	20.02	20.06	20.2
10	16QAM	25	12	19.97	19.95	20.11	
10	16QAM	25	25	20.11	20.07	20.04	
10	16QAM	50	0	19.96	19.98	19.97	
10	64QAM	1	0	19.94	19.89	19.87	20.2
10	64QAM	1	25	19.84	19.96	20.00	
10	64QAM	1	49	19.94	19.92	19.96	
10	64QAM	25	0	19.98	20.06	19.99	20.2
10	64QAM	25	12	19.97	20.07	20.04	
10	64QAM	25	25	20.02	20.06	20.03	
10	64QAM	50	0	19.95	19.99	20.03	
10	256QAM	1	0	19.33	19.24	19.08	20
10	256QAM	1	25	19.35	19.41	19.17	
10	256QAM	1	49	19.40	19.27	19.35	
10	256QAM	25	0	19.53	19.41	19.49	20
10	256QAM	25	12	19.53	19.57	19.32	
10	256QAM	25	25	19.23	19.70	19.42	
10	256QAM	50	0	19.44	19.53	19.59	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.97	20.09	20.15	20.2
5	QPSK	1	12	20.11	20.03	20.00	
5	QPSK	1	24	20.07	20.10	20.01	
5	QPSK	12	0	19.98	20.12	19.96	20.2
5	QPSK	12	7	20.12	20.12	19.96	
5	QPSK	12	13	19.98	19.95	19.96	
5	QPSK	25	0	19.98	20.11	19.96	
5	16QAM	1	0	19.89	20.02	19.87	20.2
5	16QAM	1	12	19.85	20.00	19.96	
5	16QAM	1	24	19.87	20.02	19.96	
5	16QAM	12	0	20.13	20.09	20.05	20.2
5	16QAM	12	7	20.06	20.02	19.96	
5	16QAM	12	13	20.05	19.98	20.02	
5	16QAM	25	0	19.99	20.02	20.01	
5	64QAM	1	0	19.82	19.93	20.00	20.2
5	64QAM	1	12	19.86	19.98	19.95	
5	64QAM	1	24	19.91	19.92	19.86	
5	64QAM	12	0	20.11	20.12	20.09	20.2
5	64QAM	12	7	19.96	20.14	20.06	
5	64QAM	12	13	20.09	20.06	20.01	
5	64QAM	25	0	20.04	19.97	20.03	
5	256QAM	1	0	19.36	19.20	19.05	20
5	256QAM	1	12	19.30	19.36	19.09	
5	256QAM	1	24	19.53	19.12	19.53	
5	256QAM	12	0	19.64	19.41	19.52	20
5	256QAM	12	7	19.61	19.45	19.44	
5	256QAM	12	13	19.41	19.56	19.35	
5	256QAM	25	0	19.47	19.60	19.62	



<LTE Band 38_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.07	19.96	19.94	
20	QPSK	1	49	19.95	19.96	19.86	20.7
20	QPSK	1	99	19.92	19.88	19.89	
20	QPSK	50	0	20.02	19.90	19.81	
20	QPSK	50	24	19.89	19.85	19.76	20.7
20	QPSK	50	50	19.92	19.89	19.78	
20	QPSK	100	0	19.95	19.85	19.94	
20	16QAM	1	0	20.06	19.85	19.82	20.7
20	16QAM	1	49	19.91	19.95	19.90	
20	16QAM	1	99	19.87	19.78	19.83	
20	16QAM	50	0	20.01	19.90	19.74	20.7
20	16QAM	50	24	19.91	19.78	19.93	
20	16QAM	50	50	19.93	19.77	19.75	
20	16QAM	100	0	19.97	19.94	19.94	20.7
20	64QAM	1	0	19.95	19.93	19.87	
20	64QAM	1	49	20.06	19.89	19.94	
20	64QAM	1	99	20.02	19.82	19.93	20.7
20	64QAM	50	0	19.99	19.91	19.80	
20	64QAM	50	24	20.04	19.78	19.76	
20	64QAM	50	50	20.06	19.95	19.77	20.7
20	64QAM	100	0	19.90	19.95	19.93	
20	256QAM	1	0	19.38	19.38	19.39	
20	256QAM	1	49	19.47	19.46	19.27	20
20	256QAM	1	99	19.43	19.39	19.24	
20	256QAM	50	0	19.54	19.26	19.31	
20	256QAM	50	24	19.47	19.26	19.29	20
20	256QAM	50	50	19.46	19.36	19.38	
20	256QAM	100	0	19.45	19.43	19.38	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.06	19.83	19.84	
15	QPSK	1	37	19.94	19.77	19.76	20.7
15	QPSK	1	74	19.92	19.74	19.86	
15	QPSK	36	0	19.97	19.83	19.78	
15	QPSK	36	20	19.69	19.84	19.60	20.7
15	QPSK	36	39	19.73	19.76	19.77	
15	QPSK	75	0	19.76	19.70	19.76	
15	16QAM	1	0	20.04	19.84	19.79	20.7
15	16QAM	1	37	19.78	19.90	19.71	
15	16QAM	1	74	19.78	19.61	19.65	
15	16QAM	36	0	19.96	19.81	19.56	20.7
15	16QAM	36	20	19.71	19.60	19.90	
15	16QAM	36	39	19.81	19.70	19.71	
15	16QAM	75	0	19.91	19.75	19.76	20.7
15	64QAM	1	0	19.75	19.89	19.87	
15	64QAM	1	37	19.93	19.81	19.91	
15	64QAM	1	74	20.00	19.81	19.77	20.7
15	64QAM	36	0	19.99	19.76	19.66	
15	64QAM	36	20	19.89	19.75	19.63	
15	64QAM	36	39	19.94	19.89	19.68	20.7
15	64QAM	75	0	19.85	19.86	19.75	
15	256QAM	1	0	19.33	19.31	19.31	
15	256QAM	1	37	19.28	19.34	19.13	20
15	256QAM	1	74	19.25	19.39	19.23	
15	256QAM	36	0	19.50	19.24	19.27	
15	256QAM	36	20	19.34	19.07	19.19	20
15	256QAM	36	39	19.41	19.16	19.18	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.33	19.40	19.21	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.01	19.92	19.75	20.7
10	QPSK	1	25	19.84	19.77	19.85	
10	QPSK	1	49	19.90	19.88	19.71	
10	QPSK	25	0	19.97	19.70	19.66	20.7
10	QPSK	25	12	19.80	19.74	19.68	
10	QPSK	25	25	19.73	19.80	19.70	
10	QPSK	50	0	19.78	19.65	19.86	
10	16QAM	1	0	19.94	19.77	19.79	20.7
10	16QAM	1	25	19.80	19.95	19.74	
10	16QAM	1	49	19.85	19.66	19.82	
10	16QAM	25	0	19.83	19.82	19.63	20.7
10	16QAM	25	12	19.91	19.73	19.92	
10	16QAM	25	25	19.91	19.75	19.75	
10	16QAM	50	0	19.77	19.84	19.88	
10	64QAM	1	0	19.82	19.73	19.85	20.7
10	64QAM	1	25	20.06	19.88	19.76	
10	64QAM	1	49	19.98	19.80	19.75	
10	64QAM	25	0	19.87	19.72	19.62	20.7
10	64QAM	25	12	19.85	19.78	19.61	
10	64QAM	25	25	20.04	19.85	19.77	
10	64QAM	50	0	19.74	19.95	19.92	
10	256QAM	1	0	19.30	19.30	19.22	20
10	256QAM	1	25	19.28	19.41	19.27	
10	256QAM	1	49	19.28	19.29	19.19	
10	256QAM	25	0	19.44	19.11	19.26	20
10	256QAM	25	12	19.38	19.17	19.13	
10	256QAM	25	25	19.41	19.26	19.36	
10	256QAM	50	0	19.43	19.40	19.27	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.06	19.95	19.79	20.7
5	QPSK	1	12	19.79	19.77	19.66	
5	QPSK	1	24	19.82	19.76	19.85	
5	QPSK	12	0	19.97	19.79	19.63	20.7
5	QPSK	12	7	19.70	19.79	19.75	
5	QPSK	12	13	19.88	19.80	19.67	
5	QPSK	25	0	19.89	19.83	19.91	
5	16QAM	1	0	19.89	19.81	19.69	20.7
5	16QAM	1	12	19.91	19.88	19.70	
5	16QAM	1	24	19.72	19.66	19.74	
5	16QAM	12	0	19.95	19.78	19.56	20.7
5	16QAM	12	7	19.85	19.69	19.84	
5	16QAM	12	13	19.74	19.58	19.71	
5	16QAM	25	0	19.90	19.92	19.82	
5	64QAM	1	0	19.92	19.73	19.68	20.7
5	64QAM	1	12	20.03	19.74	19.85	
5	64QAM	1	24	19.87	19.63	19.79	
5	64QAM	12	0	19.97	19.79	19.78	20.7
5	64QAM	12	7	20.04	19.60	19.58	
5	64QAM	12	13	19.88	19.82	19.61	
5	64QAM	25	0	19.73	19.82	19.83	
5	256QAM	1	0	19.22	19.19	19.20	20
5	256QAM	1	12	19.40	19.29	19.17	
5	256QAM	1	24	19.34	19.35	19.08	
5	256QAM	12	0	19.39	19.18	19.30	20
5	256QAM	12	7	19.40	19.17	19.17	
5	256QAM	12	13	19.38	19.35	19.34	
5	256QAM	25	0	19.27	19.37	19.30	



<LTE Band 38_Ant 0_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.49	22.45	22.30	22.9
20	QPSK	1	49	22.38	22.22	22.26	
20	QPSK	1	99	22.43	22.27	22.29	
20	QPSK	50	0	22.40	22.36	22.37	22.9
20	QPSK	50	24	22.30	22.26	22.22	
20	QPSK	50	50	22.28	22.25	22.36	
20	QPSK	100	0	22.38	22.32	22.35	22.9
20	16QAM	1	0	22.16	22.22	22.20	
20	16QAM	1	49	22.28	22.18	22.18	
20	16QAM	1	99	22.33	22.25	22.28	22.9
20	16QAM	50	0	21.85	21.88	21.97	
20	16QAM	50	24	21.92	21.96	21.95	
20	16QAM	50	50	21.99	21.84	21.81	22.9
20	16QAM	100	0	22.01	21.95	21.89	
20	64QAM	1	0	21.70	21.80	21.61	
20	64QAM	1	49	21.84	21.67	21.63	22.9
20	64QAM	1	99	21.86	21.81	21.68	
20	64QAM	50	0	20.91	21.01	20.90	
20	64QAM	50	24	21.04	20.83	20.78	22
20	64QAM	50	50	20.98	20.86	20.78	
20	64QAM	100	0	20.91	21.04	20.84	
20	256QAM	1	0	19.17	18.85	18.89	20
20	256QAM	1	49	19.06	18.86	19.08	
20	256QAM	1	99	19.16	18.99	19.06	
20	256QAM	50	0	19.12	19.13	19.01	20
20	256QAM	50	24	19.10	19.07	19.04	
20	256QAM	50	50	19.16	19.25	19.13	
20	256QAM	100	0	19.11	19.18	19.20	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.40	22.32	22.26	22.9
15	QPSK	1	37	22.35	22.09	22.21	
15	QPSK	1	74	22.25	22.12	22.32	
15	QPSK	36	0	22.23	22.31	22.23	22.9
15	QPSK	36	20	22.16	22.08	22.07	
15	QPSK	36	39	22.17	22.22	22.34	
15	QPSK	75	0	22.11	22.17	22.31	22.9
15	16QAM	1	0	22.16	22.19	22.12	
15	16QAM	1	37	21.99	22.15	22.18	
15	16QAM	1	74	22.34	22.12	22.12	22.9
15	16QAM	36	0	21.88	21.80	21.79	
15	16QAM	36	20	21.80	21.98	21.83	
15	16QAM	36	39	21.98	21.90	21.81	22.9
15	16QAM	75	0	22.06	21.83	21.87	
15	64QAM	1	0	21.58	21.62	21.76	
15	64QAM	1	37	21.70	21.49	21.48	22.9
15	64QAM	1	74	21.58	21.80	21.53	
15	64QAM	36	0	20.84	20.75	20.82	
15	64QAM	36	20	20.81	20.69	20.77	22
15	64QAM	36	39	20.91	20.99	20.83	
15	64QAM	75	0	20.99	21.02	20.90	
15	256QAM	1	0	19.02	18.92	19.00	20
15	256QAM	1	37	18.91	18.78	19.00	
15	256QAM	1	74	19.06	18.91	18.86	
15	256QAM	36	0	18.96	18.87	18.89	20
15	256QAM	36	20	19.11	18.94	19.19	
15	256QAM	36	39	18.81	19.18	18.94	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.14	18.98	18.94	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.46	22.36	22.17	22.9
10	QPSK	1	25	22.33	22.17	22.14	
10	QPSK	1	49	22.40	22.10	22.39	
10	QPSK	25	0	22.33	22.25	22.21	22.9
10	QPSK	25	12	22.27	22.07	22.19	
10	QPSK	25	25	22.09	22.24	22.25	
10	QPSK	50	0	22.19	22.17	22.16	
10	16QAM	1	0	22.20	22.26	22.08	22.9
10	16QAM	1	25	22.24	22.13	22.14	
10	16QAM	1	49	22.34	22.14	22.31	
10	16QAM	25	0	21.74	21.76	21.94	22.9
10	16QAM	25	12	21.77	21.82	21.73	
10	16QAM	25	25	21.81	21.74	21.79	
10	16QAM	50	0	21.97	21.80	21.88	
10	64QAM	1	0	21.80	21.82	21.52	22.9
10	64QAM	1	25	21.59	21.55	21.68	
10	64QAM	1	49	21.66	21.80	21.69	
10	64QAM	25	0	20.81	20.75	20.81	22
10	64QAM	25	12	20.80	20.92	20.86	
10	64QAM	25	25	20.96	20.78	20.77	
10	64QAM	50	0	20.74	20.71	20.71	
10	256QAM	1	0	19.02	18.86	18.96	20
10	256QAM	1	25	18.82	18.98	19.09	
10	256QAM	1	49	19.02	19.03	18.92	
10	256QAM	25	0	19.16	18.96	19.13	20
10	256QAM	25	12	19.06	19.01	19.01	
10	256QAM	25	25	19.16	18.97	19.08	
10	256QAM	50	0	18.87	19.01	19.00	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.45	22.42	22.13	22.9
5	QPSK	1	12	22.36	22.06	22.22	
5	QPSK	1	24	22.29	22.16	22.27	
5	QPSK	12	0	22.33	22.33	22.33	22.9
5	QPSK	12	7	22.14	22.06	22.11	
5	QPSK	12	13	22.19	22.15	22.35	
5	QPSK	25	0	22.08	22.22	22.32	
5	16QAM	1	0	22.17	22.21	22.19	22.9
5	16QAM	1	12	22.12	22.26	22.14	
5	16QAM	1	24	22.16	22.06	22.18	
5	16QAM	12	0	21.65	21.76	21.78	22.9
5	16QAM	12	7	21.97	21.99	21.83	
5	16QAM	12	13	21.93	21.90	21.83	
5	16QAM	25	0	21.92	21.88	21.74	
5	64QAM	1	0	21.61	21.79	21.75	22.9
5	64QAM	1	12	21.67	21.70	21.61	
5	64QAM	1	24	21.69	21.68	21.78	
5	64QAM	12	0	20.70	20.77	20.92	22
5	64QAM	12	7	20.97	20.89	20.89	
5	64QAM	12	13	20.94	20.77	20.87	
5	64QAM	25	0	20.83	20.83	20.72	
5	256QAM	1	0	18.99	18.93	18.92	20
5	256QAM	1	12	18.92	18.95	19.09	
5	256QAM	1	24	18.86	18.95	18.94	
5	256QAM	12	0	19.06	18.81	18.79	20
5	256QAM	12	7	18.96	19.12	19.11	
5	256QAM	12	13	18.99	19.17	19.05	
5	256QAM	25	0	19.12	19.04	19.13	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.42	22.35	22.58	23.4
20	QPSK	1	49	22.29	22.23	22.44	
20	QPSK	1	99	22.26	22.33	22.57	
20	QPSK	50	0	22.33	22.32	22.47	23.4
20	QPSK	50	24	22.30	22.19	22.45	
20	QPSK	50	50	22.28	22.20	22.45	
20	QPSK	100	0	22.27	22.24	22.39	23.4
20	16QAM	1	0	22.50	22.46	22.52	
20	16QAM	1	49	22.35	22.27	22.52	
20	16QAM	1	99	22.42	22.31	22.48	23
20	16QAM	50	0	21.40	21.34	21.45	
20	16QAM	50	24	21.18	21.33	21.45	
20	16QAM	50	50	21.54	21.28	21.59	23
20	16QAM	100	0	21.51	21.43	21.72	
20	64QAM	1	0	21.22	21.29	21.57	
20	64QAM	1	49	21.24	21.34	21.37	22
20	64QAM	1	99	21.40	21.48	21.30	
20	64QAM	50	0	20.53	20.28	20.66	
20	64QAM	50	24	20.52	20.25	20.66	20
20	64QAM	50	50	20.38	20.35	20.37	
20	64QAM	100	0	20.35	20.36	20.72	
20	256QAM	1	0	18.56	18.78	18.52	20
20	256QAM	1	49	18.33	18.26	18.76	
20	256QAM	1	99	18.32	18.58	18.57	
20	256QAM	50	0	18.48	18.29	18.93	20
20	256QAM	50	24	18.49	18.75	18.95	
20	256QAM	50	50	18.75	18.59	18.82	
20	256QAM	100	0	18.50	18.39	18.76	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.23	22.28	22.33	23.4
15	QPSK	1	37	22.26	22.24	22.54	
15	QPSK	1	74	22.30	22.25	22.42	
15	QPSK	36	0	22.19	22.13	22.46	23.4
15	QPSK	36	20	22.28	22.07	22.44	
15	QPSK	36	39	22.24	22.17	22.32	
15	QPSK	75	0	22.35	22.17	22.30	23.4
15	16QAM	1	0	22.48	22.27	22.47	
15	16QAM	1	37	22.26	22.06	22.41	
15	16QAM	1	74	22.37	22.34	22.39	23
15	16QAM	36	0	21.31	21.11	21.38	
15	16QAM	36	20	21.06	21.31	21.25	
15	16QAM	36	39	21.26	21.28	21.28	23
15	16QAM	75	0	21.43	21.29	21.54	
15	64QAM	1	0	21.03	21.30	21.40	
15	64QAM	1	37	21.21	21.17	21.26	22
15	64QAM	1	74	21.23	21.36	21.26	
15	64QAM	36	0	20.36	20.30	20.33	
15	64QAM	36	20	20.20	20.13	20.29	20
15	64QAM	36	39	20.29	20.24	20.16	
15	64QAM	75	0	20.45	20.26	20.56	
15	256QAM	1	0	18.51	18.45	18.45	20
15	256QAM	1	37	18.53	18.35	18.52	
15	256QAM	1	74	18.44	18.56	18.70	
15	256QAM	36	0	18.30	18.45	18.50	20
15	256QAM	36	20	18.29	18.27	18.44	
15	256QAM	36	39	18.32	18.53	18.63	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	18.65	18.57	18.81	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.24	22.25	22.51	23.4
10	QPSK	1	25	22.22	22.21	22.33	
10	QPSK	1	49	22.21	22.21	22.43	
10	QPSK	25	0	22.28	22.19	22.40	23.4
10	QPSK	25	12	22.24	22.14	22.27	
10	QPSK	25	25	22.22	22.00	22.34	
10	QPSK	50	0	22.18	22.05	22.40	
10	16QAM	1	0	22.34	22.39	22.49	23.4
10	16QAM	1	25	22.32	22.22	22.39	
10	16QAM	1	49	22.27	22.33	22.51	
10	16QAM	25	0	21.28	21.21	21.40	23
10	16QAM	25	12	21.20	21.06	21.24	
10	16QAM	25	25	21.18	21.15	21.39	
10	16QAM	50	0	21.43	21.17	21.70	
10	64QAM	1	0	21.00	21.30	21.46	23
10	64QAM	1	25	21.02	21.21	21.29	
10	64QAM	1	49	21.05	21.24	21.18	
10	64QAM	25	0	20.31	20.25	20.35	22
10	64QAM	25	12	20.14	20.31	20.38	
10	64QAM	25	25	20.03	20.17	20.16	
10	64QAM	50	0	20.52	20.12	20.33	
10	256QAM	1	0	18.45	18.76	18.33	20
10	256QAM	1	25	18.29	18.05	18.64	
10	256QAM	1	49	18.24	18.22	18.25	
10	256QAM	25	0	18.42	18.35	18.87	20
10	256QAM	25	12	18.42	18.71	18.60	
10	256QAM	25	25	18.49	18.54	18.64	
10	256QAM	50	0	18.72	18.44	18.64	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.43	22.30	22.42	23.4
5	QPSK	1	12	22.36	22.38	22.48	
5	QPSK	1	24	22.28	22.29	22.36	
5	QPSK	12	0	22.16	22.19	22.32	23.4
5	QPSK	12	7	22.14	22.16	22.27	
5	QPSK	12	13	22.27	22.18	22.30	
5	QPSK	25	0	22.08	22.26	22.21	
5	16QAM	1	0	22.34	22.36	22.55	23.4
5	16QAM	1	12	22.18	22.15	22.50	
5	16QAM	1	24	22.28	22.37	22.51	
5	16QAM	12	0	21.06	21.33	21.25	23
5	16QAM	12	7	21.05	21.31	21.29	
5	16QAM	12	13	21.51	21.03	21.20	
5	16QAM	25	0	21.48	21.08	21.54	
5	64QAM	1	0	21.32	21.46	21.29	23
5	64QAM	1	12	21.20	21.02	21.01	
5	64QAM	1	24	21.08	21.09	21.47	
5	64QAM	12	0	20.19	20.39	20.64	22
5	64QAM	12	7	20.08	20.37	20.47	
5	64QAM	12	13	20.06	20.08	20.25	
5	64QAM	25	0	20.34	20.08	20.65	
5	256QAM	1	0	18.30	18.45	18.47	20
5	256QAM	1	12	18.33	18.23	18.68	
5	256QAM	1	24	18.32	18.24	18.56	
5	256QAM	12	0	18.62	18.18	18.88	20
5	256QAM	12	7	18.52	18.47	18.66	
5	256QAM	12	13	18.38	18.34	18.35	
5	256QAM	25	0	18.69	18.36	18.48	



<LTE Band 38_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.13	20.19	20.16	21
20	QPSK	1	49	20.12	20.18	20.16	
20	QPSK	1	99	20.13	20.17	20.15	
20	QPSK	50	0	20.15	20.17	20.16	21
20	QPSK	50	24	20.13	20.16	20.15	
20	QPSK	50	50	20.11	20.15	20.14	
20	QPSK	100	0	20.14	20.14	20.13	21
20	16QAM	1	0	20.04	20.13	20.02	
20	16QAM	1	49	20.00	20.09	20.07	
20	16QAM	1	99	20.04	20.13	19.98	21
20	16QAM	50	0	20.15	20.15	20.15	
20	16QAM	50	24	20.14	20.15	20.15	
20	16QAM	50	50	20.16	20.13	20.15	21
20	16QAM	100	0	20.15	20.09	20.15	
20	64QAM	1	0	19.99	20.05	20.04	
20	64QAM	1	49	19.99	20.01	20.03	21
20	64QAM	1	99	20.03	20.09	20.05	
20	64QAM	50	0	20.12	20.15	20.14	
20	64QAM	50	24	20.14	20.14	20.16	21
20	64QAM	50	50	20.16	20.16	20.15	
20	64QAM	100	0	20.10	20.17	20.14	
20	256QAM	1	0	19.39	19.35	19.25	20
20	256QAM	1	49	19.36	19.55	19.27	
20	256QAM	1	99	19.54	19.30	19.55	
20	256QAM	50	0	19.64	19.46	19.57	20
20	256QAM	50	24	19.66	19.61	19.47	
20	256QAM	50	50	19.41	19.70	19.52	
20	256QAM	100	0	19.52	19.60	19.77	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	20.00	20.17	19.96	21
15	QPSK	1	37	19.96	20.02	20.07	
15	QPSK	1	74	20.11	20.13	20.00	
15	QPSK	36	0	20.07	20.00	20.08	21
15	QPSK	36	20	20.12	20.00	20.08	
15	QPSK	36	39	20.09	20.01	19.99	
15	QPSK	75	0	20.08	19.96	20.13	21
15	16QAM	1	0	19.85	19.94	19.85	
15	16QAM	1	37	19.89	20.08	20.00	
15	16QAM	1	74	19.86	20.12	19.83	21
15	16QAM	36	0	19.99	20.10	20.09	
15	16QAM	36	20	20.12	20.04	20.07	
15	16QAM	36	39	20.05	19.97	20.13	21
15	16QAM	75	0	19.98	20.09	20.03	
15	64QAM	1	0	19.90	19.95	19.97	
15	64QAM	1	37	19.94	20.01	19.91	21
15	64QAM	1	74	19.92	19.98	19.88	
15	64QAM	36	0	20.02	20.09	20.10	
15	64QAM	36	20	20.12	19.96	20.05	21
15	64QAM	36	39	19.97	19.99	20.12	
15	64QAM	75	0	19.97	20.04	20.05	
15	256QAM	1	0	19.19	19.19	19.06	20
15	256QAM	1	37	19.35	19.52	19.23	
15	256QAM	1	74	19.41	19.22	19.43	
15	256QAM	36	0	19.46	19.29	19.44	20
15	256QAM	36	20	19.64	19.59	19.47	
15	256QAM	36	39	19.25	19.60	19.50	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.41	19.49	19.66	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.98	20.05	20.01	21
10	QPSK	1	25	20.09	20.04	19.96	
10	QPSK	1	49	20.06	20.04	20.04	
10	QPSK	25	0	20.11	20.17	20.00	21
10	QPSK	25	12	19.94	20.00	20.08	
10	QPSK	25	25	20.09	20.15	20.00	
10	QPSK	50	0	20.12	19.95	20.04	
10	16QAM	1	0	19.99	20.08	19.87	21
10	16QAM	1	25	19.85	20.09	19.87	
10	16QAM	1	49	19.97	20.05	19.88	
10	16QAM	25	0	20.12	20.02	20.06	21
10	16QAM	25	12	19.97	19.95	20.11	
10	16QAM	25	25	20.11	20.07	20.04	
10	16QAM	50	0	19.96	19.98	19.97	
10	64QAM	1	0	19.94	19.89	19.87	21
10	64QAM	1	25	19.84	19.96	20.00	
10	64QAM	1	49	19.94	19.92	19.96	
10	64QAM	25	0	19.98	20.06	19.99	21
10	64QAM	25	12	19.97	20.07	20.04	
10	64QAM	25	25	20.02	20.06	20.03	
10	64QAM	50	0	19.95	19.99	20.03	
10	256QAM	1	0	19.33	19.24	19.08	20
10	256QAM	1	25	19.35	19.41	19.17	
10	256QAM	1	49	19.40	19.27	19.35	
10	256QAM	25	0	19.53	19.41	19.49	20
10	256QAM	25	12	19.53	19.57	19.32	
10	256QAM	25	25	19.23	19.70	19.42	
10	256QAM	50	0	19.44	19.53	19.59	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.97	20.09	20.15	21
5	QPSK	1	12	20.11	20.03	20.00	
5	QPSK	1	24	20.07	20.10	20.01	
5	QPSK	12	0	19.98	20.12	19.96	21
5	QPSK	12	7	20.12	20.12	19.96	
5	QPSK	12	13	19.98	19.95	19.96	
5	QPSK	25	0	19.98	20.11	19.96	
5	16QAM	1	0	19.89	20.02	19.87	21
5	16QAM	1	12	19.85	20.00	19.96	
5	16QAM	1	24	19.87	20.02	19.96	
5	16QAM	12	0	20.13	20.09	20.05	21
5	16QAM	12	7	20.06	20.02	19.96	
5	16QAM	12	13	20.05	19.98	20.02	
5	16QAM	25	0	19.99	20.02	20.01	
5	64QAM	1	0	19.82	19.93	20.00	21
5	64QAM	1	12	19.86	19.98	19.95	
5	64QAM	1	24	19.91	19.92	19.86	
5	64QAM	12	0	20.11	20.12	20.09	21
5	64QAM	12	7	19.96	20.14	20.06	
5	64QAM	12	13	20.09	20.06	20.01	
5	64QAM	25	0	20.04	19.97	20.03	
5	256QAM	1	0	19.36	19.20	19.05	20
5	256QAM	1	12	19.30	19.36	19.09	
5	256QAM	1	24	19.53	19.12	19.53	
5	256QAM	12	0	19.64	19.41	19.52	20
5	256QAM	12	7	19.61	19.45	19.44	
5	256QAM	12	13	19.41	19.56	19.35	
5	256QAM	25	0	19.47	19.60	19.62	



<LTE Band 38_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.22	22.16	22.07	23.5
20	QPSK	1	49	22.18	22.13	21.97	
20	QPSK	1	99	22.19	21.97	21.97	
20	QPSK	50	0	22.21	22.15	22.19	23.5
20	QPSK	50	24	22.15	22.08	21.97	
20	QPSK	50	50	22.13	21.98	21.94	
20	QPSK	100	0	22.18	22.13	21.97	23.5
20	16QAM	1	0	22.19	22.13	22.17	
20	16QAM	1	49	22.17	22.11	22.18	
20	16QAM	1	99	22.20	22.15	22.18	23
20	16QAM	50	0	22.04	22.01	22.13	
20	16QAM	50	24	22.02	21.87	21.95	
20	16QAM	50	50	22.04	22.17	21.94	23
20	16QAM	100	0	22.12	22.01	22.00	
20	64QAM	1	0	22.10	21.86	22.00	
20	64QAM	1	49	22.05	21.93	22.03	23
20	64QAM	1	99	22.07	21.94	22.03	
20	64QAM	50	0	21.29	21.10	21.06	
20	64QAM	50	24	21.19	21.12	21.05	22
20	64QAM	50	50	21.24	21.04	21.11	
20	64QAM	100	0	21.15	21.04	21.23	
20	256QAM	1	0	19.42	19.18	19.34	20
20	256QAM	1	49	19.55	19.36	19.27	
20	256QAM	1	99	19.37	19.45	19.42	
20	256QAM	50	0	19.48	19.27	19.34	20
20	256QAM	50	24	19.48	19.34	19.29	
20	256QAM	50	50	19.42	19.36	19.35	
20	256QAM	100	0	19.40	19.39	19.32	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.03	22.07	22.07	23.5
15	QPSK	1	37	22.14	22.08	22.04	
15	QPSK	1	74	21.88	21.87	21.98	
15	QPSK	36	0	22.09	22.03	22.11	23.5
15	QPSK	36	20	21.97	21.78	22.01	
15	QPSK	36	39	21.96	21.86	22.05	
15	QPSK	75	0	22.13	22.07	22.08	23.5
15	16QAM	1	0	22.07	22.04	22.11	
15	16QAM	1	37	21.99	22.06	21.88	
15	16QAM	1	74	22.08	22.06	22.09	23
15	16QAM	36	0	21.86	21.94	21.80	
15	16QAM	36	20	21.92	21.81	21.80	
15	16QAM	36	39	22.04	22.00	21.89	23
15	16QAM	75	0	22.15	21.88	21.88	
15	64QAM	1	0	21.95	21.73	22.05	
15	64QAM	1	37	22.06	21.93	21.75	23
15	64QAM	1	74	22.09	21.92	21.76	
15	64QAM	36	0	21.17	21.00	20.90	
15	64QAM	36	20	21.08	20.99	21.19	22
15	64QAM	36	39	21.10	21.13	21.00	
15	64QAM	75	0	21.25	21.04	20.87	
15	256QAM	1	0	19.36	19.03	19.43	20
15	256QAM	1	37	19.29	19.21	19.13	
15	256QAM	1	74	19.22	19.13	19.40	
15	256QAM	36	0	19.50	19.23	19.27	20
15	256QAM	36	20	19.40	19.43	19.25	
15	256QAM	36	39	19.38	19.23	19.24	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.30	19.24	19.34	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.09	22.00	21.93	23.5
10	QPSK	1	25	22.06	22.03	21.78	
10	QPSK	1	49	22.06	22.03	21.81	
10	QPSK	25	0	22.20	22.07	22.05	23.5
10	QPSK	25	12	22.08	22.02	21.92	
10	QPSK	25	25	22.13	21.86	21.97	
10	QPSK	50	0	21.93	22.00	21.84	
10	16QAM	1	0	22.13	22.08	22.05	23.5
10	16QAM	1	25	21.91	21.96	21.96	
10	16QAM	1	49	22.17	22.11	21.91	
10	16QAM	25	0	22.07	22.02	22.03	23
10	16QAM	25	12	21.99	21.69	21.87	
10	16QAM	25	25	22.03	21.96	21.93	
10	16QAM	50	0	22.09	22.02	21.85	
10	64QAM	1	0	22.05	21.77	21.74	23
10	64QAM	1	25	22.02	21.79	21.96	
10	64QAM	1	49	21.95	21.91	21.94	
10	64QAM	25	0	21.11	20.99	21.02	22
10	64QAM	25	12	21.00	20.96	20.96	
10	64QAM	25	25	21.05	20.99	21.11	
10	64QAM	50	0	21.29	21.05	21.19	
10	256QAM	1	0	19.36	19.16	19.14	20
10	256QAM	1	25	19.20	19.16	19.19	
10	256QAM	1	49	19.14	19.43	19.25	
10	256QAM	25	0	19.36	19.12	19.27	20
10	256QAM	25	12	19.20	19.25	19.46	
10	256QAM	25	25	19.28	19.39	19.19	
10	256QAM	50	0	19.42	19.32	19.19	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.04	21.96	21.90	23.5
5	QPSK	1	12	22.07	21.94	21.99	
5	QPSK	1	24	22.04	21.98	22.07	
5	QPSK	12	0	22.06	22.00	21.97	23.5
5	QPSK	12	7	22.00	21.76	21.99	
5	QPSK	12	13	22.18	22.06	21.96	
5	QPSK	25	0	21.93	21.97	21.86	
5	16QAM	1	0	22.18	22.05	21.95	23.5
5	16QAM	1	12	22.10	21.98	22.09	
5	16QAM	1	24	22.04	21.97	21.96	
5	16QAM	12	0	21.97	22.06	21.90	23
5	16QAM	12	7	22.16	21.67	21.88	
5	16QAM	12	13	21.97	21.95	21.95	
5	16QAM	25	0	22.00	21.97	22.01	
5	64QAM	1	0	21.95	21.78	21.82	23
5	64QAM	1	12	22.02	21.79	21.86	
5	64QAM	1	24	21.96	21.93	21.76	
5	64QAM	12	0	21.12	20.88	21.16	22
5	64QAM	12	7	21.16	20.99	21.14	
5	64QAM	12	13	21.24	21.07	20.98	
5	64QAM	25	0	21.17	20.97	20.97	
5	256QAM	1	0	19.53	19.17	19.33	20
5	256QAM	1	12	19.44	19.07	19.22	
5	256QAM	1	24	19.20	19.43	19.22	
5	256QAM	12	0	19.44	19.15	19.26	20
5	256QAM	12	7	19.32	19.29	19.30	
5	256QAM	12	13	19.33	19.28	19.31	
5	256QAM	25	0	19.30	19.29	19.32	



<LTE Band 38_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.49	22.45	22.30	23.7
20	QPSK	1	49	22.38	22.22	22.26	
20	QPSK	1	99	22.43	22.27	22.29	
20	QPSK	50	0	22.40	22.36	22.37	23.7
20	QPSK	50	24	22.30	22.26	22.22	
20	QPSK	50	50	22.28	22.25	22.36	
20	QPSK	100	0	22.38	22.32	22.35	23.7
20	16QAM	1	0	22.16	22.22	22.20	
20	16QAM	1	49	22.28	22.18	22.18	
20	16QAM	1	99	22.33	22.25	22.28	23
20	16QAM	50	0	21.85	21.88	21.97	
20	16QAM	50	24	21.92	21.96	21.95	
20	16QAM	50	50	21.99	21.84	21.81	23
20	16QAM	100	0	22.01	21.95	21.89	
20	64QAM	1	0	21.70	21.80	21.61	
20	64QAM	1	49	21.84	21.67	21.63	22
20	64QAM	1	99	21.86	21.81	21.68	
20	64QAM	50	0	20.91	21.01	20.90	
20	64QAM	50	24	21.04	20.83	20.78	20
20	64QAM	50	50	20.98	20.86	20.78	
20	64QAM	100	0	20.91	21.04	20.84	
20	256QAM	1	0	19.17	18.85	18.89	20
20	256QAM	1	49	19.06	18.86	19.08	
20	256QAM	1	99	19.16	18.99	19.06	
20	256QAM	50	0	19.12	19.13	19.01	20
20	256QAM	50	24	19.10	19.07	19.04	
20	256QAM	50	50	19.16	19.25	19.13	
20	256QAM	100	0	19.11	19.18	19.20	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.40	22.32	22.26	23.7
15	QPSK	1	37	22.35	22.09	22.21	
15	QPSK	1	74	22.25	22.12	22.32	
15	QPSK	36	0	22.23	22.31	22.23	23.7
15	QPSK	36	20	22.16	22.08	22.07	
15	QPSK	36	39	22.17	22.22	22.34	
15	QPSK	75	0	22.11	22.17	22.31	23.7
15	16QAM	1	0	22.16	22.19	22.12	
15	16QAM	1	37	21.99	22.15	22.18	
15	16QAM	1	74	22.34	22.12	22.12	23
15	16QAM	36	0	21.88	21.80	21.79	
15	16QAM	36	20	21.80	21.98	21.83	
15	16QAM	36	39	21.98	21.90	21.81	23
15	16QAM	75	0	22.06	21.83	21.87	
15	64QAM	1	0	21.58	21.62	21.76	
15	64QAM	1	37	21.70	21.49	21.48	22
15	64QAM	1	74	21.58	21.80	21.53	
15	64QAM	36	0	20.84	20.75	20.82	
15	64QAM	36	20	20.81	20.69	20.77	20
15	64QAM	36	39	20.91	20.99	20.83	
15	64QAM	75	0	20.99	21.02	20.90	
15	256QAM	1	0	19.02	18.92	19.00	20
15	256QAM	1	37	18.91	18.78	19.00	
15	256QAM	1	74	19.06	18.91	18.86	
15	256QAM	36	0	18.96	18.87	18.89	20
15	256QAM	36	20	19.11	18.94	19.19	
15	256QAM	36	39	18.81	19.18	18.94	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.14	18.98	18.94	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.46	22.36	22.17	23.7
10	QPSK	1	25	22.33	22.17	22.14	
10	QPSK	1	49	22.40	22.10	22.39	
10	QPSK	25	0	22.33	22.25	22.21	23.7
10	QPSK	25	12	22.27	22.07	22.19	
10	QPSK	25	25	22.09	22.24	22.25	
10	QPSK	50	0	22.19	22.17	22.16	
10	16QAM	1	0	22.20	22.26	22.08	23.7
10	16QAM	1	25	22.24	22.13	22.14	
10	16QAM	1	49	22.34	22.14	22.31	
10	16QAM	25	0	21.74	21.76	21.94	23
10	16QAM	25	12	21.77	21.82	21.73	
10	16QAM	25	25	21.81	21.74	21.79	
10	16QAM	50	0	21.97	21.80	21.88	
10	64QAM	1	0	21.80	21.82	21.52	23
10	64QAM	1	25	21.59	21.55	21.68	
10	64QAM	1	49	21.66	21.80	21.69	
10	64QAM	25	0	20.81	20.75	20.81	22
10	64QAM	25	12	20.80	20.92	20.86	
10	64QAM	25	25	20.96	20.78	20.77	
10	64QAM	50	0	20.74	20.71	20.71	
10	256QAM	1	0	19.02	18.86	18.96	20
10	256QAM	1	25	18.82	18.98	19.09	
10	256QAM	1	49	19.02	19.03	18.92	
10	256QAM	25	0	19.16	18.96	19.13	20
10	256QAM	25	12	19.06	19.01	19.01	
10	256QAM	25	25	19.16	18.97	19.08	
10	256QAM	50	0	18.87	19.01	19.00	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.45	22.42	22.13	23.7
5	QPSK	1	12	22.36	22.06	22.22	
5	QPSK	1	24	22.29	22.16	22.27	
5	QPSK	12	0	22.33	22.33	22.33	23.7
5	QPSK	12	7	22.14	22.06	22.11	
5	QPSK	12	13	22.19	22.15	22.35	
5	QPSK	25	0	22.08	22.22	22.32	
5	16QAM	1	0	22.17	22.21	22.19	23.7
5	16QAM	1	12	22.12	22.26	22.14	
5	16QAM	1	24	22.16	22.06	22.18	
5	16QAM	12	0	21.65	21.76	21.78	23
5	16QAM	12	7	21.97	21.99	21.83	
5	16QAM	12	13	21.93	21.90	21.83	
5	16QAM	25	0	21.92	21.88	21.74	
5	64QAM	1	0	21.61	21.79	21.75	23
5	64QAM	1	12	21.67	21.70	21.61	
5	64QAM	1	24	21.69	21.68	21.78	
5	64QAM	12	0	20.70	20.77	20.92	22
5	64QAM	12	7	20.97	20.89	20.89	
5	64QAM	12	13	20.94	20.77	20.87	
5	64QAM	25	0	20.83	20.83	20.72	
5	256QAM	1	0	18.99	18.93	18.92	20
5	256QAM	1	12	18.92	18.95	19.09	
5	256QAM	1	24	18.86	18.95	18.94	
5	256QAM	12	0	19.06	18.81	18.79	20
5	256QAM	12	7	18.96	19.12	19.11	
5	256QAM	12	13	18.99	19.17	19.05	
5	256QAM	25	0	19.12	19.04	19.13	



<LTE Band 38_Ant 5_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.42	22.35	22.58	24.2
20	QPSK	1	49	22.29	22.23	22.44	
20	QPSK	1	99	22.26	22.33	22.57	
20	QPSK	50	0	22.33	22.32	22.47	24
20	QPSK	50	24	22.30	22.19	22.45	
20	QPSK	50	50	22.28	22.20	22.45	
20	QPSK	100	0	22.27	22.24	22.39	24
20	16QAM	1	0	22.50	22.46	22.52	
20	16QAM	1	49	22.35	22.27	22.52	
20	16QAM	1	99	22.42	22.31	22.48	23
20	16QAM	50	0	21.40	21.34	21.45	
20	16QAM	50	24	21.18	21.33	21.45	
20	16QAM	50	50	21.54	21.28	21.59	23
20	16QAM	100	0	21.51	21.43	21.72	
20	64QAM	1	0	21.22	21.29	21.57	
20	64QAM	1	49	21.24	21.34	21.37	23
20	64QAM	1	99	21.40	21.48	21.30	
20	64QAM	50	0	20.53	20.28	20.66	
20	64QAM	50	24	20.52	20.25	20.66	22
20	64QAM	50	50	20.38	20.35	20.37	
20	64QAM	100	0	20.35	20.36	20.72	
20	256QAM	1	0	18.56	18.78	18.52	20
20	256QAM	1	49	18.33	18.26	18.76	
20	256QAM	1	99	18.32	18.58	18.57	
20	256QAM	50	0	18.48	18.29	18.93	20
20	256QAM	50	24	18.49	18.75	18.95	
20	256QAM	50	50	18.75	18.59	18.82	
20	256QAM	100	0	18.50	18.39	18.76	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.23	22.28	22.33	24.2
15	QPSK	1	37	22.26	22.24	22.54	
15	QPSK	1	74	22.30	22.25	22.42	
15	QPSK	36	0	22.19	22.13	22.46	24
15	QPSK	36	20	22.28	22.07	22.44	
15	QPSK	36	39	22.24	22.17	22.32	
15	QPSK	75	0	22.35	22.17	22.30	24
15	16QAM	1	0	22.48	22.27	22.47	
15	16QAM	1	37	22.26	22.06	22.41	
15	16QAM	1	74	22.37	22.34	22.39	23
15	16QAM	36	0	21.31	21.11	21.38	
15	16QAM	36	20	21.06	21.31	21.25	
15	16QAM	36	39	21.26	21.28	21.28	23
15	16QAM	75	0	21.43	21.29	21.54	
15	64QAM	1	0	21.03	21.30	21.40	
15	64QAM	1	37	21.21	21.17	21.26	23
15	64QAM	1	74	21.23	21.36	21.26	
15	64QAM	36	0	20.36	20.30	20.33	
15	64QAM	36	20	20.20	20.13	20.29	22
15	64QAM	36	39	20.29	20.24	20.16	
15	64QAM	75	0	20.45	20.26	20.56	
15	256QAM	1	0	18.51	18.45	18.45	20
15	256QAM	1	37	18.53	18.35	18.52	
15	256QAM	1	74	18.44	18.56	18.70	
15	256QAM	36	0	18.30	18.45	18.50	20
15	256QAM	36	20	18.29	18.27	18.44	
15	256QAM	36	39	18.32	18.53	18.63	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	18.65	18.57	18.81	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.24	22.25	22.51	24.2
10	QPSK	1	25	22.22	22.21	22.33	
10	QPSK	1	49	22.21	22.21	22.43	
10	QPSK	25	0	22.28	22.19	22.40	24
10	QPSK	25	12	22.24	22.14	22.27	
10	QPSK	25	25	22.22	22.00	22.34	
10	QPSK	50	0	22.18	22.05	22.40	
10	16QAM	1	0	22.34	22.39	22.49	24
10	16QAM	1	25	22.32	22.22	22.39	
10	16QAM	1	49	22.27	22.33	22.51	
10	16QAM	25	0	21.28	21.21	21.40	23
10	16QAM	25	12	21.20	21.06	21.24	
10	16QAM	25	25	21.18	21.15	21.39	
10	16QAM	50	0	21.43	21.17	21.70	
10	64QAM	1	0	21.00	21.30	21.46	23
10	64QAM	1	25	21.02	21.21	21.29	
10	64QAM	1	49	21.05	21.24	21.18	
10	64QAM	25	0	20.31	20.25	20.35	22
10	64QAM	25	12	20.14	20.31	20.38	
10	64QAM	25	25	20.03	20.17	20.16	
10	64QAM	50	0	20.52	20.12	20.33	
10	256QAM	1	0	18.45	18.76	18.33	20
10	256QAM	1	25	18.29	18.05	18.64	
10	256QAM	1	49	18.24	18.22	18.25	
10	256QAM	25	0	18.42	18.35	18.87	20
10	256QAM	25	12	18.42	18.71	18.60	
10	256QAM	25	25	18.49	18.54	18.64	
10	256QAM	50	0	18.72	18.44	18.64	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.43	22.30	22.42	24.2
5	QPSK	1	12	22.36	22.38	22.48	
5	QPSK	1	24	22.28	22.29	22.36	
5	QPSK	12	0	22.16	22.19	22.32	24
5	QPSK	12	7	22.14	22.16	22.27	
5	QPSK	12	13	22.27	22.18	22.30	
5	QPSK	25	0	22.08	22.26	22.21	
5	16QAM	1	0	22.34	22.36	22.55	24
5	16QAM	1	12	22.18	22.15	22.50	
5	16QAM	1	24	22.28	22.37	22.51	
5	16QAM	12	0	21.06	21.33	21.25	23
5	16QAM	12	7	21.05	21.31	21.29	
5	16QAM	12	13	21.51	21.03	21.20	
5	16QAM	25	0	21.48	21.08	21.54	
5	64QAM	1	0	21.32	21.46	21.29	23
5	64QAM	1	12	21.20	21.02	21.01	
5	64QAM	1	24	21.08	21.09	21.47	
5	64QAM	12	0	20.19	20.39	20.64	22
5	64QAM	12	7	20.08	20.37	20.47	
5	64QAM	12	13	20.06	20.08	20.25	
5	64QAM	25	0	20.34	20.08	20.65	
5	256QAM	1	0	18.30	18.45	18.47	20
5	256QAM	1	12	18.33	18.23	18.68	
5	256QAM	1	24	18.32	18.24	18.56	
5	256QAM	12	0	18.62	18.18	18.88	20
5	256QAM	12	7	18.52	18.47	18.66	
5	256QAM	12	13	18.38	18.34	18.35	
5	256QAM	25	0	18.69	18.36	18.48	



<LTE Band 38_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.13	20.19	20.16	20.2
20	QPSK	1	49	20.12	20.18	20.16	
20	QPSK	1	99	20.13	20.17	20.15	
20	QPSK	50	0	20.15	20.17	20.16	20.2
20	QPSK	50	24	20.13	20.16	20.15	
20	QPSK	50	50	20.11	20.15	20.14	
20	QPSK	100	0	20.14	20.14	20.13	20.2
20	16QAM	1	0	20.04	20.13	20.02	
20	16QAM	1	49	20.00	20.09	20.07	
20	16QAM	1	99	20.04	20.13	19.98	20.2
20	16QAM	50	0	20.15	20.15	20.15	
20	16QAM	50	24	20.14	20.15	20.15	
20	16QAM	50	50	20.16	20.13	20.15	20.2
20	16QAM	100	0	20.15	20.09	20.15	
20	64QAM	1	0	19.99	20.05	20.04	
20	64QAM	1	49	19.99	20.01	20.03	20.2
20	64QAM	1	99	20.03	20.09	20.05	
20	64QAM	50	0	20.12	20.15	20.14	
20	64QAM	50	24	20.14	20.14	20.16	20.2
20	64QAM	50	50	20.16	20.16	20.15	
20	64QAM	100	0	20.10	20.17	20.14	
20	256QAM	1	0	19.39	19.35	19.25	20
20	256QAM	1	49	19.36	19.55	19.27	
20	256QAM	1	99	19.54	19.30	19.55	
20	256QAM	50	0	19.64	19.46	19.57	20
20	256QAM	50	24	19.66	19.61	19.47	
20	256QAM	50	50	19.41	19.70	19.52	
20	256QAM	100	0	19.52	19.60	19.77	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.00	20.17	19.96	20.2
15	QPSK	1	37	19.96	20.02	20.07	
15	QPSK	1	74	20.11	20.13	20.00	
15	QPSK	36	0	20.07	20.00	20.08	20.2
15	QPSK	36	20	20.12	20.00	20.08	
15	QPSK	36	39	20.09	20.01	19.99	
15	QPSK	75	0	20.08	19.96	20.13	20.2
15	16QAM	1	0	19.85	19.94	19.85	
15	16QAM	1	37	19.89	20.08	20.00	
15	16QAM	1	74	19.86	20.12	19.83	20.2
15	16QAM	36	0	19.99	20.10	20.09	
15	16QAM	36	20	20.12	20.04	20.07	
15	16QAM	36	39	20.05	19.97	20.13	20.2
15	16QAM	75	0	19.98	20.09	20.03	
15	64QAM	1	0	19.90	19.95	19.97	
15	64QAM	1	37	19.94	20.01	19.91	20.2
15	64QAM	1	74	19.92	19.98	19.88	
15	64QAM	36	0	20.02	20.09	20.10	
15	64QAM	36	20	20.12	19.96	20.05	20.2
15	64QAM	36	39	19.97	19.99	20.12	
15	64QAM	75	0	19.97	20.04	20.05	
15	256QAM	1	0	19.19	19.19	19.06	20
15	256QAM	1	37	19.35	19.52	19.23	
15	256QAM	1	74	19.41	19.22	19.43	
15	256QAM	36	0	19.46	19.29	19.44	20
15	256QAM	36	20	19.64	19.59	19.47	
15	256QAM	36	39	19.25	19.60	19.50	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.41	19.49	19.66	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.98	20.05	20.01	20.2
10	QPSK	1	25	20.09	20.04	19.96	
10	QPSK	1	49	20.06	20.04	20.04	
10	QPSK	25	0	20.11	20.17	20.00	20.2
10	QPSK	25	12	19.94	20.00	20.08	
10	QPSK	25	25	20.09	20.15	20.00	
10	QPSK	50	0	20.12	19.95	20.04	
10	16QAM	1	0	19.99	20.08	19.87	20.2
10	16QAM	1	25	19.85	20.09	19.87	
10	16QAM	1	49	19.97	20.05	19.88	
10	16QAM	25	0	20.12	20.02	20.06	20.2
10	16QAM	25	12	19.97	19.95	20.11	
10	16QAM	25	25	20.11	20.07	20.04	
10	16QAM	50	0	19.96	19.98	19.97	
10	64QAM	1	0	19.94	19.89	19.87	20.2
10	64QAM	1	25	19.84	19.96	20.00	
10	64QAM	1	49	19.94	19.92	19.96	
10	64QAM	25	0	19.98	20.06	19.99	20.2
10	64QAM	25	12	19.97	20.07	20.04	
10	64QAM	25	25	20.02	20.06	20.03	
10	64QAM	50	0	19.95	19.99	20.03	
10	256QAM	1	0	19.33	19.24	19.08	20
10	256QAM	1	25	19.35	19.41	19.17	
10	256QAM	1	49	19.40	19.27	19.35	
10	256QAM	25	0	19.53	19.41	19.49	20
10	256QAM	25	12	19.53	19.57	19.32	
10	256QAM	25	25	19.23	19.70	19.42	
10	256QAM	50	0	19.44	19.53	19.59	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.97	20.09	20.15	20.2
5	QPSK	1	12	20.11	20.03	20.00	
5	QPSK	1	24	20.07	20.10	20.01	
5	QPSK	12	0	19.98	20.12	19.96	20.2
5	QPSK	12	7	20.12	20.12	19.96	
5	QPSK	12	13	19.98	19.95	19.96	
5	QPSK	25	0	19.98	20.11	19.96	
5	16QAM	1	0	19.89	20.02	19.87	20.2
5	16QAM	1	12	19.85	20.00	19.96	
5	16QAM	1	24	19.87	20.02	19.96	
5	16QAM	12	0	20.13	20.09	20.05	20.2
5	16QAM	12	7	20.06	20.02	19.96	
5	16QAM	12	13	20.05	19.98	20.02	
5	16QAM	25	0	19.99	20.02	20.01	
5	64QAM	1	0	19.82	19.93	20.00	20.2
5	64QAM	1	12	19.86	19.98	19.95	
5	64QAM	1	24	19.91	19.92	19.86	
5	64QAM	12	0	20.11	20.12	20.09	20.2
5	64QAM	12	7	19.96	20.14	20.06	
5	64QAM	12	13	20.09	20.06	20.01	
5	64QAM	25	0	20.04	19.97	20.03	
5	256QAM	1	0	19.36	19.20	19.05	20
5	256QAM	1	12	19.30	19.36	19.09	
5	256QAM	1	24	19.53	19.12	19.53	
5	256QAM	12	0	19.64	19.41	19.52	20
5	256QAM	12	7	19.61	19.45	19.44	
5	256QAM	12	13	19.41	19.56	19.35	
5	256QAM	25	0	19.47	19.60	19.62	



<LTE Band 38_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.22	22.16	22.07	22.7
20	QPSK	1	49	22.18	22.13	21.97	
20	QPSK	1	99	22.19	21.97	21.97	
20	QPSK	50	0	22.21	22.15	22.19	22.7
20	QPSK	50	24	22.15	22.08	21.97	
20	QPSK	50	50	22.13	21.98	21.94	
20	QPSK	100	0	22.18	22.13	21.97	22.7
20	16QAM	1	0	22.19	22.13	22.17	
20	16QAM	1	49	22.17	22.11	22.18	
20	16QAM	1	99	22.20	22.15	22.18	22.7
20	16QAM	50	0	22.04	22.01	22.13	
20	16QAM	50	24	22.02	21.87	21.95	
20	16QAM	50	50	22.04	22.17	21.94	22.7
20	16QAM	100	0	22.12	22.01	22.00	
20	64QAM	1	0	22.10	21.86	22.00	
20	64QAM	1	49	22.05	21.93	22.03	22.7
20	64QAM	1	99	22.07	21.94	22.03	
20	64QAM	50	0	21.29	21.10	21.06	
20	64QAM	50	24	21.19	21.12	21.05	22
20	64QAM	50	50	21.24	21.04	21.11	
20	64QAM	100	0	21.15	21.04	21.23	
20	256QAM	1	0	19.42	19.18	19.34	20
20	256QAM	1	49	19.55	19.36	19.27	
20	256QAM	1	99	19.37	19.45	19.42	
20	256QAM	50	0	19.48	19.27	19.34	20
20	256QAM	50	24	19.48	19.34	19.29	
20	256QAM	50	50	19.42	19.36	19.35	
20	256QAM	100	0	19.40	19.39	19.32	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.03	22.07	22.07	22.7
15	QPSK	1	37	22.14	22.08	22.04	
15	QPSK	1	74	21.88	21.87	21.98	
15	QPSK	36	0	22.09	22.03	22.11	22.7
15	QPSK	36	20	21.97	21.78	22.01	
15	QPSK	36	39	21.96	21.86	22.05	
15	QPSK	75	0	22.13	22.07	22.08	22.7
15	16QAM	1	0	22.07	22.04	22.11	
15	16QAM	1	37	21.99	22.06	21.88	
15	16QAM	1	74	22.08	22.06	22.09	22.7
15	16QAM	36	0	21.86	21.94	21.80	
15	16QAM	36	20	21.92	21.81	21.80	
15	16QAM	36	39	22.04	22.00	21.89	22.7
15	16QAM	75	0	22.15	21.88	21.88	
15	64QAM	1	0	21.95	21.73	22.05	
15	64QAM	1	37	22.06	21.93	21.75	22.7
15	64QAM	1	74	22.09	21.92	21.76	
15	64QAM	36	0	21.17	21.00	20.90	
15	64QAM	36	20	21.08	20.99	21.19	22
15	64QAM	36	39	21.10	21.13	21.00	
15	64QAM	75	0	21.25	21.04	20.87	
15	256QAM	1	0	19.36	19.03	19.43	20
15	256QAM	1	37	19.29	19.21	19.13	
15	256QAM	1	74	19.22	19.13	19.40	
15	256QAM	36	0	19.50	19.23	19.27	20
15	256QAM	36	20	19.40	19.43	19.25	
15	256QAM	36	39	19.38	19.23	19.24	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.30	19.24	19.34	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.09	22.00	21.93	22.7
10	QPSK	1	25	22.06	22.03	21.78	
10	QPSK	1	49	22.06	22.03	21.81	
10	QPSK	25	0	22.20	22.07	22.05	22.7
10	QPSK	25	12	22.08	22.02	21.92	
10	QPSK	25	25	22.13	21.86	21.97	
10	QPSK	50	0	21.93	22.00	21.84	
10	16QAM	1	0	22.13	22.08	22.05	22.7
10	16QAM	1	25	21.91	21.96	21.96	
10	16QAM	1	49	22.17	22.11	21.91	
10	16QAM	25	0	22.07	22.02	22.03	22.7
10	16QAM	25	12	21.99	21.69	21.87	
10	16QAM	25	25	22.03	21.96	21.93	
10	16QAM	50	0	22.09	22.02	21.85	
10	64QAM	1	0	22.05	21.77	21.74	22.7
10	64QAM	1	25	22.02	21.79	21.96	
10	64QAM	1	49	21.95	21.91	21.94	
10	64QAM	25	0	21.11	20.99	21.02	22
10	64QAM	25	12	21.00	20.96	20.96	
10	64QAM	25	25	21.05	20.99	21.11	
10	64QAM	50	0	21.29	21.05	21.19	
10	256QAM	1	0	19.36	19.16	19.14	20
10	256QAM	1	25	19.20	19.16	19.19	
10	256QAM	1	49	19.14	19.43	19.25	
10	256QAM	25	0	19.36	19.12	19.27	20
10	256QAM	25	12	19.20	19.25	19.46	
10	256QAM	25	25	19.28	19.39	19.19	
10	256QAM	50	0	19.42	19.32	19.19	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.04	21.96	21.90	22.7
5	QPSK	1	12	22.07	21.94	21.99	
5	QPSK	1	24	22.04	21.98	22.07	
5	QPSK	12	0	22.06	22.00	21.97	22.7
5	QPSK	12	7	22.00	21.76	21.99	
5	QPSK	12	13	22.18	22.06	21.96	
5	QPSK	25	0	21.93	21.97	21.86	
5	16QAM	1	0	22.18	22.05	21.95	22.7
5	16QAM	1	12	22.10	21.98	22.09	
5	16QAM	1	24	22.04	21.97	21.96	
5	16QAM	12	0	21.97	22.06	21.90	22.7
5	16QAM	12	7	22.16	21.67	21.88	
5	16QAM	12	13	21.97	21.95	21.95	
5	16QAM	25	0	22.00	21.97	22.01	
5	64QAM	1	0	21.95	21.78	21.82	22.7
5	64QAM	1	12	22.02	21.79	21.86	
5	64QAM	1	24	21.96	21.93	21.76	
5	64QAM	12	0	21.12	20.88	21.16	22
5	64QAM	12	7	21.16	20.99	21.14	
5	64QAM	12	13	21.24	21.07	20.98	
5	64QAM	25	0	21.17	20.97	20.97	
5	256QAM	1	0	19.53	19.17	19.33	20
5	256QAM	1	12	19.44	19.07	19.22	
5	256QAM	1	24	19.20	19.43	19.22	
5	256QAM	12	0	19.44	19.15	19.26	20
5	256QAM	12	7	19.32	19.29	19.30	
5	256QAM	12	13	19.33	19.28	19.31	
5	256QAM	25	0	19.30	19.29	19.32	



<LTE Band 38_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.49	22.45	22.30	22.9
20	QPSK	1	49	22.38	22.22	22.26	
20	QPSK	1	99	22.43	22.27	22.29	
20	QPSK	50	0	22.40	22.36	22.37	22.9
20	QPSK	50	24	22.30	22.26	22.22	
20	QPSK	50	50	22.28	22.25	22.36	
20	QPSK	100	0	22.38	22.32	22.35	22.9
20	16QAM	1	0	22.16	22.22	22.20	
20	16QAM	1	49	22.28	22.18	22.18	
20	16QAM	1	99	22.33	22.25	22.28	22.9
20	16QAM	50	0	21.85	21.88	21.97	
20	16QAM	50	24	21.92	21.96	21.95	
20	16QAM	50	50	21.99	21.84	21.81	22.9
20	16QAM	100	0	22.01	21.95	21.89	
20	64QAM	1	0	21.70	21.80	21.61	
20	64QAM	1	49	21.84	21.67	21.63	22.9
20	64QAM	1	99	21.86	21.81	21.68	
20	64QAM	50	0	20.91	21.01	20.90	
20	64QAM	50	24	21.04	20.83	20.78	22
20	64QAM	50	50	20.98	20.86	20.78	
20	64QAM	100	0	20.91	21.04	20.84	
20	256QAM	1	0	19.17	18.85	18.89	20
20	256QAM	1	49	19.06	18.86	19.08	
20	256QAM	1	99	19.16	18.99	19.06	
20	256QAM	50	0	19.12	19.13	19.01	20
20	256QAM	50	24	19.10	19.07	19.04	
20	256QAM	50	50	19.16	19.25	19.13	
20	256QAM	100	0	19.11	19.18	19.20	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.40	22.32	22.26	22.9
15	QPSK	1	37	22.35	22.09	22.21	
15	QPSK	1	74	22.25	22.12	22.32	
15	QPSK	36	0	22.23	22.31	22.23	22.9
15	QPSK	36	20	22.16	22.08	22.07	
15	QPSK	36	39	22.17	22.22	22.34	
15	QPSK	75	0	22.11	22.17	22.31	22.9
15	16QAM	1	0	22.16	22.19	22.12	
15	16QAM	1	37	21.99	22.15	22.18	
15	16QAM	1	74	22.34	22.12	22.12	22.9
15	16QAM	36	0	21.88	21.80	21.79	
15	16QAM	36	20	21.80	21.98	21.83	
15	16QAM	36	39	21.98	21.90	21.81	22.9
15	16QAM	75	0	22.06	21.83	21.87	
15	64QAM	1	0	21.58	21.62	21.76	
15	64QAM	1	37	21.70	21.49	21.48	22.9
15	64QAM	1	74	21.58	21.80	21.53	
15	64QAM	36	0	20.84	20.75	20.82	
15	64QAM	36	20	20.81	20.69	20.77	22
15	64QAM	36	39	20.91	20.99	20.83	
15	64QAM	75	0	20.99	21.02	20.90	
15	256QAM	1	0	19.02	18.92	19.00	20
15	256QAM	1	37	18.91	18.78	19.00	
15	256QAM	1	74	19.06	18.91	18.86	
15	256QAM	36	0	18.96	18.87	18.89	20
15	256QAM	36	20	19.11	18.94	19.19	
15	256QAM	36	39	18.81	19.18	18.94	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	19.14	18.98	18.94	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.46	22.36	22.17	22.9
10	QPSK	1	25	22.33	22.17	22.14	
10	QPSK	1	49	22.40	22.10	22.39	
10	QPSK	25	0	22.33	22.25	22.21	22.9
10	QPSK	25	12	22.27	22.07	22.19	
10	QPSK	25	25	22.09	22.24	22.25	
10	QPSK	50	0	22.19	22.17	22.16	
10	16QAM	1	0	22.20	22.26	22.08	22.9
10	16QAM	1	25	22.24	22.13	22.14	
10	16QAM	1	49	22.34	22.14	22.31	
10	16QAM	25	0	21.74	21.76	21.94	22.9
10	16QAM	25	12	21.77	21.82	21.73	
10	16QAM	25	25	21.81	21.74	21.79	
10	16QAM	50	0	21.97	21.80	21.88	
10	64QAM	1	0	21.80	21.82	21.52	22.9
10	64QAM	1	25	21.59	21.55	21.68	
10	64QAM	1	49	21.66	21.80	21.69	
10	64QAM	25	0	20.81	20.75	20.81	22
10	64QAM	25	12	20.80	20.92	20.86	
10	64QAM	25	25	20.96	20.78	20.77	
10	64QAM	50	0	20.74	20.71	20.71	
10	256QAM	1	0	19.02	18.86	18.96	20
10	256QAM	1	25	18.82	18.98	19.09	
10	256QAM	1	49	19.02	19.03	18.92	
10	256QAM	25	0	19.16	18.96	19.13	20
10	256QAM	25	12	19.06	19.01	19.01	
10	256QAM	25	25	19.16	18.97	19.08	
10	256QAM	50	0	18.87	19.01	19.00	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.45	22.42	22.13	22.9
5	QPSK	1	12	22.36	22.06	22.22	
5	QPSK	1	24	22.29	22.16	22.27	
5	QPSK	12	0	22.33	22.33	22.33	22.9
5	QPSK	12	7	22.14	22.06	22.11	
5	QPSK	12	13	22.19	22.15	22.35	
5	QPSK	25	0	22.08	22.22	22.32	
5	16QAM	1	0	22.17	22.21	22.19	22.9
5	16QAM	1	12	22.12	22.26	22.14	
5	16QAM	1	24	22.16	22.06	22.18	
5	16QAM	12	0	21.65	21.76	21.78	22.9
5	16QAM	12	7	21.97	21.99	21.83	
5	16QAM	12	13	21.93	21.90	21.83	
5	16QAM	25	0	21.92	21.88	21.74	
5	64QAM	1	0	21.61	21.79	21.75	22.9
5	64QAM	1	12	21.67	21.70	21.61	
5	64QAM	1	24	21.69	21.68	21.78	
5	64QAM	12	0	20.70	20.77	20.92	22
5	64QAM	12	7	20.97	20.89	20.89	
5	64QAM	12	13	20.94	20.77	20.87	
5	64QAM	25	0	20.83	20.83	20.72	
5	256QAM	1	0	18.99	18.93	18.92	20
5	256QAM	1	12	18.92	18.95	19.09	
5	256QAM	1	24	18.86	18.95	18.94	
5	256QAM	12	0	19.06	18.81	18.79	20
5	256QAM	12	7	18.96	19.12	19.11	
5	256QAM	12	13	18.99	19.17	19.05	
5	256QAM	25	0	19.12	19.04	19.13	



<LTE Band 38_Ant 5_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.42	22.35	22.58	23.4
20	QPSK	1	49	22.29	22.23	22.44	
20	QPSK	1	99	22.26	22.33	22.57	
20	QPSK	50	0	22.33	22.32	22.47	23.4
20	QPSK	50	24	22.30	22.19	22.45	
20	QPSK	50	50	22.28	22.20	22.45	
20	QPSK	100	0	22.27	22.24	22.39	23.4
20	16QAM	1	0	22.50	22.46	22.52	
20	16QAM	1	49	22.35	22.27	22.52	
20	16QAM	1	99	22.42	22.31	22.48	23
20	16QAM	50	0	21.40	21.34	21.45	
20	16QAM	50	24	21.18	21.33	21.45	
20	16QAM	50	50	21.54	21.28	21.59	23
20	16QAM	100	0	21.51	21.43	21.72	
20	64QAM	1	0	21.22	21.29	21.57	
20	64QAM	1	49	21.24	21.34	21.37	22
20	64QAM	1	99	21.40	21.48	21.30	
20	64QAM	50	0	20.53	20.28	20.66	
20	64QAM	50	24	20.52	20.25	20.66	20
20	64QAM	50	50	20.38	20.35	20.37	
20	64QAM	100	0	20.35	20.36	20.72	
20	256QAM	1	0	18.56	18.78	18.52	20
20	256QAM	1	49	18.33	18.26	18.76	
20	256QAM	1	99	18.32	18.58	18.57	
20	256QAM	50	0	18.48	18.29	18.93	20
20	256QAM	50	24	18.49	18.75	18.95	
20	256QAM	50	50	18.75	18.59	18.82	
20	256QAM	100	0	18.50	18.39	18.76	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.23	22.28	22.33	23.4
15	QPSK	1	37	22.26	22.24	22.54	
15	QPSK	1	74	22.30	22.25	22.42	
15	QPSK	36	0	22.19	22.13	22.46	23.4
15	QPSK	36	20	22.28	22.07	22.44	
15	QPSK	36	39	22.24	22.17	22.32	
15	QPSK	75	0	22.35	22.17	22.30	23.4
15	16QAM	1	0	22.48	22.27	22.47	
15	16QAM	1	37	22.26	22.06	22.41	
15	16QAM	1	74	22.37	22.34	22.39	23
15	16QAM	36	0	21.31	21.11	21.38	
15	16QAM	36	20	21.06	21.31	21.25	
15	16QAM	36	39	21.26	21.28	21.28	23
15	16QAM	75	0	21.43	21.29	21.54	
15	64QAM	1	0	21.03	21.30	21.40	
15	64QAM	1	37	21.21	21.17	21.26	22
15	64QAM	1	74	21.23	21.36	21.26	
15	64QAM	36	0	20.36	20.30	20.33	
15	64QAM	36	20	20.20	20.13	20.29	20
15	64QAM	36	39	20.29	20.24	20.16	
15	64QAM	75	0	20.45	20.26	20.56	
15	256QAM	1	0	18.51	18.45	18.45	20
15	256QAM	1	37	18.53	18.35	18.52	
15	256QAM	1	74	18.44	18.56	18.70	
15	256QAM	36	0	18.30	18.45	18.50	20
15	256QAM	36	20	18.29	18.27	18.44	
15	256QAM	36	39	18.32	18.53	18.63	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	18.65	18.57	18.81	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.24	22.25	22.51	23.4
10	QPSK	1	25	22.22	22.21	22.33	
10	QPSK	1	49	22.21	22.21	22.43	
10	QPSK	25	0	22.28	22.19	22.40	23.4
10	QPSK	25	12	22.24	22.14	22.27	
10	QPSK	25	25	22.22	22.00	22.34	
10	QPSK	50	0	22.18	22.05	22.40	
10	16QAM	1	0	22.34	22.39	22.49	23.4
10	16QAM	1	25	22.32	22.22	22.39	
10	16QAM	1	49	22.27	22.33	22.51	
10	16QAM	25	0	21.28	21.21	21.40	23
10	16QAM	25	12	21.20	21.06	21.24	
10	16QAM	25	25	21.18	21.15	21.39	
10	16QAM	50	0	21.43	21.17	21.70	
10	64QAM	1	0	21.00	21.30	21.46	23
10	64QAM	1	25	21.02	21.21	21.29	
10	64QAM	1	49	21.05	21.24	21.18	
10	64QAM	25	0	20.31	20.25	20.35	22
10	64QAM	25	12	20.14	20.31	20.38	
10	64QAM	25	25	20.03	20.17	20.16	
10	64QAM	50	0	20.52	20.12	20.33	
10	256QAM	1	0	18.45	18.76	18.33	20
10	256QAM	1	25	18.29	18.05	18.64	
10	256QAM	1	49	18.24	18.22	18.25	
10	256QAM	25	0	18.42	18.35	18.87	20
10	256QAM	25	12	18.42	18.71	18.60	
10	256QAM	25	25	18.49	18.54	18.64	
10	256QAM	50	0	18.72	18.44	18.64	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.43	22.30	22.42	23.4
5	QPSK	1	12	22.36	22.38	22.48	
5	QPSK	1	24	22.28	22.29	22.36	
5	QPSK	12	0	22.16	22.19	22.32	23.4
5	QPSK	12	7	22.14	22.16	22.27	
5	QPSK	12	13	22.27	22.18	22.30	
5	QPSK	25	0	22.08	22.26	22.21	
5	16QAM	1	0	22.34	22.36	22.55	23.4
5	16QAM	1	12	22.18	22.15	22.50	
5	16QAM	1	24	22.28	22.37	22.51	
5	16QAM	12	0	21.06	21.33	21.25	23
5	16QAM	12	7	21.05	21.31	21.29	
5	16QAM	12	13	21.51	21.03	21.20	
5	16QAM	25	0	21.48	21.08	21.54	
5	64QAM	1	0	21.32	21.46	21.29	23
5	64QAM	1	12	21.20	21.02	21.01	
5	64QAM	1	24	21.08	21.09	21.47	
5	64QAM	12	0	20.19	20.39	20.64	22
5	64QAM	12	7	20.08	20.37	20.47	
5	64QAM	12	13	20.06	20.08	20.25	
5	64QAM	25	0	20.34	20.08	20.65	
5	256QAM	1	0	18.30	18.45	18.47	20
5	256QAM	1	12	18.33	18.23	18.68	
5	256QAM	1	24	18.32	18.24	18.56	
5	256QAM	12	0	18.62	18.18	18.88	20
5	256QAM	12	7	18.52	18.47	18.66	
5	256QAM	12	13	18.38	18.34	18.35	
5	256QAM	25	0	18.69	18.36	18.48	



<LTE Band 38_HPUE_Ant 2_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.17	26.15	26.13	26.9
20	QPSK	1	49	26.10	26.10	26.07	
20	QPSK	1	99	26.12	26.04	26.11	
20	QPSK	50	0	25.18	25.17	25.15	26.9
20	QPSK	50	24	25.14	25.12	25.14	
20	QPSK	50	50	25.14	25.14	25.14	
20	QPSK	100	0	25.15	25.13	25.13	25.9
20	16QAM	1	0	25.59	25.44	25.65	
20	16QAM	1	49	25.39	25.24	25.42	
20	16QAM	1	99	25.45	25.44	25.40	24.9
20	16QAM	50	0	24.18	24.20	24.19	
20	16QAM	50	24	24.20	24.21	24.20	
20	16QAM	50	50	24.22	24.20	24.20	24.9
20	16QAM	100	0	24.15	24.15	24.15	
20	64QAM	1	0	24.42	24.45	24.40	
20	64QAM	1	49	24.40	24.44	24.43	24.9
20	64QAM	1	99	24.37	24.38	24.34	
20	64QAM	50	0	23.14	23.15	23.17	
20	64QAM	50	24	23.15	23.14	23.16	23.9
20	64QAM	50	50	23.16	23.19	23.19	
20	64QAM	100	0	23.15	23.15	23.15	
20	256QAM	1	0	21.85	21.84	21.75	21.9
20	256QAM	1	49	21.83	21.83	21.83	
20	256QAM	1	99	21.72	21.74	21.72	
20	256QAM	50	0	21.51	21.58	21.60	21.9
20	256QAM	50	24	21.52	21.53	21.59	
20	256QAM	50	50	21.53	21.57	21.64	
20	256QAM	100	0	21.56	21.56	21.60	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.97	26.01	25.96	26.9
15	QPSK	1	37	26.08	26.08	25.88	
15	QPSK	1	74	25.95	25.96	25.96	
15	QPSK	36	0	25.10	25.02	25.10	26.9
15	QPSK	36	20	25.04	24.92	25.01	
15	QPSK	36	39	25.05	25.09	24.98	
15	QPSK	75	0	24.95	25.13	25.13	25.9
15	16QAM	1	0	25.55	25.38	25.51	
15	16QAM	1	37	25.30	25.14	25.33	
15	16QAM	1	74	25.38	25.35	25.35	24.9
15	16QAM	36	0	24.08	24.18	24.13	
15	16QAM	36	20	24.09	24.18	24.12	
15	16QAM	36	39	24.06	24.07	24.06	24.9
15	16QAM	75	0	24.11	24.04	23.95	
15	64QAM	1	0	24.40	24.25	24.20	
15	64QAM	1	37	24.37	24.37	24.37	24.9
15	64QAM	1	74	24.17	24.21	24.14	
15	64QAM	36	0	23.01	23.09	23.09	
15	64QAM	36	20	23.03	23.09	23.09	23.9
15	64QAM	36	39	23.06	23.04	23.17	
15	64QAM	75	0	22.99	23.03	22.95	
15	256QAM	1	0	21.69	21.74	21.67	21.9
15	256QAM	1	37	21.72	21.69	21.76	
15	256QAM	1	74	21.53	21.59	21.62	
15	256QAM	36	0	21.40	21.58	21.50	21.9
15	256QAM	36	20	21.52	21.53	21.39	
15	256QAM	36	39	21.35	21.47	21.46	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.45	21.41	21.45	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	26.01	25.95	26.08	26.9
10	QPSK	1	25	26.05	25.96	25.89	
10	QPSK	1	49	26.02	25.93	26.10	
10	QPSK	25	0	25.02	25.16	25.01	26.9
10	QPSK	25	12	25.03	24.93	25.13	
10	QPSK	25	25	25.10	25.03	25.14	
10	QPSK	50	0	24.95	25.10	25.00	
10	16QAM	1	0	25.58	25.24	25.60	25.9
10	16QAM	1	25	25.34	25.21	25.26	
10	16QAM	1	49	25.31	25.36	25.26	
10	16QAM	25	0	24.18	24.12	24.02	24.9
10	16QAM	25	12	24.01	24.08	24.12	
10	16QAM	25	25	24.11	24.05	24.03	
10	16QAM	50	0	24.12	24.14	24.01	
10	64QAM	1	0	24.39	24.45	24.28	24.9
10	64QAM	1	25	24.27	24.35	24.24	
10	64QAM	1	49	24.21	24.26	24.21	
10	64QAM	25	0	22.95	23.03	22.97	23.9
10	64QAM	25	12	23.08	23.03	23.10	
10	64QAM	25	25	23.11	23.15	23.02	
10	64QAM	50	0	23.09	22.99	22.99	
10	256QAM	1	0	21.69	21.71	21.63	21.9
10	256QAM	1	25	21.80	21.74	21.72	
10	256QAM	1	49	21.65	21.74	21.64	
10	256QAM	25	0	21.47	21.58	21.43	21.9
10	256QAM	25	12	21.34	21.53	21.39	
10	256QAM	25	25	21.42	21.54	21.62	
10	256QAM	50	0	21.52	21.37	21.44	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.01	26.02	26.01	26.9
5	QPSK	1	12	25.97	25.90	25.98	
5	QPSK	1	24	26.02	26.04	25.98	
5	QPSK	12	0	25.07	25.15	25.07	26.9
5	QPSK	12	7	25.05	25.07	25.04	
5	QPSK	12	13	25.05	24.98	25.12	
5	QPSK	25	0	25.02	24.98	24.96	
5	16QAM	1	0	25.47	25.26	25.56	25.9
5	16QAM	1	12	25.24	25.07	25.42	
5	16QAM	1	24	25.34	25.42	25.40	
5	16QAM	12	0	24.14	24.11	24.04	24.9
5	16QAM	12	7	24.04	24.17	24.14	
5	16QAM	12	13	24.17	24.20	24.12	
5	16QAM	25	0	24.09	24.04	24.00	
5	64QAM	1	0	24.42	24.45	24.32	24.9
5	64QAM	1	12	24.31	24.30	24.33	
5	64QAM	1	24	24.37	24.28	24.15	
5	64QAM	12	0	23.13	22.95	23.15	23.9
5	64QAM	12	7	22.97	23.04	23.12	
5	64QAM	12	13	23.04	23.13	23.07	
5	64QAM	25	0	22.98	23.13	23.08	
5	256QAM	1	0	21.65	21.76	21.59	21.9
5	256QAM	1	12	21.64	21.82	21.69	
5	256QAM	1	24	21.65	21.59	21.72	
5	256QAM	12	0	21.36	21.47	21.49	21.9
5	256QAM	12	7	21.51	21.44	21.58	
5	256QAM	12	13	21.49	21.41	21.61	
5	256QAM	25	0	21.52	21.47	21.42	



<LTE Band 38_HPUE_Ant 1_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.53	21.47	21.42	
20	QPSK	1	49	21.33	21.33	21.25	
20	QPSK	1	99	21.39	21.39	21.31	
20	QPSK	50	0	21.45	21.42	21.33	21.9
20	QPSK	50	24	21.35	21.39	21.32	
20	QPSK	50	50	21.37	21.31	21.32	
20	QPSK	100	0	21.41	21.29	21.30	21.9
20	16QAM	1	0	21.52	21.47	21.30	
20	16QAM	1	49	21.49	21.30	21.37	
20	16QAM	1	99	21.51	21.41	21.39	21.9
20	16QAM	50	0	21.47	21.35	21.23	
20	16QAM	50	24	21.52	21.43	21.27	
20	16QAM	50	50	21.47	21.30	21.39	21.9
20	16QAM	100	0	21.40	21.34	21.30	
20	64QAM	1	0	21.36	21.32	21.29	
20	64QAM	1	49	21.40	21.42	21.30	21.9
20	64QAM	1	99	21.41	21.39	21.36	
20	64QAM	50	0	21.35	21.35	21.33	
20	64QAM	50	24	21.45	21.36	21.41	21.9
20	64QAM	50	50	21.48	21.35	21.31	
20	64QAM	100	0	21.52	21.44	21.29	
20	256QAM	1	0	21.43	21.27	21.39	21.9
20	256QAM	1	49	21.43	21.44	21.23	
20	256QAM	1	99	21.50	21.45	21.38	
20	256QAM	50	0	21.52	21.38	21.26	21.9
20	256QAM	50	24	21.51	21.30	21.39	
20	256QAM	50	50	21.39	21.47	21.22	
20	256QAM	100	0	21.36	21.37	21.31	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.51	21.30	21.39	
15	QPSK	1	37	21.19	21.16	21.21	
15	QPSK	1	74	21.23	21.29	21.29	
15	QPSK	36	0	21.39	21.40	21.18	21.9
15	QPSK	36	20	21.29	21.23	21.26	
15	QPSK	36	39	21.32	21.29	21.18	
15	QPSK	75	0	21.24	21.15	21.18	21.9
15	16QAM	1	0	21.38	21.34	21.22	
15	16QAM	1	37	21.49	21.14	21.21	
15	16QAM	1	74	21.44	21.26	21.35	21.9
15	16QAM	36	0	21.44	21.33	21.14	
15	16QAM	36	20	21.46	21.30	21.23	
15	16QAM	36	39	21.35	21.11	21.23	21.9
15	16QAM	75	0	21.32	21.16	21.27	
15	64QAM	1	0	21.36	21.25	21.22	
15	64QAM	1	37	21.35	21.34	21.29	21.9
15	64QAM	1	74	21.32	21.31	21.30	
15	64QAM	36	0	21.23	21.17	21.32	
15	64QAM	36	20	21.28	21.26	21.38	21.9
15	64QAM	36	39	21.31	21.35	21.14	
15	64QAM	75	0	21.45	21.39	21.10	
15	256QAM	1	0	21.43	21.17	21.25	21.9
15	256QAM	1	37	21.34	21.29	21.03	
15	256QAM	1	74	21.50	21.43	21.33	
15	256QAM	36	0	21.40	21.27	21.22	21.9
15	256QAM	36	20	21.32	21.30	21.31	
15	256QAM	36	39	21.39	21.41	21.22	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.20	21.27	21.27	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.41	21.40	21.41	21.9
10	QPSK	1	25	21.22	21.16	21.18	
10	QPSK	1	49	21.24	21.22	21.18	
10	QPSK	25	0	21.25	21.33	21.28	21.9
10	QPSK	25	12	21.19	21.33	21.18	
10	QPSK	25	25	21.26	21.23	21.24	
10	QPSK	50	0	21.24	21.15	21.25	
10	16QAM	1	0	21.36	21.47	21.21	21.9
10	16QAM	1	25	21.31	21.22	21.18	
10	16QAM	1	49	21.39	21.28	21.23	
10	16QAM	25	0	21.41	21.15	21.14	21.9
10	16QAM	25	12	21.39	21.30	21.21	
10	16QAM	25	25	21.35	21.15	21.23	
10	16QAM	50	0	21.26	21.31	21.23	
10	64QAM	1	0	21.24	21.21	21.20	21.9
10	64QAM	1	25	21.39	21.42	21.20	
10	64QAM	1	49	21.27	21.23	21.18	
10	64QAM	25	0	21.31	21.15	21.20	21.9
10	64QAM	25	12	21.37	21.30	21.29	
10	64QAM	25	25	21.34	21.17	21.13	
10	64QAM	50	0	21.51	21.39	21.25	
10	256QAM	1	0	21.34	21.12	21.37	21.9
10	256QAM	1	25	21.25	21.43	21.07	
10	256QAM	1	49	21.45	21.34	21.33	
10	256QAM	25	0	21.32	21.25	21.15	21.9
10	256QAM	25	12	21.36	21.30	21.39	
10	256QAM	25	25	21.27	21.46	21.11	
10	256QAM	50	0	21.28	21.28	21.28	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.38	21.46	21.29	21.9
5	QPSK	1	12	21.24	21.33	21.12	
5	QPSK	1	24	21.22	21.33	21.27	
5	QPSK	12	0	21.30	21.35	21.27	21.9
5	QPSK	12	7	21.25	21.24	21.13	
5	QPSK	12	13	21.30	21.14	21.28	
5	QPSK	25	0	21.33	21.11	21.19	
5	16QAM	1	0	21.36	21.30	21.21	21.9
5	16QAM	1	12	21.29	21.27	21.26	
5	16QAM	1	24	21.51	21.33	21.32	
5	16QAM	12	0	21.31	21.30	21.13	21.9
5	16QAM	12	7	21.47	21.33	21.15	
5	16QAM	12	13	21.36	21.26	21.31	
5	16QAM	25	0	21.33	21.24	21.18	
5	64QAM	1	0	21.27	21.22	21.17	21.9
5	64QAM	1	12	21.24	21.40	21.28	
5	64QAM	1	24	21.37	21.24	21.33	
5	64QAM	12	0	21.31	21.32	21.24	21.9
5	64QAM	12	7	21.28	21.27	21.37	
5	64QAM	12	13	21.45	21.27	21.27	
5	64QAM	25	0	21.45	21.44	21.11	
5	256QAM	1	0	21.43	21.26	21.32	21.9
5	256QAM	1	12	21.37	21.33	21.15	
5	256QAM	1	24	21.40	21.38	21.23	
5	256QAM	12	0	21.46	21.24	21.17	21.9
5	256QAM	12	7	21.51	21.28	21.29	
5	256QAM	12	13	21.20	21.27	21.02	
5	256QAM	25	0	21.23	21.21	21.12	



<LTE Band 38_HPUE_Ant 0_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.01	26.00	25.97	
20	QPSK	1	49	25.97	25.90	25.92	
20	QPSK	1	99	25.88	25.92	25.88	
20	QPSK	50	0	24.90	24.85	24.84	25.9
20	QPSK	50	24	24.82	24.77	24.81	
20	QPSK	50	50	24.81	24.77	24.76	
20	QPSK	100	0	24.84	24.83	24.83	25.9
20	16QAM	1	0	24.99	24.95	24.82	
20	16QAM	1	49	24.97	24.94	24.93	
20	16QAM	1	99	25.07	24.98	24.94	24.9
20	16QAM	50	0	23.87	23.83	23.81	
20	16QAM	50	24	23.84	23.82	23.81	
20	16QAM	50	50	23.84	23.86	23.84	24.9
20	16QAM	100	0	23.83	23.85	23.80	
20	64QAM	1	0	23.89	23.67	23.68	
20	64QAM	1	49	23.72	23.71	23.80	24.9
20	64QAM	1	99	23.80	23.70	23.68	
20	64QAM	50	0	22.80	22.86	22.79	
20	64QAM	50	24	22.84	22.79	22.75	23.9
20	64QAM	50	50	22.86	22.84	22.76	
20	64QAM	100	0	22.86	22.83	22.74	
20	256QAM	1	0	21.16	20.97	20.89	21.9
20	256QAM	1	49	20.99	21.01	21.03	
20	256QAM	1	99	21.00	20.94	20.95	
20	256QAM	50	0	21.01	21.14	21.07	21.9
20	256QAM	50	24	21.14	21.03	21.04	
20	256QAM	50	50	21.06	21.14	21.06	
20	256QAM	100	0	21.13	21.09	21.04	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.83	25.99	25.84	
15	QPSK	1	37	25.78	25.90	25.81	
15	QPSK	1	74	25.83	25.79	25.72	
15	QPSK	36	0	24.76	24.76	24.83	25.9
15	QPSK	36	20	24.69	24.76	24.75	
15	QPSK	36	39	24.78	24.75	24.57	
15	QPSK	75	0	24.65	24.66	24.79	25.9
15	16QAM	1	0	24.83	24.75	24.75	
15	16QAM	1	37	24.78	24.76	24.89	
15	16QAM	1	74	25.01	24.80	24.87	24.9
15	16QAM	36	0	23.76	23.64	23.74	
15	16QAM	36	20	23.79	23.76	23.78	
15	16QAM	36	39	23.77	23.70	23.76	24.9
15	16QAM	75	0	23.77	23.82	23.69	
15	64QAM	1	0	23.87	23.66	23.60	
15	64QAM	1	37	23.70	23.56	23.74	24.9
15	64QAM	1	74	23.61	23.69	23.50	
15	64QAM	36	0	22.69	22.79	22.71	
15	64QAM	36	20	22.72	22.65	22.64	23.9
15	64QAM	36	39	22.82	22.83	22.73	
15	64QAM	75	0	22.80	22.72	22.67	
15	256QAM	1	0	21.08	20.86	20.85	21.9
15	256QAM	1	37	20.81	20.90	20.87	
15	256QAM	1	74	20.82	20.85	20.77	
15	256QAM	36	0	20.83	21.12	20.91	21.9
15	256QAM	36	20	20.95	20.92	20.89	
15	256QAM	36	39	21.05	20.99	20.92	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.97	20.92	20.95	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.84	25.94	25.97	26.9
10	QPSK	1	25	25.95	25.90	25.73	
10	QPSK	1	49	25.88	25.88	25.81	
10	QPSK	25	0	24.78	24.73	24.83	25.9
10	QPSK	25	12	24.66	24.58	24.75	
10	QPSK	25	25	24.69	24.61	24.67	
10	QPSK	50	0	24.74	24.64	24.73	
10	16QAM	1	0	24.97	24.85	24.81	25.9
10	16QAM	1	25	24.86	24.81	24.92	
10	16QAM	1	49	24.88	24.92	24.90	
10	16QAM	25	0	23.71	23.69	23.66	24.9
10	16QAM	25	12	23.81	23.70	23.77	
10	16QAM	25	25	23.66	23.71	23.81	
10	16QAM	50	0	23.68	23.70	23.76	
10	64QAM	1	0	23.73	23.64	23.63	
10	64QAM	1	25	23.57	23.51	23.71	24.9
10	64QAM	1	49	23.72	23.53	23.50	
10	64QAM	25	0	22.70	22.81	22.76	
10	64QAM	25	12	22.67	22.62	22.68	23.9
10	64QAM	25	25	22.71	22.79	22.61	
10	64QAM	50	0	22.67	22.68	22.56	
10	256QAM	1	0	21.12	20.84	20.73	21.9
10	256QAM	1	25	20.95	20.91	20.97	
10	256QAM	1	49	20.96	20.79	20.84	
10	256QAM	25	0	20.99	21.06	20.97	21.9
10	256QAM	25	12	21.14	20.96	20.86	
10	256QAM	25	25	21.03	21.03	21.02	
10	256QAM	50	0	21.05	21.05	20.94	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.87	26.00	25.87	26.9
5	QPSK	1	12	25.86	25.73	25.88	
5	QPSK	1	24	25.69	25.76	25.83	
5	QPSK	12	0	24.73	24.73	24.70	25.9
5	QPSK	12	7	24.73	24.60	24.66	
5	QPSK	12	13	24.77	24.57	24.60	
5	QPSK	25	0	24.84	24.65	24.70	
5	16QAM	1	0	24.97	24.94	24.75	25.9
5	16QAM	1	12	24.79	24.81	24.76	
5	16QAM	1	24	24.88	24.89	24.90	
5	16QAM	12	0	23.81	23.78	23.75	24.9
5	16QAM	12	7	23.78	23.80	23.73	
5	16QAM	12	13	23.67	23.72	23.75	
5	16QAM	25	0	23.69	23.81	23.66	
5	64QAM	1	0	23.80	23.67	23.61	24.9
5	64QAM	1	12	23.70	23.65	23.76	
5	64QAM	1	24	23.61	23.53	23.65	
5	64QAM	12	0	22.63	22.75	22.76	23.9
5	64QAM	12	7	22.76	22.69	22.55	
5	64QAM	12	13	22.82	22.79	22.66	
5	64QAM	25	0	22.83	22.64	22.60	
5	256QAM	1	0	21.01	20.81	20.82	21.9
5	256QAM	1	12	20.79	20.95	20.87	
5	256QAM	1	24	21.00	20.77	20.86	
5	256QAM	12	0	20.84	21.09	20.93	21.9
5	256QAM	12	7	21.12	21.00	20.95	
5	256QAM	12	13	20.90	20.97	20.87	
5	256QAM	25	0	21.01	21.04	20.94	



<LTE Band 38_HPUE_Ant 5_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.45	25.38	25.54	26.9
20	QPSK	1	49	25.23	25.24	25.52	
20	QPSK	1	99	25.32	25.28	25.50	
20	QPSK	50	0	24.34	24.24	24.52	25.9
20	QPSK	50	24	24.27	24.21	24.41	
20	QPSK	50	50	24.29	24.23	24.46	
20	QPSK	100	0	24.31	24.24	24.44	
20	16QAM	1	0	24.53	24.39	24.69	25.9
20	16QAM	1	49	24.27	24.22	24.58	
20	16QAM	1	99	24.40	24.36	24.65	
20	16QAM	50	0	23.30	23.32	23.54	24.9
20	16QAM	50	24	23.28	23.25	23.37	
20	16QAM	50	50	23.31	23.25	23.34	
20	16QAM	100	0	23.27	23.32	23.52	
20	64QAM	1	0	23.28	23.31	23.42	24.9
20	64QAM	1	49	23.13	23.11	23.29	
20	64QAM	1	99	23.17	23.23	23.34	
20	64QAM	50	0	22.33	22.19	22.50	23.9
20	64QAM	50	24	22.31	22.34	22.45	
20	64QAM	50	50	22.23	22.18	22.34	
20	64QAM	100	0	22.37	22.27	22.55	
20	256QAM	1	0	20.58	20.58	20.68	21.9
20	256QAM	1	49	20.40	20.32	20.54	
20	256QAM	1	99	20.45	20.47	20.64	
20	256QAM	50	0	20.55	20.42	20.78	21.9
20	256QAM	50	24	20.53	20.54	20.73	
20	256QAM	50	50	20.44	20.40	20.57	
20	256QAM	100	0	20.60	20.57	20.75	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	25.36	25.18	25.44	26.9
15	QPSK	1	37	25.05	25.09	25.46	
15	QPSK	1	74	25.27	25.13	25.50	
15	QPSK	36	0	24.26	24.13	24.49	25.9
15	QPSK	36	20	24.23	24.10	24.30	
15	QPSK	36	39	24.24	24.15	24.39	
15	QPSK	75	0	24.21	24.06	24.26	
15	16QAM	1	0	24.43	24.33	24.61	25.9
15	16QAM	1	37	24.12	24.03	24.45	
15	16QAM	1	74	24.20	24.22	24.64	
15	16QAM	36	0	23.29	23.27	23.41	24.9
15	16QAM	36	20	23.27	23.13	23.36	
15	16QAM	36	39	23.30	23.20	23.29	
15	16QAM	75	0	23.23	23.30	23.49	
15	64QAM	1	0	23.28	23.16	23.42	24.9
15	64QAM	1	37	23.11	22.98	23.17	
15	64QAM	1	74	23.14	23.13	23.16	
15	64QAM	36	0	22.20	22.00	22.47	23.9
15	64QAM	36	20	22.25	22.23	22.25	
15	64QAM	36	39	22.15	22.05	22.22	
15	64QAM	75	0	22.17	22.23	22.47	
15	256QAM	1	0	20.50	20.41	20.58	21.9
15	256QAM	1	37	20.26	20.15	20.43	
15	256QAM	1	74	20.35	20.36	20.45	
15	256QAM	36	0	20.54	20.28	20.77	21.9
15	256QAM	36	20	20.37	20.49	20.54	
15	256QAM	36	39	20.42	20.28	20.49	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.55	20.40	20.59	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.37	25.34	25.39	26.9
10	QPSK	1	25	25.17	25.21	25.45	
10	QPSK	1	49	25.28	25.10	25.40	
10	QPSK	25	0	24.22	24.22	24.34	25.9
10	QPSK	25	12	24.13	24.12	24.21	
10	QPSK	25	25	24.14	24.20	24.26	
10	QPSK	50	0	24.22	24.18	24.33	
10	16QAM	1	0	24.52	24.34	24.69	25.9
10	16QAM	1	25	24.10	24.13	24.58	
10	16QAM	1	49	24.34	24.27	24.46	
10	16QAM	25	0	23.11	23.12	23.50	24.9
10	16QAM	25	12	23.09	23.21	23.22	
10	16QAM	25	25	23.18	23.11	23.27	
10	16QAM	50	0	23.16	23.18	23.45	
10	64QAM	1	0	23.11	23.23	23.28	24.9
10	64QAM	1	25	23.02	22.96	23.26	
10	64QAM	1	49	23.02	23.10	23.19	
10	64QAM	25	0	22.28	22.17	22.42	23.9
10	64QAM	25	12	22.12	22.20	22.30	
10	64QAM	25	25	22.06	22.00	22.32	
10	64QAM	50	0	22.27	22.11	22.46	
10	256QAM	1	0	20.42	20.48	20.58	21.9
10	256QAM	1	25	20.40	20.13	20.52	
10	256QAM	1	49	20.26	20.28	20.55	
10	256QAM	25	0	20.50	20.42	20.59	21.9
10	256QAM	25	12	20.53	20.52	20.59	
10	256QAM	25	25	20.33	20.21	20.52	
10	256QAM	50	0	20.55	20.57	20.60	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.35	25.31	25.47	26.9
5	QPSK	1	12	25.05	25.04	25.47	
5	QPSK	1	24	25.13	25.11	25.48	
5	QPSK	12	0	24.18	24.17	24.43	25.9
5	QPSK	12	7	24.14	24.06	24.29	
5	QPSK	12	13	24.14	24.09	24.34	
5	QPSK	25	0	24.29	24.06	24.26	
5	16QAM	1	0	24.49	24.35	24.63	25.9
5	16QAM	1	12	24.11	24.13	24.55	
5	16QAM	1	24	24.22	24.34	24.58	
5	16QAM	12	0	23.13	23.14	23.49	24.9
5	16QAM	12	7	23.27	23.08	23.22	
5	16QAM	12	13	23.14	23.20	23.16	
5	16QAM	25	0	23.08	23.13	23.50	
5	64QAM	1	0	23.23	23.14	23.37	24.9
5	64QAM	1	12	23.06	23.10	23.09	
5	64QAM	1	24	22.97	23.09	23.22	
5	64QAM	12	0	22.21	22.09	22.36	23.9
5	64QAM	12	7	22.11	22.25	22.33	
5	64QAM	12	13	22.05	21.99	22.26	
5	64QAM	25	0	22.36	22.14	22.50	
5	256QAM	1	0	20.51	20.41	20.63	21.9
5	256QAM	1	12	20.38	20.18	20.41	
5	256QAM	1	24	20.34	20.32	20.63	
5	256QAM	12	0	20.35	20.22	20.64	21.9
5	256QAM	12	7	20.39	20.41	20.61	
5	256QAM	12	13	20.41	20.25	20.52	
5	256QAM	25	0	20.41	20.46	20.59	



<LTE Band 38_HPUE_Ant 2_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.66	21.64	21.63	21.8
20	QPSK	1	49	21.64	21.63	21.61	
20	QPSK	1	99	21.65	21.65	21.60	
20	QPSK	50	0	21.61	21.60	21.60	21.8
20	QPSK	50	24	21.59	21.60	21.58	
20	QPSK	50	50	21.60	21.59	21.59	
20	QPSK	100	0	21.60	21.57	21.56	21.8
20	16QAM	1	0	21.58	21.56	21.60	
20	16QAM	1	49	21.23	21.24	21.21	
20	16QAM	1	99	21.60	21.59	21.57	21.8
20	16QAM	50	0	21.60	21.59	21.61	
20	16QAM	50	24	21.62	21.60	21.61	
20	16QAM	50	50	21.63	21.62	21.61	21.8
20	16QAM	100	0	21.64	21.62	21.64	
20	64QAM	1	0	21.49	21.48	21.49	
20	64QAM	1	49	21.61	21.52	21.53	21.8
20	64QAM	1	99	21.58	21.54	21.59	
20	64QAM	50	0	21.61	21.61	21.60	
20	64QAM	50	24	21.61	21.62	21.61	21.8
20	64QAM	50	50	21.61	21.63	21.61	
20	64QAM	100	0	21.63	21.63	21.61	
20	256QAM	1	0	21.61	21.61	21.56	21.8
20	256QAM	1	49	21.63	21.61	21.59	
20	256QAM	1	99	21.49	21.62	21.54	
20	256QAM	50	0	21.37	21.31	21.48	21.8
20	256QAM	50	24	21.27	21.42	21.34	
20	256QAM	50	50	21.40	21.29	21.37	
20	256QAM	100	0	21.43	21.32	21.44	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.61	21.50	21.44	21.8
15	QPSK	1	37	21.58	21.46	21.49	
15	QPSK	1	74	21.60	21.53	21.57	
15	QPSK	36	0	21.45	21.41	21.43	21.8
15	QPSK	36	20	21.56	21.48	21.38	
15	QPSK	36	39	21.47	21.53	21.57	
15	QPSK	75	0	21.46	21.41	21.36	21.8
15	16QAM	1	0	21.41	21.46	21.40	
15	16QAM	1	37	21.03	21.04	21.10	
15	16QAM	1	74	21.50	21.52	21.41	21.8
15	16QAM	36	0	21.48	21.58	21.61	
15	16QAM	36	20	21.44	21.53	21.60	
15	16QAM	36	39	21.55	21.61	21.50	21.8
15	16QAM	75	0	21.53	21.54	21.46	
15	64QAM	1	0	21.29	21.39	21.29	
15	64QAM	1	37	21.48	21.44	21.53	21.8
15	64QAM	1	74	21.44	21.43	21.39	
15	64QAM	36	0	21.46	21.44	21.58	
15	64QAM	36	20	21.47	21.59	21.43	21.8
15	64QAM	36	39	21.43	21.46	21.57	
15	64QAM	75	0	21.56	21.44	21.53	
15	256QAM	1	0	21.60	21.51	21.41	21.8
15	256QAM	1	37	21.52	21.51	21.49	
15	256QAM	1	74	21.44	21.53	21.49	
15	256QAM	36	0	21.17	21.17	21.48	21.8
15	256QAM	36	20	21.17	21.28	21.29	
15	256QAM	36	39	21.25	21.23	21.21	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.25	21.18	21.37	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.56	21.56	21.58	21.8
10	QPSK	1	25	21.53	21.54	21.50	
10	QPSK	1	49	21.53	21.59	21.40	
10	QPSK	25	0	21.59	21.40	21.50	21.8
10	QPSK	25	12	21.40	21.47	21.54	
10	QPSK	25	25	21.55	21.46	21.54	
10	QPSK	50	0	21.56	21.46	21.51	
10	16QAM	1	0	21.53	21.47	21.59	21.8
10	16QAM	1	25	21.08	21.09	21.09	
10	16QAM	1	49	21.59	21.50	21.51	
10	16QAM	25	0	21.59	21.40	21.55	21.8
10	16QAM	25	12	21.61	21.45	21.49	
10	16QAM	25	25	21.45	21.62	21.43	
10	16QAM	50	0	21.48	21.49	21.58	
10	64QAM	1	0	21.48	21.32	21.41	21.8
10	64QAM	1	25	21.58	21.38	21.50	
10	64QAM	1	49	21.46	21.54	21.47	
10	64QAM	25	0	21.61	21.51	21.40	21.8
10	64QAM	25	12	21.58	21.42	21.50	
10	64QAM	25	25	21.43	21.51	21.41	
10	64QAM	50	0	21.63	21.60	21.58	
10	256QAM	1	0	21.55	21.50	21.39	21.8
10	256QAM	1	25	21.56	21.46	21.57	
10	256QAM	1	49	21.44	21.44	21.36	
10	256QAM	25	0	21.21	21.17	21.29	21.8
10	256QAM	25	12	21.23	21.37	21.16	
10	256QAM	25	25	21.24	21.17	21.37	
10	256QAM	50	0	21.24	21.28	21.32	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.61	21.55	21.49	21.8
5	QPSK	1	12	21.48	21.58	21.58	
5	QPSK	1	24	21.53	21.53	21.49	
5	QPSK	12	0	21.58	21.60	21.50	21.8
5	QPSK	12	7	21.46	21.59	21.56	
5	QPSK	12	13	21.53	21.58	21.56	
5	QPSK	25	0	21.53	21.41	21.53	
5	16QAM	1	0	21.58	21.42	21.43	21.8
5	16QAM	1	12	21.07	21.20	21.20	
5	16QAM	1	24	21.41	21.57	21.57	
5	16QAM	12	0	21.55	21.40	21.56	21.8
5	16QAM	12	7	21.42	21.60	21.59	
5	16QAM	12	13	21.43	21.49	21.52	
5	16QAM	25	0	21.54	21.55	21.52	
5	64QAM	1	0	21.47	21.43	21.29	21.8
5	64QAM	1	12	21.49	21.38	21.46	
5	64QAM	1	24	21.43	21.45	21.53	
5	64QAM	12	0	21.58	21.55	21.60	21.8
5	64QAM	12	7	21.44	21.55	21.52	
5	64QAM	12	13	21.54	21.44	21.43	
5	64QAM	25	0	21.58	21.47	21.46	
5	256QAM	1	0	21.59	21.41	21.44	21.8
5	256QAM	1	12	21.46	21.46	21.61	
5	256QAM	1	24	21.44	21.49	21.44	
5	256QAM	12	0	21.31	21.14	21.41	21.8
5	256QAM	12	7	21.09	21.26	21.25	
5	256QAM	12	13	21.35	21.15	21.37	
5	256QAM	25	0	21.33	21.28	21.27	



<LTE Band 38_HPUE_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.53	21.47	21.42	
20	QPSK	1	49	21.33	21.33	21.25	
20	QPSK	1	99	21.39	21.39	21.31	
20	QPSK	50	0	21.45	21.42	21.33	22.3
20	QPSK	50	24	21.35	21.39	21.32	
20	QPSK	50	50	21.37	21.31	21.32	
20	QPSK	100	0	21.41	21.29	21.30	22.3
20	16QAM	1	0	21.52	21.47	21.30	
20	16QAM	1	49	21.49	21.30	21.37	
20	16QAM	1	99	21.51	21.41	21.39	22.3
20	16QAM	50	0	21.47	21.35	21.23	
20	16QAM	50	24	21.52	21.43	21.27	
20	16QAM	50	50	21.47	21.30	21.39	22.3
20	16QAM	100	0	21.40	21.34	21.30	
20	64QAM	1	0	21.36	21.32	21.29	
20	64QAM	1	49	21.40	21.42	21.30	22.3
20	64QAM	1	99	21.41	21.39	21.36	
20	64QAM	50	0	21.35	21.35	21.33	
20	64QAM	50	24	21.45	21.36	21.41	22.3
20	64QAM	50	50	21.48	21.35	21.31	
20	64QAM	100	0	21.52	21.44	21.29	
20	256QAM	1	0	21.43	21.27	21.39	22
20	256QAM	1	49	21.43	21.44	21.23	
20	256QAM	1	99	21.50	21.45	21.38	
20	256QAM	50	0	21.52	21.38	21.26	22
20	256QAM	50	24	21.51	21.30	21.39	
20	256QAM	50	50	21.39	21.47	21.22	
20	256QAM	100	0	21.36	21.37	21.31	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.51	21.30	21.39	
15	QPSK	1	37	21.19	21.16	21.21	
15	QPSK	1	74	21.23	21.29	21.29	
15	QPSK	36	0	21.39	21.40	21.18	22.3
15	QPSK	36	20	21.29	21.23	21.26	
15	QPSK	36	39	21.32	21.29	21.18	
15	QPSK	75	0	21.24	21.15	21.18	22.3
15	16QAM	1	0	21.38	21.34	21.22	
15	16QAM	1	37	21.49	21.14	21.21	
15	16QAM	1	74	21.44	21.26	21.35	22.3
15	16QAM	36	0	21.44	21.33	21.14	
15	16QAM	36	20	21.46	21.30	21.23	
15	16QAM	36	39	21.35	21.11	21.23	22.3
15	16QAM	75	0	21.32	21.16	21.27	
15	64QAM	1	0	21.36	21.25	21.22	
15	64QAM	1	37	21.35	21.34	21.29	22.3
15	64QAM	1	74	21.32	21.31	21.30	
15	64QAM	36	0	21.23	21.17	21.32	
15	64QAM	36	20	21.28	21.26	21.38	22.3
15	64QAM	36	39	21.31	21.35	21.14	
15	64QAM	75	0	21.45	21.39	21.10	
15	256QAM	1	0	21.43	21.17	21.25	22
15	256QAM	1	37	21.34	21.29	21.03	
15	256QAM	1	74	21.50	21.43	21.33	
15	256QAM	36	0	21.40	21.27	21.22	22
15	256QAM	36	20	21.32	21.30	21.31	
15	256QAM	36	39	21.39	21.41	21.22	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.20	21.27	21.27	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.41	21.40	21.41	22.3
10	QPSK	1	25	21.22	21.16	21.18	
10	QPSK	1	49	21.24	21.22	21.18	
10	QPSK	25	0	21.25	21.33	21.28	22.3
10	QPSK	25	12	21.19	21.33	21.18	
10	QPSK	25	25	21.26	21.23	21.24	
10	QPSK	50	0	21.24	21.15	21.25	22.3
10	16QAM	1	0	21.36	21.47	21.21	
10	16QAM	1	25	21.31	21.22	21.18	
10	16QAM	1	49	21.39	21.28	21.23	22.3
10	16QAM	25	0	21.41	21.15	21.14	
10	16QAM	25	12	21.39	21.30	21.21	
10	16QAM	25	25	21.35	21.15	21.23	22.3
10	16QAM	50	0	21.26	21.31	21.23	
10	64QAM	1	0	21.24	21.21	21.20	
10	64QAM	1	25	21.39	21.42	21.20	22.3
10	64QAM	1	49	21.27	21.23	21.18	
10	64QAM	25	0	21.31	21.15	21.20	
10	64QAM	25	12	21.37	21.30	21.29	22.3
10	64QAM	25	25	21.34	21.17	21.13	
10	64QAM	50	0	21.51	21.39	21.25	
10	256QAM	1	0	21.34	21.12	21.37	22
10	256QAM	1	25	21.25	21.43	21.07	
10	256QAM	1	49	21.45	21.34	21.33	
10	256QAM	25	0	21.32	21.25	21.15	22
10	256QAM	25	12	21.36	21.30	21.39	
10	256QAM	25	25	21.27	21.46	21.11	
10	256QAM	50	0	21.28	21.28	21.28	22
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.38	21.46	21.29	22.3
5	QPSK	1	12	21.24	21.33	21.12	
5	QPSK	1	24	21.22	21.33	21.27	
5	QPSK	12	0	21.30	21.35	21.27	22.3
5	QPSK	12	7	21.25	21.24	21.13	
5	QPSK	12	13	21.30	21.14	21.28	
5	QPSK	25	0	21.33	21.11	21.19	22.3
5	16QAM	1	0	21.36	21.30	21.21	
5	16QAM	1	12	21.29	21.27	21.26	
5	16QAM	1	24	21.51	21.33	21.32	22.3
5	16QAM	12	0	21.31	21.30	21.13	
5	16QAM	12	7	21.47	21.33	21.15	
5	16QAM	12	13	21.36	21.26	21.31	22.3
5	16QAM	25	0	21.33	21.24	21.18	
5	64QAM	1	0	21.27	21.22	21.17	
5	64QAM	1	12	21.24	21.40	21.28	22.3
5	64QAM	1	24	21.37	21.24	21.33	
5	64QAM	12	0	21.31	21.32	21.24	
5	64QAM	12	7	21.28	21.27	21.37	22.3
5	64QAM	12	13	21.45	21.27	21.27	
5	64QAM	25	0	21.45	21.44	21.11	
5	256QAM	1	0	21.43	21.26	21.32	22
5	256QAM	1	12	21.37	21.33	21.15	
5	256QAM	1	24	21.40	21.38	21.23	
5	256QAM	12	0	21.46	21.24	21.17	22
5	256QAM	12	7	21.51	21.28	21.29	
5	256QAM	12	13	21.20	21.27	21.02	
5	256QAM	25	0	21.23	21.21	21.12	



<LTE Band 38_HPUE_Ant 0_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.79	23.99	23.88	
20	QPSK	1	49	23.76	23.82	23.84	
20	QPSK	1	99	23.73	23.98	23.85	
20	QPSK	50	0	23.75	23.86	23.84	24.5
20	QPSK	50	24	23.72	23.80	23.75	
20	QPSK	50	50	23.74	23.76	23.72	
20	QPSK	100	0	23.79	23.79	23.66	24.5
20	16QAM	1	0	23.78	23.58	23.52	
20	16QAM	1	49	23.42	23.31	23.45	
20	16QAM	1	99	23.72	23.65	23.53	24.5
20	16QAM	50	0	23.85	23.84	23.88	
20	16QAM	50	24	23.97	23.95	23.97	
20	16QAM	50	50	23.86	23.85	23.98	24.5
20	16QAM	100	0	23.94	23.91	23.87	
20	64QAM	1	0	23.81	23.77	23.73	
20	64QAM	1	49	23.84	23.97	23.75	24.5
20	64QAM	1	99	23.80	23.69	23.84	
20	64QAM	50	0	22.81	22.95	22.82	
20	64QAM	50	24	22.82	22.91	22.92	23.9
20	64QAM	50	50	22.98	22.83	22.81	
20	64QAM	100	0	22.94	22.89	22.92	
20	256QAM	1	0	21.28	20.96	20.86	21.9
20	256QAM	1	49	21.04	20.96	21.15	
20	256QAM	1	99	20.98	20.93	20.85	
20	256QAM	50	0	21.01	21.09	21.14	21.9
20	256QAM	50	24	21.01	21.00	21.13	
20	256QAM	50	50	20.87	21.11	21.12	
20	256QAM	100	0	20.98	21.00	20.94	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.66	23.96	23.61	
15	QPSK	1	37	23.84	23.72	23.74	
15	QPSK	1	74	23.81	23.96	23.75	
15	QPSK	36	0	23.70	23.79	23.79	24.5
15	QPSK	36	20	23.64	23.72	23.63	
15	QPSK	36	39	23.66	23.72	23.61	
15	QPSK	75	0	23.61	23.59	23.46	24.5
15	16QAM	1	0	23.53	23.37	23.65	
15	16QAM	1	37	23.45	23.34	23.47	
15	16QAM	1	74	23.62	23.52	23.41	24.5
15	16QAM	36	0	23.84	23.80	23.72	
15	16QAM	36	20	23.74	23.91	23.75	
15	16QAM	36	39	23.86	23.73	23.68	24.5
15	16QAM	75	0	23.67	23.91	23.82	
15	64QAM	1	0	23.64	23.85	23.57	
15	64QAM	1	37	23.84	23.88	23.63	24.5
15	64QAM	1	74	23.74	23.59	23.69	
15	64QAM	36	0	22.83	22.84	22.74	
15	64QAM	36	20	22.81	22.63	22.69	23.9
15	64QAM	36	39	22.89	22.79	22.76	
15	64QAM	75	0	22.75	22.67	22.84	
15	256QAM	1	0	21.25	21.01	20.79	21.9
15	256QAM	1	37	20.88	20.80	21.02	
15	256QAM	1	74	20.79	20.80	20.83	
15	256QAM	36	0	20.98	21.01	21.21	21.9
15	256QAM	36	20	20.95	20.79	20.90	
15	256QAM	36	39	21.02	21.09	20.95	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.93	21.09	20.87	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.63	23.84	23.77	24.5
10	QPSK	1	25	23.76	23.74	23.70	
10	QPSK	1	49	23.67	23.79	23.68	
10	QPSK	25	0	23.56	23.86	23.68	24.5
10	QPSK	25	12	23.68	23.72	23.58	
10	QPSK	25	25	23.64	23.70	23.56	
10	QPSK	50	0	23.63	23.64	23.59	
10	16QAM	1	0	23.70	23.61	23.56	24.5
10	16QAM	1	25	23.36	23.38	23.48	
10	16QAM	1	49	23.70	23.51	23.43	
10	16QAM	25	0	23.89	23.80	23.73	24.5
10	16QAM	25	12	23.95	23.82	23.76	
10	16QAM	25	25	23.88	23.81	23.71	
10	16QAM	50	0	23.74	23.72	23.73	
10	64QAM	1	0	23.81	23.66	23.45	24.5
10	64QAM	1	25	23.78	23.83	23.66	
10	64QAM	1	49	23.67	23.63	23.62	
10	64QAM	25	0	22.71	22.71	22.74	23.9
10	64QAM	25	12	22.77	22.80	22.60	
10	64QAM	25	25	22.97	22.59	22.76	
10	64QAM	50	0	22.68	22.83	22.82	
10	256QAM	1	0	21.17	20.83	20.92	21.9
10	256QAM	1	25	21.10	20.72	21.14	
10	256QAM	1	49	20.93	20.69	20.87	
10	256QAM	25	0	20.84	20.98	21.02	21.9
10	256QAM	25	12	21.10	21.04	20.95	
10	256QAM	25	25	20.77	21.01	20.98	
10	256QAM	50	0	21.02	20.82	20.73	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.64	23.90	23.67	24.5
5	QPSK	1	12	23.85	23.76	23.73	
5	QPSK	1	24	23.71	23.84	23.77	
5	QPSK	12	0	23.60	23.82	23.64	24.5
5	QPSK	12	7	23.62	23.65	23.71	
5	QPSK	12	13	23.65	23.57	23.53	
5	QPSK	25	0	23.74	23.60	23.56	
5	16QAM	1	0	23.82	23.63	23.59	24.5
5	16QAM	1	12	23.39	23.39	23.40	
5	16QAM	1	24	23.62	23.60	23.55	
5	16QAM	12	0	23.74	23.77	23.80	24.5
5	16QAM	12	7	23.82	23.82	23.82	
5	16QAM	12	13	23.83	23.87	23.83	
5	16QAM	25	0	23.77	23.90	23.81	
5	64QAM	1	0	23.86	23.70	23.51	24.5
5	64QAM	1	12	23.71	23.86	23.50	
5	64QAM	1	24	23.66	23.63	23.77	
5	64QAM	12	0	22.65	22.75	22.62	23.9
5	64QAM	12	7	22.92	22.78	22.56	
5	64QAM	12	13	22.93	22.80	22.82	
5	64QAM	25	0	22.82	22.76	22.77	
5	256QAM	1	0	21.23	20.92	20.70	21.9
5	256QAM	1	12	20.88	20.91	21.17	
5	256QAM	1	24	21.07	20.93	20.81	
5	256QAM	12	0	20.80	20.97	21.04	21.9
5	256QAM	12	7	20.96	21.03	21.02	
5	256QAM	12	13	21.03	21.00	21.01	
5	256QAM	25	0	21.00	21.00	20.84	



<LTE Band 38_HPUE_Ant 5_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.35	24.32	24.53	25
20	QPSK	1	49	24.21	24.21	24.44	
20	QPSK	1	99	24.25	24.23	24.43	
20	QPSK	50	0	24.31	24.24	24.52	25
20	QPSK	50	24	24.19	24.15	24.32	
20	QPSK	50	50	24.25	24.17	24.42	
20	QPSK	100	0	24.28	24.19	24.44	
20	16QAM	1	0	24.44	24.31	24.45	25
20	16QAM	1	49	24.19	24.20	24.40	
20	16QAM	1	99	24.38	24.31	24.44	
20	16QAM	50	0	23.10	23.30	23.73	24.9
20	16QAM	50	24	23.28	23.12	23.25	
20	16QAM	50	50	23.27	23.38	23.32	
20	16QAM	100	0	23.37	23.19	23.52	
20	64QAM	1	0	23.22	23.45	23.56	24.9
20	64QAM	1	49	23.06	23.24	23.44	
20	64QAM	1	99	23.25	23.21	23.28	
20	64QAM	50	0	22.49	22.32	22.69	23.9
20	64QAM	50	24	22.29	22.53	22.51	
20	64QAM	50	50	22.26	22.13	22.51	
20	64QAM	100	0	22.39	22.12	22.58	
20	256QAM	1	0	20.57	20.47	20.88	21.9
20	256QAM	1	49	20.32	20.36	20.74	
20	256QAM	1	99	20.55	20.63	20.81	
20	256QAM	50	0	20.57	20.44	20.65	21.9
20	256QAM	50	24	20.49	20.60	20.84	
20	256QAM	50	50	20.63	20.50	20.55	
20	256QAM	100	0	20.54	20.43	20.86	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.34	24.12	24.44	25
15	QPSK	1	37	23.98	24.01	24.46	
15	QPSK	1	74	24.22	24.04	24.49	
15	QPSK	36	0	24.25	24.04	24.44	25
15	QPSK	36	20	24.14	24.09	24.23	
15	QPSK	36	39	24.24	24.05	24.37	
15	QPSK	75	0	24.16	23.96	24.18	
15	16QAM	1	0	24.34	24.33	24.32	25
15	16QAM	1	37	24.07	24.02	24.35	
15	16QAM	1	74	24.18	24.17	24.35	
15	16QAM	36	0	23.43	23.37	23.49	24.9
15	16QAM	36	20	23.19	23.14	23.25	
15	16QAM	36	39	23.43	23.37	23.28	
15	16QAM	75	0	23.37	23.44	23.34	
15	64QAM	1	0	23.43	22.99	23.58	24.9
15	64QAM	1	37	23.06	23.06	23.29	
15	64QAM	1	74	23.12	23.01	23.28	
15	64QAM	36	0	22.14	22.07	22.31	23.9
15	64QAM	36	20	22.19	22.41	22.21	
15	64QAM	36	39	22.33	22.25	22.02	
15	64QAM	75	0	22.04	22.27	22.59	
15	256QAM	1	0	20.70	20.54	20.49	21.9
15	256QAM	1	37	20.16	19.98	20.55	
15	256QAM	1	74	20.54	20.51	20.54	
15	256QAM	36	0	20.69	20.19	20.57	21.9
15	256QAM	36	20	20.30	20.66	20.58	
15	256QAM	36	39	20.23	20.40	20.38	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.51	20.39	20.74	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.32	24.26	24.39	25
10	QPSK	1	25	24.11	24.16	24.45	
10	QPSK	1	49	24.23	24.04	24.37	
10	QPSK	25	0	24.13	24.22	24.32	25
10	QPSK	25	12	24.09	24.12	24.14	
10	QPSK	25	25	24.06	24.16	24.25	
10	QPSK	50	0	24.14	24.16	24.26	
10	16QAM	1	0	24.45	24.24	24.39	25
10	16QAM	1	25	24.10	24.06	24.42	
10	16QAM	1	49	24.29	24.24	24.36	
10	16QAM	25	0	22.92	23.25	23.39	24.9
10	16QAM	25	12	23.01	23.05	23.10	
10	16QAM	25	25	23.06	23.14	23.41	
10	16QAM	50	0	23.34	23.34	23.65	
10	64QAM	1	0	22.98	23.35	23.46	24.9
10	64QAM	1	25	22.94	23.04	23.12	
10	64QAM	1	49	23.08	23.21	23.03	
10	64QAM	25	0	22.19	22.11	22.30	23.9
10	64QAM	25	12	22.16	22.16	22.15	
10	64QAM	25	25	22.19	22.00	22.22	
10	64QAM	50	0	22.28	22.25	22.32	
10	256QAM	1	0	20.46	20.48	20.51	21.9
10	256QAM	1	25	20.22	20.09	20.32	
10	256QAM	1	49	20.37	20.25	20.61	
10	256QAM	25	0	20.39	20.56	20.45	21.9
10	256QAM	25	12	20.37	20.37	20.47	
10	256QAM	25	25	20.23	20.38	20.72	
10	256QAM	50	0	20.72	20.52	20.53	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.33	24.31	24.41	25
5	QPSK	1	12	24.00	23.99	24.43	
5	QPSK	1	24	24.13	24.10	24.38	
5	QPSK	12	0	24.10	24.10	24.39	25
5	QPSK	12	7	24.12	24.02	24.24	
5	QPSK	12	13	24.09	24.09	24.26	
5	QPSK	25	0	24.19	23.96	24.23	
5	16QAM	1	0	24.47	24.32	24.34	25
5	16QAM	1	12	24.02	24.10	24.25	
5	16QAM	1	24	24.19	24.27	24.32	
5	16QAM	12	0	23.23	22.95	23.36	24.9
5	16QAM	12	7	23.11	23.14	23.38	
5	16QAM	12	13	23.03	23.21	23.20	
5	16QAM	25	0	23.28	23.11	23.56	
5	64QAM	1	0	23.35	23.11	23.38	24.9
5	64QAM	1	12	22.91	23.15	22.96	
5	64QAM	1	24	23.09	22.95	23.25	
5	64QAM	12	0	22.17	21.96	22.19	23.9
5	64QAM	12	7	21.92	22.35	22.51	
5	64QAM	12	13	22.12	22.16	22.38	
5	64QAM	25	0	22.43	22.04	22.68	
5	256QAM	1	0	20.66	20.22	20.81	21.9
5	256QAM	1	12	20.46	20.30	20.41	
5	256QAM	1	24	20.21	20.28	20.83	
5	256QAM	12	0	20.15	20.35	20.60	21.9
5	256QAM	12	7	20.49	20.24	20.53	
5	256QAM	12	13	20.58	20.33	20.43	
5	256QAM	25	0	20.32	20.50	20.77	



<LTE Band 38_HPUE_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.66	21.64	21.63	22.6
20	QPSK	1	49	21.64	21.63	21.61	
20	QPSK	1	99	21.65	21.65	21.60	
20	QPSK	50	0	21.61	21.60	21.60	22.6
20	QPSK	50	24	21.59	21.60	21.58	
20	QPSK	50	50	21.60	21.59	21.59	
20	QPSK	100	0	21.60	21.57	21.56	22.6
20	16QAM	1	0	21.58	21.56	21.60	
20	16QAM	1	49	21.23	21.24	21.21	
20	16QAM	1	99	21.60	21.59	21.57	22.6
20	16QAM	50	0	21.60	21.59	21.61	
20	16QAM	50	24	21.62	21.60	21.61	
20	16QAM	50	50	21.63	21.62	21.61	22.6
20	16QAM	100	0	21.64	21.62	21.64	
20	64QAM	1	0	21.49	21.48	21.49	
20	64QAM	1	49	21.61	21.52	21.53	22.6
20	64QAM	1	99	21.58	21.54	21.59	
20	64QAM	50	0	21.61	21.61	21.60	
20	64QAM	50	24	21.61	21.62	21.61	22.6
20	64QAM	50	50	21.61	21.63	21.61	
20	64QAM	100	0	21.63	21.63	21.61	
20	256QAM	1	0	21.61	21.61	21.56	21.9
20	256QAM	1	49	21.63	21.61	21.59	
20	256QAM	1	99	21.49	21.62	21.54	
20	256QAM	50	0	21.37	21.31	21.48	21.9
20	256QAM	50	24	21.27	21.42	21.34	
20	256QAM	50	50	21.40	21.29	21.37	
20	256QAM	100	0	21.43	21.32	21.44	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.61	21.50	21.44	22.6
15	QPSK	1	37	21.58	21.46	21.49	
15	QPSK	1	74	21.60	21.53	21.57	
15	QPSK	36	0	21.45	21.41	21.43	22.6
15	QPSK	36	20	21.56	21.48	21.38	
15	QPSK	36	39	21.47	21.53	21.57	
15	QPSK	75	0	21.46	21.41	21.36	22.6
15	16QAM	1	0	21.41	21.46	21.40	
15	16QAM	1	37	21.03	21.04	21.10	
15	16QAM	1	74	21.50	21.52	21.41	22.6
15	16QAM	36	0	21.48	21.58	21.61	
15	16QAM	36	20	21.44	21.53	21.60	
15	16QAM	36	39	21.55	21.61	21.50	22.6
15	16QAM	75	0	21.53	21.54	21.46	
15	64QAM	1	0	21.29	21.39	21.29	
15	64QAM	1	37	21.48	21.44	21.53	22.6
15	64QAM	1	74	21.44	21.43	21.39	
15	64QAM	36	0	21.46	21.44	21.58	
15	64QAM	36	20	21.47	21.59	21.43	22.6
15	64QAM	36	39	21.43	21.46	21.57	
15	64QAM	75	0	21.56	21.44	21.53	
15	256QAM	1	0	21.60	21.51	21.41	21.9
15	256QAM	1	37	21.52	21.51	21.49	
15	256QAM	1	74	21.44	21.53	21.49	
15	256QAM	36	0	21.17	21.17	21.48	21.9
15	256QAM	36	20	21.17	21.28	21.29	
15	256QAM	36	39	21.25	21.23	21.21	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.25	21.18	21.37	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.56	21.56	21.58	22.6
10	QPSK	1	25	21.53	21.54	21.50	
10	QPSK	1	49	21.53	21.59	21.40	
10	QPSK	25	0	21.59	21.40	21.50	22.6
10	QPSK	25	12	21.40	21.47	21.54	
10	QPSK	25	25	21.55	21.46	21.54	
10	QPSK	50	0	21.56	21.46	21.51	
10	16QAM	1	0	21.53	21.47	21.59	22.6
10	16QAM	1	25	21.08	21.09	21.09	
10	16QAM	1	49	21.59	21.50	21.51	
10	16QAM	25	0	21.59	21.40	21.55	22.6
10	16QAM	25	12	21.61	21.45	21.49	
10	16QAM	25	25	21.45	21.62	21.43	
10	16QAM	50	0	21.48	21.49	21.58	
10	64QAM	1	0	21.48	21.32	21.41	22.6
10	64QAM	1	25	21.58	21.38	21.50	
10	64QAM	1	49	21.46	21.54	21.47	
10	64QAM	25	0	21.61	21.51	21.40	22.6
10	64QAM	25	12	21.58	21.42	21.50	
10	64QAM	25	25	21.43	21.51	21.41	
10	64QAM	50	0	21.63	21.60	21.58	
10	256QAM	1	0	21.55	21.50	21.39	21.9
10	256QAM	1	25	21.56	21.46	21.57	
10	256QAM	1	49	21.44	21.44	21.36	
10	256QAM	25	0	21.21	21.17	21.29	21.9
10	256QAM	25	12	21.23	21.37	21.16	
10	256QAM	25	25	21.24	21.17	21.37	
10	256QAM	50	0	21.24	21.28	21.32	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.61	21.55	21.49	22.6
5	QPSK	1	12	21.48	21.58	21.58	
5	QPSK	1	24	21.53	21.53	21.49	
5	QPSK	12	0	21.58	21.60	21.50	22.6
5	QPSK	12	7	21.46	21.59	21.56	
5	QPSK	12	13	21.53	21.58	21.56	
5	QPSK	25	0	21.53	21.41	21.53	
5	16QAM	1	0	21.58	21.42	21.43	22.6
5	16QAM	1	12	21.07	21.20	21.20	
5	16QAM	1	24	21.41	21.57	21.57	
5	16QAM	12	0	21.55	21.40	21.56	22.6
5	16QAM	12	7	21.42	21.60	21.59	
5	16QAM	12	13	21.43	21.49	21.52	
5	16QAM	25	0	21.54	21.55	21.52	
5	64QAM	1	0	21.47	21.43	21.29	22.6
5	64QAM	1	12	21.49	21.38	21.46	
5	64QAM	1	24	21.43	21.45	21.53	
5	64QAM	12	0	21.58	21.55	21.60	22.6
5	64QAM	12	7	21.44	21.55	21.52	
5	64QAM	12	13	21.54	21.44	21.43	
5	64QAM	25	0	21.58	21.47	21.46	
5	256QAM	1	0	21.59	21.41	21.44	21.9
5	256QAM	1	12	21.46	21.46	21.61	
5	256QAM	1	24	21.44	21.49	21.44	
5	256QAM	12	0	21.31	21.14	21.41	21.9
5	256QAM	12	7	21.09	21.26	21.25	
5	256QAM	12	13	21.35	21.15	21.37	
5	256QAM	25	0	21.33	21.28	21.27	



<LTE Band 38_HPUE_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.82	23.81	23.76	25.1
20	QPSK	1	49	23.76	23.80	23.74	
20	QPSK	1	99	23.69	23.66	23.60	
20	QPSK	50	0	23.74	23.65	23.65	25.1
20	QPSK	50	24	23.58	23.54	23.56	
20	QPSK	50	50	23.58	23.66	23.57	
20	QPSK	100	0	23.57	23.73	23.55	25.1
20	16QAM	1	0	23.78	23.78	23.78	
20	16QAM	1	49	23.74	23.73	23.74	
20	16QAM	1	99	23.75	23.77	23.75	24.9
20	16QAM	50	0	23.70	23.59	23.54	
20	16QAM	50	24	23.71	23.70	23.56	
20	16QAM	50	50	23.75	23.71	23.55	24.9
20	16QAM	100	0	23.70	23.74	23.67	
20	64QAM	1	0	23.72	23.60	23.65	
20	64QAM	1	49	23.65	23.60	23.73	23.9
20	64QAM	1	99	23.65	23.70	23.60	
20	64QAM	50	0	23.32	23.31	23.10	
20	64QAM	50	24	23.33	23.25	23.18	21.9
20	64QAM	50	50	23.35	23.14	23.18	
20	64QAM	100	0	23.29	23.25	23.13	
20	256QAM	1	0	21.62	21.64	21.55	21.9
20	256QAM	1	49	21.37	21.62	21.61	
20	256QAM	1	99	21.43	21.42	21.45	
20	256QAM	50	0	21.43	21.36	21.46	21.9
20	256QAM	50	24	21.47	21.42	21.39	
20	256QAM	50	50	21.57	21.40	21.44	
20	256QAM	100	0	21.42	21.52	21.54	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.76	23.79	23.56	25.1
15	QPSK	1	37	23.59	23.63	23.61	
15	QPSK	1	74	23.67	23.60	23.44	
15	QPSK	36	0	23.63	23.46	23.54	25.1
15	QPSK	36	20	23.65	23.52	23.50	
15	QPSK	36	39	23.55	23.72	23.59	
15	QPSK	75	0	23.64	23.53	23.40	25.1
15	16QAM	1	0	23.80	23.73	23.71	
15	16QAM	1	37	23.74	23.72	23.73	
15	16QAM	1	74	23.81	23.68	23.73	24.9
15	16QAM	36	0	23.47	23.63	23.57	
15	16QAM	36	20	23.57	23.70	23.38	
15	16QAM	36	39	23.59	23.58	23.54	24.9
15	16QAM	75	0	23.66	23.66	23.34	
15	64QAM	1	0	23.75	23.58	23.60	
15	64QAM	1	37	23.65	23.70	23.50	23.9
15	64QAM	1	74	23.46	23.57	23.41	
15	64QAM	36	0	23.15	23.06	23.14	
15	64QAM	36	20	23.09	22.92	23.09	21.9
15	64QAM	36	39	23.17	23.17	23.21	
15	64QAM	75	0	23.13	23.23	23.00	
15	256QAM	1	0	21.28	21.24	21.53	21.9
15	256QAM	1	37	21.39	21.33	21.50	
15	256QAM	1	74	21.45	21.49	21.36	
15	256QAM	36	0	21.30	21.47	21.25	21.9
15	256QAM	36	20	21.38	21.22	21.31	
15	256QAM	36	39	21.38	21.39	21.26	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.33	21.38	21.51	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.75	23.76	23.61	25.1
10	QPSK	1	25	23.67	23.66	23.66	
10	QPSK	1	49	23.58	23.62	23.55	
10	QPSK	25	0	23.66	23.50	23.55	25.1
10	QPSK	25	12	23.57	23.56	23.35	
10	QPSK	25	25	23.59	23.54	23.59	
10	QPSK	50	0	23.50	23.41	23.53	
10	16QAM	1	0	23.76	23.77	23.75	25.1
10	16QAM	1	25	23.73	23.75	23.76	
10	16QAM	1	49	23.75	23.78	23.76	
10	16QAM	25	0	23.53	23.39	23.44	24.9
10	16QAM	25	12	23.46	23.54	23.39	
10	16QAM	25	25	23.64	23.46	23.25	
10	16QAM	50	0	23.64	23.45	23.65	
10	64QAM	1	0	23.70	23.68	23.65	
10	64QAM	1	25	23.73	23.56	23.67	24.9
10	64QAM	1	49	23.57	23.63	23.42	
10	64QAM	25	0	23.25	23.16	23.01	
10	64QAM	25	12	23.10	23.24	23.07	23.9
10	64QAM	25	25	23.18	23.04	23.19	
10	64QAM	50	0	23.15	23.14	23.05	
10	256QAM	1	0	21.50	21.57	21.38	21.9
10	256QAM	1	25	21.40	21.48	21.46	
10	256QAM	1	49	21.41	21.38	21.26	
10	256QAM	25	0	21.45	21.44	21.23	21.9
10	256QAM	25	12	21.49	21.36	21.26	
10	256QAM	25	25	21.42	21.34	21.27	
10	256QAM	50	0	21.52	21.31	21.32	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.75	23.71	23.60	25.1
5	QPSK	1	12	23.71	23.72	23.58	
5	QPSK	1	24	23.49	23.54	23.55	
5	QPSK	12	0	23.69	23.46	23.52	25.1
5	QPSK	12	7	23.57	23.36	23.56	
5	QPSK	12	13	23.49	23.53	23.58	
5	QPSK	25	0	23.71	23.43	23.43	
5	16QAM	1	0	23.75	23.77	23.78	25.1
5	16QAM	1	12	23.74	23.78	23.77	
5	16QAM	1	24	23.72	23.72	23.66	
5	16QAM	12	0	23.66	23.47	23.35	24.9
5	16QAM	12	7	23.55	23.58	23.45	
5	16QAM	12	13	23.66	23.55	23.33	
5	16QAM	25	0	23.70	23.65	23.52	
5	64QAM	1	0	23.48	23.41	23.61	24.9
5	64QAM	1	12	23.59	23.54	23.67	
5	64QAM	1	24	23.66	23.48	23.52	
5	64QAM	12	0	23.17	23.13	22.92	23.9
5	64QAM	12	7	22.98	23.26	23.12	
5	64QAM	12	13	23.15	23.05	23.18	
5	64QAM	25	0	23.17	23.12	22.92	
5	256QAM	1	0	21.29	21.34	21.26	21.9
5	256QAM	1	12	21.52	21.43	21.60	
5	256QAM	1	24	21.36	21.29	21.38	
5	256QAM	12	0	21.53	21.39	21.15	21.9
5	256QAM	12	7	21.39	21.27	21.36	
5	256QAM	12	13	21.52	21.24	21.33	
5	256QAM	25	0	21.43	21.39	21.23	



<LTE Band 38_HPUE_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.79	23.99	23.88	25.3
20	QPSK	1	49	23.76	23.82	23.84	
20	QPSK	1	99	23.73	23.98	23.85	
20	QPSK	50	0	23.75	23.86	23.84	25.3
20	QPSK	50	24	23.72	23.80	23.75	
20	QPSK	50	50	23.74	23.76	23.72	
20	QPSK	100	0	23.79	23.79	23.66	
20	16QAM	1	0	23.78	23.58	23.52	25.3
20	16QAM	1	49	23.42	23.31	23.45	
20	16QAM	1	99	23.72	23.65	23.53	
20	16QAM	50	0	23.85	23.84	23.88	24.9
20	16QAM	50	24	23.97	23.95	23.97	
20	16QAM	50	50	23.86	23.85	23.98	
20	16QAM	100	0	23.94	23.91	23.87	
20	64QAM	1	0	23.81	23.77	23.73	24.9
20	64QAM	1	49	23.84	23.97	23.75	
20	64QAM	1	99	23.80	23.69	23.84	
20	64QAM	50	0	22.81	22.95	22.82	23.9
20	64QAM	50	24	22.82	22.91	22.92	
20	64QAM	50	50	22.98	22.83	22.81	
20	64QAM	100	0	22.94	22.89	22.92	
20	256QAM	1	0	21.28	20.96	20.86	21.9
20	256QAM	1	49	21.04	20.96	21.15	
20	256QAM	1	99	20.98	20.93	20.85	
20	256QAM	50	0	21.01	21.09	21.14	21.9
20	256QAM	50	24	21.01	21.00	21.13	
20	256QAM	50	50	20.87	21.11	21.12	
20	256QAM	100	0	20.98	21.00	20.94	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.66	23.96	23.61	25.3
15	QPSK	1	37	23.84	23.72	23.74	
15	QPSK	1	74	23.81	23.96	23.75	
15	QPSK	36	0	23.70	23.79	23.79	25.3
15	QPSK	36	20	23.64	23.72	23.63	
15	QPSK	36	39	23.66	23.72	23.61	
15	QPSK	75	0	23.61	23.59	23.46	
15	16QAM	1	0	23.53	23.37	23.65	25.3
15	16QAM	1	37	23.45	23.34	23.47	
15	16QAM	1	74	23.62	23.52	23.41	
15	16QAM	36	0	23.84	23.80	23.72	24.9
15	16QAM	36	20	23.74	23.91	23.75	
15	16QAM	36	39	23.86	23.73	23.68	
15	16QAM	75	0	23.67	23.91	23.82	
15	64QAM	1	0	23.64	23.85	23.57	24.9
15	64QAM	1	37	23.84	23.88	23.63	
15	64QAM	1	74	23.74	23.59	23.69	
15	64QAM	36	0	22.83	22.84	22.74	23.9
15	64QAM	36	20	22.81	22.63	22.69	
15	64QAM	36	39	22.89	22.79	22.76	
15	64QAM	75	0	22.75	22.67	22.84	
15	256QAM	1	0	21.25	21.01	20.79	21.9
15	256QAM	1	37	20.88	20.80	21.02	
15	256QAM	1	74	20.79	20.80	20.83	
15	256QAM	36	0	20.98	21.01	21.21	21.9
15	256QAM	36	20	20.95	20.79	20.90	
15	256QAM	36	39	21.02	21.09	20.95	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.93	21.09	20.87	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.63	23.84	23.77	25.3
10	QPSK	1	25	23.76	23.74	23.70	
10	QPSK	1	49	23.67	23.79	23.68	
10	QPSK	25	0	23.56	23.86	23.68	25.3
10	QPSK	25	12	23.68	23.72	23.58	
10	QPSK	25	25	23.64	23.70	23.56	
10	QPSK	50	0	23.63	23.64	23.59	25.3
10	16QAM	1	0	23.70	23.61	23.56	
10	16QAM	1	25	23.36	23.38	23.48	
10	16QAM	1	49	23.70	23.51	23.43	24.9
10	16QAM	25	0	23.89	23.80	23.73	
10	16QAM	25	12	23.95	23.82	23.76	
10	16QAM	25	25	23.88	23.81	23.71	24.9
10	16QAM	50	0	23.74	23.72	23.73	
10	64QAM	1	0	23.81	23.66	23.45	
10	64QAM	1	25	23.78	23.83	23.66	24.9
10	64QAM	1	49	23.67	23.63	23.62	
10	64QAM	25	0	22.71	22.71	22.74	
10	64QAM	25	12	22.77	22.80	22.60	23.9
10	64QAM	25	25	22.97	22.59	22.76	
10	64QAM	50	0	22.68	22.83	22.82	
10	256QAM	1	0	21.17	20.83	20.92	21.9
10	256QAM	1	25	21.10	20.72	21.14	
10	256QAM	1	49	20.93	20.69	20.87	
10	256QAM	25	0	20.84	20.98	21.02	21.9
10	256QAM	25	12	21.10	21.04	20.95	
10	256QAM	25	25	20.77	21.01	20.98	
10	256QAM	50	0	21.02	20.82	20.73	21.9
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.64	23.90	23.67	25.3
5	QPSK	1	12	23.85	23.76	23.73	
5	QPSK	1	24	23.71	23.84	23.77	
5	QPSK	12	0	23.60	23.82	23.64	25.3
5	QPSK	12	7	23.62	23.65	23.71	
5	QPSK	12	13	23.65	23.57	23.53	
5	QPSK	25	0	23.74	23.60	23.56	25.3
5	16QAM	1	0	23.82	23.63	23.59	
5	16QAM	1	12	23.39	23.39	23.40	
5	16QAM	1	24	23.62	23.60	23.55	24.9
5	16QAM	12	0	23.74	23.77	23.80	
5	16QAM	12	7	23.82	23.82	23.82	
5	16QAM	12	13	23.83	23.87	23.83	24.9
5	16QAM	25	0	23.77	23.90	23.81	
5	64QAM	1	0	23.86	23.70	23.51	
5	64QAM	1	12	23.71	23.86	23.50	24.9
5	64QAM	1	24	23.66	23.63	23.77	
5	64QAM	12	0	22.65	22.75	22.62	
5	64QAM	12	7	22.92	22.78	22.56	23.9
5	64QAM	12	13	22.93	22.80	22.82	
5	64QAM	25	0	22.82	22.76	22.77	
5	256QAM	1	0	21.23	20.92	20.70	21.9
5	256QAM	1	12	20.88	20.91	21.17	
5	256QAM	1	24	21.07	20.93	20.81	
5	256QAM	12	0	20.80	20.97	21.04	21.9
5	256QAM	12	7	20.96	21.03	21.02	
5	256QAM	12	13	21.03	21.00	21.01	
5	256QAM	25	0	21.00	21.00	20.84	



<LTE Band 38_HPUE_Ant 5_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.35	24.32	24.53	25.8
20	QPSK	1	49	24.21	24.21	24.44	
20	QPSK	1	99	24.25	24.23	24.43	
20	QPSK	50	0	24.31	24.24	24.52	25.8
20	QPSK	50	24	24.19	24.15	24.32	
20	QPSK	50	50	24.25	24.17	24.42	
20	QPSK	100	0	24.28	24.19	24.44	25.8
20	16QAM	1	0	24.44	24.31	24.45	
20	16QAM	1	49	24.19	24.20	24.40	
20	16QAM	1	99	24.38	24.31	24.44	24.9
20	16QAM	50	0	23.10	23.30	23.73	
20	16QAM	50	24	23.28	23.12	23.25	
20	16QAM	50	50	23.27	23.38	23.32	24.9
20	16QAM	100	0	23.37	23.19	23.52	
20	64QAM	1	0	23.22	23.45	23.56	
20	64QAM	1	49	23.06	23.24	23.44	24.9
20	64QAM	1	99	23.25	23.21	23.28	
20	64QAM	50	0	22.49	22.32	22.69	
20	64QAM	50	24	22.29	22.53	22.51	23.9
20	64QAM	50	50	22.26	22.13	22.51	
20	64QAM	100	0	22.39	22.12	22.58	
20	256QAM	1	0	20.57	20.47	20.88	21.9
20	256QAM	1	49	20.32	20.36	20.74	
20	256QAM	1	99	20.55	20.63	20.81	
20	256QAM	50	0	20.57	20.44	20.65	21.9
20	256QAM	50	24	20.49	20.60	20.84	
20	256QAM	50	50	20.63	20.50	20.55	
20	256QAM	100	0	20.54	20.43	20.86	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.34	24.12	24.44	25.8
15	QPSK	1	37	23.98	24.01	24.46	
15	QPSK	1	74	24.22	24.04	24.49	
15	QPSK	36	0	24.25	24.04	24.44	25.8
15	QPSK	36	20	24.14	24.09	24.23	
15	QPSK	36	39	24.24	24.05	24.37	
15	QPSK	75	0	24.16	23.96	24.18	25.8
15	16QAM	1	0	24.34	24.33	24.32	
15	16QAM	1	37	24.07	24.02	24.35	
15	16QAM	1	74	24.18	24.17	24.35	24.9
15	16QAM	36	0	23.43	23.37	23.49	
15	16QAM	36	20	23.19	23.14	23.25	
15	16QAM	36	39	23.43	23.37	23.28	24.9
15	16QAM	75	0	23.37	23.44	23.34	
15	64QAM	1	0	23.43	22.99	23.58	
15	64QAM	1	37	23.06	23.06	23.29	24.9
15	64QAM	1	74	23.12	23.01	23.28	
15	64QAM	36	0	22.14	22.07	22.31	
15	64QAM	36	20	22.19	22.41	22.21	23.9
15	64QAM	36	39	22.33	22.25	22.02	
15	64QAM	75	0	22.04	22.27	22.59	
15	256QAM	1	0	20.70	20.54	20.49	21.9
15	256QAM	1	37	20.16	19.98	20.55	
15	256QAM	1	74	20.54	20.51	20.54	
15	256QAM	36	0	20.69	20.19	20.57	21.9
15	256QAM	36	20	20.30	20.66	20.58	
15	256QAM	36	39	20.23	20.40	20.38	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	20.51	20.39	20.74	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.32	24.26	24.39	25.8
10	QPSK	1	25	24.11	24.16	24.45	
10	QPSK	1	49	24.23	24.04	24.37	
10	QPSK	25	0	24.13	24.22	24.32	25.8
10	QPSK	25	12	24.09	24.12	24.14	
10	QPSK	25	25	24.06	24.16	24.25	
10	QPSK	50	0	24.14	24.16	24.26	
10	16QAM	1	0	24.45	24.24	24.39	25.8
10	16QAM	1	25	24.10	24.06	24.42	
10	16QAM	1	49	24.29	24.24	24.36	
10	16QAM	25	0	22.92	23.25	23.39	24.9
10	16QAM	25	12	23.01	23.05	23.10	
10	16QAM	25	25	23.06	23.14	23.41	
10	16QAM	50	0	23.34	23.34	23.65	
10	64QAM	1	0	22.98	23.35	23.46	24.9
10	64QAM	1	25	22.94	23.04	23.12	
10	64QAM	1	49	23.08	23.21	23.03	
10	64QAM	25	0	22.19	22.11	22.30	23.9
10	64QAM	25	12	22.16	22.16	22.15	
10	64QAM	25	25	22.19	22.00	22.22	
10	64QAM	50	0	22.28	22.25	22.32	
10	256QAM	1	0	20.46	20.48	20.51	21.9
10	256QAM	1	25	20.22	20.09	20.32	
10	256QAM	1	49	20.37	20.25	20.61	
10	256QAM	25	0	20.39	20.56	20.45	21.9
10	256QAM	25	12	20.37	20.37	20.47	
10	256QAM	25	25	20.23	20.38	20.72	
10	256QAM	50	0	20.72	20.52	20.53	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.33	24.31	24.41	25.8
5	QPSK	1	12	24.00	23.99	24.43	
5	QPSK	1	24	24.13	24.10	24.38	
5	QPSK	12	0	24.10	24.10	24.39	25.8
5	QPSK	12	7	24.12	24.02	24.24	
5	QPSK	12	13	24.09	24.09	24.26	
5	QPSK	25	0	24.19	23.96	24.23	
5	16QAM	1	0	24.47	24.32	24.34	25.8
5	16QAM	1	12	24.02	24.10	24.25	
5	16QAM	1	24	24.19	24.27	24.32	
5	16QAM	12	0	23.23	22.95	23.36	24.9
5	16QAM	12	7	23.11	23.14	23.38	
5	16QAM	12	13	23.03	23.21	23.20	
5	16QAM	25	0	23.28	23.11	23.56	
5	64QAM	1	0	23.35	23.11	23.38	24.9
5	64QAM	1	12	22.91	23.15	22.96	
5	64QAM	1	24	23.09	22.95	23.25	
5	64QAM	12	0	22.17	21.96	22.19	23.9
5	64QAM	12	7	21.92	22.35	22.51	
5	64QAM	12	13	22.12	22.16	22.38	
5	64QAM	25	0	22.43	22.04	22.68	
5	256QAM	1	0	20.66	20.22	20.81	21.9
5	256QAM	1	12	20.46	20.30	20.41	
5	256QAM	1	24	20.21	20.28	20.83	
5	256QAM	12	0	20.15	20.35	20.60	21.9
5	256QAM	12	7	20.49	20.24	20.53	
5	256QAM	12	13	20.58	20.33	20.43	
5	256QAM	25	0	20.32	20.50	20.77	



<LTE Band 38_HPUE_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.66	21.64	21.63	21.8
20	QPSK	1	49	21.64	21.63	21.61	
20	QPSK	1	99	21.65	21.65	21.60	
20	QPSK	50	0	21.61	21.60	21.60	21.8
20	QPSK	50	24	21.59	21.60	21.58	
20	QPSK	50	50	21.60	21.59	21.59	
20	QPSK	100	0	21.60	21.57	21.56	21.8
20	16QAM	1	0	21.58	21.56	21.60	
20	16QAM	1	49	21.23	21.24	21.21	
20	16QAM	1	99	21.60	21.59	21.57	21.8
20	16QAM	50	0	21.60	21.59	21.61	
20	16QAM	50	24	21.62	21.60	21.61	
20	16QAM	50	50	21.63	21.62	21.61	21.8
20	16QAM	100	0	21.64	21.62	21.64	
20	64QAM	1	0	21.49	21.48	21.49	
20	64QAM	1	49	21.61	21.52	21.53	21.8
20	64QAM	1	99	21.58	21.54	21.59	
20	64QAM	50	0	21.61	21.61	21.60	
20	64QAM	50	24	21.61	21.62	21.61	21.8
20	64QAM	50	50	21.61	21.63	21.61	
20	64QAM	100	0	21.63	21.63	21.61	
20	256QAM	1	0	21.61	21.61	21.56	21.8
20	256QAM	1	49	21.63	21.61	21.59	
20	256QAM	1	99	21.49	21.62	21.54	
20	256QAM	50	0	21.37	21.31	21.48	21.8
20	256QAM	50	24	21.27	21.42	21.34	
20	256QAM	50	50	21.40	21.29	21.37	
20	256QAM	100	0	21.43	21.32	21.44	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.61	21.50	21.44	21.8
15	QPSK	1	37	21.58	21.46	21.49	
15	QPSK	1	74	21.60	21.53	21.57	
15	QPSK	36	0	21.45	21.41	21.43	21.8
15	QPSK	36	20	21.56	21.48	21.38	
15	QPSK	36	39	21.47	21.53	21.57	
15	QPSK	75	0	21.46	21.41	21.36	21.8
15	16QAM	1	0	21.41	21.46	21.40	
15	16QAM	1	37	21.03	21.04	21.10	
15	16QAM	1	74	21.50	21.52	21.41	21.8
15	16QAM	36	0	21.48	21.58	21.61	
15	16QAM	36	20	21.44	21.53	21.60	
15	16QAM	36	39	21.55	21.61	21.50	21.8
15	16QAM	75	0	21.53	21.54	21.46	
15	64QAM	1	0	21.29	21.39	21.29	
15	64QAM	1	37	21.48	21.44	21.53	21.8
15	64QAM	1	74	21.44	21.43	21.39	
15	64QAM	36	0	21.46	21.44	21.58	
15	64QAM	36	20	21.47	21.59	21.43	21.8
15	64QAM	36	39	21.43	21.46	21.57	
15	64QAM	75	0	21.56	21.44	21.53	
15	256QAM	1	0	21.60	21.51	21.41	21.8
15	256QAM	1	37	21.52	21.51	21.49	
15	256QAM	1	74	21.44	21.53	21.49	
15	256QAM	36	0	21.17	21.17	21.48	21.8
15	256QAM	36	20	21.17	21.28	21.29	
15	256QAM	36	39	21.25	21.23	21.21	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.25	21.18	21.37	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	21.56	21.56	21.58	21.8
10	QPSK	1	25	21.53	21.54	21.50	
10	QPSK	1	49	21.53	21.59	21.40	
10	QPSK	25	0	21.59	21.40	21.50	21.8
10	QPSK	25	12	21.40	21.47	21.54	
10	QPSK	25	25	21.55	21.46	21.54	
10	QPSK	50	0	21.56	21.46	21.51	
10	16QAM	1	0	21.53	21.47	21.59	21.8
10	16QAM	1	25	21.08	21.09	21.09	
10	16QAM	1	49	21.59	21.50	21.51	
10	16QAM	25	0	21.59	21.40	21.55	21.8
10	16QAM	25	12	21.61	21.45	21.49	
10	16QAM	25	25	21.45	21.62	21.43	
10	16QAM	50	0	21.48	21.49	21.58	
10	64QAM	1	0	21.48	21.32	21.41	21.8
10	64QAM	1	25	21.58	21.38	21.50	
10	64QAM	1	49	21.46	21.54	21.47	
10	64QAM	25	0	21.61	21.51	21.40	21.8
10	64QAM	25	12	21.58	21.42	21.50	
10	64QAM	25	25	21.43	21.51	21.41	
10	64QAM	50	0	21.63	21.60	21.58	
10	256QAM	1	0	21.55	21.50	21.39	21.8
10	256QAM	1	25	21.56	21.46	21.57	
10	256QAM	1	49	21.44	21.44	21.36	
10	256QAM	25	0	21.21	21.17	21.29	21.8
10	256QAM	25	12	21.23	21.37	21.16	
10	256QAM	25	25	21.24	21.17	21.37	
10	256QAM	50	0	21.24	21.28	21.32	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.61	21.55	21.49	21.8
5	QPSK	1	12	21.48	21.58	21.58	
5	QPSK	1	24	21.53	21.53	21.49	
5	QPSK	12	0	21.58	21.60	21.50	21.8
5	QPSK	12	7	21.46	21.59	21.56	
5	QPSK	12	13	21.53	21.58	21.56	
5	QPSK	25	0	21.53	21.41	21.53	
5	16QAM	1	0	21.58	21.42	21.43	21.8
5	16QAM	1	12	21.07	21.20	21.20	
5	16QAM	1	24	21.41	21.57	21.57	
5	16QAM	12	0	21.55	21.40	21.56	21.8
5	16QAM	12	7	21.42	21.60	21.59	
5	16QAM	12	13	21.43	21.49	21.52	
5	16QAM	25	0	21.54	21.55	21.52	
5	64QAM	1	0	21.47	21.43	21.29	21.8
5	64QAM	1	12	21.49	21.38	21.46	
5	64QAM	1	24	21.43	21.45	21.53	
5	64QAM	12	0	21.58	21.55	21.60	21.8
5	64QAM	12	7	21.44	21.55	21.52	
5	64QAM	12	13	21.54	21.44	21.43	
5	64QAM	25	0	21.58	21.47	21.46	
5	256QAM	1	0	21.59	21.41	21.44	21.8
5	256QAM	1	12	21.46	21.46	21.61	
5	256QAM	1	24	21.44	21.49	21.44	
5	256QAM	12	0	21.31	21.14	21.41	21.8
5	256QAM	12	7	21.09	21.26	21.25	
5	256QAM	12	13	21.35	21.15	21.37	
5	256QAM	25	0	21.33	21.28	21.27	



<LTE Band 38_HPUE_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.82	23.81	23.76	24.3
20	QPSK	1	49	23.76	23.80	23.74	
20	QPSK	1	99	23.69	23.66	23.60	
20	QPSK	50	0	23.74	23.65	23.65	24.3
20	QPSK	50	24	23.58	23.54	23.56	
20	QPSK	50	50	23.58	23.66	23.57	
20	QPSK	100	0	23.57	23.73	23.55	24.3
20	16QAM	1	0	23.78	23.78	23.78	
20	16QAM	1	49	23.74	23.73	23.74	
20	16QAM	1	99	23.75	23.77	23.75	24.3
20	16QAM	50	0	23.70	23.59	23.54	
20	16QAM	50	24	23.71	23.70	23.56	
20	16QAM	50	50	23.75	23.71	23.55	24.3
20	16QAM	100	0	23.70	23.74	23.67	
20	64QAM	1	0	23.72	23.60	23.65	
20	64QAM	1	49	23.65	23.60	23.73	24.3
20	64QAM	1	99	23.65	23.70	23.60	
20	64QAM	50	0	23.32	23.31	23.10	
20	64QAM	50	24	23.33	23.25	23.18	23.9
20	64QAM	50	50	23.35	23.14	23.18	
20	64QAM	100	0	23.29	23.25	23.13	
20	256QAM	1	0	21.62	21.64	21.55	21.9
20	256QAM	1	49	21.37	21.62	21.61	
20	256QAM	1	99	21.43	21.42	21.45	
20	256QAM	50	0	21.43	21.36	21.46	21.9
20	256QAM	50	24	21.47	21.42	21.39	
20	256QAM	50	50	21.57	21.40	21.44	
20	256QAM	100	0	21.42	21.52	21.54	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.76	23.79	23.56	24.3
15	QPSK	1	37	23.59	23.63	23.61	
15	QPSK	1	74	23.67	23.60	23.44	
15	QPSK	36	0	23.63	23.46	23.54	24.3
15	QPSK	36	20	23.65	23.52	23.50	
15	QPSK	36	39	23.55	23.72	23.59	
15	QPSK	75	0	23.64	23.53	23.40	24.3
15	16QAM	1	0	23.80	23.73	23.71	
15	16QAM	1	37	23.74	23.72	23.73	
15	16QAM	1	74	23.81	23.68	23.73	24.3
15	16QAM	36	0	23.47	23.63	23.57	
15	16QAM	36	20	23.57	23.70	23.38	
15	16QAM	36	39	23.59	23.58	23.54	24.3
15	16QAM	75	0	23.66	23.66	23.34	
15	64QAM	1	0	23.75	23.58	23.60	
15	64QAM	1	37	23.65	23.70	23.50	24.3
15	64QAM	1	74	23.46	23.57	23.41	
15	64QAM	36	0	23.15	23.06	23.14	
15	64QAM	36	20	23.09	22.92	23.09	23.9
15	64QAM	36	39	23.17	23.17	23.21	
15	64QAM	75	0	23.13	23.23	23.00	
15	256QAM	1	0	21.28	21.24	21.53	21.9
15	256QAM	1	37	21.39	21.33	21.50	
15	256QAM	1	74	21.45	21.49	21.36	
15	256QAM	36	0	21.30	21.47	21.25	21.9
15	256QAM	36	20	21.38	21.22	21.31	
15	256QAM	36	39	21.38	21.39	21.26	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	21.33	21.38	21.51	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.75	23.76	23.61	24.3
10	QPSK	1	25	23.67	23.66	23.66	
10	QPSK	1	49	23.58	23.62	23.55	
10	QPSK	25	0	23.66	23.50	23.55	24.3
10	QPSK	25	12	23.57	23.56	23.35	
10	QPSK	25	25	23.59	23.54	23.59	
10	QPSK	50	0	23.50	23.41	23.53	
10	16QAM	1	0	23.76	23.77	23.75	24.3
10	16QAM	1	25	23.73	23.75	23.76	
10	16QAM	1	49	23.75	23.78	23.76	
10	16QAM	25	0	23.53	23.39	23.44	24.3
10	16QAM	25	12	23.46	23.54	23.39	
10	16QAM	25	25	23.64	23.46	23.25	
10	16QAM	50	0	23.64	23.45	23.65	
10	64QAM	1	0	23.70	23.68	23.65	24.3
10	64QAM	1	25	23.73	23.56	23.67	
10	64QAM	1	49	23.57	23.63	23.42	
10	64QAM	25	0	23.25	23.16	23.01	23.9
10	64QAM	25	12	23.10	23.24	23.07	
10	64QAM	25	25	23.18	23.04	23.19	
10	64QAM	50	0	23.15	23.14	23.05	
10	256QAM	1	0	21.50	21.57	21.38	21.9
10	256QAM	1	25	21.40	21.48	21.46	
10	256QAM	1	49	21.41	21.38	21.26	
10	256QAM	25	0	21.45	21.44	21.23	21.9
10	256QAM	25	12	21.49	21.36	21.26	
10	256QAM	25	25	21.42	21.34	21.27	
10	256QAM	50	0	21.52	21.31	21.32	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.75	23.71	23.60	24.3
5	QPSK	1	12	23.71	23.72	23.58	
5	QPSK	1	24	23.49	23.54	23.55	
5	QPSK	12	0	23.69	23.46	23.52	24.3
5	QPSK	12	7	23.57	23.36	23.56	
5	QPSK	12	13	23.49	23.53	23.58	
5	QPSK	25	0	23.71	23.43	23.43	
5	16QAM	1	0	23.75	23.77	23.78	24.3
5	16QAM	1	12	23.74	23.78	23.77	
5	16QAM	1	24	23.72	23.72	23.66	
5	16QAM	12	0	23.66	23.47	23.35	24.3
5	16QAM	12	7	23.55	23.58	23.45	
5	16QAM	12	13	23.66	23.55	23.33	
5	16QAM	25	0	23.70	23.65	23.52	
5	64QAM	1	0	23.48	23.41	23.61	24.3
5	64QAM	1	12	23.59	23.54	23.67	
5	64QAM	1	24	23.66	23.48	23.52	
5	64QAM	12	0	23.17	23.13	22.92	23.9
5	64QAM	12	7	22.98	23.26	23.12	
5	64QAM	12	13	23.15	23.05	23.18	
5	64QAM	25	0	23.17	23.12	22.92	
5	256QAM	1	0	21.29	21.34	21.26	21.9
5	256QAM	1	12	21.52	21.43	21.60	
5	256QAM	1	24	21.36	21.29	21.38	
5	256QAM	12	0	21.53	21.39	21.15	21.9
5	256QAM	12	7	21.39	21.27	21.36	
5	256QAM	12	13	21.52	21.24	21.33	
5	256QAM	25	0	21.43	21.39	21.23	



<LTE Band 38_HPUE_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.79	23.99	23.88	
20	QPSK	1	49	23.76	23.82	23.84	
20	QPSK	1	99	23.73	23.98	23.85	
20	QPSK	50	0	23.75	23.86	23.84	24.5
20	QPSK	50	24	23.72	23.80	23.75	
20	QPSK	50	50	23.74	23.76	23.72	
20	QPSK	100	0	23.79	23.79	23.66	24.5
20	16QAM	1	0	23.78	23.58	23.52	
20	16QAM	1	49	23.42	23.31	23.45	
20	16QAM	1	99	23.72	23.65	23.53	24.5
20	16QAM	50	0	23.85	23.84	23.88	
20	16QAM	50	24	23.97	23.95	23.97	
20	16QAM	50	50	23.86	23.85	23.98	24.5
20	16QAM	100	0	23.94	23.91	23.87	
20	64QAM	1	0	23.81	23.77	23.73	
20	64QAM	1	49	23.84	23.97	23.75	24.5
20	64QAM	1	99	23.80	23.69	23.84	
20	64QAM	50	0	22.81	22.95	22.82	
20	64QAM	50	24	22.82	22.91	22.92	23.9
20	64QAM	50	50	22.98	22.83	22.81	
20	64QAM	100	0	22.94	22.89	22.92	
20	256QAM	1	0	21.28	20.96	20.86	21.9
20	256QAM	1	49	21.04	20.96	21.15	
20	256QAM	1	99	20.98	20.93	20.85	
20	256QAM	50	0	21.01	21.09	21.14	21.9
20	256QAM	50	24	21.01	21.00	21.13	
20	256QAM	50	50	20.87	21.11	21.12	
20	256QAM	100	0	20.98	21.00	20.94	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.66	23.96	23.61	
15	QPSK	1	37	23.84	23.72	23.74	
15	QPSK	1	74	23.81	23.96	23.75	
15	QPSK	36	0	23.70	23.79	23.79	24.5
15	QPSK	36	20	23.64	23.72	23.63	
15	QPSK	36	39	23.66	23.72	23.61	
15	QPSK	75	0	23.61	23.59	23.46	24.5
15	16QAM	1	0	23.53	23.37	23.65	
15	16QAM	1	37	23.45	23.34	23.47	
15	16QAM	1	74	23.62	23.52	23.41	24.5
15	16QAM	36	0	23.84	23.80	23.72	
15	16QAM	36	20	23.74	23.91	23.75	
15	16QAM	36	39	23.86	23.73	23.68	24.5
15	16QAM	75	0	23.67	23.91	23.82	
15	64QAM	1	0	23.64	23.85	23.57	
15	64QAM	1	37	23.84	23.88	23.63	24.5
15	64QAM	1	74	23.74	23.59	23.69	
15	64QAM	36	0	22.83	22.84	22.74	
15	64QAM	36	20	22.81	22.63	22.69	23.9
15	64QAM	36	39	22.89	22.79	22.76	
15	64QAM	75	0	22.75	22.67	22.84	
15	256QAM	1	0	21.25	21.01	20.79	21.9
15	256QAM	1	37	20.88	20.80	21.02	
15	256QAM	1	74	20.79	20.80	20.83	
15	256QAM	36	0	20.98	21.01	21.21	21.9
15	256QAM	36	20	20.95	20.79	20.90	
15	256QAM	36	39	21.02	21.09	20.95	



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15	256QAM	75	0	20.93	21.09	20.87	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.63	23.84	23.77	24.5
10	QPSK	1	25	23.76	23.74	23.70	
10	QPSK	1	49	23.67	23.79	23.68	
10	QPSK	25	0	23.56	23.86	23.68	24.5
10	QPSK	25	12	23.68	23.72	23.58	
10	QPSK	25	25	23.64	23.70	23.56	
10	QPSK	50	0	23.63	23.64	23.59	
10	16QAM	1	0	23.70	23.61	23.56	24.5
10	16QAM	1	25	23.36	23.38	23.48	
10	16QAM	1	49	23.70	23.51	23.43	
10	16QAM	25	0	23.89	23.80	23.73	24.5
10	16QAM	25	12	23.95	23.82	23.76	
10	16QAM	25	25	23.88	23.81	23.71	
10	16QAM	50	0	23.74	23.72	23.73	
10	64QAM	1	0	23.81	23.66	23.45	24.5
10	64QAM	1	25	23.78	23.83	23.66	
10	64QAM	1	49	23.67	23.63	23.62	
10	64QAM	25	0	22.71	22.71	22.74	23.9
10	64QAM	25	12	22.77	22.80	22.60	
10	64QAM	25	25	22.97	22.59	22.76	
10	64QAM	50	0	22.68	22.83	22.82	
10	256QAM	1	0	21.17	20.83	20.92	21.9
10	256QAM	1	25	21.10	20.72	21.14	
10	256QAM	1	49	20.93	20.69	20.87	
10	256QAM	25	0	20.84	20.98	21.02	21.9
10	256QAM	25	12	21.10	21.04	20.95	
10	256QAM	25	25	20.77	21.01	20.98	
10	256QAM	50	0	21.02	20.82	20.73	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.64	23.90	23.67	24.5
5	QPSK	1	12	23.85	23.76	23.73	
5	QPSK	1	24	23.71	23.84	23.77	
5	QPSK	12	0	23.60	23.82	23.64	24.5
5	QPSK	12	7	23.62	23.65	23.71	
5	QPSK	12	13	23.65	23.57	23.53	
5	QPSK	25	0	23.74	23.60	23.56	
5	16QAM	1	0	23.82	23.63	23.59	24.5
5	16QAM	1	12	23.39	23.39	23.40	
5	16QAM	1	24	23.62	23.60	23.55	
5	16QAM	12	0	23.74	23.77	23.80	24.5
5	16QAM	12	7	23.82	23.82	23.82	
5	16QAM	12	13	23.83	23.87	23.83	
5	16QAM	25	0	23.77	23.90	23.81	
5	64QAM	1	0	23.86	23.70	23.51	24.5
5	64QAM	1	12	23.71	23.86	23.50	
5	64QAM	1	24	23.66	23.63	23.77	
5	64QAM	12	0	22.65	22.75	22.62	23.9
5	64QAM	12	7	22.92	22.78	22.56	
5	64QAM	12	13	22.93	22.80	22.82	
5	64QAM	25	0	22.82	22.76	22.77	
5	256QAM	1	0	21.23	20.92	20.70	21.9
5	256QAM	1	12	20.88	20.91	21.17	
5	256QAM	1	24	21.07	20.93	20.81	
5	256QAM	12	0	20.80	20.97	21.04	21.9
5	256QAM	12	7	20.96	21.03	21.02	
5	256QAM	12	13	21.03	21.00	21.01	
5	256QAM	25	0	21.00	21.00	20.84	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.35	24.32	24.53	
20	QPSK	1	49	24.21	24.21	24.44	
20	QPSK	1	99	24.25	24.23	24.43	
20	QPSK	50	0	24.31	24.24	24.52	25
20	QPSK	50	24	24.19	24.15	24.32	
20	QPSK	50	50	24.25	24.17	24.42	
20	QPSK	100	0	24.28	24.19	24.44	25
20	16QAM	1	0	24.44	24.31	24.45	
20	16QAM	1	49	24.19	24.20	24.40	
20	16QAM	1	99	24.38	24.31	24.44	24.9
20	16QAM	50	0	23.10	23.30	23.73	
20	16QAM	50	24	23.28	23.12	23.25	
20	16QAM	50	50	23.27	23.38	23.32	24.9
20	16QAM	100	0	23.37	23.19	23.52	
20	64QAM	1	0	23.22	23.45	23.56	
20	64QAM	1	49	23.06	23.24	23.44	24.9
20	64QAM	1	99	23.25	23.21	23.28	
20	64QAM	50	0	22.49	22.32	22.69	
20	64QAM	50	24	22.29	22.53	22.51	23.9
20	64QAM	50	50	22.26	22.13	22.51	
20	64QAM	100	0	22.39	22.12	22.58	
20	256QAM	1	0	20.57	20.47	20.88	21.9
20	256QAM	1	49	20.32	20.36	20.74	
20	256QAM	1	99	20.55	20.63	20.81	
20	256QAM	50	0	20.57	20.44	20.65	21.9
20	256QAM	50	24	20.49	20.60	20.84	
20	256QAM	50	50	20.63	20.50	20.55	
20	256QAM	100	0	20.54	20.43	20.86	Tune-up limit (dBm)
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.34	24.12	24.44	25
15	QPSK	1	37	23.98	24.01	24.46	
15	QPSK	1	74	24.22	24.04	24.49	
15	QPSK	36	0	24.25	24.04	24.44	25
15	QPSK	36	20	24.14	24.09	24.23	
15	QPSK	36	39	24.24	24.05	24.37	
15	QPSK	75	0	24.16	23.96	24.18	25
15	16QAM	1	0	24.34	24.33	24.32	
15	16QAM	1	37	24.07	24.02	24.35	
15	16QAM	1	74	24.18	24.17	24.35	24.9
15	16QAM	36	0	23.43	23.37	23.49	
15	16QAM	36	20	23.19	23.14	23.25	
15	16QAM	36	39	23.43	23.37	23.28	24.9
15	16QAM	75	0	23.37	23.44	23.34	
15	64QAM	1	0	23.43	22.99	23.58	
15	64QAM	1	37	23.06	23.06	23.29	24.9
15	64QAM	1	74	23.12	23.01	23.28	
15	64QAM	36	0	22.14	22.07	22.31	
15	64QAM	36	20	22.19	22.41	22.21	23.9
15	64QAM	36	39	22.33	22.25	22.02	
15	64QAM	75	0	22.04	22.27	22.59	
15	256QAM	1	0	20.70	20.54	20.49	21.9
15	256QAM	1	37	20.16	19.98	20.55	
15	256QAM	1	74	20.54	20.51	20.54	
15	256QAM	36	0	20.69	20.19	20.57	21.9
15	256QAM	36	20	20.30	20.66	20.58	
15	256QAM	36	39	20.23	20.40	20.38	



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15	256QAM	75	0	20.51	20.39	20.74	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	24.32	24.26	24.39	25
10	QPSK	1	25	24.11	24.16	24.45	
10	QPSK	1	49	24.23	24.04	24.37	
10	QPSK	25	0	24.13	24.22	24.32	25
10	QPSK	25	12	24.09	24.12	24.14	
10	QPSK	25	25	24.06	24.16	24.25	
10	QPSK	50	0	24.14	24.16	24.26	
10	16QAM	1	0	24.45	24.24	24.39	25
10	16QAM	1	25	24.10	24.06	24.42	
10	16QAM	1	49	24.29	24.24	24.36	
10	16QAM	25	0	22.92	23.25	23.39	24.9
10	16QAM	25	12	23.01	23.05	23.10	
10	16QAM	25	25	23.06	23.14	23.41	
10	16QAM	50	0	23.34	23.34	23.65	
10	64QAM	1	0	22.98	23.35	23.46	24.9
10	64QAM	1	25	22.94	23.04	23.12	
10	64QAM	1	49	23.08	23.21	23.03	
10	64QAM	25	0	22.19	22.11	22.30	23.9
10	64QAM	25	12	22.16	22.16	22.15	
10	64QAM	25	25	22.19	22.00	22.22	
10	64QAM	50	0	22.28	22.25	22.32	
10	256QAM	1	0	20.46	20.48	20.51	21.9
10	256QAM	1	25	20.22	20.09	20.32	
10	256QAM	1	49	20.37	20.25	20.61	
10	256QAM	25	0	20.39	20.56	20.45	21.9
10	256QAM	25	12	20.37	20.37	20.47	
10	256QAM	25	25	20.23	20.38	20.72	
10	256QAM	50	0	20.72	20.52	20.53	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.33	24.31	24.41	25
5	QPSK	1	12	24.00	23.99	24.43	
5	QPSK	1	24	24.13	24.10	24.38	
5	QPSK	12	0	24.10	24.10	24.39	25
5	QPSK	12	7	24.12	24.02	24.24	
5	QPSK	12	13	24.09	24.09	24.26	
5	QPSK	25	0	24.19	23.96	24.23	
5	16QAM	1	0	24.47	24.32	24.34	25
5	16QAM	1	12	24.02	24.10	24.25	
5	16QAM	1	24	24.19	24.27	24.32	
5	16QAM	12	0	23.23	22.95	23.36	24.9
5	16QAM	12	7	23.11	23.14	23.38	
5	16QAM	12	13	23.03	23.21	23.20	
5	16QAM	25	0	23.28	23.11	23.56	
5	64QAM	1	0	23.35	23.11	23.38	24.9
5	64QAM	1	12	22.91	23.15	22.96	
5	64QAM	1	24	23.09	22.95	23.25	
5	64QAM	12	0	22.17	21.96	22.19	23.9
5	64QAM	12	7	21.92	22.35	22.51	
5	64QAM	12	13	22.12	22.16	22.38	
5	64QAM	25	0	22.43	22.04	22.68	
5	256QAM	1	0	20.66	20.22	20.81	21.9
5	256QAM	1	12	20.46	20.30	20.41	
5	256QAM	1	24	20.21	20.28	20.83	
5	256QAM	12	0	20.15	20.35	20.60	21.9
5	256QAM	12	7	20.49	20.24	20.53	
5	256QAM	12	13	20.58	20.33	20.43	
5	256QAM	25	0	20.32	20.50	20.77	



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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	24.20	24.26	24.28	24.26	24.11	25.1
20	QPSK	1	49	24.19	24.21	24.23	24.17	24.06	
20	QPSK	1	99	24.19	24.25	24.23	24.20	24.02	
20	QPSK	50	0	23.23	23.26	23.28	23.23	23.04	24.1
20	QPSK	50	24	23.22	23.25	23.26	23.20	23.01	
20	QPSK	50	50	23.20	23.24	23.24	23.22	23.00	
20	QPSK	100	0	23.20	23.25	23.25	23.21	23.02	24.1
20	16QAM	1	0	22.27	22.33	22.36	22.27	22.14	
20	16QAM	1	49	22.17	22.22	22.22	22.12	22.12	
20	16QAM	1	99	22.20	22.26	22.27	22.23	22.11	23.1
20	16QAM	50	0	22.20	22.23	22.23	22.20	22.03	
20	16QAM	50	24	22.21	22.24	22.22	22.21	22.03	
20	16QAM	50	50	22.20	22.21	22.22	22.19	22.01	23.1
20	16QAM	100	0	22.24	22.25	22.26	22.22	22.09	
20	64QAM	1	0	22.05	22.16	22.02	22.03	22.03	
20	64QAM	1	49	22.00	22.13	21.96	21.96	21.96	22.1
20	64QAM	1	99	22.02	22.15	22.06	21.95	21.90	
20	64QAM	50	0	21.20	21.24	21.22	21.20	21.08	
20	64QAM	50	24	21.19	21.22	21.25	21.26	21.01	20.1
20	64QAM	50	50	21.18	21.24	21.28	21.23	21.03	
20	64QAM	100	0	21.21	21.26	21.28	21.21	21.07	
20	256QAM	1	0	19.45	19.51	19.46	19.38	19.42	20.1
20	256QAM	1	49	19.35	19.49	19.38	19.33	19.37	
20	256QAM	1	99	19.40	19.51	19.44	19.35	19.32	
20	256QAM	50	0	19.15	19.20	19.25	19.24	19.04	20.1
20	256QAM	50	24	19.19	19.20	19.23	19.22	19.02	
20	256QAM	50	50	19.19	19.28	19.30	19.23	19.03	
20	256QAM	100	0	19.25	19.30	19.28	19.21	19.08	
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	24.01	24.07	24.16	24.14	23.92	25.10
15	QPSK	1	37	24.03	24.04	24.07	23.98	24.01	
15	QPSK	1	74	24.13	24.12	24.22	24.03	23.99	
15	QPSK	36	0	23.17	23.21	23.28	23.20	22.88	24.1
15	QPSK	36	20	23.18	23.24	23.12	23.05	22.83	
15	QPSK	36	39	23.15	23.12	23.08	23.18	22.89	
15	QPSK	75	0	23.13	23.19	23.13	23.03	23.01	24.1
15	16QAM	1	0	22.17	22.17	22.27	22.17	22.13	
15	16QAM	1	37	22.12	22.21	22.10	22.14	22.11	
15	16QAM	1	74	22.14	22.14	22.13	22.22	22.12	23.1
15	16QAM	36	0	22.01	22.05	22.12	22.15	21.88	
15	16QAM	36	20	22.20	22.19	22.10	22.09	21.98	
15	16QAM	36	39	22.01	22.07	22.11	22.10	21.99	23.1
15	16QAM	75	0	22.13	22.25	22.07	22.12	21.89	
15	64QAM	1	0	22.01	22.08	21.88	21.85	21.86	
15	64QAM	1	37	21.86	21.99	21.95	21.80	21.88	22.1
15	64QAM	1	74	21.84	22.07	21.95	21.89	21.76	
15	64QAM	36	0	21.19	21.14	21.04	21.07	20.99	
15	64QAM	36	20	21.15	21.19	21.20	21.14	21.01	20.1
15	64QAM	36	39	21.17	21.10	21.23	21.09	20.95	
15	64QAM	75	0	21.08	21.26	21.10	21.11	21.06	
15	256QAM	1	0	19.45	19.51	19.34	19.36	19.38	20.1
15	256QAM	1	37	19.32	19.33	19.26	19.21	19.23	
15	256QAM	1	74	19.32	19.38	19.39	19.35	19.24	
15	256QAM	36	0	19.10	19.13	19.14	19.18	19.03	20.1
15	256QAM	36	20	19.13	19.09	19.09	19.14	18.85	
15	256QAM	36	39	19.02	19.10	19.16	19.14	18.95	



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Report No. : FA3D2001D

15	256QAM	75	0	19.05	19.21	19.27	19.19	18.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.10	24.13	24.14	24.19	24.04	25.10
10	QPSK	1	25	24.07	24.13	24.10	24.11	24.06	
10	QPSK	1	49	24.08	24.06	24.09	24.10	23.85	
10	QPSK	25	0	23.05	23.22	23.27	23.03	22.87	24.1
10	QPSK	25	12	23.16	23.14	23.18	23.20	22.86	
10	QPSK	25	25	23.19	23.18	23.22	23.15	22.92	
10	QPSK	50	0	23.12	23.16	23.22	23.14	22.96	
10	16QAM	1	0	22.11	22.15	22.36	22.19	22.17	24.1
10	16QAM	1	25	22.16	22.21	22.14	22.12	22.11	
10	16QAM	1	49	22.20	22.12	22.10	22.13	22.12	
10	16QAM	25	0	22.16	22.13	22.05	22.01	21.86	23.1
10	16QAM	25	12	22.21	22.15	22.11	22.21	21.98	
10	16QAM	25	25	22.00	22.20	22.21	22.17	22.01	
10	16QAM	50	0	22.12	22.11	22.25	22.16	21.97	
10	64QAM	1	0	21.98	22.11	21.93	21.90	21.88	23.1
10	64QAM	1	25	21.93	21.97	21.88	21.89	21.96	
10	64QAM	1	49	21.97	22.01	21.92	21.90	21.88	
10	64QAM	25	0	21.20	21.15	21.20	21.20	20.97	22.1
10	64QAM	25	12	21.06	21.14	21.09	21.19	20.82	
10	64QAM	25	25	21.00	21.10	21.15	21.19	21.03	
10	64QAM	50	0	21.18	21.08	21.24	21.16	20.99	
10	256QAM	1	0	19.32	19.35	19.45	19.23	19.35	20.1
10	256QAM	1	25	19.32	19.32	19.32	19.22	19.27	
10	256QAM	1	49	19.33	19.37	19.28	19.25	19.13	
10	256QAM	25	0	19.06	19.06	19.06	19.21	18.94	20.1
10	256QAM	25	12	19.04	19.05	19.21	19.08	18.82	
10	256QAM	25	25	19.00	19.21	19.10	19.18	18.87	
10	256QAM	50	0	19.08	19.18	19.11	19.20	19.08	
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	24.01	24.14	24.27	24.24	23.98	25.10
5	QPSK	1	12	24.19	24.15	24.18	24.15	24.00	
5	QPSK	1	24	24.03	24.08	24.13	24.15	23.94	
5	QPSK	12	0	23.03	23.16	23.18	23.05	22.87	24.1
5	QPSK	12	7	23.15	23.20	23.07	23.17	22.95	
5	QPSK	12	13	23.17	23.04	23.09	23.06	22.93	
5	QPSK	25	0	23.18	23.18	23.12	23.13	23.00	
5	16QAM	1	0	22.19	22.15	22.25	22.26	22.13	24.1
5	16QAM	1	12	22.11	22.15	22.14	22.13	22.15	
5	16QAM	1	24	22.10	22.26	22.12	22.20	22.12	
5	16QAM	12	0	22.04	22.05	22.19	22.05	21.93	23.1
5	16QAM	12	7	22.14	22.22	22.04	22.10	21.94	
5	16QAM	12	13	22.02	22.17	22.08	22.09	21.91	
5	16QAM	25	0	22.20	22.18	22.09	22.02	21.89	
5	64QAM	1	0	22.02	22.00	21.89	22.02	21.94	23.1
5	64QAM	1	12	21.83	22.06	21.86	21.93	21.91	
5	64QAM	1	24	21.85	21.98	21.90	21.90	21.75	
5	64QAM	12	0	21.12	21.14	21.16	21.00	20.98	22.1
5	64QAM	12	7	21.03	21.15	21.09	21.20	20.93	
5	64QAM	12	13	20.98	21.20	21.27	21.06	21.02	
5	64QAM	25	0	21.05	21.08	21.23	21.16	20.96	
5	256QAM	1	0	19.25	19.37	19.38	19.29	19.36	20.1
5	256QAM	1	12	19.26	19.37	19.27	19.33	19.20	
5	256QAM	1	24	19.35	19.36	19.26	19.16	19.23	
5	256QAM	12	0	19.06	19.20	19.24	19.24	18.90	20.1
5	256QAM	12	7	19.01	19.05	19.23	19.17	19.00	
5	256QAM	12	13	19.10	19.27	19.30	19.21	18.93	
5	256QAM	25	0	19.16	19.17	19.17	19.01	19.02	



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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	20.05	20.06	20.08	19.82	19.74	20.4
20	QPSK	1	49	19.92	20.03	19.90	19.68	19.69	
20	QPSK	1	99	19.95	20.00	20.01	19.69	19.59	
20	QPSK	50	0	20.01	20.03	20.06	19.83	19.72	20.4
20	QPSK	50	24	19.95	20.01	19.98	19.82	19.72	
20	QPSK	50	50	19.99	19.99	20.04	19.82	19.56	
20	QPSK	100	0	19.86	20.00	20.02	19.75	19.61	20.4
20	16QAM	1	0	19.95	19.98	20.02	19.73	19.73	
20	16QAM	1	49	19.88	19.91	19.90	19.73	19.72	
20	16QAM	1	99	20.03	19.85	19.99	19.62	19.59	20.4
20	16QAM	50	0	20.04	19.92	19.90	19.74	19.57	
20	16QAM	50	24	19.90	20.00	19.95	19.74	19.73	
20	16QAM	50	50	19.95	19.88	19.97	19.63	19.63	20.4
20	16QAM	100	0	19.86	19.83	19.95	19.72	19.73	
20	64QAM	1	0	20.03	19.98	20.07	19.65	19.54	
20	64QAM	1	49	20.00	19.97	20.01	19.71	19.59	20.4
20	64QAM	1	99	19.90	20.00	19.97	19.82	19.64	
20	64QAM	50	0	19.86	20.03	19.89	19.70	19.62	
20	64QAM	50	24	19.99	19.95	19.94	19.80	19.59	20.4
20	64QAM	50	50	20.05	19.94	20.07	19.78	19.72	
20	64QAM	100	0	19.90	19.89	19.90	19.71	19.65	
20	256QAM	1	0	19.41	19.53	19.42	19.13	19.18	20.1
20	256QAM	1	49	19.38	19.45	19.39	19.19	19.17	
20	256QAM	1	99	19.47	19.49	19.51	19.29	19.08	
20	256QAM	50	0	19.36	19.51	19.56	19.20	19.06	20.1
20	256QAM	50	24	19.41	19.47	19.51	19.18	19.07	
20	256QAM	50	50	19.41	19.49	19.46	19.16	19.04	
20	256QAM	100	0	19.41	19.49	19.46	19.16	19.04	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)
15	QPSK	1	0	19.99	19.90	19.98	19.81	19.71	20.40
15	QPSK	1	37	19.72	19.98	19.73	19.50	19.67	
15	QPSK	1	74	19.82	19.80	19.88	19.56	19.43	
15	QPSK	36	0	19.98	19.85	20.04	19.81	19.72	20.4
15	QPSK	36	20	19.83	19.95	19.88	19.66	19.54	
15	QPSK	36	39	19.81	19.90	20.02	19.81	19.47	
15	QPSK	75	0	19.73	19.92	19.89	19.63	19.56	20.4
15	16QAM	1	0	19.95	19.87	19.93	19.72	19.72	
15	16QAM	1	37	19.70	19.74	19.85	19.73	19.67	
15	16QAM	1	74	19.97	19.74	19.92	19.61	19.57	20.4
15	16QAM	36	0	19.98	19.89	19.86	19.61	19.41	
15	16QAM	36	20	19.83	19.88	19.90	19.70	19.57	
15	16QAM	36	39	19.84	19.70	19.82	19.59	19.52	20.4
15	16QAM	75	0	19.83	19.67	19.78	19.52	19.71	
15	64QAM	1	0	19.86	19.81	20.03	19.53	19.35	
15	64QAM	1	37	19.88	19.89	19.95	19.67	19.55	20.4
15	64QAM	1	74	19.83	19.96	19.79	19.82	19.45	
15	64QAM	36	0	19.80	20.03	19.80	19.62	19.59	
15	64QAM	36	20	19.96	19.89	19.78	19.73	19.55	20.4
15	64QAM	36	39	19.85	19.74	20.01	19.70	19.70	
15	64QAM	75	0	19.87	19.71	19.89	19.59	19.52	
15	256QAM	1	0	19.38	19.41	19.31	19.07	19.15	20.1
15	256QAM	1	37	19.30	19.41	19.32	19.10	19.05	
15	256QAM	1	74	19.45	19.43	19.31	19.22	18.96	
15	256QAM	36	0	19.29	19.32	19.38	19.18	18.87	20.1
15	256QAM	36	20	19.40	19.46	19.36	19.00	18.88	
15	256QAM	36	39	19.28	19.30	19.42	19.13	19.03	



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15	256QAM	75	0	19.28	19.37	19.31	19.00	19.02	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	19.92	19.96	20.04	19.74	19.66	20.40
10	QPSK	1	25	19.76	19.92	19.82	19.61	19.58	
10	QPSK	1	49	19.91	19.81	19.89	19.52	19.54	
10	QPSK	25	0	19.97	20.01	19.90	19.64	19.63	20.4
10	QPSK	25	12	19.78	19.84	19.88	19.66	19.59	
10	QPSK	25	25	19.96	19.91	20.01	19.77	19.37	
10	QPSK	50	0	19.67	19.89	20.00	19.61	19.56	
10	16QAM	1	0	19.79	19.92	19.85	19.61	19.71	20.4
10	16QAM	1	25	19.83	19.81	19.83	19.65	19.55	
10	16QAM	1	49	19.88	19.65	19.83	19.55	19.42	
10	16QAM	25	0	20.04	19.78	19.83	19.54	19.47	20.4
10	16QAM	25	12	19.78	19.88	19.83	19.67	19.71	
10	16QAM	25	25	19.90	19.79	19.80	19.45	19.54	
10	16QAM	50	0	19.81	19.80	19.84	19.57	19.72	
10	64QAM	1	0	19.83	19.85	19.98	19.46	19.41	20.4
10	64QAM	1	25	19.86	19.77	19.99	19.66	19.47	
10	64QAM	1	49	19.85	19.83	19.82	19.64	19.47	
10	64QAM	25	0	19.66	20.01	19.72	19.52	19.51	20.4
10	64QAM	25	12	19.97	19.81	19.94	19.65	19.52	
10	64QAM	25	25	19.89	19.77	20.00	19.65	19.60	
10	64QAM	50	0	19.79	19.77	19.72	19.70	19.60	
10	256QAM	1	0	19.41	19.42	19.25	18.98	19.06	20.1
10	256QAM	1	25	19.25	19.30	19.36	19.15	19.07	
10	256QAM	1	49	19.37	19.46	19.46	19.13	19.08	
10	256QAM	25	0	19.19	19.42	19.43	19.07	19.06	20.1
10	256QAM	25	12	19.25	19.43	19.43	19.08	18.91	
10	256QAM	25	25	19.39	19.49	19.28	18.98	18.95	
10	256QAM	50	0	19.32	19.45	19.33	19.14	18.92	
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	19.93	20.03	19.92	19.69	19.62	20.40
5	QPSK	1	12	19.79	19.86	19.79	19.53	19.60	
5	QPSK	1	24	19.88	19.88	19.95	19.56	19.47	
5	QPSK	12	0	19.85	19.85	19.99	19.72	19.53	20.4
5	QPSK	12	7	19.77	19.83	19.96	19.65	19.64	
5	QPSK	12	13	19.85	19.85	19.84	19.71	19.39	
5	QPSK	25	0	19.80	19.97	19.87	19.75	19.54	
5	16QAM	1	0	19.79	19.84	20.01	19.66	19.58	20.4
5	16QAM	1	12	19.88	19.73	19.74	19.61	19.55	
5	16QAM	1	24	19.86	19.67	19.91	19.58	19.41	
5	16QAM	12	0	19.85	19.81	19.79	19.61	19.42	20.4
5	16QAM	12	7	19.83	19.99	19.81	19.70	19.68	
5	16QAM	12	13	19.77	19.76	19.96	19.63	19.53	
5	16QAM	25	0	19.83	19.64	19.81	19.62	19.59	
5	64QAM	1	0	20.03	19.81	20.00	19.57	19.37	20.4
5	64QAM	1	12	19.93	19.77	19.82	19.67	19.57	
5	64QAM	1	24	19.73	19.95	19.92	19.63	19.51	
5	64QAM	12	0	19.85	19.84	19.72	19.56	19.59	20.4
5	64QAM	12	7	19.94	19.78	19.74	19.73	19.50	
5	64QAM	12	13	20.04	19.77	19.99	19.74	19.68	
5	64QAM	25	0	19.86	19.88	19.75	19.68	19.51	
5	256QAM	1	0	19.35	19.36	19.31	18.97	19.00	20.1
5	256QAM	1	12	19.34	19.28	19.21	19.03	19.00	
5	256QAM	1	24	19.36	19.39	19.34	19.13	18.99	
5	256QAM	12	0	19.28	19.47	19.54	19.08	18.87	20.1
5	256QAM	12	7	19.34	19.36	19.38	19.03	19.02	
5	256QAM	12	13	19.36	19.32	19.33	19.06	18.93	
5	256QAM	25	0	19.26	19.48	19.29	19.15	18.97	



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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	24.30	24.32	24.30	24.24	24.25	25.1
20	QPSK	1	49	24.29	24.29	24.28	24.23	24.24	
20	QPSK	1	99	24.29	24.28	24.29	24.21	23.91	
20	QPSK	50	0	23.30	23.35	23.25	23.21	23.19	24.1
20	QPSK	50	24	23.29	23.29	23.22	23.20	23.18	
20	QPSK	50	50	23.28	23.30	23.23	23.20	23.17	
20	QPSK	100	0	23.29	23.33	23.26	23.20	23.18	24.1
20	16QAM	1	0	22.38	22.35	22.33	22.30	22.24	
20	16QAM	1	49	22.30	22.32	22.30	22.33	22.23	
20	16QAM	1	99	22.29	22.32	22.36	22.30	22.22	23.1
20	16QAM	50	0	22.32	22.29	22.22	22.22	22.18	
20	16QAM	50	24	22.28	22.27	22.21	22.20	22.18	
20	16QAM	50	50	22.29	22.26	22.22	22.20	22.17	23.1
20	16QAM	100	0	22.32	22.31	22.25	22.22	22.22	
20	64QAM	1	0	22.23	22.07	22.05	22.05	22.06	
20	64QAM	1	49	22.18	22.00	21.96	22.04	21.95	22.1
20	64QAM	1	99	22.24	22.10	22.05	22.07	21.81	
20	64QAM	50	0	21.27	21.24	21.21	21.16	21.16	
20	64QAM	50	24	21.26	21.22	21.19	21.19	21.13	22.1
20	64QAM	50	50	21.24	21.23	21.19	21.16	21.12	
20	64QAM	100	0	21.29	21.25	21.21	21.19	21.18	
20	256QAM	1	0	19.44	19.27	19.31	19.33	19.29	20.1
20	256QAM	1	49	19.47	19.30	19.25	19.29	19.17	
20	256QAM	1	99	19.47	19.40	19.26	19.31	19.04	
20	256QAM	50	0	19.57	19.52	19.45	19.38	19.40	20.1
20	256QAM	50	24	19.51	19.47	19.41	19.41	19.39	
20	256QAM	50	50	19.51	19.51	19.42	19.43	19.34	
20	256QAM	100	0	19.50	19.53	19.51	19.48	19.46	
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	24.10	24.29	24.15	24.19	24.15	25.10
15	QPSK	1	37	24.15	24.12	24.18	24.15	24.09	
15	QPSK	1	74	24.12	24.20	24.19	24.16	23.79	
15	QPSK	36	0	23.23	23.21	23.05	23.16	23.04	24.1
15	QPSK	36	20	23.23	23.20	23.20	23.01	22.98	
15	QPSK	36	39	23.21	23.27	23.08	23.17	23.17	
15	QPSK	75	0	23.19	23.21	23.07	23.13	23.05	24.1
15	16QAM	1	0	22.36	22.28	22.22	22.30	22.19	
15	16QAM	1	37	22.25	22.23	22.25	22.25	22.15	
15	16QAM	1	74	22.28	22.14	22.21	22.14	22.16	23.1
15	16QAM	36	0	22.30	22.21	22.09	22.05	21.98	
15	16QAM	36	20	22.21	22.24	22.08	22.14	22.14	
15	16QAM	36	39	22.18	22.12	22.22	22.04	22.08	23.1
15	16QAM	75	0	22.30	22.27	22.24	22.06	22.22	
15	64QAM	1	0	22.16	22.05	22.01	22.03	22.03	
15	64QAM	1	37	22.09	21.99	21.80	21.88	21.81	23.1
15	64QAM	1	74	22.06	21.98	21.96	21.90	21.78	
15	64QAM	36	0	21.14	21.11	21.14	21.09	21.08	
15	64QAM	36	20	21.18	21.12	21.13	21.18	21.04	22.1
15	64QAM	36	39	21.24	21.12	21.13	20.96	20.92	
15	64QAM	75	0	21.29	21.23	21.19	21.08	21.13	
15	256QAM	1	0	19.38	19.08	19.19	19.32	19.21	20.1
15	256QAM	1	37	19.27	19.18	19.20	19.17	19.10	
15	256QAM	1	74	19.47	19.38	19.16	19.15	18.86	
15	256QAM	36	0	19.39	19.44	19.28	19.29	19.32	20.1
15	256QAM	36	20	19.42	19.41	19.26	19.39	19.39	
15	256QAM	36	39	19.45	19.37	19.35	19.32	19.25	



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15	256QAM	75	0	19.36	19.53	19.33	19.42	19.35	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.28	24.19	24.30	24.17	24.20	25.10
10	QPSK	1	25	24.13	24.20	24.20	24.17	24.18	
10	QPSK	1	49	24.18	24.09	24.28	24.20	23.91	
10	QPSK	25	0	23.22	23.18	23.11	23.15	23.13	24.1
10	QPSK	25	12	23.27	23.20	23.10	23.06	23.17	
10	QPSK	25	25	23.11	23.30	23.14	23.07	23.06	
10	QPSK	50	0	23.22	23.29	23.15	23.03	23.10	
10	16QAM	1	0	22.34	22.21	22.20	22.26	22.28	24.1
10	16QAM	1	25	22.15	22.12	22.19	22.24	22.10	
10	16QAM	1	49	22.12	22.24	22.16	22.30	22.16	
10	16QAM	25	0	22.18	22.23	22.05	22.04	22.01	23.1
10	16QAM	25	12	22.11	22.17	22.21	22.20	22.10	
10	16QAM	25	25	22.29	22.16	22.10	22.10	22.03	
10	16QAM	50	0	22.28	22.25	22.20	22.07	22.06	
10	64QAM	1	0	22.10	21.91	21.87	21.87	21.93	23.1
10	64QAM	1	25	22.05	21.81	21.84	21.87	21.83	
10	64QAM	1	49	22.22	22.02	22.02	21.95	21.61	
10	64QAM	25	0	21.25	21.14	21.11	21.10	21.12	22.1
10	64QAM	25	12	21.09	21.03	21.00	21.01	21.01	
10	64QAM	25	25	21.18	21.06	21.00	21.07	21.01	
10	64QAM	50	0	21.26	21.18	21.15	21.08	21.04	
10	256QAM	1	0	19.40	19.07	19.24	19.31	19.26	20.1
10	256QAM	1	25	19.31	19.15	19.22	19.12	19.05	
10	256QAM	1	49	19.29	19.21	19.07	19.16	19.02	
10	256QAM	25	0	19.44	19.48	19.45	19.33	19.36	20.1
10	256QAM	25	12	19.34	19.35	19.39	19.23	19.19	
10	256QAM	25	25	19.33	19.44	19.32	19.43	19.31	
10	256QAM	50	0	19.44	19.49	19.44	19.37	19.26	
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	24.16	24.21	24.12	24.12	24.17	25.10
5	QPSK	1	12	24.13	24.21	24.19	24.21	24.04	
5	QPSK	1	24	24.23	24.21	24.12	24.18	23.83	
5	QPSK	12	0	23.15	23.33	23.07	23.15	23.06	24.1
5	QPSK	12	7	23.15	23.10	23.10	23.12	23.07	
5	QPSK	12	13	23.18	23.20	23.18	23.03	23.06	
5	QPSK	25	0	23.23	23.21	23.17	23.10	23.18	
5	16QAM	1	0	22.21	22.22	22.24	22.13	22.21	24.1
5	16QAM	1	12	22.11	22.29	22.25	22.23	22.26	
5	16QAM	1	24	22.19	22.28	22.20	22.24	22.18	
5	16QAM	12	0	22.17	22.25	22.02	22.16	22.04	23.1
5	16QAM	12	7	22.08	22.11	22.08	22.05	22.15	
5	16QAM	12	13	22.13	22.15	22.09	22.18	22.04	
5	16QAM	25	0	22.25	22.17	22.13	22.09	22.13	
5	64QAM	1	0	22.10	22.02	21.86	22.01	22.02	23.1
5	64QAM	1	12	22.13	22.00	21.96	21.96	21.79	
5	64QAM	1	24	22.05	21.95	22.03	21.94	21.71	
5	64QAM	12	0	21.10	21.14	21.15	21.07	21.15	22.1
5	64QAM	12	7	21.10	21.16	21.14	21.04	21.03	
5	64QAM	12	13	21.24	21.08	21.01	21.15	20.99	
5	64QAM	25	0	21.26	21.19	21.12	21.17	21.08	
5	256QAM	1	0	19.36	19.18	19.29	19.25	19.28	20.1
5	256QAM	1	12	19.28	19.22	19.13	19.10	19.12	
5	256QAM	1	24	19.42	19.30	19.06	19.30	18.90	
5	256QAM	12	0	19.47	19.50	19.28	19.34	19.23	20.1
5	256QAM	12	7	19.38	19.39	19.34	19.36	19.21	
5	256QAM	12	13	19.40	19.44	19.42	19.34	19.22	
5	256QAM	25	0	19.36	19.43	19.47	19.34	19.46	



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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	23.93	23.73	24.02	23.83	23.78	25.1
20	QPSK	1	49	23.83	23.69	24.01	23.78	23.79	
20	QPSK	1	99	23.77	23.73	23.86	23.83	23.77	
20	QPSK	50	0	22.85	22.77	22.95	22.80	22.74	24.1
20	QPSK	50	24	22.85	22.76	22.91	22.78	22.71	
20	QPSK	50	50	22.80	22.67	22.80	22.72	22.72	
20	QPSK	100	0	22.79	22.70	22.91	22.73	22.66	24.1
20	16QAM	1	0	22.35	22.22	22.45	22.27	22.23	
20	16QAM	1	49	22.28	22.23	22.35	22.26	22.22	
20	16QAM	1	99	22.31	22.21	22.35	22.21	22.20	23.1
20	16QAM	50	0	21.82	21.68	21.90	21.75	21.68	
20	16QAM	50	24	21.79	21.65	21.78	21.74	21.73	
20	16QAM	50	50	21.72	21.68	21.89	21.74	21.68	23.1
20	16QAM	100	0	21.79	21.78	21.74	21.71	21.68	
20	64QAM	1	0	21.83	21.64	21.96	21.74	21.69	
20	64QAM	1	49	21.75	21.61	21.83	21.65	21.70	23.1
20	64QAM	1	99	21.71	21.68	21.79	21.65	21.61	
20	64QAM	50	0	20.84	20.71	20.98	20.55	20.52	
20	64QAM	50	24	20.81	20.69	20.84	20.58	20.50	22.1
20	64QAM	50	50	20.71	20.64	20.91	20.57	20.49	
20	64QAM	100	0	20.79	20.68	20.80	20.55	20.49	
20	256QAM	1	0	19.04	18.88	19.16	18.94	18.99	20.1
20	256QAM	1	49	18.98	18.83	19.10	18.88	18.98	
20	256QAM	1	99	18.99	18.91	19.07	18.86	18.86	
20	256QAM	50	0	19.14	19.00	19.25	18.80	18.73	20.1
20	256QAM	50	24	19.10	18.91	19.08	18.80	18.77	
20	256QAM	50	50	18.91	18.85	19.20	18.79	18.78	
20	256QAM	100	0	19.03	18.96	19.07	18.75	18.75	
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	23.90	23.66	23.89	23.69	23.70	25.10
15	QPSK	1	37	23.80	23.51	24.00	23.63	23.67	
15	QPSK	1	74	23.72	23.73	23.73	23.65	23.64	
15	QPSK	36	0	22.67	22.70	22.85	22.74	22.56	24.1
15	QPSK	36	20	22.81	22.60	22.82	22.63	22.66	
15	QPSK	36	39	22.74	22.67	22.62	22.67	22.58	
15	QPSK	75	0	22.59	22.55	22.73	22.72	22.64	24.1
15	16QAM	1	0	22.26	22.31	22.42	22.34	22.34	
15	16QAM	1	37	22.23	22.33	22.24	22.25	22.29	
15	16QAM	1	74	22.39	22.35	22.21	22.24	22.24	23.1
15	16QAM	36	0	21.81	21.68	21.77	21.63	21.65	
15	16QAM	36	20	21.61	21.60	21.71	21.56	21.70	
15	16QAM	36	39	21.57	21.58	21.82	21.59	21.57	23.1
15	16QAM	75	0	21.77	21.69	21.70	21.59	21.50	
15	64QAM	1	0	21.66	21.55	21.94	21.73	21.64	
15	64QAM	1	37	21.62	21.48	21.80	21.48	21.63	23.1
15	64QAM	1	74	21.52	21.51	21.62	21.64	21.58	
15	64QAM	36	0	20.68	20.63	20.79	20.47	20.34	
15	64QAM	36	20	20.67	20.56	20.66	20.41	20.37	22.1
15	64QAM	36	39	20.58	20.59	20.77	20.49	20.29	
15	64QAM	75	0	20.75	20.51	20.79	20.44	20.42	
15	256QAM	1	0	18.98	18.72	19.01	18.94	18.95	20.1
15	256QAM	1	37	18.95	18.69	19.01	18.78	18.98	
15	256QAM	1	74	18.80	18.87	19.00	18.81	18.86	
15	256QAM	36	0	18.99	19.00	19.12	18.74	18.58	20.1
15	256QAM	36	20	19.09	18.82	18.91	18.65	18.74	
15	256QAM	36	39	18.91	18.69	19.10	18.78	18.58	



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15	256QAM	75	0	19.02	18.89	19.02	18.61	18.58	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.92	23.72	23.89	23.76	23.73	25.10
10	QPSK	1	25	23.83	23.68	24.00	23.76	23.71	
10	QPSK	1	49	23.74	23.58	23.70	23.72	23.58	
10	QPSK	25	0	22.65	22.70	22.93	22.64	22.63	24.1
10	QPSK	25	12	22.85	22.57	22.90	22.66	22.60	
10	QPSK	25	25	22.67	22.64	22.79	22.54	22.58	
10	QPSK	50	0	22.77	22.55	22.71	22.55	22.51	24.1
10	16QAM	1	0	22.31	22.22	22.35	22.24	22.35	
10	16QAM	1	25	22.21	22.33	22.30	22.22	22.37	
10	16QAM	1	49	22.26	22.38	22.28	22.38	22.32	23.1
10	16QAM	25	0	21.75	21.66	21.84	21.64	21.50	
10	16QAM	25	12	21.60	21.53	21.69	21.65	21.60	
10	16QAM	25	25	21.65	21.48	21.86	21.55	21.60	23.1
10	16QAM	50	0	21.62	21.67	21.63	21.65	21.52	
10	64QAM	1	0	21.64	21.61	21.78	21.56	21.67	
10	64QAM	1	25	21.66	21.42	21.65	21.54	21.57	23.1
10	64QAM	1	49	21.58	21.63	21.63	21.48	21.58	
10	64QAM	25	0	20.64	20.56	20.87	20.43	20.37	
10	64QAM	25	12	20.71	20.52	20.81	20.42	20.33	22.1
10	64QAM	25	25	20.61	20.47	20.86	20.54	20.44	
10	64QAM	50	0	20.66	20.50	20.61	20.44	20.33	
10	256QAM	1	0	19.03	18.74	18.98	18.92	18.87	20.1
10	256QAM	1	25	18.90	18.68	19.01	18.75	18.93	
10	256QAM	1	49	18.96	18.89	19.00	18.66	18.71	
10	256QAM	25	0	19.02	18.95	19.08	18.62	18.53	20.1
10	256QAM	25	12	19.03	18.72	18.90	18.62	18.67	
10	256QAM	25	25	18.72	18.70	19.11	18.60	18.66	
10	256QAM	50	0	19.02	18.92	18.97	18.65	18.64	
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	23.84	23.54	24.00	23.77	23.75	25.10
5	QPSK	1	12	23.80	23.63	23.94	23.63	23.74	
5	QPSK	1	24	23.74	23.62	23.73	23.67	23.62	
5	QPSK	12	0	22.79	22.62	22.76	22.72	22.69	24.1
5	QPSK	12	7	22.85	22.60	22.85	22.60	22.52	
5	QPSK	12	13	22.77	22.59	22.66	22.68	22.58	
5	QPSK	25	0	22.75	22.50	22.87	22.55	22.65	24.1
5	16QAM	1	0	22.35	22.23	22.32	22.21	22.26	
5	16QAM	1	12	22.27	22.24	22.27	22.26	22.29	
5	16QAM	1	24	22.27	22.22	22.34	22.23	22.35	23.1
5	16QAM	12	0	21.74	21.48	21.81	21.57	21.61	
5	16QAM	12	7	21.72	21.57	21.66	21.58	21.63	
5	16QAM	12	13	21.71	21.63	21.74	21.66	21.54	23.1
5	16QAM	25	0	21.77	21.72	21.63	21.69	21.68	
5	64QAM	1	0	21.70	21.50	21.84	21.54	21.54	
5	64QAM	1	12	21.60	21.45	21.77	21.45	21.70	23.1
5	64QAM	1	24	21.62	21.48	21.67	21.59	21.51	
5	64QAM	12	0	20.78	20.70	20.95	20.46	20.33	
5	64QAM	12	7	20.65	20.54	20.76	20.47	20.40	22.1
5	64QAM	12	13	20.65	20.54	20.84	20.37	20.31	
5	64QAM	25	0	20.67	20.61	20.67	20.44	20.37	
5	256QAM	1	0	18.92	18.88	18.96	18.82	18.80	20.1
5	256QAM	1	12	18.82	18.80	18.90	18.68	18.80	
5	256QAM	1	24	18.86	18.88	19.03	18.67	18.76	
5	256QAM	12	0	19.00	18.93	19.20	18.68	18.71	20.1
5	256QAM	12	7	19.09	18.85	18.98	18.74	18.76	
5	256QAM	12	13	18.79	18.74	19.00	18.64	18.66	
5	256QAM	25	0	19.02	18.76	18.88	18.74	18.57	



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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	20.13	20.14	20.17	20.13	20.02	20.3
20	QPSK	1	49	20.12	20.13	20.11	20.10	19.97	
20	QPSK	1	99	20.12	20.11	20.13	20.09	19.92	
20	QPSK	50	0	20.09	20.13	20.15	20.13	19.97	20.3
20	QPSK	50	24	20.09	20.13	20.12	20.09	19.94	
20	QPSK	50	50	20.06	20.12	20.13	20.09	19.89	
20	QPSK	100	0	20.12	20.13	20.14	20.08	19.95	20.3
20	16QAM	1	0	19.92	20.00	19.93	20.10	19.76	
20	16QAM	1	49	19.86	19.99	19.93	20.05	19.70	
20	16QAM	1	99	19.87	19.93	19.97	20.05	19.70	20.3
20	16QAM	50	0	20.05	20.14	20.16	20.09	19.96	
20	16QAM	50	24	20.08	20.16	20.15	20.12	19.90	
20	16QAM	50	50	20.09	20.16	20.10	20.16	19.89	20.3
20	16QAM	100	0	20.11	20.11	20.10	20.14	19.97	
20	64QAM	1	0	19.96	19.88	19.96	20.13	19.94	
20	64QAM	1	49	19.82	19.92	20.03	20.02	19.87	20.3
20	64QAM	1	99	19.90	19.85	20.04	20.06	19.78	
20	64QAM	50	0	20.09	20.13	20.11	20.11	19.94	
20	64QAM	50	24	20.08	20.14	20.15	20.16	19.94	20.3
20	64QAM	50	50	20.07	20.14	20.11	20.16	19.90	
20	64QAM	100	0	20.10	20.14	20.09	20.14	19.99	
20	256QAM	1	0	19.82	20.08	20.01	20.07	19.84	20.1
20	256QAM	1	49	19.79	20.00	20.08	20.08	19.68	
20	256QAM	1	99	19.90	19.87	20.02	19.95	19.88	
20	256QAM	50	0	19.99	20.01	20.00	19.97	19.83	20.1
20	256QAM	50	24	20.01	20.05	20.01	20.04	19.70	
20	256QAM	50	50	20.00	20.10	20.05	19.94	19.95	
20	256QAM	100	0	19.95	20.02	19.92	19.94	19.84	20.1
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)
15	QPSK	1	0	19.96	20.03	20.00	19.94	19.82	20.30
15	QPSK	1	37	20.10	19.97	19.98	20.06	19.93	
15	QPSK	1	74	20.06	20.08	19.97	20.06	19.80	
15	QPSK	36	0	19.96	20.10	20.07	20.13	19.92	20.3
15	QPSK	36	20	20.04	19.96	20.08	19.92	19.82	
15	QPSK	36	39	20.02	20.06	19.95	19.99	19.80	
15	QPSK	75	0	20.04	20.10	20.11	20.07	19.83	20.3
15	16QAM	1	0	19.73	19.98	19.75	20.05	19.72	
15	16QAM	1	37	19.83	19.90	19.78	19.93	19.53	
15	16QAM	1	74	19.74	19.89	19.95	19.98	19.50	20.3
15	16QAM	36	0	19.99	20.11	20.03	19.94	19.80	
15	16QAM	36	20	20.03	20.16	20.00	20.12	19.78	
15	16QAM	36	39	19.92	20.15	20.10	20.01	19.88	20.3
15	16QAM	75	0	20.06	20.00	19.94	20.11	19.84	
15	64QAM	1	0	19.91	19.69	19.89	20.12	19.94	
15	64QAM	1	37	19.71	19.83	19.83	20.02	19.69	20.3
15	64QAM	1	74	19.76	19.77	19.91	20.03	19.58	
15	64QAM	36	0	19.95	20.07	19.97	20.08	19.88	
15	64QAM	36	20	19.98	20.11	20.05	20.10	19.75	20.3
15	64QAM	36	39	19.88	20.10	19.95	20.15	19.70	
15	64QAM	75	0	20.08	19.99	19.94	20.13	19.87	
15	256QAM	1	0	19.73	20.08	19.93	20.06	19.78	20.1
15	256QAM	1	37	19.74	19.83	20.01	19.95	19.60	
15	256QAM	1	74	19.72	19.74	20.02	19.84	19.79	
15	256QAM	36	0	19.84	19.94	19.99	19.80	19.68	20.1
15	256QAM	36	20	19.97	20.03	19.95	19.94	19.59	
15	256QAM	36	39	20.00	20.06	19.90	19.78	19.95	



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15	256QAM	75	0	19.85	19.90	19.75	19.84	19.75	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.04	19.95	20.16	20.05	20.02	20.30
10	QPSK	1	25	19.96	20.13	20.03	20.09	19.79	
10	QPSK	1	49	20.04	20.07	20.10	20.06	19.76	
10	QPSK	25	0	20.06	19.98	20.00	20.07	19.85	20.3
10	QPSK	25	12	20.04	20.00	20.01	19.89	19.94	
10	QPSK	25	25	20.06	19.92	20.03	19.97	19.76	
10	QPSK	50	0	20.08	19.96	20.04	20.01	19.90	
10	16QAM	1	0	19.74	19.98	19.89	19.93	19.74	20.3
10	16QAM	1	25	19.67	19.81	19.79	19.93	19.58	
10	16QAM	1	49	19.87	19.93	19.90	19.97	19.64	
10	16QAM	25	0	20.02	20.10	20.00	20.06	19.86	20.3
10	16QAM	25	12	19.88	20.15	20.14	20.02	19.87	
10	16QAM	25	25	19.93	19.99	20.02	20.02	19.87	
10	16QAM	50	0	20.06	20.03	20.01	20.00	19.81	
10	64QAM	1	0	19.91	19.82	19.82	20.03	19.74	20.3
10	64QAM	1	25	19.73	19.78	19.90	20.02	19.79	
10	64QAM	1	49	19.73	19.69	20.04	20.01	19.67	
10	64QAM	25	0	19.98	20.04	19.98	20.11	19.90	20.3
10	64QAM	25	12	20.07	20.11	19.96	20.02	19.92	
10	64QAM	25	25	20.07	19.99	20.08	20.08	19.73	
10	64QAM	50	0	19.95	19.98	20.07	20.01	19.82	
10	256QAM	1	0	19.62	20.03	19.96	19.95	19.71	20.1
10	256QAM	1	25	19.70	19.89	20.06	19.94	19.53	
10	256QAM	1	49	19.89	19.75	19.97	19.87	19.88	
10	256QAM	25	0	19.98	19.98	19.82	19.79	19.68	20.1
10	256QAM	25	12	19.95	19.85	19.93	20.02	19.57	
10	256QAM	25	25	19.99	20.00	19.92	19.90	19.82	
10	256QAM	50	0	19.92	19.91	19.82	19.88	19.67	
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	19.98	19.95	19.98	20.08	19.98	20.30
5	QPSK	1	12	19.99	20.01	20.10	20.03	19.78	
5	QPSK	1	24	19.97	20.03	19.94	19.95	19.88	
5	QPSK	12	0	20.03	20.00	19.98	20.01	19.79	20.3
5	QPSK	12	7	20.04	20.09	20.01	20.06	19.87	
5	QPSK	12	13	20.02	19.99	20.00	20.09	19.70	
5	QPSK	25	0	20.06	20.04	19.95	19.93	19.79	
5	16QAM	1	0	19.77	19.86	19.74	19.95	19.63	20.3
5	16QAM	1	12	19.67	19.88	19.75	19.99	19.50	
5	16QAM	1	24	19.83	19.90	19.77	20.03	19.58	
5	16QAM	12	0	19.87	20.11	20.05	20.09	19.81	20.3
5	16QAM	12	7	19.92	20.09	20.15	19.93	19.76	
5	16QAM	12	13	20.09	19.99	20.06	20.00	19.88	
5	16QAM	25	0	19.94	20.01	19.96	19.95	19.90	
5	64QAM	1	0	19.96	19.79	19.93	19.97	19.83	20.3
5	64QAM	1	12	19.81	19.84	19.84	19.94	19.76	
5	64QAM	1	24	19.89	19.80	20.02	20.03	19.70	
5	64QAM	12	0	19.93	20.01	20.06	19.98	19.92	20.3
5	64QAM	12	7	20.03	20.04	20.09	20.08	19.83	
5	64QAM	12	13	19.87	19.99	19.99	20.10	19.76	
5	64QAM	25	0	20.06	20.02	19.95	20.09	19.93	
5	256QAM	1	0	19.63	20.03	19.86	19.90	19.74	20.1
5	256QAM	1	12	19.69	19.83	20.06	20.07	19.57	
5	256QAM	1	24	19.73	19.81	19.95	19.94	19.80	
5	256QAM	12	0	19.82	19.98	19.97	19.81	19.72	20.1
5	256QAM	12	7	19.99	19.90	19.86	19.94	19.62	
5	256QAM	12	13	19.95	19.91	19.91	19.87	19.78	
5	256QAM	25	0	19.77	19.92	19.86	19.77	19.79	



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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	20.05	20.06	20.08	19.82	19.74	20.8
20	QPSK	1	49	19.92	20.03	19.90	19.68	19.69	
20	QPSK	1	99	19.95	20.00	20.01	19.69	19.59	
20	QPSK	50	0	20.01	20.03	20.06	19.83	19.72	20.8
20	QPSK	50	24	19.95	20.01	19.98	19.82	19.72	
20	QPSK	50	50	19.99	19.99	20.04	19.82	19.56	
20	QPSK	100	0	19.86	20.00	20.02	19.75	19.61	20.8
20	16QAM	1	0	19.95	19.98	20.02	19.73	19.73	
20	16QAM	1	49	19.88	19.91	19.90	19.73	19.72	
20	16QAM	1	99	20.03	19.85	19.99	19.62	19.59	20.8
20	16QAM	50	0	20.04	19.92	19.90	19.74	19.57	
20	16QAM	50	24	19.90	20.00	19.95	19.74	19.73	
20	16QAM	50	50	19.95	19.88	19.97	19.63	19.63	20.8
20	16QAM	100	0	19.86	19.83	19.95	19.72	19.73	
20	64QAM	1	0	20.03	19.98	20.07	19.65	19.54	
20	64QAM	1	49	20.00	19.97	20.01	19.71	19.59	20.8
20	64QAM	1	99	19.90	20.00	19.97	19.82	19.64	
20	64QAM	50	0	19.86	20.03	19.89	19.70	19.62	
20	64QAM	50	24	19.99	19.95	19.94	19.80	19.59	20.8
20	64QAM	50	50	20.05	19.94	20.07	19.78	19.72	
20	64QAM	100	0	19.90	19.89	19.90	19.71	19.65	
20	256QAM	1	0	19.41	19.53	19.42	19.13	19.18	20.1
20	256QAM	1	49	19.38	19.45	19.39	19.19	19.17	
20	256QAM	1	99	19.47	19.49	19.51	19.29	19.08	
20	256QAM	50	0	19.36	19.51	19.56	19.20	19.06	20.1
20	256QAM	50	24	19.41	19.47	19.51	19.18	19.07	
20	256QAM	50	50	19.41	19.49	19.46	19.16	19.04	
20	256QAM	100	0	19.41	19.49	19.46	19.16	19.04	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.99	19.90	19.98	19.81	19.71	20.80
15	QPSK	1	37	19.72	19.98	19.73	19.50	19.67	
15	QPSK	1	74	19.82	19.80	19.88	19.56	19.43	
15	QPSK	36	0	19.98	19.85	20.04	19.81	19.72	20.8
15	QPSK	36	20	19.83	19.95	19.88	19.66	19.54	
15	QPSK	36	39	19.81	19.90	20.02	19.81	19.47	
15	QPSK	75	0	19.73	19.92	19.89	19.63	19.56	
15	16QAM	1	0	19.95	19.87	19.93	19.72	19.72	20.8
15	16QAM	1	37	19.70	19.74	19.85	19.73	19.67	
15	16QAM	1	74	19.97	19.74	19.92	19.61	19.57	
15	16QAM	36	0	19.98	19.89	19.86	19.61	19.41	20.8
15	16QAM	36	20	19.83	19.88	19.90	19.70	19.57	
15	16QAM	36	39	19.84	19.70	19.82	19.59	19.52	
15	16QAM	75	0	19.83	19.67	19.78	19.52	19.71	
15	64QAM	1	0	19.86	19.81	20.03	19.53	19.35	20.8
15	64QAM	1	37	19.88	19.89	19.95	19.67	19.55	
15	64QAM	1	74	19.83	19.96	19.79	19.82	19.45	
15	64QAM	36	0	19.80	20.03	19.80	19.62	19.59	20.8
15	64QAM	36	20	19.96	19.89	19.78	19.73	19.55	
15	64QAM	36	39	19.85	19.74	20.01	19.70	19.70	
15	64QAM	75	0	19.87	19.71	19.89	19.59	19.52	
15	256QAM	1	0	19.38	19.41	19.31	19.07	19.15	20.1
15	256QAM	1	37	19.30	19.41	19.32	19.10	19.05	
15	256QAM	1	74	19.45	19.43	19.31	19.22	18.96	
15	256QAM	36	0	19.29	19.32	19.38	19.18	18.87	20.1
15	256QAM	36	20	19.40	19.46	19.36	19.00	18.88	
15	256QAM	36	39	19.28	19.30	19.42	19.13	19.03	



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15	256QAM	75	0	19.28	19.37	19.31	19.00	19.02	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	19.92	19.96	20.04	19.74	19.66	20.80
10	QPSK	1	25	19.76	19.92	19.82	19.61	19.58	
10	QPSK	1	49	19.91	19.81	19.89	19.52	19.54	
10	QPSK	25	0	19.97	20.01	19.90	19.64	19.63	20.8
10	QPSK	25	12	19.78	19.84	19.88	19.66	19.59	
10	QPSK	25	25	19.96	19.91	20.01	19.77	19.37	
10	QPSK	50	0	19.67	19.89	20.00	19.61	19.56	
10	16QAM	1	0	19.79	19.92	19.85	19.61	19.71	20.8
10	16QAM	1	25	19.83	19.81	19.83	19.65	19.55	
10	16QAM	1	49	19.88	19.65	19.83	19.55	19.42	
10	16QAM	25	0	20.04	19.78	19.83	19.54	19.47	20.8
10	16QAM	25	12	19.78	19.88	19.83	19.67	19.71	
10	16QAM	25	25	19.90	19.79	19.80	19.45	19.54	
10	16QAM	50	0	19.81	19.80	19.84	19.57	19.72	
10	64QAM	1	0	19.83	19.85	19.98	19.46	19.41	20.8
10	64QAM	1	25	19.86	19.77	19.99	19.66	19.47	
10	64QAM	1	49	19.85	19.83	19.82	19.64	19.47	
10	64QAM	25	0	19.66	20.01	19.72	19.52	19.51	20.8
10	64QAM	25	12	19.97	19.81	19.94	19.65	19.52	
10	64QAM	25	25	19.89	19.77	20.00	19.65	19.60	
10	64QAM	50	0	19.79	19.77	19.72	19.70	19.60	
10	256QAM	1	0	19.41	19.42	19.25	18.98	19.06	20.1
10	256QAM	1	25	19.25	19.30	19.36	19.15	19.07	
10	256QAM	1	49	19.37	19.46	19.46	19.13	19.08	
10	256QAM	25	0	19.19	19.42	19.43	19.07	19.06	20.1
10	256QAM	25	12	19.25	19.43	19.43	19.08	18.91	
10	256QAM	25	25	19.39	19.49	19.28	18.98	18.95	
10	256QAM	50	0	19.32	19.45	19.33	19.14	18.92	
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	19.93	20.03	19.92	19.69	19.62	20.80
5	QPSK	1	12	19.79	19.86	19.79	19.53	19.60	
5	QPSK	1	24	19.88	19.88	19.95	19.56	19.47	
5	QPSK	12	0	19.85	19.85	19.99	19.72	19.53	20.8
5	QPSK	12	7	19.77	19.83	19.96	19.65	19.64	
5	QPSK	12	13	19.85	19.85	19.84	19.71	19.39	
5	QPSK	25	0	19.80	19.97	19.87	19.75	19.54	
5	16QAM	1	0	19.79	19.84	20.01	19.66	19.58	20.8
5	16QAM	1	12	19.88	19.73	19.74	19.61	19.55	
5	16QAM	1	24	19.86	19.67	19.91	19.58	19.41	
5	16QAM	12	0	19.85	19.81	19.79	19.61	19.42	20.8
5	16QAM	12	7	19.83	19.99	19.81	19.70	19.68	
5	16QAM	12	13	19.77	19.76	19.96	19.63	19.53	
5	16QAM	25	0	19.83	19.64	19.81	19.62	19.59	
5	64QAM	1	0	20.03	19.81	20.00	19.57	19.37	20.8
5	64QAM	1	12	19.93	19.77	19.82	19.67	19.57	
5	64QAM	1	24	19.73	19.95	19.92	19.63	19.51	
5	64QAM	12	0	19.85	19.84	19.72	19.56	19.59	20.8
5	64QAM	12	7	19.94	19.78	19.74	19.73	19.50	
5	64QAM	12	13	20.04	19.77	19.99	19.74	19.68	
5	64QAM	25	0	19.86	19.88	19.75	19.68	19.51	
5	256QAM	1	0	19.35	19.36	19.31	18.97	19.00	20.1
5	256QAM	1	12	19.34	19.28	19.21	19.03	19.00	
5	256QAM	1	24	19.36	19.39	19.34	19.13	18.99	
5	256QAM	12	0	19.28	19.47	19.54	19.08	18.87	20.1
5	256QAM	12	7	19.34	19.36	19.38	19.03	19.02	
5	256QAM	12	13	19.36	19.32	19.33	19.06	18.93	
5	256QAM	25	0	19.26	19.48	19.29	19.15	18.97	



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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	22.68	22.71	22.65	22.60	22.60	23
20	QPSK	1	49	22.63	22.64	22.59	22.53	22.55	
20	QPSK	1	99	22.65	22.69	22.64	22.59	22.58	
20	QPSK	50	0	22.67	22.68	22.65	22.61	22.59	23
20	QPSK	50	24	22.64	22.66	22.63	22.60	22.57	
20	QPSK	50	50	22.65	22.65	22.64	22.61	22.56	
20	QPSK	100	0	22.63	22.65	22.58	22.55	22.53	23
20	16QAM	1	0	22.29	22.34	22.31	22.28	22.23	
20	16QAM	1	49	22.22	22.27	22.21	22.20	22.15	
20	16QAM	1	99	22.22	22.32	22.32	22.23	22.14	23
20	16QAM	50	0	22.28	22.28	22.19	22.16	22.15	
20	16QAM	50	24	22.29	22.27	22.18	22.19	22.16	
20	16QAM	50	50	22.26	22.28	22.19	22.16	22.13	23
20	16QAM	100	0	22.29	22.28	22.26	22.20	22.17	
20	64QAM	1	0	22.10	22.07	22.12	22.10	22.01	
20	64QAM	1	49	22.14	22.04	22.05	21.98	21.97	23
20	64QAM	1	99	22.10	22.07	22.08	22.00	21.95	
20	64QAM	50	0	21.24	21.25	21.20	21.17	21.11	
20	64QAM	50	24	21.24	21.26	21.20	21.18	21.13	22.1
20	64QAM	50	50	21.24	21.25	21.19	21.13	21.10	
20	64QAM	100	0	21.25	21.26	21.20	21.16	21.14	
20	256QAM	1	0	19.44	19.27	19.31	19.33	19.29	20.1
20	256QAM	1	49	19.47	19.30	19.25	19.29	19.17	
20	256QAM	1	99	19.47	19.40	19.26	19.31	19.04	
20	256QAM	50	0	19.57	19.52	19.45	19.38	19.40	20.1
20	256QAM	50	24	19.51	19.47	19.41	19.41	19.39	
20	256QAM	50	50	19.51	19.51	19.42	19.43	19.34	
20	256QAM	100	0	19.50	19.53	19.51	19.48	19.46	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.55	22.53	22.48	22.47	22.53	23.00
15	QPSK	1	37	22.47	22.59	22.44	22.42	22.53	
15	QPSK	1	74	22.52	22.49	22.49	22.49	22.47	
15	QPSK	36	0	22.61	22.49	22.62	22.52	22.49	23
15	QPSK	36	20	22.61	22.47	22.52	22.40	22.41	
15	QPSK	36	39	22.49	22.54	22.62	22.58	22.54	
15	QPSK	75	0	22.55	22.57	22.49	22.42	22.40	23
15	16QAM	1	0	22.11	22.14	22.17	22.17	22.17	
15	16QAM	1	37	22.06	22.20	22.01	22.14	22.06	
15	16QAM	1	74	22.15	22.13	22.24	22.23	22.12	23
15	16QAM	36	0	22.28	22.25	22.19	21.97	22.10	
15	16QAM	36	20	22.16	22.27	22.05	22.16	22.15	
15	16QAM	36	39	22.24	22.26	22.14	22.07	22.05	23
15	16QAM	75	0	22.09	22.19	22.17	22.08	22.02	
15	64QAM	1	0	21.97	22.03	21.96	22.07	21.93	
15	64QAM	1	37	22.04	21.89	21.94	21.80	21.88	23
15	64QAM	1	74	22.03	22.05	21.88	21.93	21.80	
15	64QAM	36	0	21.06	21.14	21.02	21.01	20.98	
15	64QAM	36	20	21.09	21.09	21.20	21.04	20.94	22.1
15	64QAM	36	39	21.12	21.23	21.01	21.12	21.02	
15	64QAM	75	0	21.18	21.16	21.20	21.10	20.96	
15	256QAM	1	0	19.43	19.24	19.21	19.15	19.27	20.1
15	256QAM	1	37	19.44	19.26	19.18	19.15	19.06	
15	256QAM	1	74	19.36	19.24	19.15	19.24	18.96	
15	256QAM	36	0	19.55	19.49	19.37	19.30	19.27	20.1
15	256QAM	36	20	19.36	19.44	19.38	19.32	19.26	
15	256QAM	36	39	19.44	19.38	19.36	19.37	19.14	



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15	256QAM	75	0	19.44	19.37	19.45	19.37	19.33	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.52	22.51	22.65	22.40	22.54	23.00
10	QPSK	1	25	22.49	22.61	22.39	22.46	22.48	
10	QPSK	1	49	22.46	22.66	22.52	22.42	22.53	
10	QPSK	25	0	22.49	22.60	22.65	22.42	22.49	23
10	QPSK	25	12	22.49	22.46	22.61	22.40	22.55	
10	QPSK	25	25	22.51	22.57	22.60	22.56	22.37	
10	QPSK	50	0	22.63	22.65	22.46	22.42	22.40	
10	16QAM	1	0	22.24	22.20	22.14	22.10	22.06	23
10	16QAM	1	25	22.08	22.16	22.07	22.08	22.08	
10	16QAM	1	49	22.04	22.23	22.23	22.06	22.13	
10	16QAM	25	0	22.22	22.16	22.18	22.14	21.96	23
10	16QAM	25	12	22.25	22.20	22.07	22.03	22.09	
10	16QAM	25	25	22.22	22.08	22.19	22.02	22.01	
10	16QAM	50	0	22.20	22.21	22.21	22.08	22.14	
10	64QAM	1	0	22.00	21.91	21.92	22.01	21.89	23
10	64QAM	1	25	21.94	21.94	21.96	21.98	21.77	
10	64QAM	1	49	22.01	22.06	21.92	21.83	21.86	
10	64QAM	25	0	21.22	21.09	21.06	21.14	21.05	22.1
10	64QAM	25	12	21.19	21.25	21.04	21.11	20.97	
10	64QAM	25	25	21.20	21.19	21.17	21.10	21.06	
10	64QAM	50	0	21.19	21.15	21.09	21.15	20.98	
10	256QAM	1	0	19.30	19.08	19.27	19.17	19.27	20.1
10	256QAM	1	25	19.27	19.10	19.22	19.16	19.10	
10	256QAM	1	49	19.32	19.38	19.26	19.17	19.01	
10	256QAM	25	0	19.47	19.43	19.39	19.28	19.23	20.1
10	256QAM	25	12	19.49	19.28	19.29	19.25	19.37	
10	256QAM	25	25	19.42	19.49	19.42	19.24	19.18	
10	256QAM	50	0	19.50	19.44	19.37	19.33	19.45	
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	22.62	22.56	22.48	22.56	22.59	23.00
5	QPSK	1	12	22.60	22.64	22.53	22.36	22.38	
5	QPSK	1	24	22.52	22.61	22.53	22.52	22.41	
5	QPSK	12	0	22.62	22.62	22.51	22.41	22.47	23
5	QPSK	12	7	22.49	22.52	22.57	22.54	22.39	
5	QPSK	12	13	22.51	22.46	22.46	22.54	22.48	
5	QPSK	25	0	22.61	22.53	22.44	22.42	22.49	
5	16QAM	1	0	22.24	22.18	22.24	22.10	22.12	23
5	16QAM	1	12	22.14	22.07	22.14	22.01	21.95	
5	16QAM	1	24	22.03	22.21	22.19	22.03	22.08	
5	16QAM	12	0	22.20	22.15	22.12	22.13	21.98	23
5	16QAM	12	7	22.19	22.21	21.98	22.19	22.09	
5	16QAM	12	13	22.19	22.08	22.17	22.16	21.93	
5	16QAM	25	0	22.22	22.11	22.25	22.15	22.04	
5	64QAM	1	0	22.01	21.92	21.96	21.91	21.83	23
5	64QAM	1	12	22.10	21.86	21.96	21.95	21.77	
5	64QAM	1	24	21.99	22.06	22.01	21.82	21.86	
5	64QAM	12	0	21.15	21.06	21.15	21.10	20.91	22.1
5	64QAM	12	7	21.15	21.18	21.00	21.14	21.09	
5	64QAM	12	13	21.15	21.12	21.18	21.04	21.01	
5	64QAM	25	0	21.12	21.24	21.20	21.05	21.07	
5	256QAM	1	0	19.37	19.09	19.30	19.14	19.25	20.1
5	256QAM	1	12	19.27	19.19	19.14	19.28	19.17	
5	256QAM	1	24	19.32	19.29	19.18	19.20	19.02	
5	256QAM	12	0	19.38	19.39	19.38	19.34	19.30	20.1
5	256QAM	12	7	19.33	19.45	19.30	19.30	19.22	
5	256QAM	12	13	19.48	19.46	19.42	19.23	19.18	
5	256QAM	25	0	19.34	19.50	19.39	19.41	19.37	



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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	22.81	22.63	22.88	22.68	22.64	23.5
20	QPSK	1	49	22.67	22.51	22.87	22.65	22.58	
20	QPSK	1	99	22.66	22.62	22.76	22.64	22.59	
20	QPSK	50	0	22.66	22.61	22.83	22.61	22.64	23.5
20	QPSK	50	24	22.60	22.56	22.81	22.60	22.52	
20	QPSK	50	50	22.61	22.50	22.65	22.61	22.61	
20	QPSK	100	0	22.63	22.57	22.72	22.54	22.53	23.5
20	16QAM	1	0	22.18	22.27	22.34	22.28	22.23	
20	16QAM	1	49	22.28	22.29	22.22	22.10	22.28	
20	16QAM	1	99	22.16	22.26	22.20	22.28	22.20	23.1
20	16QAM	50	0	21.80	21.72	21.99	21.88	21.84	
20	16QAM	50	24	21.63	21.65	21.65	21.61	21.68	
20	16QAM	50	50	21.72	21.57	21.74	21.63	21.80	23.1
20	16QAM	100	0	21.71	21.85	21.82	21.87	21.81	
20	64QAM	1	0	21.73	21.75	22.15	21.61	21.58	
20	64QAM	1	49	21.75	21.61	22.01	21.83	21.71	22.1
20	64QAM	1	99	21.88	21.49	21.65	21.68	21.79	
20	64QAM	50	0	20.81	20.52	20.85	20.49	20.58	
20	64QAM	50	24	20.87	20.62	21.00	20.58	20.62	20.1
20	64QAM	50	50	20.88	20.57	20.91	20.47	20.35	
20	64QAM	100	0	20.76	20.82	20.75	20.62	20.50	
20	256QAM	1	0	19.01	19.04	19.01	19.14	18.81	20.1
20	256QAM	1	49	18.79	18.71	19.14	19.05	19.02	
20	256QAM	1	99	19.18	18.83	18.97	18.81	18.74	
20	256QAM	50	0	19.04	18.89	19.44	18.81	18.75	20.1
20	256QAM	50	24	18.96	19.10	19.20	19.00	18.86	
20	256QAM	50	50	18.78	18.75	19.19	18.93	18.77	
20	256QAM	100	0	18.87	18.94	19.27	18.61	18.70	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.76	22.51	22.69	22.51	22.51	23.50
15	QPSK	1	37	22.65	22.35	22.86	22.50	22.55	
15	QPSK	1	74	22.56	22.62	22.56	22.54	22.46	
15	QPSK	36	0	22.50	22.51	22.69	22.62	22.45	23.5
15	QPSK	36	20	22.70	22.48	22.71	22.44	22.46	
15	QPSK	36	39	22.59	22.50	22.52	22.55	22.41	
15	QPSK	75	0	22.47	22.39	22.61	22.60	22.47	23.5
15	16QAM	1	0	22.14	22.20	22.22	22.20	22.16	
15	16QAM	1	37	22.12	22.23	22.27	22.14	22.13	
15	16QAM	1	74	22.23	22.24	22.25	22.12	22.27	23.1
15	16QAM	36	0	21.65	21.58	21.97	21.56	21.69	
15	16QAM	36	20	21.66	21.42	21.89	21.55	21.51	
15	16QAM	36	39	21.54	21.65	21.70	21.70	21.46	23.1
15	16QAM	75	0	21.85	21.71	21.71	21.58	21.63	
15	64QAM	1	0	21.85	21.62	21.77	21.60	21.79	
15	64QAM	1	37	21.68	21.30	21.82	21.55	21.51	22.1
15	64QAM	1	74	21.53	21.37	21.54	21.58	21.72	
15	64QAM	36	0	20.83	20.81	20.79	20.50	20.45	
15	64QAM	36	20	20.49	20.47	20.49	20.43	20.38	20.1
15	64QAM	36	39	20.67	20.49	20.59	20.40	20.32	
15	64QAM	75	0	20.84	20.47	20.95	20.63	20.31	
15	256QAM	1	0	18.98	18.85	19.08	19.01	18.92	20.1
15	256QAM	1	37	19.03	18.75	19.04	18.64	18.94	
15	256QAM	1	74	18.98	18.72	19.03	18.84	19.02	
15	256QAM	36	0	19.19	19.07	19.05	18.76	18.49	20.1
15	256QAM	36	20	18.91	18.74	18.76	18.66	18.88	
15	256QAM	36	39	18.88	18.69	18.98	18.64	18.57	



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15	256QAM	75	0	19.08	18.89	18.90	18.70	18.42	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.78	22.62	22.73	22.66	22.57	23.50
10	QPSK	1	25	22.67	22.56	22.80	22.58	22.55	
10	QPSK	1	49	22.62	22.42	22.60	22.57	22.38	
10	QPSK	25	0	22.54	22.56	22.74	22.51	22.51	23.5
10	QPSK	25	12	22.68	22.40	22.78	22.52	22.42	
10	QPSK	25	25	22.47	22.51	22.62	22.35	22.47	
10	QPSK	50	0	22.65	22.45	22.61	22.39	22.41	23.5
10	16QAM	1	0	22.15	22.11	22.20	22.25	22.25	
10	16QAM	1	25	22.22	22.14	22.16	22.25	22.17	
10	16QAM	1	49	22.28	22.22	22.10	22.20	22.19	23.1
10	16QAM	25	0	21.70	21.53	22.00	21.73	21.54	
10	16QAM	25	12	21.73	21.53	21.84	21.49	21.41	
10	16QAM	25	25	21.64	21.30	21.81	21.38	21.66	23.1
10	16QAM	50	0	21.76	21.75	21.51	21.55	21.39	
10	64QAM	1	0	21.68	21.49	21.91	21.43	21.51	
10	64QAM	1	25	21.50	21.54	21.49	21.56	21.62	23.1
10	64QAM	1	49	21.67	21.67	21.53	21.35	21.69	
10	64QAM	25	0	20.75	20.42	21.07	20.47	20.53	
10	64QAM	25	12	20.57	20.71	20.76	20.22	20.35	22.1
10	64QAM	25	25	20.50	20.60	20.97	20.44	20.34	
10	64QAM	50	0	20.83	20.56	20.71	20.50	20.15	
10	256QAM	1	0	18.99	18.71	18.97	19.06	18.74	20.1
10	256QAM	1	25	18.88	18.81	19.01	18.63	18.74	
10	256QAM	1	49	19.03	19.03	18.93	18.64	18.54	
10	256QAM	25	0	19.06	19.01	19.03	18.58	18.56	20.1
10	256QAM	25	12	19.18	18.62	19.05	18.53	18.50	
10	256QAM	25	25	18.83	18.86	19.01	18.77	18.46	
10	256QAM	50	0	18.87	18.93	19.07	18.76	18.49	
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	22.67	22.34	22.79	22.65	22.64	23.50
5	QPSK	1	12	22.60	22.44	22.81	22.43	22.56	
5	QPSK	1	24	22.55	22.45	22.63	22.54	22.49	
5	QPSK	12	0	22.65	22.49	22.62	22.58	22.54	23.5
5	QPSK	12	7	22.74	22.44	22.72	22.47	22.36	
5	QPSK	12	13	22.58	22.39	22.52	22.52	22.42	
5	QPSK	25	0	22.57	22.38	22.68	22.42	22.53	23.5
5	16QAM	1	0	22.18	22.13	22.12	22.29	22.11	
5	16QAM	1	12	22.15	22.12	22.28	22.29	22.11	
5	16QAM	1	24	22.12	22.24	22.23	22.28	22.23	23.1
5	16QAM	12	0	21.66	21.37	21.69	21.61	21.79	
5	16QAM	12	7	21.61	21.63	21.74	21.44	21.71	
5	16QAM	12	13	21.67	21.75	21.72	21.62	21.43	23.1
5	16QAM	25	0	21.96	21.85	21.45	21.72	21.61	
5	64QAM	1	0	21.86	21.50	21.76	21.70	21.67	
5	64QAM	1	12	21.42	21.50	21.59	21.57	21.56	23.1
5	64QAM	1	24	21.43	21.49	21.56	21.43	21.53	
5	64QAM	12	0	20.95	20.67	21.00	20.50	20.53	
5	64QAM	12	7	20.85	20.50	20.94	20.39	20.21	22.1
5	64QAM	12	13	20.71	20.64	20.65	20.57	20.14	
5	64QAM	25	0	20.58	20.76	20.87	20.26	20.36	
5	256QAM	1	0	18.95	19.05	18.98	18.84	18.91	20.1
5	256QAM	1	12	18.79	18.64	19.10	18.71	18.70	
5	256QAM	1	24	18.72	18.83	19.09	18.50	18.95	
5	256QAM	12	0	18.83	18.92	19.20	18.86	18.86	20.1
5	256QAM	12	7	19.08	18.67	19.16	18.74	18.96	
5	256QAM	12	13	18.67	18.64	18.95	18.79	18.49	
5	256QAM	25	0	19.16	18.81	19.06	18.71	18.37	



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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	20.13	20.14	20.17	20.13	20.02	21.1
20	QPSK	1	49	20.12	20.13	20.11	20.10	19.97	
20	QPSK	1	99	20.12	20.11	20.13	20.09	19.92	
20	QPSK	50	0	20.09	20.13	20.15	20.13	19.97	21.1
20	QPSK	50	24	20.09	20.13	20.12	20.09	19.94	
20	QPSK	50	50	20.06	20.12	20.13	20.09	19.89	
20	QPSK	100	0	20.12	20.13	20.14	20.08	19.95	21.1
20	16QAM	1	0	19.92	20.00	19.93	20.10	19.76	
20	16QAM	1	49	19.86	19.99	19.93	20.05	19.70	
20	16QAM	1	99	19.87	19.93	19.97	20.05	19.70	21.1
20	16QAM	50	0	20.05	20.14	20.16	20.09	19.96	
20	16QAM	50	24	20.08	20.16	20.15	20.12	19.90	
20	16QAM	50	50	20.09	20.16	20.10	20.16	19.89	21.1
20	16QAM	100	0	20.11	20.11	20.10	20.14	19.97	
20	64QAM	1	0	19.96	19.88	19.96	20.13	19.94	
20	64QAM	1	49	19.82	19.92	20.03	20.02	19.87	21.1
20	64QAM	1	99	19.90	19.85	20.04	20.06	19.78	
20	64QAM	50	0	20.09	20.13	20.11	20.11	19.94	
20	64QAM	50	24	20.08	20.14	20.15	20.16	19.94	21.1
20	64QAM	50	50	20.07	20.14	20.11	20.16	19.90	
20	64QAM	100	0	20.10	20.14	20.09	20.14	19.99	
20	256QAM	1	0	19.82	20.08	20.01	20.07	19.84	20.1
20	256QAM	1	49	19.79	20.00	20.08	20.08	19.68	
20	256QAM	1	99	19.90	19.87	20.02	19.95	19.88	
20	256QAM	50	0	19.99	20.01	20.00	19.97	19.83	20.1
20	256QAM	50	24	20.01	20.05	20.01	20.04	19.70	
20	256QAM	50	50	20.00	20.10	20.05	19.94	19.95	
20	256QAM	100	0	19.95	20.02	19.92	19.94	19.84	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	19.96	20.03	20.00	19.94	19.82	21.10
15	QPSK	1	37	20.10	19.97	19.98	20.06	19.93	
15	QPSK	1	74	20.06	20.08	19.97	20.06	19.80	
15	QPSK	36	0	19.96	20.10	20.07	20.13	19.92	21.1
15	QPSK	36	20	20.04	19.96	20.08	19.92	19.82	
15	QPSK	36	39	20.02	20.06	19.95	19.99	19.80	
15	QPSK	75	0	20.04	20.10	20.11	20.07	19.83	21.1
15	16QAM	1	0	19.73	19.98	19.75	20.05	19.72	
15	16QAM	1	37	19.83	19.90	19.78	19.93	19.53	
15	16QAM	1	74	19.74	19.89	19.95	19.98	19.50	21.1
15	16QAM	36	0	19.99	20.11	20.03	19.94	19.80	
15	16QAM	36	20	20.03	20.16	20.00	20.12	19.78	
15	16QAM	36	39	19.92	20.15	20.10	20.01	19.88	21.1
15	16QAM	75	0	20.06	20.00	19.94	20.11	19.84	
15	64QAM	1	0	19.91	19.69	19.89	20.12	19.94	
15	64QAM	1	37	19.71	19.83	19.83	20.02	19.69	21.1
15	64QAM	1	74	19.76	19.77	19.91	20.03	19.58	
15	64QAM	36	0	19.95	20.07	19.97	20.08	19.88	
15	64QAM	36	20	19.98	20.11	20.05	20.10	19.75	21.1
15	64QAM	36	39	19.88	20.10	19.95	20.15	19.70	
15	64QAM	75	0	20.08	19.99	19.94	20.13	19.87	
15	256QAM	1	0	19.73	20.08	19.93	20.06	19.78	20.1
15	256QAM	1	37	19.74	19.83	20.01	19.95	19.60	
15	256QAM	1	74	19.72	19.74	20.02	19.84	19.79	
15	256QAM	36	0	19.84	19.94	19.99	19.80	19.68	20.1
15	256QAM	36	20	19.97	20.03	19.95	19.94	19.59	
15	256QAM	36	39	20.00	20.06	19.90	19.78	19.95	



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15	256QAM	75	0	19.85	19.90	19.75	19.84	19.75	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.04	19.95	20.16	20.05	20.02	21.10
10	QPSK	1	25	19.96	20.13	20.03	20.09	19.79	
10	QPSK	1	49	20.04	20.07	20.10	20.06	19.76	
10	QPSK	25	0	20.06	19.98	20.00	20.07	19.85	21.1
10	QPSK	25	12	20.04	20.00	20.01	19.89	19.94	
10	QPSK	25	25	20.06	19.92	20.03	19.97	19.76	
10	QPSK	50	0	20.08	19.96	20.04	20.01	19.90	
10	16QAM	1	0	19.74	19.98	19.89	19.93	19.74	21.1
10	16QAM	1	25	19.67	19.81	19.79	19.93	19.58	
10	16QAM	1	49	19.87	19.93	19.90	19.97	19.64	
10	16QAM	25	0	20.02	20.10	20.00	20.06	19.86	21.1
10	16QAM	25	12	19.88	20.15	20.14	20.02	19.87	
10	16QAM	25	25	19.93	19.99	20.02	20.02	19.87	
10	16QAM	50	0	20.06	20.03	20.01	20.00	19.81	
10	64QAM	1	0	19.91	19.82	19.82	20.03	19.74	21.1
10	64QAM	1	25	19.73	19.78	19.90	20.02	19.79	
10	64QAM	1	49	19.73	19.69	20.04	20.01	19.67	
10	64QAM	25	0	19.98	20.04	19.98	20.11	19.90	21.1
10	64QAM	25	12	20.07	20.11	19.96	20.02	19.92	
10	64QAM	25	25	20.07	19.99	20.08	20.08	19.73	
10	64QAM	50	0	19.95	19.98	20.07	20.01	19.82	
10	256QAM	1	0	19.62	20.03	19.96	19.95	19.71	20.1
10	256QAM	1	25	19.70	19.89	20.06	19.94	19.53	
10	256QAM	1	49	19.89	19.75	19.97	19.87	19.88	
10	256QAM	25	0	19.98	19.98	19.82	19.79	19.68	20.1
10	256QAM	25	12	19.95	19.85	19.93	20.02	19.57	
10	256QAM	25	25	19.99	20.00	19.92	19.90	19.82	
10	256QAM	50	0	19.92	19.91	19.82	19.88	19.67	
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	19.98	19.95	19.98	20.08	19.98	21.10
5	QPSK	1	12	19.99	20.01	20.10	20.03	19.78	
5	QPSK	1	24	19.97	20.03	19.94	19.95	19.88	
5	QPSK	12	0	20.03	20.00	19.98	20.01	19.79	21.1
5	QPSK	12	7	20.04	20.09	20.01	20.06	19.87	
5	QPSK	12	13	20.02	19.99	20.00	20.09	19.70	
5	QPSK	25	0	20.06	20.04	19.95	19.93	19.79	
5	16QAM	1	0	19.77	19.86	19.74	19.95	19.63	21.1
5	16QAM	1	12	19.67	19.88	19.75	19.99	19.50	
5	16QAM	1	24	19.83	19.90	19.77	20.03	19.58	
5	16QAM	12	0	19.87	20.11	20.05	20.09	19.81	21.1
5	16QAM	12	7	19.92	20.09	20.15	19.93	19.76	
5	16QAM	12	13	20.09	19.99	20.06	20.00	19.88	
5	16QAM	25	0	19.94	20.01	19.96	19.95	19.90	
5	64QAM	1	0	19.96	19.79	19.93	19.97	19.83	21.1
5	64QAM	1	12	19.81	19.84	19.84	19.94	19.76	
5	64QAM	1	24	19.89	19.80	20.02	20.03	19.70	
5	64QAM	12	0	19.93	20.01	20.06	19.98	19.92	21.1
5	64QAM	12	7	20.03	20.04	20.09	20.08	19.83	
5	64QAM	12	13	19.87	19.99	19.99	20.10	19.76	
5	64QAM	25	0	20.06	20.02	19.95	20.09	19.93	
5	256QAM	1	0	19.63	20.03	19.86	19.90	19.74	20.1
5	256QAM	1	12	19.69	19.83	20.06	20.07	19.57	
5	256QAM	1	24	19.73	19.81	19.95	19.94	19.80	
5	256QAM	12	0	19.82	19.98	19.97	19.81	19.72	20.1
5	256QAM	12	7	19.99	19.90	19.86	19.94	19.62	
5	256QAM	12	13	19.95	19.91	19.91	19.87	19.78	
5	256QAM	25	0	19.77	19.92	19.86	19.77	19.79	



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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	22.26	22.31	22.30	22.14	21.89	23.6
20	QPSK	1	49	22.19	22.21	22.19	22.02	21.81	
20	QPSK	1	99	22.22	22.28	22.26	22.03	21.85	
20	QPSK	50	0	22.23	22.30	22.29	22.05	21.83	23.6
20	QPSK	50	24	22.21	22.19	22.25	22.03	21.80	
20	QPSK	50	50	22.22	22.20	22.25	22.02	21.81	
20	QPSK	100	0	22.22	22.29	22.28	22.04	21.80	23.6
20	16QAM	1	0	22.05	21.92	22.00	21.94	21.92	
20	16QAM	1	49	21.98	21.79	21.88	21.77	21.85	
20	16QAM	1	99	22.00	21.88	21.94	21.75	21.89	23.1
20	16QAM	50	0	21.91	21.89	21.95	21.79	21.52	
20	16QAM	50	24	21.95	21.91	21.91	21.75	21.53	
20	16QAM	50	50	21.93	21.93	21.94	21.73	21.51	23.1
20	16QAM	100	0	21.96	22.01	21.99	21.76	21.58	
20	64QAM	1	0	21.89	21.84	21.83	21.65	21.38	
20	64QAM	1	49	21.78	21.73	21.74	21.52	21.30	22.1
20	64QAM	1	99	21.80	21.75	21.71	21.56	21.34	
20	64QAM	50	0	21.30	21.36	21.40	21.18	20.83	
20	64QAM	50	24	21.35	21.27	21.46	21.18	20.95	20.1
20	64QAM	50	50	21.28	21.25	21.31	21.17	20.89	
20	64QAM	100	0	21.37	21.33	21.33	21.27	20.95	
20	256QAM	1	0	19.47	19.43	19.57	19.23	19.02	20.1
20	256QAM	1	49	19.39	19.37	19.38	19.12	18.86	
20	256QAM	1	99	19.54	19.50	19.44	19.11	18.89	
20	256QAM	50	0	19.58	19.47	19.64	19.39	19.04	20.1
20	256QAM	50	24	19.54	19.57	19.61	19.48	19.30	
20	256QAM	50	50	19.63	19.62	19.61	19.36	19.26	
20	256QAM	100	0	19.68	19.62	19.54	19.44	19.17	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.24	22.19	22.22	22.02	21.74	23.60
15	QPSK	1	37	22.13	22.06	22.00	22.00	21.63	
15	QPSK	1	74	22.04	22.19	22.06	21.88	21.67	
15	QPSK	36	0	22.15	22.17	22.26	21.89	21.77	23.6
15	QPSK	36	20	22.07	22.14	22.12	21.88	21.73	
15	QPSK	36	39	22.21	22.17	22.23	22.00	21.73	
15	QPSK	75	0	22.22	22.06	22.26	21.86	21.65	23.6
15	16QAM	1	0	21.99	21.80	21.94	21.75	21.83	
15	16QAM	1	37	21.96	21.80	21.80	21.78	21.65	
15	16QAM	1	74	21.81	21.81	21.93	21.71	21.73	23.1
15	16QAM	36	0	21.87	21.88	21.76	21.59	21.50	
15	16QAM	36	20	21.77	21.91	21.90	21.75	21.53	
15	16QAM	36	39	21.89	21.88	21.92	21.60	21.51	23.1
15	16QAM	75	0	21.78	21.81	21.92	21.64	21.42	
15	64QAM	1	0	21.75	21.72	21.68	21.55	21.27	
15	64QAM	1	37	21.65	21.71	21.66	21.45	21.13	22.1
15	64QAM	1	74	21.76	21.71	21.57	21.38	21.20	
15	64QAM	36	0	21.28	21.20	21.20	21.09	20.83	
15	64QAM	36	20	21.22	21.22	21.23	21.24	20.76	20.1
15	64QAM	36	39	21.14	21.16	21.19	21.15	20.93	
15	64QAM	75	0	21.34	21.34	21.38	21.05	20.75	
15	256QAM	1	0	19.32	19.35	19.31	19.31	18.88	20.1
15	256QAM	1	37	19.27	19.22	19.24	19.14	18.88	
15	256QAM	1	74	19.47	19.38	19.24	18.87	18.84	
15	256QAM	36	0	19.53	19.25	19.49	19.20	18.89	20.1
15	256QAM	36	20	19.33	19.64	19.48	19.26	19.06	
15	256QAM	36	39	19.55	19.35	19.31	19.23	19.15	



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15	256QAM	75	0	19.64	19.41	19.61	19.36	19.23	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.25	22.12	22.22	22.01	21.83	23.60
10	QPSK	1	25	21.99	22.06	21.99	21.91	21.75	
10	QPSK	1	49	22.08	22.11	22.19	22.00	21.65	
10	QPSK	25	0	22.21	22.15	22.25	22.03	21.63	23.6
10	QPSK	25	12	22.20	22.04	22.05	21.89	21.79	
10	QPSK	25	25	22.12	22.14	22.07	21.93	21.73	
10	QPSK	50	0	22.13	22.09	22.13	21.98	21.67	
10	16QAM	1	0	22.01	21.74	21.81	21.80	21.82	23.6
10	16QAM	1	25	21.78	21.74	21.76	21.72	21.85	
10	16QAM	1	49	21.89	21.78	21.79	21.70	21.74	
10	16QAM	25	0	21.75	21.86	21.86	21.59	21.46	23.1
10	16QAM	25	12	21.77	21.89	21.86	21.62	21.46	
10	16QAM	25	25	21.80	21.73	21.82	21.56	21.33	
10	16QAM	50	0	21.86	22.01	21.97	21.56	21.49	
10	64QAM	1	0	21.76	21.70	21.81	21.48	21.32	23.1
10	64QAM	1	25	21.77	21.66	21.71	21.45	21.26	
10	64QAM	1	49	21.69	21.58	21.61	21.40	21.20	
10	64QAM	25	0	21.31	21.24	21.22	21.08	20.73	22.1
10	64QAM	25	12	21.10	21.28	21.24	21.11	20.76	
10	64QAM	25	25	21.25	21.32	21.20	21.08	20.82	
10	64QAM	50	0	21.12	21.25	21.24	21.02	20.87	
10	256QAM	1	0	19.26	19.51	19.34	19.30	19.00	20.1
10	256QAM	1	25	19.24	19.46	19.36	18.98	18.98	
10	256QAM	1	49	19.46	19.34	19.15	19.01	18.92	
10	256QAM	25	0	19.57	19.39	19.44	19.30	18.93	20.1
10	256QAM	25	12	19.46	19.62	19.44	19.30	19.18	
10	256QAM	25	25	19.42	19.31	19.43	19.27	19.05	
10	256QAM	50	0	19.35	19.43	19.45	19.25	19.06	
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	22.22	22.14	22.28	22.13	21.83	23.60
5	QPSK	1	12	22.15	22.05	22.03	22.01	21.73	
5	QPSK	1	24	22.08	22.23	22.23	21.91	21.77	
5	QPSK	12	0	22.08	22.24	22.19	21.89	21.70	23.6
5	QPSK	12	7	22.21	22.16	22.22	21.97	21.67	
5	QPSK	12	13	22.15	22.16	22.06	21.93	21.80	
5	QPSK	25	0	22.15	22.16	22.10	21.96	21.77	
5	16QAM	1	0	21.93	21.75	21.98	21.86	21.87	23.6
5	16QAM	1	12	21.81	21.77	21.86	21.83	21.85	
5	16QAM	1	24	21.87	21.73	21.81	21.80	21.85	
5	16QAM	12	0	21.76	21.73	21.75	21.63	21.40	23.1
5	16QAM	12	7	21.80	21.74	21.80	21.66	21.43	
5	16QAM	12	13	21.78	21.88	21.85	21.65	21.44	
5	16QAM	25	0	21.86	21.94	21.98	21.57	21.55	
5	64QAM	1	0	21.87	21.74	21.66	21.48	21.24	23.1
5	64QAM	1	12	21.71	21.64	21.70	21.42	21.14	
5	64QAM	1	24	21.77	21.63	21.64	21.37	21.34	
5	64QAM	12	0	21.32	21.32	21.11	21.10	20.82	22.1
5	64QAM	12	7	21.26	21.16	21.46	21.15	20.88	
5	64QAM	12	13	21.26	21.26	21.34	21.09	20.92	
5	64QAM	25	0	21.20	21.24	21.36	21.09	20.86	
5	256QAM	1	0	19.44	19.30	19.41	19.11	18.89	20.1
5	256QAM	1	12	19.41	19.38	19.30	18.97	18.99	
5	256QAM	1	24	19.27	19.14	19.26	19.04	18.85	
5	256QAM	12	0	19.53	19.33	19.63	19.38	19.05	20.1
5	256QAM	12	7	19.38	19.61	19.60	19.30	19.10	
5	256QAM	12	13	19.61	19.43	19.44	19.32	19.06	
5	256QAM	25	0	19.40	19.55	19.66	19.29	18.98	



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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	22.68	22.71	22.65	22.60	22.60	23.8
20	QPSK	1	49	22.63	22.64	22.59	22.53	22.55	
20	QPSK	1	99	22.65	22.69	22.64	22.59	22.58	
20	QPSK	50	0	22.67	22.68	22.65	22.61	22.59	23.8
20	QPSK	50	24	22.64	22.66	22.63	22.60	22.57	
20	QPSK	50	50	22.65	22.65	22.64	22.61	22.56	
20	QPSK	100	0	22.63	22.65	22.58	22.55	22.53	23.8
20	16QAM	1	0	22.29	22.34	22.31	22.28	22.23	
20	16QAM	1	49	22.22	22.27	22.21	22.20	22.15	
20	16QAM	1	99	22.22	22.32	22.32	22.23	22.14	23.1
20	16QAM	50	0	22.28	22.28	22.19	22.16	22.15	
20	16QAM	50	24	22.29	22.27	22.18	22.19	22.16	
20	16QAM	50	50	22.26	22.28	22.19	22.16	22.13	23.1
20	16QAM	100	0	22.29	22.28	22.26	22.20	22.17	
20	64QAM	1	0	22.10	22.07	22.12	22.10	22.01	
20	64QAM	1	49	22.14	22.04	22.05	21.98	21.97	22.1
20	64QAM	1	99	22.10	22.07	22.08	22.00	21.95	
20	64QAM	50	0	21.24	21.25	21.20	21.17	21.11	
20	64QAM	50	24	21.24	21.26	21.20	21.18	21.13	20.1
20	64QAM	50	50	21.24	21.25	21.19	21.13	21.10	
20	64QAM	100	0	21.25	21.26	21.20	21.16	21.14	
20	256QAM	1	0	19.44	19.27	19.31	19.33	19.29	20.1
20	256QAM	1	49	19.47	19.30	19.25	19.29	19.17	
20	256QAM	1	99	19.47	19.40	19.26	19.31	19.04	
20	256QAM	50	0	19.57	19.52	19.45	19.38	19.40	20.1
20	256QAM	50	24	19.51	19.47	19.41	19.41	19.39	
20	256QAM	50	50	19.51	19.51	19.42	19.43	19.34	
20	256QAM	100	0	19.50	19.53	19.51	19.48	19.46	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.55	22.53	22.48	22.47	22.53	23.80
15	QPSK	1	37	22.47	22.59	22.44	22.42	22.53	
15	QPSK	1	74	22.52	22.49	22.49	22.49	22.47	
15	QPSK	36	0	22.61	22.49	22.62	22.52	22.49	23.8
15	QPSK	36	20	22.61	22.47	22.52	22.40	22.41	
15	QPSK	36	39	22.49	22.54	22.62	22.58	22.54	
15	QPSK	75	0	22.55	22.57	22.49	22.42	22.40	23.8
15	16QAM	1	0	22.11	22.14	22.17	22.17	22.17	
15	16QAM	1	37	22.06	22.20	22.01	22.14	22.06	
15	16QAM	1	74	22.15	22.13	22.24	22.23	22.12	23.1
15	16QAM	36	0	22.28	22.25	22.19	21.97	22.10	
15	16QAM	36	20	22.16	22.27	22.05	22.16	22.15	
15	16QAM	36	39	22.24	22.26	22.14	22.07	22.05	23.1
15	16QAM	75	0	22.09	22.19	22.17	22.08	22.02	
15	64QAM	1	0	21.97	22.03	21.96	22.07	21.93	
15	64QAM	1	37	22.04	21.89	21.94	21.80	21.88	23.1
15	64QAM	1	74	22.03	22.05	21.88	21.93	21.80	
15	64QAM	36	0	21.06	21.14	21.02	21.01	20.98	
15	64QAM	36	20	21.09	21.09	21.20	21.04	20.94	22.1
15	64QAM	36	39	21.12	21.23	21.01	21.12	21.02	
15	64QAM	75	0	21.18	21.16	21.20	21.10	20.96	
15	256QAM	1	0	19.43	19.24	19.21	19.15	19.27	20.1
15	256QAM	1	37	19.44	19.26	19.18	19.15	19.06	
15	256QAM	1	74	19.36	19.24	19.15	19.24	18.96	
15	256QAM	36	0	19.55	19.49	19.37	19.30	19.27	20.1
15	256QAM	36	20	19.36	19.44	19.38	19.32	19.26	
15	256QAM	36	39	19.44	19.38	19.36	19.37	19.14	



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15	256QAM	75	0	19.44	19.37	19.45	19.37	19.33	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.52	22.51	22.65	22.40	22.54	23.80
10	QPSK	1	25	22.49	22.61	22.39	22.46	22.48	
10	QPSK	1	49	22.46	22.66	22.52	22.42	22.53	
10	QPSK	25	0	22.49	22.60	22.65	22.42	22.49	23.8
10	QPSK	25	12	22.49	22.46	22.61	22.40	22.55	
10	QPSK	25	25	22.51	22.57	22.60	22.56	22.37	
10	QPSK	50	0	22.63	22.65	22.46	22.42	22.40	
10	16QAM	1	0	22.24	22.20	22.14	22.10	22.06	23.8
10	16QAM	1	25	22.08	22.16	22.07	22.08	22.08	
10	16QAM	1	49	22.04	22.23	22.23	22.06	22.13	
10	16QAM	25	0	22.22	22.16	22.18	22.14	21.96	23.1
10	16QAM	25	12	22.25	22.20	22.07	22.03	22.09	
10	16QAM	25	25	22.22	22.08	22.19	22.02	22.01	
10	16QAM	50	0	22.20	22.21	22.21	22.08	22.14	
10	64QAM	1	0	22.00	21.91	21.92	22.01	21.89	23.1
10	64QAM	1	25	21.94	21.94	21.96	21.98	21.77	
10	64QAM	1	49	22.01	22.06	21.92	21.83	21.86	
10	64QAM	25	0	21.22	21.09	21.06	21.14	21.05	22.1
10	64QAM	25	12	21.19	21.25	21.04	21.11	20.97	
10	64QAM	25	25	21.20	21.19	21.17	21.10	21.06	
10	64QAM	50	0	21.19	21.15	21.09	21.15	20.98	
10	256QAM	1	0	19.30	19.08	19.27	19.17	19.27	20.1
10	256QAM	1	25	19.27	19.10	19.22	19.16	19.10	
10	256QAM	1	49	19.32	19.38	19.26	19.17	19.01	
10	256QAM	25	0	19.47	19.43	19.39	19.28	19.23	20.1
10	256QAM	25	12	19.49	19.28	19.29	19.25	19.37	
10	256QAM	25	25	19.42	19.49	19.42	19.24	19.18	
10	256QAM	50	0	19.50	19.44	19.37	19.33	19.45	
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	22.62	22.56	22.48	22.56	22.59	23.80
5	QPSK	1	12	22.60	22.64	22.53	22.36	22.38	
5	QPSK	1	24	22.52	22.61	22.53	22.52	22.41	
5	QPSK	12	0	22.62	22.62	22.51	22.41	22.47	23.8
5	QPSK	12	7	22.49	22.52	22.57	22.54	22.39	
5	QPSK	12	13	22.51	22.46	22.46	22.54	22.48	
5	QPSK	25	0	22.61	22.53	22.44	22.42	22.49	
5	16QAM	1	0	22.24	22.18	22.24	22.10	22.12	23.8
5	16QAM	1	12	22.14	22.07	22.14	22.01	21.95	
5	16QAM	1	24	22.03	22.21	22.19	22.03	22.08	
5	16QAM	12	0	22.20	22.15	22.12	22.13	21.98	23.1
5	16QAM	12	7	22.19	22.21	21.98	22.19	22.09	
5	16QAM	12	13	22.19	22.08	22.17	22.16	21.93	
5	16QAM	25	0	22.22	22.11	22.25	22.15	22.04	
5	64QAM	1	0	22.01	21.92	21.96	21.91	21.83	23.1
5	64QAM	1	12	22.10	21.86	21.96	21.95	21.77	
5	64QAM	1	24	21.99	22.06	22.01	21.82	21.86	
5	64QAM	12	0	21.15	21.06	21.15	21.10	20.91	22.1
5	64QAM	12	7	21.15	21.18	21.00	21.14	21.09	
5	64QAM	12	13	21.15	21.12	21.18	21.04	21.01	
5	64QAM	25	0	21.12	21.24	21.20	21.05	21.07	
5	256QAM	1	0	19.37	19.09	19.30	19.14	19.25	20.1
5	256QAM	1	12	19.27	19.19	19.14	19.28	19.17	
5	256QAM	1	24	19.32	19.29	19.18	19.20	19.02	
5	256QAM	12	0	19.38	19.39	19.38	19.34	19.30	20.1
5	256QAM	12	7	19.33	19.45	19.30	19.30	19.22	
5	256QAM	12	13	19.48	19.46	19.42	19.23	19.18	
5	256QAM	25	0	19.34	19.50	19.39	19.41	19.37	



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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	22.81	22.63	22.88	22.68	22.64	24.3
20	QPSK	1	49	22.67	22.51	22.87	22.65	22.58	
20	QPSK	1	99	22.66	22.62	22.76	22.64	22.59	
20	QPSK	50	0	22.66	22.61	22.83	22.61	22.64	24.1
20	QPSK	50	24	22.60	22.56	22.81	22.60	22.52	
20	QPSK	50	50	22.61	22.50	22.65	22.61	22.61	
20	QPSK	100	0	22.63	22.57	22.72	22.54	22.53	24.1
20	16QAM	1	0	22.18	22.27	22.34	22.28	22.23	
20	16QAM	1	49	22.28	22.29	22.22	22.10	22.28	
20	16QAM	1	99	22.16	22.26	22.20	22.28	22.20	23.1
20	16QAM	50	0	21.80	21.72	21.99	21.88	21.84	
20	16QAM	50	24	21.63	21.65	21.65	21.61	21.68	
20	16QAM	50	50	21.72	21.57	21.74	21.63	21.80	23.1
20	16QAM	100	0	21.71	21.85	21.82	21.87	21.81	
20	64QAM	1	0	21.73	21.75	22.15	21.61	21.58	
20	64QAM	1	49	21.75	21.61	22.01	21.83	21.71	22.1
20	64QAM	1	99	21.88	21.49	21.65	21.68	21.79	
20	64QAM	50	0	20.81	20.52	20.85	20.49	20.58	
20	64QAM	50	24	20.87	20.62	21.00	20.58	20.62	20.1
20	64QAM	50	50	20.88	20.57	20.91	20.47	20.35	
20	64QAM	100	0	20.76	20.82	20.75	20.62	20.50	
20	256QAM	1	0	19.01	19.04	19.01	19.14	18.81	20.1
20	256QAM	1	49	18.79	18.71	19.14	19.05	19.02	
20	256QAM	1	99	19.18	18.83	18.97	18.81	18.74	
20	256QAM	50	0	19.04	18.89	19.44	18.81	18.75	20.1
20	256QAM	50	24	18.96	19.10	19.20	19.00	18.86	
20	256QAM	50	50	18.78	18.75	19.19	18.93	18.77	
20	256QAM	100	0	18.87	18.94	19.27	18.61	18.70	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.76	22.51	22.69	22.51	22.51	24.30
15	QPSK	1	37	22.65	22.35	22.86	22.50	22.55	
15	QPSK	1	74	22.56	22.62	22.56	22.54	22.46	
15	QPSK	36	0	22.50	22.51	22.69	22.62	22.45	24.1
15	QPSK	36	20	22.70	22.48	22.71	22.44	22.46	
15	QPSK	36	39	22.59	22.50	22.52	22.55	22.41	
15	QPSK	75	0	22.47	22.39	22.61	22.60	22.47	24.1
15	16QAM	1	0	22.14	22.20	22.22	22.20	22.16	
15	16QAM	1	37	22.12	22.23	22.27	22.14	22.13	
15	16QAM	1	74	22.23	22.24	22.25	22.12	22.27	23.1
15	16QAM	36	0	21.65	21.58	21.97	21.56	21.69	
15	16QAM	36	20	21.66	21.42	21.89	21.55	21.51	
15	16QAM	36	39	21.54	21.65	21.70	21.70	21.46	23.1
15	16QAM	75	0	21.85	21.71	21.71	21.58	21.63	
15	64QAM	1	0	21.85	21.62	21.77	21.60	21.79	
15	64QAM	1	37	21.68	21.30	21.82	21.55	21.51	22.1
15	64QAM	1	74	21.53	21.37	21.54	21.58	21.72	
15	64QAM	36	0	20.83	20.81	20.79	20.50	20.45	
15	64QAM	36	20	20.49	20.47	20.49	20.43	20.38	20.1
15	64QAM	36	39	20.67	20.49	20.59	20.40	20.32	
15	64QAM	75	0	20.84	20.47	20.95	20.63	20.31	
15	256QAM	1	0	18.98	18.85	19.08	19.01	18.92	20.1
15	256QAM	1	37	19.03	18.75	19.04	18.64	18.94	
15	256QAM	1	74	18.98	18.72	19.03	18.84	19.02	
15	256QAM	36	0	19.19	19.07	19.05	18.76	18.49	20.1
15	256QAM	36	20	18.91	18.74	18.76	18.66	18.88	
15	256QAM	36	39	18.88	18.69	18.98	18.64	18.57	



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15	256QAM	75	0	19.08	18.89	18.90	18.70	18.42	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.78	22.62	22.73	22.66	22.57	24.30
10	QPSK	1	25	22.67	22.56	22.80	22.58	22.55	
10	QPSK	1	49	22.62	22.42	22.60	22.57	22.38	
10	QPSK	25	0	22.54	22.56	22.74	22.51	22.51	24.1
10	QPSK	25	12	22.68	22.40	22.78	22.52	22.42	
10	QPSK	25	25	22.47	22.51	22.62	22.35	22.47	
10	QPSK	50	0	22.65	22.45	22.61	22.39	22.41	24.1
10	16QAM	1	0	22.15	22.11	22.20	22.25	22.25	
10	16QAM	1	25	22.22	22.14	22.16	22.25	22.17	
10	16QAM	1	49	22.28	22.22	22.10	22.20	22.19	23.1
10	16QAM	25	0	21.70	21.53	22.00	21.73	21.54	
10	16QAM	25	12	21.73	21.53	21.84	21.49	21.41	
10	16QAM	25	25	21.64	21.30	21.81	21.38	21.66	23.1
10	16QAM	50	0	21.76	21.75	21.51	21.55	21.39	
10	64QAM	1	0	21.68	21.49	21.91	21.43	21.51	
10	64QAM	1	25	21.50	21.54	21.49	21.56	21.62	23.1
10	64QAM	1	49	21.67	21.67	21.53	21.35	21.69	
10	64QAM	25	0	20.75	20.42	21.07	20.47	20.53	
10	64QAM	25	12	20.57	20.71	20.76	20.22	20.35	22.1
10	64QAM	25	25	20.50	20.60	20.97	20.44	20.34	
10	64QAM	50	0	20.83	20.56	20.71	20.50	20.15	
10	256QAM	1	0	18.99	18.71	18.97	19.06	18.74	20.1
10	256QAM	1	25	18.88	18.81	19.01	18.63	18.74	
10	256QAM	1	49	19.03	19.03	18.93	18.64	18.54	
10	256QAM	25	0	19.06	19.01	19.03	18.58	18.56	20.1
10	256QAM	25	12	19.18	18.62	19.05	18.53	18.50	
10	256QAM	25	25	18.83	18.86	19.01	18.77	18.46	
10	256QAM	50	0	18.87	18.93	19.07	18.76	18.49	
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	22.67	22.34	22.79	22.65	22.64	24.30
5	QPSK	1	12	22.60	22.44	22.81	22.43	22.56	
5	QPSK	1	24	22.55	22.45	22.63	22.54	22.49	
5	QPSK	12	0	22.65	22.49	22.62	22.58	22.54	24.1
5	QPSK	12	7	22.74	22.44	22.72	22.47	22.36	
5	QPSK	12	13	22.58	22.39	22.52	22.52	22.42	
5	QPSK	25	0	22.57	22.38	22.68	22.42	22.53	24.1
5	16QAM	1	0	22.18	22.13	22.12	22.29	22.11	
5	16QAM	1	12	22.15	22.12	22.28	22.29	22.11	
5	16QAM	1	24	22.12	22.24	22.23	22.28	22.23	23.1
5	16QAM	12	0	21.66	21.37	21.69	21.61	21.79	
5	16QAM	12	7	21.61	21.63	21.74	21.44	21.71	
5	16QAM	12	13	21.67	21.75	21.72	21.62	21.43	23.1
5	16QAM	25	0	21.96	21.85	21.45	21.72	21.61	
5	64QAM	1	0	21.86	21.50	21.76	21.70	21.67	
5	64QAM	1	12	21.42	21.50	21.59	21.57	21.56	23.1
5	64QAM	1	24	21.43	21.49	21.56	21.43	21.53	
5	64QAM	12	0	20.95	20.67	21.00	20.50	20.53	
5	64QAM	12	7	20.85	20.50	20.94	20.39	20.21	22.1
5	64QAM	12	13	20.71	20.64	20.65	20.57	20.14	
5	64QAM	25	0	20.58	20.76	20.87	20.26	20.36	
5	256QAM	1	0	18.95	19.05	18.98	18.84	18.91	20.1
5	256QAM	1	12	18.79	18.64	19.10	18.71	18.70	
5	256QAM	1	24	18.72	18.83	19.09	18.50	18.95	
5	256QAM	12	0	18.83	18.92	19.20	18.86	18.86	20.1
5	256QAM	12	7	19.08	18.67	19.16	18.74	18.96	
5	256QAM	12	13	18.67	18.64	18.95	18.79	18.49	
5	256QAM	25	0	19.16	18.81	19.06	18.71	18.37	



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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	20.13	20.14	20.17	20.13	20.02	20.3
20	QPSK	1	49	20.12	20.13	20.11	20.10	19.97	
20	QPSK	1	99	20.12	20.11	20.13	20.09	19.92	
20	QPSK	50	0	20.09	20.13	20.15	20.13	19.97	20.3
20	QPSK	50	24	20.09	20.13	20.12	20.09	19.94	
20	QPSK	50	50	20.06	20.12	20.13	20.09	19.89	
20	QPSK	100	0	20.12	20.13	20.14	20.08	19.95	20.3
20	16QAM	1	0	19.92	20.00	19.93	20.10	19.76	
20	16QAM	1	49	19.86	19.99	19.93	20.05	19.70	
20	16QAM	1	99	19.87	19.93	19.97	20.05	19.70	20.3
20	16QAM	50	0	20.05	20.14	20.16	20.09	19.96	
20	16QAM	50	24	20.08	20.16	20.15	20.12	19.90	
20	16QAM	50	50	20.09	20.16	20.10	20.16	19.89	20.3
20	16QAM	100	0	20.11	20.11	20.10	20.14	19.97	
20	64QAM	1	0	19.96	19.88	19.96	20.13	19.94	
20	64QAM	1	49	19.82	19.92	20.03	20.02	19.87	20.3
20	64QAM	1	99	19.90	19.85	20.04	20.06	19.78	
20	64QAM	50	0	20.09	20.13	20.11	20.11	19.94	
20	64QAM	50	24	20.08	20.14	20.15	20.16	19.94	20.3
20	64QAM	50	50	20.07	20.14	20.11	20.16	19.90	
20	64QAM	100	0	20.10	20.14	20.09	20.14	19.99	
20	256QAM	1	0	19.82	20.08	20.01	20.07	19.84	20.1
20	256QAM	1	49	19.79	20.00	20.08	20.08	19.68	
20	256QAM	1	99	19.90	19.87	20.02	19.95	19.88	
20	256QAM	50	0	19.99	20.01	20.00	19.97	19.83	20.1
20	256QAM	50	24	20.01	20.05	20.01	20.04	19.70	
20	256QAM	50	50	20.00	20.10	20.05	19.94	19.95	
20	256QAM	100	0	19.95	20.02	19.92	19.94	19.84	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	19.96	20.03	20.00	19.94	19.82	20.30
15	QPSK	1	37	20.10	19.97	19.98	20.06	19.93	
15	QPSK	1	74	20.06	20.08	19.97	20.06	19.80	
15	QPSK	36	0	19.96	20.10	20.07	20.13	19.92	20.3
15	QPSK	36	20	20.04	19.96	20.08	19.92	19.82	
15	QPSK	36	39	20.02	20.06	19.95	19.99	19.80	
15	QPSK	75	0	20.04	20.10	20.11	20.07	19.83	20.3
15	16QAM	1	0	19.73	19.98	19.75	20.05	19.72	
15	16QAM	1	37	19.83	19.90	19.78	19.93	19.53	
15	16QAM	1	74	19.74	19.89	19.95	19.98	19.50	20.3
15	16QAM	36	0	19.99	20.11	20.03	19.94	19.80	
15	16QAM	36	20	20.03	20.16	20.00	20.12	19.78	
15	16QAM	36	39	19.92	20.15	20.10	20.01	19.88	20.3
15	16QAM	75	0	20.06	20.00	19.94	20.11	19.84	
15	64QAM	1	0	19.91	19.69	19.89	20.12	19.94	
15	64QAM	1	37	19.71	19.83	19.83	20.02	19.69	20.3
15	64QAM	1	74	19.76	19.77	19.91	20.03	19.58	
15	64QAM	36	0	19.95	20.07	19.97	20.08	19.88	
15	64QAM	36	20	19.98	20.11	20.05	20.10	19.75	20.3
15	64QAM	36	39	19.88	20.10	19.95	20.15	19.70	
15	64QAM	75	0	20.08	19.99	19.94	20.13	19.87	
15	256QAM	1	0	19.73	20.08	19.93	20.06	19.78	20.1
15	256QAM	1	37	19.74	19.83	20.01	19.95	19.60	
15	256QAM	1	74	19.72	19.74	20.02	19.84	19.79	
15	256QAM	36	0	19.84	19.94	19.99	19.80	19.68	20.1
15	256QAM	36	20	19.97	20.03	19.95	19.94	19.59	
15	256QAM	36	39	20.00	20.06	19.90	19.78	19.95	



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15	256QAM	75	0	19.85	19.90	19.75	19.84	19.75	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.04	19.95	20.16	20.05	20.02	20.30
10	QPSK	1	25	19.96	20.13	20.03	20.09	19.79	
10	QPSK	1	49	20.04	20.07	20.10	20.06	19.76	
10	QPSK	25	0	20.06	19.98	20.00	20.07	19.85	20.3
10	QPSK	25	12	20.04	20.00	20.01	19.89	19.94	
10	QPSK	25	25	20.06	19.92	20.03	19.97	19.76	
10	QPSK	50	0	20.08	19.96	20.04	20.01	19.90	
10	16QAM	1	0	19.74	19.98	19.89	19.93	19.74	20.3
10	16QAM	1	25	19.67	19.81	19.79	19.93	19.58	
10	16QAM	1	49	19.87	19.93	19.90	19.97	19.64	
10	16QAM	25	0	20.02	20.10	20.00	20.06	19.86	20.3
10	16QAM	25	12	19.88	20.15	20.14	20.02	19.87	
10	16QAM	25	25	19.93	19.99	20.02	20.02	19.87	
10	16QAM	50	0	20.06	20.03	20.01	20.00	19.81	
10	64QAM	1	0	19.91	19.82	19.82	20.03	19.74	20.3
10	64QAM	1	25	19.73	19.78	19.90	20.02	19.79	
10	64QAM	1	49	19.73	19.69	20.04	20.01	19.67	
10	64QAM	25	0	19.98	20.04	19.98	20.11	19.90	20.3
10	64QAM	25	12	20.07	20.11	19.96	20.02	19.92	
10	64QAM	25	25	20.07	19.99	20.08	20.08	19.73	
10	64QAM	50	0	19.95	19.98	20.07	20.01	19.82	
10	256QAM	1	0	19.62	20.03	19.96	19.95	19.71	20.1
10	256QAM	1	25	19.70	19.89	20.06	19.94	19.53	
10	256QAM	1	49	19.89	19.75	19.97	19.87	19.88	
10	256QAM	25	0	19.98	19.98	19.82	19.79	19.68	20.1
10	256QAM	25	12	19.95	19.85	19.93	20.02	19.57	
10	256QAM	25	25	19.99	20.00	19.92	19.90	19.82	
10	256QAM	50	0	19.92	19.91	19.82	19.88	19.67	
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	19.98	19.95	19.98	20.08	19.98	20.30
5	QPSK	1	12	19.99	20.01	20.10	20.03	19.78	
5	QPSK	1	24	19.97	20.03	19.94	19.95	19.88	
5	QPSK	12	0	20.03	20.00	19.98	20.01	19.79	20.3
5	QPSK	12	7	20.04	20.09	20.01	20.06	19.87	
5	QPSK	12	13	20.02	19.99	20.00	20.09	19.70	
5	QPSK	25	0	20.06	20.04	19.95	19.93	19.79	
5	16QAM	1	0	19.77	19.86	19.74	19.95	19.63	20.3
5	16QAM	1	12	19.67	19.88	19.75	19.99	19.50	
5	16QAM	1	24	19.83	19.90	19.77	20.03	19.58	
5	16QAM	12	0	19.87	20.11	20.05	20.09	19.81	20.3
5	16QAM	12	7	19.92	20.09	20.15	19.93	19.76	
5	16QAM	12	13	20.09	19.99	20.06	20.00	19.88	
5	16QAM	25	0	19.94	20.01	19.96	19.95	19.90	
5	64QAM	1	0	19.96	19.79	19.93	19.97	19.83	20.3
5	64QAM	1	12	19.81	19.84	19.84	19.94	19.76	
5	64QAM	1	24	19.89	19.80	20.02	20.03	19.70	
5	64QAM	12	0	19.93	20.01	20.06	19.98	19.92	20.3
5	64QAM	12	7	20.03	20.04	20.09	20.08	19.83	
5	64QAM	12	13	19.87	19.99	19.99	20.10	19.76	
5	64QAM	25	0	20.06	20.02	19.95	20.09	19.93	
5	256QAM	1	0	19.63	20.03	19.86	19.90	19.74	20.1
5	256QAM	1	12	19.69	19.83	20.06	20.07	19.57	
5	256QAM	1	24	19.73	19.81	19.95	19.94	19.80	
5	256QAM	12	0	19.82	19.98	19.97	19.81	19.72	20.1
5	256QAM	12	7	19.99	19.90	19.86	19.94	19.62	
5	256QAM	12	13	19.95	19.91	19.91	19.87	19.78	
5	256QAM	25	0	19.77	19.92	19.86	19.77	19.79	



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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	22.26	22.31	22.30	22.14	21.89	22.8
20	QPSK	1	49	22.19	22.21	22.19	22.02	21.81	
20	QPSK	1	99	22.22	22.28	22.26	22.03	21.85	
20	QPSK	50	0	22.23	22.30	22.29	22.05	21.83	22.8
20	QPSK	50	24	22.21	22.19	22.25	22.03	21.80	
20	QPSK	50	50	22.22	22.20	22.25	22.02	21.81	
20	QPSK	100	0	22.22	22.29	22.28	22.04	21.80	22.8
20	16QAM	1	0	22.05	21.92	22.00	21.94	21.92	
20	16QAM	1	49	21.98	21.79	21.88	21.77	21.85	
20	16QAM	1	99	22.00	21.88	21.94	21.75	21.89	22.8
20	16QAM	50	0	21.91	21.89	21.95	21.79	21.52	
20	16QAM	50	24	21.95	21.91	21.91	21.75	21.53	
20	16QAM	50	50	21.93	21.93	21.94	21.73	21.51	22.8
20	16QAM	100	0	21.96	22.01	21.99	21.76	21.58	
20	64QAM	1	0	21.89	21.84	21.83	21.65	21.38	
20	64QAM	1	49	21.78	21.73	21.74	21.52	21.30	22.8
20	64QAM	1	99	21.80	21.75	21.71	21.56	21.34	
20	64QAM	50	0	21.30	21.36	21.40	21.18	20.83	
20	64QAM	50	24	21.35	21.27	21.46	21.18	20.95	22.1
20	64QAM	50	50	21.28	21.25	21.31	21.17	20.89	
20	64QAM	100	0	21.37	21.33	21.33	21.27	20.95	
20	256QAM	1	0	19.47	19.43	19.57	19.23	19.02	20.1
20	256QAM	1	49	19.39	19.37	19.38	19.12	18.86	
20	256QAM	1	99	19.54	19.50	19.44	19.11	18.89	
20	256QAM	50	0	19.58	19.47	19.64	19.39	19.04	20.1
20	256QAM	50	24	19.54	19.57	19.61	19.48	19.30	
20	256QAM	50	50	19.63	19.62	19.61	19.36	19.26	
20	256QAM	100	0	19.68	19.62	19.54	19.44	19.17	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.24	22.19	22.22	22.02	21.74	22.80
15	QPSK	1	37	22.13	22.06	22.00	22.00	21.63	
15	QPSK	1	74	22.04	22.19	22.06	21.88	21.67	
15	QPSK	36	0	22.15	22.17	22.26	21.89	21.77	22.8
15	QPSK	36	20	22.07	22.14	22.12	21.88	21.73	
15	QPSK	36	39	22.21	22.17	22.23	22.00	21.73	
15	QPSK	75	0	22.22	22.06	22.26	21.86	21.65	22.8
15	16QAM	1	0	21.99	21.80	21.94	21.75	21.83	
15	16QAM	1	37	21.96	21.80	21.80	21.78	21.65	
15	16QAM	1	74	21.81	21.81	21.93	21.71	21.73	22.8
15	16QAM	36	0	21.87	21.88	21.76	21.59	21.50	
15	16QAM	36	20	21.77	21.91	21.90	21.75	21.53	
15	16QAM	36	39	21.89	21.88	21.92	21.60	21.51	22.8
15	16QAM	75	0	21.78	21.81	21.92	21.64	21.42	
15	64QAM	1	0	21.75	21.72	21.68	21.55	21.27	
15	64QAM	1	37	21.65	21.71	21.66	21.45	21.13	22.8
15	64QAM	1	74	21.76	21.71	21.57	21.38	21.20	
15	64QAM	36	0	21.28	21.20	21.20	21.09	20.83	
15	64QAM	36	20	21.22	21.22	21.23	21.24	20.76	22.1
15	64QAM	36	39	21.14	21.16	21.19	21.15	20.93	
15	64QAM	75	0	21.34	21.34	21.38	21.05	20.75	
15	256QAM	1	0	19.32	19.35	19.31	19.31	18.88	20.1
15	256QAM	1	37	19.27	19.22	19.24	19.14	18.88	
15	256QAM	1	74	19.47	19.38	19.24	18.87	18.84	
15	256QAM	36	0	19.53	19.25	19.49	19.20	18.89	20.1
15	256QAM	36	20	19.33	19.64	19.48	19.26	19.06	
15	256QAM	36	39	19.55	19.35	19.31	19.23	19.15	



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15	256QAM	75	0	19.64	19.41	19.61	19.36	19.23	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.25	22.12	22.22	22.01	21.83	22.80
10	QPSK	1	25	21.99	22.06	21.99	21.91	21.75	
10	QPSK	1	49	22.08	22.11	22.19	22.00	21.65	
10	QPSK	25	0	22.21	22.15	22.25	22.03	21.63	22.8
10	QPSK	25	12	22.20	22.04	22.05	21.89	21.79	
10	QPSK	25	25	22.12	22.14	22.07	21.93	21.73	
10	QPSK	50	0	22.13	22.09	22.13	21.98	21.67	
10	16QAM	1	0	22.01	21.74	21.81	21.80	21.82	22.8
10	16QAM	1	25	21.78	21.74	21.76	21.72	21.85	
10	16QAM	1	49	21.89	21.78	21.79	21.70	21.74	
10	16QAM	25	0	21.75	21.86	21.86	21.59	21.46	22.8
10	16QAM	25	12	21.77	21.89	21.86	21.62	21.46	
10	16QAM	25	25	21.80	21.73	21.82	21.56	21.33	
10	16QAM	50	0	21.86	22.01	21.97	21.56	21.49	
10	64QAM	1	0	21.76	21.70	21.81	21.48	21.32	22.8
10	64QAM	1	25	21.77	21.66	21.71	21.45	21.26	
10	64QAM	1	49	21.69	21.58	21.61	21.40	21.20	
10	64QAM	25	0	21.31	21.24	21.22	21.08	20.73	22.1
10	64QAM	25	12	21.10	21.28	21.24	21.11	20.76	
10	64QAM	25	25	21.25	21.32	21.20	21.08	20.82	
10	64QAM	50	0	21.12	21.25	21.24	21.02	20.87	
10	256QAM	1	0	19.26	19.51	19.34	19.30	19.00	20.1
10	256QAM	1	25	19.24	19.46	19.36	18.98	18.98	
10	256QAM	1	49	19.46	19.34	19.15	19.01	18.92	
10	256QAM	25	0	19.57	19.39	19.44	19.30	18.93	20.1
10	256QAM	25	12	19.46	19.62	19.44	19.30	19.18	
10	256QAM	25	25	19.42	19.31	19.43	19.27	19.05	
10	256QAM	50	0	19.35	19.43	19.45	19.25	19.06	
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	22.22	22.14	22.28	22.13	21.83	22.80
5	QPSK	1	12	22.15	22.05	22.03	22.01	21.73	
5	QPSK	1	24	22.08	22.23	22.23	21.91	21.77	
5	QPSK	12	0	22.08	22.24	22.19	21.89	21.70	22.8
5	QPSK	12	7	22.21	22.16	22.22	21.97	21.67	
5	QPSK	12	13	22.15	22.16	22.06	21.93	21.80	
5	QPSK	25	0	22.15	22.16	22.10	21.96	21.77	
5	16QAM	1	0	21.93	21.75	21.98	21.86	21.87	22.8
5	16QAM	1	12	21.81	21.77	21.86	21.83	21.85	
5	16QAM	1	24	21.87	21.73	21.81	21.80	21.85	
5	16QAM	12	0	21.76	21.73	21.75	21.63	21.40	22.8
5	16QAM	12	7	21.80	21.74	21.80	21.66	21.43	
5	16QAM	12	13	21.78	21.88	21.85	21.65	21.44	
5	16QAM	25	0	21.86	21.94	21.98	21.57	21.55	
5	64QAM	1	0	21.87	21.74	21.66	21.48	21.24	22.8
5	64QAM	1	12	21.71	21.64	21.70	21.42	21.14	
5	64QAM	1	24	21.77	21.63	21.64	21.37	21.34	
5	64QAM	12	0	21.32	21.32	21.11	21.10	20.82	22.1
5	64QAM	12	7	21.26	21.16	21.46	21.15	20.88	
5	64QAM	12	13	21.26	21.26	21.34	21.09	20.92	
5	64QAM	25	0	21.20	21.24	21.36	21.09	20.86	
5	256QAM	1	0	19.44	19.30	19.41	19.11	18.89	20.1
5	256QAM	1	12	19.41	19.38	19.30	18.97	18.99	
5	256QAM	1	24	19.27	19.14	19.26	19.04	18.85	
5	256QAM	12	0	19.53	19.33	19.63	19.38	19.05	20.1
5	256QAM	12	7	19.38	19.61	19.60	19.30	19.10	
5	256QAM	12	13	19.61	19.43	19.44	19.32	19.06	
5	256QAM	25	0	19.40	19.55	19.66	19.29	18.98	



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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	22.68	22.71	22.65	22.60	22.60	23
20	QPSK	1	49	22.63	22.64	22.59	22.53	22.55	
20	QPSK	1	99	22.65	22.69	22.64	22.59	22.58	
20	QPSK	50	0	22.67	22.68	22.65	22.61	22.59	23
20	QPSK	50	24	22.64	22.66	22.63	22.60	22.57	
20	QPSK	50	50	22.65	22.65	22.64	22.61	22.56	
20	QPSK	100	0	22.63	22.65	22.58	22.55	22.53	23
20	16QAM	1	0	22.29	22.34	22.31	22.28	22.23	
20	16QAM	1	49	22.22	22.27	22.21	22.20	22.15	
20	16QAM	1	99	22.22	22.32	22.32	22.23	22.14	23
20	16QAM	50	0	22.28	22.28	22.19	22.16	22.15	
20	16QAM	50	24	22.29	22.27	22.18	22.19	22.16	
20	16QAM	50	50	22.26	22.28	22.19	22.16	22.13	23
20	16QAM	100	0	22.29	22.28	22.26	22.20	22.17	
20	64QAM	1	0	22.10	22.07	22.12	22.10	22.01	
20	64QAM	1	49	22.14	22.04	22.05	21.98	21.97	23
20	64QAM	1	99	22.10	22.07	22.08	22.00	21.95	
20	64QAM	50	0	21.24	21.25	21.20	21.17	21.11	
20	64QAM	50	24	21.24	21.26	21.20	21.18	21.13	22.1
20	64QAM	50	50	21.24	21.25	21.19	21.13	21.10	
20	64QAM	100	0	21.25	21.26	21.20	21.16	21.14	
20	256QAM	1	0	19.44	19.27	19.31	19.33	19.29	20.1
20	256QAM	1	49	19.47	19.30	19.25	19.29	19.17	
20	256QAM	1	99	19.47	19.40	19.26	19.31	19.04	
20	256QAM	50	0	19.57	19.52	19.45	19.38	19.40	20.1
20	256QAM	50	24	19.51	19.47	19.41	19.41	19.39	
20	256QAM	50	50	19.51	19.51	19.42	19.43	19.34	
20	256QAM	100	0	19.50	19.53	19.51	19.48	19.46	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.55	22.53	22.48	22.47	22.53	23.00
15	QPSK	1	37	22.47	22.59	22.44	22.42	22.53	
15	QPSK	1	74	22.52	22.49	22.49	22.49	22.47	
15	QPSK	36	0	22.61	22.49	22.62	22.52	22.49	23
15	QPSK	36	20	22.61	22.47	22.52	22.40	22.41	
15	QPSK	36	39	22.49	22.54	22.62	22.58	22.54	
15	QPSK	75	0	22.55	22.57	22.49	22.42	22.40	23
15	16QAM	1	0	22.11	22.14	22.17	22.17	22.17	
15	16QAM	1	37	22.06	22.20	22.01	22.14	22.06	
15	16QAM	1	74	22.15	22.13	22.24	22.23	22.12	23
15	16QAM	36	0	22.28	22.25	22.19	21.97	22.10	
15	16QAM	36	20	22.16	22.27	22.05	22.16	22.15	
15	16QAM	36	39	22.24	22.26	22.14	22.07	22.05	23
15	16QAM	75	0	22.09	22.19	22.17	22.08	22.02	
15	64QAM	1	0	21.97	22.03	21.96	22.07	21.93	
15	64QAM	1	37	22.04	21.89	21.94	21.80	21.88	23
15	64QAM	1	74	22.03	22.05	21.88	21.93	21.80	
15	64QAM	36	0	21.06	21.14	21.02	21.01	20.98	
15	64QAM	36	20	21.09	21.09	21.20	21.04	20.94	22.1
15	64QAM	36	39	21.12	21.23	21.01	21.12	21.02	
15	64QAM	75	0	21.18	21.16	21.20	21.10	20.96	
15	256QAM	1	0	19.43	19.24	19.21	19.15	19.27	20.1
15	256QAM	1	37	19.44	19.26	19.18	19.15	19.06	
15	256QAM	1	74	19.36	19.24	19.15	19.24	18.96	
15	256QAM	36	0	19.55	19.49	19.37	19.30	19.27	20.1
15	256QAM	36	20	19.36	19.44	19.38	19.32	19.26	
15	256QAM	36	39	19.44	19.38	19.36	19.37	19.14	



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15	256QAM	75	0	19.44	19.37	19.45	19.37	19.33	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.52	22.51	22.65	22.40	22.54	23.00
10	QPSK	1	25	22.49	22.61	22.39	22.46	22.48	
10	QPSK	1	49	22.46	22.66	22.52	22.42	22.53	
10	QPSK	25	0	22.49	22.60	22.65	22.42	22.49	23
10	QPSK	25	12	22.49	22.46	22.61	22.40	22.55	
10	QPSK	25	25	22.51	22.57	22.60	22.56	22.37	
10	QPSK	50	0	22.63	22.65	22.46	22.42	22.40	
10	16QAM	1	0	22.24	22.20	22.14	22.10	22.06	23
10	16QAM	1	25	22.08	22.16	22.07	22.08	22.08	
10	16QAM	1	49	22.04	22.23	22.23	22.06	22.13	
10	16QAM	25	0	22.22	22.16	22.18	22.14	21.96	23
10	16QAM	25	12	22.25	22.20	22.07	22.03	22.09	
10	16QAM	25	25	22.22	22.08	22.19	22.02	22.01	
10	16QAM	50	0	22.20	22.21	22.21	22.08	22.14	
10	64QAM	1	0	22.00	21.91	21.92	22.01	21.89	23
10	64QAM	1	25	21.94	21.94	21.96	21.98	21.77	
10	64QAM	1	49	22.01	22.06	21.92	21.83	21.86	
10	64QAM	25	0	21.22	21.09	21.06	21.14	21.05	22.1
10	64QAM	25	12	21.19	21.25	21.04	21.11	20.97	
10	64QAM	25	25	21.20	21.19	21.17	21.10	21.06	
10	64QAM	50	0	21.19	21.15	21.09	21.15	20.98	
10	256QAM	1	0	19.30	19.08	19.27	19.17	19.27	20.1
10	256QAM	1	25	19.27	19.10	19.22	19.16	19.10	
10	256QAM	1	49	19.32	19.38	19.26	19.17	19.01	
10	256QAM	25	0	19.47	19.43	19.39	19.28	19.23	20.1
10	256QAM	25	12	19.49	19.28	19.29	19.25	19.37	
10	256QAM	25	25	19.42	19.49	19.42	19.24	19.18	
10	256QAM	50	0	19.50	19.44	19.37	19.33	19.45	
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	22.62	22.56	22.48	22.56	22.59	23.00
5	QPSK	1	12	22.60	22.64	22.53	22.36	22.38	
5	QPSK	1	24	22.52	22.61	22.53	22.52	22.41	
5	QPSK	12	0	22.62	22.62	22.51	22.41	22.47	23
5	QPSK	12	7	22.49	22.52	22.57	22.54	22.39	
5	QPSK	12	13	22.51	22.46	22.46	22.54	22.48	
5	QPSK	25	0	22.61	22.53	22.44	22.42	22.49	
5	16QAM	1	0	22.24	22.18	22.24	22.10	22.12	23
5	16QAM	1	12	22.14	22.07	22.14	22.01	21.95	
5	16QAM	1	24	22.03	22.21	22.19	22.03	22.08	
5	16QAM	12	0	22.20	22.15	22.12	22.13	21.98	23
5	16QAM	12	7	22.19	22.21	21.98	22.19	22.09	
5	16QAM	12	13	22.19	22.08	22.17	22.16	21.93	
5	16QAM	25	0	22.22	22.11	22.25	22.15	22.04	
5	64QAM	1	0	22.01	21.92	21.96	21.91	21.83	23
5	64QAM	1	12	22.10	21.86	21.96	21.95	21.77	
5	64QAM	1	24	21.99	22.06	22.01	21.82	21.86	
5	64QAM	12	0	21.15	21.06	21.15	21.10	20.91	22.1
5	64QAM	12	7	21.15	21.18	21.00	21.14	21.09	
5	64QAM	12	13	21.15	21.12	21.18	21.04	21.01	
5	64QAM	25	0	21.12	21.24	21.20	21.05	21.07	
5	256QAM	1	0	19.37	19.09	19.30	19.14	19.25	20.1
5	256QAM	1	12	19.27	19.19	19.14	19.28	19.17	
5	256QAM	1	24	19.32	19.29	19.18	19.20	19.02	
5	256QAM	12	0	19.38	19.39	19.38	19.34	19.30	20.1
5	256QAM	12	7	19.33	19.45	19.30	19.30	19.22	
5	256QAM	12	13	19.48	19.46	19.42	19.23	19.18	
5	256QAM	25	0	19.34	19.50	19.39	19.41	19.37	



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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	22.81	22.63	22.88	22.68	22.64	23.5
20	QPSK	1	49	22.67	22.51	22.87	22.65	22.58	
20	QPSK	1	99	22.66	22.62	22.76	22.64	22.59	
20	QPSK	50	0	22.66	22.61	22.83	22.61	22.64	23.5
20	QPSK	50	24	22.60	22.56	22.81	22.60	22.52	
20	QPSK	50	50	22.61	22.50	22.65	22.61	22.61	
20	QPSK	100	0	22.63	22.57	22.72	22.54	22.53	23.5
20	16QAM	1	0	22.18	22.27	22.34	22.28	22.23	
20	16QAM	1	49	22.28	22.29	22.22	22.10	22.28	
20	16QAM	1	99	22.16	22.26	22.20	22.28	22.20	23.1
20	16QAM	50	0	21.80	21.72	21.99	21.88	21.84	
20	16QAM	50	24	21.63	21.65	21.65	21.61	21.68	
20	16QAM	50	50	21.72	21.57	21.74	21.63	21.80	23.1
20	16QAM	100	0	21.71	21.85	21.82	21.87	21.81	
20	64QAM	1	0	21.73	21.75	22.15	21.61	21.58	
20	64QAM	1	49	21.75	21.61	22.01	21.83	21.71	22.1
20	64QAM	1	99	21.88	21.49	21.65	21.68	21.79	
20	64QAM	50	0	20.81	20.52	20.85	20.49	20.58	
20	64QAM	50	24	20.87	20.62	21.00	20.58	20.62	20.1
20	64QAM	50	50	20.88	20.57	20.91	20.47	20.35	
20	64QAM	100	0	20.76	20.82	20.75	20.62	20.50	
20	256QAM	1	0	19.01	19.04	19.01	19.14	18.81	20.1
20	256QAM	1	49	18.79	18.71	19.14	19.05	19.02	
20	256QAM	1	99	19.18	18.83	18.97	18.81	18.74	
20	256QAM	50	0	19.04	18.89	19.44	18.81	18.75	20.1
20	256QAM	50	24	18.96	19.10	19.20	19.00	18.86	
20	256QAM	50	50	18.78	18.75	19.19	18.93	18.77	
20	256QAM	100	0	18.87	18.94	19.27	18.61	18.70	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.76	22.51	22.69	22.51	22.51	23.50
15	QPSK	1	37	22.65	22.35	22.86	22.50	22.55	
15	QPSK	1	74	22.56	22.62	22.56	22.54	22.46	
15	QPSK	36	0	22.50	22.51	22.69	22.62	22.45	23.5
15	QPSK	36	20	22.70	22.48	22.71	22.44	22.46	
15	QPSK	36	39	22.59	22.50	22.52	22.55	22.41	
15	QPSK	75	0	22.47	22.39	22.61	22.60	22.47	23.5
15	16QAM	1	0	22.14	22.20	22.22	22.20	22.16	
15	16QAM	1	37	22.12	22.23	22.27	22.14	22.13	
15	16QAM	1	74	22.23	22.24	22.25	22.12	22.27	23.1
15	16QAM	36	0	21.65	21.58	21.97	21.56	21.69	
15	16QAM	36	20	21.66	21.42	21.89	21.55	21.51	
15	16QAM	36	39	21.54	21.65	21.70	21.70	21.46	23.1
15	16QAM	75	0	21.85	21.71	21.71	21.58	21.63	
15	64QAM	1	0	21.85	21.62	21.77	21.60	21.79	
15	64QAM	1	37	21.68	21.30	21.82	21.55	21.51	22.1
15	64QAM	1	74	21.53	21.37	21.54	21.58	21.72	
15	64QAM	36	0	20.83	20.81	20.79	20.50	20.45	
15	64QAM	36	20	20.49	20.47	20.49	20.43	20.38	20.1
15	64QAM	36	39	20.67	20.49	20.59	20.40	20.32	
15	64QAM	75	0	20.84	20.47	20.95	20.63	20.31	
15	256QAM	1	0	18.98	18.85	19.08	19.01	18.92	20.1
15	256QAM	1	37	19.03	18.75	19.04	18.64	18.94	
15	256QAM	1	74	18.98	18.72	19.03	18.84	19.02	
15	256QAM	36	0	19.19	19.07	19.05	18.76	18.49	20.1
15	256QAM	36	20	18.91	18.74	18.76	18.66	18.88	
15	256QAM	36	39	18.88	18.69	18.98	18.64	18.57	



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15	256QAM	75	0	19.08	18.89	18.90	18.70	18.42	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.78	22.62	22.73	22.66	22.57	23.50
10	QPSK	1	25	22.67	22.56	22.80	22.58	22.55	
10	QPSK	1	49	22.62	22.42	22.60	22.57	22.38	
10	QPSK	25	0	22.54	22.56	22.74	22.51	22.51	23.5
10	QPSK	25	12	22.68	22.40	22.78	22.52	22.42	
10	QPSK	25	25	22.47	22.51	22.62	22.35	22.47	
10	QPSK	50	0	22.65	22.45	22.61	22.39	22.41	23.5
10	16QAM	1	0	22.15	22.11	22.20	22.25	22.25	
10	16QAM	1	25	22.22	22.14	22.16	22.25	22.17	
10	16QAM	1	49	22.28	22.22	22.10	22.20	22.19	23.1
10	16QAM	25	0	21.70	21.53	22.00	21.73	21.54	
10	16QAM	25	12	21.73	21.53	21.84	21.49	21.41	
10	16QAM	25	25	21.64	21.30	21.81	21.38	21.66	23.1
10	16QAM	50	0	21.76	21.75	21.51	21.55	21.39	
10	64QAM	1	0	21.68	21.49	21.91	21.43	21.51	
10	64QAM	1	25	21.50	21.54	21.49	21.56	21.62	23.1
10	64QAM	1	49	21.67	21.67	21.53	21.35	21.69	
10	64QAM	25	0	20.75	20.42	21.07	20.47	20.53	
10	64QAM	25	12	20.57	20.71	20.76	20.22	20.35	22.1
10	64QAM	25	25	20.50	20.60	20.97	20.44	20.34	
10	64QAM	50	0	20.83	20.56	20.71	20.50	20.15	
10	256QAM	1	0	18.99	18.71	18.97	19.06	18.74	20.1
10	256QAM	1	25	18.88	18.81	19.01	18.63	18.74	
10	256QAM	1	49	19.03	19.03	18.93	18.64	18.54	
10	256QAM	25	0	19.06	19.01	19.03	18.58	18.56	20.1
10	256QAM	25	12	19.18	18.62	19.05	18.53	18.50	
10	256QAM	25	25	18.83	18.86	19.01	18.77	18.46	
10	256QAM	50	0	18.87	18.93	19.07	18.76	18.49	
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	22.67	22.34	22.79	22.65	22.64	23.50
5	QPSK	1	12	22.60	22.44	22.81	22.43	22.56	
5	QPSK	1	24	22.55	22.45	22.63	22.54	22.49	
5	QPSK	12	0	22.65	22.49	22.62	22.58	22.54	23.5
5	QPSK	12	7	22.74	22.44	22.72	22.47	22.36	
5	QPSK	12	13	22.58	22.39	22.52	22.52	22.42	
5	QPSK	25	0	22.57	22.38	22.68	22.42	22.53	23.5
5	16QAM	1	0	22.18	22.13	22.12	22.29	22.11	
5	16QAM	1	12	22.15	22.12	22.28	22.29	22.11	
5	16QAM	1	24	22.12	22.24	22.23	22.28	22.23	23.1
5	16QAM	12	0	21.66	21.37	21.69	21.61	21.79	
5	16QAM	12	7	21.61	21.63	21.74	21.44	21.71	
5	16QAM	12	13	21.67	21.75	21.72	21.62	21.43	23.1
5	16QAM	25	0	21.96	21.85	21.45	21.72	21.61	
5	64QAM	1	0	21.86	21.50	21.76	21.70	21.67	
5	64QAM	1	12	21.42	21.50	21.59	21.57	21.56	23.1
5	64QAM	1	24	21.43	21.49	21.56	21.43	21.53	
5	64QAM	12	0	20.95	20.67	21.00	20.50	20.53	
5	64QAM	12	7	20.85	20.50	20.94	20.39	20.21	22.1
5	64QAM	12	13	20.71	20.64	20.65	20.57	20.14	
5	64QAM	25	0	20.58	20.76	20.87	20.26	20.36	
5	256QAM	1	0	18.95	19.05	18.98	18.84	18.91	20.1
5	256QAM	1	12	18.79	18.64	19.10	18.71	18.70	
5	256QAM	1	24	18.72	18.83	19.09	18.50	18.95	
5	256QAM	12	0	18.83	18.92	19.20	18.86	18.86	20.1
5	256QAM	12	7	19.08	18.67	19.16	18.74	18.96	
5	256QAM	12	13	18.67	18.64	18.95	18.79	18.49	
5	256QAM	25	0	19.16	18.81	19.06	18.71	18.37	



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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	26.10	26.11	26.14	26.13	26.02	27
20	QPSK	1	49	26.06	26.07	26.12	26.07	26.01	
20	QPSK	1	99	26.08	26.11	26.07	26.07	25.86	
20	QPSK	50	0	25.18	25.17	25.19	25.13	24.95	26
20	QPSK	50	24	25.16	25.13	25.16	25.12	24.94	
20	QPSK	50	50	25.16	25.09	25.16	25.10	24.90	
20	QPSK	100	0	25.16	25.16	25.17	25.11	24.92	26
20	16QAM	1	0	24.36	24.70	24.46	24.67	24.53	
20	16QAM	1	49	24.20	24.26	24.29	24.25	24.13	
20	16QAM	1	99	24.39	24.43	24.50	24.36	24.28	25
20	16QAM	50	0	24.18	24.20	24.22	24.16	24.03	
20	16QAM	50	24	24.18	24.15	24.22	24.18	24.02	
20	16QAM	50	50	24.18	24.19	24.23	24.19	24.01	25
20	16QAM	100	0	24.15	24.20	24.18	24.16	23.99	
20	64QAM	1	0	24.47	24.63	24.55	24.62	24.46	
20	64QAM	1	49	24.40	24.44	24.47	24.42	24.52	25
20	64QAM	1	99	24.29	24.33	24.39	24.28	24.17	
20	64QAM	50	0	23.12	23.17	23.17	23.13	23.02	
20	64QAM	50	24	23.11	23.16	23.17	23.13	22.97	24
20	64QAM	50	50	23.15	23.17	23.20	23.13	22.98	
20	64QAM	100	0	23.15	23.17	23.16	23.14	22.96	
20	256QAM	1	0	21.69	21.92	21.76	21.88	21.75	22
20	256QAM	1	49	21.60	21.69	21.70	21.64	21.80	
20	256QAM	1	99	21.51	21.58	21.59	21.58	21.39	
20	256QAM	50	0	21.33	21.43	21.37	21.43	21.27	22
20	256QAM	50	24	21.38	21.40	21.40	21.36	21.26	
20	256QAM	50	50	21.43	21.45	21.48	21.37	21.25	
20	256QAM	100	0	21.44	21.37	21.42	21.34	21.19	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	26.03	26.03	26.13	26.05	25.94	27.00
15	QPSK	1	37	25.88	26.05	25.97	25.97	25.91	
15	QPSK	1	74	25.97	26.04	25.97	25.97	25.81	
15	QPSK	36	0	25.12	25.13	24.99	25.02	24.77	26
15	QPSK	36	20	25.10	24.93	25.07	25.10	24.89	
15	QPSK	36	39	24.96	25.05	25.02	25.10	24.86	
15	QPSK	75	0	25.10	25.01	25.07	25.07	24.88	26
15	16QAM	1	0	24.33	24.56	24.44	24.61	24.44	
15	16QAM	1	37	24.06	24.17	24.18	24.06	24.06	
15	16QAM	1	74	24.37	24.30	24.44	24.24	24.22	25
15	16QAM	36	0	24.07	24.15	24.19	24.01	23.86	
15	16QAM	36	20	24.01	24.15	24.07	24.18	23.94	
15	16QAM	36	39	24.03	24.06	24.12	24.16	23.93	25
15	16QAM	75	0	24.07	24.12	24.03	24.16	23.87	
15	64QAM	1	0	24.47	24.53	24.35	24.60	24.45	
15	64QAM	1	37	24.38	24.34	24.46	24.22	24.33	25
15	64QAM	1	74	24.24	24.32	24.34	24.28	24.01	
15	64QAM	36	0	22.99	23.04	23.09	23.02	22.86	
15	64QAM	36	20	23.10	23.12	23.00	22.97	22.80	24
15	64QAM	36	39	23.03	23.06	23.11	23.00	22.96	
15	64QAM	75	0	23.15	23.05	23.02	22.95	22.83	
15	256QAM	1	0	21.63	21.83	21.63	21.86	21.63	22
15	256QAM	1	37	21.51	21.68	21.69	21.55	21.74	
15	256QAM	1	74	21.31	21.47	21.48	21.56	21.35	
15	256QAM	36	0	21.16	21.35	21.24	21.32	21.15	22
15	256QAM	36	20	21.29	21.32	21.31	21.32	21.07	
15	256QAM	36	39	21.25	21.41	21.32	21.35	21.12	



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15	256QAM	75	0	21.36	21.33	21.38	21.31	21.16	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.05	25.95	25.97	25.97	26.00	27.00
10	QPSK	1	25	25.94	26.06	25.98	26.06	25.97	
10	QPSK	1	49	25.98	25.93	26.03	26.07	25.81	
10	QPSK	25	0	25.05	25.17	25.07	25.07	24.87	26
10	QPSK	25	12	24.99	24.94	25.10	25.12	24.74	
10	QPSK	25	25	24.99	24.91	25.06	24.90	24.71	
10	QPSK	50	0	24.99	25.06	25.10	25.10	24.77	26
10	16QAM	1	0	24.21	24.63	24.30	24.67	24.51	
10	16QAM	1	25	24.12	24.13	24.11	24.16	24.08	
10	16QAM	1	49	24.36	24.30	24.38	24.25	24.10	25
10	16QAM	25	0	24.18	24.09	24.04	23.99	23.95	
10	16QAM	25	12	23.98	24.00	24.19	24.14	23.85	
10	16QAM	25	25	24.16	24.00	24.16	24.17	23.96	25
10	16QAM	50	0	23.99	24.04	24.05	23.96	23.96	
10	64QAM	1	0	24.28	24.43	24.36	24.50	24.37	
10	64QAM	1	25	24.40	24.25	24.39	24.40	24.49	25
10	64QAM	1	49	24.27	24.26	24.35	24.08	24.12	
10	64QAM	25	0	23.08	23.02	22.97	23.12	23.01	
10	64QAM	25	12	22.97	23.07	23.04	23.07	22.89	24
10	64QAM	25	25	23.08	22.99	23.15	22.95	22.98	
10	64QAM	50	0	23.03	23.01	23.14	23.08	22.95	
10	256QAM	1	0	21.68	21.78	21.67	21.80	21.64	22
10	256QAM	1	25	21.45	21.50	21.53	21.50	21.68	
10	256QAM	1	49	21.38	21.48	21.49	21.51	21.33	
10	256QAM	25	0	21.22	21.24	21.22	21.24	21.19	22
10	256QAM	25	12	21.25	21.20	21.22	21.20	21.12	
10	256QAM	25	25	21.33	21.39	21.30	21.36	21.11	
10	256QAM	50	0	21.40	21.29	21.22	21.15	21.04	22
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.99	26.05	26.07	25.93	25.84	27.00
5	QPSK	1	12	25.94	26.03	26.08	25.96	25.96	
5	QPSK	1	24	26.01	26.01	25.95	25.97	25.71	
5	QPSK	12	0	25.08	25.06	25.05	25.08	24.75	26
5	QPSK	12	7	25.12	25.08	25.06	25.05	24.76	
5	QPSK	12	13	25.16	24.92	25.07	25.04	24.81	
5	QPSK	25	0	25.10	25.00	25.00	24.96	24.88	26
5	16QAM	1	0	24.25	24.70	24.41	24.48	24.46	
5	16QAM	1	12	24.12	24.09	24.29	24.23	24.06	
5	16QAM	1	24	24.38	24.38	24.47	24.22	24.12	25
5	16QAM	12	0	24.10	24.09	24.09	24.09	23.84	
5	16QAM	12	7	24.17	24.00	24.22	24.04	24.02	
5	16QAM	12	13	24.14	23.99	24.10	24.18	23.89	25
5	16QAM	25	0	24.10	24.08	24.16	24.15	23.80	
5	64QAM	1	0	24.30	24.45	24.44	24.48	24.43	
5	64QAM	1	12	24.21	24.29	24.34	24.28	24.48	25
5	64QAM	1	24	24.16	24.17	24.23	24.28	24.08	
5	64QAM	12	0	22.96	23.12	23.04	23.09	22.94	
5	64QAM	12	7	22.93	23.12	23.04	23.13	22.82	24
5	64QAM	12	13	23.10	22.98	23.13	23.07	22.79	
5	64QAM	25	0	23.07	23.13	22.99	23.11	22.78	
5	256QAM	1	0	21.53	21.81	21.73	21.69	21.74	22
5	256QAM	1	12	21.46	21.52	21.56	21.53	21.77	
5	256QAM	1	24	21.34	21.57	21.58	21.40	21.32	
5	256QAM	12	0	21.24	21.28	21.20	21.43	21.13	22
5	256QAM	12	7	21.20	21.33	21.29	21.33	21.15	
5	256QAM	12	13	21.41	21.43	21.46	21.29	21.08	
5	256QAM	25	0	21.32	21.21	21.22	21.20	21.10	



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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	21.54	21.59	21.46	21.35	21.19	22
20	QPSK	1	49	21.39	21.44	21.35	21.35	21.13	
20	QPSK	1	99	21.41	21.57	21.44	21.34	21.14	
20	QPSK	50	0	21.45	21.49	21.45	21.26	21.13	22
20	QPSK	50	24	21.41	21.48	21.38	21.15	21.18	
20	QPSK	50	50	21.36	21.42	21.31	21.16	21.13	
20	QPSK	100	0	21.42	21.45	21.44	21.23	21.07	22
20	16QAM	1	0	21.39	21.46	21.41	21.18	21.01	
20	16QAM	1	49	21.41	21.55	21.28	21.22	20.99	
20	16QAM	1	99	21.36	21.40	21.39	21.29	21.00	22
20	16QAM	50	0	21.51	21.48	21.35	21.17	21.02	
20	16QAM	50	24	21.45	21.53	21.31	21.15	21.06	
20	16QAM	50	50	21.45	21.50	21.43	21.28	21.13	22
20	16QAM	100	0	21.35	21.56	21.33	21.21	21.07	
20	64QAM	1	0	21.45	21.56	21.29	21.20	21.03	
20	64QAM	1	49	21.38	21.54	21.32	21.34	21.06	22
20	64QAM	1	99	21.45	21.52	21.26	21.34	21.11	
20	64QAM	50	0	21.38	21.46	21.26	21.23	20.99	
20	64QAM	50	24	21.53	21.58	21.30	21.26	21.18	22
20	64QAM	50	50	21.49	21.44	21.41	21.32	21.17	
20	64QAM	100	0	21.46	21.50	21.45	21.23	21.02	
20	256QAM	1	0	21.37	21.58	21.46	21.15	21.17	22
20	256QAM	1	49	21.39	21.46	21.31	21.28	21.14	
20	256QAM	1	99	21.34	21.57	21.45	21.24	21.10	
20	256QAM	50	0	21.48	21.50	21.37	21.32	21.01	22
20	256QAM	50	24	21.54	21.50	21.37	21.27	21.06	
20	256QAM	50	50	21.53	21.45	21.40	21.22	21.06	
20	256QAM	100	0	21.50	21.41	21.45	21.28	21.05	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.40	21.56	21.33	21.25	21.12	22.00
15	QPSK	1	37	21.19	21.28	21.20	21.22	20.95	
15	QPSK	1	74	21.39	21.37	21.30	21.23	21.11	
15	QPSK	36	0	21.27	21.34	21.45	21.18	21.01	22
15	QPSK	36	20	21.28	21.37	21.28	21.06	21.15	
15	QPSK	36	39	21.35	21.25	21.31	21.03	21.10	
15	QPSK	75	0	21.26	21.44	21.34	21.12	20.92	22
15	16QAM	1	0	21.39	21.31	21.23	21.15	21.01	
15	16QAM	1	37	21.29	21.54	21.18	21.14	20.82	
15	16QAM	1	74	21.36	21.20	21.22	21.19	21.00	22
15	16QAM	36	0	21.50	21.29	21.22	21.01	20.85	
15	16QAM	36	20	21.33	21.41	21.24	21.10	20.87	
15	16QAM	36	39	21.36	21.31	21.37	21.14	21.07	22
15	16QAM	75	0	21.27	21.54	21.29	21.20	21.02	
15	64QAM	1	0	21.26	21.40	21.23	21.13	20.93	
15	64QAM	1	37	21.37	21.46	21.14	21.17	20.90	22
15	64QAM	1	74	21.40	21.32	21.08	21.21	20.92	
15	64QAM	36	0	21.24	21.40	21.24	21.15	20.99	
15	64QAM	36	20	21.38	21.58	21.11	21.06	20.99	22
15	64QAM	36	39	21.36	21.37	21.21	21.26	21.07	
15	64QAM	75	0	21.34	21.37	21.32	21.20	20.88	
15	256QAM	1	0	21.29	21.51	21.35	21.03	21.00	22
15	256QAM	1	37	21.30	21.43	21.16	21.17	20.99	
15	256QAM	1	74	21.29	21.46	21.32	21.13	21.03	
15	256QAM	36	0	21.48	21.33	21.20	21.30	20.87	22
15	256QAM	36	20	21.48	21.36	21.25	21.16	20.90	
15	256QAM	36	39	21.45	21.44	21.39	21.07	21.05	



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15	256QAM	75	0	21.42	21.30	21.42	21.08	20.89	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.43	21.43	21.40	21.22	21.08	22.00
10	QPSK	1	25	21.33	21.27	21.30	21.27	21.10	
10	QPSK	1	49	21.26	21.43	21.44	21.24	21.04	
10	QPSK	25	0	21.43	21.46	21.42	21.20	20.99	22
10	QPSK	25	12	21.21	21.32	21.22	21.00	21.06	
10	QPSK	25	25	21.32	21.37	21.25	21.03	21.08	
10	QPSK	50	0	21.31	21.30	21.25	21.12	20.88	22
10	16QAM	1	0	21.31	21.40	21.24	21.18	20.99	
10	16QAM	1	25	21.29	21.49	21.15	21.11	20.85	
10	16QAM	1	49	21.24	21.20	21.38	21.27	20.93	22
10	16QAM	25	0	21.35	21.32	21.15	21.17	20.95	
10	16QAM	25	12	21.39	21.52	21.12	20.99	20.95	
10	16QAM	25	25	21.27	21.32	21.41	21.09	21.12	22
10	16QAM	50	0	21.25	21.40	21.32	21.21	21.07	
10	64QAM	1	0	21.28	21.46	21.29	21.02	20.92	
10	64QAM	1	25	21.19	21.39	21.29	21.17	20.93	22
10	64QAM	1	49	21.45	21.44	21.07	21.33	20.91	
10	64QAM	25	0	21.35	21.30	21.22	21.15	20.97	
10	64QAM	25	12	21.49	21.47	21.11	21.25	21.15	22
10	64QAM	25	25	21.39	21.39	21.27	21.18	20.98	
10	64QAM	50	0	21.34	21.43	21.41	21.17	20.96	
10	256QAM	1	0	21.25	21.58	21.28	21.11	21.04	22
10	256QAM	1	25	21.39	21.30	21.15	21.21	21.00	
10	256QAM	1	49	21.24	21.43	21.36	21.16	21.10	
10	256QAM	25	0	21.40	21.31	21.22	21.28	20.82	22
10	256QAM	25	12	21.36	21.49	21.28	21.16	21.04	
10	256QAM	25	25	21.51	21.43	21.20	21.09	20.87	
10	256QAM	50	0	21.32	21.30	21.35	21.09	20.97	22
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	21.38	21.49	21.30	21.21	21.01	22.00
5	QPSK	1	12	21.20	21.25	21.16	21.25	20.93	
5	QPSK	1	24	21.23	21.56	21.27	21.24	21.09	
5	QPSK	12	0	21.31	21.33	21.25	21.12	21.04	22
5	QPSK	12	7	21.36	21.36	21.19	20.98	21.04	
5	QPSK	12	13	21.21	21.33	21.21	21.02	21.07	
5	QPSK	25	0	21.41	21.25	21.35	21.13	20.87	22
5	16QAM	1	0	21.22	21.34	21.34	21.15	20.91	
5	16QAM	1	12	21.38	21.44	21.10	21.10	20.91	
5	16QAM	1	24	21.34	21.36	21.30	21.17	20.82	22
5	16QAM	12	0	21.36	21.40	21.35	20.99	21.01	
5	16QAM	12	7	21.40	21.50	21.22	21.11	20.87	
5	16QAM	12	13	21.25	21.49	21.30	21.25	20.96	22
5	16QAM	25	0	21.17	21.52	21.24	21.08	21.00	
5	64QAM	1	0	21.45	21.50	21.21	21.05	20.91	
5	64QAM	1	12	21.32	21.38	21.27	21.23	21.03	22
5	64QAM	1	24	21.38	21.36	21.15	21.28	20.99	
5	64QAM	12	0	21.29	21.27	21.06	21.15	20.85	
5	64QAM	12	7	21.49	21.55	21.14	21.23	21.17	22
5	64QAM	12	13	21.29	21.43	21.37	21.28	21.07	
5	64QAM	25	0	21.36	21.36	21.33	21.20	21.01	
5	256QAM	1	0	21.23	21.47	21.34	20.95	21.04	22
5	256QAM	1	12	21.36	21.32	21.12	21.14	21.14	
5	256QAM	1	24	21.20	21.47	21.29	21.09	20.98	
5	256QAM	12	0	21.31	21.31	21.23	21.30	20.92	22
5	256QAM	12	7	21.51	21.45	21.36	21.22	20.98	
5	256QAM	12	13	21.45	21.37	21.20	21.03	20.92	
5	256QAM	25	0	21.30	21.27	21.45	21.23	20.95	



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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	26.27	26.34	26.31	26.23	26.29	27
20	QPSK	1	49	26.25	26.25	26.27	26.14	26.22	
20	QPSK	1	99	26.22	26.22	26.22	26.11	25.91	
20	QPSK	50	0	25.24	25.30	25.26	25.23	25.18	26
20	QPSK	50	24	25.24	25.19	25.15	25.20	25.17	
20	QPSK	50	50	25.22	25.26	25.22	25.17	25.13	
20	QPSK	100	0	25.19	25.28	25.24	25.16	25.16	26
20	16QAM	1	0	24.37	24.30	24.32	24.30	24.16	
20	16QAM	1	49	24.22	24.26	24.27	24.27	24.14	
20	16QAM	1	99	24.28	24.26	24.26	24.20	24.21	25
20	16QAM	50	0	24.28	24.24	24.14	24.20	24.08	
20	16QAM	50	24	24.20	24.23	24.20	24.10	24.11	
20	16QAM	50	50	24.25	24.17	24.16	24.13	24.13	25
20	16QAM	100	0	24.24	24.21	24.20	24.14	24.20	
20	64QAM	1	0	24.23	23.97	24.03	23.99	24.05	
20	64QAM	1	49	24.09	23.92	23.92	23.98	23.85	25
20	64QAM	1	99	24.23	24.05	24.03	24.01	23.81	
20	64QAM	50	0	23.26	23.19	23.17	23.12	23.07	
20	64QAM	50	24	23.19	23.12	23.18	23.16	23.13	24
20	64QAM	50	50	23.16	23.14	23.19	23.13	23.09	
20	64QAM	100	0	23.19	23.19	23.20	23.09	23.17	
20	256QAM	1	0	21.53	21.21	21.24	21.25	21.34	22
20	256QAM	1	49	21.36	21.17	21.16	21.25	21.08	
20	256QAM	1	99	21.53	21.28	21.32	21.31	21.08	
20	256QAM	50	0	21.50	21.40	21.38	21.33	21.37	22
20	256QAM	50	24	21.47	21.35	21.45	21.41	21.38	
20	256QAM	50	50	21.36	21.36	21.45	21.42	21.36	
20	256QAM	100	0	21.49	21.41	21.48	21.36	21.45	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	26.27	26.14	26.24	26.11	26.25	27.00
15	QPSK	1	37	26.17	26.10	26.09	26.10	26.21	
15	QPSK	1	74	26.11	26.13	26.15	25.98	25.79	
15	QPSK	36	0	25.04	25.21	25.18	25.20	25.05	26
15	QPSK	36	20	25.05	25.14	25.08	25.15	25.04	
15	QPSK	36	39	25.03	25.09	25.19	25.17	24.97	
15	QPSK	75	0	25.07	25.18	25.07	25.12	25.00	26
15	16QAM	1	0	24.26	24.27	24.27	24.20	24.06	
15	16QAM	1	37	24.19	24.07	24.07	24.13	24.07	
15	16QAM	1	74	24.25	24.06	24.21	24.15	24.17	25
15	16QAM	36	0	24.20	24.18	23.99	24.12	23.93	
15	16QAM	36	20	24.16	24.16	24.04	23.90	23.96	
15	16QAM	36	39	24.12	24.12	23.99	24.04	23.93	25
15	16QAM	75	0	24.21	24.13	24.13	24.08	24.20	
15	64QAM	1	0	24.19	23.97	23.92	23.86	24.02	
15	64QAM	1	37	23.91	23.81	23.85	23.84	23.65	25
15	64QAM	1	74	24.10	23.89	23.98	23.86	23.62	
15	64QAM	36	0	23.20	23.07	23.09	23.05	22.91	
15	64QAM	36	20	23.15	23.01	23.13	23.05	22.94	24
15	64QAM	36	39	23.03	23.00	23.06	23.10	23.01	
15	64QAM	75	0	22.99	23.08	23.19	22.96	23.12	
15	256QAM	1	0	21.53	21.06	21.15	21.12	21.34	22
15	256QAM	1	37	21.33	21.13	21.07	21.08	21.01	
15	256QAM	1	74	21.41	21.11	21.32	21.30	20.88	
15	256QAM	36	0	21.38	21.24	21.29	21.21	21.21	22
15	256QAM	36	20	21.40	21.27	21.33	21.28	21.27	
15	256QAM	36	39	21.23	21.27	21.37	21.36	21.22	



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15	256QAM	75	0	21.37	21.36	21.33	21.34	21.27	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	26.22	26.15	26.19	26.03	26.21	27.00
10	QPSK	1	25	26.18	26.13	26.15	26.08	26.14	
10	QPSK	1	49	26.09	26.15	26.04	26.06	25.85	
10	QPSK	25	0	25.06	25.22	25.23	25.15	25.16	26
10	QPSK	25	12	25.11	25.08	25.11	25.00	25.11	
10	QPSK	25	25	25.15	25.26	25.06	25.00	24.94	
10	QPSK	50	0	25.11	25.16	25.15	25.08	25.01	26
10	16QAM	1	0	24.18	24.11	24.31	24.11	24.06	
10	16QAM	1	25	24.14	24.19	24.11	24.14	24.00	
10	16QAM	1	49	24.11	24.21	24.26	24.14	24.15	25
10	16QAM	25	0	24.27	24.24	23.98	24.06	24.02	
10	16QAM	25	12	24.20	24.18	24.03	24.00	23.91	
10	16QAM	25	25	24.21	24.14	23.97	24.00	24.12	25
10	16QAM	50	0	24.10	24.10	24.07	24.07	24.06	
10	64QAM	1	0	24.06	23.92	23.84	23.90	24.02	
10	64QAM	1	25	24.04	23.78	23.92	23.95	23.83	25
10	64QAM	1	49	24.18	23.90	23.96	23.96	23.63	
10	64QAM	25	0	23.18	23.10	23.11	23.10	23.07	
10	64QAM	25	12	23.07	23.01	23.18	23.01	23.03	24
10	64QAM	25	25	23.04	23.12	23.14	23.10	23.07	
10	64QAM	50	0	22.99	23.00	23.16	22.96	23.16	
10	256QAM	1	0	21.49	21.02	21.17	21.20	21.16	22
10	256QAM	1	25	21.28	21.05	21.12	21.10	20.92	
10	256QAM	1	49	21.50	21.16	21.30	21.13	21.05	
10	256QAM	25	0	21.48	21.23	21.31	21.16	21.31	22
10	256QAM	25	12	21.29	21.17	21.27	21.23	21.23	
10	256QAM	25	25	21.29	21.26	21.30	21.32	21.22	
10	256QAM	50	0	21.49	21.21	21.30	21.33	21.30	
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	26.24	26.14	26.19	26.09	26.15	27.00
5	QPSK	1	12	26.12	26.23	26.07	26.04	26.20	
5	QPSK	1	24	26.02	26.19	26.04	26.08	25.86	
5	QPSK	12	0	25.24	25.23	25.20	25.22	25.02	26
5	QPSK	12	7	25.08	25.16	25.02	25.06	24.97	
5	QPSK	12	13	25.10	25.15	25.08	25.05	25.10	
5	QPSK	25	0	25.14	25.24	25.11	24.98	24.99	26
5	16QAM	1	0	24.30	24.27	24.12	24.18	24.02	
5	16QAM	1	12	24.08	24.17	24.13	24.11	24.01	
5	16QAM	1	24	24.22	24.13	24.20	24.08	24.09	25
5	16QAM	12	0	24.10	24.24	24.07	24.12	24.06	
5	16QAM	12	7	24.13	24.17	24.15	23.91	24.02	
5	16QAM	12	13	24.07	24.04	24.08	24.09	24.10	25
5	16QAM	25	0	24.18	24.02	24.16	24.03	24.04	
5	64QAM	1	0	24.09	23.97	23.86	23.95	23.92	
5	64QAM	1	12	24.07	23.88	23.76	23.85	23.85	25
5	64QAM	1	24	24.19	24.01	23.86	23.91	23.64	
5	64QAM	12	0	23.14	23.07	22.97	23.07	22.96	
5	64QAM	12	7	23.10	23.08	22.99	23.05	23.13	24
5	64QAM	12	13	22.99	23.12	23.17	23.01	23.06	
5	64QAM	25	0	23.00	23.01	23.09	22.91	23.05	
5	256QAM	1	0	21.36	21.02	21.15	21.09	21.19	22
5	256QAM	1	12	21.19	21.14	21.08	21.05	21.02	
5	256QAM	1	24	21.52	21.25	21.21	21.19	20.92	
5	256QAM	12	0	21.45	21.27	21.32	21.25	21.28	22
5	256QAM	12	7	21.29	21.21	21.40	21.25	21.26	
5	256QAM	12	13	21.29	21.25	21.25	21.42	21.33	
5	256QAM	25	0	21.48	21.22	21.45	21.18	21.44	



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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	25.87	25.73	26.08	25.82	25.86	27
20	QPSK	1	49	25.81	25.66	25.92	25.78	25.75	
20	QPSK	1	99	25.76	25.64	25.77	25.83	25.76	
20	QPSK	50	0	24.82	24.72	24.95	24.72	24.74	26
20	QPSK	50	24	24.84	24.73	24.91	24.71	24.66	
20	QPSK	50	50	24.75	24.62	24.72	24.72	24.63	
20	QPSK	100	0	24.71	24.70	24.82	24.69	24.62	26
20	16QAM	1	0	24.17	24.08	24.30	24.09	24.04	
20	16QAM	1	49	24.10	24.12	24.18	24.08	24.09	
20	16QAM	1	99	24.18	24.01	24.18	24.03	24.00	25
20	16QAM	50	0	23.81	23.66	23.87	23.75	23.63	
20	16QAM	50	24	23.70	23.61	23.68	23.67	23.66	
20	16QAM	50	50	23.71	23.66	23.88	23.66	23.61	25
20	16QAM	100	0	23.71	23.76	23.72	23.64	23.63	
20	64QAM	1	0	23.76	23.63	23.86	23.68	23.59	
20	64QAM	1	49	23.65	23.56	23.74	23.62	23.70	24
20	64QAM	1	99	23.66	23.66	23.75	23.58	23.61	
20	64QAM	50	0	22.82	22.70	22.96	22.50	22.48	
20	64QAM	50	24	22.77	22.62	22.75	22.49	22.49	24
20	64QAM	50	50	22.66	22.57	22.91	22.54	22.42	
20	64QAM	100	0	22.78	22.59	22.75	22.48	22.42	
20	256QAM	1	0	20.96	20.86	21.12	20.88	20.83	22
20	256QAM	1	49	20.87	20.76	20.96	20.89	20.95	
20	256QAM	1	99	20.92	20.86	21.01	20.87	20.86	
20	256QAM	50	0	21.08	20.96	21.26	20.77	20.68	22
20	256QAM	50	24	21.07	20.88	21.02	20.78	20.74	
20	256QAM	50	50	20.96	20.80	21.14	20.82	20.72	
20	256QAM	100	0	21.08	20.89	21.01	20.73	20.68	
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	25.85	25.68	25.91	25.66	25.86	27.00
15	QPSK	1	37	25.71	25.50	25.72	25.78	25.68	
15	QPSK	1	74	25.75	25.44	25.68	25.74	25.69	
15	QPSK	36	0	24.70	24.52	24.94	24.64	24.64	26
15	QPSK	36	20	24.74	24.71	24.89	24.60	24.46	
15	QPSK	36	39	24.70	24.60	24.71	24.64	24.62	
15	QPSK	75	0	24.69	24.55	24.76	24.59	24.51	26
15	16QAM	1	0	24.09	24.02	24.24	24.18	24.00	
15	16QAM	1	37	24.15	24.09	24.00	24.10	24.09	
15	16QAM	1	74	24.07	24.01	24.08	24.19	24.15	25
15	16QAM	36	0	23.80	23.59	23.74	23.61	23.61	
15	16QAM	36	20	23.66	23.49	23.51	23.60	23.62	
15	16QAM	36	39	23.70	23.52	23.84	23.59	23.42	25
15	16QAM	75	0	23.55	23.58	23.71	23.51	23.50	
15	64QAM	1	0	23.69	23.60	23.66	23.68	23.59	
15	64QAM	1	37	23.59	23.46	23.56	23.59	23.62	25
15	64QAM	1	74	23.62	23.65	23.65	23.39	23.51	
15	64QAM	36	0	22.65	22.50	22.91	22.31	22.38	
15	64QAM	36	20	22.73	22.50	22.66	22.48	22.47	24
15	64QAM	36	39	22.66	22.54	22.91	22.42	22.36	
15	64QAM	75	0	22.58	22.52	22.73	22.33	22.22	
15	256QAM	1	0	20.76	20.82	20.92	20.77	20.66	22
15	256QAM	1	37	20.78	20.64	20.93	20.73	20.89	
15	256QAM	1	74	20.84	20.74	20.90	20.87	20.81	
15	256QAM	36	0	21.00	20.81	21.11	20.59	20.60	22
15	256QAM	36	20	20.88	20.79	21.01	20.61	20.62	
15	256QAM	36	39	20.77	20.67	20.98	20.82	20.60	



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15	256QAM	75	0	21.03	20.70	20.96	20.56	20.64	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.67	25.57	26.06	25.72	25.75	27.00
10	QPSK	1	25	25.65	25.58	25.73	25.72	25.62	
10	QPSK	1	49	25.71	25.47	25.69	25.72	25.64	
10	QPSK	25	0	24.71	24.70	24.79	24.64	24.74	26
10	QPSK	25	12	24.83	24.60	24.90	24.62	24.62	
10	QPSK	25	25	24.67	24.49	24.68	24.56	24.55	
10	QPSK	50	0	24.71	24.57	24.66	24.51	24.59	26
10	16QAM	1	0	24.00	24.18	24.27	24.00	24.13	
10	16QAM	1	25	24.16	24.16	24.02	24.11	24.11	
10	16QAM	1	49	24.06	24.13	24.02	24.03	24.14	25
10	16QAM	25	0	23.74	23.54	23.76	23.70	23.44	
10	16QAM	25	12	23.64	23.56	23.62	23.64	23.55	
10	16QAM	25	25	23.64	23.65	23.80	23.52	23.56	25
10	16QAM	50	0	23.61	23.61	23.54	23.52	23.47	
10	64QAM	1	0	23.68	23.51	23.71	23.61	23.43	
10	64QAM	1	25	23.52	23.44	23.60	23.56	23.67	25
10	64QAM	1	49	23.50	23.61	23.74	23.57	23.56	
10	64QAM	25	0	22.70	22.59	22.86	22.41	22.47	
10	64QAM	25	12	22.70	22.49	22.59	22.31	22.45	24
10	64QAM	25	25	22.51	22.38	22.77	22.50	22.29	
10	64QAM	50	0	22.75	22.57	22.63	22.32	22.38	
10	256QAM	1	0	20.82	20.82	21.05	20.69	20.82	22
10	256QAM	1	25	20.79	20.76	20.83	20.71	20.78	
10	256QAM	1	49	20.84	20.79	20.92	20.82	20.67	
10	256QAM	25	0	21.06	20.95	21.21	20.61	20.53	22
10	256QAM	25	12	20.97	20.68	20.86	20.70	20.63	
10	256QAM	25	25	20.81	20.74	20.97	20.68	20.72	
10	256QAM	50	0	20.90	20.81	20.93	20.66	20.64	
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	25.80	25.68	25.95	25.66	25.86	27.00
5	QPSK	1	12	25.70	25.58	25.75	25.73	25.75	
5	QPSK	1	24	25.60	25.44	25.64	25.73	25.62	
5	QPSK	12	0	24.69	24.72	24.85	24.60	24.54	26
5	QPSK	12	7	24.81	24.70	24.77	24.60	24.60	
5	QPSK	12	13	24.56	24.48	24.60	24.56	24.45	
5	QPSK	25	0	24.62	24.64	24.66	24.62	24.62	26
5	16QAM	1	0	24.10	24.19	24.26	24.13	24.13	
5	16QAM	1	12	24.12	24.08	24.06	24.19	24.10	
5	16QAM	1	24	24.16	24.15	24.10	24.17	24.14	25
5	16QAM	12	0	23.63	23.53	23.80	23.63	23.51	
5	16QAM	12	7	23.69	23.51	23.52	23.67	23.57	
5	16QAM	12	13	23.52	23.63	23.82	23.60	23.50	25
5	16QAM	25	0	23.70	23.66	23.55	23.46	23.50	
5	64QAM	1	0	23.67	23.49	23.71	23.62	23.55	
5	64QAM	1	12	23.60	23.44	23.57	23.42	23.51	25
5	64QAM	1	24	23.56	23.57	23.72	23.43	23.46	
5	64QAM	12	0	22.78	22.57	22.78	22.33	22.35	
5	64QAM	12	7	22.66	22.48	22.59	22.40	22.42	24
5	64QAM	12	13	22.58	22.38	22.75	22.49	22.25	
5	64QAM	25	0	22.69	22.42	22.60	22.34	22.40	
5	256QAM	1	0	20.88	20.66	21.00	20.68	20.72	22
5	256QAM	1	12	20.68	20.74	20.94	20.71	20.79	
5	256QAM	1	24	20.76	20.73	20.95	20.74	20.81	
5	256QAM	12	0	21.03	20.78	21.23	20.59	20.67	22
5	256QAM	12	7	20.87	20.83	20.88	20.62	20.69	
5	256QAM	12	13	20.92	20.75	21.06	20.79	20.72	
5	256QAM	25	0	21.03	20.70	20.91	20.67	20.61	



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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	21.56	21.64	21.67	21.66	21.48	21.9
20	QPSK	1	49	21.58	21.62	21.63	21.63	21.44	
20	QPSK	1	99	21.56	21.63	21.65	21.59	21.41	
20	QPSK	50	0	21.56	21.57	21.62	21.53	21.38	21.9
20	QPSK	50	24	21.55	21.54	21.60	21.52	21.37	
20	QPSK	50	50	21.55	21.57	21.58	21.51	21.33	
20	QPSK	100	0	21.53	21.54	21.60	21.55	21.33	21.9
20	16QAM	1	0	21.38	21.46	21.45	21.52	21.35	
20	16QAM	1	49	21.11	21.16	21.19	21.14	20.97	
20	16QAM	1	99	21.35	21.45	21.51	21.44	21.25	21.9
20	16QAM	50	0	21.58	21.61	21.64	21.57	21.43	
20	16QAM	50	24	21.56	21.58	21.63	21.57	21.39	
20	16QAM	50	50	21.56	21.60	21.63	21.57	21.40	21.9
20	16QAM	100	0	21.59	21.63	21.65	21.61	21.42	
20	64QAM	1	0	21.37	21.15	21.59	21.54	21.44	
20	64QAM	1	49	21.53	21.54	21.49	21.43	21.26	21.9
20	64QAM	1	99	21.38	21.46	21.22	21.17	21.03	
20	64QAM	50	0	21.55	21.60	21.62	21.57	21.43	
20	64QAM	50	24	21.55	21.60	21.63	21.56	21.42	21.9
20	64QAM	50	50	21.55	21.61	21.63	21.58	21.38	
20	64QAM	100	0	21.56	21.61	21.63	21.60	21.39	
20	256QAM	1	0	21.31	21.51	21.39	21.58	21.36	21.9
20	256QAM	1	49	21.10	21.19	21.33	21.19	21.34	
20	256QAM	1	99	21.20	21.11	21.28	21.26	20.95	
20	256QAM	50	0	21.03	20.99	21.05	20.95	20.81	21.9
20	256QAM	50	24	20.93	20.92	21.01	20.93	20.96	
20	256QAM	50	50	20.97	21.15	21.01	20.90	20.81	
20	256QAM	100	0	21.14	21.06	21.08	20.90	20.89	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	21.44	21.57	21.61	21.50	21.44	21.90
15	QPSK	1	37	21.46	21.47	21.50	21.61	21.35	
15	QPSK	1	74	21.38	21.48	21.45	21.58	21.28	
15	QPSK	36	0	21.43	21.55	21.46	21.43	21.24	21.9
15	QPSK	36	20	21.42	21.43	21.52	21.39	21.22	
15	QPSK	36	39	21.48	21.52	21.42	21.44	21.18	
15	QPSK	75	0	21.43	21.50	21.53	21.50	21.18	21.9
15	16QAM	1	0	21.35	21.29	21.35	21.39	21.28	
15	16QAM	1	37	21.01	21.07	21.10	21.07	21.03	
15	16QAM	1	74	21.18	21.41	21.34	21.42	21.09	21.9
15	16QAM	36	0	21.55	21.55	21.55	21.40	21.23	
15	16QAM	36	20	21.54	21.45	21.61	21.56	21.22	
15	16QAM	36	39	21.41	21.59	21.54	21.47	21.38	21.9
15	16QAM	75	0	21.45	21.58	21.65	21.49	21.22	
15	64QAM	1	0	21.22	21.04	21.45	21.37	21.24	
15	64QAM	1	37	21.48	21.45	21.35	21.42	21.21	21.9
15	64QAM	1	74	21.28	21.31	21.06	21.07	20.92	
15	64QAM	36	0	21.40	21.56	21.62	21.44	21.31	
15	64QAM	36	20	21.44	21.50	21.59	21.42	21.28	21.9
15	64QAM	36	39	21.40	21.43	21.51	21.41	21.38	
15	64QAM	75	0	21.38	21.43	21.60	21.54	21.27	
15	256QAM	1	0	21.30	21.34	21.28	21.49	21.16	21.9
15	256QAM	1	37	21.05	21.01	21.16	21.14	21.34	
15	256QAM	1	74	21.06	20.94	21.22	21.17	20.75	
15	256QAM	36	0	20.89	20.85	21.02	20.80	20.76	21.9
15	256QAM	36	20	20.79	20.92	20.88	20.93	20.77	
15	256QAM	36	39	20.89	20.99	20.91	20.81	20.75	



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15	256QAM	75	0	21.01	20.98	21.08	20.88	20.79	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.49	21.51	21.49	21.60	21.38	21.90
10	QPSK	1	25	21.57	21.57	21.54	21.61	21.38	
10	QPSK	1	49	21.37	21.60	21.59	21.54	21.31	
10	QPSK	25	0	21.45	21.46	21.49	21.48	21.20	21.9
10	QPSK	25	12	21.47	21.38	21.43	21.47	21.36	
10	QPSK	25	25	21.50	21.39	21.45	21.43	21.21	
10	QPSK	50	0	21.46	21.49	21.57	21.40	21.25	
10	16QAM	1	0	21.19	21.35	21.35	21.50	21.25	21.9
10	16QAM	1	25	20.94	21.06	21.06	21.11	21.02	
10	16QAM	1	49	21.15	21.40	21.48	21.37	21.11	
10	16QAM	25	0	21.56	21.42	21.51	21.50	21.32	21.9
10	16QAM	25	12	21.41	21.52	21.56	21.52	21.38	
10	16QAM	25	25	21.46	21.59	21.43	21.41	21.40	
10	16QAM	50	0	21.58	21.52	21.57	21.48	21.22	
10	64QAM	1	0	21.32	21.08	21.49	21.50	21.33	21.9
10	64QAM	1	25	21.53	21.42	21.36	21.31	21.23	
10	64QAM	1	49	21.23	21.42	21.20	21.03	21.05	
10	64QAM	25	0	21.51	21.48	21.62	21.52	21.26	21.9
10	64QAM	25	12	21.36	21.42	21.60	21.51	21.41	
10	64QAM	25	25	21.53	21.54	21.49	21.51	21.26	
10	64QAM	50	0	21.40	21.48	21.58	21.44	21.33	
10	256QAM	1	0	21.24	21.38	21.23	21.50	21.23	21.9
10	256QAM	1	25	20.90	21.08	21.28	21.08	21.34	
10	256QAM	1	49	21.18	20.94	21.17	21.20	20.81	
10	256QAM	25	0	20.97	20.80	20.98	20.95	20.71	21.9
10	256QAM	25	12	20.90	20.77	20.89	20.90	20.81	
10	256QAM	25	25	20.97	21.04	20.92	20.73	20.74	
10	256QAM	50	0	21.10	21.02	20.98	20.77	20.83	
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	21.54	21.47	21.58	21.66	21.36	21.90
5	QPSK	1	12	21.56	21.42	21.47	21.55	21.36	
5	QPSK	1	24	21.43	21.61	21.51	21.53	21.39	
5	QPSK	12	0	21.49	21.48	21.51	21.47	21.21	21.9
5	QPSK	12	7	21.50	21.41	21.41	21.49	21.33	
5	QPSK	12	13	21.45	21.43	21.50	21.41	21.30	
5	QPSK	25	0	21.46	21.46	21.49	21.55	21.33	
5	16QAM	1	0	21.33	21.34	21.35	21.35	21.17	21.9
5	16QAM	1	12	20.97	20.96	21.17	21.04	20.97	
5	16QAM	1	24	21.19	21.37	21.45	21.26	21.11	
5	16QAM	12	0	21.52	21.59	21.63	21.48	21.34	21.9
5	16QAM	12	7	21.50	21.52	21.63	21.53	21.38	
5	16QAM	12	13	21.48	21.59	21.58	21.54	21.39	
5	16QAM	25	0	21.39	21.45	21.61	21.50	21.24	
5	64QAM	1	0	21.22	21.00	21.43	21.39	21.34	21.9
5	64QAM	1	12	21.39	21.40	21.46	21.33	21.14	
5	64QAM	1	24	21.35	21.38	21.11	20.98	20.96	
5	64QAM	12	0	21.35	21.54	21.42	21.53	21.43	21.9
5	64QAM	12	7	21.36	21.40	21.63	21.52	21.31	
5	64QAM	12	13	21.53	21.59	21.55	21.45	21.27	
5	64QAM	25	0	21.49	21.56	21.46	21.47	21.27	
5	256QAM	1	0	21.24	21.36	21.36	21.46	21.28	21.9
5	256QAM	1	12	20.95	21.11	21.27	21.19	21.14	
5	256QAM	1	24	21.11	20.92	21.22	21.10	20.85	
5	256QAM	12	0	20.95	20.80	20.89	20.90	20.80	21.9
5	256QAM	12	7	20.93	20.73	20.96	20.81	20.77	
5	256QAM	12	13	20.78	20.99	20.99	20.90	20.79	
5	256QAM	25	0	21.10	21.02	21.01	20.80	20.79	



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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	21.54	21.59	21.46	21.35	21.19	22.4
20	QPSK	1	49	21.39	21.44	21.35	21.35	21.13	
20	QPSK	1	99	21.41	21.57	21.44	21.34	21.14	
20	QPSK	50	0	21.45	21.49	21.45	21.26	21.13	22.4
20	QPSK	50	24	21.41	21.48	21.38	21.15	21.18	
20	QPSK	50	50	21.36	21.42	21.31	21.16	21.13	
20	QPSK	100	0	21.42	21.45	21.44	21.23	21.07	22.4
20	16QAM	1	0	21.39	21.46	21.41	21.18	21.01	
20	16QAM	1	49	21.41	21.55	21.28	21.22	20.99	
20	16QAM	1	99	21.36	21.40	21.39	21.29	21.00	22.4
20	16QAM	50	0	21.51	21.48	21.35	21.17	21.02	
20	16QAM	50	24	21.45	21.53	21.31	21.15	21.06	
20	16QAM	50	50	21.45	21.50	21.43	21.28	21.13	22.4
20	16QAM	100	0	21.35	21.56	21.33	21.21	21.07	
20	64QAM	1	0	21.45	21.56	21.29	21.20	21.03	
20	64QAM	1	49	21.38	21.54	21.32	21.34	21.06	22.4
20	64QAM	1	99	21.45	21.52	21.26	21.34	21.11	
20	64QAM	50	0	21.38	21.46	21.26	21.23	20.99	
20	64QAM	50	24	21.53	21.58	21.30	21.26	21.18	22.4
20	64QAM	50	50	21.49	21.44	21.41	21.32	21.17	
20	64QAM	100	0	21.46	21.50	21.45	21.23	21.02	
20	256QAM	1	0	21.37	21.58	21.46	21.15	21.17	22
20	256QAM	1	49	21.39	21.46	21.31	21.28	21.14	
20	256QAM	1	99	21.34	21.57	21.45	21.24	21.10	
20	256QAM	50	0	21.48	21.50	21.37	21.32	21.01	22
20	256QAM	50	24	21.54	21.50	21.37	21.27	21.06	
20	256QAM	50	50	21.53	21.45	21.40	21.22	21.06	
20	256QAM	100	0	21.50	21.41	21.45	21.28	21.05	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	21.40	21.56	21.33	21.25	21.12	22.40
15	QPSK	1	37	21.19	21.28	21.20	21.22	20.95	
15	QPSK	1	74	21.39	21.37	21.30	21.23	21.11	
15	QPSK	36	0	21.27	21.34	21.45	21.18	21.01	22.4
15	QPSK	36	20	21.28	21.37	21.28	21.06	21.15	
15	QPSK	36	39	21.35	21.25	21.31	21.03	21.10	
15	QPSK	75	0	21.26	21.44	21.34	21.12	20.92	22.4
15	16QAM	1	0	21.39	21.31	21.23	21.15	21.01	
15	16QAM	1	37	21.29	21.54	21.18	21.14	20.82	
15	16QAM	1	74	21.36	21.20	21.22	21.19	21.00	22.4
15	16QAM	36	0	21.50	21.29	21.22	21.01	20.85	
15	16QAM	36	20	21.33	21.41	21.24	21.10	20.87	
15	16QAM	36	39	21.36	21.31	21.37	21.14	21.07	22.4
15	16QAM	75	0	21.27	21.54	21.29	21.20	21.02	
15	64QAM	1	0	21.26	21.40	21.23	21.13	20.93	
15	64QAM	1	37	21.37	21.46	21.14	21.17	20.90	22.4
15	64QAM	1	74	21.40	21.32	21.08	21.21	20.92	
15	64QAM	36	0	21.24	21.40	21.24	21.15	20.99	
15	64QAM	36	20	21.38	21.58	21.11	21.06	20.99	22.4
15	64QAM	36	39	21.36	21.37	21.21	21.26	21.07	
15	64QAM	75	0	21.34	21.37	21.32	21.20	20.88	
15	256QAM	1	0	21.29	21.51	21.35	21.03	21.00	22
15	256QAM	1	37	21.30	21.43	21.16	21.17	20.99	
15	256QAM	1	74	21.29	21.46	21.32	21.13	21.03	
15	256QAM	36	0	21.48	21.33	21.20	21.30	20.87	22
15	256QAM	36	20	21.48	21.36	21.25	21.16	20.90	
15	256QAM	36	39	21.45	21.44	21.39	21.07	21.05	



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15	256QAM	75	0	21.42	21.30	21.42	21.08	20.89	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.43	21.43	21.40	21.22	21.08	22.40
10	QPSK	1	25	21.33	21.27	21.30	21.27	21.10	
10	QPSK	1	49	21.26	21.43	21.44	21.24	21.04	
10	QPSK	25	0	21.43	21.46	21.42	21.20	20.99	22.4
10	QPSK	25	12	21.21	21.32	21.22	21.00	21.06	
10	QPSK	25	25	21.32	21.37	21.25	21.03	21.08	
10	QPSK	50	0	21.31	21.30	21.25	21.12	20.88	
10	16QAM	1	0	21.31	21.40	21.24	21.18	20.99	22.4
10	16QAM	1	25	21.29	21.49	21.15	21.11	20.85	
10	16QAM	1	49	21.24	21.20	21.38	21.27	20.93	
10	16QAM	25	0	21.35	21.32	21.15	21.17	20.95	22.4
10	16QAM	25	12	21.39	21.52	21.12	20.99	20.95	
10	16QAM	25	25	21.27	21.32	21.41	21.09	21.12	
10	16QAM	50	0	21.25	21.40	21.32	21.21	21.07	
10	64QAM	1	0	21.28	21.46	21.29	21.02	20.92	22.4
10	64QAM	1	25	21.19	21.39	21.29	21.17	20.93	
10	64QAM	1	49	21.45	21.44	21.07	21.33	20.91	
10	64QAM	25	0	21.35	21.30	21.22	21.15	20.97	22.4
10	64QAM	25	12	21.49	21.47	21.11	21.25	21.15	
10	64QAM	25	25	21.39	21.39	21.27	21.18	20.98	
10	64QAM	50	0	21.34	21.43	21.41	21.17	20.96	
10	256QAM	1	0	21.25	21.58	21.28	21.11	21.04	22
10	256QAM	1	25	21.39	21.30	21.15	21.21	21.00	
10	256QAM	1	49	21.24	21.43	21.36	21.16	21.10	
10	256QAM	25	0	21.40	21.31	21.22	21.28	20.82	22
10	256QAM	25	12	21.36	21.49	21.28	21.16	21.04	
10	256QAM	25	25	21.51	21.43	21.20	21.09	20.87	
10	256QAM	50	0	21.32	21.30	21.35	21.09	20.97	
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	21.38	21.49	21.30	21.21	21.01	22.40
5	QPSK	1	12	21.20	21.25	21.16	21.25	20.93	
5	QPSK	1	24	21.23	21.56	21.27	21.24	21.09	
5	QPSK	12	0	21.31	21.33	21.25	21.12	21.04	22.4
5	QPSK	12	7	21.36	21.36	21.19	20.98	21.04	
5	QPSK	12	13	21.21	21.33	21.21	21.02	21.07	
5	QPSK	25	0	21.41	21.25	21.35	21.13	20.87	
5	16QAM	1	0	21.22	21.34	21.34	21.15	20.91	22.4
5	16QAM	1	12	21.38	21.44	21.10	21.10	20.91	
5	16QAM	1	24	21.34	21.36	21.30	21.17	20.82	
5	16QAM	12	0	21.36	21.40	21.35	20.99	21.01	22.4
5	16QAM	12	7	21.40	21.50	21.22	21.11	20.87	
5	16QAM	12	13	21.25	21.49	21.30	21.25	20.96	
5	16QAM	25	0	21.17	21.52	21.24	21.08	21.00	
5	64QAM	1	0	21.45	21.50	21.21	21.05	20.91	22.4
5	64QAM	1	12	21.32	21.38	21.27	21.23	21.03	
5	64QAM	1	24	21.38	21.36	21.15	21.28	20.99	
5	64QAM	12	0	21.29	21.27	21.06	21.15	20.85	22.4
5	64QAM	12	7	21.49	21.55	21.14	21.23	21.17	
5	64QAM	12	13	21.29	21.43	21.37	21.28	21.07	
5	64QAM	25	0	21.36	21.36	21.33	21.20	21.01	
5	256QAM	1	0	21.23	21.47	21.34	20.95	21.04	22
5	256QAM	1	12	21.36	21.32	21.12	21.14	21.14	
5	256QAM	1	24	21.20	21.47	21.29	21.09	20.98	
5	256QAM	12	0	21.31	21.31	21.23	21.30	20.92	22
5	256QAM	12	7	21.51	21.45	21.36	21.22	20.98	
5	256QAM	12	13	21.45	21.37	21.20	21.03	20.92	
5	256QAM	25	0	21.30	21.27	21.45	21.23	20.95	



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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	24.30	24.31	24.29	24.24	24.20	24.6
20	QPSK	1	49	24.26	24.24	24.21	24.17	24.15	
20	QPSK	1	99	24.25	24.25	24.23	24.13	24.10	
20	QPSK	50	0	24.20	24.21	24.12	24.07	24.04	24.6
20	QPSK	50	24	24.18	24.16	24.11	24.05	24.02	
20	QPSK	50	50	24.18	24.15	24.10	24.05	24.00	
20	QPSK	100	0	24.20	24.20	24.08	24.08	23.99	24.6
20	16QAM	1	0	24.03	24.23	24.20	24.19	24.00	
20	16QAM	1	49	23.82	23.82	23.86	23.82	23.87	
20	16QAM	1	99	24.03	24.09	24.04	23.95	23.92	24.6
20	16QAM	50	0	23.74	23.72	23.66	23.60	23.54	
20	16QAM	50	24	23.71	23.68	23.63	23.59	23.56	
20	16QAM	50	50	23.72	23.68	23.66	23.55	23.54	24.6
20	16QAM	100	0	23.75	23.70	23.64	23.57	23.56	
20	64QAM	1	0	23.83	23.80	23.78	23.77	23.73	
20	64QAM	1	49	23.82	23.80	23.77	23.74	23.84	24.6
20	64QAM	1	99	23.81	23.83	23.76	23.69	23.70	
20	64QAM	50	0	23.21	23.16	23.12	23.08	23.05	
20	64QAM	50	24	23.21	23.17	23.11	23.07	23.04	24
20	64QAM	50	50	23.19	23.16	23.12	23.04	23.06	
20	64QAM	100	0	23.14	23.09	23.07	23.03	22.99	
20	256QAM	1	0	21.45	21.12	21.18	21.22	21.31	22
20	256QAM	1	49	21.42	21.21	21.17	21.16	21.00	
20	256QAM	1	99	21.51	21.29	21.40	21.28	21.14	
20	256QAM	50	0	21.40	21.50	21.45	21.23	21.37	22
20	256QAM	50	24	21.40	21.38	21.42	21.48	21.38	
20	256QAM	50	50	21.44	21.41	21.53	21.51	21.33	
20	256QAM	100	0	21.57	21.31	21.39	21.45	21.35	
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	24.30	24.28	24.09	24.19	24.01	24.60
15	QPSK	1	37	24.24	24.10	24.13	24.14	24.12	
15	QPSK	1	74	24.05	24.13	24.06	24.01	23.95	
15	QPSK	36	0	24.19	24.04	23.93	23.97	23.85	24.6
15	QPSK	36	20	24.18	24.08	24.07	23.89	23.97	
15	QPSK	36	39	24.08	23.96	23.93	24.01	23.94	
15	QPSK	75	0	24.20	24.10	23.98	23.95	23.93	24.6
15	16QAM	1	0	23.99	24.20	24.06	24.01	23.85	
15	16QAM	1	37	23.63	23.77	23.69	23.72	23.68	
15	16QAM	1	74	23.86	23.99	24.02	23.80	23.72	24.6
15	16QAM	36	0	23.62	23.69	23.53	23.46	23.41	
15	16QAM	36	20	23.52	23.64	23.52	23.40	23.47	
15	16QAM	36	39	23.55	23.67	23.53	23.43	23.47	24.6
15	16QAM	75	0	23.61	23.53	23.54	23.43	23.41	
15	64QAM	1	0	23.78	23.66	23.65	23.77	23.67	
15	64QAM	1	37	23.82	23.79	23.69	23.69	23.71	24.6
15	64QAM	1	74	23.69	23.79	23.71	23.65	23.63	
15	64QAM	36	0	23.08	23.01	22.99	23.01	22.98	
15	64QAM	36	20	23.02	23.17	23.10	22.96	22.96	24
15	64QAM	36	39	23.06	23.01	23.06	22.99	23.05	
15	64QAM	75	0	23.14	22.99	23.01	22.85	22.82	
15	256QAM	1	0	21.33	21.02	21.01	21.17	21.19	22
15	256QAM	1	37	21.23	21.17	21.04	21.12	20.93	
15	256QAM	1	74	21.49	21.18	21.36	21.25	21.14	
15	256QAM	36	0	21.22	21.49	21.41	21.11	21.29	22
15	256QAM	36	20	21.24	21.25	21.23	21.38	21.18	
15	256QAM	36	39	21.27	21.29	21.35	21.32	21.16	



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Report No. : FA3D2001D

15	256QAM	75	0	21.46	21.15	21.26	21.40	21.15	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.26	24.28	24.28	24.06	24.20	24.60
10	QPSK	1	25	24.24	24.04	24.20	24.10	23.95	
10	QPSK	1	49	24.20	24.25	24.10	24.01	24.02	
10	QPSK	25	0	24.20	24.02	24.02	23.97	23.94	24.6
10	QPSK	25	12	24.18	24.10	24.06	23.90	23.89	
10	QPSK	25	25	24.08	24.03	23.93	23.95	23.91	
10	QPSK	50	0	24.09	24.09	23.91	24.08	23.95	
10	16QAM	1	0	23.89	24.21	24.05	24.03	23.81	24.6
10	16QAM	1	25	23.79	23.82	23.66	23.70	23.82	
10	16QAM	1	49	23.88	24.05	23.84	23.85	23.73	
10	16QAM	25	0	23.68	23.64	23.55	23.60	23.54	24.6
10	16QAM	25	12	23.57	23.64	23.44	23.40	23.56	
10	16QAM	25	25	23.55	23.48	23.61	23.50	23.34	
10	16QAM	50	0	23.62	23.70	23.63	23.39	23.37	
10	64QAM	1	0	23.75	23.60	23.60	23.57	23.61	24.6
10	64QAM	1	25	23.70	23.64	23.75	23.54	23.83	
10	64QAM	1	49	23.68	23.72	23.66	23.64	23.65	
10	64QAM	25	0	23.02	22.96	23.08	22.95	22.90	24
10	64QAM	25	12	23.14	22.98	22.98	23.03	22.88	
10	64QAM	25	25	23.15	23.10	22.94	22.92	23.00	
10	64QAM	50	0	22.95	23.08	23.05	23.03	22.82	
10	256QAM	1	0	21.30	20.99	21.07	21.04	21.17	22
10	256QAM	1	25	21.41	21.08	21.11	21.12	20.88	
10	256QAM	1	49	21.32	21.24	21.40	21.20	21.03	
10	256QAM	25	0	21.35	21.35	21.43	21.19	21.23	22
10	256QAM	25	12	21.30	21.35	21.28	21.43	21.37	
10	256QAM	25	25	21.29	21.27	21.49	21.43	21.29	
10	256QAM	50	0	21.40	21.14	21.20	21.42	21.26	
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	24.19	24.18	24.16	24.07	24.06	24.60
5	QPSK	1	12	24.12	24.07	24.11	24.11	23.97	
5	QPSK	1	24	24.18	24.06	24.18	23.98	23.92	
5	QPSK	12	0	24.13	24.05	24.06	23.92	23.95	24.6
5	QPSK	12	7	24.08	24.10	23.92	23.86	23.92	
5	QPSK	12	13	24.14	23.96	23.99	24.03	23.94	
5	QPSK	25	0	24.08	24.04	23.91	23.95	23.95	
5	16QAM	1	0	23.95	24.15	24.17	23.99	23.81	24.6
5	16QAM	1	12	23.63	23.65	23.76	23.62	23.87	
5	16QAM	1	24	23.99	23.95	23.99	23.90	23.73	
5	16QAM	12	0	23.63	23.72	23.47	23.42	23.46	24.6
5	16QAM	12	7	23.69	23.56	23.58	23.49	23.44	
5	16QAM	12	13	23.52	23.49	23.61	23.40	23.48	
5	16QAM	25	0	23.71	23.68	23.64	23.46	23.42	
5	64QAM	1	0	23.70	23.78	23.61	23.70	23.73	24.6
5	64QAM	1	12	23.75	23.62	23.71	23.67	23.80	
5	64QAM	1	24	23.72	23.65	23.56	23.63	23.66	
5	64QAM	12	0	23.17	22.98	22.95	22.99	22.98	24
5	64QAM	12	7	23.13	23.10	23.08	23.05	22.97	
5	64QAM	12	13	23.09	23.01	23.10	22.96	22.97	
5	64QAM	25	0	22.94	23.01	23.05	23.03	22.97	
5	256QAM	1	0	21.41	20.97	21.13	21.10	21.29	22
5	256QAM	1	12	21.35	21.01	20.99	21.01	20.91	
5	256QAM	1	24	21.38	21.15	21.39	21.12	21.08	
5	256QAM	12	0	21.22	21.34	21.25	21.20	21.36	22
5	256QAM	12	7	21.39	21.27	21.24	21.44	21.27	
5	256QAM	12	13	21.25	21.26	21.53	21.46	21.16	
5	256QAM	25	0	21.38	21.22	21.28	21.29	21.19	



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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	24.27	24.16	24.48	24.28	24.26	25.1
20	QPSK	1	49	24.20	24.13	24.38	24.21	24.21	
20	QPSK	1	99	24.26	24.09	24.20	24.25	24.25	
20	QPSK	50	0	24.28	24.19	24.35	24.18	24.16	25.1
20	QPSK	50	24	24.23	24.14	24.33	24.14	24.14	
20	QPSK	50	50	24.24	24.11	24.14	24.14	24.06	
20	QPSK	100	0	24.14	24.19	24.29	24.17	24.02	25.1
20	16QAM	1	0	24.28	23.99	24.15	24.14	23.96	
20	16QAM	1	49	24.08	24.01	24.29	23.92	24.17	
20	16QAM	1	99	24.11	24.05	24.22	23.92	24.06	25
20	16QAM	50	0	23.62	23.77	23.95	23.55	23.55	
20	16QAM	50	24	23.88	23.41	23.73	23.50	23.75	
20	16QAM	50	50	23.51	23.80	23.77	23.59	23.55	25
20	16QAM	100	0	23.74	23.74	23.53	23.53	23.77	
20	64QAM	1	0	23.69	23.63	23.68	23.88	23.79	
20	64QAM	1	49	23.82	23.62	23.68	23.78	23.80	24
20	64QAM	1	99	23.73	23.61	23.77	23.72	23.46	
20	64QAM	50	0	22.80	22.59	22.93	22.49	22.45	
20	64QAM	50	24	22.61	22.71	22.62	22.59	22.46	22
20	64QAM	50	50	22.76	22.54	22.76	22.65	22.43	
20	64QAM	100	0	22.91	22.66	22.93	22.34	22.28	
20	256QAM	1	0	20.76	20.88	21.00	20.78	20.89	22
20	256QAM	1	49	20.74	20.83	20.79	20.79	20.91	
20	256QAM	1	99	20.77	21.00	20.96	20.97	20.70	
20	256QAM	50	0	20.93	20.78	21.17	20.66	20.83	22
20	256QAM	50	24	21.22	20.81	21.12	20.96	20.73	
20	256QAM	50	50	20.83	20.87	21.12	20.95	20.79	
20	256QAM	100	0	20.92	21.04	21.00	20.79	20.49	
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	24.35	24.11	24.31	24.16	24.34	25.10
15	QPSK	1	37	24.20	23.93	24.17	24.28	24.11	
15	QPSK	1	74	24.25	24.07	24.11	24.19	24.11	
15	QPSK	36	0	24.13	23.94	24.38	24.05	24.09	25.1
15	QPSK	36	20	24.24	24.18	24.36	24.10	23.95	
15	QPSK	36	39	24.14	24.01	24.14	24.06	24.09	
15	QPSK	75	0	24.16	24.00	24.23	24.04	23.95	25.1
15	16QAM	1	0	24.22	23.95	24.11	24.21	23.92	
15	16QAM	1	37	24.11	23.98	24.07	24.19	24.28	
15	16QAM	1	74	23.97	24.14	24.09	24.08	24.02	25
15	16QAM	36	0	23.99	23.55	23.89	23.61	23.58	
15	16QAM	36	20	23.81	23.39	23.71	23.80	23.72	
15	16QAM	36	39	23.90	23.47	23.65	23.77	23.58	25
15	16QAM	75	0	23.70	23.58	23.59	23.57	23.57	
15	64QAM	1	0	23.72	23.42	23.71	23.51	23.47	
15	64QAM	1	37	23.56	23.58	23.59	23.70	23.60	24
15	64QAM	1	74	23.70	23.52	23.60	23.52	23.64	
15	64QAM	36	0	22.77	22.67	22.81	22.42	22.36	
15	64QAM	36	20	22.90	22.44	22.66	22.46	22.51	22
15	64QAM	36	39	22.73	22.71	22.81	22.46	22.53	
15	64QAM	75	0	22.77	22.62	22.67	22.44	22.31	
15	256QAM	1	0	20.93	20.86	20.81	20.58	20.78	22
15	256QAM	1	37	20.88	20.67	20.73	20.64	20.98	
15	256QAM	1	74	20.69	20.87	20.98	20.73	20.77	
15	256QAM	36	0	21.20	20.82	20.91	20.77	20.79	22
15	256QAM	36	20	21.05	20.81	20.99	20.55	20.75	
15	256QAM	36	39	20.80	20.76	20.85	20.98	20.68	



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15	256QAM	75	0	21.10	20.50	20.94	20.63	20.77	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.12	24.07	24.25	24.18	24.17	25.10
10	QPSK	1	25	24.07	24.04	24.14	24.19	24.07	
10	QPSK	1	49	24.15	24.09	24.11	24.21	24.13	
10	QPSK	25	0	24.20	24.14	24.22	24.11	24.14	25.1
10	QPSK	25	12	24.25	24.07	24.36	24.08	24.04	
10	QPSK	25	25	24.08	23.94	24.16	23.99	23.99	
10	QPSK	50	0	24.13	23.97	24.11	23.93	24.02	25.1
10	16QAM	1	0	23.90	24.34	24.30	24.16	24.29	
10	16QAM	1	25	24.00	24.10	24.21	24.13	24.16	
10	16QAM	1	49	23.94	24.15	24.17	23.90	24.13	25
10	16QAM	25	0	23.82	23.61	23.90	23.64	23.54	
10	16QAM	25	12	23.82	23.65	23.62	23.77	23.51	
10	16QAM	25	25	23.70	23.64	23.72	23.38	23.61	25
10	16QAM	50	0	23.49	23.66	23.74	23.34	23.49	
10	64QAM	1	0	23.61	23.48	23.80	23.44	23.42	
10	64QAM	1	25	23.46	23.57	23.79	23.70	23.87	25
10	64QAM	1	49	23.51	23.61	23.68	23.67	23.74	
10	64QAM	25	0	22.81	22.47	23.04	22.27	22.42	
10	64QAM	25	12	22.79	22.61	22.43	22.29	22.28	24
10	64QAM	25	25	22.58	22.31	22.92	22.60	22.46	
10	64QAM	50	0	22.76	22.59	22.53	22.35	22.58	
10	256QAM	1	0	20.79	20.82	21.13	20.84	20.79	22
10	256QAM	1	25	20.61	20.83	20.80	20.68	20.76	
10	256QAM	1	49	20.98	20.93	21.01	20.86	20.62	
10	256QAM	25	0	21.26	21.07	21.26	20.79	20.51	22
10	256QAM	25	12	20.98	20.86	20.84	20.66	20.69	
10	256QAM	25	25	20.89	20.75	21.01	20.55	20.54	
10	256QAM	50	0	20.92	20.81	20.91	20.82	20.45	
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	24.23	24.10	24.41	24.08	24.34	25.10
5	QPSK	1	12	24.20	24.05	24.16	24.19	24.19	
5	QPSK	1	24	24.02	23.94	24.12	24.21	24.09	
5	QPSK	12	0	24.17	24.21	24.33	24.07	24.02	25.1
5	QPSK	12	7	24.21	24.10	24.27	24.10	24.03	
5	QPSK	12	13	24.05	23.98	24.04	23.97	23.93	
5	QPSK	25	0	24.05	24.06	24.07	24.05	24.02	25.1
5	16QAM	1	0	24.24	24.11	24.26	24.20	24.11	
5	16QAM	1	12	24.20	23.94	23.97	24.25	23.93	
5	16QAM	1	24	24.30	24.06	24.05	24.00	23.97	25
5	16QAM	12	0	23.44	23.36	23.61	23.64	23.40	
5	16QAM	12	7	23.57	23.71	23.38	23.60	23.38	
5	16QAM	12	13	23.64	23.58	23.67	23.66	23.30	25
5	16QAM	25	0	23.87	23.72	23.42	23.47	23.65	
5	64QAM	1	0	23.52	23.56	23.76	23.73	23.54	
5	64QAM	1	12	23.60	23.37	23.63	23.34	23.38	25
5	64QAM	1	24	23.72	23.76	23.71	23.28	23.54	
5	64QAM	12	0	22.74	22.37	22.72	22.30	22.37	
5	64QAM	12	7	22.77	22.62	22.51	22.31	22.30	24
5	64QAM	12	13	22.38	22.38	22.72	22.52	22.05	
5	64QAM	25	0	22.88	22.50	22.77	22.14	22.51	
5	256QAM	1	0	20.79	20.47	20.98	20.69	20.61	22
5	256QAM	1	12	20.72	20.75	21.09	20.87	20.80	
5	256QAM	1	24	20.93	20.81	20.97	20.77	20.79	
5	256QAM	12	0	21.16	20.67	21.06	20.70	20.78	22
5	256QAM	12	7	20.87	20.86	20.85	20.78	20.78	
5	256QAM	12	13	20.87	20.89	21.07	20.96	20.58	
5	256QAM	25	0	20.93	20.86	20.94	20.61	20.65	



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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	21.56	21.64	21.67	21.66	21.48	22.7
20	QPSK	1	49	21.58	21.62	21.63	21.63	21.44	
20	QPSK	1	99	21.56	21.63	21.65	21.59	21.41	
20	QPSK	50	0	21.56	21.57	21.62	21.53	21.38	22.7
20	QPSK	50	24	21.55	21.54	21.60	21.52	21.37	
20	QPSK	50	50	21.55	21.57	21.58	21.51	21.33	
20	QPSK	100	0	21.53	21.54	21.60	21.55	21.33	22.7
20	16QAM	1	0	21.38	21.46	21.45	21.52	21.35	
20	16QAM	1	49	21.11	21.16	21.19	21.14	20.97	
20	16QAM	1	99	21.35	21.45	21.51	21.44	21.25	22.7
20	16QAM	50	0	21.58	21.61	21.64	21.57	21.43	
20	16QAM	50	24	21.56	21.58	21.63	21.57	21.39	
20	16QAM	50	50	21.56	21.60	21.63	21.57	21.40	22.7
20	16QAM	100	0	21.59	21.63	21.65	21.61	21.42	
20	64QAM	1	0	21.37	21.15	21.59	21.54	21.44	
20	64QAM	1	49	21.53	21.54	21.49	21.43	21.26	22.7
20	64QAM	1	99	21.38	21.46	21.22	21.17	21.03	
20	64QAM	50	0	21.55	21.60	21.62	21.57	21.43	
20	64QAM	50	24	21.55	21.60	21.63	21.56	21.42	22.7
20	64QAM	50	50	21.55	21.61	21.63	21.58	21.38	
20	64QAM	100	0	21.56	21.61	21.63	21.60	21.39	
20	256QAM	1	0	21.31	21.51	21.39	21.58	21.36	22
20	256QAM	1	49	21.10	21.19	21.33	21.19	21.34	
20	256QAM	1	99	21.20	21.11	21.28	21.26	20.95	
20	256QAM	50	0	21.03	20.99	21.05	20.95	20.81	22
20	256QAM	50	24	20.93	20.92	21.01	20.93	20.96	
20	256QAM	50	50	20.97	21.15	21.01	20.90	20.81	
20	256QAM	100	0	21.14	21.06	21.08	20.90	20.89	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	21.44	21.57	21.61	21.50	21.44	22.70
15	QPSK	1	37	21.46	21.47	21.50	21.61	21.35	
15	QPSK	1	74	21.38	21.48	21.45	21.58	21.28	
15	QPSK	36	0	21.43	21.55	21.46	21.43	21.24	22.7
15	QPSK	36	20	21.42	21.43	21.52	21.39	21.22	
15	QPSK	36	39	21.48	21.52	21.42	21.44	21.18	
15	QPSK	75	0	21.43	21.50	21.53	21.50	21.18	22.7
15	16QAM	1	0	21.35	21.29	21.35	21.39	21.28	
15	16QAM	1	37	21.01	21.07	21.10	21.07	21.03	
15	16QAM	1	74	21.18	21.41	21.34	21.42	21.09	22.7
15	16QAM	36	0	21.55	21.55	21.55	21.40	21.23	
15	16QAM	36	20	21.54	21.45	21.61	21.56	21.22	
15	16QAM	36	39	21.41	21.59	21.54	21.47	21.38	22.7
15	16QAM	75	0	21.45	21.58	21.65	21.49	21.22	
15	64QAM	1	0	21.22	21.04	21.45	21.37	21.24	
15	64QAM	1	37	21.48	21.45	21.35	21.42	21.21	22.7
15	64QAM	1	74	21.28	21.31	21.06	21.07	20.92	
15	64QAM	36	0	21.40	21.56	21.62	21.44	21.31	
15	64QAM	36	20	21.44	21.50	21.59	21.42	21.28	22.7
15	64QAM	36	39	21.40	21.43	21.51	21.41	21.38	
15	64QAM	75	0	21.38	21.43	21.60	21.54	21.27	
15	256QAM	1	0	21.30	21.34	21.28	21.49	21.16	22
15	256QAM	1	37	21.05	21.01	21.16	21.14	21.34	
15	256QAM	1	74	21.06	20.94	21.22	21.17	20.75	
15	256QAM	36	0	20.89	20.85	21.02	20.80	20.76	22
15	256QAM	36	20	20.79	20.92	20.88	20.93	20.77	
15	256QAM	36	39	20.89	20.99	20.91	20.81	20.75	



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15	256QAM	75	0	21.01	20.98	21.08	20.88	20.79	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.49	21.51	21.49	21.60	21.38	22.70
10	QPSK	1	25	21.57	21.57	21.54	21.61	21.38	
10	QPSK	1	49	21.37	21.60	21.59	21.54	21.31	
10	QPSK	25	0	21.45	21.46	21.49	21.48	21.20	22.7
10	QPSK	25	12	21.47	21.38	21.43	21.47	21.36	
10	QPSK	25	25	21.50	21.39	21.45	21.43	21.21	
10	QPSK	50	0	21.46	21.49	21.57	21.40	21.25	
10	16QAM	1	0	21.19	21.35	21.35	21.50	21.25	22.7
10	16QAM	1	25	20.94	21.06	21.06	21.11	21.02	
10	16QAM	1	49	21.15	21.40	21.48	21.37	21.11	
10	16QAM	25	0	21.56	21.42	21.51	21.50	21.32	22.7
10	16QAM	25	12	21.41	21.52	21.56	21.52	21.38	
10	16QAM	25	25	21.46	21.59	21.43	21.41	21.40	
10	16QAM	50	0	21.58	21.52	21.57	21.48	21.22	
10	64QAM	1	0	21.32	21.08	21.49	21.50	21.33	22.7
10	64QAM	1	25	21.53	21.42	21.36	21.31	21.23	
10	64QAM	1	49	21.23	21.42	21.20	21.03	21.05	
10	64QAM	25	0	21.51	21.48	21.62	21.52	21.26	22.7
10	64QAM	25	12	21.36	21.42	21.60	21.51	21.41	
10	64QAM	25	25	21.53	21.54	21.49	21.51	21.26	
10	64QAM	50	0	21.40	21.48	21.58	21.44	21.33	
10	256QAM	1	0	21.24	21.38	21.23	21.50	21.23	22
10	256QAM	1	25	20.90	21.08	21.28	21.08	21.34	
10	256QAM	1	49	21.18	20.94	21.17	21.20	20.81	
10	256QAM	25	0	20.97	20.80	20.98	20.95	20.71	22
10	256QAM	25	12	20.90	20.77	20.89	20.90	20.81	
10	256QAM	25	25	20.97	21.04	20.92	20.73	20.74	
10	256QAM	50	0	21.10	21.02	20.98	20.77	20.83	
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	21.54	21.47	21.58	21.66	21.36	22.70
5	QPSK	1	12	21.56	21.42	21.47	21.55	21.36	
5	QPSK	1	24	21.43	21.61	21.51	21.53	21.39	
5	QPSK	12	0	21.49	21.48	21.51	21.47	21.21	22.7
5	QPSK	12	7	21.50	21.41	21.41	21.49	21.33	
5	QPSK	12	13	21.45	21.43	21.50	21.41	21.30	
5	QPSK	25	0	21.46	21.46	21.49	21.55	21.33	
5	16QAM	1	0	21.33	21.34	21.35	21.35	21.17	22.7
5	16QAM	1	12	20.97	20.96	21.17	21.04	20.97	
5	16QAM	1	24	21.19	21.37	21.45	21.26	21.11	
5	16QAM	12	0	21.52	21.59	21.63	21.48	21.34	22.7
5	16QAM	12	7	21.50	21.52	21.63	21.53	21.38	
5	16QAM	12	13	21.48	21.59	21.58	21.54	21.39	
5	16QAM	25	0	21.39	21.45	21.61	21.50	21.24	
5	64QAM	1	0	21.22	21.00	21.43	21.39	21.34	22.7
5	64QAM	1	12	21.39	21.40	21.46	21.33	21.14	
5	64QAM	1	24	21.35	21.38	21.11	20.98	20.96	
5	64QAM	12	0	21.35	21.54	21.42	21.53	21.43	22.7
5	64QAM	12	7	21.36	21.40	21.63	21.52	21.31	
5	64QAM	12	13	21.53	21.59	21.55	21.45	21.27	
5	64QAM	25	0	21.49	21.56	21.46	21.47	21.27	
5	256QAM	1	0	21.24	21.36	21.36	21.46	21.28	22
5	256QAM	1	12	20.95	21.11	21.27	21.19	21.14	
5	256QAM	1	24	21.11	20.92	21.22	21.10	20.85	
5	256QAM	12	0	20.95	20.80	20.89	20.90	20.80	22
5	256QAM	12	7	20.93	20.73	20.96	20.81	20.77	
5	256QAM	12	13	20.78	20.99	20.99	20.90	20.79	
5	256QAM	25	0	21.10	21.02	21.01	20.80	20.79	



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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	23.73	23.81	23.64	23.58	23.34	25.2
20	QPSK	1	49	23.73	23.73	23.47	23.53	23.32	
20	QPSK	1	99	23.67	23.70	23.62	23.48	23.29	
20	QPSK	50	0	23.73	23.76	23.69	23.50	23.28	25.2
20	QPSK	50	24	23.70	23.70	23.63	23.36	23.25	
20	QPSK	50	50	23.53	23.53	23.59	23.38	23.25	
20	QPSK	100	0	23.54	23.65	23.60	23.40	23.38	25.2
20	16QAM	1	0	23.63	23.28	23.42	23.53	23.39	
20	16QAM	1	49	23.24	23.34	23.44	23.34	23.21	
20	16QAM	1	99	23.35	23.33	23.58	23.37	23.24	25
20	16QAM	50	0	23.14	23.18	23.32	23.11	23.14	
20	16QAM	50	24	23.21	23.06	23.18	23.19	23.15	
20	16QAM	50	50	23.23	23.24	23.33	23.17	23.16	25
20	16QAM	100	0	23.22	23.19	23.63	23.19	23.19	
20	64QAM	1	0	23.22	23.30	23.09	23.11	23.11	
20	64QAM	1	49	23.39	23.50	23.10	23.13	23.16	24
20	64QAM	1	99	23.19	23.29	23.10	23.08	23.14	
20	64QAM	50	0	23.29	23.20	23.05	23.00	22.89	
20	64QAM	50	24	23.23	23.30	23.03	23.05	22.79	22
20	64QAM	50	50	23.14	23.27	22.97	23.13	22.87	
20	64QAM	100	0	23.30	23.24	23.12	23.14	22.80	
20	256QAM	1	0	21.59	21.63	21.43	21.33	21.15	22
20	256QAM	1	49	21.76	21.81	21.54	21.59	21.36	
20	256QAM	1	99	21.61	21.64	21.48	21.41	21.35	
20	256QAM	50	0	21.57	21.56	21.14	21.32	21.19	22
20	256QAM	50	24	21.55	21.40	21.39	21.30	21.14	
20	256QAM	50	50	21.41	21.60	21.22	21.22	21.16	
20	256QAM	100	0	21.44	21.42	21.37	21.29	21.21	
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	23.57	23.70	23.62	23.48	23.27	25.20
15	QPSK	1	37	23.53	23.70	23.38	23.38	23.25	
15	QPSK	1	74	23.53	23.59	23.59	23.44	23.23	
15	QPSK	36	0	23.52	23.49	23.69	23.29	23.47	25.2
15	QPSK	36	20	23.44	23.61	23.51	23.26	23.49	
15	QPSK	36	39	23.41	23.58	23.43	23.33	23.44	
15	QPSK	75	0	23.35	23.60	23.52	23.30	23.30	25.2
15	16QAM	1	0	23.46	23.34	23.24	23.52	23.42	
15	16QAM	1	37	23.35	23.37	23.23	23.30	23.39	
15	16QAM	1	74	23.33	23.39	23.38	23.38	23.25	25
15	16QAM	36	0	23.10	23.10	23.01	23.10	23.18	
15	16QAM	36	20	23.13	23.15	23.01	23.19	23.19	
15	16QAM	36	39	23.18	23.16	23.28	23.13	23.05	25
15	16QAM	75	0	23.18	23.19	23.37	23.00	23.02	
15	64QAM	1	0	23.13	23.24	23.13	23.17	23.18	
15	64QAM	1	37	23.11	23.50	23.19	23.04	23.08	24
15	64QAM	1	74	23.15	23.05	23.20	23.13	23.02	
15	64QAM	36	0	23.09	23.28	22.75	23.09	22.89	
15	64QAM	36	20	22.96	23.28	22.92	23.08	22.71	22
15	64QAM	36	39	23.14	23.12	22.98	22.95	22.68	
15	64QAM	75	0	23.26	23.07	22.82	23.13	22.74	
15	256QAM	1	0	21.51	21.57	21.42	21.31	21.03	22
15	256QAM	1	37	21.49	21.61	21.31	21.28	21.22	
15	256QAM	1	74	21.27	21.58	21.29	21.46	21.12	
15	256QAM	36	0	21.26	21.42	21.06	21.23	20.90	22
15	256QAM	36	20	21.46	21.35	21.20	21.27	21.00	
15	256QAM	36	39	21.41	21.36	21.11	21.29	21.09	



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15	256QAM	75	0	21.43	21.41	21.15	21.17	20.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.71	23.66	23.47	23.52	23.31	25.20
10	QPSK	1	25	23.63	23.59	23.44	23.33	23.20	
10	QPSK	1	49	23.66	23.53	23.50	23.40	23.34	
10	QPSK	25	0	23.64	23.41	23.69	23.42	23.26	25.2
10	QPSK	25	12	23.44	23.60	23.43	23.46	23.28	
10	QPSK	25	25	23.48	23.52	23.49	23.39	23.21	
10	QPSK	50	0	23.39	23.49	23.67	23.30	23.27	25.2
10	16QAM	1	0	23.61	23.20	23.28	23.24	23.36	
10	16QAM	1	25	23.20	23.36	23.33	23.33	23.27	
10	16QAM	1	49	23.28	23.34	23.31	23.25	23.30	25
10	16QAM	25	0	23.15	23.15	23.12	23.20	23.19	
10	16QAM	25	12	23.11	23.09	23.02	23.19	23.16	
10	16QAM	25	25	23.07	23.08	23.33	23.15	23.15	25
10	16QAM	50	0	23.09	23.25	23.45	23.06	23.15	
10	64QAM	1	0	23.04	23.21	23.19	23.13	23.11	
10	64QAM	1	25	23.30	23.51	23.16	23.04	23.03	25
10	64QAM	1	49	23.06	23.12	23.13	23.15	23.04	
10	64QAM	25	0	23.02	23.01	23.02	23.00	22.71	
10	64QAM	25	12	23.07	23.06	22.81	22.95	22.72	24
10	64QAM	25	25	23.21	23.03	22.87	22.98	22.89	
10	64QAM	50	0	23.17	23.08	23.06	22.95	22.78	
10	256QAM	1	0	21.31	21.55	21.35	21.20	20.95	22
10	256QAM	1	25	21.53	21.58	21.20	21.46	21.32	
10	256QAM	1	49	21.50	21.73	21.32	21.28	21.13	
10	256QAM	25	0	21.35	21.42	21.19	21.27	21.00	22
10	256QAM	25	12	21.27	21.44	21.24	21.15	20.90	
10	256QAM	25	25	21.40	21.38	21.15	21.33	21.10	
10	256QAM	50	0	21.26	21.45	21.19	21.29	21.07	
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	23.59	23.65	23.54	23.51	23.48	25.20
5	QPSK	1	12	23.73	23.60	23.30	23.48	23.32	
5	QPSK	1	24	23.59	23.69	23.48	23.45	23.36	
5	QPSK	12	0	23.46	23.55	23.53	23.24	23.45	25.2
5	QPSK	12	7	23.59	23.49	23.51	23.30	23.33	
5	QPSK	12	13	23.54	23.37	23.47	23.30	23.33	
5	QPSK	25	0	23.61	23.61	23.55	23.37	23.29	25.2
5	16QAM	1	0	23.56	23.26	23.47	23.42	23.38	
5	16QAM	1	12	23.37	23.35	23.29	23.34	23.27	
5	16QAM	1	24	23.29	23.34	23.43	23.36	23.32	25
5	16QAM	12	0	23.04	23.18	23.14	23.18	23.01	
5	16QAM	12	7	23.25	23.08	23.16	23.19	23.24	
5	16QAM	12	13	23.04	23.20	23.45	23.18	23.18	25
5	16QAM	25	0	23.07	23.17	23.42	23.12	23.18	
5	64QAM	1	0	23.20	23.34	23.00	23.08	23.06	
5	64QAM	1	12	23.19	23.33	23.04	23.08	23.16	25
5	64QAM	1	24	23.25	23.25	23.16	23.19	23.00	
5	64QAM	12	0	23.16	23.33	23.02	23.02	22.85	
5	64QAM	12	7	23.20	23.18	22.92	22.91	22.74	24
5	64QAM	12	13	23.19	23.24	22.79	22.83	22.93	
5	64QAM	25	0	23.26	23.24	23.01	23.11	22.84	
5	256QAM	1	0	21.45	21.46	21.46	21.48	21.15	22
5	256QAM	1	12	21.60	21.74	21.38	21.48	21.07	
5	256QAM	1	24	21.42	21.72	21.30	21.30	21.08	
5	256QAM	12	0	21.33	21.35	21.10	21.34	21.07	22
5	256QAM	12	7	21.43	21.34	21.23	21.23	20.99	
5	256QAM	12	13	21.38	21.58	21.17	21.22	21.01	
5	256QAM	25	0	21.28	21.25	21.08	21.20	21.08	



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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	24.30	24.31	24.29	24.24	24.20	25.4
20	QPSK	1	49	24.26	24.24	24.21	24.17	24.15	
20	QPSK	1	99	24.25	24.25	24.23	24.13	24.10	
20	QPSK	50	0	24.20	24.21	24.12	24.07	24.04	25.4
20	QPSK	50	24	24.18	24.16	24.11	24.05	24.02	
20	QPSK	50	50	24.18	24.15	24.10	24.05	24.00	
20	QPSK	100	0	24.20	24.20	24.08	24.08	23.99	25.4
20	16QAM	1	0	24.03	24.23	24.20	24.19	24.00	
20	16QAM	1	49	23.82	23.82	23.86	23.82	23.87	
20	16QAM	1	99	24.03	24.09	24.04	23.95	23.92	25
20	16QAM	50	0	23.74	23.72	23.66	23.60	23.54	
20	16QAM	50	24	23.71	23.68	23.63	23.59	23.56	
20	16QAM	50	50	23.72	23.68	23.66	23.55	23.54	25
20	16QAM	100	0	23.75	23.70	23.64	23.57	23.56	
20	64QAM	1	0	23.83	23.80	23.78	23.77	23.73	
20	64QAM	1	49	23.82	23.80	23.77	23.74	23.84	25
20	64QAM	1	99	23.81	23.83	23.76	23.69	23.70	
20	64QAM	50	0	23.21	23.16	23.12	23.08	23.05	
20	64QAM	50	24	23.21	23.17	23.11	23.07	23.04	24
20	64QAM	50	50	23.19	23.16	23.12	23.04	23.06	
20	64QAM	100	0	23.14	23.09	23.07	23.03	22.99	
20	256QAM	1	0	21.45	21.12	21.18	21.22	21.31	22
20	256QAM	1	49	21.42	21.21	21.17	21.16	21.00	
20	256QAM	1	99	21.51	21.29	21.40	21.28	21.14	
20	256QAM	50	0	21.40	21.50	21.45	21.23	21.37	22
20	256QAM	50	24	21.40	21.38	21.42	21.48	21.38	
20	256QAM	50	50	21.44	21.41	21.53	21.51	21.33	
20	256QAM	100	0	21.57	21.31	21.39	21.45	21.35	
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	24.30	24.28	24.09	24.19	24.01	25.40
15	QPSK	1	37	24.24	24.10	24.13	24.14	24.12	
15	QPSK	1	74	24.05	24.13	24.06	24.01	23.95	
15	QPSK	36	0	24.19	24.04	23.93	23.97	23.85	25.4
15	QPSK	36	20	24.18	24.08	24.07	23.89	23.97	
15	QPSK	36	39	24.08	23.96	23.93	24.01	23.94	
15	QPSK	75	0	24.20	24.10	23.98	23.95	23.93	25.4
15	16QAM	1	0	23.99	24.20	24.06	24.01	23.85	
15	16QAM	1	37	23.63	23.77	23.69	23.72	23.68	
15	16QAM	1	74	23.86	23.99	24.02	23.80	23.72	25
15	16QAM	36	0	23.62	23.69	23.53	23.46	23.41	
15	16QAM	36	20	23.52	23.64	23.52	23.40	23.47	
15	16QAM	36	39	23.55	23.67	23.53	23.43	23.47	25
15	16QAM	75	0	23.61	23.53	23.54	23.43	23.41	
15	64QAM	1	0	23.78	23.66	23.65	23.77	23.67	
15	64QAM	1	37	23.82	23.79	23.69	23.69	23.71	25
15	64QAM	1	74	23.69	23.79	23.71	23.65	23.63	
15	64QAM	36	0	23.08	23.01	22.99	23.01	22.98	
15	64QAM	36	20	23.02	23.17	23.10	22.96	22.96	24
15	64QAM	36	39	23.06	23.01	23.06	22.99	23.05	
15	64QAM	75	0	23.14	22.99	23.01	22.85	22.82	
15	256QAM	1	0	21.33	21.02	21.01	21.17	21.19	22
15	256QAM	1	37	21.23	21.17	21.04	21.12	20.93	
15	256QAM	1	74	21.49	21.18	21.36	21.25	21.14	
15	256QAM	36	0	21.22	21.49	21.41	21.11	21.29	22
15	256QAM	36	20	21.24	21.25	21.23	21.38	21.18	
15	256QAM	36	39	21.27	21.29	21.35	21.32	21.16	



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15	256QAM	75	0	21.46	21.15	21.26	21.40	21.15	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.26	24.28	24.28	24.06	24.20	25.40
10	QPSK	1	25	24.24	24.04	24.20	24.10	23.95	
10	QPSK	1	49	24.20	24.25	24.10	24.01	24.02	
10	QPSK	25	0	24.20	24.02	24.02	23.97	23.94	25.4
10	QPSK	25	12	24.18	24.10	24.06	23.90	23.89	
10	QPSK	25	25	24.08	24.03	23.93	23.95	23.91	
10	QPSK	50	0	24.09	24.09	23.91	24.08	23.95	
10	16QAM	1	0	23.89	24.21	24.05	24.03	23.81	25.4
10	16QAM	1	25	23.79	23.82	23.66	23.70	23.82	
10	16QAM	1	49	23.88	24.05	23.84	23.85	23.73	
10	16QAM	25	0	23.68	23.64	23.55	23.60	23.54	25
10	16QAM	25	12	23.57	23.64	23.44	23.40	23.56	
10	16QAM	25	25	23.55	23.48	23.61	23.50	23.34	
10	16QAM	50	0	23.62	23.70	23.63	23.39	23.37	
10	64QAM	1	0	23.75	23.60	23.60	23.57	23.61	25
10	64QAM	1	25	23.70	23.64	23.75	23.54	23.83	
10	64QAM	1	49	23.68	23.72	23.66	23.64	23.65	
10	64QAM	25	0	23.02	22.96	23.08	22.95	22.90	24
10	64QAM	25	12	23.14	22.98	22.98	23.03	22.88	
10	64QAM	25	25	23.15	23.10	22.94	22.92	23.00	
10	64QAM	50	0	22.95	23.08	23.05	23.03	22.82	
10	256QAM	1	0	21.30	20.99	21.07	21.04	21.17	22
10	256QAM	1	25	21.41	21.08	21.11	21.12	20.88	
10	256QAM	1	49	21.32	21.24	21.40	21.20	21.03	
10	256QAM	25	0	21.35	21.35	21.43	21.19	21.23	22
10	256QAM	25	12	21.30	21.35	21.28	21.43	21.37	
10	256QAM	25	25	21.29	21.27	21.49	21.43	21.29	
10	256QAM	50	0	21.40	21.14	21.20	21.42	21.26	
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	24.19	24.18	24.16	24.07	24.06	25.40
5	QPSK	1	12	24.12	24.07	24.11	24.11	23.97	
5	QPSK	1	24	24.18	24.06	24.18	23.98	23.92	
5	QPSK	12	0	24.13	24.05	24.06	23.92	23.95	25.4
5	QPSK	12	7	24.08	24.10	23.92	23.86	23.92	
5	QPSK	12	13	24.14	23.96	23.99	24.03	23.94	
5	QPSK	25	0	24.08	24.04	23.91	23.95	23.95	
5	16QAM	1	0	23.95	24.15	24.17	23.99	23.81	25.4
5	16QAM	1	12	23.63	23.65	23.76	23.62	23.87	
5	16QAM	1	24	23.99	23.95	23.99	23.90	23.73	
5	16QAM	12	0	23.63	23.72	23.47	23.42	23.46	25
5	16QAM	12	7	23.69	23.56	23.58	23.49	23.44	
5	16QAM	12	13	23.52	23.49	23.61	23.40	23.48	
5	16QAM	25	0	23.71	23.68	23.64	23.46	23.42	
5	64QAM	1	0	23.70	23.78	23.61	23.70	23.73	25
5	64QAM	1	12	23.75	23.62	23.71	23.67	23.80	
5	64QAM	1	24	23.72	23.65	23.56	23.63	23.66	
5	64QAM	12	0	23.17	22.98	22.95	22.99	22.98	24
5	64QAM	12	7	23.13	23.10	23.08	23.05	22.97	
5	64QAM	12	13	23.09	23.01	23.10	22.96	22.97	
5	64QAM	25	0	22.94	23.01	23.05	23.03	22.97	
5	256QAM	1	0	21.41	20.97	21.13	21.10	21.29	22
5	256QAM	1	12	21.35	21.01	20.99	21.01	20.91	
5	256QAM	1	24	21.38	21.15	21.39	21.12	21.08	
5	256QAM	12	0	21.22	21.34	21.25	21.20	21.36	22
5	256QAM	12	7	21.39	21.27	21.24	21.44	21.27	
5	256QAM	12	13	21.25	21.26	21.53	21.46	21.16	
5	256QAM	25	0	21.38	21.22	21.28	21.29	21.19	



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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	24.27	24.16	24.48	24.28	24.26	25.9
20	QPSK	1	49	24.20	24.13	24.38	24.21	24.21	
20	QPSK	1	99	24.26	24.09	24.20	24.25	24.25	
20	QPSK	50	0	24.28	24.19	24.35	24.18	24.16	25.9
20	QPSK	50	24	24.23	24.14	24.33	24.14	24.14	
20	QPSK	50	50	24.24	24.11	24.14	24.14	24.06	
20	QPSK	100	0	24.14	24.19	24.29	24.17	24.02	25.9
20	16QAM	1	0	24.28	23.99	24.15	24.14	23.96	
20	16QAM	1	49	24.08	24.01	24.29	23.92	24.17	
20	16QAM	1	99	24.11	24.05	24.22	23.92	24.06	25
20	16QAM	50	0	23.62	23.77	23.95	23.55	23.55	
20	16QAM	50	24	23.88	23.41	23.73	23.50	23.75	
20	16QAM	50	50	23.51	23.80	23.77	23.59	23.55	25
20	16QAM	100	0	23.74	23.74	23.53	23.53	23.77	
20	64QAM	1	0	23.69	23.63	23.68	23.88	23.79	
20	64QAM	1	49	23.82	23.62	23.68	23.78	23.80	24
20	64QAM	1	99	23.73	23.61	23.77	23.72	23.46	
20	64QAM	50	0	22.80	22.59	22.93	22.49	22.45	
20	64QAM	50	24	22.61	22.71	22.62	22.59	22.46	22
20	64QAM	50	50	22.76	22.54	22.76	22.65	22.43	
20	64QAM	100	0	22.91	22.66	22.93	22.34	22.28	
20	256QAM	1	0	20.76	20.88	21.00	20.78	20.89	22
20	256QAM	1	49	20.74	20.83	20.79	20.79	20.91	
20	256QAM	1	99	20.77	21.00	20.96	20.97	20.70	
20	256QAM	50	0	20.93	20.78	21.17	20.66	20.83	22
20	256QAM	50	24	21.22	20.81	21.12	20.96	20.73	
20	256QAM	50	50	20.83	20.87	21.12	20.95	20.79	
20	256QAM	100	0	20.92	21.04	21.00	20.79	20.49	
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	24.35	24.11	24.31	24.16	24.34	25.90
15	QPSK	1	37	24.20	23.93	24.17	24.28	24.11	
15	QPSK	1	74	24.25	24.07	24.11	24.19	24.11	
15	QPSK	36	0	24.13	23.94	24.38	24.05	24.09	25.9
15	QPSK	36	20	24.24	24.18	24.36	24.10	23.95	
15	QPSK	36	39	24.14	24.01	24.14	24.06	24.09	
15	QPSK	75	0	24.16	24.00	24.23	24.04	23.95	25.9
15	16QAM	1	0	24.22	23.95	24.11	24.21	23.92	
15	16QAM	1	37	24.11	23.98	24.07	24.19	24.28	
15	16QAM	1	74	23.97	24.14	24.09	24.08	24.02	25
15	16QAM	36	0	23.99	23.55	23.89	23.61	23.58	
15	16QAM	36	20	23.81	23.39	23.71	23.80	23.72	
15	16QAM	36	39	23.90	23.47	23.65	23.77	23.58	25
15	16QAM	75	0	23.70	23.58	23.59	23.57	23.57	
15	64QAM	1	0	23.72	23.42	23.71	23.51	23.47	
15	64QAM	1	37	23.56	23.58	23.59	23.70	23.60	24
15	64QAM	1	74	23.70	23.52	23.60	23.52	23.64	
15	64QAM	36	0	22.77	22.67	22.81	22.42	22.36	
15	64QAM	36	20	22.90	22.44	22.66	22.46	22.51	22
15	64QAM	36	39	22.73	22.71	22.81	22.46	22.53	
15	64QAM	75	0	22.77	22.62	22.67	22.44	22.31	
15	256QAM	1	0	20.93	20.86	20.81	20.58	20.78	22
15	256QAM	1	37	20.88	20.67	20.73	20.64	20.98	
15	256QAM	1	74	20.69	20.87	20.98	20.73	20.77	
15	256QAM	36	0	21.20	20.82	20.91	20.77	20.79	22
15	256QAM	36	20	21.05	20.81	20.99	20.55	20.75	
15	256QAM	36	39	20.80	20.76	20.85	20.98	20.68	



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15	256QAM	75	0	21.10	20.50	20.94	20.63	20.77	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.12	24.07	24.25	24.18	24.17	25.90
10	QPSK	1	25	24.07	24.04	24.14	24.19	24.07	
10	QPSK	1	49	24.15	24.09	24.11	24.21	24.13	
10	QPSK	25	0	24.20	24.14	24.22	24.11	24.14	25.9
10	QPSK	25	12	24.25	24.07	24.36	24.08	24.04	
10	QPSK	25	25	24.08	23.94	24.16	23.99	23.99	
10	QPSK	50	0	24.13	23.97	24.11	23.93	24.02	25.9
10	16QAM	1	0	23.90	24.34	24.30	24.16	24.29	
10	16QAM	1	25	24.00	24.10	24.21	24.13	24.16	
10	16QAM	1	49	23.94	24.15	24.17	23.90	24.13	25
10	16QAM	25	0	23.82	23.61	23.90	23.64	23.54	
10	16QAM	25	12	23.82	23.65	23.62	23.77	23.51	
10	16QAM	25	25	23.70	23.64	23.72	23.38	23.61	25
10	16QAM	50	0	23.49	23.66	23.74	23.34	23.49	
10	64QAM	1	0	23.61	23.48	23.80	23.44	23.42	
10	64QAM	1	25	23.46	23.57	23.79	23.70	23.87	25
10	64QAM	1	49	23.51	23.61	23.68	23.67	23.74	
10	64QAM	25	0	22.81	22.47	23.04	22.27	22.42	
10	64QAM	25	12	22.79	22.61	22.43	22.29	22.28	24
10	64QAM	25	25	22.58	22.31	22.92	22.60	22.46	
10	64QAM	50	0	22.76	22.59	22.53	22.35	22.58	
10	256QAM	1	0	20.79	20.82	21.13	20.84	20.79	22
10	256QAM	1	25	20.61	20.83	20.80	20.68	20.76	
10	256QAM	1	49	20.98	20.93	21.01	20.86	20.62	
10	256QAM	25	0	21.26	21.07	21.26	20.79	20.51	22
10	256QAM	25	12	20.98	20.86	20.84	20.66	20.69	
10	256QAM	25	25	20.89	20.75	21.01	20.55	20.54	
10	256QAM	50	0	20.92	20.81	20.91	20.82	20.45	
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	24.23	24.10	24.41	24.08	24.34	25.90
5	QPSK	1	12	24.20	24.05	24.16	24.19	24.19	
5	QPSK	1	24	24.02	23.94	24.12	24.21	24.09	
5	QPSK	12	0	24.17	24.21	24.33	24.07	24.02	25.9
5	QPSK	12	7	24.21	24.10	24.27	24.10	24.03	
5	QPSK	12	13	24.05	23.98	24.04	23.97	23.93	
5	QPSK	25	0	24.05	24.06	24.07	24.05	24.02	25.9
5	16QAM	1	0	24.24	24.11	24.26	24.20	24.11	
5	16QAM	1	12	24.20	23.94	23.97	24.25	23.93	
5	16QAM	1	24	24.30	24.06	24.05	24.00	23.97	25
5	16QAM	12	0	23.44	23.36	23.61	23.64	23.40	
5	16QAM	12	7	23.57	23.71	23.38	23.60	23.38	
5	16QAM	12	13	23.64	23.58	23.67	23.66	23.30	25
5	16QAM	25	0	23.87	23.72	23.42	23.47	23.65	
5	64QAM	1	0	23.52	23.56	23.76	23.73	23.54	
5	64QAM	1	12	23.60	23.37	23.63	23.34	23.38	25
5	64QAM	1	24	23.72	23.76	23.71	23.28	23.54	
5	64QAM	12	0	22.74	22.37	22.72	22.30	22.37	
5	64QAM	12	7	22.77	22.62	22.51	22.31	22.30	24
5	64QAM	12	13	22.38	22.38	22.72	22.52	22.05	
5	64QAM	25	0	22.88	22.50	22.77	22.14	22.51	
5	256QAM	1	0	20.79	20.47	20.98	20.69	20.61	22
5	256QAM	1	12	20.72	20.75	21.09	20.87	20.80	
5	256QAM	1	24	20.93	20.81	20.97	20.77	20.79	
5	256QAM	12	0	21.16	20.67	21.06	20.70	20.78	22
5	256QAM	12	7	20.87	20.86	20.85	20.78	20.78	
5	256QAM	12	13	20.87	20.89	21.07	20.96	20.58	
5	256QAM	25	0	20.93	20.86	20.94	20.61	20.65	



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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	21.56	21.64	21.67	21.66	21.48	21.9
20	QPSK	1	49	21.58	21.62	21.63	21.63	21.44	
20	QPSK	1	99	21.56	21.63	21.65	21.59	21.41	
20	QPSK	50	0	21.56	21.57	21.62	21.53	21.38	21.9
20	QPSK	50	24	21.55	21.54	21.60	21.52	21.37	
20	QPSK	50	50	21.55	21.57	21.58	21.51	21.33	
20	QPSK	100	0	21.53	21.54	21.60	21.55	21.33	21.9
20	16QAM	1	0	21.38	21.46	21.45	21.52	21.35	
20	16QAM	1	49	21.11	21.16	21.19	21.14	20.97	
20	16QAM	1	99	21.35	21.45	21.51	21.44	21.25	21.9
20	16QAM	50	0	21.58	21.61	21.64	21.57	21.43	
20	16QAM	50	24	21.56	21.58	21.63	21.57	21.39	
20	16QAM	50	50	21.56	21.60	21.63	21.57	21.40	21.9
20	16QAM	100	0	21.59	21.63	21.65	21.61	21.42	
20	64QAM	1	0	21.37	21.15	21.59	21.54	21.44	
20	64QAM	1	49	21.53	21.54	21.49	21.43	21.26	21.9
20	64QAM	1	99	21.38	21.46	21.22	21.17	21.03	
20	64QAM	50	0	21.55	21.60	21.62	21.57	21.43	
20	64QAM	50	24	21.55	21.60	21.63	21.56	21.42	21.9
20	64QAM	50	50	21.55	21.61	21.63	21.58	21.38	
20	64QAM	100	0	21.56	21.61	21.63	21.60	21.39	
20	256QAM	1	0	21.31	21.51	21.39	21.58	21.36	21.9
20	256QAM	1	49	21.10	21.19	21.33	21.19	21.34	
20	256QAM	1	99	21.20	21.11	21.28	21.26	20.95	
20	256QAM	50	0	21.03	20.99	21.05	20.95	20.81	21.9
20	256QAM	50	24	20.93	20.92	21.01	20.93	20.96	
20	256QAM	50	50	20.97	21.15	21.01	20.90	20.81	
20	256QAM	100	0	21.14	21.06	21.08	20.90	20.89	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	21.44	21.57	21.61	21.50	21.44	21.90
15	QPSK	1	37	21.46	21.47	21.50	21.61	21.35	
15	QPSK	1	74	21.38	21.48	21.45	21.58	21.28	
15	QPSK	36	0	21.43	21.55	21.46	21.43	21.24	21.9
15	QPSK	36	20	21.42	21.43	21.52	21.39	21.22	
15	QPSK	36	39	21.48	21.52	21.42	21.44	21.18	
15	QPSK	75	0	21.43	21.50	21.53	21.50	21.18	21.9
15	16QAM	1	0	21.35	21.29	21.35	21.39	21.28	
15	16QAM	1	37	21.01	21.07	21.10	21.07	21.03	
15	16QAM	1	74	21.18	21.41	21.34	21.42	21.09	21.9
15	16QAM	36	0	21.55	21.55	21.55	21.40	21.23	
15	16QAM	36	20	21.54	21.45	21.61	21.56	21.22	
15	16QAM	36	39	21.41	21.59	21.54	21.47	21.38	21.9
15	16QAM	75	0	21.45	21.58	21.65	21.49	21.22	
15	64QAM	1	0	21.22	21.04	21.45	21.37	21.24	
15	64QAM	1	37	21.48	21.45	21.35	21.42	21.21	21.9
15	64QAM	1	74	21.28	21.31	21.06	21.07	20.92	
15	64QAM	36	0	21.40	21.56	21.62	21.44	21.31	
15	64QAM	36	20	21.44	21.50	21.59	21.42	21.28	21.9
15	64QAM	36	39	21.40	21.43	21.51	21.41	21.38	
15	64QAM	75	0	21.38	21.43	21.60	21.54	21.27	
15	256QAM	1	0	21.30	21.34	21.28	21.49	21.16	21.9
15	256QAM	1	37	21.05	21.01	21.16	21.14	21.34	
15	256QAM	1	74	21.06	20.94	21.22	21.17	20.75	
15	256QAM	36	0	20.89	20.85	21.02	20.80	20.76	21.9
15	256QAM	36	20	20.79	20.92	20.88	20.93	20.77	
15	256QAM	36	39	20.89	20.99	20.91	20.81	20.75	



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15	256QAM	75	0	21.01	20.98	21.08	20.88	20.79	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	21.49	21.51	21.49	21.60	21.38	21.90
10	QPSK	1	25	21.57	21.57	21.54	21.61	21.38	
10	QPSK	1	49	21.37	21.60	21.59	21.54	21.31	
10	QPSK	25	0	21.45	21.46	21.49	21.48	21.20	21.9
10	QPSK	25	12	21.47	21.38	21.43	21.47	21.36	
10	QPSK	25	25	21.50	21.39	21.45	21.43	21.21	
10	QPSK	50	0	21.46	21.49	21.57	21.40	21.25	
10	16QAM	1	0	21.19	21.35	21.35	21.50	21.25	21.9
10	16QAM	1	25	20.94	21.06	21.06	21.11	21.02	
10	16QAM	1	49	21.15	21.40	21.48	21.37	21.11	
10	16QAM	25	0	21.56	21.42	21.51	21.50	21.32	21.9
10	16QAM	25	12	21.41	21.52	21.56	21.52	21.38	
10	16QAM	25	25	21.46	21.59	21.43	21.41	21.40	
10	16QAM	50	0	21.58	21.52	21.57	21.48	21.22	
10	64QAM	1	0	21.32	21.08	21.49	21.50	21.33	21.9
10	64QAM	1	25	21.53	21.42	21.36	21.31	21.23	
10	64QAM	1	49	21.23	21.42	21.20	21.03	21.05	
10	64QAM	25	0	21.51	21.48	21.62	21.52	21.26	21.9
10	64QAM	25	12	21.36	21.42	21.60	21.51	21.41	
10	64QAM	25	25	21.53	21.54	21.49	21.51	21.26	
10	64QAM	50	0	21.40	21.48	21.58	21.44	21.33	
10	256QAM	1	0	21.24	21.38	21.23	21.50	21.23	21.9
10	256QAM	1	25	20.90	21.08	21.28	21.08	21.34	
10	256QAM	1	49	21.18	20.94	21.17	21.20	20.81	
10	256QAM	25	0	20.97	20.80	20.98	20.95	20.71	21.9
10	256QAM	25	12	20.90	20.77	20.89	20.90	20.81	
10	256QAM	25	25	20.97	21.04	20.92	20.73	20.74	
10	256QAM	50	0	21.10	21.02	20.98	20.77	20.83	
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	21.54	21.47	21.58	21.66	21.36	21.90
5	QPSK	1	12	21.56	21.42	21.47	21.55	21.36	
5	QPSK	1	24	21.43	21.61	21.51	21.53	21.39	
5	QPSK	12	0	21.49	21.48	21.51	21.47	21.21	21.9
5	QPSK	12	7	21.50	21.41	21.41	21.49	21.33	
5	QPSK	12	13	21.45	21.43	21.50	21.41	21.30	
5	QPSK	25	0	21.46	21.46	21.49	21.55	21.33	
5	16QAM	1	0	21.33	21.34	21.35	21.35	21.17	21.9
5	16QAM	1	12	20.97	20.96	21.17	21.04	20.97	
5	16QAM	1	24	21.19	21.37	21.45	21.26	21.11	
5	16QAM	12	0	21.52	21.59	21.63	21.48	21.34	21.9
5	16QAM	12	7	21.50	21.52	21.63	21.53	21.38	
5	16QAM	12	13	21.48	21.59	21.58	21.54	21.39	
5	16QAM	25	0	21.39	21.45	21.61	21.50	21.24	
5	64QAM	1	0	21.22	21.00	21.43	21.39	21.34	21.9
5	64QAM	1	12	21.39	21.40	21.46	21.33	21.14	
5	64QAM	1	24	21.35	21.38	21.11	20.98	20.96	
5	64QAM	12	0	21.35	21.54	21.42	21.53	21.43	21.9
5	64QAM	12	7	21.36	21.40	21.63	21.52	21.31	
5	64QAM	12	13	21.53	21.59	21.55	21.45	21.27	
5	64QAM	25	0	21.49	21.56	21.46	21.47	21.27	
5	256QAM	1	0	21.24	21.36	21.36	21.46	21.28	21.9
5	256QAM	1	12	20.95	21.11	21.27	21.19	21.14	
5	256QAM	1	24	21.11	20.92	21.22	21.10	20.85	
5	256QAM	12	0	20.95	20.80	20.89	20.90	20.80	21.9
5	256QAM	12	7	20.93	20.73	20.96	20.81	20.77	
5	256QAM	12	13	20.78	20.99	20.99	20.90	20.79	
5	256QAM	25	0	21.10	21.02	21.01	20.80	20.79	



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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	23.73	23.81	23.64	23.58	23.34	24.4
20	QPSK	1	49	23.73	23.73	23.47	23.53	23.32	
20	QPSK	1	99	23.67	23.70	23.62	23.48	23.29	
20	QPSK	50	0	23.73	23.76	23.69	23.50	23.28	24.4
20	QPSK	50	24	23.70	23.70	23.63	23.36	23.25	
20	QPSK	50	50	23.53	23.53	23.59	23.38	23.25	
20	QPSK	100	0	23.54	23.65	23.60	23.40	23.38	24.4
20	16QAM	1	0	23.63	23.28	23.42	23.53	23.39	
20	16QAM	1	49	23.24	23.34	23.44	23.34	23.21	
20	16QAM	1	99	23.35	23.33	23.58	23.37	23.24	24.4
20	16QAM	50	0	23.14	23.18	23.32	23.11	23.14	
20	16QAM	50	24	23.21	23.06	23.18	23.19	23.15	
20	16QAM	50	50	23.23	23.24	23.33	23.17	23.16	24.4
20	16QAM	100	0	23.22	23.19	23.63	23.19	23.19	
20	64QAM	1	0	23.22	23.30	23.09	23.11	23.11	
20	64QAM	1	49	23.39	23.50	23.10	23.13	23.16	24.4
20	64QAM	1	99	23.19	23.29	23.10	23.08	23.14	
20	64QAM	50	0	23.29	23.20	23.05	23.00	22.89	
20	64QAM	50	24	23.23	23.30	23.03	23.05	22.79	24
20	64QAM	50	50	23.14	23.27	22.97	23.13	22.87	
20	64QAM	100	0	23.30	23.24	23.12	23.14	22.80	
20	256QAM	1	0	21.59	21.63	21.43	21.33	21.15	22
20	256QAM	1	49	21.76	21.81	21.54	21.59	21.36	
20	256QAM	1	99	21.61	21.64	21.48	21.41	21.35	
20	256QAM	50	0	21.57	21.56	21.14	21.32	21.19	22
20	256QAM	50	24	21.55	21.40	21.39	21.30	21.14	
20	256QAM	50	50	21.41	21.60	21.22	21.22	21.16	
20	256QAM	100	0	21.44	21.42	21.37	21.29	21.21	
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	23.57	23.70	23.62	23.48	23.27	24.40
15	QPSK	1	37	23.53	23.70	23.38	23.38	23.25	
15	QPSK	1	74	23.53	23.59	23.59	23.44	23.23	
15	QPSK	36	0	23.52	23.49	23.69	23.29	23.47	24.4
15	QPSK	36	20	23.44	23.61	23.51	23.26	23.49	
15	QPSK	36	39	23.41	23.58	23.43	23.33	23.44	
15	QPSK	75	0	23.35	23.60	23.52	23.30	23.30	24.4
15	16QAM	1	0	23.46	23.34	23.24	23.52	23.42	
15	16QAM	1	37	23.35	23.37	23.23	23.30	23.39	
15	16QAM	1	74	23.33	23.39	23.38	23.38	23.25	24.4
15	16QAM	36	0	23.10	23.10	23.01	23.10	23.18	
15	16QAM	36	20	23.13	23.15	23.01	23.19	23.19	
15	16QAM	36	39	23.18	23.16	23.28	23.13	23.05	24.4
15	16QAM	75	0	23.18	23.19	23.37	23.00	23.02	
15	64QAM	1	0	23.13	23.24	23.13	23.17	23.18	
15	64QAM	1	37	23.11	23.50	23.19	23.04	23.08	24.4
15	64QAM	1	74	23.15	23.05	23.20	23.13	23.02	
15	64QAM	36	0	23.09	23.28	22.75	23.09	22.89	
15	64QAM	36	20	22.96	23.28	22.92	23.08	22.71	24
15	64QAM	36	39	23.14	23.12	22.98	22.95	22.68	
15	64QAM	75	0	23.26	23.07	22.82	23.13	22.74	
15	256QAM	1	0	21.51	21.57	21.42	21.31	21.03	22
15	256QAM	1	37	21.49	21.61	21.31	21.28	21.22	
15	256QAM	1	74	21.27	21.58	21.29	21.46	21.12	
15	256QAM	36	0	21.26	21.42	21.06	21.23	20.90	22
15	256QAM	36	20	21.46	21.35	21.20	21.27	21.00	
15	256QAM	36	39	21.41	21.36	21.11	21.29	21.09	



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15	256QAM	75	0	21.43	21.41	21.15	21.17	20.88	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.71	23.66	23.47	23.52	23.31	24.40
10	QPSK	1	25	23.63	23.59	23.44	23.33	23.20	
10	QPSK	1	49	23.66	23.53	23.50	23.40	23.34	
10	QPSK	25	0	23.64	23.41	23.69	23.42	23.26	24.4
10	QPSK	25	12	23.44	23.60	23.43	23.46	23.28	
10	QPSK	25	25	23.48	23.52	23.49	23.39	23.21	
10	QPSK	50	0	23.39	23.49	23.67	23.30	23.27	
10	16QAM	1	0	23.61	23.20	23.28	23.24	23.36	24.4
10	16QAM	1	25	23.20	23.36	23.33	23.33	23.27	
10	16QAM	1	49	23.28	23.34	23.31	23.25	23.30	
10	16QAM	25	0	23.15	23.15	23.12	23.20	23.19	24.4
10	16QAM	25	12	23.11	23.09	23.02	23.19	23.16	
10	16QAM	25	25	23.07	23.08	23.33	23.15	23.15	
10	16QAM	50	0	23.09	23.25	23.45	23.06	23.15	
10	64QAM	1	0	23.04	23.21	23.19	23.13	23.11	24.4
10	64QAM	1	25	23.30	23.51	23.16	23.04	23.03	
10	64QAM	1	49	23.06	23.12	23.13	23.15	23.04	
10	64QAM	25	0	23.02	23.01	23.02	23.00	22.71	24
10	64QAM	25	12	23.07	23.06	22.81	22.95	22.72	
10	64QAM	25	25	23.21	23.03	22.87	22.98	22.89	
10	64QAM	50	0	23.17	23.08	23.06	22.95	22.78	
10	256QAM	1	0	21.31	21.55	21.35	21.20	20.95	22
10	256QAM	1	25	21.53	21.58	21.20	21.46	21.32	
10	256QAM	1	49	21.50	21.73	21.32	21.28	21.13	
10	256QAM	25	0	21.35	21.42	21.19	21.27	21.00	22
10	256QAM	25	12	21.27	21.44	21.24	21.15	20.90	
10	256QAM	25	25	21.40	21.38	21.15	21.33	21.10	
10	256QAM	50	0	21.26	21.45	21.19	21.29	21.07	
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	23.59	23.65	23.54	23.51	23.48	24.40
5	QPSK	1	12	23.73	23.60	23.30	23.48	23.32	
5	QPSK	1	24	23.59	23.69	23.48	23.45	23.36	
5	QPSK	12	0	23.46	23.55	23.53	23.24	23.45	24.4
5	QPSK	12	7	23.59	23.49	23.51	23.30	23.33	
5	QPSK	12	13	23.54	23.37	23.47	23.30	23.33	
5	QPSK	25	0	23.61	23.61	23.55	23.37	23.29	
5	16QAM	1	0	23.56	23.26	23.47	23.42	23.38	24.4
5	16QAM	1	12	23.37	23.35	23.29	23.34	23.27	
5	16QAM	1	24	23.29	23.34	23.43	23.36	23.32	
5	16QAM	12	0	23.04	23.18	23.14	23.18	23.01	24.4
5	16QAM	12	7	23.25	23.08	23.16	23.19	23.24	
5	16QAM	12	13	23.04	23.20	23.45	23.18	23.18	
5	16QAM	25	0	23.07	23.17	23.42	23.12	23.18	
5	64QAM	1	0	23.20	23.34	23.00	23.08	23.06	24.4
5	64QAM	1	12	23.19	23.33	23.04	23.08	23.16	
5	64QAM	1	24	23.25	23.25	23.16	23.19	23.00	
5	64QAM	12	0	23.16	23.33	23.02	23.02	22.85	24
5	64QAM	12	7	23.20	23.18	22.92	22.91	22.74	
5	64QAM	12	13	23.19	23.24	22.79	22.83	22.93	
5	64QAM	25	0	23.26	23.24	23.01	23.11	22.84	
5	256QAM	1	0	21.45	21.46	21.46	21.48	21.15	22
5	256QAM	1	12	21.60	21.74	21.38	21.48	21.07	
5	256QAM	1	24	21.42	21.72	21.30	21.30	21.08	
5	256QAM	12	0	21.33	21.35	21.10	21.34	21.07	22
5	256QAM	12	7	21.43	21.34	21.23	21.23	20.99	
5	256QAM	12	13	21.38	21.58	21.17	21.22	21.01	
5	256QAM	25	0	21.28	21.25	21.08	21.20	21.08	



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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	24.30	24.31	24.29	24.24	24.20	24.6
20	QPSK	1	49	24.26	24.24	24.21	24.17	24.15	
20	QPSK	1	99	24.25	24.25	24.23	24.13	24.10	
20	QPSK	50	0	24.20	24.21	24.12	24.07	24.04	24.6
20	QPSK	50	24	24.18	24.16	24.11	24.05	24.02	
20	QPSK	50	50	24.18	24.15	24.10	24.05	24.00	
20	QPSK	100	0	24.20	24.20	24.08	24.08	23.99	24.6
20	16QAM	1	0	24.03	24.23	24.20	24.19	24.00	
20	16QAM	1	49	23.82	23.82	23.86	23.82	23.87	
20	16QAM	1	99	24.03	24.09	24.04	23.95	23.92	24.6
20	16QAM	50	0	23.74	23.72	23.66	23.60	23.54	
20	16QAM	50	24	23.71	23.68	23.63	23.59	23.56	
20	16QAM	50	50	23.72	23.68	23.66	23.55	23.54	24.6
20	16QAM	100	0	23.75	23.70	23.64	23.57	23.56	
20	64QAM	1	0	23.83	23.80	23.78	23.77	23.73	
20	64QAM	1	49	23.82	23.80	23.77	23.74	23.84	24.6
20	64QAM	1	99	23.81	23.83	23.76	23.69	23.70	
20	64QAM	50	0	23.21	23.16	23.12	23.08	23.05	
20	64QAM	50	24	23.21	23.17	23.11	23.07	23.04	24
20	64QAM	50	50	23.19	23.16	23.12	23.04	23.06	
20	64QAM	100	0	23.14	23.09	23.07	23.03	22.99	
20	256QAM	1	0	21.45	21.12	21.18	21.22	21.31	22
20	256QAM	1	49	21.42	21.21	21.17	21.16	21.00	
20	256QAM	1	99	21.51	21.29	21.40	21.28	21.14	
20	256QAM	50	0	21.40	21.50	21.45	21.23	21.37	22
20	256QAM	50	24	21.40	21.38	21.42	21.48	21.38	
20	256QAM	50	50	21.44	21.41	21.53	21.51	21.33	
20	256QAM	100	0	21.57	21.31	21.39	21.45	21.35	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)
15	QPSK	1	0	24.30	24.28	24.09	24.19	24.01	24.60
15	QPSK	1	37	24.24	24.10	24.13	24.14	24.12	
15	QPSK	1	74	24.05	24.13	24.06	24.01	23.95	
15	QPSK	36	0	24.19	24.04	23.93	23.97	23.85	24.6
15	QPSK	36	20	24.18	24.08	24.07	23.89	23.97	
15	QPSK	36	39	24.08	23.96	23.93	24.01	23.94	
15	QPSK	75	0	24.20	24.10	23.98	23.95	23.93	24.6
15	16QAM	1	0	23.99	24.20	24.06	24.01	23.85	
15	16QAM	1	37	23.63	23.77	23.69	23.72	23.68	
15	16QAM	1	74	23.86	23.99	24.02	23.80	23.72	24.6
15	16QAM	36	0	23.62	23.69	23.53	23.46	23.41	
15	16QAM	36	20	23.52	23.64	23.52	23.40	23.47	
15	16QAM	36	39	23.55	23.67	23.53	23.43	23.47	24.6
15	16QAM	75	0	23.61	23.53	23.54	23.43	23.41	
15	64QAM	1	0	23.78	23.66	23.65	23.77	23.67	
15	64QAM	1	37	23.82	23.79	23.69	23.69	23.71	24.6
15	64QAM	1	74	23.69	23.79	23.71	23.65	23.63	
15	64QAM	36	0	23.08	23.01	22.99	23.01	22.98	
15	64QAM	36	20	23.02	23.17	23.10	22.96	22.96	24
15	64QAM	36	39	23.06	23.01	23.06	22.99	23.05	
15	64QAM	75	0	23.14	22.99	23.01	22.85	22.82	
15	256QAM	1	0	21.33	21.02	21.01	21.17	21.19	22
15	256QAM	1	37	21.23	21.17	21.04	21.12	20.93	
15	256QAM	1	74	21.49	21.18	21.36	21.25	21.14	
15	256QAM	36	0	21.22	21.49	21.41	21.11	21.29	22
15	256QAM	36	20	21.24	21.25	21.23	21.38	21.18	
15	256QAM	36	39	21.27	21.29	21.35	21.32	21.16	



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15	256QAM	75	0	21.46	21.15	21.26	21.40	21.15	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.26	24.28	24.28	24.06	24.20	24.60
10	QPSK	1	25	24.24	24.04	24.20	24.10	23.95	
10	QPSK	1	49	24.20	24.25	24.10	24.01	24.02	
10	QPSK	25	0	24.20	24.02	24.02	23.97	23.94	24.6
10	QPSK	25	12	24.18	24.10	24.06	23.90	23.89	
10	QPSK	25	25	24.08	24.03	23.93	23.95	23.91	
10	QPSK	50	0	24.09	24.09	23.91	24.08	23.95	
10	16QAM	1	0	23.89	24.21	24.05	24.03	23.81	24.6
10	16QAM	1	25	23.79	23.82	23.66	23.70	23.82	
10	16QAM	1	49	23.88	24.05	23.84	23.85	23.73	
10	16QAM	25	0	23.68	23.64	23.55	23.60	23.54	24.6
10	16QAM	25	12	23.57	23.64	23.44	23.40	23.56	
10	16QAM	25	25	23.55	23.48	23.61	23.50	23.34	
10	16QAM	50	0	23.62	23.70	23.63	23.39	23.37	
10	64QAM	1	0	23.75	23.60	23.60	23.57	23.61	24.6
10	64QAM	1	25	23.70	23.64	23.75	23.54	23.83	
10	64QAM	1	49	23.68	23.72	23.66	23.64	23.65	
10	64QAM	25	0	23.02	22.96	23.08	22.95	22.90	24
10	64QAM	25	12	23.14	22.98	22.98	23.03	22.88	
10	64QAM	25	25	23.15	23.10	22.94	22.92	23.00	
10	64QAM	50	0	22.95	23.08	23.05	23.03	22.82	
10	256QAM	1	0	21.30	20.99	21.07	21.04	21.17	22
10	256QAM	1	25	21.41	21.08	21.11	21.12	20.88	
10	256QAM	1	49	21.32	21.24	21.40	21.20	21.03	
10	256QAM	25	0	21.35	21.35	21.43	21.19	21.23	22
10	256QAM	25	12	21.30	21.35	21.28	21.43	21.37	
10	256QAM	25	25	21.29	21.27	21.49	21.43	21.29	
10	256QAM	50	0	21.40	21.14	21.20	21.42	21.26	
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	24.19	24.18	24.16	24.07	24.06	24.60
5	QPSK	1	12	24.12	24.07	24.11	24.11	23.97	
5	QPSK	1	24	24.18	24.06	24.18	23.98	23.92	
5	QPSK	12	0	24.13	24.05	24.06	23.92	23.95	24.6
5	QPSK	12	7	24.08	24.10	23.92	23.86	23.92	
5	QPSK	12	13	24.14	23.96	23.99	24.03	23.94	
5	QPSK	25	0	24.08	24.04	23.91	23.95	23.95	
5	16QAM	1	0	23.95	24.15	24.17	23.99	23.81	24.6
5	16QAM	1	12	23.63	23.65	23.76	23.62	23.87	
5	16QAM	1	24	23.99	23.95	23.99	23.90	23.73	
5	16QAM	12	0	23.63	23.72	23.47	23.42	23.46	24.6
5	16QAM	12	7	23.69	23.56	23.58	23.49	23.44	
5	16QAM	12	13	23.52	23.49	23.61	23.40	23.48	
5	16QAM	25	0	23.71	23.68	23.64	23.46	23.42	
5	64QAM	1	0	23.70	23.78	23.61	23.70	23.73	24.6
5	64QAM	1	12	23.75	23.62	23.71	23.67	23.80	
5	64QAM	1	24	23.72	23.65	23.56	23.63	23.66	
5	64QAM	12	0	23.17	22.98	22.95	22.99	22.98	24
5	64QAM	12	7	23.13	23.10	23.08	23.05	22.97	
5	64QAM	12	13	23.09	23.01	23.10	22.96	22.97	
5	64QAM	25	0	22.94	23.01	23.05	23.03	22.97	
5	256QAM	1	0	21.41	20.97	21.13	21.10	21.29	22
5	256QAM	1	12	21.35	21.01	20.99	21.01	20.91	
5	256QAM	1	24	21.38	21.15	21.39	21.12	21.08	
5	256QAM	12	0	21.22	21.34	21.25	21.20	21.36	22
5	256QAM	12	7	21.39	21.27	21.24	21.44	21.27	
5	256QAM	12	13	21.25	21.26	21.53	21.46	21.16	
5	256QAM	25	0	21.38	21.22	21.28	21.29	21.19	



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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	24.27	24.16	24.48	24.28	24.26	25.1
20	QPSK	1	49	24.20	24.13	24.38	24.21	24.21	
20	QPSK	1	99	24.26	24.09	24.20	24.25	24.25	
20	QPSK	50	0	24.28	24.19	24.35	24.18	24.16	25.1
20	QPSK	50	24	24.23	24.14	24.33	24.14	24.14	
20	QPSK	50	50	24.24	24.11	24.14	24.14	24.06	
20	QPSK	100	0	24.14	24.19	24.29	24.17	24.02	25.1
20	16QAM	1	0	24.28	23.99	24.15	24.14	23.96	
20	16QAM	1	49	24.08	24.01	24.29	23.92	24.17	
20	16QAM	1	99	24.11	24.05	24.22	23.92	24.06	25
20	16QAM	50	0	23.62	23.77	23.95	23.55	23.55	
20	16QAM	50	24	23.88	23.41	23.73	23.50	23.75	
20	16QAM	50	50	23.51	23.80	23.77	23.59	23.55	25
20	16QAM	100	0	23.74	23.74	23.53	23.53	23.77	
20	64QAM	1	0	23.69	23.63	23.68	23.88	23.79	
20	64QAM	1	49	23.82	23.62	23.68	23.78	23.80	24
20	64QAM	1	99	23.73	23.61	23.77	23.72	23.46	
20	64QAM	50	0	22.80	22.59	22.93	22.49	22.45	
20	64QAM	50	24	22.61	22.71	22.62	22.59	22.46	22
20	64QAM	50	50	22.76	22.54	22.76	22.65	22.43	
20	64QAM	100	0	22.91	22.66	22.93	22.34	22.28	
20	256QAM	1	0	20.76	20.88	21.00	20.78	20.89	22
20	256QAM	1	49	20.74	20.83	20.79	20.79	20.91	
20	256QAM	1	99	20.77	21.00	20.96	20.97	20.70	
20	256QAM	50	0	20.93	20.78	21.17	20.66	20.83	22
20	256QAM	50	24	21.22	20.81	21.12	20.96	20.73	
20	256QAM	50	50	20.83	20.87	21.12	20.95	20.79	
20	256QAM	100	0	20.92	21.04	21.00	20.79	20.49	
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	24.35	24.11	24.31	24.16	24.34	25.10
15	QPSK	1	37	24.20	23.93	24.17	24.28	24.11	
15	QPSK	1	74	24.25	24.07	24.11	24.19	24.11	
15	QPSK	36	0	24.13	23.94	24.38	24.05	24.09	25.1
15	QPSK	36	20	24.24	24.18	24.36	24.10	23.95	
15	QPSK	36	39	24.14	24.01	24.14	24.06	24.09	
15	QPSK	75	0	24.16	24.00	24.23	24.04	23.95	25.1
15	16QAM	1	0	24.22	23.95	24.11	24.21	23.92	
15	16QAM	1	37	24.11	23.98	24.07	24.19	24.28	
15	16QAM	1	74	23.97	24.14	24.09	24.08	24.02	25
15	16QAM	36	0	23.99	23.55	23.89	23.61	23.58	
15	16QAM	36	20	23.81	23.39	23.71	23.80	23.72	
15	16QAM	36	39	23.90	23.47	23.65	23.77	23.58	25
15	16QAM	75	0	23.70	23.58	23.59	23.57	23.57	
15	64QAM	1	0	23.72	23.42	23.71	23.51	23.47	
15	64QAM	1	37	23.56	23.58	23.59	23.70	23.60	24
15	64QAM	1	74	23.70	23.52	23.60	23.52	23.64	
15	64QAM	36	0	22.77	22.67	22.81	22.42	22.36	
15	64QAM	36	20	22.90	22.44	22.66	22.46	22.51	22
15	64QAM	36	39	22.73	22.71	22.81	22.46	22.53	
15	64QAM	75	0	22.77	22.62	22.67	22.44	22.31	
15	256QAM	1	0	20.93	20.86	20.81	20.58	20.78	22
15	256QAM	1	37	20.88	20.67	20.73	20.64	20.98	
15	256QAM	1	74	20.69	20.87	20.98	20.73	20.77	
15	256QAM	36	0	21.20	20.82	20.91	20.77	20.79	22
15	256QAM	36	20	21.05	20.81	20.99	20.55	20.75	
15	256QAM	36	39	20.80	20.76	20.85	20.98	20.68	



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15	256QAM	75	0	21.10	20.50	20.94	20.63	20.77	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.12	24.07	24.25	24.18	24.17	25.10
10	QPSK	1	25	24.07	24.04	24.14	24.19	24.07	
10	QPSK	1	49	24.15	24.09	24.11	24.21	24.13	
10	QPSK	25	0	24.20	24.14	24.22	24.11	24.14	25.1
10	QPSK	25	12	24.25	24.07	24.36	24.08	24.04	
10	QPSK	25	25	24.08	23.94	24.16	23.99	23.99	
10	QPSK	50	0	24.13	23.97	24.11	23.93	24.02	25.1
10	16QAM	1	0	23.90	24.34	24.30	24.16	24.29	
10	16QAM	1	25	24.00	24.10	24.21	24.13	24.16	
10	16QAM	1	49	23.94	24.15	24.17	23.90	24.13	25
10	16QAM	25	0	23.82	23.61	23.90	23.64	23.54	
10	16QAM	25	12	23.82	23.65	23.62	23.77	23.51	
10	16QAM	25	25	23.70	23.64	23.72	23.38	23.61	25
10	16QAM	50	0	23.49	23.66	23.74	23.34	23.49	
10	64QAM	1	0	23.61	23.48	23.80	23.44	23.42	
10	64QAM	1	25	23.46	23.57	23.79	23.70	23.87	25
10	64QAM	1	49	23.51	23.61	23.68	23.67	23.74	
10	64QAM	25	0	22.81	22.47	23.04	22.27	22.42	
10	64QAM	25	12	22.79	22.61	22.43	22.29	22.28	24
10	64QAM	25	25	22.58	22.31	22.92	22.60	22.46	
10	64QAM	50	0	22.76	22.59	22.53	22.35	22.58	
10	256QAM	1	0	20.79	20.82	21.13	20.84	20.79	22
10	256QAM	1	25	20.61	20.83	20.80	20.68	20.76	
10	256QAM	1	49	20.98	20.93	21.01	20.86	20.62	
10	256QAM	25	0	21.26	21.07	21.26	20.79	20.51	22
10	256QAM	25	12	20.98	20.86	20.84	20.66	20.69	
10	256QAM	25	25	20.89	20.75	21.01	20.55	20.54	
10	256QAM	50	0	20.92	20.81	20.91	20.82	20.45	
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	24.23	24.10	24.41	24.08	24.34	25.10
5	QPSK	1	12	24.20	24.05	24.16	24.19	24.19	
5	QPSK	1	24	24.02	23.94	24.12	24.21	24.09	
5	QPSK	12	0	24.17	24.21	24.33	24.07	24.02	25.1
5	QPSK	12	7	24.21	24.10	24.27	24.10	24.03	
5	QPSK	12	13	24.05	23.98	24.04	23.97	23.93	
5	QPSK	25	0	24.05	24.06	24.07	24.05	24.02	25.1
5	16QAM	1	0	24.24	24.11	24.26	24.20	24.11	
5	16QAM	1	12	24.20	23.94	23.97	24.25	23.93	
5	16QAM	1	24	24.30	24.06	24.05	24.00	23.97	25
5	16QAM	12	0	23.44	23.36	23.61	23.64	23.40	
5	16QAM	12	7	23.57	23.71	23.38	23.60	23.38	
5	16QAM	12	13	23.64	23.58	23.67	23.66	23.30	25
5	16QAM	25	0	23.87	23.72	23.42	23.47	23.65	
5	64QAM	1	0	23.52	23.56	23.76	23.73	23.54	
5	64QAM	1	12	23.60	23.37	23.63	23.34	23.38	25
5	64QAM	1	24	23.72	23.76	23.71	23.28	23.54	
5	64QAM	12	0	22.74	22.37	22.72	22.30	22.37	
5	64QAM	12	7	22.77	22.62	22.51	22.31	22.30	24
5	64QAM	12	13	22.38	22.38	22.72	22.52	22.05	
5	64QAM	25	0	22.88	22.50	22.77	22.14	22.51	
5	256QAM	1	0	20.79	20.47	20.98	20.69	20.61	22
5	256QAM	1	12	20.72	20.75	21.09	20.87	20.80	
5	256QAM	1	24	20.93	20.81	20.97	20.77	20.79	
5	256QAM	12	0	21.16	20.67	21.06	20.70	20.78	22
5	256QAM	12	7	20.87	20.86	20.85	20.78	20.78	
5	256QAM	12	13	20.87	20.89	21.07	20.96	20.58	
5	256QAM	25	0	20.93	20.86	20.94	20.61	20.65	

按一下這裡以輸入文字。



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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	23.87	23.96	23.92	23.86	25.3
20	QPSK	1	49	23.77	23.79	23.77	23.67	
20	QPSK	1	99	23.67	23.72	23.67	23.55	
20	QPSK	50	0	21.82	21.87	21.85	21.73	23.3
20	QPSK	50	24	21.78	21.83	21.79	21.67	
20	QPSK	50	50	21.74	21.75	21.72	21.59	
20	QPSK	100	0	21.79	21.83	21.80	21.69	24.3
20	16QAM	1	0	22.96	23.03	22.93	22.99	
20	16QAM	1	49	22.81	22.88	22.78	22.84	
20	16QAM	1	99	22.74	22.79	22.77	22.72	22.3
20	16QAM	50	0	20.84	20.88	20.85	20.74	
20	16QAM	50	24	20.78	20.82	20.77	20.68	
20	16QAM	50	50	20.74	20.78	20.75	20.61	23.3
20	16QAM	100	0	20.79	20.84	20.81	20.73	
20	64QAM	1	0	21.73	21.74	21.71	21.62	
20	64QAM	1	49	21.60	21.55	21.59	21.43	21.3
20	64QAM	1	99	21.54	21.52	21.50	21.34	
20	64QAM	50	0	19.82	19.86	19.86	19.78	
20	64QAM	50	24	19.80	19.85	19.81	19.70	20.3
20	64QAM	50	50	19.75	19.78	19.74	19.63	
20	64QAM	100	0	19.80	19.84	19.79	19.73	
20	256QAM	1	0	18.55	18.69	18.62	18.47	20.3
20	256QAM	1	49	18.41	18.71	18.43	18.30	
20	256QAM	1	99	18.34	18.62	18.44	18.24	
20	256QAM	50	0	18.60	18.87	18.67	18.54	20.3
20	256QAM	50	24	18.65	18.87	18.67	18.58	
20	256QAM	50	50	18.60	18.94	18.67	18.56	
20	256QAM	100	0	18.55	18.90	18.64	18.49	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.80	23.79	23.92	23.66	25.3
15	QPSK	1	37	23.65	23.76	23.61	23.62	
15	QPSK	1	74	23.57	23.59	23.65	23.51	
15	QPSK	36	0	21.82	21.80	21.80	21.55	23.3
15	QPSK	36	20	21.73	21.66	21.67	21.54	
15	QPSK	36	39	21.63	21.75	21.67	21.45	
15	QPSK	75	0	21.67	21.77	21.78	21.55	24.3
15	16QAM	1	0	22.90	22.88	22.78	22.86	
15	16QAM	1	37	22.61	22.70	22.58	22.81	
15	16QAM	1	74	22.54	22.63	22.61	22.56	22.3
15	16QAM	36	0	20.79	20.87	20.78	20.62	
15	16QAM	36	20	20.59	20.74	20.60	20.65	
15	16QAM	36	39	20.66	20.67	20.75	20.58	23.3
15	16QAM	75	0	20.59	20.64	20.74	20.68	
15	64QAM	1	0	21.66	21.71	21.67	21.48	
15	64QAM	1	37	21.52	21.51	21.46	21.41	21.3
15	64QAM	1	74	21.35	21.45	21.41	21.34	
15	64QAM	36	0	19.75	19.76	19.71	19.58	
15	64QAM	36	20	19.66	19.69	19.63	19.59	20.3
15	64QAM	36	39	19.62	19.63	19.59	19.60	
15	64QAM	75	0	19.61	19.69	19.77	19.60	
15	256QAM	1	0	18.53	18.64	18.50	18.33	20.3
15	256QAM	1	37	18.35	18.56	18.34	18.48	
15	256QAM	1	74	18.34	18.43	18.37	18.36	
15	256QAM	36	0	18.55	18.69	18.50	18.44	20.3
15	256QAM	36	20	18.49	18.75	18.65	18.51	
15	256QAM	36	39	18.48	18.76	18.51	18.37	



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15	256QAM	75	0	18.53	18.86	18.47	18.41	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.80	23.92	23.89	23.74	25.3
10	QPSK	1	25	23.73	23.79	23.70	23.62	
10	QPSK	1	49	23.62	23.66	23.53	23.36	
10	QPSK	25	0	21.62	21.84	21.70	21.62	23.3
10	QPSK	25	12	21.65	21.82	21.62	21.63	
10	QPSK	25	25	21.59	21.72	21.60	21.52	
10	QPSK	50	0	21.69	21.67	21.72	21.57	
10	16QAM	1	0	22.80	22.94	22.83	22.85	24.3
10	16QAM	1	25	22.74	22.75	22.77	22.65	
10	16QAM	1	49	22.54	22.59	22.69	22.52	
10	16QAM	25	0	20.81	20.88	20.69	20.62	22.3
10	16QAM	25	12	20.67	20.74	20.66	20.50	
10	16QAM	25	25	20.55	20.63	20.67	20.51	
10	16QAM	50	0	20.70	20.68	20.81	20.62	
10	64QAM	1	0	21.53	21.69	21.63	21.51	23.3
10	64QAM	1	25	21.40	21.44	21.43	21.39	
10	64QAM	1	49	21.53	21.48	21.35	21.41	
10	64QAM	25	0	19.72	19.72	19.70	19.70	21.3
10	64QAM	25	12	19.77	19.65	19.68	19.70	
10	64QAM	25	25	19.64	19.65	19.54	19.55	
10	64QAM	50	0	19.72	19.83	19.70	19.72	
10	256QAM	1	0	18.35	18.50	18.50	18.44	20.3
10	256QAM	1	25	18.38	18.68	18.33	18.33	
10	256QAM	1	49	18.32	18.51	18.30	18.31	
10	256QAM	25	0	18.60	18.74	18.55	18.37	20.3
10	256QAM	25	12	18.65	18.77	18.64	18.38	
10	256QAM	25	25	18.42	18.89	18.67	18.40	
10	256QAM	50	0	18.38	18.71	18.55	18.43	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.69	23.89	23.85	23.69	25.3
5	QPSK	1	12	23.60	23.79	23.65	23.49	
5	QPSK	1	24	23.49	23.52	23.49	23.55	
5	QPSK	12	0	21.68	21.70	21.84	21.66	23.3
5	QPSK	12	7	21.61	21.80	21.62	21.67	
5	QPSK	12	13	21.65	21.74	21.67	21.51	
5	QPSK	25	0	21.66	21.82	21.74	21.69	
5	16QAM	1	0	22.86	23.02	22.84	22.95	24.3
5	16QAM	1	12	22.65	22.68	22.64	22.65	
5	16QAM	1	24	22.56	22.76	22.57	22.69	
5	16QAM	12	0	20.81	20.88	20.67	20.56	22.3
5	16QAM	12	7	20.64	20.71	20.69	20.54	
5	16QAM	12	13	20.61	20.71	20.57	20.54	
5	16QAM	25	0	20.60	20.83	20.62	20.56	
5	64QAM	1	0	21.70	21.72	21.67	21.44	23.3
5	64QAM	1	12	21.45	21.43	21.41	21.39	
5	64QAM	1	24	21.54	21.48	21.32	21.48	
5	64QAM	12	0	19.64	19.76	19.77	19.65	21.3
5	64QAM	12	7	19.69	19.77	19.76	19.70	
5	64QAM	12	13	19.62	19.76	19.72	19.48	
5	64QAM	25	0	19.62	19.78	19.75	19.62	
5	256QAM	1	0	18.37	18.51	18.49	18.42	20.3
5	256QAM	1	12	18.47	18.58	18.34	18.37	
5	256QAM	1	24	18.48	18.59	18.45	18.37	
5	256QAM	12	0	18.51	18.79	18.53	18.50	20.3
5	256QAM	12	7	18.58	18.70	18.48	18.38	
5	256QAM	12	13	18.58	18.75	18.60	18.49	
5	256QAM	25	0	18.44	18.86	18.44	18.47	



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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	17.49	17.42	17.48	17.37	17.5
20	QPSK	1	49	17.45	17.41	17.44	17.37	
20	QPSK	1	99	17.43	17.33	17.33	17.35	
20	QPSK	50	0	17.48	17.43	17.46	17.41	17.5
20	QPSK	50	24	17.44	17.43	17.43	17.38	
20	QPSK	50	50	17.45	17.40	17.40	17.40	
20	QPSK	100	0	17.47	17.42	17.46	17.34	17.5
20	16QAM	1	0	17.42	17.40	17.40	17.38	
20	16QAM	1	49	17.46	17.47	17.47	17.36	
20	16QAM	1	99	17.40	17.40	17.40	17.41	17.5
20	16QAM	50	0	17.46	17.47	17.47	17.43	
20	16QAM	50	24	17.40	17.39	17.39	17.40	
20	16QAM	50	50	17.46	17.34	17.34	17.47	17.5
20	16QAM	100	0	17.43	17.41	17.41	17.36	
20	64QAM	1	0	17.47	17.41	17.41	17.37	
20	64QAM	1	49	17.47	17.43	17.43	17.44	17.5
20	64QAM	1	99	17.48	17.41	17.41	17.37	
20	64QAM	50	0	17.44	17.37	17.37	17.43	
20	64QAM	50	24	17.40	17.38	17.38	17.40	17.5
20	64QAM	50	50	17.44	17.42	17.42	17.37	
20	64QAM	100	0	17.40	17.36	17.36	17.38	
20	256QAM	1	0	17.47	17.38	17.38	17.39	17.5
20	256QAM	1	49	17.45	17.39	17.39	17.42	
20	256QAM	1	99	17.43	17.38	17.38	17.41	
20	256QAM	50	0	17.18	17.20	17.14	16.96	17.5
20	256QAM	50	24	17.04	17.16	17.09	16.93	
20	256QAM	50	50	17.00	17.04	17.02	16.88	
20	256QAM	100	0	17.07	17.05	17.10	16.88	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	17.40	17.41	17.44	17.18	17.5
15	QPSK	1	37	17.45	17.30	17.37	17.36	
15	QPSK	1	74	17.25	17.22	17.19	17.32	
15	QPSK	36	0	17.43	17.47	17.44	17.35	17.5
15	QPSK	36	20	17.36	17.29	17.27	17.35	
15	QPSK	36	39	17.33	17.38	17.40	17.20	
15	QPSK	75	0	17.42	17.34	17.47	17.14	17.5
15	16QAM	1	0	17.37	17.44	17.36	17.23	
15	16QAM	1	37	17.38	17.38	17.28	17.30	
15	16QAM	1	74	17.46	17.33	17.34	17.41	17.5
15	16QAM	36	0	17.35	17.28	17.46	17.41	
15	16QAM	36	20	17.30	17.32	17.38	17.38	
15	16QAM	36	39	17.38	17.17	17.20	17.29	17.5
15	16QAM	75	0	17.42	17.26	17.24	17.36	
15	64QAM	1	0	17.39	17.41	17.27	17.27	
15	64QAM	1	37	17.41	17.40	17.36	17.30	17.5
15	64QAM	1	74	17.46	17.37	17.31	17.20	
15	64QAM	36	0	17.42	17.26	17.33	17.33	
15	64QAM	36	20	17.45	17.31	17.31	17.31	17.5
15	64QAM	36	39	17.39	17.40	17.39	17.33	
15	64QAM	75	0	17.45	17.31	17.18	17.18	
15	256QAM	1	0	17.44	17.35	17.19	17.24	17.5
15	256QAM	1	37	17.44	17.32	17.21	17.34	
15	256QAM	1	74	17.36	17.30	17.23	17.35	
15	256QAM	36	0	17.07	17.13	16.97	16.87	17.5
15	256QAM	36	20	16.86	17.01	17.06	16.90	
15	256QAM	36	39	16.95	17.02	16.99	16.79	



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15	256QAM	75	0	16.95	16.86	17.04	16.83	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	17.41	17.45	17.33	17.31	17.5
10	QPSK	1	25	17.45	17.41	17.31	17.19	
10	QPSK	1	49	17.40	17.32	17.22	17.28	
10	QPSK	25	0	17.47	17.44	17.47	17.22	17.5
10	QPSK	25	12	17.41	17.31	17.27	17.35	
10	QPSK	25	25	17.29	17.34	17.46	17.28	
10	QPSK	50	0	17.48	17.48	17.46	17.32	
10	16QAM	1	0	17.44	17.44	17.37	17.36	17.5
10	16QAM	1	25	17.40	17.47	17.43	17.24	
10	16QAM	1	49	17.45	17.45	17.43	17.46	
10	16QAM	25	0	17.32	17.33	17.37	17.40	17.5
10	16QAM	25	12	17.43	17.29	17.26	17.20	
10	16QAM	25	25	17.43	17.27	17.33	17.35	
10	16QAM	50	0	17.33	17.29	17.41	17.22	
10	64QAM	1	0	17.32	17.29	17.34	17.30	17.5
10	64QAM	1	25	17.45	17.41	17.40	17.38	
10	64QAM	1	49	17.42	17.30	17.23	17.34	
10	64QAM	25	0	17.43	17.17	17.29	17.35	17.5
10	64QAM	25	12	17.44	17.34	17.35	17.36	
10	64QAM	25	25	17.26	17.39	17.44	17.27	
10	64QAM	50	0	17.41	17.26	17.31	17.21	
10	256QAM	1	0	17.46	17.32	17.26	17.29	17.5
10	256QAM	1	25	17.47	17.20	17.27	17.32	
10	256QAM	1	49	17.48	17.18	17.38	17.23	
10	256QAM	25	0	17.14	17.16	17.04	16.83	17.5
10	256QAM	25	12	16.90	17.15	16.97	16.93	
10	256QAM	25	25	16.84	16.91	16.87	16.73	
10	256QAM	50	0	16.92	16.86	16.93	16.71	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	17.39	17.33	17.44	17.35	17.5
5	QPSK	1	12	17.39	17.35	17.31	17.29	
5	QPSK	1	24	17.36	17.31	17.24	17.21	
5	QPSK	12	0	17.43	17.35	17.37	17.21	17.5
5	QPSK	12	7	17.35	17.26	17.26	17.36	
5	QPSK	12	13	17.29	17.45	17.44	17.34	
5	QPSK	25	0	17.42	17.31	17.36	17.20	
5	16QAM	1	0	17.41	17.38	17.31	17.29	17.5
5	16QAM	1	12	17.42	17.34	17.42	17.33	
5	16QAM	1	24	17.45	17.34	17.39	17.31	
5	16QAM	12	0	17.33	17.44	17.45	17.46	17.5
5	16QAM	12	7	17.38	17.39	17.33	17.36	
5	16QAM	12	13	17.40	17.24	17.30	17.41	
5	16QAM	25	0	17.40	17.22	17.23	17.25	
5	64QAM	1	0	17.33	17.30	17.34	17.26	17.5
5	64QAM	1	12	17.36	17.29	17.25	17.44	
5	64QAM	1	24	17.42	17.41	17.28	17.35	
5	64QAM	12	0	17.47	17.37	17.35	17.34	17.5
5	64QAM	12	7	17.42	17.30	17.24	17.32	
5	64QAM	12	13	17.41	17.42	17.40	17.31	
5	64QAM	25	0	17.43	17.21	17.21	17.18	
5	256QAM	1	0	17.37	17.27	17.36	17.34	17.5
5	256QAM	1	12	17.43	17.24	17.27	17.42	
5	256QAM	1	24	17.35	17.35	17.33	17.33	
5	256QAM	12	0	17.06	17.08	16.99	16.84	17.5
5	256QAM	12	7	17.04	17.06	16.94	16.81	
5	256QAM	12	13	16.92	16.90	16.94	16.76	
5	256QAM	25	0	17.07	16.85	16.97	16.74	



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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	22.28	22.27	22.15	22.10	22.3
20	QPSK	1	49	22.00	22.07	22.12	22.09	
20	QPSK	1	99	22.11	22.11	22.00	21.98	
20	QPSK	50	0	22.08	22.03	21.99	21.86	22.3
20	QPSK	50	24	21.94	21.94	21.93	21.79	
20	QPSK	50	50	21.87	21.90	21.85	21.71	
20	QPSK	100	0	21.90	21.98	21.92	21.81	22.3
20	16QAM	1	0	22.00	22.13	22.08	22.06	
20	16QAM	1	49	22.14	22.10	22.03	21.99	
20	16QAM	1	99	22.15	22.20	22.11	22.00	22.3
20	16QAM	50	0	21.00	21.02	20.98	20.89	
20	16QAM	50	24	20.94	20.97	20.90	20.81	
20	16QAM	50	50	20.88	20.90	20.86	20.74	22.3
20	16QAM	100	0	20.95	20.99	20.95	20.84	
20	64QAM	1	0	21.96	21.97	21.93	21.91	
20	64QAM	1	49	21.89	21.93	21.88	21.72	22.3
20	64QAM	1	99	21.79	21.77	21.70	21.55	
20	64QAM	50	0	19.98	20.01	20.01	19.88	
20	64QAM	50	24	19.95	19.97	19.93	19.82	21.3
20	64QAM	50	50	19.88	19.89	19.86	19.74	
20	64QAM	100	0	19.93	19.95	19.94	19.82	
20	256QAM	1	0	18.73	18.79	18.75	18.66	20.3
20	256QAM	1	49	18.53	18.85	18.55	18.45	
20	256QAM	1	99	18.45	18.82	18.57	18.34	
20	256QAM	50	0	18.73	19.06	18.80	18.67	20.3
20	256QAM	50	24	18.83	19.04	18.80	18.71	
20	256QAM	50	50	18.74	19.13	18.84	18.70	
20	256QAM	100	0	18.75	19.09	18.81	18.63	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.03	22.18	22.08	22.00	22.3
15	QPSK	1	37	21.84	22.06	21.97	22.08	
15	QPSK	1	74	21.99	22.11	21.89	21.87	
15	QPSK	36	0	21.89	21.95	21.81	21.70	22.3
15	QPSK	36	20	21.91	21.82	21.91	21.60	
15	QPSK	36	39	21.73	21.81	21.85	21.54	
15	QPSK	75	0	21.77	21.95	21.82	21.73	22.3
15	16QAM	1	0	21.98	21.95	22.05	22.02	
15	16QAM	1	37	22.00	22.03	21.91	21.81	
15	16QAM	1	74	22.08	22.20	21.95	21.94	22.3
15	16QAM	36	0	20.87	20.91	20.79	20.89	
15	16QAM	36	20	20.89	20.81	20.86	20.67	
15	16QAM	36	39	20.77	20.83	20.86	20.59	22.3
15	16QAM	75	0	20.84	20.84	20.84	20.65	
15	64QAM	1	0	21.90	21.87	21.77	21.78	
15	64QAM	1	37	21.89	21.77	21.80	21.69	22.3
15	64QAM	1	74	21.77	21.60	21.50	21.47	
15	64QAM	36	0	19.90	19.95	19.93	19.84	
15	64QAM	36	20	19.76	19.80	19.78	19.80	21.3
15	64QAM	36	39	19.72	19.81	19.78	19.61	
15	64QAM	75	0	19.81	19.85	19.91	19.64	
15	256QAM	1	0	18.70	18.74	18.68	18.66	20.3
15	256QAM	1	37	18.46	18.83	18.49	18.43	
15	256QAM	1	74	18.38	18.75	18.53	18.32	
15	256QAM	36	0	18.69	18.99	18.75	18.62	20.3
15	256QAM	36	20	18.82	19.00	18.77	18.67	
15	256QAM	36	39	18.68	19.08	18.76	18.60	



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15	256QAM	75	0	18.65	19.00	18.72	18.59	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.15	22.25	22.08	21.95	22.3
10	QPSK	1	25	21.89	22.02	22.04	21.94	
10	QPSK	1	49	21.92	21.99	21.99	21.89	
10	QPSK	25	0	21.95	21.88	21.87	21.75	22.3
10	QPSK	25	12	21.75	21.89	21.83	21.59	
10	QPSK	25	25	21.77	21.90	21.72	21.71	
10	QPSK	50	0	21.73	21.93	21.73	21.76	
10	16QAM	1	0	21.83	22.06	21.92	21.89	22.3
10	16QAM	1	25	21.95	22.05	21.98	21.98	
10	16QAM	1	49	22.09	22.13	22.08	21.88	
10	16QAM	25	0	20.82	20.85	20.93	20.79	22.3
10	16QAM	25	12	20.79	20.84	20.71	20.78	
10	16QAM	25	25	20.87	20.76	20.81	20.64	
10	16QAM	50	0	20.86	20.94	20.80	20.65	
10	64QAM	1	0	21.76	21.80	21.79	21.74	22.3
10	64QAM	1	25	21.77	21.93	21.68	21.53	
10	64QAM	1	49	21.79	21.59	21.50	21.45	
10	64QAM	25	0	19.89	19.83	19.99	19.79	21.3
10	64QAM	25	12	19.87	19.78	19.79	19.82	
10	64QAM	25	25	19.86	19.87	19.76	19.72	
10	64QAM	50	0	19.74	19.88	19.88	19.66	
10	256QAM	1	0	18.73	18.78	18.70	18.63	20.3
10	256QAM	1	25	18.44	18.78	18.50	18.40	
10	256QAM	1	49	18.41	18.79	18.53	18.32	
10	256QAM	25	0	18.70	19.06	18.77	18.65	20.3
10	256QAM	25	12	18.74	18.96	18.79	18.63	
10	256QAM	25	25	18.64	19.12	18.76	18.70	
10	256QAM	50	0	18.66	19.09	18.74	18.59	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.10	22.07	21.98	21.98	22.3
5	QPSK	1	12	21.82	21.90	22.10	21.94	
5	QPSK	1	24	22.07	21.91	21.81	21.92	
5	QPSK	12	0	21.94	21.85	21.93	21.80	22.3
5	QPSK	12	7	21.88	21.92	21.87	21.60	
5	QPSK	12	13	21.69	21.77	21.81	21.66	
5	QPSK	25	0	21.78	21.78	21.74	21.72	
5	16QAM	1	0	21.88	22.03	21.98	22.06	22.3
5	16QAM	1	12	22.12	22.05	22.00	21.81	
5	16QAM	1	24	22.13	22.00	22.01	21.93	
5	16QAM	12	0	20.83	20.87	20.86	20.83	22.3
5	16QAM	12	7	20.86	20.84	20.85	20.64	
5	16QAM	12	13	20.72	20.70	20.68	20.65	
5	16QAM	25	0	20.93	20.84	20.90	20.74	
5	64QAM	1	0	21.84	21.93	21.92	21.90	22.3
5	64QAM	1	12	21.88	21.85	21.88	21.63	
5	64QAM	1	24	21.75	21.67	21.51	21.50	
5	64QAM	12	0	19.87	19.85	19.84	19.83	21.3
5	64QAM	12	7	19.92	19.93	19.86	19.71	
5	64QAM	12	13	19.84	19.71	19.66	19.64	
5	64QAM	25	0	19.86	19.92	19.83	19.68	
5	256QAM	1	0	18.73	18.69	18.71	18.66	20.3
5	256QAM	1	12	18.52	18.81	18.49	18.37	
5	256QAM	1	24	18.35	18.72	18.47	18.39	
5	256QAM	12	0	18.70	18.98	18.76	18.66	20.3
5	256QAM	12	7	18.79	19.04	18.73	18.70	
5	256QAM	12	13	18.67	19.03	18.75	18.62	
5	256QAM	25	0	18.74	19.08	18.79	18.61	



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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	20.23	20.29	20.16	20.30	21.3
20	QPSK	1	49	20.03	20.17	20.09	19.84	
20	QPSK	1	99	20.02	20.10	20.00	19.76	
20	QPSK	50	0	20.20	20.13	20.11	20.25	21.3
20	QPSK	50	24	20.14	20.13	20.13	19.97	
20	QPSK	50	50	19.99	20.12	20.15	19.87	
20	QPSK	100	0	20.23	20.17	20.05	20.24	21.3
20	16QAM	1	0	20.25	20.19	20.24	20.24	
20	16QAM	1	49	20.21	20.20	20.14	20.07	
20	16QAM	1	99	20.13	20.20	20.02	19.87	21.3
20	16QAM	50	0	20.06	20.08	20.16	20.05	
20	16QAM	50	24	20.09	19.99	19.99	19.93	
20	16QAM	50	50	20.07	19.91	20.07	19.78	21.3
20	16QAM	100	0	19.99	20.14	20.04	19.99	
20	64QAM	1	0	20.18	20.16	20.13	19.72	
20	64QAM	1	49	20.15	20.15	19.90	19.66	21.3
20	64QAM	1	99	20.01	19.92	19.92	19.52	
20	64QAM	50	0	18.99	18.86	18.82	18.74	
20	64QAM	50	24	18.74	18.86	18.86	18.58	20.3
20	64QAM	50	50	18.85	18.86	18.72	18.64	
20	64QAM	100	0	18.83	18.80	18.89	18.67	
20	256QAM	1	0	17.63	17.67	17.56	17.42	19.3
20	256QAM	1	49	17.67	17.58	17.31	17.46	
20	256QAM	1	99	17.55	17.44	17.37	17.45	
20	256QAM	50	0	17.93	18.00	17.66	17.48	19.3
20	256QAM	50	24	17.87	17.93	17.68	17.52	
20	256QAM	50	50	17.84	17.80	17.72	17.50	
20	256QAM	100	0	17.85	17.81	17.59	17.37	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	20.12	20.17	20.28	20.08	21.3
15	QPSK	1	37	19.85	20.00	20.08	19.83	
15	QPSK	1	74	19.80	19.88	19.87	19.75	
15	QPSK	36	0	20.01	20.12	19.89	19.99	21.3
15	QPSK	36	20	19.93	19.85	20.07	19.91	
15	QPSK	36	39	20.09	19.93	20.04	19.88	
15	QPSK	75	0	19.94	20.02	20.02	19.80	21.3
15	16QAM	1	0	20.22	20.14	20.28	20.15	
15	16QAM	1	37	20.16	20.26	20.14	19.80	
15	16QAM	1	74	20.04	20.23	19.94	19.70	21.3
15	16QAM	36	0	20.04	20.02	20.04	19.87	
15	16QAM	36	20	19.95	19.79	19.88	19.86	
15	16QAM	36	39	19.76	19.94	19.89	19.64	21.3
15	16QAM	75	0	19.93	19.89	20.01	19.62	
15	64QAM	1	0	19.99	19.98	20.10	19.78	
15	64QAM	1	37	20.08	19.94	19.89	19.78	21.3
15	64QAM	1	74	19.78	19.87	19.63	19.74	
15	64QAM	36	0	18.81	18.91	18.75	18.56	
15	64QAM	36	20	18.66	18.69	18.83	18.48	20.3
15	64QAM	36	39	18.78	18.78	18.68	18.47	
15	64QAM	75	0	18.72	18.76	18.75	18.57	
15	256QAM	1	0	17.71	17.64	17.39	17.36	19.3
15	256QAM	1	37	17.59	17.45	17.43	17.38	
15	256QAM	1	74	17.39	17.42	17.43	17.47	
15	256QAM	36	0	17.84	17.79	17.45	17.53	19.3
15	256QAM	36	20	17.76	17.75	17.57	17.37	
15	256QAM	36	39	17.90	17.56	17.62	17.33	



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15	256QAM	75	0	17.76	17.56	17.54	17.40	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	20.25	20.26	20.08	20.15	21.3
10	QPSK	1	25	20.09	20.08	19.99	19.87	
10	QPSK	1	49	19.94	19.82	19.92	19.81	
10	QPSK	25	0	20.23	20.21	19.93	20.11	21.3
10	QPSK	25	12	20.02	19.91	19.90	19.96	
10	QPSK	25	25	19.98	19.85	20.06	19.82	
10	QPSK	50	0	19.94	20.13	20.03	19.88	
10	16QAM	1	0	20.25	20.18	20.16	20.28	21.3
10	16QAM	1	25	20.24	20.17	19.86	19.91	
10	16QAM	1	49	20.04	20.14	19.84	19.91	
10	16QAM	25	0	19.99	19.97	19.84	19.93	21.3
10	16QAM	25	12	19.92	19.83	19.99	19.78	
10	16QAM	25	25	19.80	19.89	20.02	19.74	
10	16QAM	50	0	19.95	19.95	20.05	19.74	
10	64QAM	1	0	20.10	20.06	20.08	19.85	21.3
10	64QAM	1	25	19.94	19.87	20.01	19.58	
10	64QAM	1	49	19.96	19.80	19.65	19.73	
10	64QAM	25	0	18.85	18.79	18.81	18.62	20.3
10	64QAM	25	12	18.77	18.84	18.73	18.68	
10	64QAM	25	25	18.69	18.78	18.77	18.58	
10	64QAM	50	0	18.80	18.88	18.76	18.55	
10	256QAM	1	0	17.51	17.51	17.44	17.50	19.3
10	256QAM	1	25	17.46	17.30	17.42	17.36	
10	256QAM	1	49	17.42	17.61	17.46	17.49	
10	256QAM	25	0	17.95	17.85	17.56	17.61	19.3
10	256QAM	25	12	17.75	17.85	17.56	17.33	
10	256QAM	25	25	17.63	17.69	17.59	17.44	
10	256QAM	50	0	17.80	17.54	17.50	17.44	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	20.10	20.19	20.19	20.13	21.3
5	QPSK	1	12	20.05	19.83	19.90	19.82	
5	QPSK	1	24	20.08	19.75	19.95	19.80	
5	QPSK	12	0	20.03	20.07	20.08	20.08	21.3
5	QPSK	12	7	19.99	20.00	20.01	19.90	
5	QPSK	12	13	20.00	20.00	19.77	19.83	
5	QPSK	25	0	19.96	19.96	19.99	19.93	
5	16QAM	1	0	20.23	20.26	20.07	20.14	21.3
5	16QAM	1	12	20.13	20.16	19.92	20.02	
5	16QAM	1	24	20.12	20.16	19.84	19.73	
5	16QAM	12	0	19.99	19.98	19.88	20.01	21.3
5	16QAM	12	7	20.05	19.93	20.03	19.73	
5	16QAM	12	13	19.92	19.76	19.95	19.65	
5	16QAM	25	0	19.92	19.91	19.96	19.68	
5	64QAM	1	0	19.90	20.09	20.06	19.77	21.3
5	64QAM	1	12	20.00	19.82	19.82	19.81	
5	64QAM	1	24	19.85	19.99	19.61	19.76	
5	64QAM	12	0	18.76	18.83	18.97	18.53	20.3
5	64QAM	12	7	18.72	18.72	18.74	18.42	
5	64QAM	12	13	18.79	18.52	18.56	18.48	
5	64QAM	25	0	18.78	18.65	18.71	18.52	
5	256QAM	1	0	17.55	17.52	17.47	17.31	19.3
5	256QAM	1	12	17.53	17.55	17.53	17.31	
5	256QAM	1	24	17.41	17.47	17.48	17.49	
5	256QAM	12	0	17.78	18.00	17.55	17.37	19.3
5	256QAM	12	7	17.70	17.88	17.70	17.55	
5	256QAM	12	13	17.78	17.82	17.69	17.45	
5	256QAM	25	0	17.69	17.77	17.48	17.41	



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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	22.28	22.27	22.15	22.10	23.1
20	QPSK	1	49	22.00	22.07	22.12	22.09	
20	QPSK	1	99	22.11	22.11	22.00	21.98	
20	QPSK	50	0	22.08	22.03	21.99	21.86	23.1
20	QPSK	50	24	21.94	21.94	21.93	21.79	
20	QPSK	50	50	21.87	21.90	21.85	21.71	
20	QPSK	100	0	21.90	21.98	21.92	21.81	23.1
20	16QAM	1	0	22.00	22.13	22.08	22.06	
20	16QAM	1	49	22.14	22.10	22.03	21.99	
20	16QAM	1	99	22.15	22.20	22.11	22.00	22.3
20	16QAM	50	0	21.00	21.02	20.98	20.89	
20	16QAM	50	24	20.94	20.97	20.90	20.81	
20	16QAM	50	50	20.88	20.90	20.86	20.74	23.1
20	16QAM	100	0	20.95	20.99	20.95	20.84	
20	64QAM	1	0	21.96	21.97	21.93	21.91	
20	64QAM	1	49	21.89	21.93	21.88	21.72	21.3
20	64QAM	1	99	21.79	21.77	21.70	21.55	
20	64QAM	50	0	19.98	20.01	20.01	19.88	
20	64QAM	50	24	19.95	19.97	19.93	19.82	20.3
20	64QAM	50	50	19.88	19.89	19.86	19.74	
20	64QAM	100	0	19.93	19.95	19.94	19.82	
20	256QAM	1	0	18.73	18.79	18.75	18.66	20.3
20	256QAM	1	49	18.53	18.85	18.55	18.45	
20	256QAM	1	99	18.45	18.82	18.57	18.34	
20	256QAM	50	0	18.73	19.06	18.80	18.67	20.3
20	256QAM	50	24	18.83	19.04	18.80	18.71	
20	256QAM	50	50	18.74	19.13	18.84	18.70	
20	256QAM	100	0	18.75	19.09	18.81	18.63	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.03	22.18	22.08	22.00	23.1
15	QPSK	1	37	21.84	22.06	21.97	22.08	
15	QPSK	1	74	21.99	22.11	21.89	21.87	
15	QPSK	36	0	21.89	21.95	21.81	21.70	23.1
15	QPSK	36	20	21.91	21.82	21.91	21.60	
15	QPSK	36	39	21.73	21.81	21.85	21.54	
15	QPSK	75	0	21.77	21.95	21.82	21.73	23.1
15	16QAM	1	0	21.98	21.95	22.05	22.02	
15	16QAM	1	37	22.00	22.03	21.91	21.81	
15	16QAM	1	74	22.08	22.20	21.95	21.94	22.3
15	16QAM	36	0	20.87	20.91	20.79	20.89	
15	16QAM	36	20	20.89	20.81	20.86	20.67	
15	16QAM	36	39	20.77	20.83	20.86	20.59	23.1
15	16QAM	75	0	20.84	20.84	20.84	20.65	
15	64QAM	1	0	21.90	21.87	21.77	21.78	
15	64QAM	1	37	21.89	21.77	21.80	21.69	21.3
15	64QAM	1	74	21.77	21.60	21.50	21.47	
15	64QAM	36	0	19.90	19.95	19.93	19.84	
15	64QAM	36	20	19.76	19.80	19.78	19.80	20.3
15	64QAM	36	39	19.72	19.81	19.78	19.61	
15	64QAM	75	0	19.81	19.85	19.91	19.64	
15	256QAM	1	0	18.70	18.74	18.68	18.66	20.3
15	256QAM	1	37	18.46	18.83	18.49	18.43	
15	256QAM	1	74	18.38	18.75	18.53	18.32	
15	256QAM	36	0	18.69	18.99	18.75	18.62	20.3
15	256QAM	36	20	18.82	19.00	18.77	18.67	
15	256QAM	36	39	18.68	19.08	18.76	18.60	



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15	256QAM	75	0	18.65	19.00	18.72	18.59	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.15	22.25	22.08	21.95	23.1
10	QPSK	1	25	21.89	22.02	22.04	21.94	
10	QPSK	1	49	21.92	21.99	21.99	21.89	
10	QPSK	25	0	21.95	21.88	21.87	21.75	23.1
10	QPSK	25	12	21.75	21.89	21.83	21.59	
10	QPSK	25	25	21.77	21.90	21.72	21.71	
10	QPSK	50	0	21.73	21.93	21.73	21.76	
10	16QAM	1	0	21.83	22.06	21.92	21.89	23.1
10	16QAM	1	25	21.95	22.05	21.98	21.98	
10	16QAM	1	49	22.09	22.13	22.08	21.88	
10	16QAM	25	0	20.82	20.85	20.93	20.79	22.3
10	16QAM	25	12	20.79	20.84	20.71	20.78	
10	16QAM	25	25	20.87	20.76	20.81	20.64	
10	16QAM	50	0	20.86	20.94	20.80	20.65	
10	64QAM	1	0	21.76	21.80	21.79	21.74	23.1
10	64QAM	1	25	21.77	21.93	21.68	21.53	
10	64QAM	1	49	21.79	21.59	21.50	21.45	
10	64QAM	25	0	19.89	19.83	19.99	19.79	21.3
10	64QAM	25	12	19.87	19.78	19.79	19.82	
10	64QAM	25	25	19.86	19.87	19.76	19.72	
10	64QAM	50	0	19.74	19.88	19.88	19.66	
10	256QAM	1	0	18.73	18.78	18.70	18.63	20.3
10	256QAM	1	25	18.44	18.78	18.50	18.40	
10	256QAM	1	49	18.41	18.79	18.53	18.32	
10	256QAM	25	0	18.70	19.06	18.77	18.65	20.3
10	256QAM	25	12	18.74	18.96	18.79	18.63	
10	256QAM	25	25	18.64	19.12	18.76	18.70	
10	256QAM	50	0	18.66	19.09	18.74	18.59	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.10	22.07	21.98	21.98	23.1
5	QPSK	1	12	21.82	21.90	22.10	21.94	
5	QPSK	1	24	22.07	21.91	21.81	21.92	
5	QPSK	12	0	21.94	21.85	21.93	21.80	23.1
5	QPSK	12	7	21.88	21.92	21.87	21.60	
5	QPSK	12	13	21.69	21.77	21.81	21.66	
5	QPSK	25	0	21.78	21.78	21.74	21.72	
5	16QAM	1	0	21.88	22.03	21.98	22.06	23.1
5	16QAM	1	12	22.12	22.05	22.00	21.81	
5	16QAM	1	24	22.13	22.00	22.01	21.93	
5	16QAM	12	0	20.83	20.87	20.86	20.83	22.3
5	16QAM	12	7	20.86	20.84	20.85	20.64	
5	16QAM	12	13	20.72	20.70	20.68	20.65	
5	16QAM	25	0	20.93	20.84	20.90	20.74	
5	64QAM	1	0	21.84	21.93	21.92	21.90	23.1
5	64QAM	1	12	21.88	21.85	21.88	21.63	
5	64QAM	1	24	21.75	21.67	21.51	21.50	
5	64QAM	12	0	19.87	19.85	19.84	19.83	21.3
5	64QAM	12	7	19.92	19.93	19.86	19.71	
5	64QAM	12	13	19.84	19.71	19.66	19.64	
5	64QAM	25	0	19.86	19.92	19.83	19.68	
5	256QAM	1	0	18.73	18.69	18.71	18.66	20.3
5	256QAM	1	12	18.52	18.81	18.49	18.37	
5	256QAM	1	24	18.35	18.72	18.47	18.39	
5	256QAM	12	0	18.70	18.98	18.76	18.66	20.3
5	256QAM	12	7	18.79	19.04	18.73	18.70	
5	256QAM	12	13	18.67	19.03	18.75	18.62	
5	256QAM	25	0	18.74	19.08	18.79	18.61	



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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	22.01	21.98	21.95	22.03	23.3
20	QPSK	1	49	21.82	21.78	21.76	21.61	
20	QPSK	1	99	21.77	21.73	21.72	21.53	
20	QPSK	50	0	20.88	20.86	20.86	20.95	22.3
20	QPSK	50	24	20.81	20.81	20.83	20.68	
20	QPSK	50	50	20.75	20.77	20.75	20.58	
20	QPSK	100	0	20.87	20.81	20.84	20.89	23.3
20	16QAM	1	0	21.95	21.97	21.95	21.96	
20	16QAM	1	49	21.92	21.96	21.83	21.76	
20	16QAM	1	99	21.89	21.91	21.70	21.65	21.3
20	16QAM	50	0	19.87	19.88	19.88	19.76	
20	16QAM	50	24	19.84	19.87	19.86	19.66	
20	16QAM	50	50	19.80	19.79	19.77	19.61	22.3
20	16QAM	100	0	19.87	19.86	19.87	19.71	
20	64QAM	1	0	20.90	20.87	20.86	20.51	
20	64QAM	1	49	20.77	20.75	20.69	20.33	20.3
20	64QAM	1	99	20.71	20.70	20.56	20.31	
20	64QAM	50	0	18.91	18.91	18.90	18.75	
20	64QAM	50	24	18.84	18.86	18.83	18.67	19.3
20	64QAM	50	50	18.78	18.81	18.79	18.59	
20	64QAM	100	0	18.87	18.85	18.83	18.67	
20	256QAM	1	0	17.68	17.58	17.49	17.32	19.3
20	256QAM	1	49	17.58	17.57	17.38	17.34	
20	256QAM	1	99	17.54	17.53	17.37	17.31	
20	256QAM	50	0	17.94	17.91	17.69	17.52	19.3
20	256QAM	50	24	17.89	17.87	17.68	17.56	
20	256QAM	50	50	17.89	17.85	17.70	17.49	
20	256QAM	100	0	17.80	17.77	17.59	17.45	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.88	21.86	21.88	21.84	23.3
15	QPSK	1	37	21.64	21.76	21.75	21.53	
15	QPSK	1	74	21.58	21.58	21.67	21.43	
15	QPSK	36	0	20.68	20.78	20.66	20.71	22.3
15	QPSK	36	20	20.61	20.64	20.68	20.61	
15	QPSK	36	39	20.75	20.57	20.66	20.52	
15	QPSK	75	0	20.67	20.73	20.64	20.49	23.3
15	16QAM	1	0	21.93	21.90	21.89	21.91	
15	16QAM	1	37	21.82	21.91	21.80	21.57	
15	16QAM	1	74	21.79	21.89	21.61	21.46	21.3
15	16QAM	36	0	19.80	19.78	19.75	19.73	
15	16QAM	36	20	19.68	19.67	19.74	19.66	
15	16QAM	36	39	19.60	19.68	19.70	19.44	22.3
15	16QAM	75	0	19.75	19.73	19.74	19.51	
15	64QAM	1	0	20.78	20.76	20.76	20.38	
15	64QAM	1	37	20.68	20.68	20.69	20.43	20.3
15	64QAM	1	74	20.58	20.55	20.41	20.46	
15	64QAM	36	0	18.75	18.87	18.73	18.55	
15	64QAM	36	20	18.72	18.69	18.79	18.47	19.3
15	64QAM	36	39	18.69	18.76	18.70	18.41	
15	64QAM	75	0	18.68	18.78	18.70	18.52	
15	256QAM	1	0	17.61	17.56	17.35	17.31	19.3
15	256QAM	1	37	17.57	17.52	17.44	17.34	
15	256QAM	1	74	17.35	17.42	17.48	17.47	
15	256QAM	36	0	17.87	17.79	17.53	17.45	19.3
15	256QAM	36	20	17.86	17.74	17.52	17.41	
15	256QAM	36	39	17.88	17.65	17.64	17.35	



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15	256QAM	75	0	17.78	17.61	17.54	17.47	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.87	21.97	21.86	21.85	23.3
10	QPSK	1	25	21.77	21.68	21.74	21.49	
10	QPSK	1	49	21.59	21.53	21.66	21.48	
10	QPSK	25	0	20.83	20.83	20.71	20.89	22.3
10	QPSK	25	12	20.64	20.69	20.70	20.62	
10	QPSK	25	25	20.71	20.58	20.71	20.47	
10	QPSK	50	0	20.67	20.81	20.64	20.51	
10	16QAM	1	0	21.90	21.96	21.94	21.91	23.3
10	16QAM	1	25	21.85	21.84	21.63	21.69	
10	16QAM	1	49	21.76	21.80	21.52	21.54	
10	16QAM	25	0	19.82	19.76	19.73	19.69	21.3
10	16QAM	25	12	19.66	19.67	19.75	19.55	
10	16QAM	25	25	19.60	19.74	19.75	19.52	
10	16QAM	50	0	19.84	19.73	19.82	19.51	
10	64QAM	1	0	20.79	20.68	20.75	20.47	22.3
10	64QAM	1	25	20.63	20.55	20.62	20.35	
10	64QAM	1	49	20.66	20.52	20.38	20.38	
10	64QAM	25	0	18.88	18.85	18.72	18.57	20.3
10	64QAM	25	12	18.73	18.80	18.75	18.66	
10	64QAM	25	25	18.74	18.78	18.69	18.51	
10	64QAM	50	0	18.75	18.79	18.74	18.61	
10	256QAM	1	0	17.59	17.41	17.43	17.42	19.3
10	256QAM	1	25	17.48	17.40	17.40	17.39	
10	256QAM	1	49	17.40	17.52	17.30	17.31	
10	256QAM	25	0	17.92	17.86	17.65	17.52	19.3
10	256QAM	25	12	17.76	17.83	17.57	17.43	
10	256QAM	25	25	17.72	17.70	17.62	17.30	
10	256QAM	50	0	17.74	17.64	17.41	17.35	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.81	21.87	21.84	21.83	23.3
5	QPSK	1	12	21.74	21.61	21.67	21.47	
5	QPSK	1	24	21.77	21.54	21.69	21.45	
5	QPSK	12	0	20.71	20.69	20.81	20.74	22.3
5	QPSK	12	7	20.79	20.64	20.72	20.52	
5	QPSK	12	13	20.71	20.70	20.56	20.43	
5	QPSK	25	0	20.76	20.74	20.65	20.65	
5	16QAM	1	0	21.97	21.97	21.87	21.88	23.3
5	16QAM	1	12	21.83	21.76	21.64	21.73	
5	16QAM	1	24	21.74	21.76	21.51	21.51	
5	16QAM	12	0	19.72	19.81	19.75	19.72	21.3
5	16QAM	12	7	19.79	19.76	19.80	19.48	
5	16QAM	12	13	19.80	19.64	19.77	19.54	
5	16QAM	25	0	19.72	19.78	19.78	19.51	
5	64QAM	1	0	20.70	20.85	20.78	20.40	22.3
5	64QAM	1	12	20.74	20.62	20.61	20.45	
5	64QAM	1	24	20.64	20.68	20.39	20.37	
5	64QAM	12	0	18.72	18.75	18.89	18.63	20.3
5	64QAM	12	7	18.67	18.78	18.75	18.50	
5	64QAM	12	13	18.75	18.61	18.61	18.43	
5	64QAM	25	0	18.77	18.71	18.74	18.57	
5	256QAM	1	0	17.55	17.55	17.39	17.36	19.3
5	256QAM	1	12	17.43	17.53	17.47	17.41	
5	256QAM	1	24	17.39	17.41	17.34	17.39	
5	256QAM	12	0	17.75	17.91	17.61	17.43	19.3
5	256QAM	12	7	17.73	17.87	17.66	17.51	
5	256QAM	12	13	17.73	17.81	17.64	17.49	
5	256QAM	25	0	17.76	17.77	17.43	17.40	



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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	22.28	22.27	22.15	22.10	22.3
20	QPSK	1	49	22.00	22.07	22.12	22.09	
20	QPSK	1	99	22.11	22.11	22.00	21.98	
20	QPSK	50	0	22.08	22.03	21.99	21.86	22.3
20	QPSK	50	24	21.94	21.94	21.93	21.79	
20	QPSK	50	50	21.87	21.90	21.85	21.71	
20	QPSK	100	0	21.90	21.98	21.92	21.81	22.3
20	16QAM	1	0	22.00	22.13	22.08	22.06	
20	16QAM	1	49	22.14	22.10	22.03	21.99	
20	16QAM	1	99	22.15	22.20	22.11	22.00	22.3
20	16QAM	50	0	21.00	21.02	20.98	20.89	
20	16QAM	50	24	20.94	20.97	20.90	20.81	
20	16QAM	50	50	20.88	20.90	20.86	20.74	22.3
20	16QAM	100	0	20.95	20.99	20.95	20.84	
20	64QAM	1	0	21.96	21.97	21.93	21.91	
20	64QAM	1	49	21.89	21.93	21.88	21.72	22.3
20	64QAM	1	99	21.79	21.77	21.70	21.55	
20	64QAM	50	0	19.98	20.01	20.01	19.88	
20	64QAM	50	24	19.95	19.97	19.93	19.82	21.3
20	64QAM	50	50	19.88	19.89	19.86	19.74	
20	64QAM	100	0	19.93	19.95	19.94	19.82	
20	256QAM	1	0	18.73	18.79	18.75	18.66	20.3
20	256QAM	1	49	18.53	18.85	18.55	18.45	
20	256QAM	1	99	18.45	18.82	18.57	18.34	
20	256QAM	50	0	18.73	19.06	18.80	18.67	20.3
20	256QAM	50	24	18.83	19.04	18.80	18.71	
20	256QAM	50	50	18.74	19.13	18.84	18.70	
20	256QAM	100	0	18.75	19.09	18.81	18.63	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	22.03	22.18	22.08	22.00	22.3
15	QPSK	1	37	21.84	22.06	21.97	22.08	
15	QPSK	1	74	21.99	22.11	21.89	21.87	
15	QPSK	36	0	21.89	21.95	21.81	21.70	22.3
15	QPSK	36	20	21.91	21.82	21.91	21.60	
15	QPSK	36	39	21.73	21.81	21.85	21.54	
15	QPSK	75	0	21.77	21.95	21.82	21.73	22.3
15	16QAM	1	0	21.98	21.95	22.05	22.02	
15	16QAM	1	37	22.00	22.03	21.91	21.81	
15	16QAM	1	74	22.08	22.20	21.95	21.94	22.3
15	16QAM	36	0	20.87	20.91	20.79	20.89	
15	16QAM	36	20	20.89	20.81	20.86	20.67	
15	16QAM	36	39	20.77	20.83	20.86	20.59	22.3
15	16QAM	75	0	20.84	20.84	20.84	20.65	
15	64QAM	1	0	21.90	21.87	21.77	21.78	
15	64QAM	1	37	21.89	21.77	21.80	21.69	22.3
15	64QAM	1	74	21.77	21.60	21.50	21.47	
15	64QAM	36	0	19.90	19.95	19.93	19.84	
15	64QAM	36	20	19.76	19.80	19.78	19.80	21.3
15	64QAM	36	39	19.72	19.81	19.78	19.61	
15	64QAM	75	0	19.81	19.85	19.91	19.64	
15	256QAM	1	0	18.70	18.74	18.68	18.66	20.3
15	256QAM	1	37	18.46	18.83	18.49	18.43	
15	256QAM	1	74	18.38	18.75	18.53	18.32	
15	256QAM	36	0	18.69	18.99	18.75	18.62	20.3
15	256QAM	36	20	18.82	19.00	18.77	18.67	
15	256QAM	36	39	18.68	19.08	18.76	18.60	



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15	256QAM	75	0	18.65	19.00	18.72	18.59	
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	22.15	22.25	22.08	21.95	22.3
10	QPSK	1	25	21.89	22.02	22.04	21.94	
10	QPSK	1	49	21.92	21.99	21.99	21.89	
10	QPSK	25	0	21.95	21.88	21.87	21.75	22.3
10	QPSK	25	12	21.75	21.89	21.83	21.59	
10	QPSK	25	25	21.77	21.90	21.72	21.71	
10	QPSK	50	0	21.73	21.93	21.73	21.76	
10	16QAM	1	0	21.83	22.06	21.92	21.89	22.3
10	16QAM	1	25	21.95	22.05	21.98	21.98	
10	16QAM	1	49	22.09	22.13	22.08	21.88	
10	16QAM	25	0	20.82	20.85	20.93	20.79	22.3
10	16QAM	25	12	20.79	20.84	20.71	20.78	
10	16QAM	25	25	20.87	20.76	20.81	20.64	
10	16QAM	50	0	20.86	20.94	20.80	20.65	
10	64QAM	1	0	21.76	21.80	21.79	21.74	22.3
10	64QAM	1	25	21.77	21.93	21.68	21.53	
10	64QAM	1	49	21.79	21.59	21.50	21.45	
10	64QAM	25	0	19.89	19.83	19.99	19.79	21.3
10	64QAM	25	12	19.87	19.78	19.79	19.82	
10	64QAM	25	25	19.86	19.87	19.76	19.72	
10	64QAM	50	0	19.74	19.88	19.88	19.66	
10	256QAM	1	0	18.73	18.78	18.70	18.63	20.3
10	256QAM	1	25	18.44	18.78	18.50	18.40	
10	256QAM	1	49	18.41	18.79	18.53	18.32	
10	256QAM	25	0	18.70	19.06	18.77	18.65	20.3
10	256QAM	25	12	18.74	18.96	18.79	18.63	
10	256QAM	25	25	18.64	19.12	18.76	18.70	
10	256QAM	50	0	18.66	19.09	18.74	18.59	
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	22.10	22.07	21.98	21.98	22.3
5	QPSK	1	12	21.82	21.90	22.10	21.94	
5	QPSK	1	24	22.07	21.91	21.81	21.92	
5	QPSK	12	0	21.94	21.85	21.93	21.80	22.3
5	QPSK	12	7	21.88	21.92	21.87	21.60	
5	QPSK	12	13	21.69	21.77	21.81	21.66	
5	QPSK	25	0	21.78	21.78	21.74	21.72	
5	16QAM	1	0	21.88	22.03	21.98	22.06	22.3
5	16QAM	1	12	22.12	22.05	22.00	21.81	
5	16QAM	1	24	22.13	22.00	22.01	21.93	
5	16QAM	12	0	20.83	20.87	20.86	20.83	22.3
5	16QAM	12	7	20.86	20.84	20.85	20.64	
5	16QAM	12	13	20.72	20.70	20.68	20.65	
5	16QAM	25	0	20.93	20.84	20.90	20.74	
5	64QAM	1	0	21.84	21.93	21.92	21.90	22.3
5	64QAM	1	12	21.88	21.85	21.88	21.63	
5	64QAM	1	24	21.75	21.67	21.51	21.50	
5	64QAM	12	0	19.87	19.85	19.84	19.83	21.3
5	64QAM	12	7	19.92	19.93	19.86	19.71	
5	64QAM	12	13	19.84	19.71	19.66	19.64	
5	64QAM	25	0	19.86	19.92	19.83	19.68	
5	256QAM	1	0	18.73	18.69	18.71	18.66	20.3
5	256QAM	1	12	18.52	18.81	18.49	18.37	
5	256QAM	1	24	18.35	18.72	18.47	18.39	
5	256QAM	12	0	18.70	18.98	18.76	18.66	20.3
5	256QAM	12	7	18.79	19.04	18.73	18.70	
5	256QAM	12	13	18.67	19.03	18.75	18.62	
5	256QAM	25	0	18.74	19.08	18.79	18.61	



<LTE Band 48_Ant 1_Index 11>

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	22.01	21.98	21.95	22.03	22.5
20	QPSK	1	49	21.82	21.78	21.76	21.61	
20	QPSK	1	99	21.77	21.73	21.72	21.53	
20	QPSK	50	0	20.88	20.86	20.86	20.95	22.3
20	QPSK	50	24	20.81	20.81	20.83	20.68	
20	QPSK	50	50	20.75	20.77	20.75	20.58	
20	QPSK	100	0	20.87	20.81	20.84	20.89	22.5
20	16QAM	1	0	21.95	21.97	21.95	21.96	
20	16QAM	1	49	21.92	21.96	21.83	21.76	
20	16QAM	1	99	21.89	21.91	21.70	21.65	21.3
20	16QAM	50	0	19.87	19.88	19.88	19.76	
20	16QAM	50	24	19.84	19.87	19.86	19.66	
20	16QAM	50	50	19.80	19.79	19.77	19.61	22.3
20	16QAM	100	0	19.87	19.86	19.87	19.71	
20	64QAM	1	0	20.90	20.87	20.86	20.51	
20	64QAM	1	49	20.77	20.75	20.69	20.33	20.3
20	64QAM	1	99	20.71	20.70	20.56	20.31	
20	64QAM	50	0	18.91	18.91	18.90	18.75	
20	64QAM	50	24	18.84	18.86	18.83	18.67	19.3
20	64QAM	50	50	18.78	18.81	18.79	18.59	
20	64QAM	100	0	18.87	18.85	18.83	18.67	
20	256QAM	1	0	17.68	17.58	17.49	17.32	19.3
20	256QAM	1	49	17.58	17.57	17.38	17.34	
20	256QAM	1	99	17.54	17.53	17.37	17.31	
20	256QAM	50	0	17.94	17.91	17.69	17.52	19.3
20	256QAM	50	24	17.89	17.87	17.68	17.56	
20	256QAM	50	50	17.89	17.85	17.70	17.49	
20	256QAM	100	0	17.80	17.77	17.59	17.45	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.88	21.86	21.88	21.84	22.5
15	QPSK	1	37	21.64	21.76	21.75	21.53	
15	QPSK	1	74	21.58	21.58	21.67	21.43	
15	QPSK	36	0	20.68	20.78	20.66	20.71	22.3
15	QPSK	36	20	20.61	20.64	20.68	20.61	
15	QPSK	36	39	20.75	20.57	20.66	20.52	
15	QPSK	75	0	20.67	20.73	20.64	20.49	22.5
15	16QAM	1	0	21.93	21.90	21.89	21.91	
15	16QAM	1	37	21.82	21.91	21.80	21.57	
15	16QAM	1	74	21.79	21.89	21.61	21.46	21.3
15	16QAM	36	0	19.80	19.78	19.75	19.73	
15	16QAM	36	20	19.68	19.67	19.74	19.66	
15	16QAM	36	39	19.60	19.68	19.70	19.44	22.3
15	16QAM	75	0	19.75	19.73	19.74	19.51	
15	64QAM	1	0	20.78	20.76	20.76	20.38	
15	64QAM	1	37	20.68	20.68	20.69	20.43	20.3
15	64QAM	1	74	20.58	20.55	20.41	20.46	
15	64QAM	36	0	18.75	18.87	18.73	18.55	
15	64QAM	36	20	18.72	18.69	18.79	18.47	19.3
15	64QAM	36	39	18.69	18.76	18.70	18.41	
15	64QAM	75	0	18.68	18.78	18.70	18.52	
15	256QAM	1	0	17.61	17.56	17.35	17.31	19.3
15	256QAM	1	37	17.57	17.52	17.44	17.34	
15	256QAM	1	74	17.35	17.42	17.48	17.47	
15	256QAM	36	0	17.87	17.79	17.53	17.45	19.3
15	256QAM	36	20	17.86	17.74	17.52	17.41	
15	256QAM	36	39	17.88	17.65	17.64	17.35	



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15	256QAM	75	0	17.78	17.61	17.54	17.47	
Channel				55290	55815	56165	56690	Tune-up limit
Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)
10	QPSK	1	0	21.87	21.97	21.86	21.85	22.5
10	QPSK	1	25	21.77	21.68	21.74	21.49	
10	QPSK	1	49	21.59	21.53	21.66	21.48	
10	QPSK	25	0	20.83	20.83	20.71	20.89	22.3
10	QPSK	25	12	20.64	20.69	20.70	20.62	
10	QPSK	25	25	20.71	20.58	20.71	20.47	
10	QPSK	50	0	20.67	20.81	20.64	20.51	
10	16QAM	1	0	21.90	21.96	21.94	21.91	22.5
10	16QAM	1	25	21.85	21.84	21.63	21.69	
10	16QAM	1	49	21.76	21.80	21.52	21.54	
10	16QAM	25	0	19.82	19.76	19.73	19.69	21.3
10	16QAM	25	12	19.66	19.67	19.75	19.55	
10	16QAM	25	25	19.60	19.74	19.75	19.52	
10	16QAM	50	0	19.84	19.73	19.82	19.51	
10	64QAM	1	0	20.79	20.68	20.75	20.47	22.3
10	64QAM	1	25	20.63	20.55	20.62	20.35	
10	64QAM	1	49	20.66	20.52	20.38	20.38	
10	64QAM	25	0	18.88	18.85	18.72	18.57	20.3
10	64QAM	25	12	18.73	18.80	18.75	18.66	
10	64QAM	25	25	18.74	18.78	18.69	18.51	
10	64QAM	50	0	18.75	18.79	18.74	18.61	
10	256QAM	1	0	17.59	17.41	17.43	17.42	19.3
10	256QAM	1	25	17.48	17.40	17.40	17.39	
10	256QAM	1	49	17.40	17.52	17.30	17.31	
10	256QAM	25	0	17.92	17.86	17.65	17.52	19.3
10	256QAM	25	12	17.76	17.83	17.57	17.43	
10	256QAM	25	25	17.72	17.70	17.62	17.30	
10	256QAM	50	0	17.74	17.64	17.41	17.35	
Channel				55265	55810	56170	56715	Tune-up limit
Frequency (MHz)				3552.5	3607	3643	3697.5	(dBm)
5	QPSK	1	0	21.81	21.87	21.84	21.83	22.5
5	QPSK	1	12	21.74	21.61	21.67	21.47	
5	QPSK	1	24	21.77	21.54	21.69	21.45	
5	QPSK	12	0	20.71	20.69	20.81	20.74	22.3
5	QPSK	12	7	20.79	20.64	20.72	20.52	
5	QPSK	12	13	20.71	20.70	20.56	20.43	
5	QPSK	25	0	20.76	20.74	20.65	20.65	
5	16QAM	1	0	21.97	21.97	21.87	21.88	22.5
5	16QAM	1	12	21.83	21.76	21.64	21.73	
5	16QAM	1	24	21.74	21.76	21.51	21.51	
5	16QAM	12	0	19.72	19.81	19.75	19.72	21.3
5	16QAM	12	7	19.79	19.76	19.80	19.48	
5	16QAM	12	13	19.80	19.64	19.77	19.54	
5	16QAM	25	0	19.72	19.78	19.78	19.51	
5	64QAM	1	0	20.70	20.85	20.78	20.40	22.3
5	64QAM	1	12	20.74	20.62	20.61	20.45	
5	64QAM	1	24	20.64	20.68	20.39	20.37	
5	64QAM	12	0	18.72	18.75	18.89	18.63	20.3
5	64QAM	12	7	18.67	18.78	18.75	18.50	
5	64QAM	12	13	18.75	18.61	18.61	18.43	
5	64QAM	25	0	18.77	18.71	18.74	18.57	
5	256QAM	1	0	17.55	17.55	17.39	17.36	19.3
5	256QAM	1	12	17.43	17.53	17.47	17.41	
5	256QAM	1	24	17.39	17.41	17.34	17.39	
5	256QAM	12	0	17.75	17.91	17.61	17.43	19.3
5	256QAM	12	7	17.73	17.87	17.66	17.51	
5	256QAM	12	13	17.73	17.81	17.64	17.49	
5	256QAM	25	0	17.76	17.77	17.43	17.40	

<5G NR Conducted Power>

General Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - d. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR TDD power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission
3. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing.

<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

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

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

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

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

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



<FR1 n2_Ant 2_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	24.17	24.12	24.10	25.3
40	PI/2 BPSK	1	108	24.16	24.12	24.02	
40	PI/2 BPSK	1	214	23.93	23.98	23.88	
40	PI/2 BPSK	108	0	23.50	23.53	23.41	24.8
40	PI/2 BPSK	108	54	23.97	24.02	23.98	25.3
40	PI/2 BPSK	108	108	23.50	23.52	23.42	24.8
40	PI/2 BPSK	216	0	23.52	23.49	23.43	
40	QPSK	1	1	24.04	24.08	24.04	25.3
40	QPSK	1	108	24.10	24.08	24.03	
40	QPSK	1	214	24.03	23.99	23.90	
40	QPSK	108	0	23.01	23.02	22.98	24.3
40	QPSK	108	54	24.00	24.02	23.96	25.3
40	QPSK	108	108	22.92	22.93	22.81	24.3
40	QPSK	216	0	23.14	23.09	22.98	
40	16QAM	1	1	23.12	23.13	23.02	24.3
40	64QAM	1	1	21.56	21.57	21.51	22.8
40	256QAM	1	1	19.67	19.68	19.64	20.8
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	24.07	24.05	24.02	25.3
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	24.02	24.04	23.98	25.3
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.13	23.93	23.91	25.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.04	24.02	24.00	25.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.08	24.01	23.95	25.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.15	24.09	24.01	25.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	15.93	15.90	15.86	16.5
40	PI/2 BPSK	1	108	15.80	15.72	15.68	
40	PI/2 BPSK	1	214	15.92	15.79	15.85	
40	PI/2 BPSK	108	0	15.84	15.90	15.79	16.5
40	PI/2 BPSK	108	54	15.76	15.79	15.69	16.5
40	PI/2 BPSK	108	108	15.90	15.85	15.84	16.5
40	PI/2 BPSK	216	0	15.75	15.71	15.69	
40	QPSK	1	1	15.87	15.72	15.78	16.5
40	QPSK	1	108	15.82	15.88	15.81	
40	QPSK	1	214	15.79	15.82	15.76	
40	QPSK	108	0	15.83	15.76	15.67	16.5
40	QPSK	108	54	15.82	15.76	15.83	16.5
40	QPSK	108	108	15.83	15.89	15.74	16.5
40	QPSK	216	0	15.82	15.89	15.85	
40	16QAM	1	1	15.83	15.83	15.79	16.5
40	64QAM	1	1	15.81	15.79	15.81	16.5
40	256QAM	1	1	15.90	15.73	15.70	16.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	15.92	15.89	15.80	16.5
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	15.83	15.71	15.70	16.5
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	15.90	15.90	15.79	16.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	15.73	15.76	15.82	16.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	15.84	15.82	15.76	16.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	15.76	15.88	15.77	16.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	24.15	24.16	24.11	25.3
40	PI/2 BPSK	1	108	24.09	24.13	24.07	
40	PI/2 BPSK	1	214	24.00	24.04	23.94	
40	PI/2 BPSK	108	0	23.38	23.46	23.38	24.8
40	PI/2 BPSK	108	54	24.00	24.02	23.87	25.3
40	PI/2 BPSK	108	108	23.41	23.46	23.31	24.8
40	PI/2 BPSK	216	0	23.47	23.53	23.43	
40	QPSK	1	1	24.05	24.08	23.94	25.3
40	QPSK	1	108	23.99	24.07	23.94	
40	QPSK	1	214	23.94	24.02	23.92	
40	QPSK	108	0	22.79	22.90	22.75	24.3
40	QPSK	108	54	24.00	24.01	23.86	25.3
40	QPSK	108	108	22.88	22.92	22.84	24.3
40	QPSK	216	0	22.99	23.01	22.86	
40	16QAM	1	1	22.98	23.04	22.90	24.3
40	64QAM	1	1	21.48	21.55	21.50	22.8
40	256QAM	1	1	19.69	19.71	19.64	20.8
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.99	24.15	23.95	25.3
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	24.11	24.00	24.06	25.3
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.97	24.06	24.03	25.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.05	24.05	24.10	25.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.15	23.99	23.97	25.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.02	23.96	23.98	25.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	23.82	23.87	23.68	24.8
40	PI/2 BPSK	1	108	23.71	23.84	23.58	
40	PI/2 BPSK	1	214	23.47	23.56	23.31	
40	PI/2 BPSK	108	0	23.18	23.26	23.01	24.5
40	PI/2 BPSK	108	54	23.62	23.72	23.45	24.8
40	PI/2 BPSK	108	108	22.93	23.07	22.87	24.5
40	PI/2 BPSK	216	0	23.05	23.11	22.90	
40	QPSK	1	1	23.60	23.74	23.46	24.8
40	QPSK	1	108	23.50	23.56	23.39	
40	QPSK	1	214	23.48	23.57	23.38	
40	QPSK	108	0	22.46	22.58	22.35	24.0
40	QPSK	108	54	23.50	23.62	23.35	24.8
40	QPSK	108	108	22.42	22.52	22.44	24.0
40	QPSK	216	0	22.59	22.68	22.43	
40	16QAM	1	1	22.66	22.74	22.53	24.0
40	64QAM	1	1	21.18	21.28	21.02	22.5
40	256QAM	1	1	19.46	19.56	19.34	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.77	23.79	23.67	24.8
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.82	23.69	23.60	24.8
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.67	23.73	23.51	24.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.74	23.78	23.54	24.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.72	23.67	23.66	24.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.81	23.68	23.49	24.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	17.51	17.50	17.48	17.7
40	PI/2 BPSK	1	108	17.50	17.41	17.30	
40	PI/2 BPSK	1	214	17.43	17.47	17.43	
40	PI/2 BPSK	108	0	17.47	17.30	17.32	17.7
40	PI/2 BPSK	108	54	17.48	17.50	17.46	17.7
40	PI/2 BPSK	108	108	17.44	17.35	17.45	17.7
40	PI/2 BPSK	216	0	17.33	17.35	17.30	
40	QPSK	1	1	17.40	17.33	17.38	17.7
40	QPSK	1	108	17.45	17.32	17.43	
40	QPSK	1	214	17.37	17.47	17.40	
40	QPSK	108	0	17.31	17.43	17.43	17.7
40	QPSK	108	54	17.38	17.40	17.35	17.7
40	QPSK	108	108	17.46	17.49	17.39	17.7
40	QPSK	216	0	17.48	17.43	17.33	
40	16QAM	1	1	17.32	17.31	17.38	17.7
40	64QAM	1	1	17.47	17.48	17.34	17.7
40	256QAM	1	1	17.42	17.31	17.46	17.7
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	17.50	17.44	17.35	17.7
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	17.36	17.46	17.29	17.7
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.32	17.37	17.41	17.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.36	17.41	17.28	17.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.46	17.30	17.38	17.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.40	17.50	17.28	17.7



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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				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	15.93	15.90	15.86	16.6
40	PI/2 BPSK	1	108	15.80	15.72	15.68	
40	PI/2 BPSK	1	214	15.92	15.79	15.85	
40	PI/2 BPSK	108	0	15.84	15.90	15.79	16.6
40	PI/2 BPSK	108	54	15.76	15.79	15.69	16.6
40	PI/2 BPSK	108	108	15.90	15.85	15.84	16.6
40	PI/2 BPSK	216	0	15.75	15.71	15.69	
40	QPSK	1	1	15.87	15.72	15.78	16.6
40	QPSK	1	108	15.82	15.88	15.81	
40	QPSK	1	214	15.79	15.82	15.76	
40	QPSK	108	0	15.83	15.76	15.67	16.6
40	QPSK	108	54	15.82	15.76	15.83	16.6
40	QPSK	108	108	15.83	15.89	15.74	16.6
40	QPSK	216	0	15.82	15.89	15.85	
40	16QAM	1	1	15.83	15.83	15.79	16.6
40	64QAM	1	1	15.81	15.79	15.81	16.6
40	256QAM	1	1	15.90	15.73	15.70	16.6
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	15.92	15.89	15.80	16.6
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	15.83	15.71	15.70	16.6
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	15.90	15.90	15.79	16.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	15.73	15.76	15.82	16.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	15.84	15.82	15.76	16.6
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	15.76	15.88	15.77	16.6



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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				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.68	19.80	19.64	20.0
40	PI/2 BPSK	1	108	19.66	19.75	19.69	
40	PI/2 BPSK	1	214	19.60	19.71	19.43	
40	PI/2 BPSK	108	0	19.54	19.57	19.64	20.0
40	PI/2 BPSK	108	54	19.74	19.58	19.64	20.0
40	PI/2 BPSK	108	108	19.61	19.44	19.67	20.0
40	PI/2 BPSK	216	0	19.58	19.59	19.52	
40	QPSK	1	1	19.51	19.49	19.53	20.0
40	QPSK	1	108	19.57	19.78	19.61	
40	QPSK	1	214	19.72	19.67	19.69	
40	QPSK	108	0	19.64	19.70	19.63	20.0
40	QPSK	108	54	19.73	19.76	19.43	20.0
40	QPSK	108	108	19.52	19.69	19.41	20.0
40	QPSK	216	0	19.75	19.66	19.63	
40	16QAM	1	1	19.60	19.75	19.68	20.0
40	64QAM	1	1	19.64	19.59	19.50	20.0
40	256QAM	1	1	19.52	19.46	19.28	20.0
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	19.54	19.68	19.47	20.0
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.49	19.61	19.47	20.0
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.64	19.69	19.46	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	19.56	19.67	19.57	20.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.59	19.73	19.51	20.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	19.60	19.65	19.64	20.0



<FR1 n2_Ant 5_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	22.12	22.18	21.98	22.4
40	PI/2 BPSK	1	108	22.06	22.14	21.89	
40	PI/2 BPSK	1	214	21.85	21.94	21.70	
40	PI/2 BPSK	108	0	22.03	22.08	21.86	22.4
40	PI/2 BPSK	108	54	21.94	22.15	21.87	22.4
40	PI/2 BPSK	108	108	21.78	21.89	21.71	22.4
40	PI/2 BPSK	216	0	21.85	21.93	21.79	
40	QPSK	1	1	21.99	22.09	21.79	22.4
40	QPSK	1	108	21.81	21.90	21.75	
40	QPSK	1	214	21.85	21.90	21.72	
40	QPSK	108	0	21.28	21.40	21.23	22.4
40	QPSK	108	54	21.86	21.93	21.69	22.4
40	QPSK	108	108	21.22	21.36	21.27	22.4
40	QPSK	216	0	21.45	21.58	21.26	
40	16QAM	1	1	21.56	21.60	21.41	22.4
40	64QAM	1	1	21.10	21.25	20.94	22.4
40	256QAM	1	1	19.46	19.56	19.34	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	22.07	22.14	21.99	22.4
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	22.16	22.05	21.92	22.4
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.06	22.05	21.82	22.4
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.07	22.08	21.84	22.4
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.09	21.97	21.98	22.4
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.17	21.98	21.89	22.4



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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				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	17.51	17.50	17.48	18.5
40	PI/2 BPSK	1	108	17.50	17.41	17.30	
40	PI/2 BPSK	1	214	17.43	17.47	17.43	
40	PI/2 BPSK	108	0	17.47	17.30	17.32	18.5
40	PI/2 BPSK	108	54	17.48	17.50	17.46	18.5
40	PI/2 BPSK	108	108	17.44	17.35	17.45	18.5
40	PI/2 BPSK	216	0	17.33	17.35	17.30	
40	QPSK	1	1	17.40	17.33	17.38	18.5
40	QPSK	1	108	17.45	17.32	17.43	
40	QPSK	1	214	17.37	17.47	17.40	
40	QPSK	108	0	17.31	17.43	17.43	18.5
40	QPSK	108	54	17.38	17.40	17.35	18.5
40	QPSK	108	108	17.46	17.49	17.39	18.5
40	QPSK	216	0	17.48	17.43	17.33	
40	16QAM	1	1	17.32	17.31	17.38	18.5
40	64QAM	1	1	17.47	17.48	17.34	18.5
40	256QAM	1	1	17.42	17.31	17.46	18.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	17.50	17.44	17.35	18.5
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	17.36	17.46	17.29	18.5
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.32	17.37	17.41	18.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.36	17.41	17.28	18.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.46	17.30	17.38	18.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.40	17.50	17.28	18.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	18.00	18.03	17.94	19.1
40	PI/2 BPSK	1	108	17.89	17.83	17.75	
40	PI/2 BPSK	1	214	17.97	17.93	17.89	
40	PI/2 BPSK	108	0	17.96	17.94	17.89	19.1
40	PI/2 BPSK	108	54	17.97	18.02	17.91	19.1
40	PI/2 BPSK	108	108	17.91	17.85	17.90	19.1
40	PI/2 BPSK	216	0	17.94	17.97	17.75	
40	QPSK	1	1	17.81	17.88	17.88	19.1
40	QPSK	1	108	17.97	17.88	17.91	
40	QPSK	1	214	17.91	18.00	17.79	
40	QPSK	108	0	17.93	17.93	17.93	19.1
40	QPSK	108	54	17.90	17.99	17.93	19.1
40	QPSK	108	108	17.81	17.97	17.77	19.1
40	QPSK	216	0	17.99	17.92	17.94	
40	16QAM	1	1	17.95	17.91	17.85	19.1
40	64QAM	1	1	17.99	18.00	17.77	19.1
40	256QAM	1	1	17.82	17.92	17.86	19.1
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	17.83	17.99	17.93	19.1
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	17.89	17.84	17.75	19.1
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.97	17.88	17.85	19.1
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.97	18.01	17.74	19.1
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.93	18.00	17.81	19.1
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.89	17.96	17.75	19.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.68	19.80	19.64	20.8
40	PI/2 BPSK	1	108	19.66	19.75	19.69	
40	PI/2 BPSK	1	214	19.60	19.71	19.43	
40	PI/2 BPSK	108	0	19.54	19.57	19.64	20.8
40	PI/2 BPSK	108	54	19.74	19.58	19.64	20.8
40	PI/2 BPSK	108	108	19.61	19.44	19.67	20.8
40	PI/2 BPSK	216	0	19.58	19.59	19.52	
40	QPSK	1	1	19.51	19.49	19.53	20.8
40	QPSK	1	108	19.57	19.78	19.61	
40	QPSK	1	214	19.72	19.67	19.69	
40	QPSK	108	0	19.64	19.70	19.63	20.8
40	QPSK	108	54	19.73	19.76	19.43	20.8
40	QPSK	108	108	19.52	19.69	19.41	20.8
40	QPSK	216	0	19.75	19.66	19.63	
40	16QAM	1	1	19.60	19.75	19.68	20.8
40	64QAM	1	1	19.64	19.59	19.50	20.8
40	256QAM	1	1	19.52	19.46	19.28	20.8
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	19.54	19.68	19.47	20.8
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.49	19.61	19.47	20.8
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.64	19.69	19.46	20.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	19.56	19.67	19.57	20.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.59	19.73	19.51	20.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	19.60	19.65	19.64	20.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	22.12	22.18	21.98	
40	PI/2 BPSK	1	108	22.06	22.14	21.89	
40	PI/2 BPSK	1	214	21.85	21.94	21.70	23.2
40	PI/2 BPSK	108	0	22.03	22.08	21.86	
40	PI/2 BPSK	108	54	21.94	22.15	21.87	23.2
40	PI/2 BPSK	108	108	21.78	21.89	21.71	23.2
40	PI/2 BPSK	216	0	21.85	21.93	21.79	
40	QPSK	1	1	21.99	22.09	21.79	23.2
40	QPSK	1	108	21.81	21.90	21.75	
40	QPSK	1	214	21.85	21.90	21.72	
40	QPSK	108	0	21.28	21.40	21.23	23.2
40	QPSK	108	54	21.86	21.93	21.69	23.2
40	QPSK	108	108	21.22	21.36	21.27	23.2
40	QPSK	216	0	21.45	21.58	21.26	
40	16QAM	1	1	21.56	21.60	21.41	23.2
40	64QAM	1	1	21.10	21.25	20.94	22.5
40	256QAM	1	1	19.46	19.56	19.34	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	22.07	22.14	21.99	23.2
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	22.16	22.05	21.92	23.2
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.06	22.05	21.82	23.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.07	22.08	21.84	23.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.09	21.97	21.98	23.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.17	21.98	21.89	23.2



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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				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	17.51	17.50	17.48	17.7
40	PI/2 BPSK	1	108	17.50	17.41	17.30	
40	PI/2 BPSK	1	214	17.43	17.47	17.43	
40	PI/2 BPSK	108	0	17.47	17.30	17.32	17.7
40	PI/2 BPSK	108	54	17.48	17.50	17.46	17.7
40	PI/2 BPSK	108	108	17.44	17.35	17.45	17.7
40	PI/2 BPSK	216	0	17.33	17.35	17.30	
40	QPSK	1	1	17.40	17.33	17.38	17.7
40	QPSK	1	108	17.45	17.32	17.43	
40	QPSK	1	214	17.37	17.47	17.40	
40	QPSK	108	0	17.31	17.43	17.43	17.7
40	QPSK	108	54	17.38	17.40	17.35	17.7
40	QPSK	108	108	17.46	17.49	17.39	17.7
40	QPSK	216	0	17.48	17.43	17.33	
40	16QAM	1	1	17.32	17.31	17.38	17.7
40	64QAM	1	1	17.47	17.48	17.34	17.7
40	256QAM	1	1	17.42	17.31	17.46	17.7
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	17.50	17.44	17.35	17.7
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	17.36	17.46	17.29	17.7
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.32	17.37	17.41	17.7
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.36	17.41	17.28	17.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.46	17.30	17.38	17.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.40	17.50	17.28	17.7



<FR1 n2_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	18.00	18.03	17.94	18.3
40	PI/2 BPSK	1	108	17.89	17.83	17.75	
40	PI/2 BPSK	1	214	17.97	17.93	17.89	
40	PI/2 BPSK	108	0	17.96	17.94	17.89	18.3
40	PI/2 BPSK	108	54	17.97	18.02	17.91	18.3
40	PI/2 BPSK	108	108	17.91	17.85	17.90	18.3
40	PI/2 BPSK	216	0	17.94	17.97	17.75	
40	QPSK	1	1	17.81	17.88	17.88	18.3
40	QPSK	1	108	17.97	17.88	17.91	
40	QPSK	1	214	17.91	18.00	17.79	
40	QPSK	108	0	17.93	17.93	17.93	18.3
40	QPSK	108	54	17.90	17.99	17.93	18.3
40	QPSK	108	108	17.81	17.97	17.77	18.3
40	QPSK	216	0	17.99	17.92	17.94	
40	16QAM	1	1	17.95	17.91	17.85	18.3
40	64QAM	1	1	17.99	18.00	17.77	18.3
40	256QAM	1	1	17.82	17.92	17.86	18.3
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	17.83	17.99	17.93	18.3
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	17.89	17.84	17.75	18.3
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.97	17.88	17.85	18.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.97	18.01	17.74	18.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	17.93	18.00	17.81	18.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.89	17.96	17.75	18.3



<FR1 n2_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.68	19.80	19.64	20.0
40	PI/2 BPSK	1	108	19.66	19.75	19.69	
40	PI/2 BPSK	1	214	19.60	19.71	19.43	
40	PI/2 BPSK	108	0	19.54	19.57	19.64	20.0
40	PI/2 BPSK	108	54	19.74	19.58	19.64	20.0
40	PI/2 BPSK	108	108	19.61	19.44	19.67	20.0
40	PI/2 BPSK	216	0	19.58	19.59	19.52	
40	QPSK	1	1	19.51	19.49	19.53	20.0
40	QPSK	1	108	19.57	19.78	19.61	
40	QPSK	1	214	19.72	19.67	19.69	
40	QPSK	108	0	19.64	19.70	19.63	20.0
40	QPSK	108	54	19.73	19.76	19.43	20.0
40	QPSK	108	108	19.52	19.69	19.41	20.0
40	QPSK	216	0	19.75	19.66	19.63	
40	16QAM	1	1	19.60	19.75	19.68	20.0
40	64QAM	1	1	19.64	19.59	19.50	20.0
40	256QAM	1	1	19.52	19.46	19.28	20.0
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	19.54	19.68	19.47	20.0
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.49	19.61	19.47	20.0
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.64	19.69	19.46	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	19.56	19.67	19.57	20.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.59	19.73	19.51	20.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	19.60	19.65	19.64	20.0



<FR1 n2_Ant 5_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	22.4
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	22.12	22.18	21.98	
40	PI/2 BPSK	1	108	22.06	22.14	21.89	22.4
40	PI/2 BPSK	1	214	21.85	21.94	21.70	
40	PI/2 BPSK	108	0	22.03	22.08	21.86	22.4
40	PI/2 BPSK	108	54	21.94	22.15	21.87	22.4
40	PI/2 BPSK	108	108	21.78	21.89	21.71	22.4
40	PI/2 BPSK	216	0	21.85	21.93	21.79	
40	QPSK	1	1	21.99	22.09	21.79	22.4
40	QPSK	1	108	21.81	21.90	21.75	
40	QPSK	1	214	21.85	21.90	21.72	
40	QPSK	108	0	21.28	21.40	21.23	22.4
40	QPSK	108	54	21.86	21.93	21.69	22.4
40	QPSK	108	108	21.22	21.36	21.27	22.4
40	QPSK	216	0	21.45	21.58	21.26	
40	16QAM	1	1	21.56	21.60	21.41	22.4
40	64QAM	1	1	21.10	21.25	20.94	22.4
40	256QAM	1	1	19.46	19.56	19.34	20.5
Channel				373000	376000	379000	22.4
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	22.07	22.14	21.99	22.4
Channel				372500	376000	379500	22.4
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	22.16	22.05	21.92	22.4
Channel				372000	376000	380000	22.4
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.06	22.05	21.82	22.4
Channel				371500	376000	380500	22.4
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.07	22.08	21.84	22.4
Channel				371000	376000	381000	22.4
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.09	21.97	21.98	22.4
Channel				370500	376000	381500	22.4
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.17	21.98	21.89	22.4



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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				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.21	24.18	24.07	25.7
20	PI/2 BPSK	1	53	24.20	24.18	24.06	
20	PI/2 BPSK	1	104	24.13	24.11	23.96	
20	PI/2 BPSK	50	0	23.63	23.61	23.50	25.2
20	PI/2 BPSK	50	28	24.18	24.16	24.03	25.7
20	PI/2 BPSK	50	56	23.57	23.55	23.44	25.2
20	PI/2 BPSK	100	0	23.66	23.66	23.47	
20	QPSK	1	1	24.15	24.12	23.99	25.7
20	QPSK	1	53	24.10	24.14	24.02	
20	QPSK	1	104	24.09	24.09	23.91	
20	QPSK	50	0	23.02	23.09	22.89	24.7
20	QPSK	50	28	24.09	24.13	23.96	25.7
20	QPSK	50	56	23.06	23.04	22.84	24.7
20	QPSK	100	0	23.19	23.16	23.01	
20	16QAM	1	1	23.15	23.13	23.02	24.7
20	64QAM	1	1	21.58	21.64	21.47	23.2
20	256QAM	1	1	19.63	19.68	19.50	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.20	24.06	24.04	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.20	24.09	23.93	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.01	24.15	24.00	25.7



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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				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	22.87	22.89	22.81	23.1
20	PI/2 BPSK	1	53	22.73	22.72	22.70	
20	PI/2 BPSK	1	104	22.75	22.69	22.71	
20	PI/2 BPSK	50	0	22.80	22.80	22.79	23.1
20	PI/2 BPSK	50	28	22.77	22.77	22.62	23.1
20	PI/2 BPSK	50	56	22.87	22.70	22.78	23.1
20	PI/2 BPSK	100	0	22.69	22.77	22.66	
20	QPSK	1	1	22.73	22.73	22.78	23.1
20	QPSK	1	53	22.69	22.86	22.66	
20	QPSK	1	104	22.82	22.86	22.77	
20	QPSK	50	0	22.76	22.74	22.65	23.1
20	QPSK	50	28	22.75	22.74	22.63	23.1
20	QPSK	50	56	22.82	22.84	22.80	23.1
20	QPSK	100	0	22.69	22.77	22.66	
20	16QAM	1	1	22.81	22.86	22.74	23.1
20	64QAM	1	1	21.57	21.62	21.55	23.1
20	256QAM	1	1	19.54	19.54	19.52	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	22.84	22.79	22.76	23.1
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	22.70	22.73	22.81	23.1
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	22.79	22.72	22.72	23.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.21	24.18	24.07	25.7
20	PI/2 BPSK	1	53	24.20	24.18	24.06	
20	PI/2 BPSK	1	104	24.13	24.11	23.96	
20	PI/2 BPSK	50	0	23.63	23.61	23.50	25.2
20	PI/2 BPSK	50	28	24.18	24.16	24.03	25.7
20	PI/2 BPSK	50	56	23.57	23.55	23.44	25.2
20	PI/2 BPSK	100	0	23.66	23.66	23.47	
20	QPSK	1	1	24.15	24.12	23.99	25.7
20	QPSK	1	53	24.10	24.14	24.02	
20	QPSK	1	104	24.09	24.09	23.91	
20	QPSK	50	0	23.02	23.09	22.89	24.7
20	QPSK	50	28	24.09	24.13	23.96	25.7
20	QPSK	50	56	23.06	23.04	22.84	24.7
20	QPSK	100	0	23.19	23.16	23.01	
20	16QAM	1	1	23.15	23.13	23.02	24.7
20	64QAM	1	1	21.58	21.64	21.47	23.2
20	256QAM	1	1	19.63	19.68	19.50	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.20	24.06	24.04	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.20	24.09	23.93	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.01	24.15	24.00	25.7



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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				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.18	24.17	24.07	25.7
20	PI/2 BPSK	1	53	24.07	24.13	23.95	
20	PI/2 BPSK	1	104	24.01	24.00	23.88	
20	PI/2 BPSK	50	0	23.56	23.55	23.37	25.2
20	PI/2 BPSK	50	28	24.08	24.08	23.95	25.7
20	PI/2 BPSK	50	56	23.39	23.45	23.27	25.2
20	PI/2 BPSK	100	0	23.58	23.61	23.45	
20	QPSK	1	1	24.03	24.10	23.97	25.7
20	QPSK	1	53	24.12	24.16	23.96	
20	QPSK	1	104	24.00	24.05	23.87	
20	QPSK	50	0	23.01	23.07	22.97	24.7
20	QPSK	50	28	24.03	24.07	23.91	25.7
20	QPSK	50	56	22.98	23.00	22.81	24.7
20	QPSK	100	0	23.05	23.12	22.93	
20	16QAM	1	1	23.06	23.10	22.90	24.7
20	64QAM	1	1	21.56	21.59	21.48	23.2
20	256QAM	1	1	19.45	19.49	19.33	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.99	24.00	24.02	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.10	24.06	23.94	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.02	24.05	24.06	25.7



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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				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.21	24.18	24.07	25.7
20	PI/2 BPSK	1	53	24.20	24.18	24.06	
20	PI/2 BPSK	1	104	24.13	24.11	23.96	
20	PI/2 BPSK	50	0	23.63	23.61	23.50	25.2
20	PI/2 BPSK	50	28	24.18	24.16	24.03	25.7
20	PI/2 BPSK	50	56	23.57	23.55	23.44	25.2
20	PI/2 BPSK	100	0	23.66	23.66	23.47	
20	QPSK	1	1	24.15	24.12	23.99	25.7
20	QPSK	1	53	24.10	24.14	24.02	
20	QPSK	1	104	24.09	24.09	23.91	
20	QPSK	50	0	23.02	23.09	22.89	24.7
20	QPSK	50	28	24.09	24.13	23.96	25.7
20	QPSK	50	56	23.06	23.04	22.84	24.7
20	QPSK	100	0	23.19	23.16	23.01	
20	16QAM	1	1	23.15	23.13	23.02	24.7
20	64QAM	1	1	21.58	21.64	21.47	23.2
20	256QAM	1	1	19.63	19.68	19.50	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.20	24.06	24.04	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.20	24.09	23.93	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.01	24.15	24.00	25.7



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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				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.18	24.17	24.07	25.7
20	PI/2 BPSK	1	53	24.07	24.13	23.95	
20	PI/2 BPSK	1	104	24.01	24.00	23.88	
20	PI/2 BPSK	50	0	23.56	23.55	23.37	25.2
20	PI/2 BPSK	50	28	24.08	24.08	23.95	25.7
20	PI/2 BPSK	50	56	23.39	23.45	23.27	25.2
20	PI/2 BPSK	100	0	23.58	23.61	23.45	
20	QPSK	1	1	24.03	24.10	23.97	25.7
20	QPSK	1	53	24.12	24.16	23.96	
20	QPSK	1	104	24.00	24.05	23.87	
20	QPSK	50	0	23.01	23.07	22.97	24.7
20	QPSK	50	28	24.03	24.07	23.91	25.7
20	QPSK	50	56	22.98	23.00	22.81	24.7
20	QPSK	100	0	23.05	23.12	22.93	
20	16QAM	1	1	23.06	23.10	22.90	24.7
20	64QAM	1	1	21.56	21.59	21.48	23.2
20	256QAM	1	1	19.45	19.49	19.33	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.99	24.00	24.02	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.10	24.06	23.94	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.02	24.05	24.06	25.7



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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				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.21	24.18	24.07	25.7
20	PI/2 BPSK	1	53	24.20	24.18	24.06	
20	PI/2 BPSK	1	104	24.13	24.11	23.96	
20	PI/2 BPSK	50	0	23.63	23.61	23.50	25.2
20	PI/2 BPSK	50	28	24.18	24.16	24.03	25.7
20	PI/2 BPSK	50	56	23.57	23.55	23.44	25.2
20	PI/2 BPSK	100	0	23.66	23.66	23.47	
20	QPSK	1	1	24.15	24.12	23.99	25.7
20	QPSK	1	53	24.10	24.14	24.02	
20	QPSK	1	104	24.09	24.09	23.91	
20	QPSK	50	0	23.02	23.09	22.89	24.7
20	QPSK	50	28	24.09	24.13	23.96	25.7
20	QPSK	50	56	23.06	23.04	22.84	24.7
20	QPSK	100	0	23.19	23.16	23.01	
20	16QAM	1	1	23.15	23.13	23.02	24.7
20	64QAM	1	1	21.58	21.64	21.47	23.2
20	256QAM	1	1	19.63	19.68	19.50	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.20	24.06	24.04	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.20	24.09	23.93	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.01	24.15	24.00	25.7



<FR1 n5_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.18	24.17	24.07	25.7
20	PI/2 BPSK	1	53	24.07	24.13	23.95	
20	PI/2 BPSK	1	104	24.01	24.00	23.88	
20	PI/2 BPSK	50	0	23.56	23.55	23.37	25.2
20	PI/2 BPSK	50	28	24.08	24.08	23.95	25.7
20	PI/2 BPSK	50	56	23.39	23.45	23.27	25.2
20	PI/2 BPSK	100	0	23.58	23.61	23.45	
20	QPSK	1	1	24.03	24.10	23.97	25.7
20	QPSK	1	53	24.12	24.16	23.96	
20	QPSK	1	104	24.00	24.05	23.87	
20	QPSK	50	0	23.01	23.07	22.97	24.7
20	QPSK	50	28	24.03	24.07	23.91	25.7
20	QPSK	50	56	22.98	23.00	22.81	24.7
20	QPSK	100	0	23.05	23.12	22.93	
20	16QAM	1	1	23.06	23.10	22.90	24.7
20	64QAM	1	1	21.56	21.59	21.48	23.2
20	256QAM	1	1	19.45	19.49	19.33	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.99	24.00	24.02	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.10	24.06	23.94	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.02	24.05	24.06	25.7



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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				505000	507000	509000	25.1
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	23.94	23.93	23.86	
50	PI/2 BPSK	1	135	23.87	23.86	23.75	24.6
50	PI/2 BPSK	1	268	23.86	23.91	23.82	
50	PI/2 BPSK	135	0	23.35	23.41	23.33	25.1
50	PI/2 BPSK	135	68	23.88	23.87	23.74	
50	PI/2 BPSK	135	135	23.36	23.36	23.29	24.6
50	PI/2 BPSK	270	0	23.23	23.32	23.21	
50	QPSK	1	1	23.87	23.88	23.74	25.1
50	QPSK	1	135	23.77	23.85	23.74	
50	QPSK	1	268	23.79	23.82	23.75	
50	QPSK	135	0	22.85	22.91	22.76	24.1
50	QPSK	135	68	23.83	23.86	23.71	
50	QPSK	135	135	22.84	22.87	22.72	24.1
50	QPSK	270	0	22.76	22.84	22.74	
50	16QAM	1	1	22.93	22.94	22.81	24.1
50	64QAM	1	1	21.33	21.38	21.29	
50	256QAM	1	1	19.31	19.34	19.19	20.6
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.81	23.91	23.83	25.1
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.90	23.89	23.67	25.1
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.90	23.92	23.85	25.1
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.84	23.90	23.66	25.1
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.84	23.89	23.84	25.1
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.87	23.74	23.78	25.1
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.83	23.74	23.79	25.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	18.9
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.32	18.37	18.18	
50	PI/2 BPSK	1	135	18.12	18.23	18.23	18.9
50	PI/2 BPSK	1	268	18.29	18.36	18.20	
50	PI/2 BPSK	135	0	18.21	18.21	18.20	18.9
50	PI/2 BPSK	135	68	18.32	18.35	18.24	18.9
50	PI/2 BPSK	135	135	18.28	18.16	18.21	18.9
50	PI/2 BPSK	270	0	18.23	18.30	18.34	
50	QPSK	1	1	18.11	18.22	18.23	18.9
50	QPSK	1	135	18.30	18.29	18.14	
50	QPSK	1	268	18.30	18.30	18.20	
50	QPSK	135	0	18.26	18.27	18.04	18.9
50	QPSK	135	68	18.21	18.28	18.13	18.9
50	QPSK	135	135	18.20	18.26	18.24	18.9
50	QPSK	270	0	18.29	18.20	18.16	
50	16QAM	1	1	18.29	18.24	18.15	18.9
50	64QAM	1	1	18.24	18.32	18.26	18.9
50	256QAM	1	1	18.20	18.21	18.25	18.9
Channel				504000	507000	510000	18.9
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.22	18.35	18.15	18.9
Channel				503000	507000	511000	18.9
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.19	18.33	18.11	18.9
Channel				502500	507000	511500	18.9
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.25	18.24	18.04	18.9
Channel				502000	507000	512000	18.9
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.18	18.35	18.09	18.9
Channel				501500	507000	512500	18.9
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.21	18.22	18.17	18.9
Channel				501000	507000	513000	18.9
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.29	18.29	18.12	18.9
Channel				500500	507000	513500	18.9
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.21	18.21	18.05	18.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.84	18.87	18.82	18.9
50	PI/2 BPSK	1	135	18.69	18.83	18.73	
50	PI/2 BPSK	1	268	18.80	18.81	18.66	
50	PI/2 BPSK	135	0	18.74	18.78	18.72	18.9
50	PI/2 BPSK	135	68	18.75	18.84	18.76	18.9
50	PI/2 BPSK	135	135	18.66	18.83	18.74	18.9
50	PI/2 BPSK	270	0	18.67	18.80	18.76	
50	QPSK	1	1	18.83	18.80	18.77	18.9
50	QPSK	1	135	18.73	18.71	18.73	
50	QPSK	1	268	18.82	18.73	18.63	
50	QPSK	135	0	18.72	18.80	18.68	18.9
50	QPSK	135	68	18.79	18.77	18.72	18.9
50	QPSK	135	135	18.69	18.77	18.69	18.9
50	QPSK	270	0	18.82	18.76	18.82	
50	16QAM	1	1	18.65	18.73	18.68	18.9
50	64QAM	1	1	18.67	18.77	18.62	18.9
50	256QAM	1	1	18.80	18.67	18.75	18.9
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.79	18.85	18.70	18.9
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.74	18.75	18.70	18.9
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.71	18.70	18.77	18.9
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.72	18.67	18.75	18.9
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.83	18.71	18.66	18.9
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.77	18.72	18.67	18.9
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.80	18.80	18.65	18.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.85	18.96	18.80	19.7
50	PI/2 BPSK	1	135	18.66	18.77	18.66	
50	PI/2 BPSK	1	268	18.84	18.92	18.80	
50	PI/2 BPSK	135	0	18.73	18.77	18.80	19.7
50	PI/2 BPSK	135	68	18.83	18.89	18.82	19.7
50	PI/2 BPSK	135	135	18.75	18.76	18.72	19.7
50	PI/2 BPSK	270	0	18.66	18.85	18.81	
50	QPSK	1	1	18.70	18.71	18.74	19.7
50	QPSK	1	135	18.78	18.92	18.69	
50	QPSK	1	268	18.77	18.78	18.72	
50	QPSK	135	0	18.86	18.87	18.65	19.7
50	QPSK	135	68	18.82	18.91	18.67	19.7
50	QPSK	135	135	18.77	18.79	18.73	19.7
50	QPSK	270	0	18.85	18.78	18.80	
50	16QAM	1	1	18.88	18.88	18.77	19.7
50	64QAM	1	1	18.71	18.75	18.65	19.7
50	256QAM	1	1	18.89	18.90	18.77	19.7
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.78	18.92	18.72	19.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.82	18.85	18.72	19.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.68	18.92	18.82	19.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.82	18.87	18.75	19.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.84	18.72	18.81	19.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.86	18.88	18.68	19.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.78	18.82	18.82	19.7