



REPORT No.: SZ24060210W02

TEST REPORT

APPLICANT : Sonim Technologies, Inc.

PRODUCT NAME : Mobile Hotspot

MODEL NAME : H500V

BRAND NAME : Sonim

FCC ID : WYPH500V

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 96

RECEIPT DATE : 2024-06-29

TEST DATE : 2024-07-15 to 2024-07-22

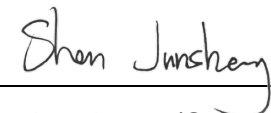
ISSUE DATE : 2024-09-21



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Change History		
Version	Date	Reason for change
1.0	2024-09-21	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Sonim Technologies, Inc.
Applicant Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer:	Sonim Technologies, Inc.
Manufacturer Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Hotspot	
Hardware Version:	V2.0	
Software Version:	H50.0-03-5.4.0-15.32.00	
Sample No.:	14#	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
Power Class:	PC2:	n77, n78
	PC3:	n2, n5, n48, n66, n77, n78
EN-DC Band:	n2	DC_5A_n2A, DC_13A_n2A, DC_66A_n2A
	n5	DC_2A_n5A, DC_48A_n5A, DC_66A_n5A
	n66	DC_2A_n66A, DC_5A_n66A, DC_48A_n66A, DC_13A_n66A,
	n77	DC_2A_n77A, DC_5A_n77A, DC_13A_n77A, DC_66A_n77A
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n48	Tx: 3550 MHz-3700 MHz
		Rx: 3550 MHz-3700 MHz
	n66	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	n77	Tx: 3450MHz-3550MHz



		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3980MHz
		Rx: 3700MHz-3980MHz
	n78	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3800MHz
		Rx: 3700MHz-3800MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n48	10MHz, 20MHz, 30MHz, 40MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz, 30MHz
	n77	20MHz, 30MHz, 40MHz, 60MHz, 80MHz, 100MHz
	n78	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	n2	ANT0: 2.40dBi, ANT1: 2.17dBi
	n5	ANT4: -1.14dBi
	n48	ANT2: -0.14dBi, ANT3: -0.03dBi
	n66	ANT0: 1.29dBi, ANT1: 1.93dBi
	n77	ANT2: 2.65dBi, ANT3: 2.31dBi
	n78	ANT2: -0.07dBi, ANT3: -0.03dBi
Accessory Information:	Battery Type	
	Brand Name:	sonim
	Model No.:	BAT-06000-01S
	Serial No.:	N/A
	Capacity:	6000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.
	AC Adapter	
	Brand Name:	N/A
	Model No.:	1-CHUSQ302-097
	Serial No.:	N/A
	Rated Input:	100-240V~50/60HZ, 0.5A
	Rated Output:	5V=3000mA, 9V=2000mA, 12V=1500mA
	Manufacturer :	HUIZHOU PUAN ELEOTRONICS CO.,LTD
	USB Cable	



	Model No.:	USB TYPE A TO C 3.0 CABLE (1.0M)
	Manufacturer:	Dongguan GuoJun Plastic Electronics Co.,Ltd

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 3: n77 supports both power class 2 and class 3. We have evaluated two power classes respectively by performing full test, for Conducted Output Power .we recorded the test result of two power classes separately, for other test items we only recorded the worst test result (Class 2) in this report.

Note 4: There is no test for SA n78 due to the band is completely covered by SA n77 and its power level setting also less than SA n77.

Note 5: In the same NR frequency band, the measured power in SA mode is higher than that in NSA mode, SA mode is selected to test all test cases.



1.3. Maximum ERP/EIRP and Emission Designator

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

n2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4882	4M49G7D
	QPSK	22.96	25.36	0.344	4.5	4M50G7D
	16QAM	/	/	/	4.4989	4M50W7D
	64QAM	/	/	/	4.4804	4M48W7D
	256QAM	/	/	/	4.4865	4M49W7D
	CP-QPSK	/	/	/	4.4784	4M48G7D
10	PI/2 BPSK	/	/	/	8.9267	8M93G7D
	QPSK	22.71	25.11	0.324	8.9276	8M93G7D
	16QAM	/	/	/	8.9564	8M96W7D
	64QAM	/	/	/	8.9308	8M93W7D
	256QAM	/	/	/	8.9302	8M93W7D
	CP-QPSK	/	/	/	9.2963	9M30G7D
15	PI/2 BPSK	/	/	/	13.423	13M4G7D
	QPSK	23.16	25.56	0.360	13.438	13M4G7D
	16QAM	/	/	/	13.436	13M4W7D
	64QAM	/	/	/	13.405	13M4W7D
	256QAM	/	/	/	13.456	13M5W7D
	CP-QPSK	/	/	/	14.119	14M1G7D
20	PI/2 BPSK	22.94	25.34	0.342	17.894	17M9G7D
	QPSK	23.35	25.75	0.376	17.89	17M9G7D
	16QAM	21.86	24.26	0.267	17.906	17M9W7D
	64QAM	20.44	22.84	0.192	17.913	17M9W7D
	256QAM	18.21	20.61	0.115	17.872	17M9W7D
	CP-QPSK	/	/	/	18.922	18M9G7D



n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4905	4M49G7D
	QPSK	22.82	19.53	0.090	4.5086	4M51G7D
	16QAM	/	/	/	4.4878	4M49W7D
	64QAM	/	/	/	4.4816	4M48W7D
	256QAM	/	/	/	4.4834	4M48W7D
	CP-QPSK	/	/	/	4.4837	4M48G7D
10	PI/2 BPSK	/	/	/	8.9271	8M93G7D
	QPSK	22.79	19.50	0.089	8.9347	8M93G7D
	16QAM	/	/	/	8.9538	8M95W7D
	64QAM	/	/	/	8.9351	8M94W7D
	256QAM	/	/	/	8.9258	8M93W7D
	CP-QPSK	/	/	/	9.301	9M30G7D
15	PI/2 BPSK	/	/	/	13.423	13M4G7D
	QPSK	22.95	19.66	0.092	13.439	13M4G7D
	16QAM	/	/	/	13.438	13M4W7D
	64QAM	/	/	/	13.411	13M4W7D
	256QAM	/	/	/	13.438	13M4W7D
	CP-QPSK	/	/	/	14.112	14M1G7D
20	PI/2 BPSK	23.02	19.73	0.094	17.827	17M8G7D
	QPSK	23.06	19.77	0.095	17.812	17M8G7D
	16QAM	22.17	18.88	0.077	17.84	17M8W7D
	64QAM	20.63	17.34	0.054	17.84	17M8W7D
	256QAM	18.46	15.17	0.033	17.804	17M8W7D
	CP-QPSK	/	/	/	18.849	18M9G7D

n48						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.5849	8M58G7D
	QPSK	22.66	22.52	0.179	8.5893	8M59G7D
	16QAM	/	/	/	8.6403	8M64W7D
	64QAM	/	/	/	8.5995	8M60W7D
	256QAM	/	/	/	8.5977	8M60W7D
	CP-QPSK	/	/	/	8.5859	8M59G7D
20	PI/2 BPSK	/	/	/	17.824	17M8G7D
	QPSK	22.76	22.62	0.183	17.822	17M8G7D
	16QAM	/	/	/	17.86	17M9W7D
	64QAM	/	/	/	17.818	17M8W7D
	256QAM	/	/	/	17.841	17M8W7D
	CP-QPSK	/	/	/	17.867	17M9G7D
30	PI/2 BPSK	/	/	/	26.778	26M8G7D
	QPSK	22.59	22.45	0.176	26.82	26M8G7D
	16QAM	/	/	/	26.843	26M8W7D
	64QAM	/	/	/	26.798	26M8W7D
	256QAM	/	/	/	26.791	26M8W7D
	CP-QPSK	/	/	/	26.834	26M8G7D
40	PI/2 BPSK	22.77	22.63	0.183	35.721	35M7G7D
	QPSK	22.78	22.64	0.184	35.759	35M8G7D
	16QAM	21.56	21.42	0.139	35.769	35M8W7D
	64QAM	20.25	20.11	0.103	35.823	35M8W7D
	256QAM	17.94	17.80	0.060	35.754	35M8W7D
	CP-QPSK	/	/	/	35.714	35M7G7D



n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4897	4M49G7D
	QPSK	23.01	24.94	0.312	4.4912	4M49G7D
	16QAM	/	/	/	4.4962	4M50W7D
	64QAM	/	/	/	4.4791	4M48W7D
	256QAM	/	/	/	4.484	4M48W7D
	CP-QPSK	/	/	/	4.4848	4M48G7D
10	PI/2 BPSK	/	/	/	8.9281	8M93G7D
	QPSK	22.97	24.90	0.309	8.9274	8M93G7D
	16QAM	/	/	/	8.9468	8M95W7D
	64QAM	/	/	/	8.9302	8M93W7D
	256QAM	/	/	/	8.9402	8M94W7D
	CP-QPSK	/	/	/	9.2994	9M30G7D
15	PI/2 BPSK	/	/	/	13.429	13M4G7D
	QPSK	22.78	24.71	0.296	13.442	13M4G7D
	16QAM	/	/	/	13.439	13M4W7D
	64QAM	/	/	/	13.403	13M4W7D
	256QAM	/	/	/	13.439	13M4W7D
	CP-QPSK	/	/	/	14.124	14M1G7D
20	PI/2 BPSK	/	/	/	17.881	17M9G7D
	QPSK	22.92	24.85	0.305	17.889	17M9G7D
	16QAM	/	/	/	17.919	17M9W7D
	64QAM	/	/	/	17.925	17M9W7D
	256QAM	/	/	/	17.871	17M9W7D
	CP-QPSK	/	/	/	18.929	18M9G7D
30	PI/2 BPSK	22.77	24.70	0.295	28.605	28M6G7D
	QPSK	23.09	25.02	0.318	28.551	28M6G7D
	16QAM	21.63	23.56	0.227	28.586	28M6W7D
	64QAM	20.12	22.05	0.160	28.572	28M6W7D
	256QAM	17.93	19.86	0.097	28.582	28M6W7D
	CP-QPSK	/	/	/	28.596	28M6G7D



n77(3450-3550MHz)PC2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.837	17M8G7D
	QPSK	26.39	29.04	0.802	17.826	17M8G7D
	16QAM	/	/	/	17.887	17M9W7D
	64QAM	/	/	/	17.838	17M8W7D
	256QAM	/	/	/	17.826	17M8W7D
	CP-QPSK	/	/	/	17.849	17M9G7D
30	PI/2 BPSK	/	/	/	26.779	26M8G7D
	QPSK	26.61	29.26	0.843	26.83	26M8G7D
	16QAM	/	/	/	26.842	26M8W7D
	64QAM	/	/	/	26.789	26M8W7D
	256QAM	/	/	/	26.872	26M9W7D
	CP-QPSK	/	/	/	26.807	26M8G7D
40	PI/2 BPSK	/	/	/	35.738	35M7G7D
	QPSK	26.61	29.26	0.843	35.743	35M7G7D
	16QAM	/	/	/	35.775	35M8W7D
	64QAM	/	/	/	35.803	35M8W7D
	256QAM	/	/	/	35.752	35M8W7D
	CP-QPSK	/	/	/	35.681	35M7G7D
60	PI/2 BPSK	/	/	/	57.85	57M9G7D
	QPSK	26.25	28.90	0.776	57.814	57M8G7D
	16QAM	/	/	/	57.759	57M8W7D
	64QAM	/	/	/	57.851	57M9W7D
	256QAM	/	/	/	57.812	57M8W7D
	CP-QPSK	/	/	/	57.784	57M8G7D
80	PI/2 BPSK	/	/	/	76.998	77M0G7D
	QPSK	26.10	28.75	0.750	77.084	77M1G7D
	16QAM	/	/	/	77.196	77M2W7D
	64QAM	/	/	/	77.12	77M1W7D
	256QAM	/	/	/	77.01	77M0W7D
	CP-QPSK	/	/	/	77.15	77M2G7D
100	PI/2 BPSK	26.15	28.80	0.759	96.292	96M3G7D
	QPSK	26.67	29.32	0.855	96.342	96M3G7D
	16QAM	25.09	27.74	0.594	96.25	96M3W7D



	64QAM	23.75	26.40	0.437	96.369	96M4W7D
	256QAM	21.46	24.11	0.258	96.144	96M1W7D
	CP-QPSK	/	/	/	96.242	96M2G7D

n77(3700-3980MHz)PC2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.846	17M9G7D
	QPSK	25.58	28.23	0.665	17.845	17M9G7D
	16QAM	/	/	/	17.893	17M9W7D
	64QAM	/	/	/	17.822	17M8W7D
	256QAM	/	/	/	17.826	17M8W7D
	CP-QPSK	/	/	/	17.881	17M9G7D
30	PI/2 BPSK	/	/	/	26.782	26M8G7D
	QPSK	25.43	28.08	0.643	26.797	26M8G7D
	16QAM	/	/	/	26.882	26M9W7D
	64QAM	/	/	/	26.829	26M8W7D
	256QAM	/	/	/	26.812	26M8W7D
	CP-QPSK	/	/	/	26.825	26M8G7D
40	PI/2 BPSK	/	/	/	35.774	35M8G7D
	QPSK	25.55	28.20	0.661	35.768	35M8G7D
	16QAM	/	/	/	35.797	35M8W7D
	64QAM	/	/	/	35.769	35M8W7D
	256QAM	/	/	/	35.751	35M8W7D
	CP-QPSK	/	/	/	35.671	35M7G7D
60	PI/2 BPSK	/	/	/	57.893	57M9G7D
	QPSK	25.47	28.12	0.649	57.839	57M8G7D
	16QAM	/	/	/	57.889	57M9W7D
	64QAM	/	/	/	57.884	57M9W7D
	256QAM	/	/	/	57.923	57M9W7D
	CP-QPSK	/	/	/	57.78	57M8G7D
	CP-16QAM	/	/	/	77.072	77M1G7D
	CP-64QAM	/	/	/	77.126	77M1G7D
	CP-256QAM	/	/	/	77.278	77M3W7D
80	PI/2 BPSK	/	/	/	77.139	77M1W7D



	QPSK	25.47	28.12	0.649	76.922	76M9W7D
	16QAM	/	/	/	77.081	77M1G7D
	64QAM	/	/	/	96.367	96M4G7D
	256QAM	/	/	/	96.423	96M4G7D
	CP-QPSK	/	/	/	96.354	96M4W7D
100	PI/2 BPSK	25.85	28.50	0.708	96.347	96M4W7D
	QPSK	26.23	28.88	0.773	96.398	96M4W7D
	16QAM	24.83	27.48	0.560	96.292	96M3G7D
	64QAM	23.42	26.07	0.405	17.846	17M9G7D
	256QAM	21.15	23.80	0.240	17.845	17M9G7D
	CP-QPSK	/	/	/	17.893	17M9W7D

n77(3450-3550MHz)PC3						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.07	25.72	0.373	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.13	25.78	0.378	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.12	25.77	0.378	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.19	25.84	0.384	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.30	25.95	0.394	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	23.09	25.74	0.375	N/A	N/A
	QPSK	23.41	26.06	0.404	N/A	N/A
	16QAM	23.17	25.82	0.382	N/A	N/A
	64QAM	23.29	25.94	0.393	N/A	N/A
	256QAM	21.61	24.26	0.267	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

n77(3700-3800MHz)PC3						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.73	25.38	0.345	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.78	25.43	0.349	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.76	25.41	0.348	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A



	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.39	25.04	0.319	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.36	25.01	0.317	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	22.73	25.38	0.345	N/A	N/A
	QPSK	22.98	25.63	0.366	N/A	N/A
	16QAM	22.30	24.95	0.313	N/A	N/A
	64QAM	22.38	25.03	0.318	N/A	N/A
	256QAM	20.66	23.31	0.214	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

n78(3450-3550MHz)PC2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
30	PI/2 BPSK	/	/	/	26.779	26M8G7D
	QPSK	26.89	26.86	0.485	26.814	26M8G7D
	16QAM	/	/	/	26.849	26M9W7D
	64QAM	/	/	/	26.798	26M8W7D
	256QAM	/	/	/	26.828	26M8W7D
	CP-QPSK	/	/	/	26.803	26M8G7D
40	PI/2 BPSK	/	/	/	35.732	35M7G7D
	QPSK	26.96	26.93	0.493	35.731	35M7G7D
	16QAM	/	/	/	35.784	35M8W7D
	64QAM	/	/	/	35.782	35M8W7D
	256QAM	/	/	/	35.774	35M8W7D
	CP-QPSK	/	/	/	35.704	35M7G7D
50	PI/2 BPSK	/	/	/	45.707	45M7G7D



	QPSK	26.63	26.60	0.457	45.792	45M8G7D
	16QAM	/	/	/	45.804	45M8W7D
	64QAM	/	/	/	45.683	45M7W7D
	256QAM	/	/	/	45.781	45M8W7D
	CP-QPSK	/	/	/	45.7	45M7G7D
60	PI/2 BPSK	/	/	/	57.805	57M8G7D
	QPSK	26.65	26.62	0.459	57.772	57M8G7D
	16QAM	/	/	/	57.74	57M7W7D
	64QAM	/	/	/	57.925	57M9W7D
	256QAM	/	/	/	57.919	57M9W7D
	CP-QPSK	/	/	/	57.816	57M8G7D
70	PI/2 BPSK	/	/	/	64.295	64M3G7D
	QPSK	26.48	26.45	0.442	64.254	64M3G7D
	16QAM	/	/	/	64.213	64M2W7D
	64QAM	/	/	/	64.203	64M2W7D
	256QAM	/	/	/	64.197	64M2W7D
	CP-QPSK	/	/	/	64.215	64M2G7D
80	PI/2 BPSK	/	/	/	77.032	77M0G7D
	QPSK	26.46	26.43	0.440	77.055	77M1G7D
	16QAM	/	/	/	77.176	77M2W7D
	64QAM	/	/	/	77.062	77M1W7D
	256QAM	/	/	/	77.072	77M1W7D
	CP-QPSK	/	/	/	77.123	77M1G7D
90	PI/2 BPSK	/	/	/	86.664	86M7G7D
	QPSK	26.40	26.37	0.434	86.583	86M6G7D
	16QAM	/	/	/	86.767	86M8W7D
	64QAM	/	/	/	86.757	86M8W7D
	256QAM	/	/	/	86.705	86M7W7D
	CP-QPSK	/	/	/	86.706	86M7G7D
100	PI/2 BPSK	26.42	26.39	0.436	96.072	96M1G7D
	QPSK	27.05	27.02	0.504	96.262	96M3G7D
	16QAM	25.34	25.31	0.340	96.356	96M4W7D
	64QAM	23.93	23.90	0.245	96.208	96M2W7D
	256QAM	21.67	21.64	0.146	96.158	96M2W7D
	CP-QPSK	/	/	/	96.271	96M3G7D



n78(3700-3800MHz)PC2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
30	PI/2 BPSK	/	/	/	26.79	26M8G7D
	QPSK	26.34	26.31	0.428	26.806	26M8G7D
	16QAM	/	/	/	26.825	26M8W7D
	64QAM	/	/	/	26.8	26M8W7D
	256QAM	/	/	/	26.802	26M8W7D
	CP-QPSK	/	/	/	26.829	26M8G7D
40	PI/2 BPSK	/	/	/	35.747	35M8G7D
	QPSK	26.63	26.60	0.457	35.758	35M8G7D
	16QAM	/	/	/	35.808	35M8W7D
	64QAM	/	/	/	35.759	35M8W7D
	256QAM	/	/	/	35.751	35M8W7D
	CP-QPSK	/	/	/	35.724	35M7G7D
50	PI/2 BPSK	/	/	/	45.733	45M7G7D
	QPSK	26.13	26.10	0.407	45.854	45M9G7D
	16QAM	/	/	/	45.853	45M9W7D
	64QAM	/	/	/	45.777	45M8W7D
	256QAM	/	/	/	45.718	45M7W7D
	CP-QPSK	/	/	/	45.684	45M7G7D
60	PI/2 BPSK	/	/	/	57.839	57M8G7D
	QPSK	25.91	25.88	0.387	57.852	57M9G7D
	16QAM	/	/	/	57.762	57M8W7D
	64QAM	/	/	/	57.944	57M9W7D
	256QAM	/	/	/	57.888	57M9W7D
	CP-QPSK	/	/	/	57.879	57M9G7D
70	PI/2 BPSK	/	/	/	64.254	64M3G7D
	QPSK	26.05	26.02	0.400	64.337	64M3G7D
	16QAM	/	/	/	64.268	64M3W7D
	64QAM	/	/	/	64.238	64M2W7D
	256QAM	/	/	/	64.212	64M2W7D
	CP-QPSK	/	/	/	64.309	64M3G7D
80	PI/2 BPSK	/	/	/	77.079	77M1G7D
	QPSK	25.93	25.90	0.389	77.085	77M1G7D
	16QAM	/	/	/	77.17	77M2W7D



	64QAM	/	/	/	77.178	77M2W7D
	256QAM	/	/	/	77.082	77M1W7D
	CP-QPSK	/	/	/	77.184	77M2G7D
90	PI/2 BPSK	/	/	/	86.744	86M7G7D
	QPSK	25.80	25.77	0.378	86.59	86M6G7D
	16QAM	/	/	/	86.809	86M8W7D
	64QAM	/	/	/	86.579	86M6W7D
	256QAM	/	/	/	86.569	86M6W7D
	CP-QPSK	/	/	/	86.779	86M8G7D
100	PI/2 BPSK	25.75	25.72	0.373	96.314	96M3G7D
	QPSK	26.46	26.43	0.440	96.375	96M4G7D
	16QAM	24.58	24.55	0.285	96.349	96M4W7D
	64QAM	23.21	23.18	0.208	96.242	96M2W7D
	256QAM	20.93	20.90	0.123	96.287	96M3W7D
	CP-QPSK	/	/	/	96.153	96M2G7D

n78(3450-3550MHz)PC3						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.39	23.36	0.217	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.58	23.55	0.226	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.44	23.41	0.219	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A



	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.43	23.40	0.219	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.36	23.33	0.215	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.33	23.30	0.214	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.24	23.21	0.209	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	23.26	23.23	0.210	N/A	N/A
	QPSK	23.76	23.73	0.236	N/A	N/A
	16QAM	23.18	23.15	0.207	N/A	N/A
	64QAM	23.37	23.34	0.216	N/A	N/A
	256QAM	21.60	21.57	0.144	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



n78(3700-38000MHz)PC3						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.16	23.13	0.206	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.06	23.03	0.201	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.57	22.54	0.179	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.70	22.67	0.185	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.75	22.72	0.187	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.76	22.73	0.187	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.51	22.48	0.177	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	22.76	22.73	0.187	N/A	N/A
	QPSK	23.26	23.23	0.210	N/A	N/A
	16QAM	22.29	22.26	0.168	N/A	N/A
	64QAM	22.45	22.42	0.175	N/A	N/A
	256QAM	20.63	20.60	0.115	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 and Part 96 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

n2			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP $\leq$ 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit $\leq$ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	$\leq$ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	$\leq$ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n5			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP $\leq$ 7W	PASS
Peak-Average Ratio	N/A	N/A	N/A



Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §22.917(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm	PASS

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n48			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41(b)	Refer to section 2.1	PASS
Peak-Average Ratio	§96.39(g)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §96.41(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §96.41(e)	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §96.41(e)	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n66			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤1 W	PASS
Peak-Average Ratio	§27.50(d) (5)	Limit≤13 dB	PASS



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Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n77(3450~3550MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(K)(3)	EIRP ≤ 1 W	PASS
Peak-Average Ratio	§27.50(K)(4)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(l)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n77(3700~3980MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1 W	PASS



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Peak-Average Ratio	§27.50(j)(4)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(n)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".



Test detailed items/section required by FCC rules and results are as below:

Test Item	Test Engineer	Result	Method Determination /Remark
Transmitter Conducted Output Power and ERP/EIRP	Gan Jing	PASS	Nodeviation
Occupied Bandwidth	Gan Jing	PASS	Nodeviation
Frequency Stability	Gan Jing	PASS	Nodeviation
Peak to Average Radio	Gan Jing	PASS	Nodeviation
Conducted Spurious Emissions	Gan Jing	PASS	Nodeviation
Band Edge	Gan Jing	PASS	Nodeviation
Radiated Spurious Emissions	Li Hanbin Gao Jianrou	PASS	Nodeviation
Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016. Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. Note 3: The declared of product specification for EUT presented in the report are provided by manufacturer and the test laboratory is not responsible for the accuracy of the information. Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals. Note 5: According to the measured power of all frequency bands, The frequency band with the highest power as worst case was selected for the same NR frequency band for testing.			

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



2. Summary Test Results And Description

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for n2, the ERP of Mobile and portable stations are limited to 2 watts EIRP.

According to FCC section 22.913 (a)(5) for n5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (d)(4) for n66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

According to FCC section 27.50(j)(3) for n77(3700-3980MHz), n78(3700-3800MHz), mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

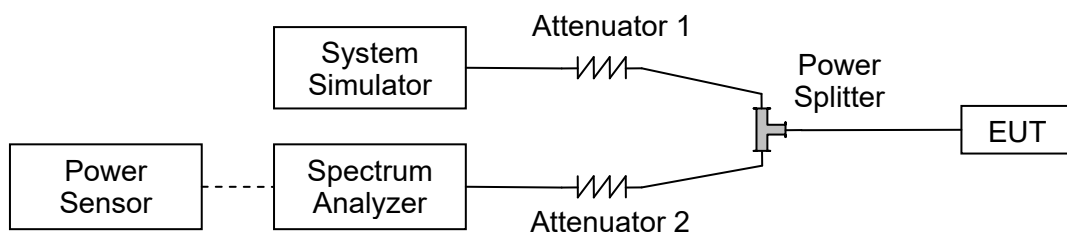
According to FCC section 27.50(k)(3) for n77, n78(3450-3550MHz), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(k)(3) for n77, n78(3450-3550MHz), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 96.41(b) for n48, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table as below. Paragraph

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD ¹	47	37

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

2.1.4. Conducted Output Power



n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				374000	376000	378000
Frequency (MHz)				1870	1880	1890
20	DFT-s-OFDM PI/2 BPSK	1	1	22.89	22.70	22.27
20		1	108	22.85	22.50	22.57
20		1	214	22.74	22.37	22.55
20		108	1	22.64	22.57	22.80
20		108	54	22.94	22.60	22.86
20		108	108	22.74	22.59	22.60
20		216	0	22.69	22.72	22.73
20	DFT-s-OFDM QPSK	1	1	23.30	23.35	23.26
20		1	108	23.20	23.17	23.14
20		1	214	23.09	23.07	23.02
20		108	1	22.90	22.95	22.84
20		108	54	22.79	22.59	22.74
20		108	108	22.58	22.45	22.29
20		216	0	22.50	22.59	22.46
20	DFT-s-OFDM 16QAM	1	1	21.86	21.65	21.26
20	DFT-s-OFDM 64QAM	1	1	20.44	20.17	19.78
20	DFT-s-OFDM 256QAM	1	1	18.21	18.00	17.59
20	CP-OFDM QPSK	1	1	21.44	21.17	20.76
20	CP-OFDM 16QAM	1	1	20.86	20.63	20.21
20	CP-OFDM 64QAM	1	1	19.26	18.93	18.59
20	CP-OFDM 256QAM	1	1	16.22	15.96	15.59
Channel				373000	376000	379000
Frequency (MHz)				1865	1880	1895
15	DFT-s-OFDM QPSK	1	1	23.16	22.60	22.41
Channel				372500	376000	379500
Frequency (MHz)				1862.5	1880	1897.5
10	DFT-s-OFDM QPSK	1	1	22.71	22.68	21.99
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
5	DFT-s-OFDM QPSK	1	1	22.96	22.39	21.83

n5						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.90	22.88	22.95
20		1	53	22.94	22.93	22.88
20		1	104	22.80	22.76	22.75
20		50	1	22.69	22.62	22.73
20		50	25	23.00	23.01	23.02
20		50	50	22.71	22.67	22.63
20		100	0	22.73	22.72	22.72
20	DFT-s-OFDM QPSK	1	1	22.97	23.06	22.94
20		1	53	22.90	22.95	22.92
20		1	104	22.82	22.80	22.72
20		50	1	22.17	22.16	22.15
20		50	25	21.73	21.85	21.96
20		50	50	21.85	21.77	21.73
20		100	0	21.78	21.94	21.82
20	DFT-s-OFDM 16QAM	1	1	22.12	22.16	22.17
20	DFT-s-OFDM 64QAM	1	1	20.52	20.63	20.63
20	DFT-s-OFDM 256QAM	1	1	18.39	18.43	18.46
20	CP-OFDM QPSK	1	1	21.62	21.71	21.63
20	CP-OFDM 16QAM	1	1	21.02	21.12	21.12
20	CP-OFDM 64QAM	1	1	19.19	19.29	19.26
20	CP-OFDM 256QAM	1	1	16.40	16.51	16.49
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.90	22.95	22.95
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.68	22.79	22.77
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.74	22.82	22.76

n48						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98
40	DFT-s-OFDM PI/2 BPSK	1	1	22.65	22.59	22.43
40		1	53	22.56	22.18	22.48
40		1	104	22.61	22.55	22.77
40		50	1	22.15	21.80	22.02
40		50	25	22.61	22.25	22.49
40		50	50	22.03	21.78	22.08
40		100	0	22.13	21.74	21.99
40	DFT-s-OFDM QPSK	1	1	22.63	22.78	22.73
40		1	53	22.42	22.18	22.45
40		1	104	22.63	22.55	22.51
40		50	1	21.75	21.89	21.76
40		50	25	21.60	21.50	21.55
40		50	50	21.43	21.27	21.57
40		100	0	21.64	21.25	21.52
40	DFT-s-OFDM 16QAM	1	1	21.56	21.45	21.37
40	DFT-s-OFDM 64QAM	1	1	20.25	20.05	19.97
40	DFT-s-OFDM 256QAM	1	1	17.94	17.79	17.74
40	CP-OFDM QPSK	1	1	21.21	21.02	20.96
40	CP-OFDM 16QAM	1	1	20.68	20.49	20.46
40	CP-OFDM 64QAM	1	1	18.76	18.62	18.58
40	CP-OFDM 256QAM	1	1	15.96	15.81	15.70
Channel				637668	641666	645666
Frequency (MHz)				3565.02	3624.99	3684.99
30	DFT-s-OFDM QPSK	1	1	22.59	22.35	22.49
Channel				637334	641666	646000
Frequency (MHz)				3560.01	3624.99	3690
20	DFT-s-OFDM QPSK	1	1	22.76	22.29	22.46
Channel				637000	641666	646332
Frequency (MHz)				3555	3624.99	3694.98
10	DFT-s-OFDM QPSK	1	1	22.59	22.27	22.66



n66						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.63	22.64	22.52
30		1	80	22.69	22.60	22.52
30		1	158	22.51	22.40	22.46
30		80	1	22.25	22.15	22.01
30		80	40	22.77	22.67	22.57
30		80	80	22.25	22.12	22.08
30		160	0	22.31	22.19	22.09
30	DFT-s-OFDM QPSK	1	1	23.07	23.09	23.05
30		1	80	22.72	22.69	22.61
30		1	158	22.57	22.50	22.60
30		80	1	21.71	21.75	21.69
30		80	40	21.53	21.56	21.58
30		80	80	21.70	21.65	21.63
30		160	0	21.60	21.65	21.52
30	DFT-s-OFDM 16QAM	1	1	21.58	21.63	21.50
30	DFT-s-OFDM 64QAM	1	1	20.12	20.12	19.96
30	DFT-s-OFDM 256QAM	1	1	17.93	17.92	17.79
30	CP-OFDM QPSK	1	1	21.11	21.19	21.10
30	CP-OFDM 16QAM	1	1	20.50	20.54	20.42
30	CP-OFDM 64QAM	1	1	18.81	18.81	18.65
30	CP-OFDM 256QAM	1	1	15.95	15.99	15.85
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
20	DFT-s-OFDM QPSK	1	1	22.92	22.88	22.91
Channel				344500	349000	353500
Frequency (MHz)				1722.5	1745	1767.5
15	DFT-s-OFDM QPSK	1	1	22.78	22.76	22.70
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
10	DFT-s-OFDM QPSK	1	1	22.90	22.97	22.56
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
5	DFT-s-OFDM QPSK	1	1	22.88	23.01	22.44



n77(3450MHz-3550MHz) (PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					633334	
Frequency (MHz)					3500.01	
100	DFT-s-OFDM PI/2 BPSK	1	1		26.15	
100		1	136		25.90	
100		1	271		25.83	
100		135	1		25.56	
100		135	67		26.06	
100		135	136		25.14	
100		270	0		25.51	
100	DFT-s-OFDM QPSK	1	1		26.67	
100		1	136		25.97	
100		1	271		25.87	
100		135	1		25.06	
100		135	67		26.03	
100		135	136		24.62	
100		270	0		25.01	
100	DFT-s-OFDM 16QAM	1	1		25.09	
100	DFT-s-OFDM 64QAM	1	1		23.75	
100	DFT-s-OFDM 256QAM	1	1		21.46	
100	CP-OFDM QPSK	1	1		24.59	
100	CP-OFDM 16QAM	1	1		24.11	
100	CP-OFDM 64QAM	1	1		22.29	
100	CP-OFDM 256QAM	1	1		19.53	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.10	25.98	25.97
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.25	26.18	26.07
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.61	26.59	26.32
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.61	26.39	26.00
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.39	26.33	25.90



n77(3550-3980MHz)(PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.26	25.28	25.85
100		1	136	25.47	25.53	25.39
100		1	271	25.32	25.62	25.82
100		135	1	25.17	24.84	25.20
100		135	67	25.51	25.61	25.55
100		135	136	24.79	24.83	25.17
100		270	0	24.93	25.17	25.18
100	DFT-s-OFDM QPSK	1	1	25.22	26.23	25.34
100		1	136	25.50	25.63	25.42
100		1	271	25.40	25.64	25.86
100		135	1	24.69	24.37	24.73
100		135	67	25.51	25.64	25.52
100		135	136	24.28	24.38	24.64
100		270	0	24.41	24.67	24.71
100	DFT-s-OFDM 16QAM	1	1	24.08	24.23	24.83
100	DFT-s-OFDM 64QAM	1	1	22.70	22.89	23.42
100	DFT-s-OFDM 256QAM	1	1	20.47	20.66	21.15
100	CP-OFDM QPSK	1	1	23.71	23.84	24.35
100	CP-OFDM 16QAM	1	1	23.27	23.37	23.88
100	CP-OFDM 64QAM	1	1	21.38	21.46	22.02
100	CP-OFDM 256QAM	1	1	18.53	18.67	19.14
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	25.27	25.45	25.47
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	25.45	25.47	25.34
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.50	25.55	25.42
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	25.20	25.43	25.28
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	25.30	25.58	25.47



n77(3450MHz-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					633334	
Frequency (MHz)					3500.01	
100	DFT-s-OFDM PI/2 BPSK	1	1		23.05	
100		1	136		22.76	
100		1	271		22.23	
100		135	1		23.09	
100		135	67		22.84	
100		135	136		22.21	
100		270	0		22.82	
100	DFT-s-OFDM QPSK	1	1		23.41	
100		1	136		23.19	
100		1	271		23.22	
100		135	1		22.95	
100		135	67		22.84	
100		135	136		22.19	
100		270	0		22.84	
100	DFT-s-OFDM 16QAM	1	1		23.17	
100	DFT-s-OFDM 64QAM	1	1		23.29	
100	DFT-s-OFDM 256QAM	1	1		21.61	
100	CP-OFDM QPSK	1	1		23.32	
100	CP-OFDM 16QAM	1	1		23.37	
100	CP-OFDM 64QAM	1	1		22.43	
100	CP-OFDM 256QAM	1	1		19.62	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.30	23.19	23.09
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	22.94	22.84	23.19
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.12	23.03	22.72
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.13	22.98	22.45
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.07	22.97	22.36



n77(3550-3980MHz)(PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	22.32	22.30	22.07
100		1	136	22.39	22.47	21.65
100		1	271	22.30	22.01	22.49
100		135	1	22.73	22.25	21.82
100		135	67	22.49	22.56	21.67
100		135	136	22.17	22.05	22.03
100		270	0	22.44	22.51	21.82
100	DFT-s-OFDM QPSK	1	1	22.90	22.98	22.97
100		1	136	22.72	22.83	22.63
100		1	271	22.56	22.59	22.56
100		135	1	22.39	22.46	22.37
100		135	67	22.36	22.35	22.35
100		135	136	22.17	22.05	22.04
100		270	0	22.35	22.25	22.38
100	DFT-s-OFDM 16QAM	1	1	22.28	22.30	22.05
100	DFT-s-OFDM 64QAM	1	1	22.31	22.38	22.06
100	DFT-s-OFDM 256QAM	1	1	20.66	20.65	20.39
100	CP-OFDM QPSK	1	1	22.36	22.34	22.10
100	CP-OFDM 16QAM	1	1	22.39	22.35	22.11
100	CP-OFDM 64QAM	1	1	21.50	21.48	21.23
100	CP-OFDM 256QAM	1	1	18.70	18.65	18.41
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	22.36	22.27	21.83
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	22.39	22.38	21.52
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	22.74	22.76	22.21
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	22.78	22.69	22.30
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	22.68	22.73	22.41



n78(3450MHz-3550MHz) (PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	26.42	/
100		1	136	/	26.40	/
100		1	271	/	25.87	/
100		135	1	/	25.93	/
100		135	67	/	25.90	/
100		135	136	/	25.41	/
100		270	0	/	25.85	/
100	DFT-s-OFDM QPSK	1	1	/	27.05	/
100		1	136	/	26.40	/
100		1	271	/	25.83	/
100		135	1	/	25.36	/
100		135	67	/	26.42	/
100		135	136	/	24.88	/
100		270	0	/	25.33	/
100	DFT-s-OFDM 16QAM	1	1	/	25.34	/
100	DFT-s-OFDM 64QAM	1	1	/	23.93	/
100	DFT-s-OFDM 256QAM	1	1	/	21.67	/
100	CP-OFDM QPSK	1	1	/	24.87	/
100	CP-OFDM 16QAM	1	1	/	24.38	/
100	CP-OFDM 64QAM	1	1	/	22.54	/
100	CP-OFDM 256QAM	1	1	/	19.69	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	26.36	26.39	26.40
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.39	26.43	26.46
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	26.47	26.48	26.36
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.58	26.65	26.55
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	26.63	26.48	26.53
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98



40	DFT-s-OFDM QPSK	1	1	26.96	26.93	26.67
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.89	26.86	26.35
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.07	25.83	24.58

n78(3700-3800MHz)(PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.66	/
100		1	136	/	25.75	/
100		1	271	/	25.61	/
100		135	1	/	25.61	/
100		135	67	/	25.71	/
100		135	136	/	24.98	/
100		270	0	/	25.18	/
100		1	1	/	26.46	/
100	DFT-s-OFDM QPSK	1	136	/	25.66	/
100		1	271	/	25.62	/
100		135	1	/	24.98	/
100		135	67	/	25.70	/
100		135	136	/	24.47	/
100		270	0	/	24.68	/
100	DFT-s-OFDM 16QAM	1	1	/	24.58	/
100	DFT-s-OFDM 64QAM	1	1	/	23.21	/
100	DFT-s-OFDM 256QAM	1	1	/	20.93	/
100	CP-OFDM QPSK	1	1	/	24.10	/
100	CP-OFDM 16QAM	1	1	/	23.76	/
100	CP-OFDM 64QAM	1	1	/	21.79	/
100	CP-OFDM 256QAM	1	1	/	18.98	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	25.64	25.66	25.80
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.68	25.86	25.93
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	25.76	25.97	26.05



Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	25.65	25.90	25.91
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.80	26.13	25.88
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	26.17	26.63	26.19
Channel				647668	650000	652332
Frequency (MHz)				3715.02	3750	3784.98
30	DFT-s-OFDM QPSK	1	1	26.03	26.34	26.08
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.61	25.70	25.33

n78(3450MHz-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.26	/
100		1	136	/	22.80	/
100		1	271	/	22.22	/
100		135	1	/	23.05	/
100		135	67	/	22.83	/
100		135	136	/	22.29	/
100		270	0	/	22.83	/
100		1	1	/	23.76	/
100	DFT-s-OFDM QPSK	1	136	/	22.82	/
100		1	271	/	22.20	/
100		135	1	/	23.06	/
100		135	67	/	22.84	/
100		135	136	/	22.31	/
100		270	0	/	22.82	/
100	DFT-s-OFDM 16QAM	1	1	/	23.18	/
100	DFT-s-OFDM 64QAM	1	1	/	23.37	/
100	DFT-s-OFDM 256QAM	1	1	/	21.60	/
100	CP-OFDM QPSK	1	1	/	23.26	/
100	CP-OFDM 16QAM	1	1	/	23.30	/
100	CP-OFDM 64QAM	1	1	/	22.40	/
100	CP-OFDM 256QAM	1	1	/	19.58	/
Channel				633000	633334	633666



Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	23.24	23.21	23.20
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.33	23.24	23.11
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	23.36	23.19	23.04
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.43	23.29	23.12
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	23.44	23.19	22.94
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.23	23.58	23.09
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.21	23.39	22.65
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.57	23.21	23.21

n78(3700-3800MHz)(PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	22.36	/
100		1	136	/	22.44	/
100		1	271	/	22.42	/
100		135	1	/	22.76	/
100		135	67	/	22.50	/
100		135	136	/	22.26	/
100		270	0	/	22.47	/
100		1	1	/	23.26	/
100	DFT-s-OFDM QPSK	1	136	/	22.44	/
100		1	271	/	22.40	/
100		135	1	/	22.49	/
100		135	67	/	22.41	/
100		135	136	/	22.27	/
100		270	0	/	22.38	/
100	DFT-s-OFDM 16QAM	1	1	/	22.29	/
100	DFT-s-OFDM	1	1	/	22.45	/



	64QAM					
100	DFT-s-OFDM 256QAM	1	1	/	20.63	/
100	CP-OFDM QPSK	1	1	/	22.39	/
100	CP-OFDM 16QAM	1	1	/	22.41	/
100	CP-OFDM 64QAM	1	1	/	21.53	/
100	CP-OFDM 256QAM	1	1	/	18.70	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	22.34	22.48	22.51
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	22.54	22.68	22.76
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	22.42	22.75	22.72
Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	22.57	22.70	22.70
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	22.56	22.57	22.57
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	22.97	22.75	23.06
Channel				647668	650000	652332
Frequency (MHz)				3715.02	3750	3784.98
30	DFT-s-OFDM QPSK	1	1	22.85	23.16	22.78
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	22.70	22.92	22.65



B5_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.91	22.88	22.64
20		1	53	22.92	22.78	22.79
20		1	104	22.93	22.65	22.71
20		50	1	22.44	22.37	22.17
20		50	25	22.99	22.85	22.65
20		50	50	22.40	22.29	22.23
20		100	0	22.48	22.33	22.13
20	DFT-s-OFDM QPSK	1	1	23.06	23.02	22.82
20		1	53	22.88	22.80	22.78
20		1	104	23.04	22.62	22.67
20		50	1	22.00	21.86	21.62
20		50	25	22.97	22.83	22.65
20		50	50	21.95	21.78	21.71
20		100	0	21.94	21.87	21.67
20	DFT-s-OFDM 16QAM	1	1	22.01	21.98	21.77
20	DFT-s-OFDM 64QAM	1	1	20.44	20.40	20.15
20	DFT-s-OFDM 256QAM	1	1	18.69	18.64	18.44
20	CP-OFDM QPSK	1	1	21.46	21.46	21.24
20	CP-OFDM 16QAM	1	1	20.86	20.87	20.60
20	CP-OFDM 64QAM	1	1	19.61	19.60	19.32
20	CP-OFDM 256QAM	1	1	16.72	16.67	16.45
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.91	22.82	22.58
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.69	22.77	22.52
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.70	22.59	22.48



B13_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.97	22.93	22.66
20		1	53	22.93	22.82	22.61
20		1	104	22.93	22.65	22.76
20		50	1	22.48	22.43	22.16
20		50	25	23.01	22.88	22.71
20		50	50	22.46	22.29	22.24
20		100	0	22.46	22.37	22.13
20	DFT-s-OFDM QPSK	1	1	22.96	22.93	22.63
20		1	53	23.06	22.97	22.70
20		1	104	23.04	22.73	22.76
20		50	1	21.98	21.89	21.70
20		50	25	22.99	22.87	22.67
20		50	50	21.97	21.80	21.73
20		100	0	22.00	21.86	21.69
20	DFT-s-OFDM 16QAM	1	1	21.95	22.04	21.81
20	DFT-s-OFDM 64QAM	1	1	20.38	20.44	20.20
20	DFT-s-OFDM 256QAM	1	1	18.63	18.69	18.45
20	CP-OFDM QPSK	1	1	21.42	21.49	21.34
20	CP-OFDM 16QAM	1	1	20.84	20.88	20.58
20	CP-OFDM 64QAM	1	1	19.50	19.57	19.34
20	CP-OFDM 256QAM	1	1	16.66	16.67	16.44
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.94	22.99	22.58
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.88	22.86	22.55
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.70	22.68	22.56



B66_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.95	23.10	22.80
20		1	53	22.92	22.64	22.65
20		1	104	23.15	22.76	22.93
20		50	1	22.40	22.39	22.32
20		50	25	22.96	22.72	22.70
20		50	50	22.67	22.17	22.22
20		100	0	22.49	22.28	22.31
20	DFT-s-OFDM QPSK	1	1	23.20	23.07	22.83
20		1	53	23.01	22.82	22.73
20		1	104	22.90	22.74	22.89
20		50	1	21.86	21.94	21.83
20		50	25	22.89	22.73	22.76
20		50	50	22.10	21.64	21.76
20		100	0	21.98	21.84	21.79
20	DFT-s-OFDM 16QAM	1	1	22.05	22.18	21.85
20	DFT-s-OFDM 64QAM	1	1	20.43	20.55	20.24
20	DFT-s-OFDM 256QAM	1	1	18.76	18.89	18.60
20	CP-OFDM QPSK	1	1	21.45	21.66	21.38
20	CP-OFDM 16QAM	1	1	20.90	21.03	20.75
20	CP-OFDM 64QAM	1	1	19.67	19.77	19.51
20	CP-OFDM 256QAM	1	1	16.82	16.93	16.64
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.08	22.93	22.79
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.84	22.82	22.49
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.82	22.57	22.52



B2_n5 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.96	22.96	22.98
20		1	53	22.93	23.01	23.00
20		1	104	22.94	22.86	22.78
20		50	1	22.82	22.79	22.75
20		50	25	22.99	23.01	23.02
20		50	50	22.81	22.71	22.73
20		100	0	22.86	22.85	22.86
20	DFT-s-OFDM QPSK	1	1	23.01	23.03	22.99
20		1	53	22.98	23.00	22.98
20		1	104	22.95	22.84	22.32
20		50	1	22.37	22.29	22.31
20		50	25	23.00	23.01	23.02
20		50	50	22.30	22.28	22.26
20		100	0	22.39	22.36	22.34
20	DFT-s-OFDM 16QAM	1	1	22.21	22.29	22.31
20	DFT-s-OFDM 64QAM	1	1	20.59	20.60	20.69
20	DFT-s-OFDM 256QAM	1	1	18.93	18.94	19.03
20	CP-OFDM QPSK	1	1	21.74	21.63	21.78
20	CP-OFDM 16QAM	1	1	21.07	21.10	21.17
20	CP-OFDM 64QAM	1	1	19.86	19.82	19.88
20	CP-OFDM 256QAM	1	1	17.00	17.00	17.11
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.96	23.01	22.98
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.75	22.78	22.88
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.83	22.90	22.94



B48_n5						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.89	22.88	22.97
20		1	53	22.97	22.97	22.90
20		1	104	22.85	22.78	22.71
20		50	1	22.71	22.70	22.75
20		50	25	22.95	23.01	23.00
20		50	50	22.72	22.69	22.66
20		100	0	22.77	22.77	22.78
20	DFT-s-OFDM QPSK	1	1	23.01	23.03	23.00
20		1	53	22.95	22.96	22.98
20		1	104	22.82	22.81	22.55
20		50	1	22.26	22.22	22.28
20		50	25	22.98	23.01	22.99
20		50	50	22.21	22.18	22.18
20		100	0	22.31	22.28	22.29
20	DFT-s-OFDM 16QAM	1	1	22.13	22.23	22.25
20	DFT-s-OFDM 64QAM	1	1	20.53	20.61	20.62
20	DFT-s-OFDM 256QAM	1	1	18.89	18.99	18.95
20	CP-OFDM QPSK	1	1	21.60	21.68	21.72
20	CP-OFDM 16QAM	1	1	21.02	21.08	21.06
20	CP-OFDM 64QAM	1	1	19.74	19.84	19.80
20	CP-OFDM 256QAM	1	1	16.93	17.00	17.00
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.99	22.96	23.02
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.70	22.72	22.84
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.76	22.83	22.78



B66_n5						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.96	22.95	23.01
20		1	53	22.97	22.99	23.02
20		1	104	22.94	22.89	22.86
20		50	1	22.85	22.81	22.83
20		50	25	23.01	22.99	23.02
20		50	50	22.86	22.79	22.91
20		100	0	22.82	22.90	22.90
20		1	1	22.94	22.96	23.02
20	DFT-s-OFDM QPSK	1	53	23.01	23.04	23.02
20		1	104	22.97	23.01	22.23
20		50	1	22.43	22.39	22.34
20		50	25	23.02	22.97	23.01
20		50	50	22.36	22.29	22.43
20		100	0	22.33	22.41	22.42
20	DFT-s-OFDM 16QAM	1	1	22.30	22.26	22.28
20	DFT-s-OFDM 64QAM	1	1	20.67	20.67	20.63
20	DFT-s-OFDM 256QAM	1	1	19.02	19.00	19.00
20	CP-OFDM QPSK	1	1	21.83	21.74	21.72
20	CP-OFDM 16QAM	1	1	21.12	21.09	21.09
20	CP-OFDM 64QAM	1	1	19.89	19.91	19.86
20	CP-OFDM 256QAM	1	1	17.08	17.04	17.04
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.95	23.03	23.01
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.77	22.81	22.82
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.84	22.94	22.88



B2_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.77	23.01	22.75
30		1	80	22.87	22.67	22.81
30		1	158	22.90	22.96	23.01
30		80	1	22.44	22.55	22.52
30		80	40	22.97	22.88	22.88
30		80	80	22.71	22.39	22.51
30		160	0	22.56	22.53	22.54
30	DFT-s-OFDM QPSK	1	1	22.96	23.07	22.76
30		1	80	22.88	22.73	22.88
30		1	158	23.01	22.94	23.02
30		80	1	21.93	22.02	22.03
30		80	40	22.96	22.90	22.90
30		80	80	22.17	21.92	21.94
30		160	0	22.08	22.07	22.06
30	DFT-s-OFDM 16QAM	1	1	21.85	22.28	21.78
30	DFT-s-OFDM 64QAM	1	1	20.20	20.49	20.13
30	DFT-s-OFDM 256QAM	1	1	18.70	18.88	18.55
30	CP-OFDM QPSK	1	1	21.34	21.50	21.17
30	CP-OFDM 16QAM	1	1	20.73	20.89	20.64
30	CP-OFDM 64QAM	1	1	19.51	19.68	19.39
30	CP-OFDM 256QAM	1	1	16.73	17.05	16.74
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.94	23.03	23.00
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.79	22.93	22.64
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.29	22.75	22.41
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.76	22.56	22.65



B5_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.73	22.76	22.61
30		1	80	22.70	22.57	22.62
30		1	158	22.62	22.57	22.58
30		80	1	22.30	22.28	22.13
30		80	40	22.89	22.70	22.69
30		80	80	22.39	22.27	22.25
30		160	0	22.41	22.21	22.26
30	DFT-s-OFDM QPSK	1	1	22.73	22.90	22.79
30		1	80	22.78	22.75	22.60
30		1	158	22.64	22.59	22.70
30		80	1	21.83	21.75	21.62
30		80	40	22.87	22.70	22.68
30		80	80	21.88	21.74	21.70
30		160	0	21.82	21.74	21.74
30	DFT-s-OFDM 16QAM	1	1	21.89	21.82	21.73
30	DFT-s-OFDM 64QAM	1	1	20.27	20.33	20.11
30	DFT-s-OFDM 256QAM	1	1	18.54	18.52	18.39
30	CP-OFDM QPSK	1	1	21.35	21.26	21.12
30	CP-OFDM 16QAM	1	1	20.64	20.64	20.52
30	CP-OFDM 64QAM	1	1	19.36	19.39	19.27
30	CP-OFDM 256QAM	1	1	16.55	16.35	16.43
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.71	22.12	22.05
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.87	22.27	22.26
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.52	22.45	22.41
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.49	22.45	22.36



B13_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.81	22.64	22.53
30		1	80	22.70	22.65	22.47
30		1	158	22.69	22.47	22.47
30		80	1	22.35	22.21	22.05
30		80	40	22.80	22.57	22.56
30		80	80	22.39	22.12	22.09
30		160	0	22.31	22.12	22.10
30	DFT-s-OFDM QPSK	1	1	22.73	22.74	22.60
30		1	80	22.79	22.82	22.74
30		1	158	22.66	22.43	22.35
30		80	1	21.76	21.68	21.54
30		80	40	22.81	22.60	22.51
30		80	80	22.70	21.64	21.60
30		160	0	21.88	21.63	21.54
30	DFT-s-OFDM 16QAM	1	1	21.79	21.75	21.58
30	DFT-s-OFDM 64QAM	1	1	20.15	20.10	19.95
30	DFT-s-OFDM 256QAM	1	1	18.47	18.48	18.32
30	CP-OFDM QPSK	1	1	21.19	21.19	20.94
30	CP-OFDM 16QAM	1	1	20.57	20.55	20.43
30	CP-OFDM 64QAM	1	1	19.28	19.31	19.18
30	CP-OFDM 256QAM	1	1	16.45	16.44	16.31
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.27	22.84	22.62
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.44	22.60	22.44
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.69	22.49	22.40
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.48	22.48	22.48



B48_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	22.52	22.30	22.30
30		1	80	22.61	22.24	22.27
30		1	158	22.53	22.17	22.13
30		80	1	22.25	21.69	21.59
30		80	40	22.69	22.23	22.17
30		80	80	22.19	21.57	21.65
30		160	0	22.25	21.68	21.58
30	DFT-s-OFDM QPSK	1	1	22.70	22.41	22.41
30		1	80	22.61	22.28	22.31
30		1	158	22.52	22.16	22.33
30		80	1	21.70	21.21	21.08
30		80	40	22.66	22.27	22.14
30		80	80	21.70	21.12	21.12
30		160	0	21.75	21.17	21.02
30	DFT-s-OFDM 16QAM	1	1	21.65	21.41	21.33
30	DFT-s-OFDM 64QAM	1	1	20.06	19.77	19.72
30	DFT-s-OFDM 256QAM	1	1	18.35	17.52	17.48
30	CP-OFDM QPSK	1	1	21.03	20.83	20.73
30	CP-OFDM 16QAM	1	1	20.42	20.17	20.10
30	CP-OFDM 64QAM	1	1	19.21	18.94	18.85
30	CP-OFDM 256QAM	1	1	16.36	15.48	15.50
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.69	22.49	22.34
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.50	22.41	22.29
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.36	22.31	22.29
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.36	22.32	22.23



B2_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.59	/
100		1	136	/	23.04	/
100		1	271	/	22.66	/
100		135	1	/	23.39	/
100		135	67	/	23.15	/
100		135	136	/	22.65	/
100		270	0	/	23.14	/
100		1	1	/	24.08	/
100	DFT-s-OFDM QPSK	1	136	/	23.07	/
100		1	271	/	22.63	/
100		135	1	/	23.34	/
100		135	67	/	23.16	/
100		135	136	/	22.59	/
100		270	0	/	23.13	/
100	DFT-s-OFDM 16QAM	1	1	/	23.57	/
100	DFT-s-OFDM 64QAM	1	1	/	23.56	/
100	DFT-s-OFDM 256QAM	1	1	/	21.94	/
100	CP-OFDM QPSK	1	1	/	23.55	/
100	CP-OFDM 16QAM	1	1	/	23.70	/
100	CP-OFDM 64QAM	1	1	/	23.21	/
100	CP-OFDM 256QAM	1	1	/	20.00	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.55	23.51	23.35
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.76	23.56	23.44
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	24.05	23.89	23.37
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	24.06	23.71	23.02
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.96	23.58	22.85



B5_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	22.98	/
100		1	136	/	22.64	/
100		1	271	/	22.29	/
100		135	1	/	22.70	/
100		135	67	/	22.73	/
100		135	136	/	22.18	/
100		270	0	/	22.70	/
100	DFT-s-OFDM QPSK	1	1	/	23.45	/
100		1	136	/	22.61	/
100		1	271	/	22.26	/
100		135	1	/	22.77	/
100		135	67	/	22.68	/
100		135	136	/	22.09	/
100		270	0	/	22.67	/
100	DFT-s-OFDM 16QAM	1	1	/	22.96	/
100	DFT-s-OFDM 64QAM	1	1	/	22.98	/
100	DFT-s-OFDM 256QAM	1	1	/	21.27	/
100	CP-OFDM QPSK	1	1	/	23.00	/
100	CP-OFDM 16QAM	1	1	/	23.13	/
100	CP-OFDM 64QAM	1	1	/	22.52	/
100	CP-OFDM 256QAM	1	1	/	19.39	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	22.98	22.93	22.82
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.13	23.04	22.88
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	22.96	23.26	22.95
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.34	23.14	22.69
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.24	23.14	22.55



B13_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.02	/
100		1	136	/	22.63	/
100		1	271	/	22.25	/
100		135	1	/	22.83	/
100		135	67	/	22.70	/
100		135	136	/	22.20	/
100		270	0	/	22.70	/
100	DFT-s-OFDM QPSK	1	1	/	23.40	/
100		1	136	/	22.67	/
100		1	271	/	22.26	/
100		135	1	/	22.79	/
100		135	67	/	22.75	/
100		135	136	/	22.22	/
100		270	0	/	22.63	/
100	DFT-s-OFDM 16QAM	1	1	/	22.93	/
100	DFT-s-OFDM 64QAM	1	1	/	22.98	/
100	DFT-s-OFDM 256QAM	1	1	/	21.27	/
100	CP-OFDM QPSK	1	1	/	22.94	/
100	CP-OFDM 16QAM	1	1	/	23.06	/
100	CP-OFDM 64QAM	1	1	/	22.54	/
100	CP-OFDM 256QAM	1	1	/	19.43	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	22.99	22.98	22.82
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.18	22.97	22.90
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	23.34	23.28	22.97
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	23.38	23.28	22.64
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.29	23.13	22.51



B66_n77(3450-3550MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.60	/
100		1	136	/	23.11	/
100		1	271	/	22.58	/
100		135	1	/	23.40	/
100		135	67	/	23.17	/
100		135	136	/	22.63	/
100		270	0	/	23.14	/
100	DFT-s-OFDM QPSK	1	1	/	24.04	/
100		1	136	/	23.14	/
100		1	271	/	22.66	/
100		135	1	/	23.36	/
100		135	67	/	23.16	/
100		135	136	/	22.63	/
100		270	0	/	23.13	/
100	DFT-s-OFDM 16QAM	1	1	/	23.60	/
100	DFT-s-OFDM 64QAM	1	1	/	23.70	/
100	DFT-s-OFDM 256QAM	1	1	/	21.99	/
100	CP-OFDM QPSK	1	1	/	23.55	/
100	CP-OFDM 16QAM	1	1	/	23.79	/
100	CP-OFDM 64QAM	1	1	/	23.18	/
100	CP-OFDM 256QAM	1	1	/	20.06	/
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	23.54	23.50	23.40
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	23.73	23.54	23.46
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	24.01	23.92	22.69
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	24.03	23.71	23.06
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	23.98	23.58	22.81



B2_n77(3700-3980MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	22.70	22.64	22.58
100		1	136	22.72	22.92	22.17
100		1	271	22.67	22.51	23.03
100		135	1	23.03	22.60	22.36
100		135	67	22.79	22.93	22.28
100		135	136	22.53	22.48	22.60
100		270	0	22.71	22.91	22.44
100	DFT-s-OFDM QPSK	1	1	22.65	22.54	22.53
100		1	136	22.73	22.85	22.14
100		1	271	22.70	22.52	23.01
100		135	1	23.11	22.57	22.36
100		135	67	22.76	22.93	22.22
100		135	136	22.47	22.49	22.52
100		270	0	22.77	22.91	22.44
100	DFT-s-OFDM 16QAM	1	1	22.74	22.61	22.55
100	DFT-s-OFDM 64QAM	1	1	22.84	22.83	22.76
100	DFT-s-OFDM 256QAM	1	1	21.05	20.90	20.93
100	CP-OFDM QPSK	1	1	22.68	22.60	22.56
100	CP-OFDM 16QAM	1	1	22.84	22.81	22.68
100	CP-OFDM 64QAM	1	1	22.33	22.18	22.18
100	CP-OFDM 256QAM	1	1	19.10	19.09	18.95
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	22.68	22.58	22.33
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	22.72	22.70	22.11
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	22.73	23.10	22.66
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	22.68	23.09	22.78
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	23.00	23.09	22.85



B5_n77(3650-3700MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				644668	645000	645334
Frequency (MHz)				3670.02	3675	3680.01
40	DFT-s-OFDM PI/2 BPSK	1	1	22.15	22.10	22.28
40		1	53	22.47	22.51	21.74
40		1	104	22.46	22.17	22.29
40		50	1	22.58	22.19	21.99
40		50	25	22.49	22.53	21.85
40		50	50	22.29	22.09	21.99
40		100	0	22.44	22.51	22.01
40	DFT-s-OFDM QPSK	1	1	22.10	22.10	22.28
40		1	53	22.42	22.45	21.72
40		1	104	22.43	22.12	22.31
40		50	1	22.70	22.18	21.93
40		50	25	22.48	22.44	21.83
40		50	50	22.30	22.13	22.02
40		100	0	22.39	22.40	22.03
40	DFT-s-OFDM 16QAM	1	1	22.15	22.16	22.31
40	DFT-s-OFDM 64QAM	1	1	22.17	22.30	22.45
40	DFT-s-OFDM 256QAM	1	1	20.53	20.50	20.64
40	CP-OFDM QPSK	1	1	22.12	22.21	22.29
40	CP-OFDM 16QAM	1	1	22.27	22.30	22.47
40	CP-OFDM 64QAM	1	1	21.81	21.78	21.97
40	CP-OFDM 256QAM	1	1	18.52	18.55	18.74
Channel				644334	645000	645666
Frequency (MHz)				3665.01	3675	3684.99
30	DFT-s-OFDM QPSK	1	1	22.13	22.24	21.96
Channel				644000	645000	646000
Frequency (MHz)				3660	3675	3690
20	DFT-s-OFDM QPSK	1	1	22.16	22.35	21.82



B13_n77(3700-3980MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	22.11	22.13	22.29
100		1	136	22.46	22.44	21.74
100		1	271	22.47	22.18	22.30
100		135	1	22.59	22.19	21.98
100		135	67	22.50	22.47	21.86
100		135	136	22.34	22.12	22.01
100		270	0	22.47	22.42	22.04
100	DFT-s-OFDM QPSK	1	1	22.15	22.14	22.27
100		1	136	22.74	22.46	21.73
100		1	271	22.49	22.12	22.30
100		135	1	22.26	22.15	21.94
100		135	67	22.49	22.50	21.87
100		135	136	22.31	22.14	22.01
100		270	0	22.44	22.50	22.01
100	DFT-s-OFDM 16QAM	1	1	22.09	22.15	22.35
100	DFT-s-OFDM 64QAM	1	1	22.26	22.30	22.44
100	DFT-s-OFDM 256QAM	1	1	20.48	20.52	20.69
100	CP-OFDM QPSK	1	1	22.16	22.24	22.38
100	CP-OFDM 16QAM	1	1	22.24	22.31	22.49
100	CP-OFDM 64QAM	1	1	21.73	21.80	21.94
100	CP-OFDM 256QAM	1	1	18.56	18.58	18.69
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	22.18	22.25	21.97
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	22.19	22.31	21.85
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	22.67	22.71	22.26
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	22.53	22.65	22.42
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	22.37	22.69	22.49



B66_n77(3700-3980MHz) (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	22.67	22.63	22.57
100		1	136	22.72	22.87	22.18
100		1	271	22.70	22.52	22.98
100		135	1	23.03	22.57	22.37
100		135	67	22.80	22.93	22.26
100		135	136	22.57	22.48	22.59
100		270	0	22.74	22.90	22.44
100	DFT-s-OFDM QPSK	1	1	23.29	23.10	23.19
100		1	136	22.69	22.83	22.10
100		1	271	22.66	22.49	23.02
100		135	1	22.82	22.57	22.30
100		135	67	22.79	22.91	22.22
100		135	136	22.58	22.48	22.58
100		270	0	22.76	22.89	22.40
100	DFT-s-OFDM 16QAM	1	1	22.79	22.62	22.55
100	DFT-s-OFDM 64QAM	1	1	22.84	22.78	22.77
100	DFT-s-OFDM 256QAM	1	1	21.06	21.03	20.94
100	CP-OFDM QPSK	1	1	22.68	22.57	22.58
100	CP-OFDM 16QAM	1	1	22.87	22.73	22.73
100	CP-OFDM 64QAM	1	1	22.33	22.18	22.25
100	CP-OFDM 256QAM	1	1	19.08	19.04	18.98
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	22.68	22.58	22.35
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	22.74	22.70	21.63
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	23.24	23.08	22.67
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	23.12	23.06	22.76
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	22.97	23.06	22.86


Effective Radiated Power and Effective Isotropic Radiated Power:

n2									
BW [M Hz]	Modulation	R B Si ze	RB Off set	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				372000	372000	376000	376000	380000	380000
Frequency (MHz)				1860	1860	1880	1880	1900	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	25.29	0.338	25.10	0.324	24.67	0.293
20		1	53	25.25	0.335	24.90	0.309	24.97	0.314
20		1	104	25.14	0.327	24.77	0.300	24.95	0.313
20		50	1	25.04	0.319	24.97	0.314	25.20	0.331
20		50	25	25.34	0.342	25.00	0.316	25.26	0.336
20		50	50	25.14	0.327	24.99	0.316	25.00	0.316
20		10 0	0	25.09	0.323	25.12	0.325	25.13	0.326
20	DFT-s-OFDM QPSK	1	1	25.70	0.372	25.75	0.376	25.66	0.368
20		1	53	25.60	0.363	25.57	0.361	25.54	0.358
20		1	104	25.49	0.354	25.47	0.352	25.42	0.348
20		50	1	25.30	0.339	25.35	0.343	25.24	0.334
20		50	25	25.19	0.330	24.99	0.316	25.14	0.327
20		50	50	24.98	0.315	24.85	0.305	24.69	0.294
20		10 0	0	24.90	0.309	24.99	0.316	24.86	0.306
20	DFT-s-OFDM 16QAM	1	1	24.26	0.267	24.05	0.254	23.66	0.232
20	DFT-s-OFDM 64QAM	1	1	22.84	0.192	22.57	0.181	22.18	0.165
20	DFT-s-OFDM 256QAM	1	1	20.61	0.115	20.40	0.110	19.99	0.100
20	CP-OFDM QPSK	1	1	23.84	0.242	23.57	0.228	23.16	0.207
20	CP-OFDM 16QAM	1	1	23.26	0.212	23.03	0.201	22.61	0.182
20	CP-OFDM 64QAM	1	1	21.66	0.147	21.33	0.136	20.99	0.126
20	CP-OFDM 256QAM	1	1	18.62	0.073	18.36	0.069	17.99	0.063
Channel				371500	371500	376000	371500	371500	376000
Frequency (MHz)				1857.5	1857.5	1880	1857.50	1857.50	1880.00
15	DFT-s-OFDM QPSK	1	1	25.56	0.360	25.00	0.316	24.81	0.303
Channel				371000	371000	376000	371000	371000	376000
Frequency (MHz)				1855	1855	1880	1855.00	1855.00	1880.00
10	DFT-s-OFDM QPSK	1	1	25.11	0.324	25.08	0.322	24.39	0.275



Channel				370500	370500	376000	370500	370500	376000
Frequency (MHz)				1852.5	1852.5	1880	1852.50	1852.50	1880.00
5	DFT-s-OFDM QPSK	1	1	25.36	0.344	24.79	0.301	24.23	0.265

n5									
BW [M Hz]	Modulation	R B Si ze	RB Off set	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				166800	166800	167300	167300	167800	167800
Frequency (MHz)				834	834	836.5	836.5	839	839
20	DFT-s-OFDM PI/2 BPSK	1	1	19.61	0.091	19.59	0.091	19.66	0.092
20		1	53	19.65	0.092	19.64	0.092	19.59	0.091
20		1	104	19.51	0.089	19.47	0.089	19.46	0.088
20		50	1	19.40	0.087	19.33	0.086	19.44	0.088
20		50	25	19.71	0.094	19.72	0.094	19.73	0.094
20		50	50	19.42	0.087	19.38	0.087	19.34	0.086
20		100	0	19.44	0.088	19.43	0.088	19.43	0.088
20	DFT-s-OFDM QPSK	1	1	19.68	0.093	19.77	0.095	19.65	0.092
20		1	53	19.61	0.091	19.66	0.092	19.63	0.092
20		1	104	19.53	0.090	19.51	0.089	19.43	0.088
20		50	1	18.88	0.077	18.87	0.077	18.86	0.077
20		50	25	18.44	0.070	18.56	0.072	18.67	0.074
20		50	50	18.56	0.072	18.48	0.070	18.44	0.070
20		100	0	18.49	0.071	18.65	0.073	18.53	0.071
20	DFT-s-OFDM 16QAM	1	1	18.83	0.076	18.87	0.077	18.88	0.077
20	DFT-s-OFDM 64QAM	1	1	17.23	0.053	17.34	0.054	17.34	0.054
20	DFT-s-OFDM 256QAM	1	1	15.10	0.032	15.14	0.033	15.17	0.033
20	CP-OFDM QPSK	1	1	18.33	0.068	18.42	0.070	18.34	0.068
20	CP-OFDM 16QAM	1	1	17.73	0.059	17.83	0.061	17.83	0.061
20	CP-OFDM 64QAM	1	1	15.90	0.039	16.00	0.040	15.97	0.040
20	CP-OFDM 256QAM	1	1	13.11	0.020	13.22	0.021	13.20	0.021
Channel				166300	166300	167300	166300	166300	167300
Frequency (MHz)				831.50	831.50	836.50	831.50	831.50	836.50
15	DFT-s-OFDM QPSK	1	1	19.61	0.091	19.66	0.092	19.66	0.092



Channel				165800	165800	167300	165800	165800	167300
Frequency (MHz)				829.00	829.00	836.50	829.00	829.00	836.50
10	DFT-s-OFDM QPSK	1	1	19.39	0.087	19.50	0.089	19.48	0.089
Channel				165300	165300	167300	165300	165300	167300
Frequency (MHz)				826.50	826.50	836.50	826.50	826.50	836.50
5	DFT-s-OFDM QPSK	1	1	19.45	0.088	19.53	0.090	19.47	0.089

n48 (PC3)									
B W [M Hz]	Modulation	RB Size	RB Offs et	Low Channe l/dBm	Low Channel/ Watt	Middle Channe l/dBm	Middle Channel/ Watt	High Channe l/dBm	High Channel/ l/Watt
Channel				638000	638000	641666	641666	645332	645332
Frequency (MHz)				3570	3570	3624.9 9	3624.99	3679.9 8	3679.9 8
40	DFT-s-OFDM PI/2 BPSK	1	1	22.51	0.178	22.45	0.176	22.29	0.169
40		1	53	22.42	0.175	22.04	0.160	22.34	0.171
40		1	104	22.47	0.177	22.41	0.174	22.63	0.183
40		50	1	22.01	0.159	21.66	0.147	21.88	0.154
40		50	25	22.47	0.177	22.11	0.163	22.35	0.172
40		50	50	21.89	0.155	21.64	0.146	21.94	0.156
40		100	0	21.99	0.158	21.60	0.145	21.85	0.153
40	DFT-s-OFDM QPSK	1	1	22.49	0.177	22.64	0.184	22.59	0.182
40		1	53	22.28	0.169	22.04	0.160	22.31	0.170
40		1	104	22.49	0.177	22.41	0.174	22.37	0.173
40		50	1	21.61	0.145	21.75	0.150	21.62	0.145
40		50	25	21.46	0.140	21.36	0.137	21.41	0.138
40		50	50	21.29	0.135	21.13	0.130	21.43	0.139
40		100	0	21.50	0.141	21.11	0.129	21.38	0.137
40	DFT-s-OFDM 16QAM	1	1	21.42	0.139	21.31	0.135	21.23	0.133
40	DFT-s-OFDM 64QAM	1	1	20.11	0.103	19.91	0.098	19.83	0.096
40	DFT-s-OFDM 256QAM	1	1	17.80	0.060	17.65	0.058	17.60	0.058
40	CP-OFDM QPSK	1	1	21.07	0.128	20.88	0.122	20.82	0.121
40	CP-OFDM 16QAM	1	1	20.54	0.113	20.35	0.108	20.32	0.108
40	CP-OFDM 64QAM	1	1	18.62	0.073	18.48	0.070	18.44	0.070
40	CP-OFDM 256QAM	1	1	15.82	0.038	15.67	0.037	15.56	0.036
Channel				637668	637668	641666	637668	637668	641666



Frequency (MHz)				3565.0 2	3565.02	3624.9 9	3565.02	3565.0 2	3624.9 9
30	DFT-s-OFDM QPSK	1	1	22.45	0.176	22.21	0.166	22.35	0.172
Channel				637334	637334	641666	637334	637334	641666
Frequency (MHz)				3560.0 1	3560.01	3624.9 9	3560.01	3560.0 1	3624.9 9
20	DFT-s-OFDM QPSK	1	1	22.62	0.183	22.15	0.164	22.32	0.171
Channel				637000	637000	641666	637000	637000	641666
Frequency (MHz)				3555	3555	3624.9 9	3555.00	3555.0 0	3624.9 9
10	DFT-s-OFDM QPSK	1	1	22.45	0.176	22.13	0.163	22.52	0.179

n66									
BW [M Hz]	Modulation	R B Si ze	RB Off set	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				345000	345000	349000	349000	353000	353000
Frequency (MHz)				1725	1725	1745	1745	1765	1765
30	DFT-s-OFDM PI/2 BPSK	1	1	24.56	0.286	24.57	0.286	24.45	0.279
30		1	80	24.62	0.290	24.53	0.284	24.45	0.279
30		1	158	24.44	0.278	24.33	0.271	24.39	0.275
30		80	1	24.18	0.262	24.08	0.256	23.94	0.248
30		80	40	24.70	0.295	24.60	0.288	24.50	0.282
30		80	80	24.18	0.262	24.05	0.254	24.01	0.252
30		16 0	0	24.24	0.265	24.12	0.258	24.02	0.252
30	DFT-s-OFDM QPSK	1	1	25.00	0.316	25.02	0.318	24.98	0.315
30		1	80	24.65	0.292	24.62	0.290	24.54	0.284
30		1	158	24.50	0.282	24.43	0.277	24.53	0.284
30		80	1	23.64	0.231	23.68	0.233	23.62	0.230
30		80	40	23.46	0.222	23.49	0.223	23.51	0.224
30		80	80	23.63	0.231	23.58	0.228	23.56	0.227
30		16 0	0	23.53	0.225	23.58	0.228	23.45	0.221
30	DFT-s-OFDM 16QAM	1	1	23.51	0.224	23.56	0.227	23.43	0.220
30	DFT-s-OFDM 64QAM	1	1	22.05	0.160	22.05	0.160	21.89	0.155
30	DFT-s-OFDM 256QAM	1	1	19.86	0.097	19.85	0.097	19.72	0.094
30	CP-OFDM QPSK	1	1	23.04	0.201	23.12	0.205	23.03	0.201



30	CP-OFDM 16QAM	1	1	22.43	0.175	22.47	0.177	22.35	0.172
30	CP-OFDM 64QAM	1	1	20.74	0.119	20.74	0.119	20.58	0.114
30	CP-OFDM 256QAM	1	1	17.88	0.061	17.92	0.062	17.78	0.060
Channel				344000	344000	349000	344000	344000	349000
Frequency (MHz)				1720	1720	1745	1720.00	1720.00	1745.00
20	DFT-s-OFDM QPSK	1	1	24.85	0.305	24.81	0.303	24.84	0.305
Channel				343500	343500	349000	343500	343500	349000
Frequency (MHz)				1717.5	1717.5	1745	1717.50	1717.50	1745.00
15	DFT-s-OFDM QPSK	1	1	24.71	0.296	24.69	0.294	24.63	0.290
Channel				343000	343000	349000	343000	343000	349000
Frequency (MHz)				1715	1715	1745	1715.00	1715.00	1745.00
10	DFT-s-OFDM QPSK	1	1	24.83	0.304	24.90	0.309	24.49	0.281
Channel				342500	342500	349000	342500	342500	349000
Frequency (MHz)				1712.5	1712.5	1745	1712.50	1712.50	1745.00
5	DFT-s-OFDM QPSK	1	1	24.81	0.303	24.94	0.312	24.37	0.274

n77(3450-3550MHz)(PC2)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s- OFDM PI/2 BPSK	1	1	/	/	28.80	0.759	/	/
100		1	136	/	/	28.55	0.716	/	/
100		1	271	/	/	28.48	0.705	/	/
100		135	1	/	/	28.21	0.662	/	/
100		135	67	/	/	28.71	0.743	/	/
100		135	136	/	/	27.79	0.601	/	/
100		270	0	/	/	28.16	0.655	/	/
100	DFT-s- OFDM QPSK	1	1	/	/	29.32	0.855	/	/
100		1	136	/	/	28.62	0.728	/	/
100		1	271	/	/	28.52	0.711	/	/
100		135	1	/	/	27.71	0.590	/	/
100		135	67	/	/	28.68	0.738	/	/
100		135	136	/	/	27.27	0.533	/	/
100		270	0	/	/	27.66	0.583	/	/
100	DFT-s- OFDM	1	1	/	/	27.74	0.594	/	/



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	16QAM								
100	DFT-s-OFDM 64QAM	1	1	/	/	26.40	0.437	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	24.11	0.258	/	/
100	CP-OFDM QPSK	1	1	/	/	27.24	0.530	/	/
100	CP-OFDM 16QAM	1	1	/	/	26.76	0.474	/	/
100	CP-OFDM 64QAM	1	1	/	/	24.94	0.312	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.18	0.165	/	/
Channel				632668	632668	633334	632668	632668	633334
Frequency (MHz)				3490.02	3490.02	3500.01	3490.02	3490.02	3500.01
80	DFT-s-OFDM QPSK	1	1	28.75	0.750	28.63	0.729	28.62	0.728
Channel				632000	632000	633334	632000	632000	633334
Frequency (MHz)				3480	3480	3500.01	3480.00	3480.00	3500.01
60	DFT-s-OFDM QPSK	1	1	28.90	0.776	28.83	0.764	28.72	0.745
Channel				631334	631334	633334	631334	631334	633334
Frequency (MHz)				3470.01	3470.01	3500.01	3470.01	3470.01	3500.01
40	DFT-s-OFDM QPSK	1	1	29.26	0.843	29.24	0.839	28.97	0.789
Channel				631000	631000	633334	631000	631000	633334
Frequency (MHz)				3465	3465	3500.01	3465.00	3465.00	3500.01
30	DFT-s-OFDM QPSK	1	1	29.26	0.843	29.04	0.802	28.65	0.733
Channel				630668	630668	633334	630668	630668	633334
Frequency (MHz)				3460.02	3460.02	3500.01	3460.02	3460.02	3500.01
20	DFT-s-OFDM QPSK	1	1	29.04	0.802	28.98	0.791	28.55	0.716

n77(3450-3550MHz)(PC3)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel/dBm	Low Channel/Watt	Middle Channel/dBm	Middle Channel/Watt	High Channel/dBm	High Channel/Watt
Channel				/	/	633334	633334	/	/



Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	25.70	0.372	/	/
100		1	136	/	/	25.41	0.348	/	/
100		1	271	/	/	24.88	0.308	/	/
100		135	1	/	/	25.74	0.375	/	/
100		135	67	/	/	25.49	0.354	/	/
100		135	136	/	/	24.86	0.306	/	/
100		270	0	/	/	25.47	0.352	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	26.06	0.404	/	/
100		1	136	/	/	25.84	0.384	/	/
100		1	271	/	/	25.87	0.386	/	/
100		135	1	/	/	25.60	0.363	/	/
100		135	67	/	/	25.49	0.354	/	/
100		135	136	/	/	24.84	0.305	/	/
100		270	0	/	/	25.49	0.354	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	25.82	0.382	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	25.94	0.393	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	24.26	0.267	/	/
100	CP-OFDM QPSK	1	1	/	/	25.97	0.395	/	/
100	CP-OFDM 16QAM	1	1	/	/	26.02	0.400	/	/
100	CP-OFDM 64QAM	1	1	/	/	25.08	0.322	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.27	0.169	/	/
Channel				63266 8	632668	633334	632668	632668	633334
Frequency (MHz)				3490. 02	3490.02	3500.01	3490.02	3490.02	3500.01
80	DFT-s-OFDM QPSK	1	1	25.95	0.394	25.84	0.384	25.74	0.375
Channel				63200 0	632000	633334	632000	632000	633334
Frequency (MHz)				3480	3480	3500.01	3480.00	3480.00	3500.01
60	DFT-s-OFDM QPSK	1	1	25.59	0.362	25.49	0.354	25.84	0.384
Channel				63133 4	631334	633334	631334	631334	633334
Frequency (MHz)				3470. 01	3470.01	3500.01	3470.01	3470.01	3500.01
40	DFT-s-OFDM QPSK	1	1	25.77	0.378	25.68	0.370	25.37	0.344
Channel				63100	631000	633334	631000	631000	633334



				0					
	Frequency (MHz)			3465	3465	3500.01	3465.00	3465.00	3500.01
30	DFT-s-OFDM QPSK	1	1	25.78	0.378	25.63	0.366	25.10	0.324
	Channel			630668	630668	633334	630668	630668	633334
	Frequency (MHz)			3460.02	3460.02	3500.01	3460.02	3460.02	3500.01
20	DFT-s-OFDM QPSK	1	1	25.72	0.373	25.62	0.365	25.01	0.317

n77(3700-3980MHz)(PC2)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel/dBm	Low Channel/Watt	Middle Channel/dBm	Middle Channel/Watt	High Channel/dBm	High Channel/Watt
	Channel			650000	650000	656000	656000	662000	662000
	Frequency (MHz)			3750	3750	3840	3840	3930	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	27.91	0.618	27.93	0.621	28.50	0.708
100		1	136	28.12	0.649	28.18	0.658	28.04	0.637
100		1	271	27.97	0.627	28.27	0.671	28.47	0.703
100		135	1	27.82	0.605	27.49	0.561	27.85	0.610
100		135	67	28.16	0.655	28.26	0.670	28.20	0.661
100		135	136	27.44	0.555	27.48	0.560	27.82	0.605
100		270	0	27.58	0.573	27.82	0.605	27.83	0.607
100	DFT-s-OFDM QPSK	1	1	27.87	0.612	28.88	0.773	27.99	0.630
100		1	136	28.15	0.653	28.28	0.673	28.07	0.641
100		1	271	28.05	0.638	28.29	0.675	28.51	0.710
100		135	1	27.34	0.542	27.02	0.504	27.38	0.547
100		135	67	28.16	0.655	28.29	0.675	28.17	0.656
100		135	136	26.93	0.493	27.03	0.505	27.29	0.536
100		270	0	27.06	0.508	27.32	0.540	27.36	0.545
100	DFT-s-OFDM 16QAM	1	1	26.73	0.471	26.88	0.488	27.48	0.560
100	DFT-s-OFDM 64QAM	1	1	25.35	0.343	25.54	0.358	26.07	0.405
100	DFT-s-OFDM 256QAM	1	1	23.12	0.205	23.31	0.214	23.80	0.240
100	CP-OFDM QPSK	1	1	26.36	0.433	26.49	0.446	27.00	0.501
100	CP-OFDM 16QAM	1	1	25.92	0.391	26.02	0.400	26.53	0.450
100	CP-OFDM 64QAM	1	1	24.03	0.253	24.11	0.258	24.67	0.293
100	CP-OFDM 256QAM	1	1	21.18	0.131	21.32	0.136	21.79	0.151



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Channel				649334	649334 4	656000	649334	649334	656000
Frequency (MHz)				3740.0 1	3740.0 1	3840	3740.01	3740.01	3840.00
80	DFT-s-OFDM QPSK	1	1	27.92	0.619	28.10	0.646	28.12	0.649
Channel				648668	648668 8	656000	648668	648668	656000
Frequency (MHz)				3730.0 2	3730.0 2	3840	3730.02	3730.02	3840.00
60	DFT-s-OFDM QPSK	1	1	28.10	0.646	28.12	0.649	27.99	0.630
Channel				648000	648000 0	656000	648000	648000	656000
Frequency (MHz)				3720	3720	3840	3720.00	3720.00	3840.00
40	DFT-s-OFDM QPSK	1	1	28.15	0.653	28.20	0.661	28.07	0.641
Channel				647668	647668 8	656000	647668	647668	656000
Frequency (MHz)				3715.0 2	3715.0 2	3840	3715.02	3715.02	3840.00
30	DFT-s-OFDM QPSK	1	1	27.85	0.610	28.08	0.643	27.93	0.621
Channel				647334	647334 4	656000	647334	647334	656000
Frequency (MHz)				3710.0 1	3710.0 1	3840	3710.01	3710.01	3840.00
20	DFT-s-OFDM QPSK	1	1	27.95	0.624	28.23	0.665	28.12	0.649

n77(3700-3980MHz)(PC3)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				650000	650000	656000	656000	662000	662000
Frequency (MHz)				3750	3750	3840	3840	3930	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	24.97	0.314	24.95	0.313	24.72	0.296
100		1	136	25.04	0.319	25.12	0.325	24.30	0.269
100		1	271	24.95	0.313	24.66	0.292	25.14	0.327
100		135	1	25.38	0.345	24.90	0.309	24.47	0.280



100	DFT-s-OFDM QPSK	135	67	25.14	0.327	25.21	0.332	24.32	0.270
100		135	136	24.82	0.303	24.70	0.295	24.68	0.294
100		270	0	25.09	0.323	25.16	0.328	24.47	0.280
100		1	1	25.55	0.359	25.63	0.366	25.62	0.365
100		1	136	25.37	0.344	25.48	0.353	25.28	0.337
100		1	271	25.21	0.332	25.24	0.334	25.21	0.332
100		135	1	25.04	0.319	25.11	0.324	25.02	0.318
100		135	67	25.01	0.317	25.00	0.316	25.00	0.316
100		135	136	24.82	0.303	24.70	0.295	24.69	0.294
100		270	0	25.00	0.316	24.90	0.309	25.03	0.318
100	DFT-s-OFDM 16QAM	1	1	24.93	0.311	24.95	0.313	24.70	0.295
100	DFT-s-OFDM 64QAM	1	1	24.96	0.313	25.03	0.318	24.71	0.296
100	DFT-s-OFDM 256QAM	1	1	23.31	0.214	23.30	0.214	23.04	0.201
100	CP-OFDM QPSK	1	1	25.01	0.317	24.99	0.316	24.75	0.299
100	CP-OFDM 16QAM	1	1	25.04	0.319	25.00	0.316	24.76	0.299
100	CP-OFDM 64QAM	1	1	24.15	0.260	24.13	0.259	23.88	0.244
100	CP-OFDM 256QAM	1	1	21.35	0.136	21.30	0.135	21.06	0.128
Channel				649334	649334	656000	649334	649334	656000
Frequency (MHz)				3740.01	3740.01	3840	3740.01	3740.01	3840.00
80	DFT-s-OFDM QPSK	1	1	25.01	0.317	24.92	0.310	24.48	0.281
Channel				648668	648668	656000	648668	648668	656000
Frequency (MHz)				3730.02	3730.02	3840	3730.02	3730.02	3840.00
60	DFT-s-OFDM QPSK	1	1	25.04	0.319	25.03	0.318	24.17	0.261
Channel				648000	648000	656000	648000	648000	656000
Frequency (MHz)				3720	3720	3840	3720.00	3720.00	3840.00
40	DFT-s-OFDM QPSK	1	1	25.39	0.346	25.41	0.348	24.86	0.306
Channel				647668	647668	656000	647668	647668	656000
Frequency (MHz)				3715.02	3715.02	3840	3715.02	3715.02	3840.00
30	DFT-s-OFDM QPSK	1	1	25.43	0.349	25.34	0.342	24.95	0.313
Channel				647334	647334	656000	647334	647334	656000
Frequency (MHz)				3710.01	3710.01	3840	3710.01	3710.01	3840.00
20	DFT-s-OFDM QPSK	1	1	25.33	0.341	25.38	0.345	25.06	0.321



n78(3450-3550MHz)(PC2)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel I/dBm	Low Channel I/Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel/ Watt
Channel				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	26.39	0.436	/	/
100		1	136	/	/	26.37	0.434	/	/
100		1	271	/	/	25.84	0.384	/	/
100		135	1	/	/	25.90	0.389	/	/
100		135	67	/	/	25.87	0.386	/	/
100		135	136	/	/	25.38	0.345	/	/
100		270	0	/	/	25.82	0.382	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	27.02	0.504	/	/
100		1	136	/	/	26.37	0.434	/	/
100		1	271	/	/	25.80	0.380	/	/
100		135	1	/	/	25.33	0.341	/	/
100		135	67	/	/	26.39	0.436	/	/
100		135	136	/	/	24.85	0.305	/	/
100		270	0	/	/	25.30	0.339	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	25.31	0.340	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	23.90	0.245	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	21.64	0.146	/	/
100	CP-OFDM QPSK	1	1	/	/	24.84	0.305	/	/
100	CP-OFDM 16QAM	1	1	/	/	24.35	0.272	/	/
100	CP-OFDM 64QAM	1	1	/	/	22.51	0.178	/	/
100	CP-OFDM 256QAM	1	1	/	/	19.66	0.092	/	/
Channel				633000	633000	633334	633000	633000	633334
Frequency (MHz)				3495	3495	3500.01	3495.00	3495.00	3500.01
90	DFT-s-OFDM	1	1	26.33	0.430	26.36	0.433	26.37	0.434



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	QPSK								
	Channel			632668	632668	633334	632668	632668	633334
	Frequency (MHz)			3490.0 2	3490.02	3500.01	3490.02	3490.02	3500.01
80	DFT-s-OFDM QPSK	1	1	26.36	0.433	26.40	0.437	26.43	0.440
	Channel			632334	632334	633334	632334	632334	633334
	Frequency (MHz)			3485.0 1	3485.01	3500.01	3485.01	3485.01	3500.01
70	DFT-s-OFDM QPSK	1	1	26.44	0.441	26.45	0.442	26.33	0.430
	Channel			632000	632000	633334	632000	632000	633334
	Frequency (MHz)			3480	3480	3500.01	3480.00	3480.00	3500.01
60	DFT-s-OFDM QPSK	1	1	26.55	0.452	26.62	0.459	26.52	0.449
	Channel			631668	631668	633334	631668	631668	633334
	Frequency (MHz)			3475.0 2	3475.02	3500.01	3475.02	3475.02	3500.01
50	DFT-s-OFDM QPSK	1	1	26.60	0.457	26.45	0.442	26.50	0.447
	Channel			631334	631334	633334	631334	631334	633334
	Frequency (MHz)			3470.0 1	3470.01	3500.01	3470.01	3470.01	3500.01
40	DFT-s-OFDM QPSK	1	1	26.93	0.493	26.90	0.490	26.64	0.461
	Channel			631000	631000	633334	631000	631000	633334
	Frequency (MHz)			3465	3465	3500.01	3465.00	3465.00	3500.01
30	DFT-s-OFDM QPSK	1	1	26.86	0.485	26.83	0.482	26.32	0.429
	Channel			630668	630668	633334	630668	630668	633334
	Frequency (MHz)			3460.0 2	3460.02	3500.01	3460.02	3460.02	3500.01
20	DFT-s-OFDM QPSK	1	1	26.04	0.402	25.80	0.380	24.55	0.285

n78(3450-3550MHz)(PC3)									
BW [M Hz]	Modulation	R B Si ze	RB Offs et	Low Channe l/dBm	Low Channe l/Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel/ Watt
	Channel			/	/	633334	633334	/	/
	Frequency (MHz)			/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	23.23	0.210	/	/
100		1	13 6	/	/	22.77	0.189	/	/
100		1	27 1	/	/	22.19	0.166	/	/



100		135	1	/	/	23.02	0.200	/	/
100		135	67	/	/	22.80	0.191	/	/
100		135	136	/	/	22.26	0.168	/	/
100		270	0	/	/	22.80	0.191	/	/
100		1	1	/	/	23.73	0.236	/	/
100		1	136	/	/	22.79	0.190	/	/
100		1	271	/	/	22.17	0.165	/	/
100	DFT-s-OFDM QPSK	135	1	/	/	23.03	0.201	/	/
100		135	67	/	/	22.81	0.191	/	/
100		135	136	/	/	22.28	0.169	/	/
100		270	0	/	/	22.79	0.190	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	23.15	0.207	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	23.34	0.216	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	21.57	0.144	/	/
100	CP-OFDM QPSK	1	1	/	/	23.23	0.210	/	/
100	CP-OFDM 16QAM	1	1	/	/	23.27	0.212	/	/
100	CP-OFDM 64QAM	1	1	/	/	22.37	0.173	/	/
100	CP-OFDM 256QAM	1	1	/	/	19.55	0.090	/	/
Channel				633000	633000	633334	633000	633000	633334
Frequency (MHz)				3495	3495	3500.01	3495.00	3495.00	3500.01
90	DFT-s-OFDM QPSK	1	1	23.21	0.209	23.18	0.208	23.17	0.207
Channel				632668	632668	633334	632668	632668	633334
Frequency (MHz)				3490.02	3490.02	3500.01	3490.02	3490.02	3500.01
80	DFT-s-OFDM QPSK	1	1	23.30	0.214	23.21	0.209	23.08	0.203
Channel				632334	632334	633334	632334	632334	633334
Frequency (MHz)				3485.01	3485.01	3500.01	3485.01	3485.01	3500.01
70	DFT-s-OFDM QPSK	1	1	23.33	0.215	23.16	0.207	23.01	0.200
Channel				632000	632000	633334	632000	632000	633334
Frequency (MHz)				3480	3480	3500.01	3480.00	3480.00	3500.01
60	DFT-s-OFDM QPSK	1	1	23.40	0.219	23.26	0.212	23.09	0.204
Channel				631668	631668	633334	631668	631668	633334



Frequency (MHz)				3475.0 2	3475.02	3500.01	3475.02	3475.02	3500.01
50	DFT-s-OFDM QPSK	1	1	23.41	0.219	23.16	0.207	22.91	0.195
Channel				631334	631334	633334	631334	631334	633334
Frequency (MHz)				3470.0 1	3470.01	3500.01	3470.01	3470.01	3500.01
40	DFT-s-OFDM QPSK	1	1	23.20	0.209	23.55	0.226	23.06	0.202
Channel				631000	631000	633334	631000	631000	633334
Frequency (MHz)				3465	3465	3500.01	3465.00	3465.00	3500.01
30	DFT-s-OFDM QPSK	1	1	23.18	0.208	23.36	0.217	22.62	0.183
Channel				630668	630668	633334	630668	630668	633334
Frequency (MHz)				3460.0 2	3460.02	3500.01	3460.02	3460.02	3500.01
20	DFT-s-OFDM QPSK	1	1	23.54	0.226	23.18	0.208	23.18	0.208

n78(3700-3800MHz)(PC2)									
BW [M Hz]	Modulation	RB Siz e	RB Off set	Low Channe l/dBm	Low Channe l/Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel/ Watt
Channel				/	/	650000	650000	/	/
Frequency (MHz)				/	/	3750	3750	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	25.63	0.366	/	/
100		1	13 6	/	/	25.72	0.373	/	/
100		1	27 1	/	/	25.58	0.361	/	/
100		135	1	/	/	25.58	0.361	/	/
100		135	67	/	/	25.68	0.370	/	/
100		135	13 6	/	/	24.95	0.313	/	/
100		270	0	/	/	25.15	0.327	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	26.43	0.440	/	/
100		1	13 6	/	/	25.63	0.366	/	/
100		1	27 1	/	/	25.59	0.362	/	/
100		135	1	/	/	24.95	0.313	/	/
100		135	67	/	/	25.67	0.369	/	/
100		135	13 6	/	/	24.44	0.278	/	/
100		270	0	/	/	24.65	0.292	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	24.55	0.285	/	/



100	DFT-s-OFDM 64QAM	1	1	/	/	23.18	0.208	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	20.90	0.123	/	/
100	CP-OFDM QPSK	1	1	/	/	24.07	0.255	/	/
100	CP-OFDM 16QAM	1	1	/	/	23.73	0.236	/	/
100	CP-OFDM 64QAM	1	1	/	/	21.76	0.150	/	/
100	CP-OFDM 256QAM	1	1	/	/	18.95	0.079	/	/
Channel				649668	649668	650000	649668	649668	650000
Frequency (MHz)				3745.0 2	3745.02	3750	3745.02	3745.02	3750.00
90	DFT-s-OFDM QPSK	1	1	25.61	0.364	25.63	0.366	25.77	0.378
Channel				649334	649334	650000	649334	649334	650000
Frequency (MHz)				3740.0 1	3740.01	3750	3740.01	3740.01	3750.00
80	DFT-s-OFDM QPSK	1	1	25.65	0.367	25.83	0.383	25.90	0.389
Channel				649000	649000	650000	649000	649000	650000
Frequency (MHz)				3735	3735	3750	3735.00	3735.00	3750.00
70	DFT-s-OFDM QPSK	1	1	25.73	0.374	25.94	0.393	26.02	0.400
Channel				648668	648668	650000	648668	648668	650000
Frequency (MHz)				3730.0 2	3730.02	3750	3730.02	3730.02	3750.00
60	DFT-s-OFDM QPSK	1	1	25.62	0.365	25.87	0.386	25.88	0.387
Channel				648334	648334	650000	648334	648334	650000
Frequency (MHz)				3725.0 1	3725.01	3750	3725.01	3725.01	3750.00
50	DFT-s-OFDM QPSK	1	1	25.77	0.378	26.10	0.407	25.85	0.385
Channel				648000	648000	650000	648000	648000	650000
Frequency (MHz)				3720	3720	3750	3720.00	3720.00	3750.00
40	DFT-s-OFDM QPSK	1	1	26.14	0.411	26.60	0.457	26.16	0.413
Channel				647668	647668	650000	647668	647668	650000
Frequency (MHz)				3715.0 2	3715.02	3750	3715.02	3715.02	3750.00
30	DFT-s-OFDM QPSK	1	1	26.00	0.398	26.31	0.428	26.05	0.403
Channel				647334	647334	650000	647334	647334	650000
Frequency (MHz)				3710.0 1	3710.01	3750	3710.01	3710.01	3750.00



20	DFT-s-OFDM QPSK	1	1	25.58	0.361	25.67	0.369	25.30	0.339
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n78(3700-3800MHz)(PC3)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				/	/	650000	650000	/	/
Frequency (MHz)				/	/	3750	3750	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	22.33	0.171	/	/
100		1	136	/	/	22.41	0.174	/	/
100		1	271	/	/	22.39	0.173	/	/
100		135	1	/	/	22.73	0.187	/	/
100		135	67	/	/	22.47	0.177	/	/
100		135	136	/	/	22.23	0.167	/	/
100		270	0	/	/	22.44	0.175	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	23.23	0.210	/	/
100		1	136	/	/	22.41	0.174	/	/
100		1	271	/	/	22.37	0.173	/	/
100		135	1	/	/	22.46	0.176	/	/
100		135	67	/	/	22.38	0.173	/	/
100		135	136	/	/	22.24	0.167	/	/
100		270	0	/	/	22.35	0.172	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	22.26	0.168	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	22.42	0.175	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	20.60	0.115	/	/
100	CP-OFDM QPSK	1	1	/	/	22.36	0.172	/	/
100	CP-OFDM 16QAM	1	1	/	/	22.38	0.173	/	/
100	CP-OFDM 64QAM	1	1	/	/	21.50	0.141	/	/
100	CP-OFDM 256QAM	1	1	/	/	18.67	0.074	/	/
Channel				649668	649668	650000	649668	649668	650000
Frequency (MHz)				3745.02	3745.02	3750	3745.02	3745.02	3750.00
90	DFT-s-OFDM QPSK	1	1	22.31	0.170	22.45	0.176	22.48	0.177
Channel				649334	649334	650000	649334	649334	650000
Frequency (MHz)				3740.01	3740.01	3750	3740.01	3740.01	3750.00
80	DFT-s-OFDM QPSK	1	1	22.51	0.178	22.65	0.184	22.73	0.187
Channel				649000	649000	650000	649000	649000	650000



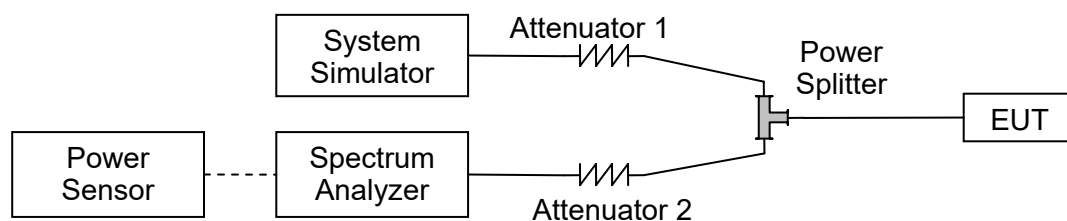
Frequency (MHz)				3735	3735	3750	3735.00	3735.00	3750.00
70	DFT-s-OFDM QPSK	1	1	22.39	0.173	22.72	0.187	22.69	0.186
Channel				648668	648668	650000	648668	648668	650000
Frequency (MHz)				3730.02	3730.02	3750	3730.02	3730.02	3750.00
60	DFT-s-OFDM QPSK	1	1	22.54	0.179	22.67	0.185	22.67	0.185
Channel				648334	648334	650000	648334	648334	650000
Frequency (MHz)				3725.01	3725.01	3750	3725.01	3725.01	3750.00
50	DFT-s-OFDM QPSK	1	1	22.53	0.179	22.54	0.179	22.54	0.179
Channel				648000	648000	650000	648000	648000	650000
Frequency (MHz)				3720	3720	3750	3720.00	3720.00	3750.00
40	DFT-s-OFDM QPSK	1	1	22.94	0.197	22.72	0.187	23.03	0.201
Channel				647668	647668	650000	647668	647668	650000
Frequency (MHz)				3715.02	3715.02	3750	3715.02	3715.02	3750.00
30	DFT-s-OFDM QPSK	1	1	22.82	0.191	23.13	0.206	22.75	0.188
Channel				647334	647334	650000	647334	647334	650000
Frequency (MHz)				3710.01	3710.01	3750	3710.01	3710.01	3750.00
20	DFT-s-OFDM QPSK	1	1	22.67	0.185	22.89	0.195	22.62	0.183

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
n2	15	5	370500	DFT-s-OFDM PI/2 BPSK	25/0	4.4792	5.039	PASS
n2	15	5	370500	DFT-s-OFDM QPSK	25/0	4.5000	5.166	PASS
n2	15	5	370500	DFT-s-OFDM 16QAM	25/0	4.4843	4.978	PASS
n2	15	5	370500	DFT-s-OFDM 64QAM	25/0	4.4776	5.004	PASS



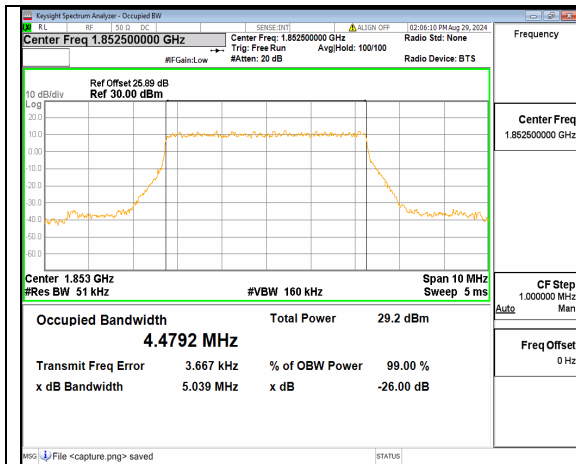
n2	15	5	370500	DFT-s-OFDM 256QAM	25/0	4.4818	5.077	PASS
n2	15	5	370500	CP-OFDM QPSK	25/0	4.4784	5.069	PASS
n2	15	5	376000	DFT-s-OFDM PI/2 BPSK	25/0	4.4702	4.969	PASS
n2	15	5	376000	DFT-s-OFDM QPSK	25/0	4.4832	4.964	PASS
n2	15	5	376000	DFT-s-OFDM 16QAM	25/0	4.4886	5.070	PASS
n2	15	5	376000	DFT-s-OFDM 64QAM	25/0	4.4727	4.910	PASS
n2	15	5	376000	DFT-s-OFDM 256QAM	25/0	4.4865	5.051	PASS
n2	15	5	376000	CP-OFDM QPSK	25/0	4.4760	5.113	PASS
n2	15	5	381500	DFT-s-OFDM PI/2 BPSK	25/0	4.4882	5.096	PASS
n2	15	5	381500	DFT-s-OFDM QPSK	25/0	4.4878	5.021	PASS
n2	15	5	381500	DFT-s-OFDM 16QAM	25/0	4.4989	5.020	PASS
n2	15	5	381500	DFT-s-OFDM 64QAM	25/0	4.4804	5.022	PASS
n2	15	5	381500	DFT-s-OFDM 256QAM	25/0	4.4803	5.007	PASS
n2	15	5	381500	CP-OFDM QPSK	25/0	4.4749	5.063	PASS
n2	15	10	371000	DFT-s-OFDM PI/2 BPSK	50/0	8.9267	9.597	PASS
n2	15	10	371000	DFT-s-OFDM QPSK	50/0	8.9239	9.672	PASS
n2	15	10	371000	DFT-s-OFDM 16QAM	50/0	8.9411	9.614	PASS
n2	15	10	371000	DFT-s-OFDM 64QAM	50/0	8.9233	9.589	PASS
n2	15	10	371000	DFT-s-OFDM 256QAM	50/0	8.9302	9.567	PASS
n2	15	10	371000	CP-OFDM QPSK	52/0	9.2795	10.094	PASS
n2	15	10	376000	DFT-s-OFDM PI/2 BPSK	50/0	8.9218	9.502	PASS
n2	15	10	376000	DFT-s-OFDM QPSK	50/0	8.9271	9.659	PASS
n2	15	10	376000	DFT-s-OFDM 16QAM	50/0	8.9564	9.637	PASS
n2	15	10	376000	DFT-s-OFDM 64QAM	50/0	8.9251	9.650	PASS



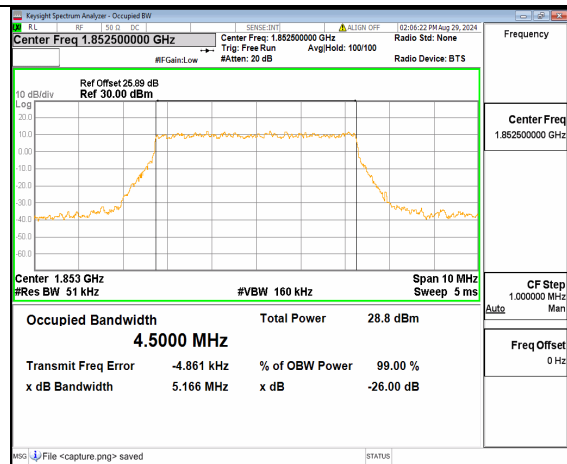
n2	15	10	376000	DFT-s-OFDM 256QAM	50/0	8.9266	9.613	PASS
n2	15	10	376000	CP-OFDM QPSK	52/0	9.2963	10.117	PASS
n2	15	10	381000	DFT-s-OFDM PI/2 BPSK	50/0	8.9230	9.665	PASS
n2	15	10	381000	DFT-s-OFDM QPSK	50/0	8.9276	9.692	PASS
n2	15	10	381000	DFT-s-OFDM 16QAM	50/0	8.9343	9.643	PASS
n2	15	10	381000	DFT-s-OFDM 64QAM	50/0	8.9308	9.615	PASS
n2	15	10	381000	DFT-s-OFDM 256QAM	50/0	8.9286	9.640	PASS
n2	15	10	381000	CP-OFDM QPSK	52/0	9.2934	10.218	PASS
n2	15	15	371500	DFT-s-OFDM PI/2 BPSK	75/0	13.395	14.204	PASS
n2	15	15	371500	DFT-s-OFDM QPSK	75/0	13.409	14.299	PASS
n2	15	15	371500	DFT-s-OFDM 16QAM	75/0	13.423	14.319	PASS
n2	15	15	371500	DFT-s-OFDM 64QAM	75/0	13.391	14.191	PASS
n2	15	15	371500	DFT-s-OFDM 256QAM	75/0	13.435	14.330	PASS
n2	15	15	371500	CP-OFDM QPSK	79/0	14.098	14.974	PASS
n2	15	15	376000	DFT-s-OFDM PI/2 BPSK	75/0	13.409	14.242	PASS
n2	15	15	376000	DFT-s-OFDM QPSK	75/0	13.411	14.309	PASS
n2	15	15	376000	DFT-s-OFDM 16QAM	75/0	13.405	14.390	PASS
n2	15	15	376000	DFT-s-OFDM 64QAM	75/0	13.396	14.290	PASS
n2	15	15	376000	DFT-s-OFDM 256QAM	75/0	13.418	14.205	PASS
n2	15	15	376000	CP-OFDM QPSK	79/0	14.110	14.952	PASS
n2	15	15	380500	DFT-s-OFDM PI/2 BPSK	75/0	13.423	14.333	PASS
n2	15	15	380500	DFT-s-OFDM QPSK	75/0	13.438	14.404	PASS
n2	15	15	380500	DFT-s-OFDM 16QAM	75/0	13.436	14.259	PASS
n2	15	15	380500	DFT-s-OFDM 64QAM	75/0	13.405	14.247	PASS



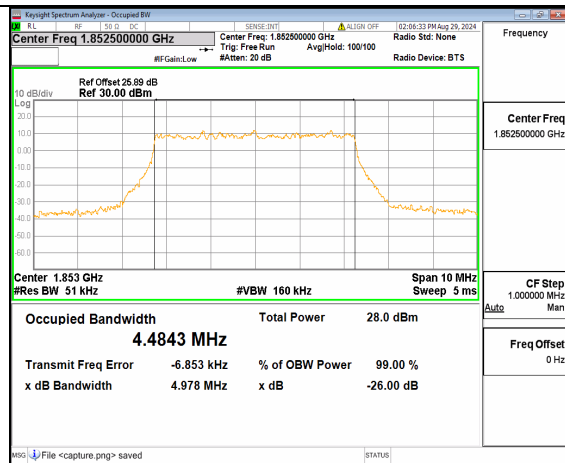
n2	15	15	380500	DFT-s-OFDM 256QAM	75/0	13.456	14.360	PASS
n2	15	15	380500	CP-OFDM QPSK	79/0	14.119	15.038	PASS
n2	15	20	372000	DFT-s-OFDM PI/2 BPSK	100/0	17.863	18.850	PASS
n2	15	20	372000	DFT-s-OFDM QPSK	100/0	17.850	18.808	PASS
n2	15	20	372000	DFT-s-OFDM 16QAM	100/0	17.857	18.802	PASS
n2	15	20	372000	DFT-s-OFDM 64QAM	100/0	17.864	18.840	PASS
n2	15	20	372000	DFT-s-OFDM 256QAM	100/0	17.834	18.776	PASS
n2	15	20	372000	CP-OFDM QPSK	106/0	18.891	20.080	PASS
n2	15	20	376000	DFT-s-OFDM PI/2 BPSK	100/0	17.866	18.892	PASS
n2	15	20	376000	DFT-s-OFDM QPSK	100/0	17.861	18.919	PASS
n2	15	20	376000	DFT-s-OFDM 16QAM	100/0	17.883	18.861	PASS
n2	15	20	376000	DFT-s-OFDM 64QAM	100/0	17.878	18.842	PASS
n2	15	20	376000	DFT-s-OFDM 256QAM	100/0	17.847	18.767	PASS
n2	15	20	376000	CP-OFDM QPSK	106/0	18.913	20.059	PASS
n2	15	20	380000	DFT-s-OFDM PI/2 BPSK	100/0	17.894	18.989	PASS
n2	15	20	380000	DFT-s-OFDM QPSK	100/0	17.890	18.816	PASS
n2	15	20	380000	DFT-s-OFDM 16QAM	100/0	17.906	18.814	PASS
n2	15	20	380000	DFT-s-OFDM 64QAM	100/0	17.913	18.885	PASS
n2	15	20	380000	DFT-s-OFDM 256QAM	100/0	17.872	18.719	PASS
n2	15	20	380000	CP-OFDM QPSK	106/0	18.922	20.057	PASS



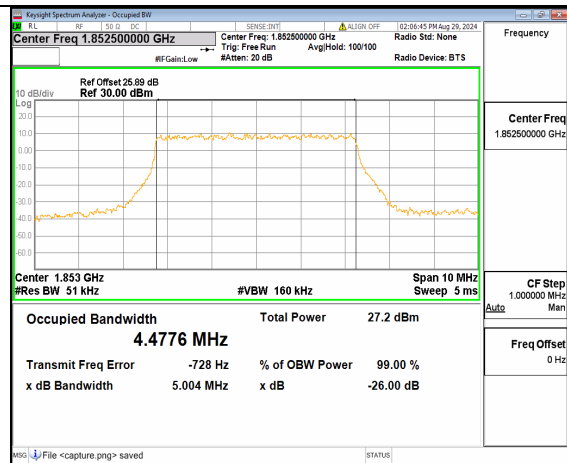
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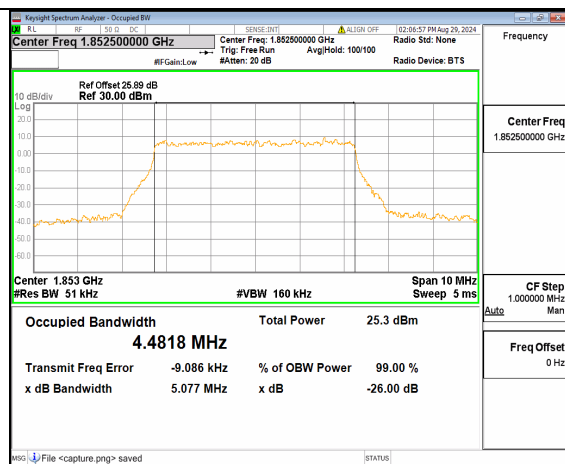
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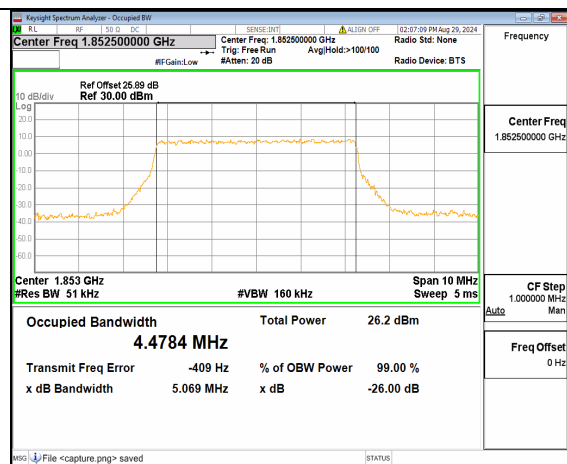
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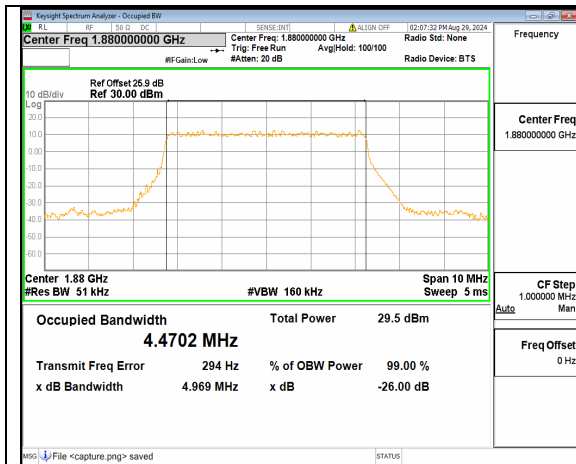
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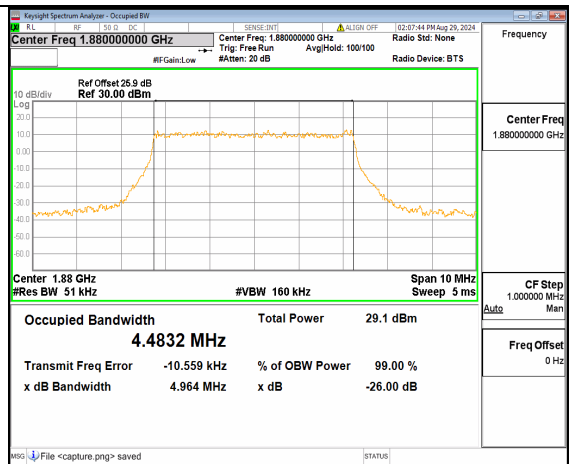
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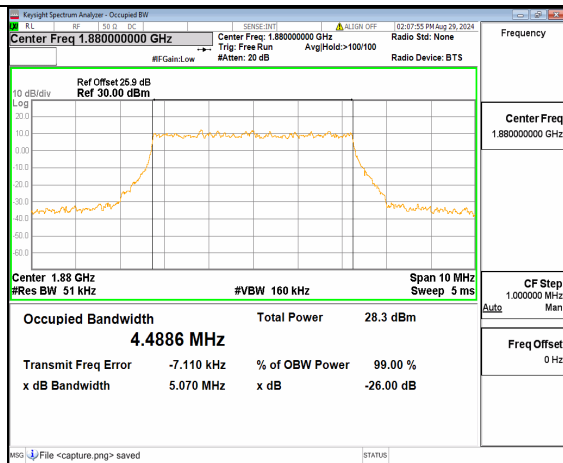
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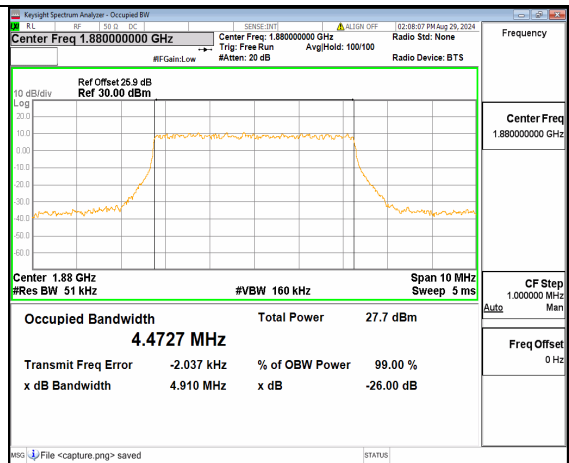
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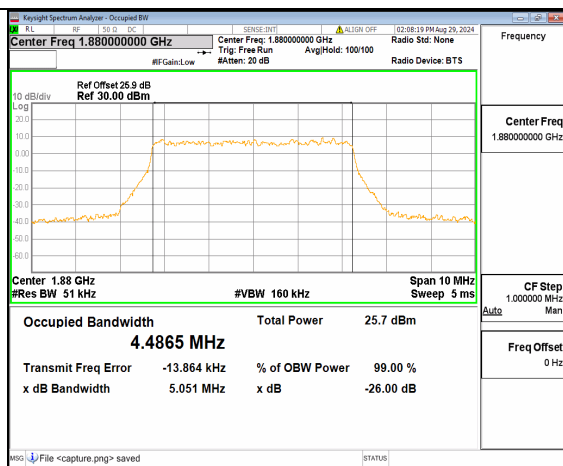
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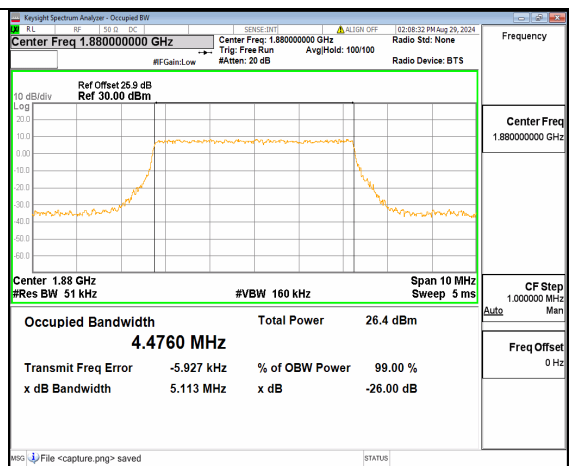
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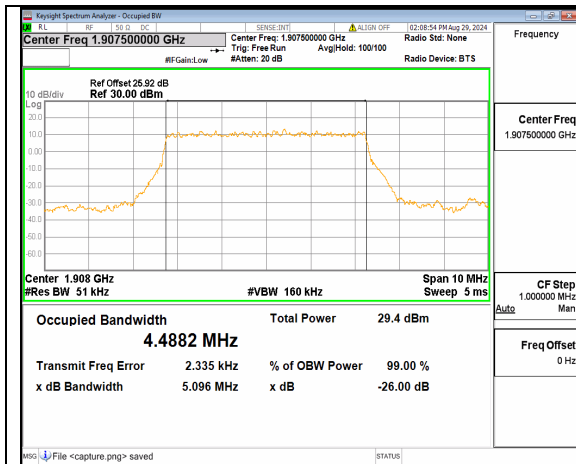
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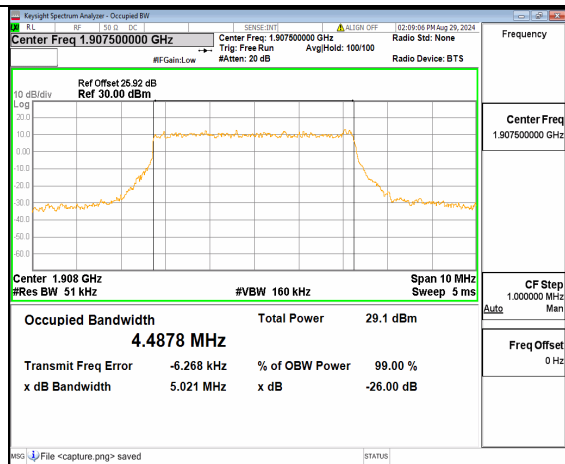
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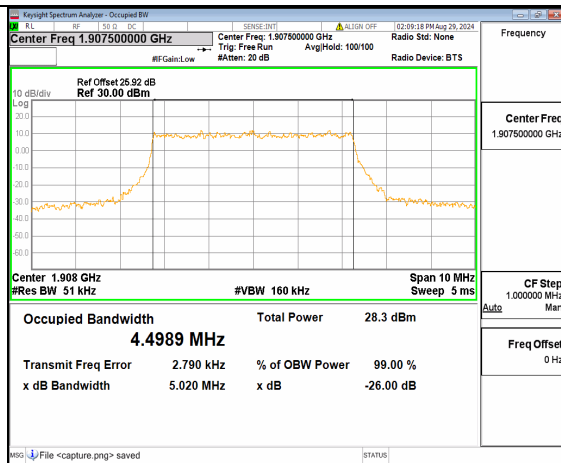
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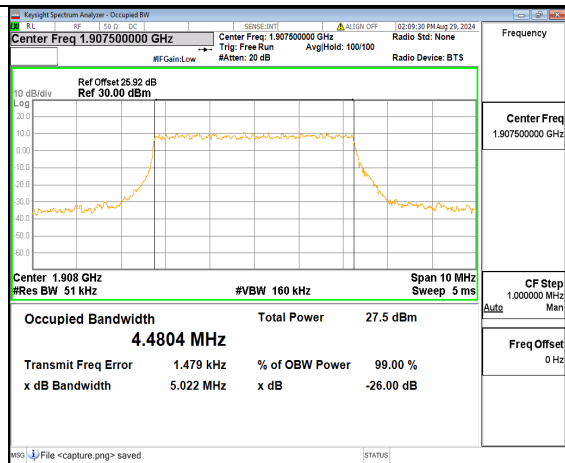
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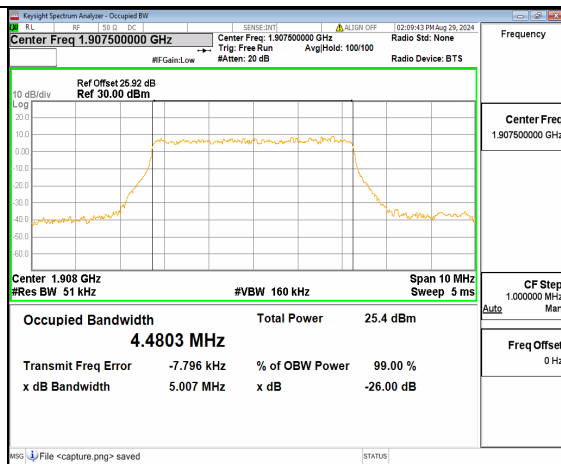
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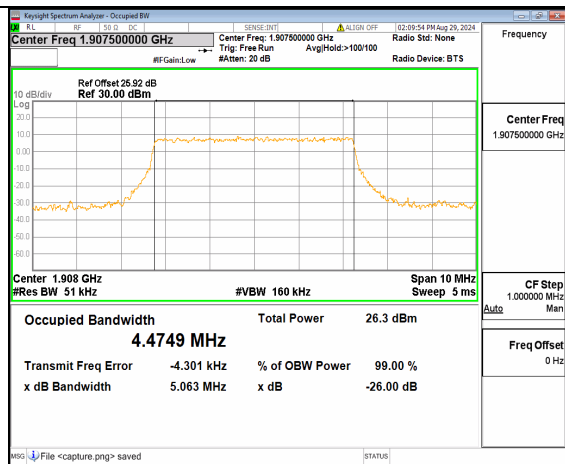
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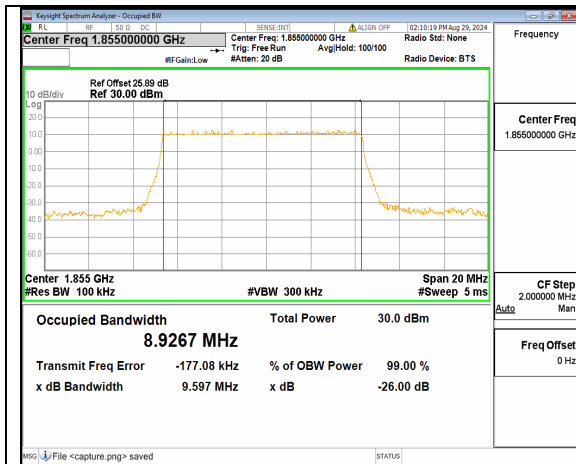
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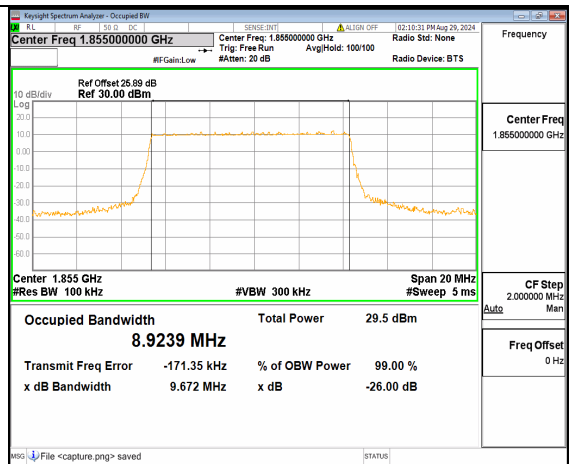
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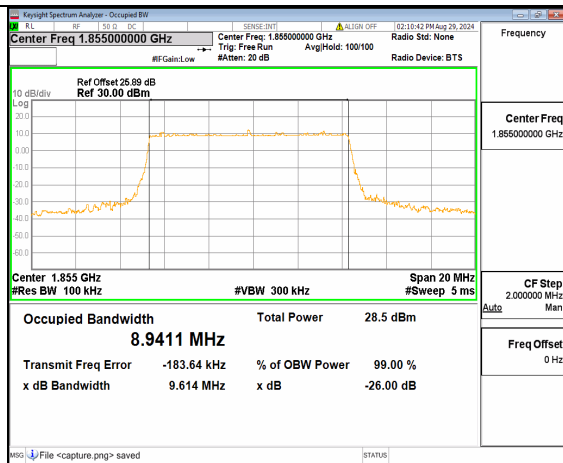
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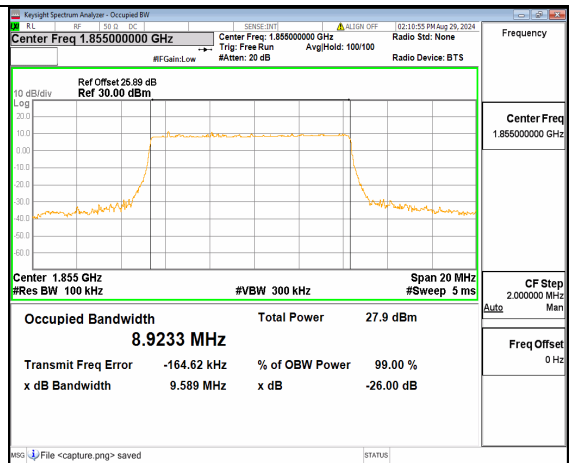
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Outer_Full Low



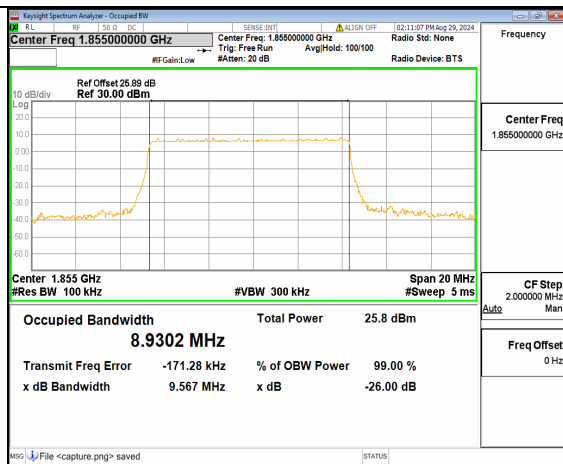
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Outer_Full Low



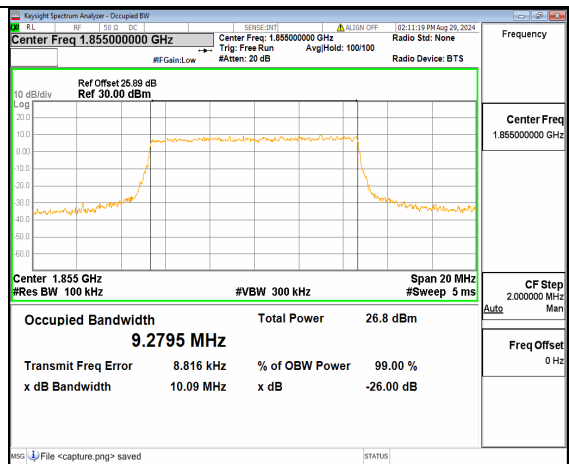
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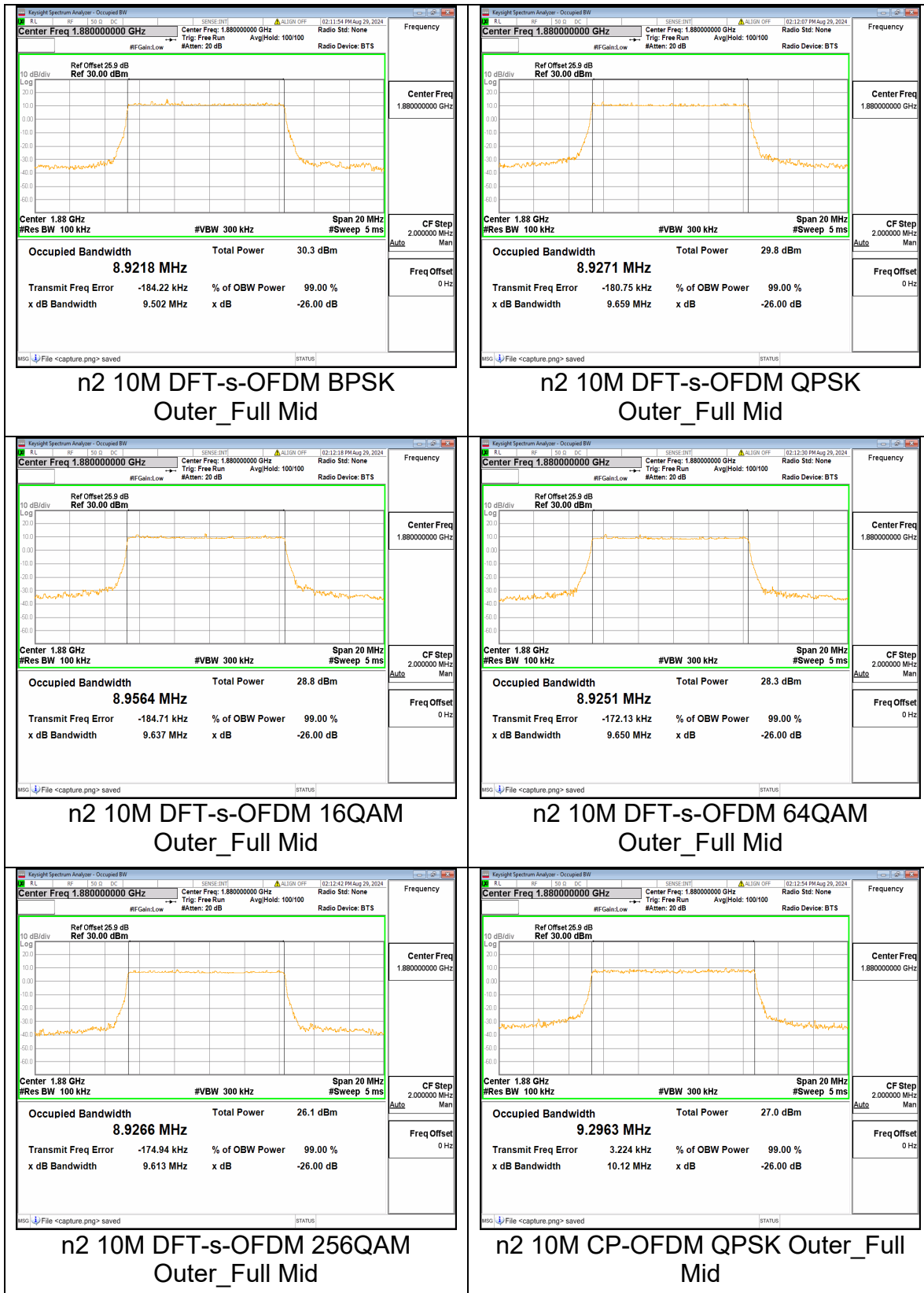
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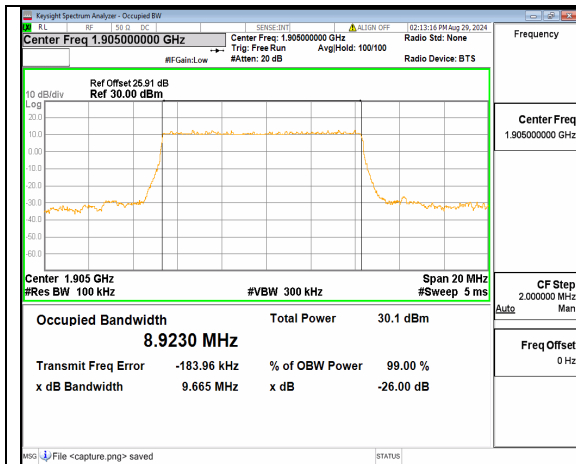
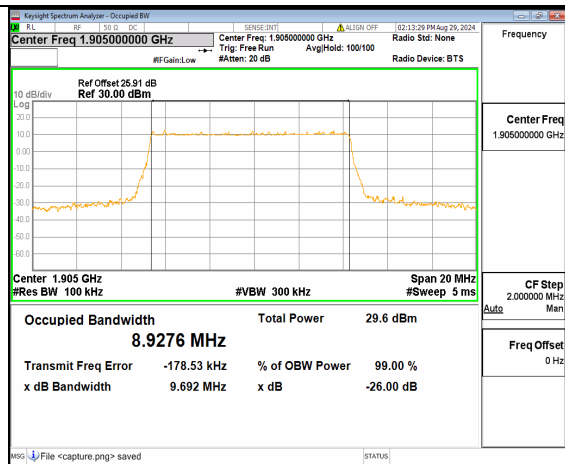
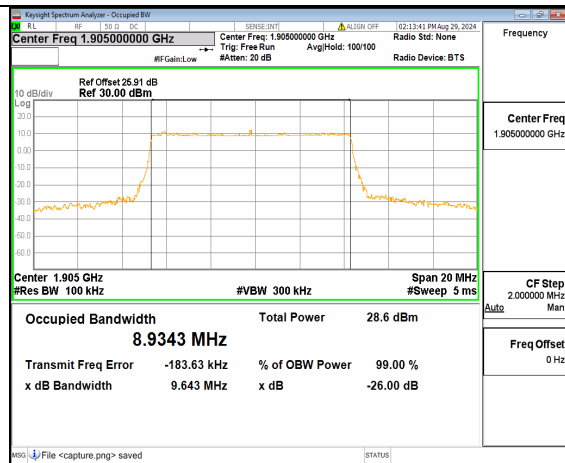
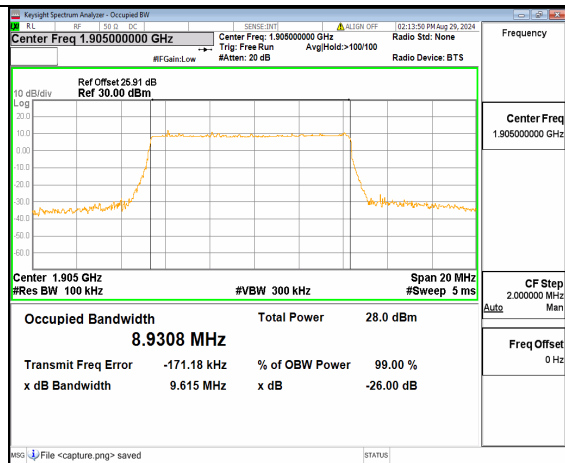
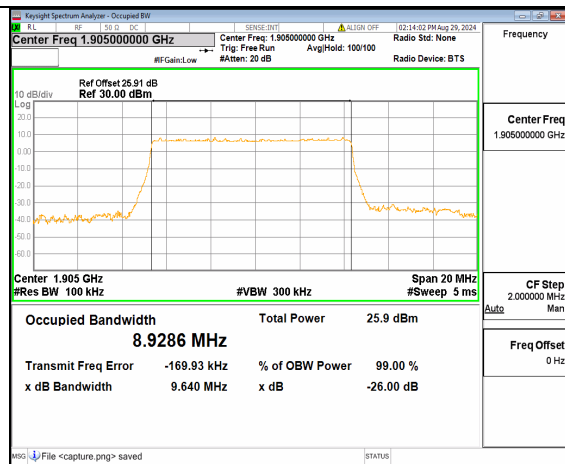
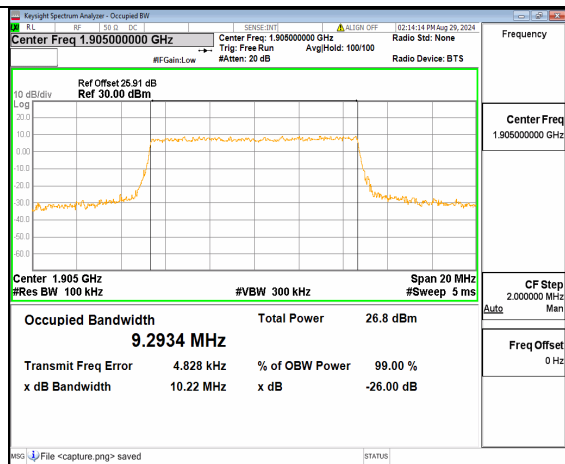


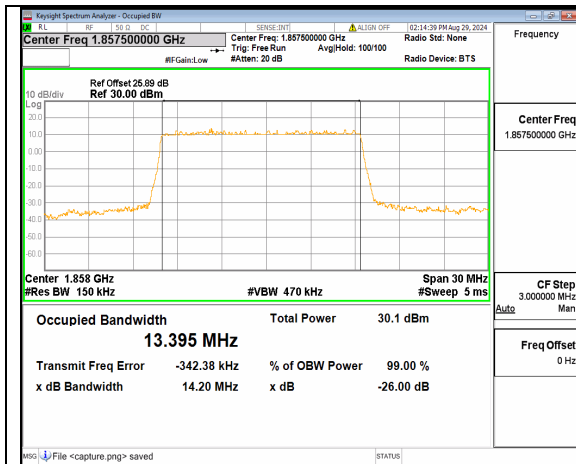
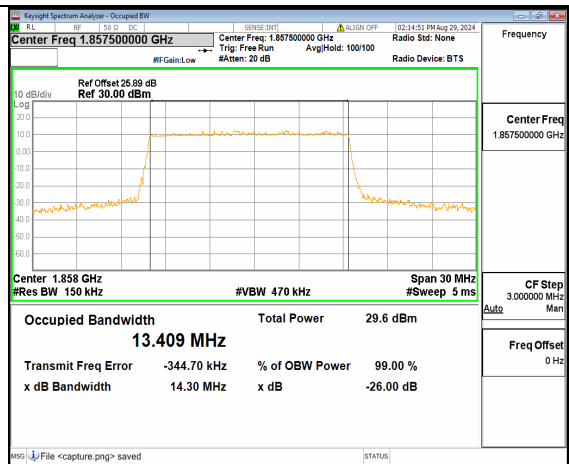
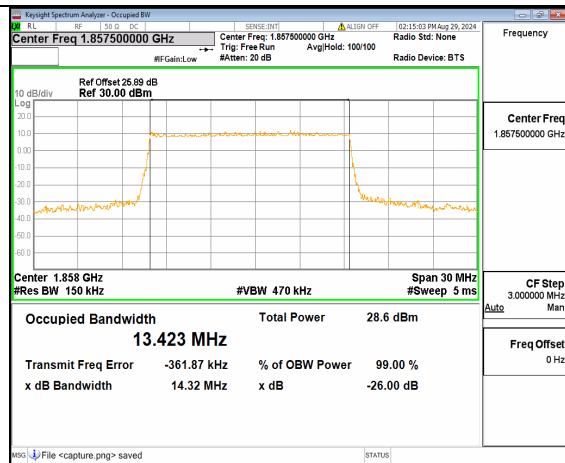
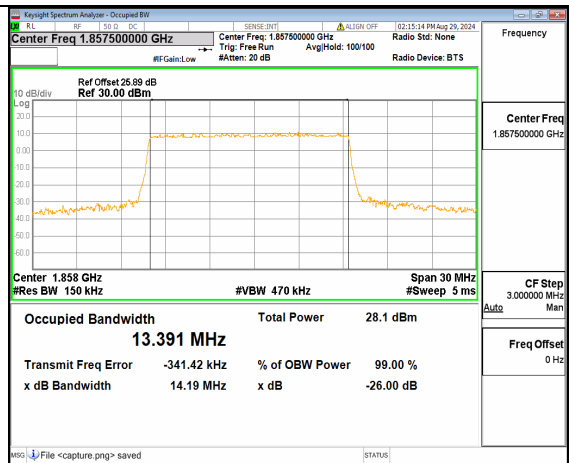
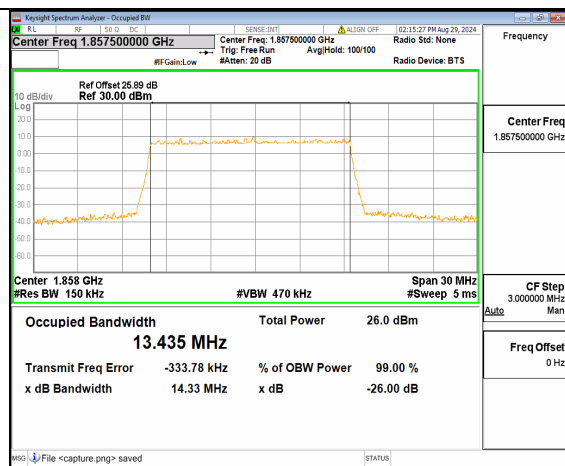
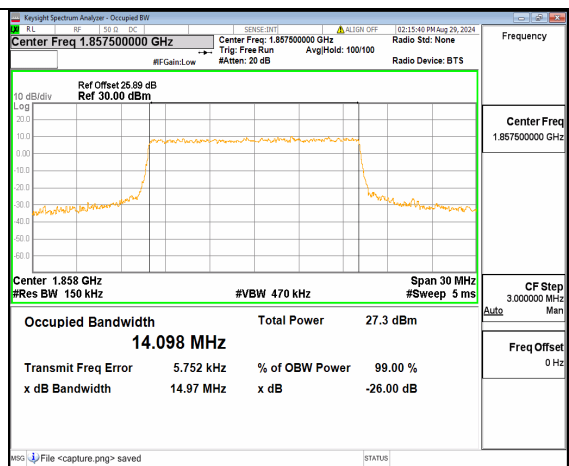
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Outer_Full Low

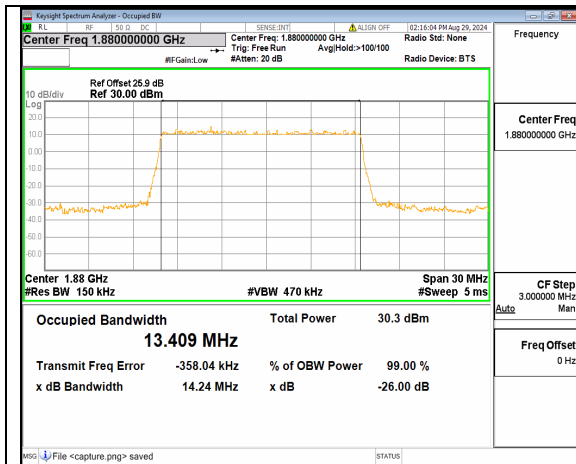
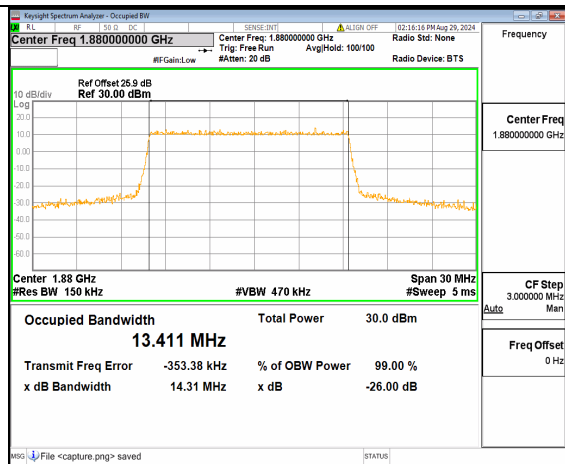
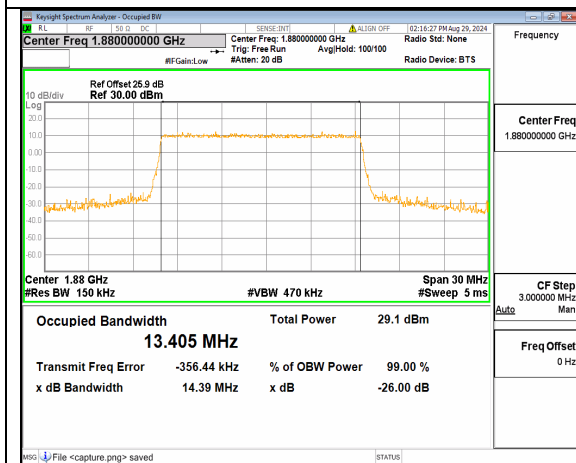
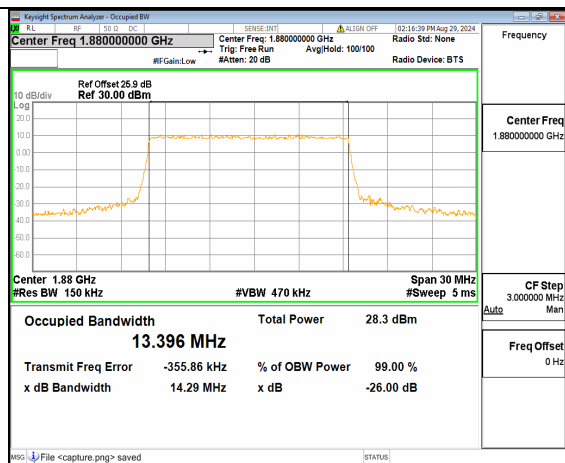
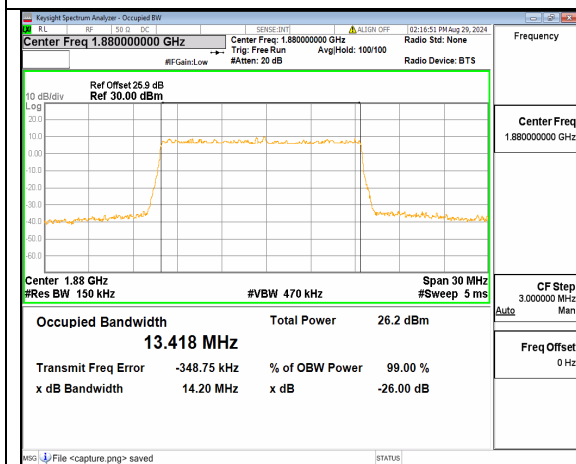
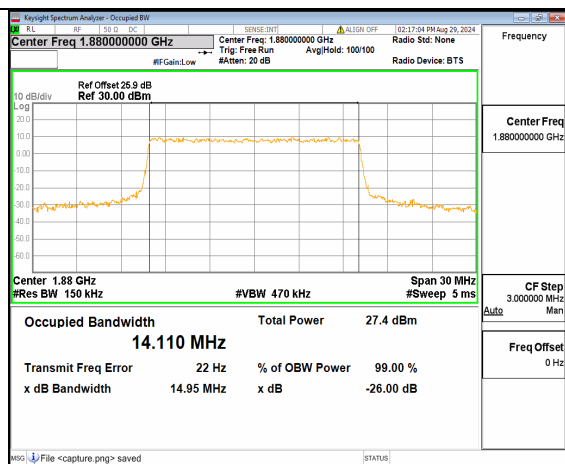


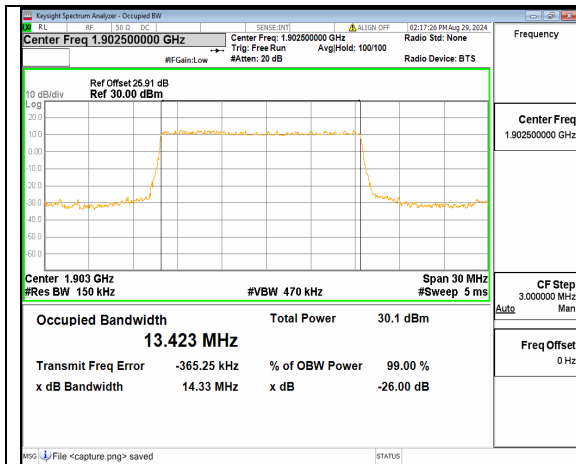
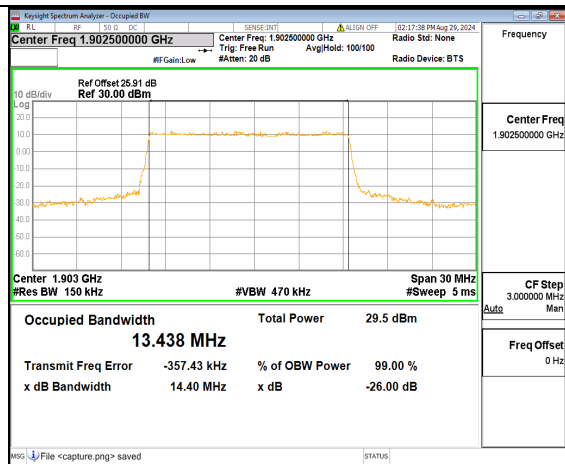
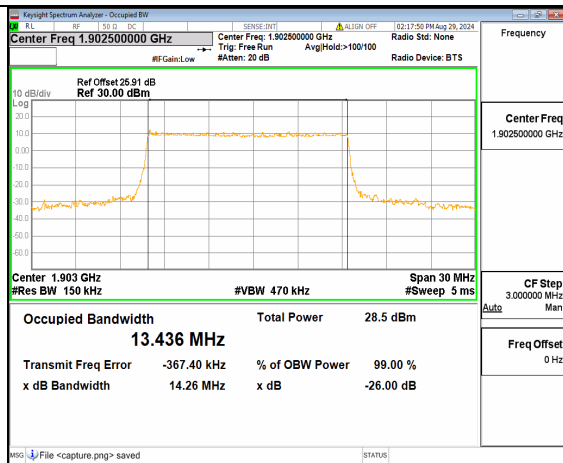
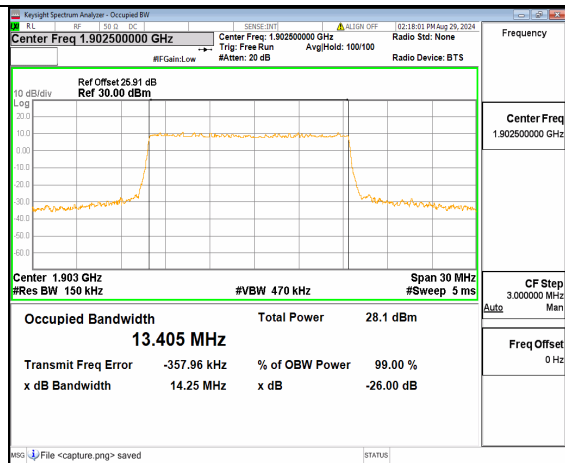
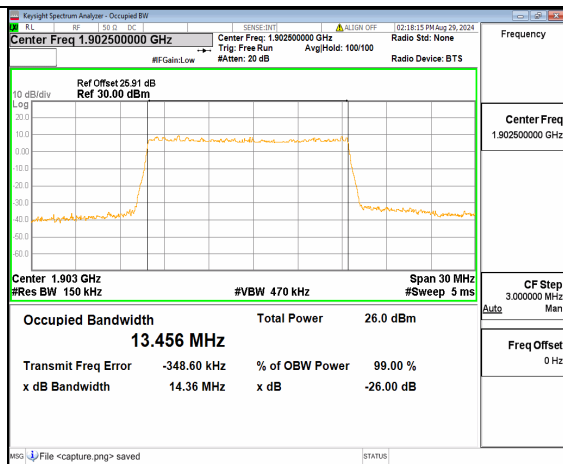
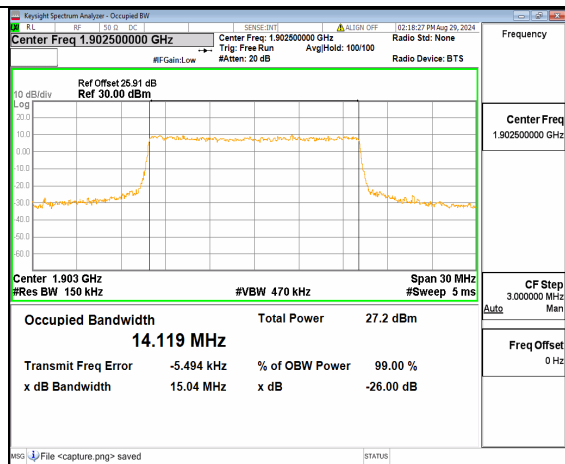
n2 10M CP-OFDM QPSK Outer_Full
Low

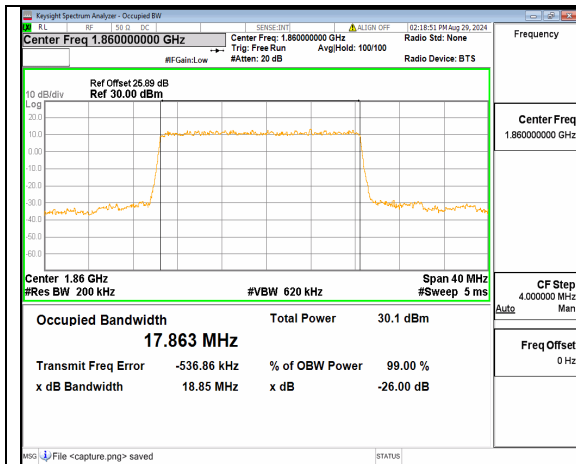
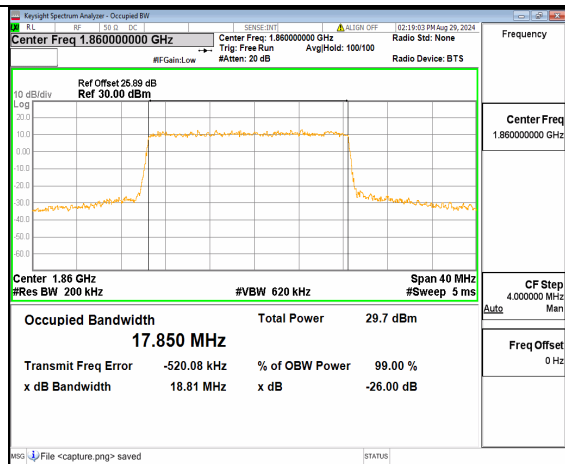
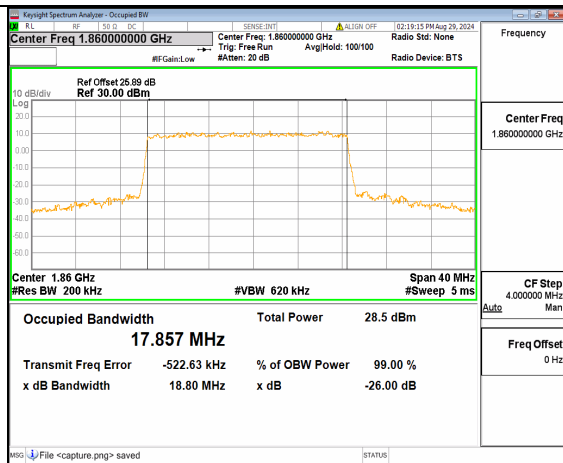
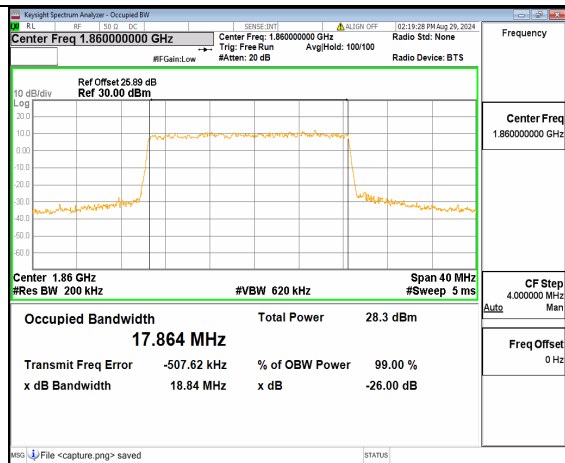
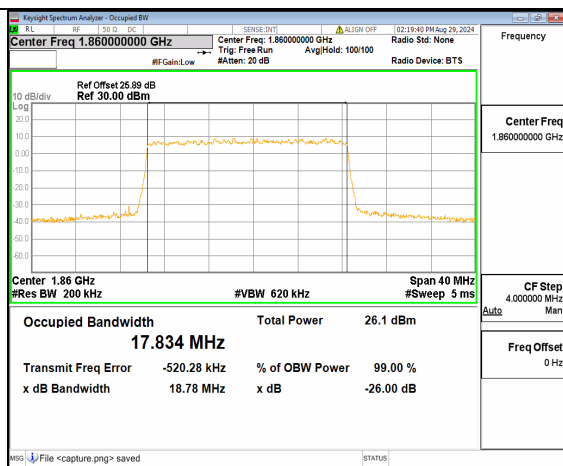
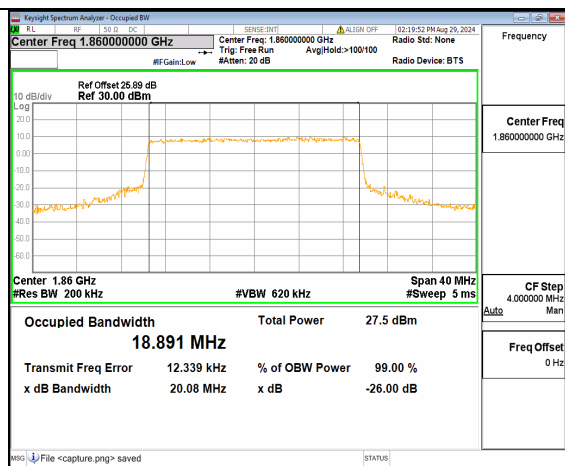


n2 10M DFT-s-OFDM BPSK
Outer_Full Highn2 10M DFT-s-OFDM QPSK
Outer_Full Highn2 10M DFT-s-OFDM 16QAM
Outer_Full Highn2 10M DFT-s-OFDM 64QAM
Outer_Full Highn2 10M DFT-s-OFDM 256QAM
Outer_Full Highn2 10M CP-OFDM QPSK Outer_Full
High

n2 15M DFT-s-OFDM BPSK
Outer_Full Lown2 15M DFT-s-OFDM QPSK
Outer_Full Lown2 15M DFT-s-OFDM 16QAM
Outer_Full Lown2 15M DFT-s-OFDM 64QAM
Outer_Full Lown2 15M DFT-s-OFDM 256QAM
Outer_Full Lown2 15M CP-OFDM QPSK Outer_Full
Low

n2 15M DFT-s-OFDM BPSK
Outer_Full Midn2 15M DFT-s-OFDM QPSK
Outer_Full Midn2 15M DFT-s-OFDM 16QAM
Outer_Full Midn2 15M DFT-s-OFDM 64QAM
Outer_Full Midn2 15M DFT-s-OFDM 256QAM
Outer_Full Midn2 15M CP-OFDM QPSK Outer_Full
Mid

n2 15M DFT-s-OFDM BPSK
Outer_Full Highn2 15M DFT-s-OFDM QPSK
Outer_Full Highn2 15M DFT-s-OFDM 16QAM
Outer_Full Highn2 15M DFT-s-OFDM 64QAM
Outer_Full Highn2 15M DFT-s-OFDM 256QAM
Outer_Full Highn2 15M CP-OFDM QPSK Outer_Full
High

n2 20M DFT-s-OFDM BPSK
Outer_Full Lown2 20M DFT-s-OFDM QPSK
Outer_Full Lown2 20M DFT-s-OFDM 16QAM
Outer_Full Lown2 20M DFT-s-OFDM 64QAM
Outer_Full Lown2 20M DFT-s-OFDM 256QAM
Outer_Full Lown2 20M CP-OFDM QPSK Outer_Full
Low

