



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Appendix E

Conducted RF Output Power

Measurement of RF Conducted Power
1. Conducted Power of GSM
2. Conducted Power of WCDMA
3. Conducted Power of LTE
4. Conducted Power of WIFI2.4G
5. Conducted Power of WIFI5G
6. Conducted Power of Bluetooth

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1. Conducted Power of GSM

GSM 850 Ant 4										
Burst Output Power(dBm)						Division Factors	Frame-Average Output Power(dBm)			
Channel		128	190	251	Tune up		128	190	251	Tune up
GSM(GMSK)	GSM	33.51	33.54	33.43	34.50	-9.19	24.32	24.35	24.24	25.31
GPRS (GMSK)	1 TX Slot	33.47	33.48	33.35	34.50	-9.19	24.28	24.29	24.16	25.31
	2 TX Slots	32.65	32.77	32.56	33.50	-6.18	26.47	26.59	26.38	27.32
	3 TX Slots	30.51	30.70	30.45	31.50	-4.42	26.09	26.28	26.03	27.08
	4 TX Slots	29.35	29.48	29.23	30.50	-3.17	26.18	26.31	26.06	27.33
EGPRS (GMSK)	1 TX Slot	33.37	33.57	33.29	34.50	-9.19	24.18	24.38	24.10	25.31
	2 TX Slots	32.62	32.78	32.58	33.50	-6.18	26.44	26.60	26.40	27.32
	3 TX Slots	30.53	30.74	30.53	31.50	-4.42	26.11	26.32	26.11	27.08
	4 TX Slots	29.34	29.56	29.19	30.50	-3.17	26.17	26.39	26.02	27.33
EGPRS (8PSK)	1 TX Slot	27.34	27.53	27.12	28.50	-9.19	18.15	18.34	17.93	19.31
	2 TX Slots	26.70	26.89	26.62	28.00	-6.18	20.52	20.71	20.44	21.82
	3 TX Slots	24.74	24.81	24.36	26.00	-4.42	20.32	20.39	19.94	21.58
	4 TX Slots	23.52	23.60	23.35	24.50	-3.17	20.35	20.43	20.18	21.33

GSM 1900 Ant 4										
Burst Output Power(dBm)						Division Factors	Frame-Average Output Power(dBm)			
Channel		512	661	810	Tune up		512	661	810	Tune up
GSM(GMSK)	GSM	30.22	30.54	30.48	31.50	-9.19	21.03	21.35	21.29	22.31
GPRS (GMSK)	1 TX Slot	30.22	30.59	30.52	31.50	-9.19	21.03	21.40	21.33	22.31
	2 TX Slots	29.26	29.56	29.51	30.50	-6.18	23.08	23.38	23.33	24.32
	3 TX Slots	27.25	27.63	27.56	28.50	-4.42	22.83	23.21	23.14	24.08
	4 TX Slots	26.31	26.57	26.50	27.50	-3.17	23.14	23.40	23.33	24.33
EGPRS (GMSK)	1 TX Slot	30.28	30.45	30.45	31.50	-9.19	21.09	21.26	21.26	22.31
	2 TX Slots	29.28	29.56	29.53	30.50	-6.18	23.10	23.38	23.35	24.32
	3 TX Slots	27.30	27.50	27.47	28.50	-4.42	22.88	23.08	23.05	24.08
	4 TX Slots	26.22	26.48	26.44	27.50	-3.17	23.05	23.31	23.27	24.33
EGPRS (8PSK)	1 TX Slot	26.47	26.62	26.57	27.50	-9.19	17.28	17.43	17.38	18.31
	2 TX Slots	25.75	25.97	25.91	27.00	-6.18	19.57	19.79	19.73	20.82
	3 TX Slots	24.00	24.18	24.35	25.00	-4.42	19.58	19.76	19.93	20.58
	4 TX Slots	22.68	22.94	22.94	24.00	-3.17	19.51	19.77	19.77	20.83



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2. Conducted Power of WCDMA

WCDMA Band II Ant 4					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.89	24.09	23.79	25.00
HSDPA	Subtest 1	22.04	22.08	21.84	23.00
	Subtest 2	21.99	22.19	21.94	23.00
	Subtest 3	21.94	22.12	21.88	23.00
	Subtest 4	22.06	22.22	21.86	23.00
HSUPA	Subtest 1	20.73	20.80	20.46	22.00
	Subtest 2	20.74	20.70	20.03	22.00
	Subtest 3	20.74	20.44	20.14	21.50
	Subtest 4	20.74	20.47	20.46	21.50
	Subtest 5	20.75	20.70	20.46	21.50

WCDMA Band IV Ant 4					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.59	23.81	23.74	25.00
HSDPA	Subtest 1	21.77	22.44	22.34	23.50
	Subtest 2	21.83	22.50	22.33	23.50
	Subtest 3	21.84	22.41	22.37	23.50
	Subtest 4	21.95	22.41	22.34	23.50
HSUPA	Subtest 1	20.10	20.28	20.71	21.50
	Subtest 2	20.23	20.27	20.37	21.50
	Subtest 3	20.40	20.40	20.81	21.50
	Subtest 4	20.19	20.32	20.63	21.50
	Subtest 5	20.20	20.26	20.81	21.50

WCDMA Band V Ant 4					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.43	23.69	23.61	25.00
HSDPA	Subtest 1	21.92	22.21	22.31	23.50
	Subtest 2	22.12	22.20	22.33	23.50
	Subtest 3	22.01	22.11	22.27	23.50
	Subtest 4	22.09	22.18	22.22	23.50
HSUPA	Subtest 1	21.16	21.13	21.24	22.50
	Subtest 2	21.23	21.21	21.24	22.50
	Subtest 3	21.22	21.35	21.33	22.50
	Subtest 4	21.12	21.25	21.21	22.50
	Subtest 5	21.32	21.21	21.17	22.50



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3. Conducted Power of LTE

LTE Band 2 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	22.63	22.78	22.65	24.00
		1	2	22.49	22.67	22.54	24.00
		1	5	22.43	22.73	22.48	24.00
		3	0	22.61	22.87	22.71	24.00
		3	2	22.43	22.73	22.45	24.00
		3	3	22.46	22.70	22.44	24.00
		6	0	21.55	21.74	21.61	23.00
	16QAM	1	0	21.52	21.76	21.61	23.00
		1	2	21.39	21.54	21.40	23.00
		1	5	21.37	21.66	21.38	23.00
		3	0	21.46	21.68	21.63	23.00
		3	2	21.38	21.65	21.43	23.00
		3	3	21.33	21.59	21.35	23.00
		6	0	20.55	20.70	20.68	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	22.60	22.88	22.69	24.00
		1	7	22.46	22.73	22.51	24.00
		1	14	22.44	22.65	22.52	24.00
		8	0	21.53	21.68	21.57	23.00
		8	4	21.36	21.64	21.42	23.00
		8	7	21.35	21.62	21.31	23.00
		15	0	21.50	21.63	21.68	23.00
	16QAM	1	0	21.45	21.58	21.43	23.00
		1	7	21.32	21.63	21.34	23.00
		1	14	21.36	21.67	21.38	23.00
		8	0	20.48	20.70	20.69	22.00
		8	4	20.48	20.80	20.58	22.00
		8	7	20.32	20.62	20.36	22.00
		15	0	20.42	20.53	20.38	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	22.63	22.88	22.71	24.00
		1	13	22.49	22.73	22.55	24.00
		1	24	22.50	22.72	22.53	24.00
		12	0	21.50	21.73	21.53	23.00
		12	6	21.33	21.56	21.39	23.00
		12	13	21.33	21.67	21.35	23.00
		25	0	21.53	21.66	21.62	23.00



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	16QAM	1	0	21.36	21.59	21.36	23.00
		1	13	21.36	21.55	21.32	23.00
		1	24	21.38	21.64	21.34	23.00
		12	0	20.46	20.74	20.65	22.00
		12	6	20.52	20.79	20.57	22.00
		12	13	20.38	20.59	20.37	22.00
		25	0	20.38	20.61	20.37	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	22.65	22.87	22.67	24.00
		1	25	22.42	22.75	22.54	24.00
		1	49	22.49	22.73	22.45	24.00
		25	0	21.54	21.75	21.59	23.00
		25	13	21.34	21.59	21.40	23.00
		25	25	21.40	21.66	21.32	23.00
		50	0	21.47	21.69	21.63	23.00
	16QAM	1	0	21.39	21.58	21.37	23.00
		1	25	21.40	21.62	21.36	23.00
		1	49	21.44	21.67	21.38	23.00
		25	0	20.54	20.74	20.66	22.00
		25	13	20.52	20.71	20.54	22.00
		25	25	20.32	20.52	20.40	22.00
		50	0	20.34	20.61	20.32	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	22.58	22.87	22.70	24.00
		1	38	22.41	22.74	22.51	24.00
		1	74	22.50	22.75	22.53	24.00
		36	0	21.52	21.72	21.57	23.00
		36	18	21.37	21.57	21.46	23.00
		36	39	21.38	21.63	21.40	23.00
		75	0	21.51	21.66	21.62	23.00
	16QAM	1	0	21.36	21.66	21.46	23.00
		1	38	21.38	21.63	21.34	23.00
		1	74	21.40	21.66	21.39	23.00
		36	0	20.46	20.72	20.68	22.00
		36	18	20.53	20.75	20.62	22.00
		36	39	20.40	20.61	20.45	22.00
		75	0	20.38	20.56	20.39	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	22.76	22.97	22.83	24.00
		1	50	22.60	22.85	22.64	24.00
		1	99	22.60	22.84	22.63	24.00
		50	0	21.65	21.86	21.73	23.00



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		50	25	21.50	21.73	21.57	23.00
		50	50	21.52	21.80	21.49	23.00
		100	0	21.64	21.83	21.78	23.00
	16QAM	1	0	21.54	21.75	21.55	23.00
		1	50	21.51	21.74	21.52	23.00
		1	99	21.53	21.79	21.52	23.00
		50	0	20.65	20.87	20.78	22.00
		50	25	20.63	20.90	20.73	22.00
		50	50	20.52	20.72	20.54	22.00
		100	0	20.52	20.72	20.48	22.00

LTE Band 4 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	22.70	22.79	22.78	24.00
		1	2	22.68	22.68	22.68	24.00
		1	5	22.75	22.73	22.66	24.00
		3	0	22.69	22.76	22.80	24.00
		3	2	22.61	22.68	22.61	24.00
		3	3	22.74	22.75	22.72	24.00
		6	0	21.69	21.69	21.67	23.00
	16QAM	1	0	21.60	21.65	21.67	23.00
		1	2	21.73	21.71	21.68	23.00
		1	5	21.65	21.64	21.58	23.00
		3	0	21.68	21.75	21.77	23.00
		3	2	21.61	21.67	21.64	23.00
		3	3	21.64	21.63	21.71	23.00
		6	0	20.59	20.56	20.62	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	22.75	22.69	22.78	24.00
		1	7	22.67	22.70	22.61	24.00
		1	14	22.70	22.75	22.70	24.00
		8	0	21.75	21.68	21.68	23.00
		8	4	21.64	21.59	21.69	23.00
		8	7	21.68	21.63	21.71	23.00
		15	0	21.67	21.68	21.75	23.00
	16QAM	1	0	21.68	21.62	21.64	23.00
		1	7	21.69	21.77	21.71	23.00
		1	14	21.65	21.62	21.65	23.00
		8	0	20.62	20.58	20.61	22.00
		8	4	20.61	20.59	20.55	22.00
		8	7	20.58	20.66	20.57	22.00
		15	0	20.58	20.58	20.57	22.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	22.73	22.73	22.79	24.00
		1	13	22.70	22.71	22.61	24.00
		1	24	22.74	22.68	22.70	24.00
		12	0	21.68	21.70	21.73	23.00
		12	6	21.65	21.64	21.64	23.00
		12	13	21.64	21.65	21.70	23.00
		25	0	21.72	21.66	21.72	23.00
	16QAM	1	0	21.67	21.64	21.64	23.00
		1	13	21.73	21.70	21.68	23.00
		1	24	21.58	21.63	21.58	23.00
		12	0	20.63	20.59	20.60	22.00
		12	6	20.51	20.56	20.52	22.00
		12	13	20.59	20.63	20.58	22.00
		25	0	20.56	20.57	20.62	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	22.69	22.77	22.77	24.00
		1	25	22.69	22.62	22.61	24.00
		1	49	22.72	22.70	22.73	24.00
		25	0	21.69	21.73	21.77	23.00
		25	13	21.59	21.66	21.61	23.00
		25	25	21.70	21.66	21.70	23.00
		50	0	21.67	21.71	21.71	23.00
	16QAM	1	0	21.64	21.63	21.65	23.00
		1	25	21.77	21.68	21.67	23.00
		1	49	21.59	21.63	21.58	23.00
		25	0	20.64	20.55	20.63	22.00
		25	13	20.52	20.60	20.55	22.00
		25	25	20.65	20.58	20.58	22.00
		50	0	20.58	20.60	20.60	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	22.72	22.78	22.78	24.00
		1	38	22.68	22.66	22.64	24.00
		1	74	22.67	22.70	22.68	24.00
		36	0	21.68	21.76	21.74	23.00
		36	18	21.67	21.61	21.65	23.00
		36	39	21.69	21.71	21.62	23.00
		75	0	21.74	21.69	21.74	23.00
	16QAM	1	0	21.68	21.60	21.68	23.00
		1	38	21.72	21.71	21.69	23.00
		1	74	21.64	21.58	21.62	23.00
		36	0	20.56	20.59	20.54	22.00



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		36	18	20.57	20.55	20.54	22.00
		36	39	20.59	20.62	20.57	22.00
		75	0	20.60	20.56	20.59	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	20175	/	
20MHz	QPSK	1	0	/	22.89	/	24.00
		1	50	/	22.81	/	24.00
		1	99	/	22.85	/	24.00
		50	0	/	21.87	/	23.00
		50	25	/	21.79	/	23.00
		50	50	/	21.81	/	23.00
		100	0	/	21.84	/	23.00
	16QAM	1	0	/	21.79	/	23.00
		1	50	/	21.86	/	23.00
		1	99	/	21.75	/	23.00
		50	0	/	20.74	/	22.00
		50	25	/	20.70	/	22.00
		50	50	/	20.75	/	22.00
		100	0	/	20.74	/	22.00

LTE Band 5 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	22.79	22.82	22.84	24.00
		1	2	22.71	22.72	22.74	24.00
		1	5	22.74	22.66	22.74	24.00
		3	0	22.81	22.81	22.76	24.00
		3	2	22.74	22.75	22.71	24.00
		3	3	22.65	22.75	22.66	24.00
		6	0	21.72	21.68	21.71	23.00
	16QAM	1	0	21.68	21.70	21.70	23.00
		1	2	21.71	21.78	21.73	23.00
		1	5	21.55	21.61	21.62	23.00
		3	0	21.74	21.64	21.70	23.00
		3	2	21.62	21.59	21.61	23.00
		3	3	21.58	21.67	21.60	23.00
		6	0	20.60	20.55	20.56	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	
3MHz	QPSK	1	0	22.76	22.81	22.76	24.00
		1	7	22.73	22.65	22.65	24.00
		1	14	22.73	22.74	22.73	24.00
		8	0	21.73	21.74	21.68	23.00
		8	4	21.62	21.57	21.56	23.00



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		8	7	21.62	21.62	21.66	23.00
		15	0	21.70	21.71	21.71	23.00
	16QAM	1	0	21.73	21.63	21.73	23.00
		1	7	21.74	21.74	21.80	23.00
		1	14	21.62	21.62	21.60	23.00
		8	0	20.67	20.61	20.70	22.00
		8	4	20.63	20.63	20.60	22.00
		8	7	20.53	20.57	20.53	22.00
		15	0	20.53	20.60	20.62	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	22.84	22.78	22.83	24.00
		1	13	22.74	22.74	22.68	24.00
		1	24	22.67	22.68	22.75	24.00
		12	0	21.67	21.73	21.73	23.00
		12	6	21.59	21.58	21.57	23.00
		12	13	21.69	21.67	21.63	23.00
		25	0	21.66	21.69	21.68	23.00
	16QAM	1	0	21.67	21.69	21.69	23.00
		1	13	21.77	21.78	21.72	23.00
		1	24	21.59	21.58	21.59	23.00
		12	0	20.69	20.65	20.67	22.00
		12	6	20.60	20.61	20.60	22.00
		12	13	20.56	20.58	20.52	22.00
		25	0	20.59	20.58	20.61	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	20525	/	
10MHz	QPSK	1	0	/	22.95	/	24.00
		1	25	/	22.84	/	24.00
		1	49	/	22.84	/	24.00
		25	0	/	21.89	/	23.00
		25	13	/	21.74	/	23.00
		25	25	/	21.78	/	23.00
		50	0	/	21.84	/	23.00
	16QAM	1	0	/	21.83	/	23.00
		1	25	/	21.79	/	23.00
		1	49	/	21.73	/	23.00
		25	0	/	20.80	/	22.00
		25	13	/	20.75	/	22.00
		25	25	/	20.72	/	22.00
		50	0	/	20.71	/	22.00



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LTE Band 7 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	22.60	22.83	22.65	24.00
		1	13	22.51	22.61	22.51	24.00
		1	24	22.55	22.64	22.48	24.00
		12	0	21.66	21.85	21.69	23.00
		12	6	21.43	21.61	21.59	23.00
		12	13	21.56	21.68	21.46	23.00
	16QAM	25	0	21.59	21.84	21.66	23.00
		1	0	21.64	21.74	21.77	23.00
		1	13	21.46	21.61	21.58	23.00
		1	24	21.51	21.71	21.58	23.00
		12	0	20.69	20.73	20.69	22.00
		12	6	20.50	20.49	20.52	22.00
		12	13	20.44	20.69	20.62	22.00
		25	0	20.54	20.64	20.54	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	22.67	22.81	22.72	24.00
		1	25	22.49	22.57	22.49	24.00
		1	49	22.54	22.64	22.50	24.00
		25	0	21.74	21.87	21.74	23.00
		25	13	21.50	21.61	21.54	23.00
		25	25	21.52	21.71	21.51	23.00
		50	0	21.57	21.79	21.62	23.00
	16QAM	1	0	21.63	21.70	21.75	23.00
		1	25	21.47	21.66	21.60	23.00
		1	49	21.51	21.69	21.56	23.00
		25	0	20.67	20.73	20.66	22.00
		25	13	20.57	20.59	20.49	22.00
		25	25	20.51	20.64	20.61	22.00
		50	0	20.51	20.67	20.55	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	22.69	22.73	22.65	24.00
		1	38	22.43	22.62	22.56	24.00
		1	74	22.51	22.66	22.49	24.00
		36	0	21.71	21.80	21.70	23.00
		36	18	21.46	21.58	21.59	23.00
		36	39	21.48	21.65	21.55	23.00
		75	0	21.62	21.82	21.65	23.00
	16QAM	1	0	21.67	21.75	21.72	23.00
		1	38	21.52	21.60	21.60	23.00



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		1	74	21.49	21.71	21.49	23.00
		36	0	20.64	20.81	20.69	22.00
		36	18	20.48	20.53	20.50	22.00
		36	39	20.43	20.60	20.53	22.00
		75	0	20.56	20.63	20.47	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	22.79	22.93	22.84	24.00
		1	50	22.63	22.73	22.68	24.00
		1	99	22.66	22.82	22.67	24.00
		50	0	21.83	21.99	21.85	23.00
		50	25	21.60	21.77	21.71	23.00
		50	50	21.66	21.81	21.65	23.00
		100	0	21.76	21.94	21.79	23.00
	16QAM	1	0	21.82	21.90	21.87	23.00
		1	50	21.61	21.78	21.72	23.00
		1	99	21.66	21.83	21.68	23.00
		50	0	20.81	20.90	20.80	22.00
		50	25	20.67	20.69	20.64	22.00
		50	50	20.61	20.79	20.72	22.00
		100	0	20.71	20.81	20.66	22.00

LTE FDD Band 12 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23017	23095	23173	
1.4MHz	QPSK	1	0	22.68	22.80	22.86	24.00
		1	2	22.89	22.85	22.82	24.00
		1	5	22.76	22.71	22.76	24.00
		3	0	22.77	22.78	22.86	24.00
		3	2	22.93	22.85	22.87	24.00
		3	3	22.70	22.67	22.77	24.00
		6	0	21.91	21.86	21.86	23.00
	16QAM	1	0	21.63	21.59	21.63	23.00
		1	2	21.77	21.77	21.82	23.00
		1	5	21.79	21.86	21.77	23.00
		3	0	21.91	21.94	21.85	23.00
		3	2	21.61	21.62	21.57	23.00
		3	3	21.78	21.87	21.80	23.00
		6	0	20.95	20.89	20.99	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23025	23095	23165	
3MHz	QPSK	1	0	22.67	22.80	22.84	24.00
		1	7	22.89	22.86	22.85	24.00
		1	14	22.76	22.64	22.74	24.00



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		8	0	21.84	21.92	21.99	23.00
		8	4	21.92	21.93	22.04	23.00
		8	7	21.88	21.87	21.81	23.00
		15	0	21.99	21.90	21.79	23.00
	16QAM	1	0	21.56	21.69	21.55	23.00
		1	7	21.76	21.82	21.81	23.00
		1	14	21.75	21.82	21.71	23.00
		8	0	20.81	20.81	20.63	22.00
		8	4	20.94	20.91	20.95	22.00
		8	7	20.94	20.80	20.80	22.00
		15	0	20.94	20.88	20.95	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23035	23095	23155	
5MHz	QPSK	1	0	22.77	22.81	22.86	24.00
		1	13	22.89	22.87	22.83	24.00
		1	24	22.73	22.69	22.71	24.00
		12	0	21.78	21.96	21.99	23.00
		12	6	21.92	21.84	21.95	23.00
		12	13	21.94	21.81	21.83	23.00
		25	0	21.98	21.86	21.80	23.00
	16QAM	1	0	21.64	21.69	21.55	23.00
		1	13	21.71	21.85	21.77	23.00
		1	24	21.70	21.85	21.75	23.00
		12	0	20.80	20.80	20.71	22.00
		12	6	20.98	20.87	21.01	22.00
		12	13	20.93	20.90	20.78	22.00
		25	0	20.89	20.91	21.02	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23095	/	
10MHz	QPSK	1	0	/	23.03	/	24.00
		1	25	/	22.97	/	24.00
		1	49	/	22.89	/	24.00
		25	0	/	22.09	/	23.00
		25	13	/	22.03	/	23.00
		25	25	/	21.97	/	23.00
		50	0	/	22.01	/	23.00
	16QAM	1	0	/	21.88	/	23.00
		1	25	/	21.93	/	23.00
		1	49	/	21.99	/	23.00
		25	0	/	20.97	/	22.00
		25	13	/	20.96	/	22.00
		25	25	/	21.09	/	22.00
		50	0	/	21.01	/	22.00



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LTE FDD Band 13 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23230	/	
5MHz	QPSK	1	0	/	22.80	/	24.00
		1	13	/	22.68	/	24.00
		1	24	/	22.65	/	24.00
		12	0	/	21.86	/	23.00
		12	6	/	21.73	/	23.00
		12	13	/	21.70	/	23.00
	16QAM	25	0	/	21.71	/	23.00
		1	0	/	21.66	/	23.00
		1	13	/	21.63	/	23.00
		1	24	/	21.71	/	23.00
		12	0	/	20.64	/	22.00
		12	6	/	20.75	/	22.00
		12	13	/	20.71	/	22.00
		25	0	/	20.73	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23230	/	
10MHz	QPSK	1	0	/	22.89	/	24.00
		1	25	/	22.83	/	24.00
		1	49	/	22.76	/	24.00
		25	0	/	22.04	/	23.00
		25	13	/	21.93	/	23.00
		25	25	/	21.92	/	23.00
	16QAM	50	0	/	21.88	/	23.00
		1	0	/	21.79	/	23.00
		1	25	/	21.83	/	23.00
		1	49	/	21.90	/	23.00
		25	0	/	20.92	/	22.00
		25	13	/	20.86	/	22.00
		25	25	/	21.02	/	22.00
		50	0	/	20.89	/	22.00

LTE FDD Band 14 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23330	/	
5MHz	QPSK	1	0	/	22.74	/	24.00
		1	13	/	22.72	/	24.00
		1	24	/	22.67	/	24.00
		12	0	/	21.78	/	23.00
		12	6	/	21.70	/	23.00
		12	13	/	21.73	/	23.00



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	16QAM	25	0	/	21.71	/	23.00
		1	0	/	21.67	/	23.00
		1	13	/	21.63	/	23.00
		1	24	/	21.63	/	23.00
		12	0	/	20.60	/	22.00
		12	6	/	20.67	/	22.00
		12	13	/	20.77	/	22.00
		25	0	/	20.76	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23330	/	
10MHz	QPSK	1	0	/	22.98	/	24.00
		1	25	/	22.90	/	24.00
		1	49	/	22.82	/	24.00
		25	0	/	22.04	/	23.00
		25	13	/	21.92	/	23.00
		25	25	/	21.88	/	23.00
		50	0	/	21.88	/	23.00
	16QAM	1	0	/	21.83	/	23.00
		1	25	/	21.85	/	23.00
		1	49	/	21.88	/	23.00
		25	0	/	20.83	/	22.00
		25	13	/	20.91	/	22.00
		25	25	/	20.97	/	22.00
		50	0	/	20.94	/	22.00

LTE FDD Band 17 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23790	/	
5MHz	QPSK	1	0	/	22.67	/	24.00
		1	13	/	22.63	/	24.00
		1	24	/	22.66	/	24.00
		12	0	/	21.63	/	23.00
		12	6	/	21.64	/	23.00
		12	13	/	21.69	/	23.00
		25	0	/	21.61	/	23.00
	16QAM	1	0	/	21.63	/	23.00
		1	13	/	21.61	/	23.00
		1	24	/	21.66	/	23.00
		12	0	/	20.74	/	22.00
		12	6	/	20.61	/	22.00
		12	13	/	20.65	/	22.00
		25	0	/	20.66	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23790	/	



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10MHz	QPSK	1	0	/	22.79	/	24.00
		1	25	/	22.61	/	24.00
		1	49	/	22.63	/	24.00
		25	0	/	21.72	/	23.00
		25	13	/	21.71	/	23.00
		25	25	/	21.67	/	23.00
		50	0	/	21.66	/	23.00
	16QAM	1	0	/	21.69	/	23.00
		1	25	/	21.68	/	23.00
		1	49	/	21.62	/	23.00
		25	0	/	20.67	/	22.00
		25	13	/	20.64	/	22.00
		25	25	/	20.73	/	22.00
		50	0	/	20.70	/	22.00

LTE Band 25 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26047	26365	26683	
1.4MHz	QPSK	1	0	22.99	23.20	23.05	24.00
		1	2	22.85	22.96	22.84	24.00
		1	5	22.76	23.11	22.84	24.00
		3	0	22.92	23.22	23.02	24.00
		3	2	22.76	22.98	22.87	24.00
		3	3	22.77	23.07	22.79	24.00
		6	0	21.84	22.03	22.00	23.00
	16QAM	1	0	21.74	21.95	21.70	23.00
		1	2	21.73	21.97	21.74	23.00
		1	5	21.75	21.91	21.69	23.00
		3	0	21.77	22.04	21.86	23.00
		3	2	21.58	21.83	21.81	23.00
		3	3	21.76	22.01	21.65	23.00
		6	0	20.71	20.93	20.65	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26055	26365	26675	
3MHz	QPSK	1	0	22.97	23.19	23.05	24.00
		1	7	22.80	22.97	22.85	24.00
		1	14	22.83	23.10	22.81	24.00
		8	0	21.75	22.12	21.89	23.00
		8	4	21.65	21.87	21.76	23.00
		8	7	21.73	21.99	21.68	23.00
		15	0	21.84	22.02	21.99	23.00
	16QAM	1	0	21.71	21.89	21.72	23.00
		1	7	21.69	22.03	21.78	23.00
		1	14	21.74	21.95	21.64	23.00



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		8	0	20.81	21.04	20.92	22.00
		8	4	20.82	21.14	20.87	22.00
		8	7	20.62	20.88	20.68	22.00
		15	0	20.73	20.91	20.69	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26065	26365	26665	
5MHz	QPSK	1	0	22.99	23.18	23.06	24.00
		1	13	22.79	22.92	22.81	24.00
		1	24	22.83	23.03	22.85	24.00
		12	0	21.84	22.07	21.88	23.00
		12	6	21.61	21.87	21.78	23.00
		12	13	21.73	22.01	21.69	23.00
		25	0	21.86	22.00	21.97	23.00
	16QAM	1	0	21.77	21.89	21.72	23.00
		1	13	21.67	21.98	21.74	23.00
		1	24	21.82	22.00	21.67	23.00
		12	0	20.81	21.03	20.91	22.00
		12	6	20.83	21.13	20.91	22.00
		12	13	20.65	20.97	20.67	22.00
		25	0	20.78	20.92	20.65	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26090	26365	26640	
10MHz	QPSK	1	0	22.99	23.21	22.99	24.00
		1	25	22.77	22.95	22.85	24.00
		1	49	22.74	23.04	22.88	24.00
		25	0	21.79	22.04	21.84	23.00
		25	13	21.62	21.81	21.81	23.00
		25	25	21.76	22.03	21.65	23.00
		50	0	21.82	22.01	22.02	23.00
	16QAM	1	0	21.72	21.89	21.68	23.00
		1	25	21.71	21.93	21.75	23.00
		1	49	21.78	21.96	21.68	23.00
		25	0	20.72	21.07	20.98	22.00
		25	13	20.82	21.07	20.85	22.00
		25	25	20.61	20.90	20.70	22.00
		50	0	20.77	20.84	20.69	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26115	26365	26615	
15MHz	QPSK	1	0	22.98	23.14	23.02	24.00
		1	38	22.76	22.93	22.85	24.00
		1	74	22.78	23.02	22.84	24.00
		36	0	21.79	22.07	21.88	23.00
		36	18	21.66	21.82	21.80	23.00
		36	39	21.72	22.03	21.70	23.00
		75	0	21.81	22.05	21.94	23.00



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	16QAM	1	0	21.72	21.89	21.72	23.00
		1	38	21.72	21.93	21.71	23.00
		1	74	21.78	21.97	21.66	23.00
		36	0	20.79	21.06	20.93	22.00
		36	18	20.86	21.04	20.94	22.00
		36	39	20.63	20.96	20.71	22.00
		75	0	20.71	20.94	20.64	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26140	26365	26590	
20MHz	QPSK	1	0	23.20	23.41	23.26	24.00
		1	50	23.03	23.20	23.06	24.00
		1	99	23.01	23.28	23.05	24.00
		50	0	22.01	22.29	22.08	23.00
		50	25	21.86	22.08	22.03	23.00
		50	50	21.94	22.20	21.89	23.00
		100	0	22.06	22.27	22.22	23.00
	16QAM	1	0	21.95	22.15	21.96	23.00
		1	50	21.93	22.20	21.95	23.00
		1	99	21.99	22.18	21.87	23.00
		50	0	21.00	21.29	21.15	22.00
		50	25	21.06	21.32	21.11	22.00
		50	50	20.89	21.15	20.89	22.00
		100	0	20.96	21.12	20.87	22.00

LTE Band 26 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26697	26865	27033	
1.4MHz	QPSK	1	0	23.34	23.39	23.39	24.00
		1	2	23.27	23.25	23.28	24.00
		1	5	23.28	23.30	23.36	24.00
		3	0	23.33	23.40	23.34	24.00
		3	2	23.31	23.22	23.25	24.00
		3	3	23.31	23.31	23.29	24.00
		6	0	22.45	22.41	22.43	23.00
	16QAM	1	0	22.42	22.35	22.37	23.00
		1	2	22.34	22.33	22.34	23.00
		1	5	22.25	22.28	22.32	23.00
		3	0	22.43	22.47	22.46	23.00
		3	2	22.28	22.29	22.24	23.00
		3	3	22.37	22.33	22.33	23.00
		6	0	21.31	21.27	21.23	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26705	26865	27025	
3MHz	QPSK	1	0	23.31	23.41	23.36	24.00



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		1	7	23.28	23.27	23.27	24.00
		1	14	23.28	23.35	23.33	24.00
		8	0	22.40	22.45	22.47	23.00
		8	4	22.29	22.24	22.28	23.00
		8	7	22.33	22.29	22.35	23.00
		15	0	22.42	22.39	22.45	23.00
	16QAM	1	0	22.38	22.34	22.40	23.00
		1	7	22.29	22.27	22.25	23.00
		1	14	22.34	22.25	22.33	23.00
		8	0	21.30	21.28	21.27	22.00
		8	4	21.31	21.28	21.27	22.00
		8	7	21.35	21.36	21.33	22.00
		15	0	21.27	21.29	21.28	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26715	26865	27015	
5MHz	QPSK	1	0	23.34	23.32	23.37	24.00
		1	13	23.29	23.23	23.31	24.00
		1	24	23.28	23.26	23.28	24.00
		12	0	22.42	22.48	22.42	23.00
		12	6	22.29	22.20	22.19	23.00
		12	13	22.35	22.29	22.32	23.00
		25	0	22.39	22.39	22.40	23.00
	16QAM	1	0	22.40	22.42	22.39	23.00
		1	13	22.30	22.32	22.35	23.00
		1	24	22.29	22.30	22.27	23.00
		12	0	21.35	21.28	21.32	22.00
		12	6	21.27	21.35	21.37	22.00
		12	13	21.31	21.35	21.38	22.00
		25	0	21.28	21.31	21.27	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26740	26865	26990	
10MHz	QPSK	1	0	23.30	23.37	23.38	24.00
		1	25	23.30	23.25	23.30	24.00
		1	49	23.33	23.36	23.36	24.00
		25	0	22.45	22.38	22.42	23.00
		25	13	22.27	22.25	22.29	23.00
		25	25	22.28	22.32	22.28	23.00
		50	0	22.44	22.43	22.45	23.00
	16QAM	1	0	22.39	22.37	22.33	23.00
		1	25	22.32	22.31	22.28	23.00
		1	49	22.32	22.33	22.33	23.00
		25	0	21.35	21.26	21.34	22.00
		25	13	21.34	21.28	21.29	22.00
		25	25	21.33	21.39	21.31	22.00
		50	0	21.25	21.23	21.30	22.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	26865	/	
15MHz	QPSK	1	0	/	23.51	/	24.00
		1	38	/	23.42	/	24.00
		1	74	/	23.47	/	24.00
		36	0	/	22.58	/	23.00
		36	18	/	22.40	/	23.00
		36	39	/	22.49	/	23.00
		75	0	/	22.56	/	23.00
	16QAM	1	0	/	22.52	/	23.00
		1	38	/	22.46	/	23.00
		1	74	/	22.46	/	23.00
		36	0	/	21.46	/	22.00
		36	18	/	21.47	/	22.00
		36	39	/	21.51	/	22.00
		75	0	/	21.43	/	22.00

LTE FDD Band 30 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	27710	/	
5MHz	QPSK	1	0	/	22.25	/	24.00
		1	13	/	22.07	/	24.00
		1	24	/	22.08	/	24.00
		12	0	/	21.26	/	23.00
		12	6	/	21.01	/	23.00
		12	13	/	21.08	/	23.00
		25	0	/	21.24	/	23.00
	16QAM	1	0	/	21.21	/	23.00
		1	13	/	21.02	/	23.00
		1	24	/	21.04	/	23.00
		12	0	/	20.17	/	22.00
		12	6	/	20.01	/	22.00
		12	13	/	20.01	/	22.00
		25	0	/	20.16	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	27710	/	
10MHz	QPSK	1	0	/	22.36	/	24.00
		1	25	/	22.17	/	24.00
		1	49	/	22.21	/	24.00
		25	0	/	21.37	/	23.00
		25	13	/	21.14	/	23.00
		25	25	/	21.23	/	23.00
		50	0	/	21.37	/	23.00
	16QAM	1	0	/	21.35	/	23.00



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		1	25	/	21.21	/	23.00
		1	49	/	21.20	/	23.00
		25	0	/	20.35	/	22.00
		25	13	/	20.16	/	22.00
		25	25	/	20.21	/	22.00
		50	0	/	20.29	/	22.00

LTE Band 38 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37775	38000	38225	
5MHz	QPSK	1	0	22.99	22.97	22.92	24.00
		1	13	22.68	22.76	22.69	24.00
		1	24	22.78	22.71	22.78	24.00
		12	0	21.93	21.90	21.91	23.00
		12	6	21.81	21.72	21.76	23.00
		12	13	21.79	21.76	21.76	23.00
		25	0	21.91	21.96	21.95	23.00
	16QAM	1	0	22.02	21.99	22.04	23.00
		1	13	21.67	21.65	21.71	23.00
		1	24	21.73	21.75	21.75	23.00
		12	0	21.03	20.97	20.98	22.00
		12	6	21.04	21.00	20.98	22.00
		12	13	20.78	20.74	20.74	22.00
		25	0	20.75	20.69	20.73	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	22.94	22.96	23.00	24.00
		1	25	22.74	22.68	22.74	24.00
		1	49	22.76	22.71	22.73	24.00
		25	0	21.98	21.90	21.93	23.00
		25	13	21.75	21.75	21.79	23.00
		25	25	21.72	21.72	21.73	23.00
		50	0	21.98	21.99	22.01	23.00
	16QAM	1	0	22.04	21.97	21.97	23.00
		1	25	21.71	21.67	21.69	23.00
		1	49	21.69	21.75	21.67	23.00
		25	0	21.02	20.95	20.99	22.00
		25	13	20.96	20.96	21.04	22.00
		25	25	20.80	20.72	20.71	22.00
		50	0	20.68	20.68	20.75	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	22.96	22.96	22.95	24.00
		1	38	22.71	22.68	22.68	24.00



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		1	74	22.77	22.73	22.77	24.00
		36	0	21.93	21.92	21.93	23.00
		36	18	21.76	21.74	21.74	23.00
		36	39	21.74	21.79	21.80	23.00
		75	0	21.91	22.00	21.93	23.00
	16QAM	1	0	21.99	21.96	21.95	23.00
		1	38	21.71	21.67	21.74	23.00
		1	74	21.71	21.72	21.75	23.00
		36	0	20.96	21.00	21.01	22.00
		36	18	21.02	21.02	20.98	22.00
		36	39	20.81	20.80	20.76	22.00
		75	0	20.79	20.69	20.78	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	38000	/	
20MHz	QPSK	1	0	/	23.13	/	24.00
		1	50	/	22.89	/	24.00
		1	99	/	22.92	/	24.00
		50	0	/	22.19	/	23.00
		50	25	/	21.93	/	23.00
		50	50	/	21.93	/	23.00
		100	0	/	22.12	/	23.00
	16QAM	1	0	/	22.10	/	23.00
		1	50	/	21.85	/	23.00
		1	99	/	21.87	/	23.00
		50	0	/	21.14	/	22.00
		50	25	/	21.17	/	22.00
		50	50	/	20.93	/	22.00
		100	0	/	20.90	/	22.00

LTE Band 40 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				38675	39150	39625	
5MHz	QPSK	1	0	23.01	23.33	23.20	24.00
		1	13	22.97	23.21	23.18	24.00
		1	24	23.00	23.24	23.18	24.00
		12	0	21.99	22.36	22.15	23.00
		12	6	22.02	22.20	22.19	23.00
		12	13	22.02	22.23	22.24	23.00
		25	0	22.00	22.31	22.13	23.00
	16QAM	1	0	22.09	22.26	22.26	23.00
		1	13	22.03	22.18	22.19	23.00
		1	24	22.10	22.23	22.23	23.00
		12	0	20.98	21.36	21.16	22.00
		12	6	21.00	21.20	21.15	22.00



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		12	13	21.00	21.31	21.20	22.00
		25	0	20.98	21.26	21.16	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				38700	39150	39600	
10MHz	QPSK	1	0	23.06	23.28	23.20	24.00
		1	25	22.95	23.22	23.11	24.00
		1	49	23.06	23.29	23.18	24.00
		25	0	21.97	22.43	22.13	23.00
		25	13	22.00	22.18	22.18	23.00
		25	25	22.04	22.31	22.22	23.00
		50	0	22.05	22.26	22.13	23.00
	16QAM	1	0	22.07	22.34	22.27	23.00
		1	25	22.03	22.19	22.23	23.00
		1	49	22.12	22.31	22.17	23.00
		25	0	21.02	21.38	21.13	22.00
		25	13	21.03	21.19	21.15	22.00
		25	25	20.98	21.33	21.22	22.00
		50	0	21.03	21.27	21.19	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				38725	39150	39575	
15MHz	QPSK	1	0	23.06	23.36	23.24	24.00
		1	38	23.02	23.26	23.08	24.00
		1	74	23.06	23.32	23.18	24.00
		36	0	21.97	22.34	22.17	23.00
		36	18	22.05	22.20	22.19	23.00
		36	39	21.99	22.23	22.27	23.00
		75	0	22.09	22.24	22.13	23.00
	16QAM	1	0	22.08	22.26	22.21	23.00
		1	38	22.03	22.22	22.21	23.00
		1	74	22.05	22.25	22.14	23.00
		36	0	21.03	21.38	21.15	22.00
		36	18	21.00	21.22	21.13	22.00
		36	39	21.06	21.29	21.17	22.00
		75	0	21.05	21.28	21.23	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				38750	39150	39550	
20MHz	QPSK	1	0	23.21	23.49	23.35	24.00
		1	50	23.16	23.37	23.29	24.00
		1	99	23.19	23.45	23.34	24.00
		50	0	22.17	22.54	22.34	23.00
		50	25	22.20	22.36	22.33	23.00
		50	50	22.17	22.42	22.39	23.00
		100	0	22.20	22.43	22.31	23.00
	16QAM	1	0	22.24	22.46	22.39	23.00
		1	50	22.18	22.35	22.33	23.00



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		1	99	22.23	22.43	22.35	23.00
		50	0	21.17	21.54	21.32	22.00
		50	25	21.16	21.37	21.25	22.00
		50	50	21.16	21.49	21.36	22.00
		100	0	21.17	21.41	21.35	22.00

LTE Band 41 Ant 4				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	22.87	22.84	23.01	22.94	22.98	24.00
		1	13	22.87	22.73	22.92	22.84	22.86	24.00
		1	24	22.78	22.82	22.94	22.9	22.85	24.00
		12	0	21.89	21.83	22.1	21.86	21.95	23.00
		12	6	21.8	21.71	22	21.8	21.86	23.00
		12	13	21.73	21.72	21.93	21.89	21.89	23.00
		25	0	21.84	21.71	22.02	21.85	21.78	23.00
	16QAM	1	0	21.82	21.75	21.94	21.85	21.78	23.00
		1	13	21.8	21.66	21.96	21.78	21.87	23.00
		1	24	21.88	21.79	21.95	21.86	21.86	23.00
		12	0	20.98	20.92	20.98	20.98	20.98	22.00
		12	6	20.83	20.7	21.02	20.79	20.84	22.00
		12	13	20.74	20.77	20.94	20.8	20.85	22.00
		25	0	20.72	20.69	20.87	20.82	20.89	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39700	40160	40620	41080	41540	
10MHz	QPSK	1	0	22.97	22.79	23.08	22.91	22.97	24.00
		1	25	22.8	22.7	22.93	22.87	22.8	24.00
		1	49	22.75	22.78	22.95	22.85	22.8	24.00
		25	0	21.91	21.75	22.15	21.87	22.02	23.00
		25	13	21.9	21.68	21.98	21.79	21.9	23.00
		25	25	21.74	21.72	21.92	21.86	21.9	23.00
		50	0	21.83	21.75	22	21.75	21.75	23.00
	16QAM	1	0	21.77	21.85	21.94	21.82	21.85	23.00
		1	25	21.78	21.72	21.96	21.81	21.87	23.00
		1	49	21.87	21.76	21.91	21.92	21.86	23.00
		25	0	20.94	20.92	21.04	20.92	20.97	22.00
		25	13	20.89	20.68	20.98	20.82	20.87	22.00
		25	25	20.75	20.76	20.97	20.88	20.82	22.00
		50	0	20.76	20.73	20.9	20.8	20.84	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	22.88	22.88	23.05	22.9	23.02	24.00
		1	38	22.87	22.71	23	22.84	22.78	24.00
		1	74	22.76	22.81	22.96	22.85	22.83	24.00



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		36	0	21.94	21.81	22.09	21.88	21.99	23.00
		36	18	21.86	21.78	21.95	21.87	21.83	23.00
		36	39	21.82	21.74	21.92	21.89	21.83	23.00
		75	0	21.84	21.65	21.98	21.84	21.81	23.00
	16QAM	1	0	21.82	21.83	21.98	21.86	21.76	23.00
		1	38	21.74	21.67	21.91	21.85	21.84	23.00
		1	74	21.79	21.82	21.94	21.84	21.89	23.00
		36	0	20.91	20.92	21.02	20.96	21.04	22.00
		36	18	20.81	20.69	20.96	20.74	20.86	22.00
		36	39	20.7	20.79	20.96	20.89	20.85	22.00
		75	0	20.76	20.71	20.92	20.83	20.94	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	23.09	23.01	23.22	23.11	23.15	24.00
		1	50	23	22.9	23.13	22.98	23	24.00
		1	99	22.96	22.93	23.08	23.02	22.99	24.00
		50	0	22.09	21.97	22.26	22.06	22.16	23.00
		50	25	22.02	21.9	22.14	21.99	22.02	23.00
		50	50	21.94	21.92	22.05	22.03	22.03	23.00
		100	0	21.95	21.87	22.19	21.96	21.95	23.00
	16QAM	1	0	21.95	21.96	22.13	22.02	21.97	23.00
		1	50	21.96	21.85	22.09	21.99	22.04	23.00
		1	99	22	21.94	22.11	22.05	22.03	23.00
		50	0	21.1	21.04	21.2	21.11	21.17	22.00
		50	25	21.01	20.87	21.13	20.96	20.99	22.00
		50	50	20.91	20.96	21.13	21.02	20.98	22.00
		100	0	20.93	20.91	21.08	21.02	21.05	22.00

LTE Band 66 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	22.93	23.11	22.96	24.00
		1	2	22.86	22.87	22.75	24.00
		1	5	22.79	23.02	22.81	24.00
		3	0	22.91	23.06	23.00	24.00
		3	1	22.79	22.88	22.80	24.00
		3	3	22.86	23.06	22.79	24.00
		6	0	21.95	22.07	21.98	23.00
	16QAM	1	0	21.93	22.02	22.02	23.00
		1	2	21.75	21.95	21.86	23.00
		1	5	21.79	21.98	21.86	23.00
		3	0	21.91	22.13	21.94	23.00
		3	1	21.84	21.90	21.82	23.00
		3	3	21.78	22.00	21.80	23.00



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		6	0	20.92	21.04	20.73	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131987	132322	132657	
3MHz	QPSK	1	0	22.91	23.13	22.96	24.00
		1	7	22.84	22.87	22.77	24.00
		1	14	22.76	22.98	22.81	24.00
		8	0	21.96	22.04	22.02	23.00
		8	4	21.80	21.93	21.86	23.00
		8	7	21.82	22.01	21.77	23.00
		15	0	21.91	22.04	21.97	23.00
	16QAM	1	0	21.99	22.02	22.08	23.00
		1	7	21.75	21.88	21.89	23.00
		1	14	21.76	21.96	21.90	23.00
		8	0	20.98	21.10	20.95	22.00
		8	4	20.85	20.76	20.77	22.00
		8	7	20.81	20.97	20.79	22.00
		15	0	20.87	21.00	20.75	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131997	132322	132647	
5MHz	QPSK	1	0	22.94	23.07	22.94	24.00
		1	13	22.84	22.93	22.79	24.00
		1	24	22.82	23.04	22.80	24.00
		12	0	21.98	22.06	22.02	23.00
		12	6	21.85	21.89	21.85	23.00
		12	13	21.81	22.04	21.80	23.00
		25	0	21.88	22.03	22.03	23.00
	16QAM	1	0	21.99	22.05	22.00	23.00
		1	13	21.75	21.95	21.90	23.00
		1	24	21.76	21.94	21.84	23.00
		12	0	20.99	21.10	20.98	22.00
		12	6	20.77	20.81	20.81	22.00
		12	13	20.72	21.02	20.82	22.00
		25	0	20.93	20.97	20.83	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132022	132322	132622	
10MHz	QPSK	1	0	22.90	23.05	22.92	24.00
		1	25	22.83	22.90	22.82	24.00
		1	49	22.78	23.03	22.83	24.00
		25	0	21.99	22.12	21.95	23.00
		25	13	21.81	21.95	21.82	23.00
		25	25	21.77	21.96	21.75	23.00
		50	0	21.93	22.10	21.98	23.00
	16QAM	1	0	21.99	21.97	22.03	23.00
		1	25	21.71	21.91	21.92	23.00
		1	49	21.72	21.91	21.91	23.00



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		25	0	20.97	21.02	21.01	22.00
		25	13	20.86	20.77	20.83	22.00
		25	25	20.81	20.94	20.81	22.00
		50	0	20.86	21.05	20.79	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	QPSK	1	0	22.95	23.08	22.94	24.00
		1	38	22.85	22.86	22.76	24.00
		1	74	22.76	23.06	22.77	24.00
		36	0	21.93	22.09	22.03	23.00
		36	18	21.76	21.89	21.77	23.00
		36	39	21.81	21.99	21.81	23.00
		75	0	21.87	22.03	21.97	23.00
	16QAM	1	0	21.94	21.98	22.03	23.00
		1	38	21.79	21.89	21.88	23.00
		1	74	21.74	21.89	21.85	23.00
		36	0	21.00	21.06	20.97	22.00
		36	18	20.80	20.83	20.80	22.00
		36	39	20.78	20.93	20.84	22.00
		75	0	20.93	20.98	20.80	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132072	132322	132572	
20MHz	QPSK	1	0	23.16	23.35	23.21	24.00
		1	50	23.08	23.14	23.05	24.00
		1	99	23.06	23.26	23.07	24.00
		50	0	22.20	22.34	22.24	23.00
		50	25	22.05	22.19	22.08	23.00
		50	50	22.07	22.24	22.03	23.00
		100	0	22.15	22.30	22.24	23.00
	16QAM	1	0	22.23	22.27	22.30	23.00
		1	50	22.00	22.16	22.14	23.00
		1	99	22.03	22.20	22.12	23.00
		50	0	21.25	21.33	21.25	22.00
		50	25	21.06	21.05	21.05	22.00
		50	50	21.02	21.24	21.10	22.00
		100	0	21.14	21.26	21.03	22.00

LTE Band 71 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				133147	133297	133447	
5MHz	QPSK	1	0	22.73	22.79	22.78	24.00
		1	13	22.63	22.66	22.55	24.00
		1	24	22.73	22.74	22.69	24.00
		12	0	21.90	21.96	21.90	23.00



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		12	6	21.74	21.81	21.72	23.00
		12	13	21.70	21.61	21.64	23.00
		25	0	21.68	21.76	21.65	23.00
	16QAM	1	0	21.63	21.74	21.82	23.00
		1	13	21.75	21.70	21.67	23.00
		1	24	21.72	21.73	21.75	23.00
		12	0	21.08	20.98	20.87	22.00
		12	6	20.59	20.58	20.60	22.00
		12	13	20.82	20.85	20.83	22.00
		25	0	20.56	20.69	20.62	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				133172	133297	133422	
10MHz	QPSK	1	0	22.72	22.74	22.78	24.00
		1	25	22.61	22.69	22.51	24.00
		1	49	22.77	22.69	22.62	24.00
		25	0	21.95	21.95	21.90	23.00
		25	13	21.73	21.89	21.77	23.00
		25	25	21.65	21.61	21.67	23.00
		50	0	21.62	21.78	21.68	23.00
	16QAM	1	0	21.62	21.79	21.77	23.00
		1	25	21.80	21.75	21.59	23.00
		1	49	21.75	21.65	21.73	23.00
		25	0	20.99	20.99	20.82	22.00
		25	13	20.54	20.60	20.61	22.00
		25	25	20.86	20.86	20.85	22.00
		50	0	20.60	20.68	20.58	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	133297	/	
15MHz	QPSK	1	0	/	23.06	/	24.00
		1	38	/	22.88	/	24.00
		1	74	/	23.01	/	24.00
		36	0	/	22.20	/	23.00
		36	18	/	21.98	/	23.00
		36	39	/	21.89	/	23.00
		75	0	/	22.08	/	23.00
	16QAM	1	0	/	22.06	/	23.00
		1	38	/	21.97	/	23.00
		1	74	/	21.95	/	23.00
		36	0	/	21.09	/	22.00
		36	18	/	20.84	/	22.00
		36	39	/	21.01	/	22.00
		75	0	/	20.90	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	133322	/	
20MHz	QPSK	1	0	/	23.31	/	24.00



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		1	50	/	23.14	/	24.00
		1	99	/	23.24	/	24.00
		50	0	/	22.43	/	23.00
		50	25	/	22.17	/	23.00
		50	50	/	22.17	/	23.00
		100	0	/	22.37	/	23.00
	16QAM	1	0	/	22.31	/	23.00
		1	50	/	22.22	/	23.00
		1	99	/	22.21	/	23.00
		50	0	/	21.35	/	22.00
		50	25	/	21.09	/	22.00
		50	50	/	21.20	/	22.00
		100	0	/	21.17	/	22.00



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1. Conducted Power of WIFI2.4G

WIFI 2.4G Ant Ant 2					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	17.59	19.00
	6	2437		17.66	19.00
	11	2462		17.51	19.00
802.11g	1	2412	6	17.30	18.50
	6	2437		17.37	18.50
	11	2462		17.33	18.50
802.11n HT20	1	2412	6.5	17.29	18.50
	6	2437		17.41	18.50
	11	2462		17.23	18.50
802.11n HT40	3	2422	13.5	17.01	18.50
	6	2437		17.16	18.50
	9	2452		17.09	18.50



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2. Conducted Power of WIFI5G

WIFI 5G Ant 1					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	17.57	19.00
		40	5200	17.80	19.00
		48	5240	17.67	19.00
	802.11n HT20	36	5180	17.16	18.50
		40	5200	17.36	18.50
		48	5240	17.11	18.50
	802.11n HT40	38	5190	17.30	18.50
		46	5230	17.35	18.50
	802.11ac VHT20	36	5180	17.11	18.50
		40	5200	17.37	18.50
		48	5240	17.18	18.50
	802.11ac VHT40	38	5190	18.59	20.00
		46	5230	18.86	20.00
	802.11ac VHT80	42	5210	17.37	18.50
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-2A	802.11a	52	5260	19.21	20.50
		60	5300	19.30	20.50
		64	5320	19.06	20.50
	802.11n HT20	52	5260	18.86	20.00
		60	5300	18.97	20.00
		64	5320	18.80	20.00
	802.11n HT40	54	5270	18.99	20.00
		62	5310	18.92	20.00
	802.11ac VHT20	52	5260	18.96	20.00
		60	5300	18.99	20.00
		64	5320	18.90	20.00
	802.11ac VHT40	54	5270	18.97	20.00
		62	5310	18.97	20.00
	802.11ac VHT80	58	5290	18.99	20.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	19.06	20.50
		116	5580	19.29	20.50
		140	5700	19.16	20.50
	802.11n HT20	100	5500	18.78	20.00
		116	5580	18.83	20.00
		140	5700	18.96	20.00
	802.11n HT40	102	5510	18.78	20.00
		110	5550	18.91	20.00



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		134	5670	18.86	20.00
	802.11ac VHT20	100	5500	18.71	20.00
		116	5580	18.89	20.00
		140	5700	18.82	20.00
	802.11ac VHT40	102	5510	18.90	20.00
		110	5550	18.94	20.00
		134	5670	18.87	20.00
	802.11ac VHT80	106	5530	19.00	20.00
		122	5610	18.77	20.00
		138	5690	18.85	20.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	19.17	20.50
		157	5785	19.38	20.50
		165	5825	19.21	20.50
	802.11n HT20	149	5745	18.93	20.00
		157	5785	18.99	20.00
		165	5825	18.91	20.00
	802.11n HT40	151	5755	18.63	20.00
		159	5795	18.52	20.00
	802.11ac VHT20	149	5745	18.84	20.00
		157	5785	18.96	20.00
		165	5825	18.67	20.00
	802.11ac VHT40	151	5755	18.65	20.00
		159	5795	18.52	20.00
	802.11ac VHT80	155	5775	18.62	20.00



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1. Conducted Power of Bluetooth

BT Ant 2		Average Conducted Power(dBm)			Tune up
Band	Channel	0	39	78	
BT	GFSK	8.03	8.34	8.19	9.50
	$\pi/4$ DQPSK	7.71	7.79	7.45	8.50
	8DPSK	7.80	7.32	7.80	8.50
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	5.74	6.49	6.41	7.50
BLE 2M	GFSK	5.03	5.36	5.44	6.50

- End of the Appendix -