

# Appendix E

## Conducted RF Output Power



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## 1 Conducted Power of Legacy

### 1.1 Conducted Power of Legacy

GSM 850										
Burst Output Power(dBm)						Division Factors	Frame-Average Output Power(dBm)			
Channel		128	190	251	Tune up		128	190	251	Tune up
GPRS (GMSK)	1 TX Slot	34.06	34.49	34.32	35.00	-9.19	24.87	25.30	25.13	25.81
	2 TX Slots	33.01	33.38	33.19	34.00	-6.18	26.83	27.20	27.01	27.82
	3 TX Slots	30.81	31.20	31.00	32.00	-4.42	26.39	26.78	26.58	27.58
	4 TX Slots	29.56	29.97	29.76	30.00	-3.17	26.39	26.80	26.59	26.83
EGPRS (GMSK)	1 TX Slot	34.06	34.49	34.32	35.00	-9.19	24.87	25.30	25.13	25.81
	2 TX Slots	33.01	33.38	33.19	34.00	-6.18	26.83	27.20	27.01	27.82
	3 TX Slots	30.81	31.20	31.00	32.00	-4.42	26.39	26.78	26.58	27.58
	4 TX Slots	29.56	29.97	29.76	30.00	-3.17	26.39	26.80	26.59	26.83
EGPRS (8PSK)	1 TX Slot	27.72	28.23	28.37	29.00	-9.19	18.53	19.04	19.18	19.81
	2 TX Slots	26.61	27.03	27.18	28.00	-6.18	20.43	20.85	21.00	21.82
	3 TX Slots	24.26	24.65	24.62	26.00	-4.42	19.84	20.23	20.20	21.58
	4 TX Slots	22.62	23.10	23.30	24.00	-3.17	19.45	19.93	20.13	20.83

GSM 1900										
Burst Output Power(dBm)						Division Factors	Frame-Average Output Power(dBm)			
Channel		512	661	810	Tune up		512	661	810	Tune up
GPRS (GMSK)	1 TX Slot	31.63	31.00	30.81	32.00	-9.19	22.44	21.81	21.62	22.81
	2 TX Slots	30.57	29.97	29.76	31.00	-6.18	24.39	23.79	23.58	24.82
	3 TX Slots	28.54	27.88	27.64	29.00	-4.42	24.12	23.46	23.22	24.58
	4 TX Slots	27.32	26.89	27.04	28.00	-3.17	24.15	23.72	23.87	24.83
EGPRS (GMSK)	1 TX Slot	31.63	31.00	30.81	32.00	-9.19	22.44	21.81	21.62	22.81
	2 TX Slots	30.57	29.97	29.76	31.00	-6.18	24.39	23.79	23.58	24.82
	3 TX Slots	28.54	27.88	27.64	29.00	-4.42	24.12	23.46	23.22	24.58
	4 TX Slots	27.32	26.66	26.45	28.00	-3.17	24.15	23.49	23.28	24.83
EGPRS (8PSK)	1 TX Slot	27.51	27.15	26.98	28.00	-9.19	18.32	17.96	17.79	18.81
	2 TX Slots	26.26	25.94	25.86	27.00	-6.18	20.08	19.76	19.68	20.82
	3 TX Slots	24.06	23.58	23.39	25.00	-4.42	19.64	19.16	18.97	20.58
	4 TX Slots	22.73	22.08	23.08	24.00	-3.17	19.56	18.91	19.91	20.83



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WCDMA Band II					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	21.43	21.5	21.39	22.50
HSDPA	Subtest 1	19.68	19.33	19.04	20.50
	Subtest 2	19.69	19.32	19.02	20.50
	Subtest 3	19.65	19.32	19.05	20.50
	Subtest 4	19.64	19.33	19.05	20.50
HSUPA	Subtest 1	16.98	16.96	16.93	17.50
	Subtest 2	17.13	16.69	16.49	17.50
	Subtest 3	17.13	16.69	16.46	17.50
	Subtest 4	17.39	16.73	16.81	17.50
	Subtest 5	17.34	17.73	17.63	18.50

WCDMA Band V					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.79	24.43	24.10	25.00
HSDPA	Subtest 1	21.60	22.18	21.85	23.00
	Subtest 2	21.62	22.22	21.78	23.00
	Subtest 3	21.58	22.17	21.80	23.00
	Subtest 4	21.60	22.22	21.79	23.00
HSUPA	Subtest 1	19.05	19.74	19.72	20.00
	Subtest 2	19.09	19.48	19.69	20.00
	Subtest 3	18.89	19.98	19.37	20.00
	Subtest 4	19.10	20.03	19.64	21.00
	Subtest 5	19.30	19.85	19.57	21.00

LTE Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	23.87	23.32	23.08	24.50
		1	2	23.93	23.46	23.28	24.50
		1	5	23.77	23.41	23.32	24.50
		3	0	23.92	23.43	23.10	24.50
		3	2	23.93	23.49	23.18	24.50
		3	3	23.86	23.49	23.20	24.50
		6	0	22.91	22.43	22.16	23.50



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		1	0	23.00	22.33	22.01	23.50
		1	2	23.11	22.48	22.17	23.50
		1	5	22.94	22.41	22.20	23.50
	16QAM	3	0	22.90	22.65	22.13	23.50
		3	2	22.90	22.75	22.19	23.50
		3	3	22.88	22.73	22.20	23.50
		6	0	21.89	21.47	21.07	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	23.98	23.45	22.98	24.50
		1	7	23.97	23.63	23.25	24.50
		1	14	23.80	23.67	23.41	24.50
		8	0	22.89	22.42	22.06	23.50
		8	4	22.87	22.53	22.17	23.50
		8	7	22.79	22.55	22.21	23.50
		15	0	22.83	22.50	22.12	23.50
	16QAM	1	0	23.48	22.41	22.14	23.50
		1	7	23.47	22.66	22.36	23.50
		1	14	23.30	22.64	22.47	23.50
		8	0	22.02	21.47	21.00	22.50
		8	4	22.00	21.58	21.10	22.50
		8	7	21.92	21.61	21.14	22.50
		15	0	21.88	21.52	21.06	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	23.90	23.26	23.06	24.50
		1	13	23.83	23.56	23.06	24.50
		1	24	23.68	23.72	23.34	24.50
		12	0	22.85	22.33	21.92	23.50
		12	6	22.80	22.52	22.06	23.50
		12	13	22.73	22.67	22.05	23.50
		25	0	22.81	22.54	22.05	23.50
	16QAM	1	0	22.77	22.36	22.32	23.50
		1	13	22.66	22.64	22.31	23.50
		1	24	22.52	22.80	22.43	23.50
		12	0	21.87	21.33	21.02	22.50
		12	6	21.82	21.53	21.13	22.50
		12	13	21.76	21.65	21.10	22.50
		25	0	21.79	21.51	21.04	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
10MHz	QPSK	1	0	23.90	23.33	24.02	24.50
		1	25	23.91	23.69	23.33	24.50
		1	49	23.58	23.90	23.33	24.50
		25	0	22.83	22.35	22.61	23.50
		25	13	22.77	22.58	22.28	23.50
		25	25	22.70	22.87	22.16	23.50
		50	0	22.78	22.64	22.37	23.50
	16QAM	1	0	23.44	22.30	23.18	23.50
		1	25	23.39	22.68	22.50	23.50
		1	49	23.06	22.86	22.34	23.50
		25	0	21.84	21.40	21.61	22.50
		25	13	21.82	21.67	21.29	22.50
		25	25	21.75	21.95	21.16	22.50
		50	0	21.78	21.65	21.37	22.50
15MHz	QPSK	1	0	23.84	23.37	23.66	24.50
		1	38	23.73	23.54	23.74	24.50
		1	74	23.31	23.69	23.18	24.50
		36	0	22.84	22.35	23.09	23.50
		36	18	22.79	22.57	22.78	23.50
		36	39	22.60	22.90	22.29	23.50
		75	0	22.75	22.68	22.72	23.50
	16QAM	1	0	23.35	22.75	22.79	23.50
		1	38	23.23	22.97	22.91	23.50
		1	74	22.75	23.06	22.20	23.50
		36	0	21.81	21.33	22.08	22.50
		36	18	21.77	21.57	21.76	22.50
		36	39	21.56	21.90	21.32	22.50
		75	0	21.69	21.63	21.70	22.50
20MHz	QPSK	1	0	23.66	23.30	23.05	24.50
		1	50	23.83	23.71	24.23	24.50
		1	99	23.27	23.27	22.97	24.50
		50	0	22.63	22.35	22.86	23.50
		50	25	22.67	22.65	22.94	23.50
		50	50	22.36	22.56	22.60	23.50
		100	0	22.60	22.63	22.76	23.50



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16QAM	1	0	22.85	22.56	22.54	23.50
	1	50	22.93	22.99	23.43	23.50
	1	99	22.43	22.50	22.35	23.50
	50	0	21.75	21.37	21.83	22.50
	50	25	21.62	21.62	21.90	22.50
	50	50	21.34	21.84	21.55	22.50
	100	0	21.58	21.61	21.74	22.50

LTE Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	23.39	23.54	23.38	24.00
		1	2	23.52	23.64	23.52	24.00
		1	5	23.41	23.58	23.43	24.00
		3	0	23.48	23.63	23.53	24.00
		3	2	23.48	23.64	23.58	24.00
		3	3	23.50	23.61	23.53	24.00
		6	0	22.44	22.61	22.52	23.00
	16QAM	1	0	22.35	22.67	22.34	23.00
		1	2	22.53	22.81	22.50	23.00
		1	5	22.43	22.68	22.31	23.00
		3	0	22.59	22.62	22.59	23.00
		3	2	22.55	22.66	22.73	23.00
		3	3	22.58	22.66	22.64	23.00
		6	0	21.40	21.68	21.51	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	23.40	23.54	23.17	24.00
		1	7	23.54	23.68	23.09	24.00
		1	14	23.45	23.55	22.93	24.00
		8	0	22.39	22.51	22.12	23.00
		8	4	22.46	22.57	22.13	23.00
		8	7	22.42	22.51	21.91	23.00
		15	0	22.43	22.52	22.01	23.00
	16QAM	1	0	22.94	22.55	21.98	23.00
		1	7	22.89	22.69	22.18	23.00
		1	14	22.96	22.50	22.07	23.00
		8	0	21.58	21.62	21.11	22.00



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		8	4	21.67	21.65	21.10	22.00
		8	7	21.56	21.61	20.93	22.00
		15	0	21.38	21.59	21.01	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	22.87	22.93	22.60	24.00
		1	13	23.02	23.06	22.86	24.00
		1	24	23.04	22.98	22.85	24.00
		12	0	21.94	21.92	21.74	23.00
		12	6	21.99	22.06	21.85	23.00
		12	13	22.00	22.03	21.83	23.00
		25	0	22.00	22.05	21.83	23.00
	16QAM	1	0	21.67	22.06	21.83	23.00
		1	13	21.88	22.16	22.12	23.00
		1	24	21.91	22.07	22.11	23.00
		12	0	20.97	21.06	20.83	22.00
		12	6	21.07	21.15	20.94	22.00
		12	13	21.10	21.18	20.96	22.00
		25	0	21.06	21.20	20.84	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	22.83	23.01	22.76	24.00
		1	25	23.30	23.21	22.79	24.00
		1	49	23.14	23.08	22.88	24.00
		25	0	22.06	21.99	21.85	23.00
		25	13	22.17	22.05	21.83	23.00
		25	25	22.28	22.16	21.76	23.00
		50	0	22.18	22.15	21.81	23.00
	16QAM	1	0	22.40	21.98	21.92	23.00
		1	25	22.88	22.23	21.97	23.00
		1	49	22.73	22.06	22.03	23.00
		25	0	21.16	21.23	20.97	22.00
		25	13	21.28	21.38	20.83	22.00
		25	25	21.40	21.44	20.82	22.00
		50	0	21.21	21.40	20.84	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	22.81	22.97	23.06	24.00
		1	38	23.24	23.02	22.67	24.00
		1	74	22.90	23.02	22.83	24.00



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		36	0	22.10	21.94	22.07	23.00
		36	18	22.21	22.05	21.80	23.00
		36	39	22.21	22.13	21.71	23.00
		75	0	22.18	22.05	21.92	23.00
	16QAM	1	0	22.22	22.08	22.60	23.00
		1	38	22.68	22.17	22.21	23.00
		1	74	22.36	22.18	22.33	23.00
		36	0	21.12	21.02	21.11	22.00
		36	18	21.26	21.13	20.89	22.00
		36	39	21.25	21.19	20.74	22.00
		75	0	21.23	21.12	20.96	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	20175	/	
20MHz	QPSK	1	0	/	23.54	/	24.00
		1	50	/	23.44	/	24.00
		1	99	/	23.42	/	24.00
		50	0	/	22.46	/	23.00
		50	25	/	22.42	/	23.00
		50	50	/	22.44	/	23.00
		100	0	/	22.34	/	23.00
	16QAM	1	0	/	22.36	/	23.00
		1	50	/	22.74	/	23.00
		1	99	/	22.36	/	23.00
		50	0	/	20.90	/	22.00
		50	25	/	21.09	/	22.00
		50	50	/	21.14	/	22.00
		100	0	/	21.06	/	22.00

LTE Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	22.85	23.32	23.10	24.00
		1	2	22.95	23.32	23.10	24.00
		1	5	22.83	23.11	23.03	24.00
		3	0	22.87	23.34	23.13	24.00
		3	2	22.57	23.29	23.13	24.00
		3	3	22.39	23.20	23.08	24.00
		6	0	21.37	22.29	22.12	23.00



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		1	0	21.31	22.48	22.07	23.00
		1	2	21.39	22.48	22.10	23.00
		1	5	21.34	22.25	21.99	23.00
	16QAM	3	0	21.42	22.31	22.32	23.00
		3	2	21.43	22.26	22.33	23.00
		3	3	21.41	22.22	22.26	23.00
		6	0	20.33	21.34	21.16	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	
3MHz	QPSK	1	0	22.42	23.51	23.20	24.00
		1	7	22.51	23.43	23.33	24.00
		1	14	22.40	22.93	23.06	24.00
		8	0	21.35	22.38	22.19	23.00
		8	4	21.40	22.26	22.19	23.00
		8	7	21.35	22.09	22.13	23.00
		15	0	21.31	22.23	22.12	23.00
	16QAM	1	0	21.38	22.64	22.70	23.00
		1	7	21.50	22.55	22.82	23.00
		1	14	21.37	22.07	22.58	23.00
		8	0	20.43	21.39	21.38	22.00
		8	4	20.49	21.30	21.40	22.00
		8	7	20.46	21.13	21.32	22.00
		15	0	20.41	21.25	21.24	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	22.28	23.49	22.77	24.00
		1	13	22.41	23.28	23.23	24.00
		1	24	22.60	22.62	23.00	24.00
		12	0	21.23	22.43	22.00	23.00
		12	6	21.39	22.30	22.16	23.00
		12	13	21.47	22.01	22.07	23.00
		25	0	21.39	22.25	22.06	23.00
	16QAM	1	0	21.13	22.54	21.99	23.00
		1	13	21.26	22.37	22.44	23.00
		1	24	21.43	21.71	22.24	23.00
		12	0	20.30	21.46	21.11	22.00
		12	6	20.47	21.39	21.29	22.00
		12	13	20.53	21.01	21.17	22.00
		25	0	20.45	21.32	21.07	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				/	20525	/	
10MHz	QPSK	1	0	/	23.38	/	24.00
		1	25	/	23.32	/	24.00
		1	49	/	22.41	/	24.00
		25	0	/	22.48	/	23.00
		25	13	/	22.27	/	23.00
		25	25	/	21.86	/	23.00
		50	0	/	22.20	/	23.00
	16QAM	1	0	/	22.54	/	23.00
		1	25	/	22.56	/	23.00
		1	49	/	21.58	/	23.00
		25	0	/	21.54	/	22.00
		25	13	/	21.32	/	22.00
		25	25	/	20.95	/	22.00
		50	0	/	21.24	/	22.00

LTE Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	23.57	22.76	22.60	24.00
		1	13	23.70	22.54	22.87	24.00
		1	24	23.38	22.29	23.02	24.00
		12	0	22.26	21.61	21.65	23.00
		12	6	22.15	21.58	21.80	23.00
		12	13	22.10	21.43	21.99	23.00
		25	0	22.11	21.55	21.80	23.00
	16QAM	1	0	22.08	22.00	21.42	23.00
		1	13	22.22	21.75	21.68	23.00
		1	24	22.05	21.50	21.81	23.00
		12	0	21.12	20.72	20.64	22.00
		12	6	21.20	20.71	20.79	22.00
		12	13	21.17	20.56	20.94	22.00
		25	0	21.18	20.59	20.82	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	23.20	23.22	23.08	24.00
		1	25	23.30	22.77	22.86	24.00
		1	49	23.09	22.67	23.04	24.00



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		25	0	22.17	21.97	21.90	23.00
		25	13	22.12	21.70	21.80	23.00
		25	25	22.00	21.64	21.93	23.00
		50	0	22.12	21.82	21.91	23.00
	16QAM	1	0	22.12	22.32	22.53	23.00
		1	25	22.22	21.92	22.34	23.00
		1	49	22.01	21.84	22.57	23.00
		25	0	21.26	21.06	21.00	22.00
		25	13	21.22	20.84	20.82	22.00
		25	25	21.17	20.73	20.95	22.00
		50	0	21.17	20.87	20.97	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	23.16	23.16	22.83	24.00
		1	38	23.05	22.63	22.95	24.00
		1	74	23.30	22.91	22.97	24.00
		36	0	22.22	22.12	22.20	23.00
		36	18	22.13	21.78	22.06	23.00
		36	39	22.26	21.75	21.95	23.00
		75	0	22.21	21.97	22.08	23.00
	16QAM	1	0	22.41	22.28	22.35	23.00
		1	38	22.30	21.78	22.44	23.00
		1	74	22.59	22.04	22.43	23.00
		36	0	21.18	21.19	21.26	22.00
		36	18	21.17	20.85	21.11	22.00
		36	39	21.26	20.82	20.96	22.00
		75	0	21.17	20.99	21.07	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	22.96	22.73	23.15	24.00
		1	50	22.84	22.68	22.96	24.00
		1	99	22.73	22.52	22.80	24.00
		50	0	22.19	21.94	22.24	23.00
		50	25	22.17	21.74	22.07	23.00
		50	50	22.14	21.69	21.93	23.00
		100	0	22.09	21.77	22.13	23.00
	16QAM	1	0	22.17	22.07	21.45	23.00
		1	50	22.53	22.21	22.39	23.00
		1	99	21.96	22.37	21.96	23.00
		50	0	21.07	20.96	20.98	22.00



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		50	25	21.24	20.79	21.12	22.00
		50	50	21.21	20.76	20.93	22.00
		100	0	21.15	20.85	20.97	22.00



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## 2 Conducted Power of WIFI and Bluetooth

### 2.1 Conducted Power of 2.4G WIFI

WIFI 2.4G Ant					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	13.04	14.00
	6	2437		13.24	14.00
	11	2462		13.18	14.00
802.11g	1	2412	6	12.40	13.00
	6	2437		12.29	13.00
	11	2462		12.66	13.00
802.11n HT20	1	2412	6.5	12.49	13.00
	6	2437		11.94	13.00
	11	2462		12.59	13.00
802.11n HT40	3	2422	13.5	11.47	13.00
	6	2437		12.12	13.00
	9	2452		11.47	13.00



## 2.2 Conducted Power of 5G WIFI

WIFI 5G Ant					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	12.80	13.00
		40	5200	12.46	13.00
		48	5240	11.48	13.00
	802.11n HT20	36	5180	11.84	12.00
		40	5200	11.75	12.00
		48	5240	10.77	12.00
	802.11n HT40	38	5190	11.95	12.00
		46	5230	11.57	12.00
5GHz U-NII-2A	802.11a	52	5260	11.69	13.00
		60	5300	11.62	13.00
		64	5320	11.54	13.00
	802.11n HT20	52	5260	10.23	12.00
		60	5300	11.84	12.00
		64	5320	11.02	12.00
	802.11n HT40	54	5270	11.57	12.00
		62	5310	11.54	12.00
5GHz UNII-2C	802.11a	100	5500	11.46	13.00
		116	5580	12.16	13.00
		140	5700	12.13	13.00
	802.11n HT20	100	5500	11.27	12.00
		116	5580	11.95	12.00
		140	5700	11.39	12.00
	802.11n HT40	102	5510	9.22	10.00
		110	5550	11.38	12.00
		134	5670	11.60	12.00
5GHz UNII-3	802.11a	149	5745	11.58	13.00
		157	5785	11.94	13.00
		165	5825	11.88	13.00
	802.11n HT20	149	5745	10.93	12.00
		157	5785	11.20	12.00
		165	5825	11.15	12.00
	802.11n HT40	151	5755	11.38	12.00
		159	5795	11.53	12.00



## 2.3 Conducted Power of Bluetooth

BT Ant		Average Conducted Power(dBm)			Tune up
Band	Channel	0	39	78	
BT	GFSK	6.35	7.44	6.56	8.00
	π/4DQPSK	3.76	4.89	4.07	5.00
	8DPSK	3.71	4.94	4.05	5.00
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	6.58	7.71	6.81	8.00

- End of the Appendix -