

8 CONDUCTED RF OUPUT POWER

8.1	GSM Output Power
8.2	WCDMA Output Power
8.3	LTE Output Power
8.4	WIFI Output Power
8.5	Bluetooth
8.5.1	Bluetooth Output Power
8.5.2	Bluetooth Duty Cycle

8.1 GSM Output Power

GSM-Full Power-Ant.0								
GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power (dBm)			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm)
GPRS (GMSK, 1-Slot)	32.29	32.63	32.91	33.00	23.10	23.44	23.72	23.81
GPRS (GMSK, 2-Slots)	31.42	31.44	31.40	31.50	25.29	25.31	25.27	25.37
GPRS (GMSK, 3-Slots)	29.25	29.28	29.12	30.00	24.83	24.86	24.70	25.58
GPRS (GMSK, 4-Slots)	28.60	27.93	28.91	29.00	25.42	24.75	25.73	25.82
EGPRS (8PSK, 1-Slot)	26.06	26.44	26.92	27.00	16.87	17.25	17.73	17.81
EGPRS (8PSK, 2-Slots)	24.99	25.42	25.81	26.00	18.86	19.29	19.68	19.87
EGPRS (8PSK, 3-Slots)	23.63	23.19	22.87	24.00	19.21	18.77	18.45	19.58
EGPRS (8PSK, 4-Slots)	22.20	21.86	21.52	23.00	19.02	18.68	18.34	19.82
GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power(dBm)			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm)
GPRS (GMSK, 1-Slot)	30.09	30.13	30.15	31.00	20.90	20.94	20.96	21.81
GPRS (GMSK, 2-Slots)	28.75	29.35	29.34	30.00	22.62	23.22	23.21	23.87
GPRS (GMSK, 3-Slots)	26.79	26.87	27.40	28.00	22.37	22.45	22.98	23.58
GPRS (GMSK, 4-Slots)	25.46	25.91	25.92	26.00	22.28	22.73	22.74	22.82
EGPRS (8PSK, 1-Slot)	26.20	26.35	26.56	27.00	17.01	17.16	17.37	17.81
EGPRS (8PSK, 2-Slots)	25.20	25.21	25.45	26.00	19.07	19.08	19.32	19.87
EGPRS (8PSK, 3-Slots)	24.35	24.36	24.14	25.00	19.93	19.94	19.72	20.58
EGPRS (8PSK, 4-Slots)	23.15	23.07	23.16	24.00	19.97	19.89	19.98	20.82

8.2 WCDMA Output Power

WCDMA-Full Power-Ant.0				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
AMR 12.2Kbps	24.27	24.21	24.30	25.00
RMC 12.2Kbps	24.27	24.47	24.44	25.00
HSDPA Subtest-1	23.33	23.33	23.53	24.00
HSDPA Subtest-2	23.34	23.55	23.48	24.00
HSDPA Subtest-3	22.83	22.97	23.03	23.50
HSDPA Subtest-4	22.85	22.99	22.97	23.50
HSUPA Subtest-1	23.04	23.11	23.16	24.00
HSUPA Subtest-2	22.35	22.44	22.47	23.00
HSUPA Subtest-3	22.01	22.00	22.04	23.00
HSUPA Subtest-4	22.56	22.66	22.58	23.00
HSUPA Subtest-5	23.41	23.44	23.48	24.00
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
AMR 12.2Kbps	23.83	23.94	23.91	24.50
RMC 12.2Kbps	23.93	23.95	23.93	24.50
HSDPA Subtest-1	23.11	23.02	23.02	24.00
HSDPA Subtest-2	23.04	23.09	23.04	23.50
HSDPA Subtest-3	22.65	22.59	22.55	23.00
HSDPA Subtest-4	22.57	22.50	22.51	23.00
HSUPA Subtest-1	22.72	22.44	22.48	23.00
HSUPA Subtest-2	22.00	22.03	21.93	22.50
HSUPA Subtest-3	21.65	21.65	21.58	22.00
HSUPA Subtest-4	22.16	22.25	22.21	23.00
HSUPA Subtest-5	22.31	22.35	22.36	23.00
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
AMR 12.2Kbps	23.64	23.73	23.45	24.00
RMC 12.2Kbps	23.74	23.75	23.51	24.00
HSDPA Subtest-1	22.60	22.76	22.56	23.00
HSDPA Subtest-2	22.72	22.72	22.49	23.00
HSDPA Subtest-3	22.23	22.29	22.05	23.00
HSDPA Subtest-4	22.23	22.30	22.03	23.00
HSUPA Subtest-1	22.40	22.51	22.28	23.00
HSUPA Subtest-2	21.18	21.35	20.99	22.00
HSUPA Subtest-3	20.76	20.81	20.58	21.00
HSUPA Subtest-4	22.10	22.23	22.04	23.00
HSUPA Subtest-5	22.61	22.69	22.42	23.00

8.3 LTE Output Power

Band				LTE B2				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	18607	18900	19185	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	23.62	23.83	23.66	24.50
1.4	QPSK	1	2	ANT0	23.75	23.85	23.89	24.50
1.4	QPSK	1	5	ANT0	23.44	23.76	23.76	24.50
1.4	QPSK	3	0	ANT0	23.49	23.67	23.46	24.50
1.4	QPSK	3	1	ANT0	23.55	23.60	23.57	24.50
1.4	QPSK	3	3	ANT0	23.51	23.55	23.29	24.50
1.4	QPSK	6	0	ANT0	23.01	23.30	23.08	23.50
1.4	16QAM	1	0	ANT0	23.16	23.12	22.64	23.50
1.4	16QAM	1	2	ANT0	23.03	23.05	23.04	23.50
1.4	16QAM	1	5	ANT0	22.52	22.50	22.63	23.50
1.4	16QAM	3	0	ANT0	22.45	22.45	22.48	23.50
1.4	16QAM	3	1	ANT0	22.61	22.62	22.63	23.50
1.4	16QAM	3	3	ANT0	22.68	22.73	22.42	23.50
1.4	16QAM	6	0	ANT0	21.83	21.81	21.94	22.50

Band				LTE B2				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	18615	18900	19175	Tune-up power(dBm)
3	QPSK	1	0	ANT0	23.54	23.82	23.65	24.50
3	QPSK	1	7	ANT0	23.83	23.85	23.92	24.50
3	QPSK	1	14	ANT0	23.52	23.81	23.73	24.50
3	QPSK	8	0	ANT0	23.11	23.28	23.07	23.50
3	QPSK	8	3	ANT0	23.14	23.25	23.21	23.50
3	QPSK	8	7	ANT0	23.12	23.15	22.98	23.50
3	QPSK	15	0	ANT0	23.09	23.27	23.00	23.50
3	16QAM	1	0	ANT0	23.19	23.19	22.67	23.50
3	16QAM	1	7	ANT0	23.09	23.08	23.12	23.50
3	16QAM	1	14	ANT0	22.58	22.57	22.73	23.50
3	16QAM	8	0	ANT0	21.80	21.81	21.94	22.50
3	16QAM	8	3	ANT0	22.02	22.05	21.98	22.50
3	16QAM	8	7	ANT0	22.17	22.10	21.89	22.50
3	16QAM	15	0	ANT0	21.74	21.78	21.85	22.50

Band				LTE B2				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	18625	18900	19175	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.63	23.87	23.68	24.50
5	QPSK	1	12	ANT0	23.75	23.87	23.93	24.50
5	QPSK	1	24	ANT0	23.50	23.75	23.71	24.50
5	QPSK	12	0	ANT0	23.10	23.22	23.10	23.50
5	QPSK	12	6	ANT0	23.13	23.30	23.23	23.50
5	QPSK	12	13	ANT0	23.15	23.19	22.91	23.50
5	QPSK	25	0	ANT0	23.06	23.23	23.02	23.50
5	16QAM	1	0	ANT0	23.17	23.16	22.69	23.50
5	16QAM	1	12	ANT0	23.04	23.12	23.08	23.50
5	16QAM	1	24	ANT0	22.48	22.49	22.63	23.50
5	16QAM	12	0	ANT0	21.82	21.87	21.93	22.50
5	16QAM	12	6	ANT0	22.08	21.96	21.97	22.50
5	16QAM	12	13	ANT0	22.13	22.11	21.86	22.50
5	16QAM	25	0	ANT0	21.79	21.76	21.91	22.50

Band				LTE B2				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	18650	18900	19150	Tune-up power(dBm)
10	QPSK	1	0	ANT0	23.62	23.91	23.62	24.50
10	QPSK	1	24	ANT0	23.82	23.85	23.93	24.50
10	QPSK	1	49	ANT0	23.43	23.83	23.72	24.50
10	QPSK	25	0	ANT0	23.13	23.24	23.05	23.50
10	QPSK	25	12	ANT0	23.20	23.26	23.19	23.50
10	QPSK	25	25	ANT0	23.16	23.17	22.94	23.50
10	QPSK	50	0	ANT0	23.04	23.26	23.10	23.50
10	16QAM	1	0	ANT0	23.16	23.20	22.68	23.50
10	16QAM	1	24	ANT0	23.09	23.15	23.09	23.50
10	16QAM	1	49	ANT0	22.58	22.51	22.63	23.50
10	16QAM	25	0	ANT0	21.82	21.84	21.89	22.50
10	16QAM	25	12	ANT0	22.10	22.07	22.06	22.50
10	16QAM	25	25	ANT0	22.08	22.11	21.83	22.50
10	16QAM	50	0	ANT0	21.78	21.79	21.90	22.50

Band				LTE B2				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	18675	18900	19125	Tune-up power(dBm)
15	QPSK	1	0	ANT0	23.53	23.85	23.66	24.50
15	QPSK	1	37	ANT0	23.77	23.80	23.90	24.50
15	QPSK	1	74	ANT0	23.47	23.83	23.67	24.50
15	QPSK	36	0	ANT0	23.12	23.29	23.10	23.50
15	QPSK	36	19	ANT0	23.15	23.27	23.18	23.50
15	QPSK	36	39	ANT0	23.09	23.19	22.95	23.50
15	QPSK	75	0	ANT0	23.05	23.22	23.09	23.50
15	16QAM	1	0	ANT0	23.13	23.17	22.59	23.50
15	16QAM	1	37	ANT0	23.09	23.09	23.11	23.50
15	16QAM	1	74	ANT0	22.50	22.48	22.69	23.50
15	16QAM	36	0	ANT0	21.80	21.80	21.87	22.50
15	16QAM	36	19	ANT0	22.04	22.10	22.04	22.50
15	16QAM	36	39	ANT0	22.18	22.13	21.84	22.50
15	16QAM	75	0	ANT0	21.78	21.79	21.86	22.50

Band				LTE B2				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	18700	18900	19100	Tune-up power(dBm)
20	QPSK	1	0	ANT0	23.58	23.89	23.67	24.50
20	QPSK	1	49	ANT0	23.79	23.82	23.88	24.50
20	QPSK	1	99	ANT0	23.47	23.78	23.72	24.50
20	QPSK	50	0	ANT0	23.09	23.27	23.08	23.50
20	QPSK	50	25	ANT0	23.15	23.25	23.18	23.50
20	QPSK	50	50	ANT0	23.12	23.17	22.94	23.50
20	QPSK	100	0	ANT0	23.04	23.26	23.05	23.50
20	16QAM	1	0	ANT0	23.16	23.18	22.64	23.50
20	16QAM	1	49	ANT0	23.08	23.11	23.09	23.50
20	16QAM	1	99	ANT0	22.53	22.49	22.68	23.50
20	16QAM	50	0	ANT0	21.83	21.86	21.89	22.50
20	16QAM	50	25	ANT0	22.06	22.04	22.02	22.50
20	16QAM	50	50	ANT0	22.13	22.13	21.87	22.50
20	16QAM	100	0	ANT0	21.78	21.74	21.90	22.50

Band				LTE B4				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	19957	20175	20393	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	23.10	23.46	23.49	24.00
1.4	QPSK	1	2	ANT0	23.24	23.74	23.67	24.00
1.4	QPSK	1	5	ANT0	22.86	23.43	23.43	24.00
1.4	QPSK	3	0	ANT0	23.45	23.49	23.58	24.00
1.4	QPSK	3	1	ANT0	23.51	23.45	23.57	24.00
1.4	QPSK	3	3	ANT0	23.39	23.50	23.58	24.00
1.4	QPSK	6	0	ANT0	22.54	22.46	22.53	23.00
1.4	16QAM	1	0	ANT0	22.51	22.98	22.66	23.00
1.4	16QAM	1	2	ANT0	22.49	22.52	22.36	23.00
1.4	16QAM	1	5	ANT0	21.87	22.11	22.38	23.00
1.4	16QAM	3	0	ANT0	22.45	22.49	22.47	23.00
1.4	16QAM	3	1	ANT0	22.59	22.60	22.44	23.00
1.4	16QAM	3	3	ANT0	22.36	22.46	22.41	23.00
1.4	16QAM	6	0	ANT0	21.48	21.46	21.52	22.00

Band				LTE B4				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	19965	20175	20385	Tune-up power(dBm)
3	QPSK	1	0	ANT0	23.06	23.52	23.41	24.00
3	QPSK	1	7	ANT0	23.25	23.76	23.75	24.00
3	QPSK	1	14	ANT0	22.96	23.41	23.43	24.00
3	QPSK	8	0	ANT0	22.46	22.55	22.58	23.00
3	QPSK	8	3	ANT0	22.48	22.51	22.63	23.00
3	QPSK	8	7	ANT0	22.35	22.50	22.53	23.00
3	QPSK	15	0	ANT0	22.50	22.49	22.62	23.00
3	16QAM	1	0	ANT0	22.45	23.06	22.69	23.00
3	16QAM	1	7	ANT0	22.44	22.57	22.43	23.00
3	16QAM	1	14	ANT0	21.88	22.12	22.38	23.00
3	16QAM	8	0	ANT0	21.47	21.45	21.51	22.00
3	16QAM	8	3	ANT0	21.61	21.60	21.42	22.00
3	16QAM	8	7	ANT0	21.28	21.41	21.37	22.00
3	16QAM	15	0	ANT0	21.51	21.49	21.54	22.00

Band				LTE B4				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	19975	20175	20375	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.03	23.50	23.41	24.00
5	QPSK	1	12	ANT0	23.20	23.80	23.68	24.00
5	QPSK	1	24	ANT0	22.89	23.48	23.43	24.00
5	QPSK	12	0	ANT0	22.39	22.57	22.57	23.00
5	QPSK	12	6	ANT0	22.54	22.53	22.63	23.00
5	QPSK	12	13	ANT0	22.37	22.45	22.52	23.00
5	QPSK	25	0	ANT0	22.44	22.48	22.56	23.00
5	16QAM	1	0	ANT0	22.51	23.04	22.67	23.00
5	16QAM	1	12	ANT0	22.46	22.58	22.34	23.00
5	16QAM	1	24	ANT0	21.80	22.17	22.38	23.00
5	16QAM	12	0	ANT0	21.52	21.44	21.54	22.00
5	16QAM	12	6	ANT0	21.58	21.69	21.43	22.00
5	16QAM	12	13	ANT0	21.32	21.46	21.42	22.00
5	16QAM	25	0	ANT0	21.52	21.42	21.52	22.00

Band				LTE B4				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20000	20175	20350	Tune-up power(dBm)
10	QPSK	1	0	ANT0	23.06	23.49	23.49	24.00
10	QPSK	1	24	ANT0	23.24	23.70	23.77	24.00
10	QPSK	1	49	ANT0	22.86	23.40	23.37	24.00
10	QPSK	25	0	ANT0	22.40	22.49	22.51	23.00
10	QPSK	25	12	ANT0	22.46	22.51	22.60	23.00
10	QPSK	25	25	ANT0	22.40	22.50	22.50	23.00
10	QPSK	50	0	ANT0	22.44	22.44	22.54	23.00
10	16QAM	1	0	ANT0	22.48	22.99	22.66	23.00
10	16QAM	1	24	ANT0	22.43	22.51	22.33	23.00
10	16QAM	1	49	ANT0	21.84	22.13	22.30	23.00
10	16QAM	25	0	ANT0	21.50	21.43	21.50	22.00
10	16QAM	25	12	ANT0	21.62	21.62	21.48	22.00
10	16QAM	25	25	ANT0	21.29	21.38	21.43	22.00
10	16QAM	50	0	ANT0	21.51	21.44	21.52	22.00

Band				LTE B4				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20025	20175	20325	Tune-up power(dBm)
15	QPSK	1	0	ANT0	23.09	23.49	23.45	24.00
15	QPSK	1	37	ANT0	23.24	23.73	23.76	24.00
15	QPSK	1	74	ANT0	22.96	23.38	23.39	24.00
15	QPSK	36	0	ANT0	22.40	22.54	22.55	23.00
15	QPSK	36	19	ANT0	22.53	22.47	22.53	23.00
15	QPSK	36	39	ANT0	22.42	22.45	22.54	23.00
15	QPSK	75	0	ANT0	22.50	22.49	22.55	23.00
15	16QAM	1	0	ANT0	22.50	23.07	22.63	23.00
15	16QAM	1	37	ANT0	22.45	22.52	22.39	23.00
15	16QAM	1	74	ANT0	21.87	22.12	22.33	23.00
15	16QAM	36	0	ANT0	21.53	21.43	21.53	22.00
15	16QAM	36	19	ANT0	21.67	21.69	21.50	22.00
15	16QAM	36	39	ANT0	21.28	21.38	21.38	22.00
15	16QAM	75	0	ANT0	21.52	21.45	21.52	22.00

Band				LTE B4				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20050	20175	20300	Tune-up power(dBm)
20	QPSK	1	0	ANT0	23.07	23.79	23.44	24.00
20	QPSK	1	49	ANT0	23.22	23.75	23.72	24.00
20	QPSK	1	99	ANT0	22.91	23.43	23.38	24.00
20	QPSK	50	0	ANT0	22.41	22.57	22.55	23.00
20	QPSK	50	25	ANT0	22.49	22.50	22.56	23.00
20	QPSK	50	50	ANT0	22.39	22.47	22.53	23.00
20	QPSK	100	0	ANT0	22.49	22.59	22.58	23.00
20	16QAM	1	0	ANT0	22.50	23.02	22.68	23.00
20	16QAM	1	49	ANT0	22.47	22.53	22.38	23.00
20	16QAM	1	99	ANT0	21.84	22.13	22.33	23.00
20	16QAM	50	0	ANT0	21.49	21.47	21.52	22.00
20	16QAM	50	25	ANT0	21.62	21.65	21.46	22.00
20	16QAM	50	50	ANT0	21.31	21.43	21.41	22.00
20	16QAM	100	0	ANT0	21.47	21.47	21.52	22.00

Band				LTE B5				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20407	20525	20643	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	23.37	23.56	23.42	24.00
1.4	QPSK	1	2	ANT0	23.20	23.49	23.34	24.00
1.4	QPSK	1	5	ANT0	22.90	23.08	22.82	24.00
1.4	QPSK	3	0	ANT0	23.72	23.54	23.38	23.00
1.4	QPSK	3	1	ANT0	23.55	23.42	23.27	23.00
1.4	QPSK	3	3	ANT0	23.39	23.29	22.98	23.00
1.4	QPSK	6	0	ANT0	22.43	22.40	22.03	23.00
1.4	16QAM	1	0	ANT0	22.56	22.11	22.22	23.00
1.4	16QAM	1	2	ANT0	22.84	22.34	22.26	23.00
1.4	16QAM	1	5	ANT0	22.26	21.97	22.06	23.00
1.4	16QAM	3	0	ANT0	22.45	22.28	22.28	23.00
1.4	16QAM	3	1	ANT0	22.70	22.61	22.03	23.00
1.4	16QAM	3	3	ANT0	22.40	22.43	22.00	23.00
1.4	16QAM	6	0	ANT0	21.31	21.41	21.06	22.00

Band				LTE B5				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20415	20525	20635	Tune-up power(dBm)
3	QPSK	1	0	ANT0	23.15	23.47	23.33	24.00
3	QPSK	1	7	ANT0	22.95	23.65	23.51	24.00
3	QPSK	1	14	ANT0	22.92	22.96	22.87	24.00
3	QPSK	8	0	ANT0	22.74	22.56	22.33	23.00
3	QPSK	8	3	ANT0	22.30	22.33	22.17	23.00
3	QPSK	8	7	ANT0	22.44	22.13	22.08	23.00
3	QPSK	15	0	ANT0	22.32	22.45	22.21	23.00
3	16QAM	1	0	ANT0	22.57	22.02	22.14	23.00
3	16QAM	1	7	ANT0	22.62	22.13	22.40	23.00
3	16QAM	1	14	ANT0	22.16	21.89	22.12	23.00
3	16QAM	8	0	ANT0	21.48	21.44	21.32	22.00
3	16QAM	8	3	ANT0	21.61	21.54	21.01	22.00
3	16QAM	8	7	ANT0	21.40	21.37	21.19	22.00
3	16QAM	15	0	ANT0	21.35	21.18	21.12	22.00

Band				LTE B5				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20425	20525	20625	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.37	23.57	23.37	24.00
5	QPSK	1	12	ANT0	23.20	23.56	23.48	24.00
5	QPSK	1	24	ANT0	23.02	23.10	22.98	24.00
5	QPSK	12	0	ANT0	22.83	22.59	22.40	23.00
5	QPSK	12	6	ANT0	22.50	22.40	22.17	23.00
5	QPSK	12	13	ANT0	22.43	22.39	22.15	23.00
5	QPSK	25	0	ANT0	22.34	22.27	22.07	23.00
5	16QAM	1	0	ANT0	22.55	22.01	22.00	23.00
5	16QAM	1	12	ANT0	22.83	22.27	22.38	23.00
5	16QAM	1	24	ANT0	22.08	21.95	22.02	23.00
5	16QAM	12	0	ANT0	21.69	21.28	21.30	22.00
5	16QAM	12	6	ANT0	21.72	21.63	21.11	22.00
5	16QAM	12	13	ANT0	21.29	21.20	21.07	22.00
5	16QAM	25	0	ANT0	21.53	21.28	21.01	22.00

Band				LTE B5				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20450	20525	20600	Tune-up power(dBm)
10	QPSK	1	0	ANT0	23.23	23.52	23.40	24.00
10	QPSK	1	24	ANT0	23.06	23.35	23.41	24.00
10	QPSK	1	49	ANT0	22.88	23.03	22.87	24.00
10	QPSK	25	0	ANT0	22.81	22.85	22.26	23.00
10	QPSK	25	12	ANT0	22.40	22.45	22.26	23.00
10	QPSK	25	25	ANT0	22.36	22.26	22.04	23.00
10	QPSK	50	0	ANT0	22.39	22.34	22.16	23.00
10	16QAM	1	0	ANT0	22.45	22.11	22.13	23.00
10	16QAM	1	24	ANT0	22.72	22.24	22.39	23.00
10	16QAM	1	49	ANT0	22.20	21.92	22.08	23.00
10	16QAM	25	0	ANT0	21.60	21.41	21.21	22.00
10	16QAM	25	12	ANT0	21.59	21.50	21.13	22.00
10	16QAM	25	25	ANT0	21.40	21.29	21.09	22.00
10	16QAM	50	0	ANT0	21.45	21.31	21.06	22.00

Band				LTE B7				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20775	21100	21425	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.01	23.43	23.24	24.00
5	QPSK	1	12	ANT0	23.05	23.51	23.42	24.00
5	QPSK	1	24	ANT0	22.66	23.02	22.86	24.00
5	QPSK	12	0	ANT0	22.27	22.20	21.97	23.00
5	QPSK	12	6	ANT0	22.22	22.02	22.23	23.00
5	QPSK	12	13	ANT0	22.03	22.35	21.90	23.00
5	QPSK	25	0	ANT0	22.13	22.17	21.92	23.00
5	16QAM	1	0	ANT0	22.24	22.33	21.87	23.00
5	16QAM	1	12	ANT0	22.35	22.37	22.02	23.00
5	16QAM	1	24	ANT0	21.83	21.55	21.94	23.00
5	16QAM	12	0	ANT0	21.23	21.11	21.07	22.00
5	16QAM	12	6	ANT0	21.26	21.20	21.09	22.00
5	16QAM	12	13	ANT0	21.19	21.11	21.20	22.00
5	16QAM	25	0	ANT0	21.11	20.92	21.16	22.00

Band				LTE B7				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20800	21100	21400	Tune-up power(dBm)
10	QPSK	1	0	ANT0	22.88	23.36	23.32	24.00
10	QPSK	1	24	ANT0	23.04	23.45	23.19	24.00
10	QPSK	1	49	ANT0	22.64	22.99	22.90	24.00
10	QPSK	25	0	ANT0	22.18	22.30	22.12	23.00
10	QPSK	25	12	ANT0	22.06	22.28	22.02	23.00
10	QPSK	25	25	ANT0	22.10	22.47	22.05	23.00
10	QPSK	50	0	ANT0	22.14	22.18	21.87	23.00
10	16QAM	1	0	ANT0	22.28	22.31	21.75	23.00
10	16QAM	1	24	ANT0	22.26	22.41	22.04	23.00
10	16QAM	1	49	ANT0	21.80	21.51	21.98	23.00
10	16QAM	25	0	ANT0	21.12	21.16	21.03	22.00
10	16QAM	25	12	ANT0	21.13	21.30	20.97	22.00
10	16QAM	25	25	ANT0	21.00	20.95	21.00	22.00
10	16QAM	50	0	ANT0	21.23	21.00	20.88	22.00

Band				LTE B7				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20825	21100	21375	Tune-up power(dBm)
15	QPSK	1	0	ANT0	22.92	23.40	23.25	24.00
15	QPSK	1	37	ANT0	22.89	23.54	23.25	24.00
15	QPSK	1	74	ANT0	22.64	22.94	22.99	24.00
15	QPSK	36	0	ANT0	22.06	22.25	22.12	23.00
15	QPSK	36	19	ANT0	22.28	22.11	21.97	23.00
15	QPSK	36	39	ANT0	21.99	22.24	21.95	23.00
15	QPSK	75	0	ANT0	22.19	22.19	21.88	23.00
15	16QAM	1	0	ANT0	22.27	22.33	21.80	23.00
15	16QAM	1	37	ANT0	22.15	22.37	21.90	23.00
15	16QAM	1	74	ANT0	21.71	21.47	21.96	23.00
15	16QAM	36	0	ANT0	21.18	21.06	20.95	22.00
15	16QAM	36	19	ANT0	21.04	21.30	21.23	22.00
15	16QAM	36	39	ANT0	20.95	21.01	20.95	22.00
15	16QAM	75	0	ANT0	21.20	20.96	20.89	22.00

Band				LTE B7				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	20850	21100	21350	Tune-up power(dBm)
20	QPSK	1	0	ANT0	23.02	23.49	23.31	24.00
20	QPSK	1	49	ANT0	23.00	23.46	23.27	24.00
20	QPSK	1	99	ANT0	22.74	22.98	22.90	24.00
20	QPSK	50	0	ANT0	22.18	22.36	22.11	23.00
20	QPSK	50	25	ANT0	22.18	22.16	22.11	23.00
20	QPSK	50	50	ANT0	22.10	22.35	21.94	23.00
20	QPSK	100	0	ANT0	22.26	22.14	21.99	23.00
20	16QAM	1	0	ANT0	22.22	22.44	21.79	23.00
20	16QAM	1	49	ANT0	22.28	22.30	21.94	23.00
20	16QAM	1	99	ANT0	21.80	21.54	21.89	23.00
20	16QAM	50	0	ANT0	21.16	21.07	21.04	22.00
20	16QAM	50	25	ANT0	21.17	21.29	21.12	22.00
20	16QAM	50	50	ANT0	21.08	21.05	21.05	22.00
20	16QAM	100	0	ANT0	21.18	21.02	21.03	22.00

Band				LTE B12				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	23017	23095	23173	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	23.06	23.01	23.46	24.00
1.4	QPSK	1	2	ANT0	22.98	23.54	23.71	24.00
1.4	QPSK	1	5	ANT0	23.03	23.17	23.43	24.00
1.4	QPSK	3	0	ANT0	23.09	23.36	23.59	24.00
1.4	QPSK	3	1	ANT0	23.16	23.27	23.62	24.00
1.4	QPSK	3	3	ANT0	23.30	23.36	23.51	24.00
1.4	QPSK	6	0	ANT0	22.21	22.42	22.57	23.00
1.4	16QAM	1	0	ANT0	21.93	21.62	21.94	23.00
1.4	16QAM	1	2	ANT0	22.39	22.13	22.39	23.00
1.4	16QAM	1	5	ANT0	22.12	22.03	22.37	23.00
1.4	16QAM	3	0	ANT0	22.14	22.23	22.51	23.00
1.4	16QAM	3	1	ANT0	22.29	22.21	22.48	23.00
1.4	16QAM	3	3	ANT0	22.26	22.14	22.41	23.00
1.4	16QAM	6	0	ANT0	21.34	21.36	21.47	22.00

Band				LTE B12				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	23025	23095	23165	Tune-up power(dBm)
3	QPSK	1	0	ANT0	23.02	23.04	23.49	24.00
3	QPSK	1	7	ANT0	22.98	23.64	23.77	24.00
3	QPSK	1	14	ANT0	22.96	23.14	23.36	24.00
3	QPSK	8	0	ANT0	22.18	22.36	22.60	23.00
3	QPSK	8	3	ANT0	22.17	22.28	22.57	23.00
3	QPSK	8	7	ANT0	22.28	22.33	22.56	23.00
3	QPSK	15	0	ANT0	22.30	22.39	22.57	23.00
3	16QAM	1	0	ANT0	22.00	21.60	21.91	23.00
3	16QAM	1	7	ANT0	22.41	22.14	22.40	23.00
3	16QAM	1	14	ANT0	22.13	22.06	22.28	23.00
3	16QAM	8	0	ANT0	21.15	21.30	21.56	22.00
3	16QAM	8	3	ANT0	21.22	21.14	21.51	22.00
3	16QAM	8	7	ANT0	21.35	21.23	21.38	22.00
3	16QAM	15	0	ANT0	21.39	21.32	21.49	22.00

Band				LTE B12				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	23035	23095	23155	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.08	23.05	23.43	24.00
5	QPSK	1	12	ANT0	23.05	23.62	23.76	24.00
5	QPSK	1	24	ANT0	22.94	23.07	23.33	24.00
5	QPSK	12	0	ANT0	22.14	22.30	22.56	23.00
5	QPSK	12	6	ANT0	22.17	22.27	22.57	23.00
5	QPSK	12	13	ANT0	22.32	22.29	22.54	23.00
5	QPSK	25	0	ANT0	22.20	22.41	22.54	23.00
5	16QAM	1	0	ANT0	21.97	21.59	21.85	23.00
5	16QAM	1	12	ANT0	22.33	22.22	22.39	23.00
5	16QAM	1	24	ANT0	22.08	22.04	22.37	23.00
5	16QAM	12	0	ANT0	21.22	21.24	21.55	22.00
5	16QAM	12	6	ANT0	21.28	21.19	21.44	22.00
5	16QAM	12	13	ANT0	21.30	21.18	21.44	22.00
5	16QAM	25	0	ANT0	21.32	21.29	21.49	22.00

Band				LTE B12				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	23060	23095	23130	Tune-up power(dBm)
10	QPSK	1	0	ANT0	23.04	23.72	23.44	24.00
10	QPSK	1	24	ANT0	23.01	23.59	23.72	24.00
10	QPSK	1	49	ANT0	22.99	23.12	23.38	24.00
10	QPSK	25	0	ANT0	22.14	22.59	22.55	23.00
10	QPSK	25	12	ANT0	22.15	22.31	22.58	23.00
10	QPSK	25	25	ANT0	22.27	22.33	22.53	23.00
10	QPSK	50	0	ANT0	22.25	22.37	22.58	23.00
10	16QAM	1	0	ANT0	21.95	21.62	21.89	23.00
10	16QAM	1	24	ANT0	22.38	22.17	22.38	23.00
10	16QAM	1	49	ANT0	22.08	22.07	22.33	23.00
10	16QAM	25	0	ANT0	21.17	21.25	21.52	22.00
10	16QAM	25	12	ANT0	21.27	21.17	21.46	22.00
10	16QAM	25	25	ANT0	21.31	21.18	21.41	22.00
10	16QAM	50	0	ANT0	21.36	21.32	21.52	22.00

Band				LTE B13				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	23205	23230	23255	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.01	23.13	23.06	24.00
5	QPSK	1	12	ANT0	23.34	23.38	23.35	24.00
5	QPSK	1	24	ANT0	22.98	22.91	23.02	24.00
5	QPSK	12	0	ANT0	22.17	22.20	22.17	23.00
5	QPSK	12	6	ANT0	22.20	22.23	22.22	23.00
5	QPSK	12	13	ANT0	22.10	22.10	22.15	23.00
5	QPSK	25	0	ANT0	22.10	22.13	22.15	23.00
5	16QAM	1	0	ANT0	22.10	21.83	21.86	23.00
5	16QAM	1	12	ANT0	22.32	21.95	21.98	23.00
5	16QAM	1	24	ANT0	22.06	21.83	21.93	23.00
5	16QAM	12	0	ANT0	21.25	21.19	21.11	22.00
5	16QAM	12	6	ANT0	21.24	21.09	21.09	22.00
5	16QAM	12	13	ANT0	21.27	21.00	21.00	22.00
5	16QAM	25	0	ANT0	21.10	21.17	21.14	22.00

Band				LTE B13				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	/	23230	/	Tune-up power(dBm)
10	QPSK	1	0	ANT0	/	23.36	/	24.00
10	QPSK	1	24	ANT0	/	23.36	/	24.00
10	QPSK	1	49	ANT0	/	22.94	/	24.00
10	QPSK	25	0	ANT0	/	22.23	/	23.00
10	QPSK	25	12	ANT0	/	22.19	/	23.00
10	QPSK	25	25	ANT0	/	22.12	/	23.00
10	QPSK	50	0	ANT0	/	22.18	/	23.00
10	16QAM	1	0	ANT0	/	21.85	/	23.00
10	16QAM	1	24	ANT0	/	21.96	/	23.00
10	16QAM	1	49	ANT0	/	21.88	/	23.00
10	16QAM	25	0	ANT0	/	21.17	/	22.00
10	16QAM	25	12	ANT0	/	21.11	/	22.00
10	16QAM	25	25	ANT0	/	21.00	/	22.00
10	16QAM	50	0	ANT0	/	21.17	/	22.00

Band				LTE B25				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26047	26365	26683	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	23.51	23.88	23.62	24.50
1.4	QPSK	1	2	ANT0	23.38	23.55	23.45	24.50
1.4	QPSK	1	5	ANT0	23.51	23.47	23.6	24.50
1.4	QPSK	3	0	ANT0	23.55	23.44	23.61	24.50
1.4	QPSK	3	1	ANT0	23.46	23.41	23.43	24.50
1.4	QPSK	3	3	ANT0	23.42	23.29	23.51	24.50
1.4	QPSK	6	0	ANT0	22.58	22.51	22.61	23.50
1.4	16QAM	1	0	ANT0	22.6	22.25	23.01	23.50
1.4	16QAM	1	2	ANT0	22.37	22.04	22.38	23.50
1.4	16QAM	1	5	ANT0	22.16	22.03	22.11	23.50
1.4	16QAM	3	0	ANT0	22.57	22.23	22.31	23.50
1.4	16QAM	3	1	ANT0	22.17	22.2	22.2	23.50
1.4	16QAM	3	3	ANT0	22.31	22.25	22.32	23.50
1.4	16QAM	6	0	ANT0	21.55	21.42	21.45	22.50

Band				LTE B25				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26055	26365	26675	Tune-up power(dBm)
3	QPSK	1	0	ANT0	23.42	23.82	23.6	24.50
3	QPSK	1	7	ANT0	23.37	23.59	23.45	24.50
3	QPSK	1	14	ANT0	23.51	23.55	23.58	24.50
3	QPSK	8	0	ANT0	22.65	22.51	22.68	23.50
3	QPSK	8	3	ANT0	22.6	22.54	22.66	23.50
3	QPSK	8	7	ANT0	22.52	22.4	22.69	23.50
3	QPSK	15	0	ANT0	22.54	22.51	22.63	23.50
3	16QAM	1	0	ANT0	22.62	22.24	23.05	23.50
3	16QAM	1	7	ANT0	22.32	22.06	22.35	23.50
3	16QAM	1	14	ANT0	22.1	22.09	22.09	23.50
3	16QAM	8	0	ANT0	21.6	21.36	21.39	22.50
3	16QAM	8	3	ANT0	21.31	21.31	21.37	22.50
3	16QAM	8	7	ANT0	21.33	21.34	21.41	22.50
3	16QAM	15	0	ANT0	21.59	21.43	21.43	22.50

Band				LTE B25				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26065	26365	26665	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.44	23.85	23.58	24.50
5	QPSK	1	12	ANT0	23.34	23.53	23.41	24.50
5	QPSK	1	24	ANT0	23.50	23.51	23.53	24.50
5	QPSK	12	0	ANT0	22.66	22.54	22.77	23.50
5	QPSK	12	6	ANT0	22.66	22.49	22.67	23.50
5	QPSK	12	13	ANT0	22.55	22.42	22.67	23.50
5	QPSK	25	0	ANT0	22.54	22.53	22.67	23.50
5	16QAM	1	0	ANT0	22.70	22.17	23.02	23.50
5	16QAM	1	12	ANT0	22.32	22.02	22.29	23.50
5	16QAM	1	24	ANT0	22.18	22.06	22.11	23.50
5	16QAM	12	0	ANT0	21.58	21.30	21.39	22.50
5	16QAM	12	6	ANT0	21.26	21.30	21.29	22.50
5	16QAM	12	13	ANT0	21.43	21.39	21.43	22.50
5	16QAM	25	0	ANT0	21.51	21.42	21.45	22.50

Band				LTE B25				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26090	26365	26640	Tune-up power(dBm)
10	QPSK	1	0	ANT0	23.44	23.85	23.56	24.50
10	QPSK	1	24	ANT0	23.43	23.57	23.38	24.50
10	QPSK	1	49	ANT0	23.48	23.47	23.54	24.50
10	QPSK	25	0	ANT0	22.61	22.49	22.77	23.50
10	QPSK	25	12	ANT0	22.62	22.46	22.70	23.50
10	QPSK	25	25	ANT0	22.55	22.40	22.67	23.50
10	QPSK	50	0	ANT0	22.61	22.56	22.64	23.50
10	16QAM	1	0	ANT0	22.68	22.26	23.07	23.50
10	16QAM	1	24	ANT0	22.39	22.09	22.32	23.50
10	16QAM	1	49	ANT0	22.18	22.11	22.07	23.50
10	16QAM	25	0	ANT0	21.60	21.38	21.39	22.50
10	16QAM	25	12	ANT0	21.27	21.30	21.38	22.50
10	16QAM	25	25	ANT0	21.33	21.40	21.35	22.50
10	16QAM	50	0	ANT0	21.56	21.36	21.44	22.50

Band				LTE B25				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26115	26365	26615	Tune-up power(dBm)
15	QPSK	1	0	ANT0	23.48	23.89	23.52	24.50
15	QPSK	1	37	ANT0	23.44	23.57	23.37	24.50
15	QPSK	1	74	ANT0	23.48	23.55	23.58	24.50
15	QPSK	36	0	ANT0	22.65	22.50	22.69	23.50
15	QPSK	36	19	ANT0	22.56	22.49	22.65	23.50
15	QPSK	36	39	ANT0	22.52	22.34	22.74	23.50
15	QPSK	75	0	ANT0	22.55	22.60	22.65	23.50
15	16QAM	1	0	ANT0	22.67	22.17	22.99	23.50
15	16QAM	1	37	ANT0	22.37	22.01	22.29	23.50
15	16QAM	1	74	ANT0	22.13	22.11	22.06	23.50
15	16QAM	36	0	ANT0	21.64	21.33	21.36	22.50
15	16QAM	36	19	ANT0	21.31	21.32	21.31	22.50
15	16QAM	36	39	ANT0	21.35	21.37	21.44	22.50
15	16QAM	75	0	ANT0	21.55	21.36	21.41	22.50

Band				LTE B25				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26140	26365	26590	Tune-up power(dBm)
20	QPSK	1	0	ANT0	23.46	23.88	23.57	24.50
20	QPSK	1	49	ANT0	23.39	23.58	23.40	24.50
20	QPSK	1	99	ANT0	23.46	23.51	23.57	24.50
20	QPSK	50	0	ANT0	22.65	22.53	22.72	23.50
20	QPSK	50	25	ANT0	22.61	22.75	22.66	23.50
20	QPSK	50	50	ANT0	22.50	22.38	22.72	23.50
20	QPSK	100	0	ANT0	22.57	22.65	22.63	23.50
20	16QAM	1	0	ANT0	22.65	22.21	23.02	23.50
20	16QAM	1	49	ANT0	22.35	22.06	22.33	23.50
20	16QAM	1	99	ANT0	22.14	22.08	22.09	23.50
20	16QAM	50	0	ANT0	21.63	21.34	21.36	22.50
20	16QAM	50	25	ANT0	21.29	21.35	21.33	22.50
20	16QAM	50	50	ANT0	21.38	21.36	21.40	22.50
20	16QAM	100	0	ANT0	21.56	21.38	21.45	22.50

Band				LTE B26				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26697	26865	27033	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	23.14	23.13	23.13	24.00
1.4	QPSK	1	2	ANT0	23.34	23.46	23.09	24.00
1.4	QPSK	1	5	ANT0	23.06	22.92	22.75	24.00
1.4	QPSK	3	0	ANT0	23.10	23.13	22.90	24.00
1.4	QPSK	3	1	ANT0	23.13	23.05	22.93	24.00
1.4	QPSK	3	3	ANT0	23.11	23.00	22.73	24.00
1.4	QPSK	6	0	ANT0	22.16	22.20	21.87	23.00
1.4	16QAM	1	0	ANT0	22.19	22.26	22.50	23.00
1.4	16QAM	1	2	ANT0	22.80	22.72	22.61	23.00
1.4	16QAM	1	5	ANT0	22.27	21.90	22.23	23.00
1.4	16QAM	3	0	ANT0	22.04	22.16	21.81	23.00
1.4	16QAM	3	1	ANT0	22.17	22.02	21.98	23.00
1.4	16QAM	3	3	ANT0	21.99	21.92	21.67	23.00
1.4	16QAM	6	0	ANT0	21.14	21.05	20.94	22.00

Band				LTE B26				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26705	26865	27025	Tune-up power(dBm)
3	QPSK	1	0	ANT0	23.11	23.19	23.10	24.00
3	QPSK	1	7	ANT0	23.39	23.49	23.10	24.00
3	QPSK	1	14	ANT0	23.07	22.92	22.69	24.00
3	QPSK	8	0	ANT0	22.24	22.21	22.06	23.00
3	QPSK	8	3	ANT0	22.22	22.16	21.96	23.00
3	QPSK	8	7	ANT0	22.19	22.18	21.87	23.00
3	QPSK	15	0	ANT0	22.23	22.24	21.91	23.00
3	16QAM	1	0	ANT0	22.17	22.28	22.51	23.00
3	16QAM	1	7	ANT0	22.83	22.75	22.58	23.00
3	16QAM	1	14	ANT0	22.23	21.92	22.24	23.00
3	16QAM	8	0	ANT0	21.18	21.22	20.97	22.00
3	16QAM	8	3	ANT0	21.18	21.10	20.98	22.00
3	16QAM	8	7	ANT0	21.06	21.04	20.78	22.00
3	16QAM	15	0	ANT0	21.08	21.04	20.92	22.00

Band				LTE B26				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26715	26865	27015	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.07	23.14	23.06	24.00
5	QPSK	1	12	ANT0	23.35	23.40	23.10	24.00
5	QPSK	1	24	ANT0	23.06	23.00	22.65	24.00
5	QPSK	12	0	ANT0	22.26	22.19	22.05	23.00
5	QPSK	12	6	ANT0	22.21	22.18	21.99	23.00
5	QPSK	12	13	ANT0	22.24	22.19	21.86	23.00
5	QPSK	25	0	ANT0	22.23	22.23	21.82	23.00
5	16QAM	1	0	ANT0	22.17	22.23	22.53	23.00
5	16QAM	1	12	ANT0	22.81	22.73	22.57	23.00
5	16QAM	1	24	ANT0	22.26	21.94	22.25	23.00
5	16QAM	12	0	ANT0	21.12	21.28	20.92	22.00
5	16QAM	12	6	ANT0	21.23	21.10	21.03	22.00
5	16QAM	12	13	ANT0	21.09	21.02	20.77	22.00
5	16QAM	25	0	ANT0	21.07	21.09	20.95	22.00

Band				LTE B26				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26740	26865	26990	Tune-up power(dBm)
10	QPSK	1	0	ANT0	23.10	23.16	23.10	24.00
10	QPSK	1	24	ANT0	23.37	23.42	23.08	24.00
10	QPSK	1	49	ANT0	23.04	22.94	22.75	24.00
10	QPSK	25	0	ANT0	22.27	22.24	22.06	23.00
10	QPSK	25	12	ANT0	22.16	22.18	21.98	23.00
10	QPSK	25	25	ANT0	22.26	22.20	21.79	23.00
10	QPSK	50	0	ANT0	22.17	22.18	21.91	23.00
10	16QAM	1	0	ANT0	22.17	22.29	22.53	23.00
10	16QAM	1	24	ANT0	22.78	22.81	22.58	23.00
10	16QAM	1	49	ANT0	22.26	21.93	22.22	23.00
10	16QAM	25	0	ANT0	21.15	21.21	20.95	22.00
10	16QAM	25	12	ANT0	21.22	21.11	21.04	22.00
10	16QAM	25	25	ANT0	21.06	20.98	20.78	22.00
10	16QAM	50	0	ANT0	21.15	21.10	20.94	22.00

Band				LTE B26				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	26765	26865	26965	Tune-up power(dBm)
15	QPSK	1	0	ANT0	23.09	23.15	23.08	24.00
15	QPSK	1	37	ANT0	23.34	23.45	23.10	24.00
15	QPSK	1	74	ANT0	23.06	22.95	22.70	24.00
15	QPSK	36	0	ANT0	22.24	22.23	22.05	23.00
15	QPSK	36	19	ANT0	22.21	22.25	22.01	23.00
15	QPSK	36	39	ANT0	22.24	22.15	21.84	23.00
15	QPSK	75	0	ANT0	22.19	22.19	21.87	23.00
15	16QAM	1	0	ANT0	22.18	22.25	22.51	23.00
15	16QAM	1	37	ANT0	22.82	22.76	22.58	23.00
15	16QAM	1	74	ANT0	22.25	21.89	22.23	23.00
15	16QAM	36	0	ANT0	21.14	21.24	20.94	22.00
15	16QAM	36	19	ANT0	21.22	21.15	21.03	22.00
15	16QAM	36	39	ANT0	21.05	21.03	20.76	22.00
15	16QAM	75	0	ANT0	21.11	21.06	20.92	22.00

Band				LTE B66				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	131979	132322	132665	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	23.12	23.18	23.04	24.00
1.4	QPSK	1	2	ANT0	23.37	23.49	23.12	24.00
1.4	QPSK	1	5	ANT0	23.04	22.91	22.74	24.00
1.4	QPSK	3	0	ANT0	23.10	23.10	22.90	24.00
1.4	QPSK	3	1	ANT0	23.07	23.03	22.94	24.00
1.4	QPSK	3	3	ANT0	23.14	23.00	22.79	24.00
1.4	QPSK	6	0	ANT0	22.15	22.22	21.88	23.00
1.4	16QAM	1	0	ANT0	22.19	22.30	22.50	23.00
1.4	16QAM	1	2	ANT0	22.83	22.80	22.53	23.00
1.4	16QAM	1	5	ANT0	22.00	21.89	22.18	23.00
1.4	16QAM	3	0	ANT0	22.04	22.19	21.80	23.00
1.4	16QAM	3	1	ANT0	22.12	22.08	21.98	23.00
1.4	16QAM	3	3	ANT0	21.97	21.93	21.69	23.00
1.4	16QAM	6	0	ANT0	21.07	21.07	20.97	22.00

Band				LTE B66				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	131987	132322	132657	Tune-up power(dBm)
3	QPSK	1	0	ANT0	23.11	23.19	23.04	24.00
3	QPSK	1	7	ANT0	23.34	23.40	23.09	24.00
3	QPSK	1	14	ANT0	23.02	22.94	22.74	24.00
3	QPSK	8	0	ANT0	22.21	22.19	22.10	23.00
3	QPSK	8	3	ANT0	22.19	22.15	21.96	23.00
3	QPSK	8	7	ANT0	22.19	22.16	21.83	23.00
3	QPSK	15	0	ANT0	22.18	22.15	21.88	23.00
3	16QAM	1	0	ANT0	22.20	22.29	22.51	23.00
3	16QAM	1	7	ANT0	22.81	22.76	22.60	23.00
3	16QAM	1	14	ANT0	21.96	21.88	22.21	23.00
3	16QAM	8	0	ANT0	21.14	21.22	20.89	22.00
3	16QAM	8	3	ANT0	21.17	21.20	21.08	22.00
3	16QAM	8	7	ANT0	21.00	20.98	20.80	22.00
3	16QAM	15	0	ANT0	21.10	21.06	20.93	22.00

Band				LTE B66				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	131997	132322	132647	Tune-up power(dBm)
5	QPSK	1	0	ANT0	23.06	23.11	23.10	24.00
5	QPSK	1	12	ANT0	23.38	23.49	23.07	24.00
5	QPSK	1	24	ANT0	23.07	22.95	22.69	24.00
5	QPSK	12	0	ANT0	22.28	22.27	22.06	23.00
5	QPSK	12	6	ANT0	22.26	22.19	21.96	23.00
5	QPSK	12	13	ANT0	22.23	22.13	21.89	23.00
5	QPSK	25	0	ANT0	22.18	22.21	21.91	23.00
5	16QAM	1	0	ANT0	22.14	22.24	22.56	23.00
5	16QAM	1	12	ANT0	22.78	22.72	22.53	23.00
5	16QAM	1	24	ANT0	21.93	21.85	22.21	23.00
5	16QAM	12	0	ANT0	21.19	21.24	20.92	22.00
5	16QAM	12	6	ANT0	21.20	21.15	20.99	22.00
5	16QAM	12	13	ANT0	21.08	21.01	20.77	22.00
5	16QAM	25	0	ANT0	21.06	21.02	20.93	22.00

Band				LTE B66				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	132022	132322	132622	Tune-up power(dBm)
10	QPSK	1	0	ANT0	23.11	23.20	23.08	24.00
10	QPSK	1	24	ANT0	23.37	23.44	23.13	24.00
10	QPSK	1	49	ANT0	23.10	22.94	22.71	24.00
10	QPSK	25	0	ANT0	22.25	22.24	22.03	23.00
10	QPSK	25	12	ANT0	22.22	22.16	21.98	23.00
10	QPSK	25	25	ANT0	22.19	22.11	21.88	23.00
10	QPSK	50	0	ANT0	22.14	22.22	21.92	23.00
10	16QAM	1	0	ANT0	22.22	22.30	22.48	23.00
10	16QAM	1	24	ANT0	22.80	22.71	22.63	23.00
10	16QAM	1	49	ANT0	21.94	21.93	22.19	23.00
10	16QAM	25	0	ANT0	21.10	21.24	20.97	22.00
10	16QAM	25	12	ANT0	21.26	21.10	21.04	22.00
10	16QAM	25	25	ANT0	21.09	21.01	20.73	22.00
10	16QAM	50	0	ANT0	21.16	21.11	20.89	22.00

Band				LTE B66				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	132047	132322	132597	Tune-up power(dBm)
15	QPSK	1	0	ANT0	23.09	23.17	23.06	24.00
15	QPSK	1	37	ANT0	23.36	23.49	23.10	24.00
15	QPSK	1	74	ANT0	23.06	22.99	22.65	24.00
15	QPSK	36	0	ANT0	22.26	22.18	22.08	23.00
15	QPSK	36	19	ANT0	22.26	22.16	22.00	23.00
15	QPSK	36	39	ANT0	22.22	22.17	21.88	23.00
15	QPSK	75	0	ANT0	22.18	22.16	21.82	23.00
15	16QAM	1	0	ANT0	22.21	22.28	22.53	23.00
15	16QAM	1	37	ANT0	22.77	22.75	22.54	23.00
15	16QAM	1	74	ANT0	21.92	21.84	22.19	23.00
15	16QAM	36	0	ANT0	21.13	21.23	20.98	22.00
15	16QAM	36	19	ANT0	21.24	21.12	20.99	22.00
15	16QAM	36	39	ANT0	21.09	20.98	20.79	22.00
15	16QAM	75	0	ANT0	21.06	21.04	20.87	22.00

Band				LTE B66				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	132072	132322	132572	Tune-up power(dBm)
20	QPSK	1	0	ANT0	23.09	23.47	23.08	24.00
20	QPSK	1	49	ANT0	23.34	23.44	23.10	24.00
20	QPSK	1	99	ANT0	23.06	22.95	22.70	24.00
20	QPSK	50	0	ANT0	22.24	22.23	22.05	23.00
20	QPSK	50	25	ANT0	22.21	22.26	22.01	23.00
20	QPSK	50	50	ANT0	22.24	22.15	21.84	23.00
20	QPSK	100	0	ANT0	22.19	22.19	21.87	23.00
20	16QAM	1	0	ANT0	22.18	22.25	22.51	23.00
20	16QAM	1	49	ANT0	22.82	22.76	22.58	23.00
20	16QAM	1	99	ANT0	21.96	21.89	22.23	23.00
20	16QAM	50	0	ANT0	21.14	21.24	20.94	22.00
20	16QAM	50	25	ANT0	21.22	21.15	21.03	22.00
20	16QAM	50	50	ANT0	21.05	21.03	20.76	22.00
20	16QAM	100	0	ANT0	21.11	21.06	20.92	22.00

Band				LTE B38				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	37775	38000	38225	Tune-up power(dBm)
5	QPSK	1	0	ANT0	22.68	22.94	22.58	23.50
5	QPSK	1	12	ANT0	22.58	22.87	22.54	23.50
5	QPSK	1	24	ANT0	22.52	22.47	22.48	23.50
5	QPSK	12	0	ANT0	21.36	21.67	21.55	22.50
5	QPSK	12	6	ANT0	21.32	21.56	21.59	22.50
5	QPSK	12	13	ANT0	21.27	21.63	21.48	22.50
5	QPSK	25	0	ANT0	21.35	21.63	21.47	22.50
5	16QAM	1	0	ANT0	20.40	22.05	21.43	22.50
5	16QAM	1	12	ANT0	20.38	21.82	21.41	22.50
5	16QAM	1	24	ANT0	20.37	21.66	21.27	22.50
5	16QAM	12	0	ANT0	20.29	20.71	20.76	21.50
5	16QAM	12	6	ANT0	20.29	20.61	20.73	21.50
5	16QAM	12	13	ANT0	20.47	20.64	20.62	21.50
5	16QAM	25	0	ANT0	20.21	20.80	20.56	21.50

Band				LTE B38				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	37800	38000	38200	Tune-up power(dBm)
10	QPSK	1	0	ANT0	22.66	22.88	22.54	23.50
10	QPSK	1	24	ANT0	22.57	22.83	22.53	23.50
10	QPSK	1	49	ANT0	22.44	22.49	22.43	23.50
10	QPSK	25	0	ANT0	21.31	21.66	21.52	22.50
10	QPSK	25	12	ANT0	21.36	21.59	21.54	22.50
10	QPSK	25	25	ANT0	21.23	21.65	21.55	22.50
10	QPSK	50	0	ANT0	21.37	21.67	21.48	22.50
10	16QAM	1	0	ANT0	20.50	22.05	21.45	22.50
10	16QAM	1	24	ANT0	20.38	21.84	21.43	22.50
10	16QAM	1	49	ANT0	20.33	21.67	21.27	22.50
10	16QAM	25	0	ANT0	20.30	20.69	20.68	21.50
10	16QAM	25	12	ANT0	20.33	20.67	20.73	21.50
10	16QAM	25	25	ANT0	20.40	20.60	20.70	21.50
10	16QAM	50	0	ANT0	20.26	20.80	20.56	21.50

Band				LTE B38				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	37825	38000	38175	Tune-up power(dBm)
15	QPSK	1	0	ANT0	22.70	22.86	22.63	23.50
15	QPSK	1	37	ANT0	22.65	22.89	22.52	23.50
15	QPSK	1	74	ANT0	22.54	22.52	22.44	23.50
15	QPSK	36	0	ANT0	21.31	21.70	21.51	22.50
15	QPSK	36	19	ANT0	21.30	21.60	21.55	22.50
15	QPSK	36	39	ANT0	21.25	21.71	21.52	22.50
15	QPSK	75	0	ANT0	21.33	21.73	21.47	22.50
15	16QAM	1	0	ANT0	20.45	22.10	21.44	22.50
15	16QAM	1	37	ANT0	20.43	21.85	21.42	22.50
15	16QAM	1	74	ANT0	20.29	21.70	21.27	22.50
15	16QAM	36	0	ANT0	20.30	20.65	20.77	21.50
15	16QAM	36	19	ANT0	20.31	20.71	20.68	21.50
15	16QAM	36	39	ANT0	20.48	20.67	20.62	21.50
15	16QAM	75	0	ANT0	20.24	20.71	20.54	21.50

Band				LTE B38				
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	37850	38000	38150	Tune-up power(dBm)
20	QPSK	1	0	ANT0	22.65	22.89	22.58	23.50
20	QPSK	1	49	ANT0	22.61	22.88	22.50	23.50
20	QPSK	1	99	ANT0	22.49	22.91	22.43	23.50
20	QPSK	50	0	ANT0	21.35	21.69	21.56	22.50
20	QPSK	50	25	ANT0	21.33	21.56	21.57	22.50
20	QPSK	50	50	ANT0	21.27	21.68	21.50	22.50
20	QPSK	100	0	ANT0	21.37	21.68	21.45	22.50
20	16QAM	1	0	ANT0	20.45	22.07	21.43	22.50
20	16QAM	1	49	ANT0	20.40	21.84	21.41	22.50
20	16QAM	1	99	ANT0	20.33	21.67	21.22	22.50
20	16QAM	50	0	ANT0	20.27	20.67	20.73	21.50
20	16QAM	50	25	ANT0	20.33	20.66	20.71	21.50
20	16QAM	50	50	ANT0	20.45	20.62	20.65	21.50
20	16QAM	100	0	ANT0	20.26	20.75	20.52	21.50

Band				LTE B41						
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	39675	40110	40620	41130	41565	Tune-up power(dBm)
5	QPSK	1	0	ANT0	22.69	22.38	22.86	22.38	22.64	23.50
5	QPSK	1	12	ANT0	22.62	22.62	22.71	22.59	22.52	23.50
5	QPSK	1	24	ANT0	22.50	22.11	22.39	22.36	22.39	23.50
5	QPSK	12	0	ANT0	21.28	20.91	21.55	21.54	21.57	22.50
5	QPSK	12	6	ANT0	21.32	21.08	21.19	21.11	21.55	22.50
5	QPSK	12	13	ANT0	21.27	20.96	21.58	21.53	21.48	22.50
5	QPSK	25	0	ANT0	21.37	21.32	21.54	21.25	21.47	22.50
5	16QAM	1	0	ANT0	20.46	20.01	21.73	21.45	21.34	22.50
5	16QAM	1	12	ANT0	20.38	19.93	21.43	21.00	21.38	22.50
5	16QAM	1	24	ANT0	20.26	20.11	21.33	20.88	21.23	22.50
5	16QAM	12	0	ANT0	20.24	20.20	20.44	20.02	20.71	21.50
5	16QAM	12	6	ANT0	20.30	19.89	20.20	19.89	20.72	21.50
5	16QAM	12	13	ANT0	20.41	20.14	20.12	19.90	20.61	21.50
5	16QAM	25	0	ANT0	20.27	20.09	20.52	20.04	20.55	21.50

Band				LTE B41						
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	39700	40135	40620	41105	41540	Tune-up power(dBm)
10	QPSK	1	0	ANT0	22.65	22.46	22.92	22.86	22.56	23.50
10	QPSK	1	24	ANT0	22.67	22.37	22.87	22.56	22.56	23.50
10	QPSK	1	49	ANT0	22.45	22.08	22.53	22.33	22.37	23.50
10	QPSK	25	0	ANT0	21.28	21.13	21.73	21.64	21.60	22.50
10	QPSK	25	12	ANT0	21.34	21.30	21.62	21.35	21.58	22.50
10	QPSK	25	25	ANT0	21.33	21.30	21.69	21.21	21.49	22.50
10	QPSK	50	0	ANT0	21.31	21.02	21.63	21.40	21.48	22.50
10	16QAM	1	0	ANT0	20.48	20.08	22.10	21.88	21.41	22.50
10	16QAM	1	24	ANT0	20.33	20.07	21.87	21.51	21.39	22.50
10	16QAM	1	49	ANT0	20.33	20.24	21.61	21.37	21.15	22.50
10	16QAM	25	0	ANT0	20.27	19.90	20.65	20.39	20.74	21.50
10	16QAM	25	12	ANT0	20.37	20.14	20.61	20.28	20.72	21.50
10	16QAM	25	25	ANT0	20.42	20.18	20.60	20.36	20.56	21.50
10	16QAM	50	0	ANT0	20.29	20.28	20.66	20.62	20.59	21.50

Band				LTE B41						
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	39725	40160	40620	41080	41515	Tune-up power(dBm)
15	QPSK	1	0	ANT0	22.70	22.61	22.95	22.55	22.61	23.50
15	QPSK	1	37	ANT0	22.65	22.25	22.89	22.69	22.56	23.50
15	QPSK	1	74	ANT0	22.44	22.25	22.50	22.11	22.43	23.50
15	QPSK	36	0	ANT0	21.29	20.90	21.72	21.33	21.58	22.50
15	QPSK	36	19	ANT0	21.31	21.12	21.58	21.08	21.61	22.50
15	QPSK	36	39	ANT0	21.29	20.95	21.70	21.28	21.51	22.50
15	QPSK	75	0	ANT0	21.33	21.27	21.59	21.57	21.45	22.50
15	16QAM	1	0	ANT0	20.46	20.46	22.08	22.00	21.38	22.50
15	16QAM	1	37	ANT0	20.36	20.20	21.81	21.70	21.42	22.50
15	16QAM	1	74	ANT0	20.25	20.07	21.70	21.67	21.16	22.50
15	16QAM	36	0	ANT0	20.21	19.76	20.75	20.44	20.75	21.50
15	16QAM	36	19	ANT0	20.32	20.15	20.64	20.22	20.68	21.50
15	16QAM	36	39	ANT0	20.38	20.02	20.58	20.09	20.63	21.50
15	16QAM	75	0	ANT0	20.31	19.93	20.76	20.74	20.55	21.50

Band				LTE B41						
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	39750	40185	40620	41055	41490	Tune-up power(dBm)
20	QPSK	1	0	ANT0	22.67	22.33	22.93	22.83	22.60	23.50
20	QPSK	1	49	ANT0	22.65	22.29	22.87	22.44	22.54	23.50
20	QPSK	1	99	ANT0	22.47	22.30	22.48	22.17	22.41	23.50
20	QPSK	50	0	ANT0	21.33	21.26	21.72	21.55	21.60	22.50
20	QPSK	50	25	ANT0	21.33	20.93	21.75	21.71	21.60	22.50
20	QPSK	50	50	ANT0	21.29	21.06	21.71	21.30	21.47	22.50
20	QPSK	100	0	ANT0	21.36	20.90	21.63	21.15	21.49	22.50
20	16QAM	1	0	ANT0	20.44	20.41	22.06	21.73	21.39	22.50
20	16QAM	1	49	ANT0	20.36	20.31	21.83	21.37	21.43	22.50
20	16QAM	1	99	ANT0	20.29	19.98	21.66	21.24	21.20	22.50
20	16QAM	50	0	ANT0	20.25	20.23	20.70	20.24	20.75	21.50
20	16QAM	50	25	ANT0	20.34	20.21	20.66	20.27	20.71	21.50
20	16QAM	50	50	ANT0	20.41	19.94	20.57	20.38	20.61	21.50
20	16QAM	100	0	ANT0	20.28	20.28	20.71	20.39	20.54	21.50

8.4 WIFI Output Power

test Mode	Modulation	Channel number	Fre.(MHz)	output power(dBm)	tune up power(dBm)	SAR Test
WIFI 2.4G	11b	1	2412	19.26	20.00	No
		2	2417	21.30	22.00	Yes
		6	2437	22.45	22.00	Yes
		10	2457	21.47	22.00	Yes
		11	2462	19.40	20.00	No
	11g	1	2412	16.22	18.00	No
		2	2417	19.44	21.00	No
		6	2437	20.87	21.00	No
		10	2457	19.15	20.00	No
		11	2462	16.54	18.00	No
	HT20	1	2412	16.33	18.00	No
		2	2417	17.87	29.00	No
		6	2437	20.48	21.00	No
		10	2457	17.08	18.00	No
		11	2462	15.06	16.00	No
	ax20	1	2412	16.04	17.00	No
		2	2417	18.20	19.00	No
		6	2437	19.91	20.00	No
		10	2457	17.32	18.00	No
		11	2462	15.31	16.00	No
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. 1) SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. 2) According KDB 248227, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required. Adjusted SAR = $0.041 * (158.49\text{mW}/158.49\text{mW}) = 0.041$ W/Kg, so 2.4G OFDM SAR test is not required.						

test Mode	Modulation	Channel number	Fre.(MHz)	output power(dBm)	tune up power(dBm)	SAR Test
5.2 WIFI	11a	36	5180	14.54	15.00	No
		44	5220	16.39	17.00	No
		48	5240	18.79	19.00	No
	11n20	36	5180	14.03	15.00	No
		44	5220	15.90	16.00	No
		48	5240	16.42	17.00	No
	11n40	38	5190	12.08	13.00	No
		46	5230	18.26	19.00	No
		36	5180	14.02	15.00	No
	11ac20	44	5220	15.88	16.00	No
		48	5240	16.41	17.00	No
		38	5190	12.00	13.00	No
	11ac40	46	5230	18.23	19.00	No
		42	5210	11.56	12.00	No
		36	5180	14.26	15.00	No
	11ax20	44	5220	16.13	17.00	No
		48	5240	16.66	17.00	No
		38	5190	12.18	13.00	No
	11ax40	46	5230	17.95	18.00	No
		42	5210	11.71	12.00	No
		52	5260	18.98	19.00	No
5.3 WIFI	11a	60	5300	18.96	19.00	No
		64	5320	16.46	17.00	No
		52	5260	19.29	20.00	Yes
	11n20	60	5300	19.87	20.00	Yes
		64	5320	17.03	18.00	Yes
		54	5270	18.62	19.00	No
	11n40	62	5310	14.21	15.00	No
		52	5260	19.28	20.00	No
		60	5300	19.84	20.00	No
	11ac20	64	5320	17.00	18.00	No
		54	5270	18.60	19.00	No
		62	5310	14.18	15.00	No
	11ac40	58	5290	11.86	12.00	No
		52	5260	19.59	20.00	No
		60	5300	19.48	20.00	No
	11ax20	64	5320	17.32	18.00	No
		54	5270	18.34	19.00	No
		62	5310	13.91	14.00	No
	11ax40	58	5290	11.40	12.00	No
		100	5500	13.27	14.00	No
		116	5580	17.04	18.00	No
5.6G WIFI	11a	140	5700	10.96	11.00	No
		144	5720	15.81	16.00	No
		100	5500	12.86	13.00	No
		116	5580	17.18	18.00	No
	11n20	140	5700	13.53	14.00	No
		144	5720	15.82	16.00	No
		102	5510	10.52	11.00	No
		118	5590	17.87	18.50	Yes
	11n40	134	5670	17.75	18.50	Yes
		142	5710	17.60	18.50	Yes
		100	5500	13.17	14.00	No
		116	5580	17.18	18.00	No
	11ac20	140	5700	13.52	14.00	No
		144	5720	15.78	16.00	No
		102	5510	10.49	11.00	No
		118	5590	17.84	18.50	No
	11ac40	134	5670	17.72	18.50	No
		142	5710	17.20	18.50	No
		106	5530	10.07	11.00	No
		122	5610	13.87	14.00	No
	11ac80	138	5690	16.31	17.00	No
		100	5500	13.10	14.00	No
		116	5580	17.48	18.00	No
		140	5700	13.76	14.00	No
	11ac20	144	5720	15.94	16.00	No
		102	5510	10.57	11.00	No
		118	5590	18.11	18.50	No
		134	5670	17.46	18.50	No
	11ax40	142	5710	17.20	18.50	No
		106	5530	9.84	10.00	No
		122	5610	13.77	14.00	No
		138	5690	16.24	17.00	No

5.8G WIFI	11a	149	5745	16.97	18.00	No
		157	5785	17.07	18.00	No
		165	5825	17.40	18.00	No
	11n20	149	5745	17.12	18.00	No
		157	5785	17.21	18.00	No
		165	5825	17.42	18.00	No
	11n40	151	5755	17.34	18.00	Yes
		159	5795	17.28	18.00	Yes
	11ac20	149	5745	17.36	18.00	No
		157	5785	17.46	18.00	No
		165	5825	17.83	18.00	No
	11ac40	151	5755	17.32	18.00	No
		159	5795	17.27	18.00	No
	11ac80	155	5775	16.03	17.00	No
	11ax20	149	5745	17.64	18.00	No
		157	5785	17.48	18.00	No
		165	5825	17.67	18.00	No
	11ax40	151	5755	16.98	17.00	No
		159	5795	16.98	17.00	No
	11ax80	155	5775	15.96	16.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

2) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.

3) When multiple transmission modes (802.11a/g/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., i.e., 802.11a was chosen, then 802.11n, followed by 802.11ac, and finally 802.11ax.

8.5 Bluetooth

8.5.1 Bluetooth Output Power

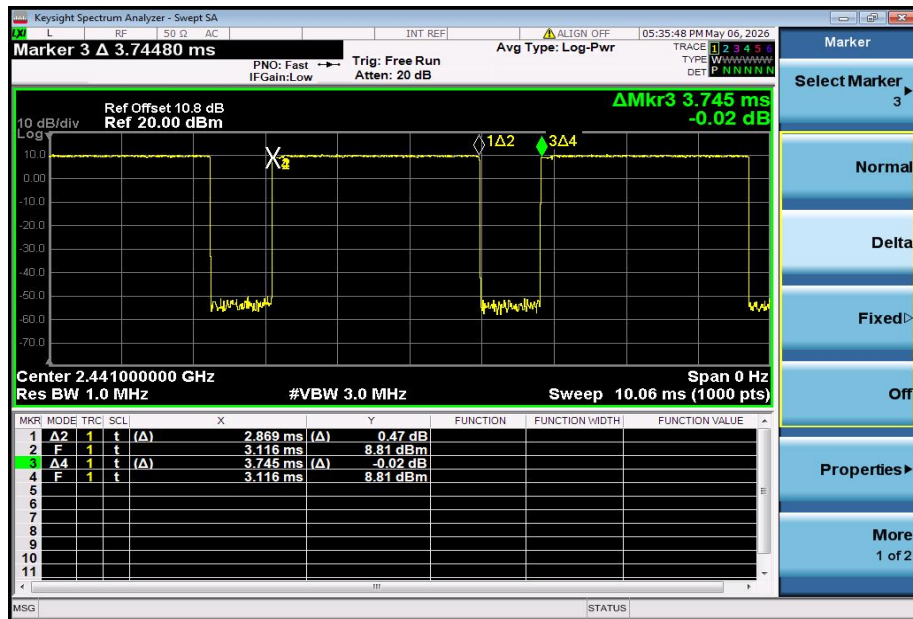
Bluetooth(Module 1)					
test Mode	Modulation	Fre.(MHz)	AV output power(dBm)	Tune up power(dBm)	SAR Test
BT	DH5	2402	7.10	8.00	No
		2441	7.42	8.00	No
		2480	5.38	8.00	No
	2DH5	2402	7.90	8.50	Yes
		2441	8.03	8.50	Yes
		2480	5.78	8.50	Yes
	3DH5	2402	7.85	8.50	No
		2441	7.97	8.50	No
		2480	5.80	7.00	No
	BLE1M	2402	6.94	8.00	Yes
		2440	8.04	8.50	Yes
		2480	8.01	8.50	Yes
	BLE2M	2404	6.91	8.00	No
		2440	7.98	8.50	No
		2478	7.94	8.50	No
Note: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation,and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.					

Bluetooth(Module 2)					
test Mode	Modulation	Fre.(MHz)	AV output power(dBm)	Tune up power(dBm)	SAR Test
BT	BLE1M	2402	5.60	6.00	Yes
		2440	4.36	5.00	Yes
		2480	2.60	4.00	Yes
	BLE2M	2404	5.51	6.00	No
		2440	4.38	5.00	No
		2478	2.52	4.00	No
Note: Since bluetooth BLE 1M mode is the maximum output power mode, SAR measurements were performed with test software using BLE 1M modulation.					

8.2.2 Bluetooth Duty Cycle

The Bluetooth (Module 1)-DH5 duty cycle is 76.61% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

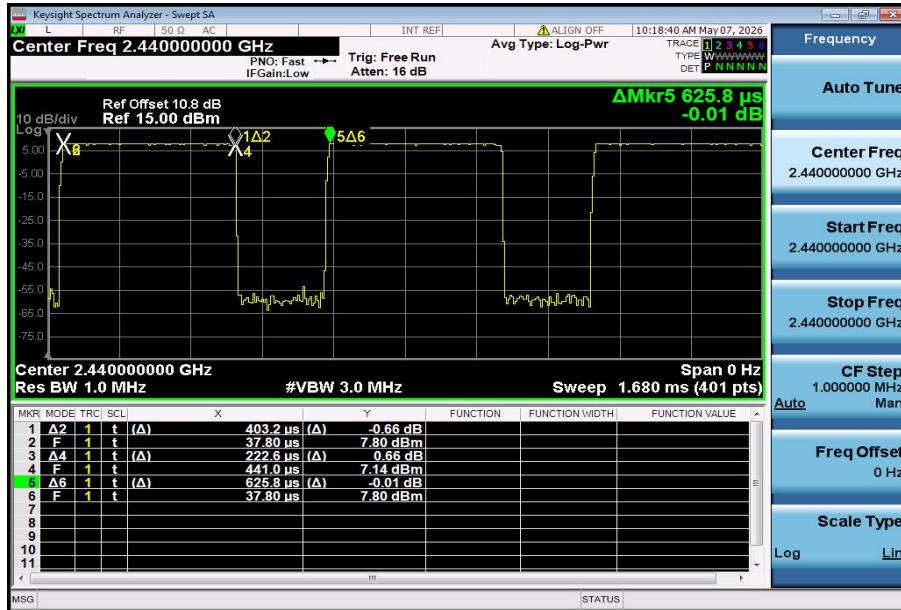
Duty Cycle



8.5.2 Bluetooth Duty Cycle

The Bluetooth (Module 1)-BLE 1M duty cycle is 64.43% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle



The Bluetooth(Module 2)-BLE 1M duty cycle is 90.83% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

