

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

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

Report No.: SZCR250500221411

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N77 PC3 DS1 0/1				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	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	24.25	24.14	24.12	24.18	24.14	24.18	25.00
		1	137	24.27	24.18	24.29	24.28	24.24	24.24	25.00
		1	271	24.21	24.15	24.28	24.05	24.14	24.26	25.00
		135	0	23.52	23.58	23.58	23.76	23.64	23.67	24.50
		135	69	24.12	24.09	24.27	24.24	24.24	24.17	25.00
		135	138	23.83	23.74	23.77	23.81	23.70	23.53	24.50
		270	0	24.13	24.26	24.14	24.11	24.20	24.11	24.50
	DFT-s-OFDM QPSK	1	1	24.31	24.17	24.10	24.17	24.12	24.22	25.00
		1	137	24.35	24.21	24.32	24.29	24.24	24.22	25.00
		1	271	24.33	24.19	24.30	24.11	24.12	24.21	25.00
		135	0	23.24	23.13	23.10	23.29	23.18	23.15	24.00
		135	69	24.02	24.13	24.33	24.29	24.26	24.13	25.00
		135	138	23.22	23.26	23.28	23.26	23.20	23.07	24.00
		270	0	23.37	23.23	23.19	23.24	23.15	23.07	24.00
	DFT-s-OFDM 16QAM	1	1	22.90	22.89	23.43	23.16	23.07	23.17	24.00
	DFT-s-OFDM 64QAM	1	1	22.03	21.95	21.49	21.85	21.93	21.98	22.50
	DFT-s-OFDM 256QAM	1	1	19.71	19.68	19.48	19.93	19.91	19.75	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	22.56	22.67	22.55	22.59	22.74	22.57	23.50
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	24.07	24.16	24.21	24.23	24.15	24.16	25.00
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	24.12	24.08	24.15	24.09	24.00	24.23	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	

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<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	24.25	24.13	24.15	24.19	24.19	24.12	25.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	24.22	24.14	24.15	24.25	23.99	24.20	25.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	23.97	24.11	24.11	24.22	24.08	24.30	25.00



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N77 PC3 DS1 2/3/4					Conducted Power(dBm)						
					SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000		
100MHz	DFT-s-OFDM PI/2 BPSK			3750.00	3786.00	3822.00	3858.00	3894.00	3930.00		
		1	1	23.18	23.19	23.04	23.28	23.24	23.22	24.00	
		1	137	23.34	23.25	23.34	23.21	23.33	23.15	24.00	
		1	271	23.12	23.24	23.29	22.97	23.07	23.29	24.00	
		135	0	22.57	22.49	22.65	22.86	22.66	22.74	23.00	
		135	69	23.03	23.08	23.34	23.28	23.20	23.10	24.00	
		135	138	22.83	22.67	22.77	22.72	22.68	22.61	23.00	
	DFT-s-OFDM QPSK	270	0	23.06	23.36	23.04	23.19	23.28	23.06	23.50	
		1	1	23.26	23.22	23.13	23.13	23.03	23.22	24.00	
		1	137	23.25	23.31	23.24	23.30	23.27	23.29	24.00	
		1	271	23.24	23.26	23.23	23.01	23.02	23.22	24.00	
		135	0	22.21	22.03	22.16	22.37	22.13	22.16	23.00	
		135	69	23.03	23.07	23.25	23.35	23.21	23.18	24.00	
		135	138	22.17	22.17	22.24	22.17	22.28	22.17	23.00	
	DFT-s-OFDM 16QAM	270	0	22.31	22.26	22.11	22.14	22.18	22.04	23.00	
	DFT-s-OFDM 64QAM	1	1	21.97	21.84	22.53	22.19	22.08	22.16	23.00	
	DFT-s-OFDM 256QAM	1	1	21.00	20.92	20.41	20.80	20.87	20.95	21.50	
	DFT-s-OFDM 256QAM	1	1	18.71	18.58	18.46	18.86	18.93	18.78	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000		
100MHz	CP-OFDM QPSK	1	1	21.47	21.66	21.60	21.49	21.66	21.57	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666		
80MHz	DFT-s-OFDM QPSK	1	1	23.10	23.13	23.16	23.21	23.12	23.09	24.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332		
60MHz	DFT-s-OFDM QPSK	1	1	23.19	23.02	23.23	23.14	23.02	23.18	24.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000		

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<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	23.21	23.12	23.05	23.10	23.29	23.08	24.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	23.32	23.19	23.17	23.29	23.03	23.30	24.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	23.00	23.12	23.13	23.12	23.16	23.36	24.00

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N77 PC3 DS1 5					Conducted Power(dBm)						
					SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	662000	
100MHz	DFT-s-OFDM PI/2 BPSK			3750.00	3786.00	3822.00	3858.00	3894.00	3930.00		
		1	1	21.19	21.15	21.03	21.15	21.17	21.28	22.00	
		1	137	21.28	21.14	21.34	21.11	21.35	21.08	22.00	
		1	271	21.10	21.22	21.24	20.94	21.01	21.31	22.00	
		135	0	20.57	20.45	20.65	20.79	20.67	20.78	21.50	
		135	69	21.17	21.06	21.05	21.25	21.22	20.99	22.00	
		135	138	20.85	20.62	20.88	20.61	20.65	20.65	21.50	
	DFT-s-OFDM QPSK	270	0	21.01	20.90	21.16	21.23	21.31	21.12	21.50	
		1	1	21.14	21.19	21.16	21.19	20.92	21.16	22.00	
		1	137	21.25	21.31	21.16	21.35	21.12	21.38	22.00	
		1	271	21.28	21.16	21.20	20.99	20.98	21.14	22.00	
		135	0	20.32	20.17	20.06	20.32	20.19	20.15	21.00	
		135	69	20.99	21.16	21.20	21.30	21.09	21.30	22.00	
		135	138	20.17	20.07	20.25	20.19	20.18	20.03	21.00	
	DFT-s-OFDM 16QAM	270	0	20.33	20.36	20.19	20.14	20.20	20.03	21.00	
	DFT-s-OFDM 64QAM	1	1	19.92	19.69	20.42	20.08	20.18	20.18	21.00	
	DFT-s-OFDM 256QAM	1	1	19.12	18.90	18.48	18.74	18.89	19.09	19.50	
	DFT-s-OFDM 256QAM	1	1	16.71	16.55	16.60	16.77	16.90	16.83	17.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	662000	
100MHz	CP-OFDM QPSK	1	1	19.54	19.74	19.70	19.48	19.62	19.61	20.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	662666	
80MHz	DFT-s-OFDM QPSK	1	1	21.18	21.17	21.21	21.27	21.19	21.01	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	663332	
60MHz	DFT-s-OFDM QPSK	1	1	21.20	21.03	21.15	21.26	21.01	21.25	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	664000	

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<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	21.16	21.10	21.05	20.97	21.26	21.15	22.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	21.28	21.14	21.19	21.30	21.06	21.38	22.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	20.92	21.12	21.08	21.25	21.18	21.30	22.00

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SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.78	/	23.00
		1	137	/	22.74	/	23.00
		1	271	/	22.51	/	23.00
		135	0	/	19.04	/	19.50
		135	69	/	22.53	/	23.00
		135	138	/	18.69	/	19.50
		270	0	/	21.99	/	22.50
	DFT-s-OFDM QPSK	1	1	/	22.86	/	23.00
		1	137	/	22.59	/	23.00
		1	271	/	22.35	/	23.00
		135	0	/	19.19	/	19.50
		135	69	/	22.77	/	23.00
		135	138	/	18.97	/	19.50
		270	0	/	21.62	/	22.00
	DFT-s-OFDM 16QAM	1	1	/	21.92	/	22.00
	DFT-s-OFDM 64QAM	1	1	/	20.35	/	20.50
	DFT-s-OFDM 256QAM	1	1	/	18.37	/	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	21.36	/	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.69	22.74	22.76	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	22.39	22.75	22.53	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	22.77	22.65	22.70	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	

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<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	22.50	22.56	22.59	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	22.63	22.80	22.70	23.00



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N77 PC2 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.17	/	22.50
		1	137	/	22.06	/	22.50
		1	271	/	21.95	/	22.50
		135	0	/	18.40	/	19.00
		135	69	/	21.86	/	22.50
		135	138	/	18.14	/	19.00
		270	0	/	21.35	/	22.00
	DFT-s-OFDM QPSK	1	1	/	22.26	/	22.50
		1	137	/	22.04	/	22.50
		1	271	/	21.79	/	22.50
		135	0	/	18.48	/	19.00
		135	69	/	22.21	/	22.50
		135	138	/	18.28	/	19.00
		270	0	/	21.02	/	21.50
	DFT-s-OFDM 16QAM	1	1	/	21.41	/	21.50
	DFT-s-OFDM 64QAM	1	1	/	19.64	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	17.74	/	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	20.74	/	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.10	22.15	22.25	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	21.73	22.12	21.85	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	22.22	22.04	22.01	22.50
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	21.83	21.99	22.07	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	21.96	22.24	22.06	22.50

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N77 PC2 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.80	/	20.00
		1	137	/	19.74	/	20.00
		1	271	/	19.34	/	20.00
		135	0	/	16.04	/	16.50
		135	69	/	19.42	/	20.00
		135	138	/	15.62	/	16.50
		270	0	/	18.92	/	19.50
	DFT-s-OFDM QPSK	1	1	/	19.92	/	20.00
		1	137	/	19.48	/	20.00
		1	271	/	19.22	/	20.00
		135	0	/	16.12	/	16.50
		135	69	/	19.67	/	20.00
		135	138	/	15.79	/	16.50
		270	0	/	18.51	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	18.71	/	19.00
	DFT-s-OFDM 64QAM	1	1	/	17.23	/	17.50
	DFT-s-OFDM 256QAM	1	1	/	15.22	/	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	18.36	/	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.57	19.62	19.51	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	19.42	19.69	19.60	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.61	19.65	19.42	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	

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<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	19.52	19.60	19.64	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	19.52	19.73	19.56	20.00



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N77 PC2 DS1 5				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.26	/	19.50
		1	137	/	19.31	/	19.50
		1	271	/	18.84	/	19.50
		135	0	/	15.63	/	16.00
		135	69	/	19.07	/	19.50
		135	138	/	15.09	/	16.00
		270	0	/	18.37	/	19.00
	DFT-s-OFDM QPSK	1	1	/	19.40	/	19.50
		1	137	/	19.07	/	19.50
		1	271	/	18.74	/	19.50
		135	0	/	15.69	/	16.00
		135	69	/	19.24	/	19.50
		135	138	/	15.30	/	16.00
		270	0	/	18.11	/	18.50
	DFT-s-OFDM 16QAM	1	1	/	18.33	/	18.50
	DFT-s-OFDM 64QAM	1	1	/	16.83	/	17.00
	DFT-s-OFDM 256QAM	1	1	/	14.85	/	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	17.87	/	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.07	19.23	19.15	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	19.03	19.17	19.19	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.06	19.29	19.05	19.50
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	18.99	19.21	19.21	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	19.16	19.35	19.17	19.50



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N77 PC2 DS1 0/1				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	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.98	24.46	24.59	24.67	24.59	24.65	25.50
		1	137	24.22	24.55	24.68	24.58	24.52	24.49	25.50
		1	271	24.34	24.73	24.64	24.49	24.37	24.49	25.50
		135	0	20.75	20.96	21.07	21.18	21.09	20.98	22.00
		135	69	24.00	24.57	24.61	24.65	24.60	24.54	25.50
		135	138	20.62	21.12	20.97	21.24	21.02	20.86	22.00
		270	0	23.68	24.03	24.10	24.63	24.14	23.97	25.00
	DFT-s-OFDM QPSK	1	1	24.00	24.57	24.49	24.54	24.41	24.61	25.50
		1	137	24.14	24.64	24.61	24.70	24.68	24.50	25.50
		1	271	24.36	24.65	24.71	24.54	24.50	24.46	25.50
		135	0	20.63	21.02	20.97	21.10	21.10	21.01	22.00
		135	69	24.01	24.66	24.65	24.60	24.54	24.44	25.50
		135	138	20.73	21.16	21.18	21.18	21.14	20.96	22.00
		270	0	23.22	23.54	23.54	24.03	23.52	23.42	24.50
	DFT-s-OFDM 16QAM	1	1	23.06	23.31	23.68	23.61	23.36	23.64	24.50
	DFT-s-OFDM 64QAM	1	1	21.56	22.24	21.89	22.28	22.32	22.33	23.00
	DFT-s-OFDM 256QAM	1	1	19.49	20.06	19.99	20.21	20.22	20.25	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	22.59	23.09	22.94	23.07	23.19	22.84	24.00
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	23.96	24.59	24.53	24.58	24.48	24.54	25.50
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	23.81	24.59	24.58	24.42	24.46	24.65	25.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	

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<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	23.95	24.44	24.57	24.60	24.54	24.53	25.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	24.02	24.48	24.59	24.73	24.42	24.64	25.50
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	24.02	24.45	24.51	24.53	24.38	24.73	25.50

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N77 PC2 DS1 2/3/4				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	
100MHz	DFT-s-OFDM PI/2 BPSK			3750.00	3786.00	3822.00	3858.00	3894.00	3930.00	
		1	1	22.40	23.01	23.18	23.09	23.11	23.08	24.00
		1	137	22.81	23.06	23.09	23.13	23.08	22.92	24.00
		1	271	22.80	23.20	23.12	22.89	22.86	22.98	24.00
		135	0	19.19	19.50	19.56	19.75	19.56	19.50	20.50
		135	69	22.59	22.97	23.20	23.11	23.13	23.02	24.00
		135	138	19.09	19.57	19.51	19.79	19.53	19.33	20.50
	DFT-s-OFDM QPSK	270	0	22.11	22.62	22.66	23.07	22.73	22.42	23.50
		1	1	22.44	23.01	23.05	23.08	22.95	23.16	24.00
		1	137	22.57	23.09	23.06	23.26	23.16	22.90	24.00
		1	271	22.93	23.17	23.27	23.12	23.00	23.06	24.00
		135	0	19.09	19.53	19.50	19.60	19.54	19.61	20.50
		135	69	23.27	23.28	23.16	23.11	22.96	23.03	24.00
		135	138	19.19	19.61	19.69	19.76	19.70	19.41	20.50
	DFT-s-OFDM 16QAM	270	0	21.66	21.95	22.14	22.48	22.03	21.89	23.00
	DFT-s-OFDM 64QAM	1	1	21.59	21.83	22.17	22.04	21.88	22.18	23.00
	DFT-s-OFDM 256QAM	1	1	20.12	20.79	20.45	20.82	20.75	20.91	21.50
	DFT-s-OFDM 256QAM	1	1	18.02	18.48	18.39	18.69	18.75	18.72	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	21.18	21.64	21.40	21.59	21.76	21.26	22.50
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	22.49	23.17	23.11	23.18	23.06	22.97	24.00
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	22.31	23.05	22.98	23.02	22.87	23.14	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	

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<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	22.40	22.99	23.16	23.05	22.95	23.09	24.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	22.53	23.00	23.04	23.14	22.95	23.20	24.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	22.55	22.94	23.02	22.99	22.91	23.16	24.00

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N77 PC2 DS1 5					Conducted Power(dBm)						
					SCS 30kHz(3700~3980)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	662000	
100MHz	DFT-s-OFDM PI/2 BPSK			3750.00	3786.00	3822.00	3858.00	3894.00	3930.00		
		1	1	20.33	20.97	21.32	21.08	21.04	20.99	22.00	
		1	137	20.82	21.04	21.00	21.28	20.98	21.02	22.00	
		1	271	20.78	21.18	21.23	20.77	20.82	21.06	22.00	
		135	0	17.24	17.55	17.41	17.67	17.46	17.58	18.50	
		135	69	20.56	21.00	21.23	21.08	21.10	20.94	22.00	
		135	138	17.10	17.62	17.63	17.67	17.47	17.41	18.50	
	DFT-s-OFDM QPSK	270	0	20.02	20.71	20.70	21.06	20.72	20.41	21.50	
		1	1	20.52	21.02	21.08	21.01	20.86	21.24	22.00	
		1	137	20.52	21.06	21.00	21.36	21.03	20.95	22.00	
		1	271	20.81	21.26	21.24	21.11	21.10	20.95	22.00	
		135	0	17.10	17.64	17.50	17.75	17.48	17.56	18.50	
		135	69	20.59	21.14	21.11	21.19	20.91	20.99	22.00	
		135	138	17.14	17.73	17.63	17.65	17.77	17.43	18.50	
	DFT-s-OFDM 16QAM	270	0	19.72	19.87	20.14	20.41	19.92	19.85	21.00	
	DFT-s-OFDM 64QAM	1	1	19.65	19.71	20.22	19.95	19.79	20.13	21.00	
	DFT-s-OFDM 256QAM	1	1	18.14	18.72	18.42	18.84	18.67	18.91	19.50	
	100MHz	CP-OFDM QPSK	1	1	16.00	16.42	16.43	16.60	16.76	16.67	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	19.04	19.62	19.38	19.64	19.81	19.13	20.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	20.44	21.27	21.16	21.09	21.15	20.89	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	20.30	20.97	21.02	20.99	20.81	21.18	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000		

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<b>40MHz</b>	DFT-s-OFDM QPSK	1	1	20.34	20.94	21.08	21.03	20.95	21.10	22.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
<b>30MHz</b>	DFT-s-OFDM QPSK	1	1	20.55	21.13	20.99	21.08	20.93	21.19	22.00
<b>Bandwidth</b>	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
<b>20MHz</b>	DFT-s-OFDM QPSK	1	1	20.67	21.05	21.04	21.12	20.92	21.22	22.00



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N78 PC3 DS1 0/1				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.69	/	23.50
		1	137	/	22.58	/	23.50
		1	271	/	22.36	/	23.50
		135	0	/	22.06	/	23.00
		135	69	/	22.42	/	23.50
		135	138	/	21.87	/	23.00
		270	0	/	22.02	/	23.00
	DFT-s-OFDM QPSK	1	1	/	22.63	/	23.50
		1	137	/	22.55	/	23.50
		1	271	/	22.45	/	23.50
		135	0	/	21.63	/	22.50
		135	69	/	22.49	/	23.50
		135	138	/	21.45	/	22.50
		270	0	/	21.49	/	22.50
	DFT-s-OFDM 16QAM	1	1	/	21.82	/	22.50
	DFT-s-OFDM 64QAM	1	1	/	20.36	/	21.00
	DFT-s-OFDM 256QAM	1	1	/	18.32	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		21.15		22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	22.47	22.57	22.43	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.64	22.53	22.64	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	22.57	22.66	22.42	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	22.51	22.50	22.61	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	22.45	22.63	22.47	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	22.63	22.42	22.63	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	22.42	22.44	22.57	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	22.58	22.62	22.48	23.50

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N78 PC3 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.83	/	22.50
		1	137	/	21.72	/	22.50
		1	271	/	21.24	/	22.50
		135	0	/	21.01	/	22.00
		135	69	/	21.28	/	22.50
		135	138	/	20.80	/	22.00
		270	0	/	21.17	/	22.00
	DFT-s-OFDM QPSK	1	1	/	21.61	/	22.50
		1	137	/	21.61	/	22.50
		1	271	/	21.36	/	22.50
		135	0	/	20.63	/	21.50
		135	69	/	21.54	/	22.50
		135	138	/	20.43	/	21.50
		270	0	/	20.38	/	21.50
	DFT-s-OFDM 16QAM	1	1	/	20.74	/	21.50
	DFT-s-OFDM 64QAM	1	1	/	19.31	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	17.45	/	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		20.19		21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	21.42	21.42	21.39	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	21.68	21.50	21.69	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	21.46	21.51	21.42	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	21.62	21.35	21.47	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	21.31	21.65	21.43	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	21.51	21.39	21.55	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	21.45	21.39	21.56	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	21.70	21.62	21.36	22.50

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N78 PC3 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.39	/	21.00
		1	137	/	20.41	/	21.00
		1	271	/	19.88	/	21.00
		135	0	/	19.62	/	20.50
		135	69	/	19.71	/	21.00
		135	138	/	19.35	/	20.50
		270	0	/	19.74	/	20.50
	DFT-s-OFDM QPSK	1	1	/	20.31	/	21.00
		1	137	/	20.18	/	21.00
		1	271	/	20.01	/	21.00
		135	0	/	19.25	/	20.00
		135	69	/	20.23	/	21.00
		135	138	/	18.99	/	20.00
		270	0	/	18.87	/	20.00
	DFT-s-OFDM 16QAM	1	1	/	19.16	/	20.00
	DFT-s-OFDM 64QAM	1	1	/	18.01	/	18.50
	DFT-s-OFDM 256QAM	1	1	/	16.02	/	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		18.64		19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	19.92	19.94	19.83	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	20.35	20.00	20.35	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	19.96	20.12	20.09	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	20.06	19.83	19.91	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	19.79	20.07	20.10	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	20.02	19.91	20.12	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	20.05	20.02	20.26	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	20.31	20.32	20.02	21.00

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N78 PC3 DS1 5				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.95	/	20.50
		1	137	/	19.76	/	20.50
		1	271	/	19.52	/	20.50
		135	0	/	19.27	/	20.00
		135	69	/	19.31	/	20.50
		135	138	/	18.87	/	20.00
		270	0	/	19.13	/	20.00
	DFT-s-OFDM QPSK	1	1	/	19.91	/	20.50
		1	137	/	19.56	/	20.50
		1	271	/	19.63	/	20.50
		135	0	/	18.80	/	19.50
		135	69	/	19.66	/	20.50
		135	138	/	18.35	/	19.50
		270	0	/	18.27	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	18.76	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	17.66	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	15.44	/	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		18.18		19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	19.54	19.54	19.25	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.73	19.62	19.93	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	19.42	19.59	19.57	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	19.55	19.23	19.39	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	19.24	19.49	19.45	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.56	19.45	19.50	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	19.53	19.56	19.82	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	19.86	19.97	19.49	20.50

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N78 PC3 DS1 0/1/2/3				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.83	/	25.00
		1	137	/	23.98	/	25.00
		1	271	/	24.26	/	25.00
		135	0	/	23.36	/	24.50
		135	69	/	24.07	/	25.00
		135	138	/	23.62	/	24.50
		270	0	/	23.45	/	24.50
	DFT-s-OFDM QPSK	1	1	/	23.83	/	25.00
		1	137	/	24.03	/	25.00
		1	271	/	24.16	/	25.00
		135	0	/	22.91	/	24.00
		135	69	/	24.02	/	25.00
		135	138	/	23.08	/	24.00
		270	0	/	23.09	/	24.00
	DFT-s-OFDM 16QAM	1	1	/	22.86	/	24.00
	DFT-s-OFDM 64QAM	1	1	/	21.39	/	22.50
	DFT-s-OFDM 256QAM	1	1	/	19.15	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	22.36	/	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	23.89	24.14	24.03	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	24.02	24.14	23.99	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	23.87	24.05	23.94	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	23.82	24.19	23.95	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	23.90	24.17	23.96	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	23.74	24.08	23.96	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	23.99	24.03	24.04	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	23.96	24.13	23.93	25.00

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N78 PC3 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.84	/	24.00
		1	137	/	22.97	/	24.00
		1	271	/	23.21	/	24.00
		135	0	/	22.38	/	23.50
		135	69	/	23.12	/	24.00
		135	138	/	22.62	/	23.50
		270	0	/	22.45	/	23.50
	DFT-s-OFDM QPSK	1	1	/	22.84	/	24.00
		1	137	/	23.08	/	24.00
		1	271	/	23.20	/	24.00
		135	0	/	21.91	/	23.00
		135	69	/	22.98	/	24.00
		135	138	/	22.04	/	23.00
		270	0	/	22.05	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	21.85	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	20.37	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	18.15	/	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	21.34	/	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	22.92	23.18	23.06	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	23.04	23.19	23.04	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	22.84	23.10	22.98	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	22.77	23.24	22.97	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	22.93	23.17	22.92	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	22.75	23.05	23.00	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	22.94	23.08	23.06	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	22.95	23.11	22.98	24.00

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N78 PC3 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.72	/	23.00
		1	137	/	21.88	/	23.00
		1	271	/	22.22	/	23.00
		135	0	/	21.24	/	22.50
		135	69	/	22.03	/	23.00
		135	138	/	21.50	/	22.50
		270	0	/	21.53	/	22.50
	DFT-s-OFDM QPSK	1	1	/	21.92	/	23.00
		1	137	/	22.02	/	23.00
		1	271	/	22.16	/	23.00
		135	0	/	20.95	/	22.00
		135	69	/	22.17	/	23.00
		135	138	/	21.01	/	22.00
		270	0	/	21.21	/	22.00
	DFT-s-OFDM 16QAM	1	1	/	20.96	/	22.00
	DFT-s-OFDM 64QAM	1	1	/	19.39	/	20.50
	DFT-s-OFDM 256QAM	1	1	/	17.24	/	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	20.39	/	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	21.82	22.00	21.95	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	22.07	22.26	21.85	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	21.74	21.96	21.88	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	21.77	22.34	22.02	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	21.89	22.23	21.99	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	21.60	22.09	21.98	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	21.94	21.96	22.14	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	21.89	22.21	21.93	23.00

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N78 PC3 DS1 5				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.88	/	22.00
		1	137	/	20.95	/	22.00
		1	271	/	21.20	/	22.00
		135	0	/	20.19	/	21.50
		135	69	/	20.97	/	22.00
		135	138	/	20.45	/	21.50
		270	0	/	20.66	/	21.50
	DFT-s-OFDM QPSK	1	1	/	21.04	/	22.00
		1	137	/	20.93	/	22.00
		1	271	/	21.07	/	22.00
		135	0	/	19.99	/	21.00
		135	69	/	21.11	/	22.00
		135	138	/	19.88	/	21.00
		270	0	/	20.22	/	21.00
	DFT-s-OFDM 16QAM	1	1	/	20.10	/	21.00
	DFT-s-OFDM 64QAM	1	1	/	18.41	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	16.34	/	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	19.47	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	20.69	21.01	20.89	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	21.21	21.42	20.84	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	20.60	21.01	20.71	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	20.82	21.36	21.04	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	20.87	21.17	20.83	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	20.50	21.08	20.81	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	21.00	21.10	21.16	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	20.86	21.29	20.95	22.00

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N78 PC2 DS1 0/1				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.82	/	23.50
		1	137	/	22.46	/	23.50
		1	271	/	22.43	/	23.50
		135	0	/	19.20	/	20.00
		135	69	/	22.70	/	23.50
		135	138	/	19.31	/	20.00
		270	0	/	21.73	/	23.00
	DFT-s-OFDM QPSK	1	1	/	22.81	/	23.50
		1	137	/	22.63	/	23.50
		1	271	/	22.65	/	23.50
		135	0	/	19.33	/	20.00
		135	69	/	22.75	/	23.50
		135	138	/	19.20	/	20.00
		270	0	/	21.66	/	22.50
	DFT-s-OFDM 16QAM	1	1	/	21.72	/	22.50
	DFT-s-OFDM 64QAM	1	1	/	20.42	/	21.00
	DFT-s-OFDM 256QAM	1	1	/	18.12	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		21.34		22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	22.46	22.70	22.47	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	22.56	22.72	22.37	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	22.40	22.74	22.51	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	22.45	22.62	22.62	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	22.48	22.83	22.36	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	22.64	22.64	22.51	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	22.50	22.70	22.61	23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	22.51	22.66	22.61	23.50

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N78 PC2 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.68	/	22.50
		1	137	/	21.51	/	22.50
		1	271	/	21.36	/	22.50
		135	0	/	18.30	/	19.00
		135	69	/	21.84	/	22.50
		135	138	/	18.38	/	19.00
		270	0	/	20.69	/	22.00
	DFT-s-OFDM QPSK	1	1	/	21.89	/	22.50
		1	137	/	21.63	/	22.50
		1	271	/	21.79	/	22.50
		135	0	/	18.31	/	19.00
		135	69	/	21.82	/	22.50
		135	138	/	18.21	/	19.00
		270	0	/	20.78	/	21.50
	DFT-s-OFDM 16QAM	1	1	/	20.57	/	21.50
	DFT-s-OFDM 64QAM	1	1	/	19.40	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	17.24	/	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		20.33		21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	21.50	21.77	21.50	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	21.71	21.64	21.49	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	21.44	21.89	21.49	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	21.57	21.50	21.72	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	21.33	21.86	21.23	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	21.59	21.62	21.59	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	21.65	21.73	21.48	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	21.49	21.79	21.62	22.50

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N78 PC2 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.11	/	21.00
		1	137	/	20.16	/	21.00
		1	271	/	19.93	/	21.00
		135	0	/	16.83	/	17.50
		135	69	/	20.38	/	21.00
		135	138	/	16.93	/	17.50
		270	0	/	19.10	/	20.50
	DFT-s-OFDM QPSK	1	1	/	20.53	/	21.00
		1	137	/	19.99	/	21.00
		1	271	/	20.34	/	21.00
		135	0	/	16.91	/	17.50
		135	69	/	20.39	/	21.00
		135	138	/	16.85	/	17.50
		270	0	/	19.33	/	20.00
	DFT-s-OFDM 16QAM	1	1	/	18.98	/	20.00
	DFT-s-OFDM 64QAM	1	1	/	17.94	/	18.50
	DFT-s-OFDM 256QAM	1	1	/	15.82	/	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		18.70		19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	19.91	20.22	19.86	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	20.10	20.15	20.05	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	20.00	20.43	19.87	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	20.16	20.11	20.30	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	19.96	20.23	19.64	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	20.02	20.00	19.94	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	20.17	20.26	19.98	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	20.12	20.14	20.16	21.00

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N78 PC2 DS1 5				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.61	/	20.50
		1	137	/	19.66	/	20.50
		1	271	/	19.35	/	20.50
		135	0	/	16.21	/	17.00
		135	69	/	20.03	/	20.50
		135	138	/	16.30	/	17.00
		270	0	/	18.58	/	20.00
	DFT-s-OFDM QPSK	1	1	/	20.11	/	20.50
		1	137	/	19.52	/	20.50
		1	271	/	19.94	/	20.50
		135	0	/	16.36	/	17.00
		135	69	/	19.90	/	20.50
		135	138	/	16.37	/	17.00
		270	0	/	18.85	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	18.47	/	19.50
	DFT-s-OFDM 64QAM	1	1	/	17.39	/	18.00
	DFT-s-OFDM 256QAM	1	1	/	15.23	/	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		18.27		19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	19.38	19.61	19.47	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	19.45	19.71	19.58	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	19.55	19.95	19.39	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	

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60MHz	DFT-s-OFDM QPSK	1	1	19.68	19.64	19.69	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	19.51	19.70	19.20	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	19.63	19.38	19.46	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	DFT-s-OFDM QPSK	1	1	19.61	19.79	19.63	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	19.61	19.57	19.51	20.50

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N78 PC2 DS1 0/1				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.86	/	25.00
		1	137	/	24.14	/	25.00
		1	271	/	24.42	/	25.00
		135	0	/	20.42	/	21.50
		135	69	/	24.02	/	25.00
		135	138	/	20.65	/	21.50
		270	0	/	23.67	/	24.50
	DFT-s-OFDM QPSK	1	1	/	23.93	/	25.00
		1	137	/	23.86	/	25.00
		1	271	/	24.29	/	25.00
		135	0	/	20.52	/	21.50
		135	69	/	24.10	/	25.00
		135	138	/	20.52	/	21.50
		270	0	/	22.96	/	24.00
	DFT-s-OFDM 16QAM	1	1	/	23.24	/	24.00
	DFT-s-OFDM 64QAM	1	1	/	21.41	/	22.50
	DFT-s-OFDM 256QAM	1	1	/	19.66	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1		22.60		23.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	24.05	24.01	23.86	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	24.07	23.88	24.04	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	24.11	23.88	23.87	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	24.18	24.07	24.02	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	24.04	24.03	24.13	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	24.27	23.98	23.92	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	24.28	24.05	23.88	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	24.12	24.28	23.91	25.00

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N78 PC2 DS1 2/3				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	22.86	/	24.00
		1	137	/	23.11	/	24.00
		1	271	/	23.41	/	24.00
		135	0	/	19.39	/	20.50
		135	69	/	22.97	/	24.00
		135	138	/	19.61	/	20.50
		270	0	/	22.70	/	23.50
	DFT-s-OFDM QPSK	1	1	/	22.89	/	24.00
		1	137	/	22.85	/	24.00
		1	271	/	23.30	/	24.00
		135	0	/	19.55	/	20.50
		135	69	/	23.09	/	24.00
		135	138	/	19.55	/	20.50
		270	0	/	21.99	/	23.00
	DFT-s-OFDM 16QAM	1	1	/	22.19	/	23.00
	DFT-s-OFDM 64QAM	1	1	/	20.44	/	21.50
	DFT-s-OFDM 256QAM	1	1	/	18.65	/	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1		21.61		22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	23.00	22.96	22.82	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	23.02	22.92	23.03	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	23.07	22.91	22.85	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	23.23	23.11	22.97	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	23.01	23.06	23.14	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	23.28	23.00	22.94	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	23.26	23.08	22.92	24.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	23.07	23.29	22.94	24.00

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N78 PC2 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.99	/	23.00
		1	137	/	22.34	/	23.00
		1	271	/	22.61	/	23.00
		135	0	/	18.28	/	19.50
		135	69	/	21.83	/	23.00
		135	138	/	18.56	/	19.50
		270	0	/	21.53	/	22.50
	DFT-s-OFDM QPSK	1	1	/	22.10	/	23.00
		1	137	/	21.88	/	23.00
		1	271	/	22.20	/	23.00
		135	0	/	18.47	/	19.50
		135	69	/	22.28	/	23.00
		135	138	/	18.47	/	19.50
		270	0	/	20.88	/	22.00
	DFT-s-OFDM 16QAM	1	1	/	21.24	/	22.00
	DFT-s-OFDM 64QAM	1	1	/	19.43	/	20.50
	DFT-s-OFDM 256QAM	1	1	/	17.65	/	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1		20.82		21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	22.05	22.06	21.77	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	22.09	21.78	21.77	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	21.90	21.75	21.94	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	22.02	22.21	21.86	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	21.99	21.87	21.93	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	22.14	21.96	21.74	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	22.19	22.12	21.69	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	22.11	22.33	21.96	23.00

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N78 PC2 DS1 5				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.85	/	22.00
		1	137	/	21.13	/	22.00
		1	271	/	21.61	/	22.00
		135	0	/	17.50	/	18.50
		135	69	/	21.02	/	22.00
		135	138	/	17.80	/	18.50
		270	0	/	20.48	/	21.50
	DFT-s-OFDM QPSK	1	1	/	20.94	/	22.00
		1	137	/	20.91	/	22.00
		1	271	/	21.23	/	22.00
		135	0	/	17.49	/	18.50
		135	69	/	21.31	/	22.00
		135	138	/	17.61	/	18.50
		270	0	/	19.95	/	21.00
	DFT-s-OFDM 16QAM	1	1	/	20.30	/	21.00
	DFT-s-OFDM 64QAM	1	1	/	18.47	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	16.57	/	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1		19.65		20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	20.99	21.12	20.85	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	20.98	20.83	21.08	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	21.19	20.72	21.03	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	

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60MHz	DFT-s-OFDM QPSK	1	1	21.09	20.96	20.98	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	20.83	20.74	21.05	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	21.27	21.06	20.76	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	21.29	21.21	20.63	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	21.01	21.31	20.78	22.00

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N77 PC3 DS1 0/1/2/3				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	18.42	/	19.50
		1	137	/	18.28	/	19.50
		1	271	/	18.31	/	19.50
		135	0	/	16.83	/	18.00
		135	69	/	16.89	/	18.00
		135	138	/	18.27	/	19.50
		270	0	/	16.85	/	18.00
	CP-OFDM 16QAM	1	1	/	18.01	/	19.00
	CP-OFDM 64QAM	1	1	/	16.30	/	17.50
	CP-OFDM 256QAM	1	1	/	13.60	/	14.50
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Tune up
					632668	633334	
80MHz	CP-OFDM QPSK	1	1	18.35	18.48	18.40	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	CP-OFDM QPSK	1	1	18.32	18.42	18.33	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	CP-OFDM QPSK	1	1	18.32	18.45	18.39	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	CP-OFDM QPSK	1	1	18.36	18.55	18.31	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	CP-OFDM QPSK	1	1	18.39	18.37	18.38	19.50

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N77 PC3 DS1 4				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	3500.01	/	
		1	137	/	15.98	/	17.00
		1	271	/	15.82	/	17.00
		135	0	/	15.85	/	17.00
		135	69	/	14.48	/	15.50
		135	138	/	14.26	/	15.50
		270	0	/	15.73	/	17.00
	CP-OFDM 16QAM	1	1	/	14.30	/	15.50
	CP-OFDM 64QAM	1	1	/	15.46	/	16.50
	CP-OFDM 256QAM	1	1	/	13.82	/	15.00
80MHz	CP-OFDM QPSK	1	1	Channel	Channel	Channel	Tune up
				632668	633334	634000	
60MHz	CP-OFDM QPSK	1	1	15.77	15.90	15.89	17.00
40MHz	CP-OFDM QPSK	1	1	Channel	Channel	Channel	Tune up
				631334	633334	635334	
30MHz	CP-OFDM QPSK	1	1	15.92	15.98	15.90	17.00
20MHz	CP-OFDM QPSK	1	1	Channel	Channel	Channel	Tune up
				631001	633334	635667	
15MHz	CP-OFDM QPSK	1	1	15.80	16.11	15.90	17.00
10MHz	CP-OFDM QPSK	1	1	Channel	Channel	Channel	Tune up
				630668	633334	636000	
8MHz	CP-OFDM QPSK	1	1	16.01	15.84	15.77	17.00

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N77 PC3 DS1 5				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	3500.01	/	
		1	137	/	15.32	/	16.50
		1	271	/	15.34	/	16.50
		135	0	/	15.39	/	16.50
		135	69	/	14.08	/	15.00
		135	138	/	13.66	/	15.00
		270	0	/	15.37	/	16.50
	CP-OFDM 16QAM	1	1	/	13.94	/	15.00
	CP-OFDM 64QAM	1	1	/	15.11	/	16.00
	CP-OFDM 256QAM	1	1	/	13.21	/	14.50
80MHz	CP-OFDM QPSK	1	1	Channel	Channel	Channel	Tune up
				632668	633334	634000	
60MHz	CP-OFDM QPSK	1	1	15.42	15.45	15.50	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
40MHz	CP-OFDM QPSK	1	1	15.30	15.46	15.51	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
30MHz	CP-OFDM QPSK	1	1	15.57	15.56	15.43	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
20MHz	CP-OFDM QPSK	1	1	15.42	15.47	15.48	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	

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N77 PC3 DS1 0/1/2/3/4/5				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	
100MHz	CP-OFDM QPSK		1	18.23	18.05	18.15	18.37	18.52	18.58	19.50
			1	137	18.56	18.70	18.66	18.69	18.95	18.79
			1	271	18.04	17.92	18.01	18.24	18.37	18.42
			135	0	17.07	16.93	17.17	17.06	17.16	17.12
			135	69	17.28	17.24	17.02	17.15	17.47	17.31
			135	138	18.67	18.56	18.62	18.64	18.86	18.85
			270	0	17.10	17.13	17.19	17.15	17.26	17.41
	CP-OFDM 16QAM		1	1	17.46	17.50	17.57	17.60	17.88	17.81
	CP-OFDM 64QAM		1	1	16.19	16.42	16.14	16.29	16.63	16.34
	CP-OFDM 256QAM		1	1	13.51	13.72	13.48	13.62	13.80	13.91
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	
80MHz	CP-OFDM QPSK	1	1	18.12	18.02	18.15	18.50	18.44	18.43	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
60MHz	CP-OFDM QPSK	1	1	18.21	18.11	18.29	18.49	18.45	18.72	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	
40MHz	CP-OFDM QPSK	1	1	18.37	18.20	18.12	18.45	18.38	18.72	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647666	651000	654334	657666	661000	664334	
30MHz	CP-OFDM QPSK	1	1	18.38	18.10	18.05	18.36	18.38	18.70	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
20MHz	CP-OFDM QPSK	1	1	18.35	18.05	18.19	18.32	18.61	18.67	19.50

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N77 PC2 DS1 0/1				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	18.79	/	20.00
		1	137	/	18.55	/	20.00
		1	271	/	18.68	/	20.00
		135	0	/	17.00	/	18.50
		135	69	/	16.96	/	18.50
		135	138	/	18.63	/	20.00
		270	0	/	17.02	/	18.50
	CP-OFDM 16QAM	1	1	/	18.24	/	19.50
	CP-OFDM 64QAM	1	1	/	16.50	/	18.00
	CP-OFDM 256QAM	1	1	/	13.74	/	15.00
80MHz	CP-OFDM QPSK	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	CP-OFDM QPSK	1	1	18.54	18.57	18.52	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	CP-OFDM QPSK	1	1	18.68	18.58	18.60	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	CP-OFDM QPSK	1	1	18.55	18.75	18.73	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631001	633334	635667	
30MHz	CP-OFDM QPSK	1	1	18.64	18.86	18.46	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	CP-OFDM QPSK	1	1	18.53	18.69	18.52	20.00

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