

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01-A05 Rev. A/0 Aug 16,2024

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90MHz	DFT-s-OFDM QPSK	1	1	16.29	16.41	16.07	16.27	16.02	16.12	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	16.41	16.34	16.24	16.18	16.25	16.33	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649001	651800	654601	657401	660200	662999	
70MHz	DFT-s-OFDM QPSK	1	1	16.34	16.29	16.09	16.28	16.28	16.23	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
60MHz	DFT-s-OFDM QPSK	1	1	16.12	16.38	16.07	16.10	16.28	16.19	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648334	651400	654468	657534	660600	663666	
50MHz	DFT-s-OFDM QPSK	1	1	16.25	16.38	16.28	16.14	16.28	16.18	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	
40MHz	DFT-s-OFDM QPSK	1	1	16.13	16.53	16.05	16.25	16.29	16.23	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654332	657666	661000	664334	
30MHz	DFT-s-OFDM QPSK	1	1	16.16	16.29	16.20	16.16	16.27	16.13	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647332	650800	654264	657732	661200	664668	
20MHz	DFT-s-OFDM QPSK	1	1	16.17	16.36	16.35	16.34	16.13	16.15	17.70

N77 State 10					Conducted Power(dBm)					
SCS 30kHz(3700~3980)										
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
				3750.00	3786.00	3822.00	3858.00	3894.00	3930.00	
100MHz	DFT-s-OFDM QPSK	1	1	15.90	15.88	15.77	15.97	15.64	15.66	17.20
		1	137	15.54	15.48	15.39	15.33	15.39	15.61	17.20
		1	271	15.57	15.54	15.35	15.65	15.54	15.65	17.20



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		135	0	14.57	14.62	14.82	14.65	14.82	14.68	16.20
		135	69	15.54	15.63	15.55	15.76	15.69	15.77	17.20
		135	138	14.42	14.53	14.49	14.45	14.61	14.44	16.20
		270	0	14.75	14.65	14.61	14.59	14.61	14.47	16.20
	DFT-s-OFDM 16QAM	1	1	14.81	14.59	14.80	14.92	14.56	14.90	16.20
	DFT-s-OFDM 64QAM	1	1	13.41	13.48	13.53	13.59	13.74	13.81	14.70
	DFT-s-OFDM 256QAM	1	1	11.09	11.07	11.15	11.27	11.16	11.08	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	650000	652400	654800	657200	659600	662000	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	649668	652200	654734	657268	659800	662332	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	649334	652000	654668	657334	660000	662666	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	649001	651800	654601	657401	660200	662999	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	648668	651600	654534	657468	660400	663332	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	648334	651400	654468	657534	660600	663666	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	648000	651200	654400	657600	660800	664000	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654332	657666	661000	664334	



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30MHz	DFT-s-OFDM QPSK	1	1	15.73	15.79	15.74	15.68	15.57	15.53	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647332	650800	654264	657732	661200	664668	
20MHz	DFT-s-OFDM QPSK	1	1	15.81	15.85	15.74	15.73	15.70	15.77	17.20

N78 PC2 State 3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500.01	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	18.56	/	19.70
		1	137	/	18.52	/	19.70
		1	271	/	18.46	/	19.70
		135	0	/	15.15	/	16.20
		135	69	/	18.46	/	19.70
		135	138	/	14.99	/	16.20
		270	0	/	17.49	/	18.70
	DFT-s-OFDM 16QAM	1	1	/	17.56	/	18.70
	DFT-s-OFDM 64QAM	1	1	/	16.26	/	17.20
	DFT-s-OFDM 256QAM	1	1	/	14.13	/	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	16.96	/	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	18.66	18.61	18.58	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	18.76	18.60	18.63	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	



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70MHz	DFT-s-OFDM QPSK	1	1	18.69	18.54	18.62	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	18.75	18.65	18.57	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	18.75	18.65	18.65	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	18.61	18.53	18.63	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	18.76	18.68	18.65	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	18.67	18.61	18.61	19.70

N78 PC2 State 5				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500.01	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	16.96	/	18.20
		1	137	/	16.89	/	18.20
		1	271	/	17.04	/	18.20
		135	0	/	13.65	/	14.70
		135	69	/	16.86	/	18.20
		135	138	/	13.41	/	14.70
		270	0	/	15.84	/	17.20
	DFT-s-OFDM 16QAM	1	1	/	16.12	/	17.20
	DFT-s-OFDM 64QAM	1	1	/	14.72	/	15.70



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	DFT-s-OFDM 256QAM	1	1	/	12.56	/	13.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	15.34	/	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	17.06	17.13	17.06	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	17.17	17.02	17.13	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	17.14	16.96	16.96	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	17.26	17.01	17.03	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	17.21	17.13	17.11	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	17.06	16.91	17.16	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	17.18	17.23	16.99	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	17.06	16.98	17.14	18.20

N78 PC2 State 8	Conducted Power(dBm)
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SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500.01	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	16.55	/	17.70
		1	137	/	16.49	/	17.70
		1	271	/	16.33	/	17.70
		135	0	/	13.19	/	14.20
		135	69	/	16.36	/	17.70
		135	138	/	13.03	/	14.20
		270	0	/	15.37	/	16.70
	DFT-s-OFDM 16QAM	1	1	/	15.50	/	16.70
	DFT-s-OFDM 64QAM	1	1	/	14.27	/	15.20
	DFT-s-OFDM 256QAM	1	1	/	12.19	/	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	14.91	/	16.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	16.66	16.48	16.45	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	16.80	16.58	16.67	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	16.59	16.41	16.51	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	16.61	16.55	16.55	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	



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50MHz	DFT-s-OFDM QPSK	1	1	16.63	16.62	16.54	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	16.46	16.59	16.65	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	16.74	16.65	16.73	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	16.54	16.66	16.65	17.70

N78 PC2 State 10				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500.01	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	16.11	/	17.20
		1	137	/	15.93	/	17.20
		1	271	/	15.99	/	17.20
		135	0	/	12.71	/	13.70
		135	69	/	15.97	/	17.20
		135	138	/	12.42	/	13.70
		270	0	/	14.89	/	16.20
	DFT-s-OFDM 16QAM	1	1	/	15.05	/	16.20
	DFT-s-OFDM 64QAM	1	1	/	13.72	/	14.70
	DFT-s-OFDM 256QAM	1	1	/	11.48	/	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	14.43	/	15.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	



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90MHz	DFT-s-OFDM QPSK	1	1	16.20	16.01	15.97	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	16.33	16.05	16.00	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	16.20	15.88	16.14	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	16.31	16.09	16.12	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	16.15	16.10	16.12	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	16.15	16.05	16.15	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	16.25	16.25	16.20	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	16.16	16.02	16.02	17.20

N78 PC2 State 3				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	18.22	/	19.70
		1	137	/	18.24	/	19.70
		1	271	/	18.26	/	19.70



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		135	0	/	14.88	/	16.20
		135	69	/	18.16	/	19.70
		135	138	/	14.78	/	16.20
		270	0	/	17.11	/	18.70
	DFT-s-OFDM 16QAM	1	1	/	17.24	/	18.70
	DFT-s-OFDM 64QAM	1	1	/	16.01	/	17.20
	DFT-s-OFDM 256QAM	1	1	/	13.76	/	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	16.76	/	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	18.33	18.35	18.27	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	18.51	18.29	18.30	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	18.39	18.18	18.27	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	18.33	18.22	18.29	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	18.41	18.26	18.37	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	18.36	18.14	18.27	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	



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30MHz	DFT-s-OFDM QPSK	1	1	18.52	18.35	18.32	19.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	18.36	18.41	18.32	19.70

N78 PC2 State 5				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	16.67	/	18.20
		1	137	/	16.69	/	18.20
		1	271	/	16.74	/	18.20
		135	0	/	13.36	/	14.70
		135	69	/	16.75	/	18.20
		135	138	/	13.30	/	14.70
		270	0	/	15.56	/	17.20
	DFT-s-OFDM 16QAM	1	1	/	15.76	/	17.20
	DFT-s-OFDM 64QAM	1	1	/	14.36	/	15.70
	DFT-s-OFDM 256QAM	1	1	/	12.28	/	13.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	15.28	/	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	16.73	16.85	16.75	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	16.93	16.76	16.77	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	



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70MHz	DFT-s-OFDM QPSK	1	1	16.80	16.64	16.72	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	16.72	16.78	16.68	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	16.90	16.76	16.78	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	16.94	16.62	16.69	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	16.87	16.84	16.88	18.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	16.72	16.81	16.87	18.20

N78 PC2 State 8				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	16.18	/	17.70
		1	137	/	16.25	/	17.70
		1	271	/	16.28	/	17.70
		135	0	/	12.89	/	14.20
		135	69	/	16.17	/	17.70
		135	138	/	12.65	/	14.20
		270	0	/	15.01	/	16.70
	DFT-s-OFDM 16QAM	1	1	/	15.32	/	16.70
	DFT-s-OFDM 64QAM	1	1	/	13.84	/	15.20



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	DFT-s-OFDM 256QAM	1	1	/	11.72	/	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	14.65	/	16.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	16.33	16.37	16.28	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	16.53	16.19	16.27	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	16.35	16.09	16.19	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	16.22	16.11	16.30	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	16.25	16.18	16.34	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	16.40	16.05	16.16	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	16.48	16.31	16.18	17.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	16.23	16.36	16.35	17.70

N78 PC2 State 10	Conducted Power(dBm)
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SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	15.75	/	17.20
		1	137	/	15.74	/	17.20
		1	271	/	15.63	/	17.20
		135	0	/	12.33	/	13.70
		135	69	/	15.56	/	17.20
		135	138	/	12.32	/	13.70
		270	0	/	14.63	/	16.20
	DFT-s-OFDM 16QAM	1	1	/	14.63	/	16.20
	DFT-s-OFDM 64QAM	1	1	/	13.41	/	14.70
	DFT-s-OFDM 256QAM	1	1	/	11.09	/	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	14.16	/	15.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	15.78	15.78	15.78	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	15.90	15.68	15.83	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	15.87	15.61	15.69	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	15.78	15.70	15.85	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	



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50MHz	DFT-s-OFDM QPSK	1	1	15.90	15.74	15.82	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	15.72	15.61	15.78	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	15.84	15.75	15.87	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	15.80	15.85	15.69	17.20

N78 PC3 State 3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500.01	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	15.79	/	16.70
		1	137	/	15.90	/	16.70
		1	271	/	15.86	/	16.70
		135	0	/	14.87	/	15.70
		135	69	/	15.75	/	16.70
		135	138	/	14.75	/	15.70
		270	0	/	14.88	/	15.70
	DFT-s-OFDM 16QAM	1	1	/	14.92	/	15.70
	DFT-s-OFDM 64QAM	1	1	/	13.55	/	14.20
	DFT-s-OFDM 256QAM	1	1	/	11.24	/	12.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	14.19	/	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	



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		135	0	/	13.29	/	14.20
		135	69	/	14.09	/	15.20
		135	138	/	13.25	/	14.20
		270	0	/	13.24	/	14.20
	DFT-s-OFDM 16QAM	1	1	/	13.36	/	14.20
	DFT-s-OFDM 64QAM	1	1	/	11.99	/	12.70
	DFT-s-OFDM 256QAM	1	1	/	9.63	/	10.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	12.58	/	13.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	14.31	14.42	14.14	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	14.45	14.52	14.30	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	14.26	14.15	14.36	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	14.42	14.34	14.19	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	14.41	14.21	14.22	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	14.40	14.38	14.38	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	



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30MHz	DFT-s-OFDM QPSK	1	1	14.45	14.09	14.48	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	14.27	14.43	14.36	15.20

N78 PC3 State 8				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500.01	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	13.71	/	14.70
		1	137	/	13.67	/	14.70
		1	271	/	13.76	/	14.70
		135	0	/	12.78	/	13.70
		135	69	/	13.56	/	14.70
		135	138	/	12.55	/	13.70
		270	0	/	12.72	/	13.70
	DFT-s-OFDM 16QAM	1	1	/	12.81	/	13.70
	DFT-s-OFDM 64QAM	1	1	/	11.52	/	12.20
	DFT-s-OFDM 256QAM	1	1	/	9.22	/	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	12.06	/	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	13.83	13.74	13.65	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	13.97	14.05	13.77	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	



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70MHz	DFT-s-OFDM QPSK	1	1	13.77	13.80	13.87	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	13.81	13.82	13.84	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	13.91	13.86	13.73	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	13.77	13.87	13.71	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	13.88	13.71	13.98	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	13.73	13.97	13.87	14.70

N78 PC3 State 10				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500.01	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	13.16	/	14.20
		1	137	/	13.35	/	14.20
		1	271	/	13.22	/	14.20
		135	0	/	12.18	/	13.20
		135	69	/	13.16	/	14.20
		135	138	/	12.09	/	13.20
		270	0	/	12.34	/	13.20
	DFT-s-OFDM 16QAM	1	1	/	12.30	/	13.20
	DFT-s-OFDM 64QAM	1	1	/	11.01	/	11.70



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	DFT-s-OFDM 256QAM	1	1	/	8.76	/	9.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	11.67	/	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	13.21	13.22	13.30	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	13.57	13.44	13.29	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	13.28	13.15	13.26	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	13.56	13.26	13.40	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	13.35	13.42	13.15	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	13.37	13.44	13.18	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	13.26	13.10	13.31	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	13.20	13.50	13.38	14.20

N78 PC3 State 3	Conducted Power(dBm)
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SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	15.55	/	16.70
		1	137	/	15.66	/	16.70
		1	271	/	15.57	/	16.70
		135	0	/	14.56	/	15.70
		135	69	/	15.51	/	16.70
		135	138	/	14.53	/	15.70
		270	0	/	14.53	/	15.70
	DFT-s-OFDM 16QAM	1	1	/	14.69	/	15.70
	DFT-s-OFDM 64QAM	1	1	/	13.33	/	14.20
	DFT-s-OFDM 256QAM	1	1	/	10.88	/	12.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	13.98	/	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	15.66	15.61	15.57	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	15.73	15.69	15.53	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	15.66	15.57	15.64	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	15.73	15.64	15.59	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	



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50MHz	DFT-s-OFDM QPSK	1	1	15.71	15.54	15.50	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	15.72	15.67	15.51	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	15.57	15.51	15.61	16.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	15.65	15.70	15.61	16.70

N78 PC3 State 5				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	14.03	/	15.20
		1	137	/	14.15	/	15.20
		1	271	/	13.94	/	15.20
		135	0	/	12.97	/	14.20
		135	69	/	13.93	/	15.20
		135	138	/	12.92	/	14.20
		270	0	/	12.95	/	14.20
	DFT-s-OFDM 16QAM	1	1	/	13.24	/	14.20
	DFT-s-OFDM 64QAM	1	1	/	11.74	/	12.70
	DFT-s-OFDM 256QAM	1	1	/	9.35	/	10.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	12.55	/	13.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	



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90MHz	DFT-s-OFDM QPSK	1	1	14.06	14.07	14.03	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	14.16	14.14	13.89	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	14.09	14.06	13.99	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	14.14	14.14	14.14	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	14.22	14.07	14.03	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	14.22	14.09	14.00	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	14.00	13.95	14.07	15.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	14.03	14.22	14.02	15.20

N78 PC3 State 8				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	13.40	/	14.70
		1	137	/	13.60	/	14.70
		1	271	/	13.60	/	14.70



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		135	0	/	12.58	/	13.70
		135	69	/	13.51	/	14.70
		135	138	/	12.56	/	13.70
		270	0	/	12.43	/	13.70
	DFT-s-OFDM 16QAM	1	1	/	12.59	/	13.70
	DFT-s-OFDM 64QAM	1	1	/	11.20	/	12.20
	DFT-s-OFDM 256QAM	1	1	/	8.81	/	10.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	11.92	/	13.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	13.52	13.50	13.52	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	13.68	13.60	13.42	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	13.75	13.45	13.62	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	13.73	13.64	13.49	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	13.75	13.55	13.45	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	13.66	13.63	13.55	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	



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30MHz	DFT-s-OFDM QPSK	1	1	13.56	13.34	13.55	14.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	13.52	13.70	13.56	14.70



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N78 PC3 State 10				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM QPSK	1	1	/	12.99	/	14.20
		1	137	/	13.06	/	14.20
		1	271	/	12.90	/	14.20
		135	0	/	12.09	/	13.20
		135	69	/	12.99	/	14.20
		135	138	/	11.96	/	13.20
		270	0	/	11.95	/	13.20
	DFT-s-OFDM 16QAM	1	1	/	12.11	/	13.20
	DFT-s-OFDM 64QAM	1	1	/	10.68	/	11.70
	DFT-s-OFDM 256QAM	1	1	/	8.31	/	9.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	11.50	/	12.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	13.07	13.20	13.00	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	13.23	13.12	13.05	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	13.15	13.15	13.07	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	13.17	13.09	13.14	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	13.13	13.05	12.87	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	13.16	13.13	13.03	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	12.92	13.01	13.02	14.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	13.12	13.18	12.95	14.20



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9 Conducted Power of WIFI and Bluetooth

9.1 Conducted Power of 2.4G WIFI

2.4G WIFI Ant8 Receiver off Standalone					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	17.81	18.50
	2	2417		18.73	19.50
	6	2437		19.14	19.50
	11	2462		18.76	19.50
802.11g	1	2412	6	16.14	17.00
	6	2437		19.00	19.50
	11	2462		15.13	16.00
802.11n HT20	1	2412	6.5	15.03	16.00
	6	2437		18.83	19.50
	11	2462		16.42	17.50
802.11n HT40	3	2422	13.5	13.97	14.50
	6	2437		19.32	19.50
	9	2452		15.07	15.50
802.11ac VHT20	1	2412	MCS0	15.04	16.00
	6	2437		18.84	19.50
	11	2462		18.41	19.50
802.11ac VHT40	3	2422	MCS0	14.01	14.50
	6	2437		18.34	19.50
	9	2452		15.03	15.50



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2.4G WIFI Ant8 Receiver on Standalone					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	13.82	14.50
	2	2417		14.75	15.50
	6	2437		15.20	15.50
	11	2462		14.78	15.50
802.11g	1	2412	6	12.18	13.00
	6	2437		15.03	15.50
	11	2462		11.17	12.00
802.11n HT20	1	2412	6.5	11.08	12.00
	6	2437		14.85	15.50
	11	2462		12.45	13.50
802.11n HT40	3	2422	13.5	10.05	10.50
	6	2437		15.41	15.50
	9	2452		11.15	11.50
802.11ac VHT20	1	2412	MCS0	11.13	12.00
	6	2437		14.90	15.50
	11	2462		14.45	15.50
802.11ac VHT40	3	2422	MCS0	10.09	10.50
	6	2437		14.41	15.50
	9	2452		11.11	11.50



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2.4G WIFI Ant8 Receiver off Simultaneous transmission					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	15.37	16.00
	2	2417		16.24	17.00
	6	2437		16.67	17.00
	11	2462		16.30	17.00
802.11g	1	2412	6	13.66	14.50
	6	2437		16.54	17.00
	11	2462		12.69	13.50
802.11n HT20	1	2412	6.5	12.54	13.50
	6	2437		16.35	17.00
	11	2462		13.98	15.00
802.11n HT40	3	2422	13.5	11.49	12.00
	6	2437		16.91	17.00
	9	2452		12.58	13.00
802.11ac VHT20	1	2412	MCS0	12.61	13.50
	6	2437		16.43	17.00
	11	2462		15.93	17.00
802.11ac VHT40	3	2422	MCS0	11.58	12.00
	6	2437		15.89	17.00
	9	2452		12.61	13.00



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2.4G WIFI Ant8 Receiver on Simultaneous transmission					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	11.86	12.50
	2	2417		12.74	13.50
	6	2437		13.21	13.50
	11	2462		12.77	13.50
802.11g	1	2412	6	10.21	11.00
	6	2437		13.08	13.50
	11	2462		9.15	10.00
802.11n HT20	1	2412	6.5	9.05	10.00
	6	2437		12.89	13.50
	11	2462		10.50	11.50
802.11n HT40	3	2422	13.5	8.00	8.50
	6	2437		13.34	13.50
	9	2452		9.16	9.50
802.11ac VHT20	1	2412	MCS0	9.07	10.00
	6	2437		12.92	13.50
	11	2462		12.48	13.50
802.11ac VHT40	3	2422	MCS0	8.05	8.50
	6	2437		12.39	13.50
	9	2452		9.07	9.50



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9.2 Conducted Power of 5G WIFI

5G WIFI Ant8 Receiver off Standalone						
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up	
5GHz U-NII-1	802.11a	36	5180	17.52	19.00	
		40	5200	17.48	19.00	
		44	5220	17.55	19.00	
		48	5240	17.30	19.00	
	802.11n HT20	36	5180	17.44	19.00	
		40	5200	17.26	19.00	
		44	5220	17.45	19.00	
		48	5240	17.12	19.00	
	802.11n HT40	38	5190	17.09	19.00	
		46	5230	17.05	19.00	
	802.11ac VHT20	36	5180	17.44	19.00	
		40	5200	17.33	19.00	
		44	5220	17.16	19.00	
		48	5240	17.13	19.00	
	802.11ac VHT40	38	5190	17.13	19.00	
		46	5230	17.06	19.00	
	802.11ac VHT80	42	5210	15.95	17.50	
	5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
	5GHz U-NII-2A	802.11a	52	5260	17.21	19.00
			56	5280	17.46	19.00
60			5300	17.45	19.00	
64			5320	16.51	18.00	
802.11n HT20		52	5260	17.01	19.00	
		56	5280	17.08	19.00	
		60	5300	17.10	19.00	
		64	5320	16.11	18.00	
802.11n HT40		54	5270	17.06	19.00	
		62	5310	17.09	19.00	
802.11ac VHT20		52	5260	17.17	19.00	
		56	5280	17.11	19.00	
		60	5300	17.08	19.00	
		64	5320	16.07	18.00	
802.11ac VHT40		54	5270	17.12	19.00	
		62	5310	17.07	19.00	
802.11ac VHT80		58	5290	12.19	14.00	



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5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	17.70	19.00
		104	5520	17.66	19.00
		108	5540	17.75	19.00
		112	5560	17.78	19.00
		116	5580	18.08	19.00
		120	5600	18.18	19.00
		124	5620	18.15	19.00
		128	5640	18.09	19.00
		132	5660	18.14	19.00
		136	5680	18.20	19.00
		140	5700	18.25	19.00
	802.11n HT20	100	5500	15.91	17.50
		104	5520	17.78	19.00
		108	5540	17.85	19.00
		112	5560	17.89	19.00
		116	5580	17.88	19.00
		120	5600	17.85	19.00
		124	5620	17.92	19.00
		128	5640	17.95	19.00
		132	5660	18.05	19.00
		136	5680	18.04	19.00
		140	5700	18.14	19.00
	802.11n HT40	102	5510	16.28	18.00
		110	5550	17.09	19.00
		118	5590	17.15	19.00
		126	5630	17.14	19.00
		134	5670	17.19	19.00
	802.11ac VHT20	100	5500	15.91	17.50
		104	5520	17.95	19.00
		108	5540	17.88	19.00
		112	5560	17.87	19.00
		116	5580	17.90	19.00
		120	5600	17.95	19.00
		124	5620	17.94	19.00
		128	5640	17.99	19.00
		132	5660	18.05	19.00
		136	5680	18.04	19.00
		140	5700	18.14	19.00
	802.11ac VHT40	102	5510	15.95	17.50
		110	5550	17.23	19.00



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		118	5590	17.26	19.00
		126	5630	17.31	19.00
		134	5670	17.13	19.00
	802.11ac VHT80	106	5530	13.67	14.50
		122	5610	18.19	19.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	18.43	19.00
		153	5765	18.51	19.00
		157	5785	18.56	19.00
		161	5805	18.55	19.00
		165	5825	18.59	19.00
	802.11n HT20	149	5745	18.22	19.00
		153	5765	18.35	19.00
		157	5785	18.38	19.00
		161	5805	18.41	19.00
		165	5825	18.40	19.00
	802.11n HT40	151	5755	17.02	18.50
		159	5795	17.33	18.50
	802.11ac VHT20	149	5745	18.22	19.00
		153	5765	18.15	19.00
		157	5785	18.38	19.00
		161	5805	18.45	19.00
		165	5825	18.39	19.00
	802.11ac VHT40	151	5755	17.06	18.50
		159	5795	17.31	18.50
	802.11ac VHT80	155	5775	16.60	17.50



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5G WIFI Ant8 Receiver on Standalone&Receiver off 5G WIFI+BT						
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up	
5GHz U-NII-1	802.11a	36	5180	17.10	18.50	
		40	5200	17.04	18.50	
		44	5220	17.09	18.50	
		48	5240	16.82	18.50	
	802.11n HT20	36	5180	16.97	18.50	
		40	5200	16.78	18.50	
		44	5220	17.04	18.50	
		48	5240	16.71	18.50	
	802.11n HT40	38	5190	16.67	18.50	
		46	5230	16.60	18.50	
	802.11ac VHT20	36	5180	17.01	18.50	
		40	5200	16.85	18.50	
		44	5220	16.74	18.50	
		48	5240	16.67	18.50	
	802.11ac VHT40	38	5190	16.71	18.50	
		46	5230	16.57	18.50	
	802.11ac VHT80	42	5210	15.49	17.00	
	5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
	5GHz U-NII-2A	802.11a	52	5260	16.77	18.50
			56	5280	16.99	18.50
60			5300	16.97	18.50	
64			5320	16.03	17.50	
802.11n HT20		52	5260	16.53	18.50	
		56	5280	16.64	18.50	
		60	5300	16.69	18.50	
		64	5320	15.69	17.50	
802.11n HT40		54	5270	16.63	18.50	
		62	5310	16.69	18.50	
802.11ac VHT20		52	5260	16.70	18.50	
		56	5280	16.69	18.50	
		60	5300	16.64	18.50	
		64	5320	15.66	17.50	
802.11ac VHT40		54	5270	16.67	18.50	
		62	5310	16.61	18.50	
802.11ac VHT80		58	5290	11.75	13.50	



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5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	17.26	18.50
		104	5520	17.21	18.50
		108	5540	17.26	18.50
		112	5560	17.37	18.50
		116	5580	17.60	18.50
		120	5600	17.72	18.50
		124	5620	17.67	18.50
		128	5640	17.61	18.50
		132	5660	17.72	18.50
		136	5680	17.78	18.50
		140	5700	17.84	18.50
	802.11n HT20	100	5500	15.42	17.00
		104	5520	17.31	18.50
		108	5540	17.39	18.50
		112	5560	17.46	18.50
		116	5580	17.41	18.50
		120	5600	17.39	18.50
		124	5620	17.45	18.50
		128	5640	17.54	18.50
		132	5660	17.59	18.50
		136	5680	17.63	18.50
		140	5700	17.65	18.50
	802.11n HT40	102	5510	15.83	17.50
		110	5550	16.63	18.50
		118	5590	16.69	18.50
		126	5630	16.67	18.50
		134	5670	16.70	18.50
	802.11ac VHT20	100	5500	15.45	17.00
		104	5520	17.52	18.50
		108	5540	17.44	18.50
		112	5560	17.46	18.50
		116	5580	17.42	18.50
		120	5600	17.48	18.50
		124	5620	17.51	18.50
		128	5640	17.51	18.50
		132	5660	17.64	18.50
		136	5680	17.57	18.50
		140	5700	17.70	18.50
		102	5510	15.47	17.00



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	802.11ac VHT40	110	5550	16.74	18.50
		118	5590	16.80	18.50
		126	5630	16.83	18.50
		134	5670	16.69	18.50
	802.11ac VHT80	106	5530	13.18	14.00
		122	5610	17.72	18.50
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	17.95	18.50
		153	5765	18.07	18.50
		157	5785	18.12	18.50
		161	5805	18.06	18.50
		165	5825	18.14	18.50
	802.11n HT20	149	5745	17.73	18.50
		153	5765	17.91	18.50
		157	5785	17.93	18.50
		161	5805	17.98	18.50
		165	5825	17.98	18.50
	802.11n HT40	151	5755	16.57	18.00
		159	5795	16.90	18.00
	802.11ac VHT20	149	5745	17.75	18.50
		153	5765	17.70	18.50
		157	5785	17.96	18.50
		161	5805	17.98	18.50
		165	5825	17.94	18.50
	802.11ac VHT40	151	5755	16.60	18.00
		159	5795	16.88	18.00
	802.11ac VHT80	155	5775	16.12	17.00



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5G WIFI Ant8 Receiver on 5G WIFI+WWAN					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	14.58	16.00
		40	5200	14.53	16.00
		44	5220	14.61	16.00
		48	5240	14.36	16.00
	802.11n HT20	36	5180	14.45	16.00
		40	5200	14.34	16.00
		44	5220	14.53	16.00
		48	5240	14.21	16.00
	802.11n HT40	38	5190	14.16	16.00
		46	5230	14.11	16.00
	802.11ac VHT20	36	5180	14.46	16.00
		40	5200	14.37	16.00
		44	5220	14.25	16.00
		48	5240	14.21	16.00
	802.11ac VHT40	38	5190	14.17	16.00
		46	5230	14.14	16.00
	802.11ac VHT80	42	5210	12.96	14.50
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-2A	802.11a	52	5260	14.22	16.00
		56	5280	14.51	16.00
		60	5300	14.52	16.00
		64	5320	13.53	15.00
	802.11n HT20	52	5260	14.04	16.00
		56	5280	14.11	16.00
		60	5300	14.19	16.00
		64	5320	13.15	15.00
	802.11n HT40	54	5270	14.12	16.00
		62	5310	14.15	16.00
	802.11ac VHT20	52	5260	14.23	16.00
		56	5280	14.14	16.00
		60	5300	14.16	16.00
		64	5320	13.09	15.00
	802.11ac VHT40	54	5270	14.15	16.00
		62	5310	14.11	16.00



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	802.11ac VHT80	58	5290	9.24	11.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	14.77	16.00
		104	5520	14.73	16.00
		108	5540	14.80	16.00
		112	5560	14.85	16.00
		116	5580	15.09	16.00
		120	5600	15.24	16.00
		124	5620	15.23	16.00
		128	5640	15.18	16.00
		132	5660	15.22	16.00
		136	5680	15.25	16.00
		140	5700	15.29	16.00
		802.11n HT20	100	5500	12.97
	104		5520	14.79	16.00
	108		5540	14.92	16.00
	112		5560	14.95	16.00
	116		5580	14.97	16.00
	120		5600	14.92	16.00
	124		5620	15.00	16.00
	128		5640	14.97	16.00
	132		5660	15.06	16.00
	136		5680	15.05	16.00
	140		5700	15.21	16.00
	802.11n HT40		102	5510	13.34
		110	5550	14.15	16.00
		118	5590	14.19	16.00
		126	5630	14.21	16.00
		134	5670	14.24	16.00
	802.11ac VHT20	100	5500	13.00	14.50
		104	5520	15.03	16.00
		108	5540	14.97	16.00
		112	5560	14.96	16.00
		116	5580	14.91	16.00
		120	5600	14.98	16.00
		124	5620	15.01	16.00
		128	5640	15.05	16.00
		132	5660	15.14	16.00
136		5680	15.08	16.00	



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		140	5700	15.15	16.00
	802.11ac VHT40	102	5510	12.96	14.50
		110	5550	14.27	16.00
		118	5590	14.32	16.00
		126	5630	14.32	16.00
		134	5670	14.19	16.00
	802.11ac VHT80	106	5530	10.75	11.50
		122	5610	15.21	16.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	15.51	16.00
		153	5765	15.57	16.00
		157	5785	15.61	16.00
		161	5805	15.56	16.00
		165	5825	15.60	16.00
	802.11n HT20	149	5745	15.29	16.00
		153	5765	15.37	16.00
		157	5785	15.47	16.00
		161	5805	15.50	16.00
		165	5825	15.49	16.00
	802.11n HT40	151	5755	14.05	15.50
		159	5795	14.37	15.50
	802.11ac VHT20	149	5745	15.31	16.00
		153	5765	15.22	16.00
		157	5785	15.45	16.00
		161	5805	15.51	16.00
		165	5825	15.46	16.00
	802.11ac VHT40	151	5755	14.14	15.50
		159	5795	14.37	15.50
	802.11ac VHT80	155	5775	13.67	14.50



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5G WIFI Ant8 Receiver off 5G WIFI+WWAN+BT&Receiver on 5G WIFI+WWAN+BT					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	13.11	14.50
		40	5200	12.99	14.50
		44	5220	13.06	14.50
		48	5240	12.85	14.50
	802.11n HT20	36	5180	13.02	14.50
		40	5200	12.78	14.50
		44	5220	12.98	14.50
		48	5240	12.70	14.50
	802.11n HT40	38	5190	12.71	14.50
		46	5230	12.64	14.50
	802.11ac VHT20	36	5180	12.99	14.50
		40	5200	12.89	14.50
		44	5220	12.71	14.50
		48	5240	12.66	14.50
	802.11ac VHT40	38	5190	12.67	14.50
		46	5230	12.58	14.50
	802.11ac VHT80	42	5210	11.51	13.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-2A	802.11a	52	5260	12.75	14.50
		56	5280	13.01	14.50
		60	5300	12.96	14.50
		64	5320	12.03	13.50
	802.11n HT20	52	5260	12.60	14.50
		56	5280	12.66	14.50
		60	5300	12.61	14.50
		64	5320	11.66	13.50
	802.11n HT40	54	5270	12.61	14.50
		62	5310	12.68	14.50
	802.11ac VHT20	52	5260	12.75	14.50
		56	5280	12.70	14.50
		60	5300	12.60	14.50
		64	5320	11.60	13.50
	802.11ac VHT40	54	5270	12.68	14.50
		62	5310	12.64	14.50
	802.11ac VHT80	58	5290	7.73	9.50



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5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	13.24	14.50
		104	5520	13.21	14.50
		108	5540	13.27	14.50
		112	5560	13.35	14.50
		116	5580	13.62	14.50
		120	5600	13.72	14.50
		124	5620	13.71	14.50
		128	5640	13.62	14.50
		132	5660	13.73	14.50
		136	5680	13.73	14.50
		140	5700	13.77	14.50
	802.11n HT20	100	5500	11.46	13.00
		104	5520	13.36	14.50
		108	5540	13.39	14.50
		112	5560	13.45	14.50
		116	5580	13.45	14.50
		120	5600	13.43	14.50
		124	5620	13.43	14.50
		128	5640	13.50	14.50
		132	5660	13.61	14.50
		136	5680	13.62	14.50
		140	5700	13.73	14.50
	802.11n HT40	102	5510	11.86	13.50
		110	5550	12.63	14.50
		118	5590	12.69	14.50
		126	5630	12.71	14.50
		134	5670	12.72	14.50
	802.11ac VHT20	100	5500	11.46	13.00
		104	5520	13.52	14.50
		108	5540	13.40	14.50
		112	5560	13.41	14.50
		116	5580	13.48	14.50
		120	5600	13.51	14.50
		124	5620	13.52	14.50
		128	5640	13.51	14.50
		132	5660	13.56	14.50
		136	5680	13.58	14.50
		140	5700	13.68	14.50
		102	5510	11.53	13.00



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	802.11ac VHT40	110	5550	12.78	14.50
		118	5590	12.77	14.50
		126	5630	12.82	14.50
		134	5670	12.70	14.50
	802.11ac VHT80	106	5530	9.18	10.00
		122	5610	13.72	14.50
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	13.94	14.50
		153	5765	14.06	14.50
		157	5785	14.15	14.50
		161	5805	14.06	14.50
		165	5825	14.11	14.50
	802.11n HT20	149	5745	13.75	14.50
		153	5765	13.89	14.50
		157	5785	13.96	14.50
		161	5805	13.95	14.50
		165	5825	13.96	14.50
	802.11n HT40	151	5755	12.59	14.00
		159	5795	12.89	14.00
	802.11ac VHT20	149	5745	13.81	14.50
		153	5765	13.67	14.50
		157	5785	13.91	14.50
		161	5805	13.99	14.50
		165	5825	13.90	14.50
	802.11ac VHT40	151	5755	12.60	14.00
		159	5795	12.86	14.00
	802.11ac VHT80	155	5775	12.12	13.00



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9.3 Conducted Power of Bluetooth

BT Ant8 Receicer off		Average Conducted Power(dBm)					
Band	Channel	0	Tune up	39	Tune up	78	Tune up
BT	GFSK	17.35	18	17.65	18	16.15	18
	$\pi/4$ DQPSK	13.27	14	13.57	14	12.30	14
	8DPSK	11.92	13	12.38	13	11.18	12
Band	Channel	0	Tune up	19	Tune up	39	Tune up
BLE 1M	GFSK	7.49	8	7.77	8	7.23	8
Band	Channel	1	Tune up	19	Tune up	38	Tune up
BLE 2M	GFSK	7.39	8	7.28	8	7.19	8

BT Ant8 Receicer on		Average Conducted Power(dBm)					
Band	Channel	0	Tune up	39	Tune up	78	Tune up
BT	GFSK	11.83	13	12.56	13	11.25	13
	$\pi/4$ DQPSK	8.74	10	9.66	10	8.42	10
	8DPSK	8.76	10	9.62	10	8.46	10
Band	Channel	0	Tune up	19	Tune up	39	Tune up
BLE 1M	GFSK	7.49	8	7.77	8	7.23	8
Band	Channel	1	Tune up	19	Tune up	38	Tune up
BLE 2M	GFSK	7.39	8	7.28	8	7.19	8

- End of the Appendix -



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