



REPORT No.: SZ24100188W01

TEST REPORT

APPLICANT : Rhino Mobility LLC

PRODUCT NAME : Module

MODEL NAME : M3501

BRAND NAME : RHINO

FCC ID : 2AUOUM3501

STANDARD(S) : 47 CFR Part 2
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90
47 CFR Part 96

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Change History		
Version	Date	Reason for change
1.0	2025-01-10	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Rhino Mobility LLC
Applicant Address:	8 The Green, Suite A, Dover, Delaware,19901, USA
Manufacturer:	Rhino Mobility LLC
Manufacturer Address:	8 The Green, Suite A, Dover, Delaware,19901, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Module	
Hardware Version:	SM3501_V1.0	
Software Version:	M3501(001)_20250109	
IMEI:	354668800000410	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
SA Band:	n2, n5, n7, n12, n14, n25, n26, n30, n41, n48, n66, n71, n77, n78	
UE Catgory:	NR RadCap	
Power Class:	PC2:	Not Support
	PC3:	n2, n5, n7, n12, n14, n25, n26, n30, n41, n48, n66, n71, n77, n78
NR CA Band:	Not Support	
EN-DC:	Not Support	
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n7	Tx: 2500MHz-2570MHz
		Rx: 2620MHz-2690MHz
	n12	Tx: 699MHz-716MHz
		Rx: 729MHz-746MHz
	n14	Tx: 1850MHz-1915MHz
		Rx: 1930MHz-1995MHz



	n25	Tx: 1850MHz-1915MHz
		Rx: 1930MHz-1995MHz
	n26	Tx: 814MHz-824MHz
		Rx: 859MHz-869MHz
		Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n30	Tx: 2305MHz-2315MHz
		Rx: 2350MHz-2360MHz
	n41	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	n48	Tx:3550 MHz–3700 MHz
		Rx:3550 MHz–3700 MHz
	n66	Tx: 1710MHz-1780MHz
		Rx: 2110MHz-2200MHz
	n71	Tx: 663MHz-698MHz
		Rx: 617MHz-652MHz
	n77 : (enabling bands)	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3980MHz
		Rx: 3700MHz-3980MHz
	n78: (enabling bands)	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3800MHz
		Rx: 3700MHz-3800MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n7	5MHz, 10MHz, 15MHz, 20MHz
	n12	5MHz, 10MHz, 15MHz
	n14	5MHz, 10MHz
	n25	5MHz, 10MHz, 15MHz, 20MHz
	n26	5MHz, 10MHz, 15MHz, 20MHz
	n30	5MHz, 10MHz
	n41	10MHz, 15MHz, 20MHz
	n48	10MHz, 15MHz, 20MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz
	n71	5MHz, 10MHz, 15MHz, 20MHz
	n77	10MHz, 15MHz, 20MHz
	n78	10MHz, 15MHz, 20MHz

Antenna Type:	PIFA Antenna	
Antenna Gain:	n2	1.14 dBi
	n5	1.71 dBi
	n7	-0.18 dBi
	n12	1.88 dBi
	n14	1.65 dBi
	n25	1.14 dBi
	n26	1.71 dBi
	n30	-1.66 dBi
	n41	0.06 dBi
	n48	-0.42 dBi
	n66	-0.24 dBi
	n71	-1.26 dBi
	n77	1.01 dBi
	n78	1.01 dBi

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

Note 2: 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.

1.3. Maximum ERP/EIRP and Emission Designator

EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

ERP (dBm) = EIPR (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	/	/	/	4.4808	4M48G7D
	QPSK	23.05	24.19	0.262	4.483	4M48G7D
	16QAM	/	/	/	4.4972	4M50W7D
	64QAM	/	/	/	4.4779	4M48W7D
	256QAM	/	/	/	4.5048	4M50W7D
	CP-QPSK	/	/	/	4.4855	4M49G7D
10	PI/2 BPSK	/	/	/	8.9487	8M95G7D
	QPSK	23.15	24.29	0.269	8.9574	8M96G7D
	16QAM	/	/	/	8.9677	8M97W7D
	64QAM	/	/	/	8.9504	8M95W7D
	256QAM	/	/	/	8.9287	8M93W7D
	CP-QPSK	/	/	/	9.3025	9M30G7D
15	PI/2 BPSK	/	/	/	13.445	13M4G7D
	QPSK	23.41	24.55	0.285	13.431	13M4G7D
	16QAM	/	/	/	13.45	13M5W7D
	64QAM	/	/	/	13.463	13M5W7D
	256QAM	/	/	/	13.453	13M5W7D
	CP-QPSK	/	/	/	14.122	14M1G7D
20	PI/2 BPSK	23.53	24.67	0.293	17.887	17M9G7D
	QPSK	23.70	24.84	0.305	17.914	17M9G7D
	16QAM	22.53	23.67	0.233	17.893	17M9W7D
	64QAM	21.06	22.20	0.166	17.884	17M9W7D
	256QAM	18.89	20.03	0.101	17.897	17M9W7D
	CP-QPSK	/	/	/	18.956	19M0G7D



n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4816	4M48G7D
	QPSK	23.21	22.77	0.189	4.4838	4M48G7D
	16QAM	/	/	/	4.5056	4M51W7D
	64QAM	/	/	/	4.4956	4M50W7D
	256QAM	/	/	/	4.4917	4M49W7D
	CP-QPSK	/	/	/	4.492	4M49G7D
10	PI/2 BPSK	/	/	/	8.9519	8M95G7D
	QPSK	23.17	22.73	0.187	8.9428	8M94G7D
	16QAM	/	/	/	8.9682	8M97W7D
	64QAM	/	/	/	8.9307	8M93W7D
	256QAM	/	/	/	8.916	8M92W7D
	CP-QPSK	/	/	/	9.3016	9M30G7D
15	PI/2 BPSK	/	/	/	13.463	13M5G7D
	QPSK	23.13	22.69	0.186	13.466	13M5G7D
	16QAM	/	/	/	13.462	13M5W7D
	64QAM	/	/	/	13.472	13M5W7D
	256QAM	/	/	/	13.446	13M5W7D
	CP-QPSK	/	/	/	14.131	14M1G7D
20	PI/2 BPSK	23.26	22.82	0.191	17.939	17M9G7D
	QPSK	23.36	22.92	0.196	17.92	17M9G7D
	16QAM	22.40	21.96	0.157	17.895	17M9W7D
	64QAM	20.81	20.37	0.109	17.929	17M9W7D
	256QAM	18.63	18.19	0.066	17.883	17M9W7D
	CP-QPSK	/	/	/	18.96	19M0G7D

n7						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4949	4M49G7D
	QPSK	23.49	23.31	0.214	4.4809	4M48G7D
	16QAM	/	/	/	4.5	4M50W7D
	64QAM	/	/	/	4.4867	4M49W7D
	256QAM	/	/	/	4.4998	4M50W7D
	CP-QPSK	/	/	/	4.4973	4M50G7D
10	PI/2 BPSK	/	/	/	8.959	8M96G7D
	QPSK	23.52	23.34	0.216	8.947	8M95G7D
	16QAM	/	/	/	8.9684	8M97W7D
	64QAM	/	/	/	8.9348	8M93W7D
	256QAM	/	/	/	8.9257	8M93W7D
	CP-QPSK	/	/	/	9.2974	9M30G7D
15	PI/2 BPSK	/	/	/	13.435	13M4G7D
	QPSK	23.52	23.34	0.216	13.46	13M5G7D
	16QAM	/	/	/	13.458	13M5W7D
	64QAM	/	/	/	13.426	13M4W7D
	256QAM	/	/	/	13.438	13M4W7D
	CP-QPSK	/	/	/	14.13	14M1G7D
20	PI/2 BPSK	23.66	23.48	0.223	17.967	18M0G7D
	QPSK	23.68	23.50	0.224	17.923	17M9G7D
	16QAM	23.27	23.09	0.204	17.906	17M9W7D
	64QAM	21.74	21.56	0.143	17.935	17M9W7D
	256QAM	19.31	19.13	0.082	17.915	17M9W7D
	CP-QPSK	/	/	/	18.996	19M0G7D



n12						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4861	4M49G7D
	QPSK	22.96	22.69	0.186	4.4752	4M48G7D
	16QAM	/	/	/	4.4939	4M49W7D
	64QAM	/	/	/	4.4816	4M48W7D
	256QAM	/	/	/	4.4992	4M50W7D
	CP-QPSK	/	/	/	4.4763	4M48G7D
10	PI/2 BPSK	/	/	/	8.9356	8M94G7D
	QPSK	22.96	22.69	0.186	8.943	8M94G7D
	16QAM	/	/	/	8.9484	8M95W7D
	64QAM	/	/	/	8.9257	8M93W7D
	256QAM	/	/	/	8.9177	8M92W7D
	CP-QPSK	/	/	/	9.2766	9M28G7D
15	PI/2 BPSK	23.05	22.78	0.190	13.382	13M4G7D
	QPSK	23.20	22.93	0.196	13.409	13M4G7D
	16QAM	22.19	21.92	0.156	13.426	13M4W7D
	64QAM	20.70	20.43	0.110	13.384	13M4W7D
	256QAM	18.80	18.53	0.071	13.403	13M4W7D
	CP-QPSK	/	/	/	14.081	14M1G7D



n14						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.5045	4M50G7D
	QPSK	23.36	22.86	0.193	4.483	4M48G7D
	16QAM	/	/	/	4.5053	4M51W7D
	64QAM	/	/	/	4.5011	4M50W7D
	256QAM	/	/	/	4.4874	4M49W7D
	CP-QPSK	/	/	/	4.4877	4M49G7D
10	PI/2 BPSK	23.17	22.67	0.185	8.9098	8M91G7D
	QPSK	23.40	22.90	0.195	8.9098	8M91G7D
	16QAM	22.36	21.86	0.153	8.9176	8M92W7D
	64QAM	20.86	20.36	0.109	8.9379	8M94W7D
	256QAM	18.51	18.01	0.063	8.9229	8M92W7D
	CP-QPSK	/	/	/	9.2887	9M29G7D

n25						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.48	4M48G7D
	QPSK	23.08	24.22	0.264	4.4873	4M49G7D
	16QAM	/	/	/	4.5042	4M50W7D
	64QAM	/	/	/	4.5002	4M50W7D
	256QAM	/	/	/	4.4962	4M50W7D
	CP-QPSK	/	/	/	4.4873	4M49G7D
10	PI/2 BPSK	/	/	/	8.9631	8M96G7D
	QPSK	23.15	24.29	0.269	8.9597	8M96G7D
	16QAM	/	/	/	8.9802	8M98W7D
	64QAM	/	/	/	8.9513	8M95W7D
	256QAM	/	/	/	8.9411	8M94W7D
	CP-QPSK	/	/	/	9.3039	9M30G7D
15	PI/2 BPSK	/	/	/	13.442	13M4G7D
	QPSK	23.36	24.50	0.282	13.453	13M5G7D
	16QAM	/	/	/	13.453	13M5W7D
	64QAM	/	/	/	13.465	13M5W7D
	256QAM	/	/	/	13.456	13M5W7D
	CP-QPSK	/	/	/	14.135	14M1G7D
20	PI/2 BPSK	23.43	24.57	0.286	17.916	17M9G7D
	QPSK	23.66	24.80	0.302	17.909	17M9G7D
	16QAM	22.57	23.71	0.235	17.936	17M9W7D
	64QAM	21.01	22.15	0.164	17.932	17M9W7D
	256QAM	18.57	19.71	0.094	17.878	17M9W7D
	CP-QPSK	/	/	/	18.981	19M0G7D



n26(814-824MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.5041	4M50G7D
	QPSK	23.23	22.79	0.190	4.4952	4M50G7D
	16QAM	/	/	/	4.5145	4M51W7D
	64QAM	/	/	/	4.4956	4M50W7D
	256QAM	/	/	/	4.5159	4M52W7D
	CP-QPSK	/	/	/	4.5043	4M50G7D
10	PI/2 BPSK	23.18	22.74	0.188	8.9411	8M94G7D
	QPSK	23.32	22.88	0.194	8.969	8M97G7D
	16QAM	22.45	22.01	0.159	8.9675	8M97W7D
	64QAM	20.96	20.52	0.113	8.9739	8M97W7D
	256QAM	18.61	18.17	0.066	8.9553	8M96W7D
	CP-QPSK	/	/	/	9.3017	9M30G7D

n26(824-849MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.5034	4M50G7D
	QPSK	23.27	22.83	0.192	4.5271	4M53G7D
	16QAM	/	/	/	4.5255	4M53W7D
	64QAM	/	/	/	4.5118	4M51W7D
	256QAM	/	/	/	4.5111	4M51W7D
	CP-QPSK	/	/	/	4.5037	4M50G7D
10	PI/2 BPSK	/	/	/	8.9583	8M96G7D
	QPSK	23.18	22.74	0.188	8.9627	8M96G7D
	16QAM	/	/	/	8.9559	8M96W7D
	64QAM	/	/	/	8.9729	8M97W7D
	256QAM	/	/	/	8.9493	8M95W7D
	CP-QPSK	/	/	/	9.3153	9M32G7D
15	PI/2 BPSK	/	/	/	13.442	13M4G7D
	QPSK	23.20	22.76	0.189	13.497	13M5G7D
	16QAM	/	/	/	13.494	13M5W7D
	64QAM	/	/	/	13.507	13M5W7D
	256QAM	/	/	/	13.486	13M5W7D



	CP-QPSK	/	/	/	14.158	14M2G7D
20	PI/2 BPSK	23.31	22.87	0.194	17.927	17M9G7D
	QPSK	23.41	22.97	0.198	17.964	18M0G7D
	16QAM	22.44	22.00	0.158	17.936	17M9W7D
	64QAM	20.86	20.42	0.110	17.955	18M0W7D
	256QAM	18.62	18.18	0.066	17.899	17M9W7D
	CP-QPSK	/	/	/	18.966	19M0G7D

n30						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	22.83	21.17	0.131	4.5002	4M50G7D
	QPSK	22.98	21.32	0.136	4.4918	4M49G7D
	16QAM	21.79	20.13	0.103	4.522	4M52W7D
	64QAM	20.34	18.68	0.074	4.512	4M51W7D
	256QAM	17.97	16.31	0.043	4.5102	4M51W7D
	CP-QPSK	/	/	/	4.4885	4M49G7D

n41						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.6034	8M60G7D
	QPSK	22.62	22.68	0.185	8.6221	8M62G7D
	16QAM	/	/	/	8.6395	8M64W7D
	64QAM	/	/	/	8.6076	8M61W7D
	256QAM	/	/	/	8.6304	8M63W7D
	CP-QPSK	/	/	/	8.6237	8M62G7D
15	PI/2 BPSK	/	/	/	12.904	12M9G7D
	QPSK	22.68	22.74	0.188	12.919	12M9G7D
	16QAM	/	/	/	12.895	12M9W7D
	64QAM	/	/	/	12.899	12M9W7D
	256QAM	/	/	/	12.88	12M9W7D
	CP-QPSK	/	/	/	13.605	13M6G7D
20	PI/2 BPSK	22.68	22.74	0.188	17.872	17M9G7D
	QPSK	22.71	22.77	0.189	17.898	17M9G7D
	16QAM	21.57	21.63	0.146	17.894	17M9W7D
	64QAM	19.87	19.93	0.098	17.918	17M9W7D
	256QAM	17.84	17.90	0.062	17.903	17M9W7D
	CP-QPSK	/	/	/	18.269	18M3G7D

n48						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.6316	8M63G7D
	QPSK	22.43	22.01	0.159	8.6335	8M63G7D
	16QAM	/	/	/	8.6466	8M65W7D
	64QAM	/	/	/	8.6114	8M61W7D
	256QAM	/	/	/	8.6182	8M62W7D
	CP-QPSK	/	/	/	8.6066	8M61G7D
15	PI/2 BPSK	/	/	/	12.899	12M9G7D
	QPSK	22.53	22.11	0.163	12.899	12M9G7D
	16QAM	/	/	/	12.903	12M9W7D
	64QAM	/	/	/	12.892	12M9W7D
	256QAM	/	/	/	12.879	12M9W7D
	CP-QPSK	/	/	/	13.587	13M6G7D
20	PI/2 BPSK	22.64	22.22	0.167	17.875	17M9G7D
	QPSK	22.71	22.29	0.169	17.929	17M9G7D
	16QAM	21.64	21.22	0.132	17.905	17M9W7D
	64QAM	19.87	19.45	0.088	17.937	17M9W7D
	256QAM	17.92	17.50	0.056	17.89	17M9W7D
	CP-QPSK	/	/	/	18.236	18M2G7D

n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4953	4M50G7D
	QPSK	22.79	22.55	0.180	4.4958	4M50G7D
	16QAM	/	/	/	4.5171	4M52W7D
	64QAM	/	/	/	4.4973	4M50W7D
	256QAM	/	/	/	4.5169	4M52W7D
	CP-QPSK	/	/	/	4.4971	4M50G7D
10	PI/2 BPSK	/	/	/	8.9381	8M94G7D
	QPSK	22.87	22.63	0.183	8.9713	8M97G7D
	16QAM	/	/	/	8.998	9M00W7D
	64QAM	/	/	/	8.9602	8M96W7D
	256QAM	/	/	/	8.9562	8M96W7D
	CP-QPSK	/	/	/	9.3084	9M31G7D
15	PI/2 BPSK	/	/	/	13.433	13M4G7D
	QPSK	22.82	22.58	0.181	13.466	13M5G7D
	16QAM	/	/	/	13.489	13M5W7D
	64QAM	/	/	/	13.492	13M5W7D
	256QAM	/	/	/	13.468	13M5W7D
	CP-QPSK	/	/	/	14.154	14M2G7D
20	PI/2 BPSK	22.77	22.53	0.179	17.947	18M0G7D
	QPSK	23.03	22.79	0.190	17.94	17M9G7D
	16QAM	21.85	21.61	0.145	17.948	17M9W7D
	64QAM	20.31	20.07	0.102	17.948	17M9W7D
	256QAM	17.99	17.75	0.060	17.921	17M9W7D
	CP-QPSK	/	/	/	18.977	19M0G7D

n71						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.5026	4M50G7D
	QPSK	22.89	19.48	0.089	4.4916	4M49G7D
	16QAM	/	/	/	4.5172	4M52W7D
	64QAM	/	/	/	4.5065	4M51W7D
	256QAM	/	/	/	4.5145	4M51W7D
	CP-QPSK	/	/	/	4.4954	4M50G7D
10	PI/2 BPSK	/	/	/	8.9384	8M94G7D
	QPSK	22.77	19.36	0.086	8.9636	8M96G7D
	16QAM	/	/	/	8.9961	9M00W7D
	64QAM	/	/	/	8.9555	8M96W7D
	256QAM	/	/	/	8.9496	8M95W7D
	CP-QPSK	/	/	/	9.2961	9M30G7D
15	PI/2 BPSK	/	/	/	13.409	13M4G7D
	QPSK	22.89	19.48	0.089	13.457	13M5G7D
	16QAM	/	/	/	13.462	13M5W7D
	64QAM	/	/	/	13.462	13M5W7D
	256QAM	/	/	/	13.437	13M4W7D
	CP-QPSK	/	/	/	14.12	14M1G7D
20	PI/2 BPSK	22.85	19.44	0.088	17.882	17M9G7D
	QPSK	23.01	19.60	0.091	17.862	17M9G7D
	16QAM	21.99	18.58	0.072	17.861	17M9W7D
	64QAM	20.48	17.07	0.051	17.891	17M9W7D
	256QAM	18.60	15.19	0.033	17.843	17M8W7D
	CP-QPSK	/	/	/	18.907	18M9G7D

n77(3450-3550MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.6066	8M61G7D
	QPSK	22.57	23.58	0.228	8.618	8M62G7D
	16QAM	/	/	/	8.6301	8M63W7D
	64QAM	/	/	/	8.6058	8M61W7D
	256QAM	/	/	/	8.6124	8M61W7D
	CP-QPSK	/	/	/	8.6039	8M60G7D
15	PI/2 BPSK	/	/	/	12.873	12M9G7D
	QPSK	22.65	23.66	0.232	12.873	12M9G7D
	16QAM	/	/	/	12.904	12M9W7D
	64QAM	/	/	/	12.875	12M9W7D
	256QAM	/	/	/	12.861	12M9W7D
	CP-QPSK	/	/	/	13.601	13M6G7D
20	PI/2 BPSK	23.03	24.04	0.254	17.87	17M9G7D
	QPSK	23.15	24.16	0.261	17.877	17M9G7D
	16QAM	21.92	22.93	0.196	17.914	17M9W7D
	64QAM	20.23	21.24	0.133	17.957	18M0W7D
	256QAM	18.33	19.34	0.086	17.868	17M9W7D
	CP-QPSK	/	/	/	18.223	18M2G7D



n77(3700-3980MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.6	8M60G7D
	QPSK	22.87	23.88	0.244	8.5971	8M60G7D
	16QAM	/	/	/	8.6098	8M61W7D
	64QAM	/	/	/	8.6059	8M61W7D
	256QAM	/	/	/	8.6192	8M62W7D
	CP-QPSK	/	/	/	8.6315	8M63G7D
15	PI/2 BPSK	/	/	/	12.854	12M9G7D
	QPSK	23.04	24.05	0.254	12.897	12M9G7D
	16QAM	/	/	/	12.889	12M9W7D
	64QAM	/	/	/	12.895	12M9W7D
	256QAM	/	/	/	12.869	12M9W7D
	CP-QPSK	/	/	/	13.586	13M6G7D
20	PI/2 BPSK	23.03	24.04	0.254	17.859	17M9G7D
	QPSK	23.15	24.16	0.261	17.854	17M9G7D
	16QAM	21.88	22.89	0.195	17.94	17M9W7D
	64QAM	20.16	21.17	0.131	17.906	17M9W7D
	256QAM	18.23	19.24	0.084	17.859	17M9W7D
	CP-QPSK	/	/	/	18.224	18M2G7D



n78(3450-3550MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.03	24.04	0.254	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
15	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.92	23.93	0.247	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
20	PI/2 BPSK	23.01	24.02	0.252	N/A	N/A
	QPSK	23.12	24.13	0.259	N/A	N/A
	16QAM	21.90	22.91	0.195	N/A	N/A
	64QAM	20.22	21.23	0.133	N/A	N/A
	256QAM	18.32	19.33	0.086	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

n78(3700-3800MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.86	23.87	0.244	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
15	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	23.06	24.07	0.255	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
20	PI/2 BPSK	23.00	24.01	0.252	N/A	N/A
	QPSK	23.13	24.14	0.259	N/A	N/A
	16QAM	21.86	22.87	0.194	N/A	N/A
	64QAM	20.24	21.25	0.133	N/A	N/A
	256QAM	18.19	19.20	0.083	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, Part 90 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 90	Miscellaneous Wireless Communications Services
6	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

n2 & n25			
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& n26(824-849MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 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

n7 & n41			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	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, §27.53(m)(4)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



n12			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤3W	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, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -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".

n26(814-824MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §90.635(b)	ERP ≤3W	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, §90.691(a)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §90.691(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §90.691(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §90.543	No limit	N/A



n14			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §90.542(a) (7)	ERP ≤3W	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, §90.543(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §90.543(f)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §90.543(c)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §90.543	No limit	N/A

n30			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	ERP ≤250mW	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, §27.53(a)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

n48			
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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

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
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".



n71			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤ 3W	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, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

n77(3450~3550MHz) & n78(3450~3550MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(K)(3)	EIRP ≤ 1W	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) & n78(3700~3800MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP $\leq$ 1W	PASS
Peak-Average Ratio	§27.50(j)(4)	$\leq$ 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)	$\leq$ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	$\leq$ -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	Zhong Xiangyun Li Hanbin	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.			

1.5. Environmental Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60

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, n25, the ERP of Mobile and portable stations are limited to 2 watts EIRP.

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 22.913 (a)(5) for n5, n26(824-849MHz), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for n7, n41, mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50(c)(10) for n12, n71, Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to FCC section 90.635(b) for n26 (814-824MHz), the maximum output power of the transmitter for mobile stations is 100 watts.

According to FCC section 90.542 (a)(7)for n14, Portable stations (hand-held devices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP.

According to FCC section 27.50 (a)(3)for n30, Mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average E.I.R.P. must not exceed 50 mill watts within any 1 megahertz of authorized bandwidth.

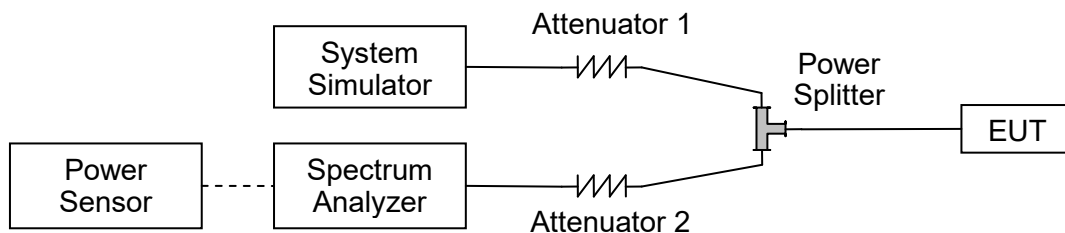
According to FCC section 96.41(b) for n48, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table as below. Paragraph

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

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.

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

Worse case:

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	23.16	23.33	23.14
20		1	53	23.25	23.34	23.15
20		1	104	23.19	23.34	23.15
20		50	1	22.86	22.98	22.86
20		50	25	23.35	23.53	23.38
20		50	50	22.88	23.08	22.88
20		100	0	22.92	23.01	22.90
20	DFT-s-OFDM QPSK	1	1	23.48	23.70	23.55
20		1	53	23.51	23.47	23.36
20		1	104	23.48	23.42	23.50
20		50	1	22.44	22.72	22.55
20		50	25	22.92	23.17	23.00
20		50	50	22.47	22.57	22.48
20		100	0	22.46	22.53	22.54
20	DFT-s-OFDM 16QAM	1	1	22.52	22.53	22.44
20	DFT-s-OFDM 64QAM	1	1	20.95	21.06	20.93
20	DFT-s-OFDM 256QAM	1	1	18.60	18.89	18.82
20	CP-OFDM QPSK	1	1	22.01	21.96	22.01
20	CP-OFDM 16QAM	1	1	21.54	21.44	21.48
20	CP-OFDM 64QAM	1	1	20.11	20.06	20.06
20	CP-OFDM 256QAM	1	1	16.69	16.58	16.87
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.24	23.22	23.41
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.11	23.09	23.15
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.05	23.02	23.01

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	22.86	23.05	19.79
20		1	53	22.97	23.06	23.02
20		1	104	22.92	22.94	22.94
20		50	1	22.63	22.71	22.66
20		50	25	23.11	23.26	23.22
20		50	50	22.64	22.68	22.70
20		100	0	22.61	22.66	22.67
20	DFT-s-OFDM QPSK	1	1	23.25	23.36	23.28
20		1	53	23.05	23.20	23.17
20		1	104	23.03	23.07	23.02
20		50	1	22.26	22.25	22.26
20		50	25	23.20	23.24	23.23
20		50	50	22.15	22.23	22.22
20		100	0	22.23	22.27	22.27
20	DFT-s-OFDM 16QAM	1	1	22.35	22.40	22.35
20	DFT-s-OFDM 64QAM	1	1	20.76	20.81	20.79
20	DFT-s-OFDM 256QAM	1	1	18.51	18.54	18.63
20	CP-OFDM QPSK	1	1	21.66	21.75	21.81
20	CP-OFDM 16QAM	1	1	21.16	21.17	21.37
20	CP-OFDM 64QAM	1	1	19.70	19.74	19.84
20	CP-OFDM 256QAM	1	1	16.52	16.67	16.75
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.06	23.10	23.13
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	23.17	23.16	22.98
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	23.19	23.21	22.91

n7						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	23.39	23.36	23.61
20		1	53	23.33	23.49	23.66
20		1	104	23.37	23.50	23.56
20		50	1	23.28	23.40	23.51
20		50	25	23.24	23.43	23.63
20		50	50	23.29	23.46	23.52
20		100	0	23.25	23.44	23.52
20	DFT-s-OFDM QPSK	1	1	23.42	23.53	23.68
20		1	53	23.31	23.47	23.59
20		1	104	23.40	23.52	23.66
20		50	1	23.41	23.50	23.65
20		50	25	23.23	23.37	23.59
20		50	50	23.30	23.39	23.58
20		100	0	23.30	23.41	23.61
20	DFT-s-OFDM 16QAM	1	1	22.99	23.03	23.27
20	DFT-s-OFDM 64QAM	1	1	21.42	21.43	21.74
20	DFT-s-OFDM 256QAM	1	1	19.05	19.06	19.31
20	CP-OFDM QPSK	1	1	22.36	22.44	22.67
20	CP-OFDM 16QAM	1	1	21.82	21.90	22.16
20	CP-OFDM 64QAM	1	1	20.17	20.15	20.43
20	CP-OFDM 256QAM	1	1	17.09	17.18	17.45
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	23.24	23.28	23.52
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	23.13	23.30	23.52
Channel				500500	507000	513500
Frequency (MHz)				2502.5	2535	2567.5
5	DFT-s-OFDM QPSK	1	1	23.22	23.25	23.49

n12						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	DFT-s-OFDM PI/2 BPSK	1	1	22.86	22.87	23.04
15		1	39	22.81	23.02	22.99
15		1	77	22.89	22.95	22.91
15		36	1	22.61	22.63	22.58
15		36	18	23.04	23.04	23.05
15		36	37	22.63	22.66	22.64
15		75	0	22.55	22.58	22.61
15	DFT-s-OFDM QPSK	1	1	23.04	23.20	23.05
15		1	39	23.07	23.00	23.03
15		1	77	23.09	23.02	23.12
15		36	1	22.04	22.26	22.21
15		36	18	23.13	23.15	23.14
15		36	37	22.09	22.16	22.14
15		75	0	22.11	22.19	22.18
15	DFT-s-OFDM 16QAM	1	1	22.12	22.15	22.19
15	DFT-s-OFDM 64QAM	1	1	20.66	20.64	20.70
15	DFT-s-OFDM 256QAM	1	1	18.55	18.80	18.80
15	CP-OFDM QPSK	1	1	21.65	21.65	21.64
15	CP-OFDM 16QAM	1	1	21.12	21.15	21.16
15	CP-OFDM 64QAM	1	1	19.89	19.76	19.76
15	CP-OFDM 256QAM	1	1	16.60	16.50	16.56
Channel				140800	141500	142200
Frequency (MHz)				704	707.5	711
10	DFT-s-OFDM QPSK	1	1	22.93	22.95	22.96
Channel				140300	141500	142700
Frequency (MHz)				701.5	707.5	713.5
5	DFT-s-OFDM QPSK	1	1	22.96	22.94	22.84



n14						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					158600	
Frequency (MHz)					793	
10	DFT-s-OFDM PI/2 BPSK	1	1		23.05	
10		1	26		22.98	
10		1	50		22.92	
10		25	1		22.72	
10		25	12		23.17	
10		25	25		22.65	
10		50	0		22.67	
10		1	1		23.40	
10	DFT-s-OFDM QPSK	1	26		23.34	
10		1	50		23.03	
10		25	1		22.17	
10		25	12		23.26	
10		25	25		22.24	
10		50	0		22.24	
10	DFT-s-OFDM 16QAM	1	1		22.36	
10	DFT-s-OFDM 64QAM	1	1		20.86	
10	DFT-s-OFDM 256QAM	1	1		18.51	
10	CP-OFDM QPSK	1	1		21.84	
10	CP-OFDM 16QAM	1	1		21.29	
10	CP-OFDM 64QAM	1	1		19.92	
10	CP-OFDM 256QAM	1	1		16.47	
Channel				158100	158600	159100
Frequency (MHz)				790.5	793	795.5
5	DFT-s-OFDM QPSK	1	1	23.18	23.25	23.36

n25						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376500	381000
Frequency (MHz)				1860	1882.5	1905
20	DFT-s-OFDM PI/2 BPSK	1	1	22.97	23.21	23.19
20		1	53	23.11	23.27	23.16
20		1	104	23.11	23.26	23.16
20		50	1	22.80	22.88	22.87
20		50	25	23.28	23.43	23.38
20		50	50	22.81	22.93	22.87
20		100	0	22.84	22.95	22.89
20	DFT-s-OFDM QPSK	1	1	23.58	23.66	23.54
20		1	53	23.29	23.39	23.26
20		1	104	23.42	23.40	23.23
20		50	1	22.24	22.51	22.39
20		50	25	23.38	23.57	23.39
20		50	50	22.34	22.54	22.37
20		100	0	22.34	22.46	22.42
20	DFT-s-OFDM 16QAM	1	1	22.39	22.53	22.57
20	DFT-s-OFDM 64QAM	1	1	20.89	20.95	21.01
20	DFT-s-OFDM 256QAM	1	1	18.53	18.54	18.57
20	CP-OFDM QPSK	1	1	21.89	21.90	21.89
20	CP-OFDM 16QAM	1	1	21.39	21.44	21.44
20	CP-OFDM 64QAM	1	1	19.98	19.99	20.03
20	CP-OFDM 256QAM	1	1	16.62	16.51	16.55
Channel				371500	376500	381500
Frequency (MHz)				1857.5	1882.5	1907.5
15	DFT-s-OFDM QPSK	1	1	23.05	23.15	23.36
Channel				371000	376500	382000
Frequency (MHz)				1855	1882.5	1910
10	DFT-s-OFDM QPSK	1	1	23.15	23.12	23.01
Channel				370500	376500	382500
Frequency (MHz)				1852.5	1882.5	1912.5
5	DFT-s-OFDM QPSK	1	1	23.05	23.08	23.05



n26(814-824MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					163800	
Frequency (MHz)					819	
10	DFT-s-OFDM PI/2 BPSK	1	1		23.01	
10		1	26		23.03	
10		1	50		23.02	
10		25	1		22.69	
10		25	12		23.18	
10		25	25		22.71	
10		50	0		22.63	
10	DFT-s-OFDM QPSK	1	1		23.32	
10		1	26		23.18	
10		1	50		23.26	
10		25	1		22.22	
10		25	12		23.22	
10		25	25		22.17	
10		50	0		22.26	
10	DFT-s-OFDM 16QAM	1	1		22.45	
10	DFT-s-OFDM 64QAM	1	1		20.96	
10	DFT-s-OFDM 256QAM	1	1		18.61	
10	CP-OFDM QPSK	1	1		21.90	
10	CP-OFDM 16QAM	1	1		21.33	
10	CP-OFDM 64QAM	1	1		19.93	
10	CP-OFDM 256QAM	1	1		16.63	
Channel				163300	163800	164300
Frequency (MHz)				816.5	819	821.5
5	DFT-s-OFDM QPSK	1	1	23.18	23.16	23.23



n26(824-849MHz)						
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	22.91	22.98	23.11
20		1	53	22.83	23.00	23.05
20		1	104	22.92	22.92	22.97
20		50	1	22.59	22.65	22.73
20		50	25	23.08	23.08	23.31
20		50	50	22.53	22.53	22.82
20		100	0	22.67	22.60	22.76
20	DFT-s-OFDM QPSK	1	1	23.37	23.41	23.31
20		1	53	23.07	23.22	23.17
20		1	104	23.04	23.04	23.10
20		50	1	22.08	22.13	22.33
20		50	25	23.06	23.32	23.30
20		50	50	22.16	22.17	22.29
20		100	0	22.08	22.12	22.33
20	DFT-s-OFDM 16QAM	1	1	22.19	22.36	22.44
20	DFT-s-OFDM 64QAM	1	1	20.65	20.76	20.86
20	DFT-s-OFDM 256QAM	1	1	18.46	18.47	18.62
20	CP-OFDM QPSK	1	1	21.61	21.41	21.85
20	CP-OFDM 16QAM	1	1	21.13	21.08	21.42
20	CP-OFDM 64QAM	1	1	19.67	19.59	19.90
20	CP-OFDM 256QAM	1	1	16.63	16.92	16.82
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.15	23.12	23.20
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	23.13	23.18	23.14
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	23.27	23.23	23.09

n30						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					462000	
Frequency (MHz)					2310	
10	DFT-s-OFDM PI/2 BPSK	1	1		22.53	
10		1	26		22.63	
10		1	50		22.72	
10		25	1		22.28	
10		25	12		22.83	
10		25	25		22.40	
10		50	0		22.35	
10	DFT-s-OFDM QPSK	1	1		22.98	
10		1	26		22.94	
10		1	50		22.80	
10		25	1		21.89	
10		25	12		22.96	
10		25	25		21.93	
10		50	0		21.90	
10	DFT-s-OFDM 16QAM	1	1		21.79	
10	DFT-s-OFDM 64QAM	1	1		20.34	
10	DFT-s-OFDM 256QAM	1	1		17.97	
10	CP-OFDM QPSK	1	1		21.33	
10	CP-OFDM 16QAM	1	1		20.87	
10	CP-OFDM 64QAM	1	1		19.40	
10	CP-OFDM 256QAM	1	1		15.99	
Channel				461500	462000	462500
Frequency (MHz)				2307.5	2310	2312.5
5	DFT-s-OFDM QPSK	1	1	22.52	22.65	22.80



n41						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM PI/2 BPSK	1	1	22.61	22.61	22.18
20		1	25	22.63	22.57	22.25
20		1	49	22.66	22.48	22.30
20		25	1	22.18	22.17	21.79
20		25	12	22.68	22.57	22.30
20		25	25	22.21	22.04	21.87
20		50	0	22.12	22.02	21.78
20	DFT-s-OFDM QPSK	1	1	22.62	22.71	22.64
20		1	25	22.67	22.52	22.23
20		1	49	22.68	22.47	22.33
20		25	1	21.65	21.57	21.33
20		25	12	22.67	22.68	22.34
20		25	25	21.71	21.56	21.39
20		50	0	21.64	21.50	21.32
20	DFT-s-OFDM 16QAM	1	1	21.57	21.49	21.11
20	DFT-s-OFDM 64QAM	1	1	19.87	19.82	19.42
20	DFT-s-OFDM 256QAM	1	1	17.84	17.80	17.50
20	CP-OFDM QPSK	1	1	21.14	21.06	20.69
20	CP-OFDM 16QAM	1	1	20.68	20.53	20.26
20	CP-OFDM 64QAM	1	1	19.13	18.96	18.63
20	CP-OFDM 256QAM	1	1	15.95	15.91	15.59
Channel				500700	518598	536496
Frequency (MHz)				2503.5	2592.99	2682.48
15	DFT-s-OFDM QPSK	1	1	22.68	22.51	22.15
Channel				500202	518598	537000
Frequency (MHz)				2501.01	2592.99	2685
10	DFT-s-OFDM QPSK	1	1	22.62	22.44	22.06



n48						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				637334	641666	646000
Frequency (MHz)				3560.01	3624.99	3690
20	DFT-s-OFDM PI/2 BPSK	1	1	22.51	22.64	22.34
20		1	25	22.53	22.53	22.33
20		1	49	22.62	22.49	22.30
20		25	1	21.59	22.11	21.88
20		25	12	22.60	22.58	22.36
20		25	25	21.68	22.03	21.89
20		50	0	21.50	22.02	21.83
20	DFT-s-OFDM QPSK	1	1	22.54	22.71	22.24
20		1	25	22.55	22.56	22.37
20		1	49	22.65	22.42	22.36
20		25	1	21.55	21.61	21.34
20		25	12	22.58	22.69	22.39
20		25	25	21.57	21.48	21.36
20		50	0	21.57	21.51	21.33
20	DFT-s-OFDM 16QAM	1	1	21.44	21.64	21.19
20	DFT-s-OFDM 64QAM	1	1	19.77	19.87	19.51
20	DFT-s-OFDM 256QAM	1	1	17.83	17.92	17.54
20	CP-OFDM QPSK	1	1	20.96	21.14	20.73
20	CP-OFDM 16QAM	1	1	20.47	20.60	20.22
20	CP-OFDM 64QAM	1	1	18.96	19.22	18.83
20	CP-OFDM 256QAM	1	1	15.90	15.99	15.62
Channel				637168	641666	646166
Frequency (MHz)				3557.52	3624.99	3692.49
15	DFT-s-OFDM QPSK	1	1	22.53	22.51	22.27
Channel				637000	641666	646332
Frequency (MHz)				3555	3624.99	3694.98
10	DFT-s-OFDM QPSK	1	1	22.36	22.43	22.24

n66						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	22.65	22.60	22.56
20		1	53	22.62	22.59	22.60
20		1	104	22.51	22.65	22.70
20		50	1	22.32	22.25	22.24
20		50	25	22.77	22.74	22.67
20		50	50	22.24	22.20	22.23
20		100	0	22.26	22.19	22.25
20	DFT-s-OFDM QPSK	1	1	22.95	23.03	22.99
20		1	53	22.70	22.61	22.90
20		1	104	22.61	22.59	22.85
20		50	1	21.78	21.77	21.83
20		50	25	22.84	22.85	22.80
20		50	50	21.78	21.76	21.83
20		100	0	21.76	21.77	21.77
20	DFT-s-OFDM 16QAM	1	1	21.85	21.79	21.82
20	DFT-s-OFDM 64QAM	1	1	20.31	20.20	20.23
20	DFT-s-OFDM 256QAM	1	1	17.99	17.92	17.91
20	CP-OFDM QPSK	1	1	21.39	21.28	21.25
20	CP-OFDM 16QAM	1	1	20.88	20.80	20.72
20	CP-OFDM 64QAM	1	1	19.48	19.36	19.33
20	CP-OFDM 256QAM	1	1	16.07	15.91	15.92
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.82	22.70	22.63
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.87	22.64	22.61
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.79	22.52	22.59

n71						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.54	22.58	22.77
20		1	53	22.58	22.63	22.69
20		1	104	22.66	22.49	22.54
20		50	1	22.23	22.31	22.38
20		50	25	22.79	22.74	22.85
20		50	50	22.32	22.22	22.30
20		100	0	22.31	22.28	22.37
20	DFT-s-OFDM QPSK	1	1	22.92	23.01	22.98
20		1	53	22.76	22.71	22.88
20		1	104	22.69	22.57	22.66
20		50	1	21.78	21.82	21.85
20		50	25	22.75	22.85	22.90
20		50	50	21.85	21.80	21.79
20		100	0	21.80	21.93	21.82
20	DFT-s-OFDM 16QAM	1	1	21.87	21.79	21.99
20	DFT-s-OFDM 64QAM	1	1	20.39	20.37	20.48
20	DFT-s-OFDM 256QAM	1	1	18.16	18.60	18.35
20	CP-OFDM QPSK	1	1	21.19	21.30	21.49
20	CP-OFDM 16QAM	1	1	20.74	20.82	21.00
20	CP-OFDM 64QAM	1	1	19.37	19.41	19.58
20	CP-OFDM 256QAM	1	1	16.05	16.66	16.37
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.74	22.70	22.89
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.77	22.70	22.74
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.76	22.89	22.82



n77(3450-3550MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	22.72	22.97	22.84
20		1	25	22.57	22.97	22.77
20		1	49	22.49	22.96	22.59
20		25	1	21.62	22.53	22.21
20		25	12	22.61	23.03	22.69
20		25	25	21.52	22.53	22.13
20		50	0	21.57	22.49	22.18
20		1	1	23.01	23.15	22.98
20	DFT-s-OFDM QPSK	1	25	22.54	22.99	22.68
20		1	49	22.50	22.96	22.58
20		25	1	21.63	22.01	21.74
20		25	12	22.59	23.04	22.73
20		25	25	21.57	22.03	21.65
20		50	0	21.56	22.03	21.70
20		1	1	21.50	21.92	21.76
20	DFT-s-OFDM 64QAM	1	1	19.89	20.23	20.09
20	DFT-s-OFDM 256QAM	1	1	17.88	18.33	18.11
20	CP-OFDM QPSK	1	1	21.10	21.48	21.24
20	CP-OFDM 16QAM	1	1	20.56	20.97	20.74
20	CP-OFDM 64QAM	1	1	19.02	19.58	19.34
20	CP-OFDM 256QAM	1	1	16.02	16.38	16.14
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	22.65	22.39	22.53
Channel				630334	633334	636332
Frequency (MHz)				3455.01	3500.01	3544.98
10	DFT-s-OFDM QPSK	1	1	22.54	22.47	22.57



n77(3700-3980MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	22.82	18.96	22.98
20		1	25	22.96	22.43	22.97
20		1	49	23.03	22.41	22.97
20		25	1	22.38	22.02	22.56
20		25	12	22.93	22.49	22.98
20		25	25	22.42	21.99	22.53
20		50	0	22.37	22.03	22.49
20	DFT-s-OFDM QPSK	1	1	23.02	23.15	22.95
20		1	25	22.92	22.44	22.87
20		1	49	22.97	22.41	22.87
20		25	1	21.86	21.54	21.96
20		25	12	22.89	23.04	22.94
20		25	25	21.91	21.50	21.97
20		50	0	21.86	21.50	21.94
20	DFT-s-OFDM 16QAM	1	1	21.88	21.32	21.80
20	DFT-s-OFDM 64QAM	1	1	20.16	19.63	20.12
20	DFT-s-OFDM 256QAM	1	1	18.14	17.73	18.23
20	CP-OFDM QPSK	1	1	21.32	20.88	21.38
20	CP-OFDM 16QAM	1	1	20.77	20.38	20.97
20	CP-OFDM 64QAM	1	1	19.29	18.79	19.43
20	CP-OFDM 256QAM	1	1	16.20	15.77	16.27
Channel				647168	656000	664832
Frequency (MHz)				3707.52	3840	3972.48
15	DFT-s-OFDM QPSK	1	1	22.74	22.53	23.04
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	22.59	22.47	22.87



n78(3450-3550MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	22.81	22.95	22.82
20		1	25	22.87	23.00	22.75
20		1	49	22.94	22.94	22.64
20		25	1	22.34	22.52	22.29
20		25	12	22.91	23.01	22.79
20		25	25	22.45	22.49	22.23
20		50	0	22.36	22.46	22.29
20	DFT-s-OFDM QPSK	1	1	22.83	23.12	22.87
20		1	25	22.78	22.99	22.79
20		1	49	22.84	22.96	22.66
20		25	1	21.81	22.01	21.86
20		25	12	22.81	23.02	22.82
20		25	25	21.80	22.00	21.73
20		50	0	21.79	22.00	21.77
20	DFT-s-OFDM 16QAM	1	1	21.72	21.90	21.68
20	DFT-s-OFDM 64QAM	1	1	20.06	20.22	20.07
20	DFT-s-OFDM 256QAM	1	1	18.03	18.32	18.16
20	CP-OFDM QPSK	1	1	21.22	21.41	21.28
20	CP-OFDM 16QAM	1	1	20.64	20.94	20.80
20	CP-OFDM 64QAM	1	1	19.11	19.42	19.21
20	CP-OFDM 256QAM	1	1	16.15	16.36	16.19
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	22.73	22.92	22.79
Channel				630334	633334	636332
Frequency (MHz)				3455.01	3500.01	3544.98
10	DFT-s-OFDM QPSK	1	1	22.68	23.03	22.90



n77(3700-3800MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM PI/2 BPSK	1	1	22.82	22.98	22.85
20		1	25	22.98	22.94	22.76
20		1	49	23.00	22.86	22.63
20		25	1	22.37	22.48	22.32
20		25	12	22.91	22.97	22.77
20		25	25	22.42	22.43	22.22
20		50	0	22.37	22.44	22.26
20	DFT-s-OFDM QPSK	1	1	22.85	23.13	22.85
20		1	25	22.91	22.99	22.77
20		1	49	22.92	22.87	22.66
20		25	1	21.89	21.97	21.83
20		25	12	22.94	22.99	22.77
20		25	25	21.91	21.92	21.71
20		50	0	21.88	21.92	21.73
20	DFT-s-OFDM 16QAM	1	1	21.86	21.86	21.84
20	DFT-s-OFDM 64QAM	1	1	20.10	20.24	20.20
20	DFT-s-OFDM 256QAM	1	1	18.17	18.19	18.05
20	CP-OFDM QPSK	1	1	21.30	21.34	21.32
20	CP-OFDM 16QAM	1	1	20.71	20.87	20.71
20	CP-OFDM 64QAM	1	1	19.24	19.35	19.17
20	CP-OFDM 256QAM	1	1	16.21	16.35	16.18
Channel				647168	650000	652832
Frequency (MHz)				3707.52	3750	3792.48
15	DFT-s-OFDM QPSK	1	1	22.84	23.06	22.80
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	22.86	22.86	22.65


Effective Radiated Power and Effective Isotropic Radiated Power:

n2 (PC3)									
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)				1860.00	1860.00	1880.00	1880.00	1900.00	1900.00
20	DFT-s-OFDM PI/2 BPSK	1	1	24.30	0.269	24.47	0.280	24.28	0.268
20		1	53	24.39	0.275	24.48	0.281	24.29	0.269
20		1	104	24.33	0.271	24.48	0.281	24.29	0.269
20		50	1	24.00	0.251	24.12	0.258	24.00	0.251
20		50	25	24.49	0.281	24.67	0.293	24.52	0.283
20		50	50	24.02	0.252	24.22	0.264	24.02	0.252
20		10 0	0	24.06	0.255	24.15	0.260	24.04	0.254
20	DFT-s-OFDM QPSK	1	1	24.62	0.290	24.84	0.305	24.69	0.294
20		1	53	24.65	0.292	24.61	0.289	24.50	0.282
20		1	104	24.62	0.290	24.56	0.286	24.64	0.291
20		50	1	23.58	0.228	23.86	0.243	23.69	0.234
20		50	25	24.06	0.255	24.31	0.270	24.14	0.259
20		50	50	23.61	0.230	23.71	0.235	23.62	0.230
20		10 0	0	23.60	0.229	23.67	0.233	23.68	0.233
20	DFT-s-OFDM 16QAM	1	1	23.66	0.232	23.67	0.233	23.58	0.228
20	DFT-s-OFDM 64QAM	1	1	22.09	0.162	22.20	0.166	22.07	0.161
20	DFT-s-OFDM 256QAM	1	1	19.74	0.094	20.03	0.101	19.96	0.099
20	CP-OFDM QPSK	1	1	23.15	0.207	23.10	0.204	23.15	0.207
20	CP-OFDM 16QAM	1	1	22.68	0.185	22.58	0.181	22.62	0.183
20	CP-OFDM 64QAM	1	1	21.25	0.133	21.20	0.132	21.20	0.132
20	CP-OFDM 256QAM	1	1	17.83	0.061	17.72	0.059	18.01	0.063
Channel				371500	371500	376000	376000	380500	380500
Frequency (MHz)				1857.50	1857.50	1880.00	1880.00	1902.50	1902.50
15	DFT-s-OFDM QPSK	1	1	24.38	0.274	24.36	0.273	24.55	0.285
Channel				371000	371000	376000	376000	381000	381000
Frequency (MHz)				1855.00	1855.00	1880.00	1880.00	1905.00	1905.00
10	DFT-s-OFDM	1	1	24.25	0.266	24.23	0.265	24.29	0.269



	QPSK								
Channel				370500	370500	376000	376000	381500	381500
Frequency (MHz)				1852.50	1852.50	1880.00	1880.00	1907.50	1907.50
5	DFT-s-OFDM QPSK	1	1	24.19	0.262	24.16	0.261	24.15	0.260

n5 (PC3)									
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)				834.00	834.00	836.50	836.50	839.00	839.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.42	0.175	22.61	0.182	19.35	0.086
20		1	53	22.53	0.179	22.62	0.183	22.58	0.181
20		1	104	22.48	0.177	22.50	0.178	22.50	0.178
20		50	1	22.19	0.166	22.27	0.169	22.22	0.167
20		50	25	22.67	0.185	22.82	0.191	22.78	0.190
20		50	50	22.20	0.166	22.24	0.167	22.26	0.168
20		10 0	0	22.17	0.165	22.22	0.167	22.23	0.167
20	DFT-s-OFDM QPSK	1	1	22.81	0.191	22.92	0.196	22.84	0.192
20		1	53	22.61	0.182	22.76	0.189	22.73	0.187
20		1	104	22.59	0.182	22.63	0.183	22.58	0.181
20		50	1	21.82	0.152	21.81	0.152	21.82	0.152
20		50	25	22.76	0.189	22.80	0.191	22.79	0.190
20		50	50	21.71	0.148	21.79	0.151	21.78	0.151
20		10 0	0	21.79	0.151	21.83	0.152	21.83	0.152
20	DFT-s-OFDM 16QAM	1	1	21.91	0.155	21.96	0.157	21.91	0.155
20	DFT-s-OFDM 64QAM	1	1	20.32	0.108	20.37	0.109	20.35	0.108
20	DFT-s-OFDM 256QAM	1	1	18.07	0.064	18.10	0.065	18.19	0.066
20	CP-OFDM QPSK	1	1	21.22	0.132	21.31	0.135	21.37	0.137
20	CP-OFDM 16QAM	1	1	20.72	0.118	20.73	0.118	20.93	0.124
20	CP-OFDM 64QAM	1	1	19.26	0.084	19.30	0.085	19.40	0.087
20	CP-OFDM 256QAM	1	1	16.08	0.041	16.23	0.042	16.31	0.043
Channel				166300	166300	167300	167300	168300	168300
Frequency (MHz)				831.50	831.50	836.50	836.50	841.50	841.50
15	DFT-s-OFDM	1	1	22.62	0.183	22.66	0.185	22.69	0.186



	QPSK								
	Channel			165800	165800	167300	167300	168800	168800
	Frequency (MHz)			829.00	829.00	836.50	836.50	844.00	844.00
10	DFT-s-OFDM QPSK	1	1	22.73	0.187	22.72	0.187	22.54	0.179
	Channel			165300	165300	167300	167300	169300	169300
	Frequency (MHz)			826.50	826.50	836.50	836.50	846.50	846.50
5	DFT-s-OFDM QPSK	1	1	22.75	0.188	22.77	0.189	22.47	0.177

n7									
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			502000	502000	507000	507000	512000	512000
	Frequency (MHz)			2510.00	2510.00	2535.00	2535.00	2560.00	2560.00
20	DFT-s-OFDM PI/2 BPSK	1	1	23.21	0.209	23.18	0.208	23.43	0.220
20		1	80	23.15	0.207	23.31	0.214	23.48	0.223
20		1	158	23.19	0.208	23.32	0.215	23.38	0.218
20		80	1	23.10	0.204	23.22	0.210	23.33	0.215
20		80	40	23.06	0.202	23.25	0.211	23.45	0.221
20		80	80	23.11	0.205	23.28	0.213	23.34	0.216
20		16 0	0	23.07	0.203	23.26	0.212	23.34	0.216
20	DFT-s-OFDM QPSK	1	1	23.24	0.211	23.35	0.216	23.50	0.224
20		1	80	23.13	0.206	23.29	0.213	23.41	0.219
20		1	158	23.22	0.210	23.34	0.216	23.48	0.223
20		80	1	23.23	0.210	23.32	0.215	23.47	0.222
20		80	40	23.05	0.202	23.19	0.208	23.41	0.219
20		80	80	23.12	0.205	23.21	0.209	23.40	0.219
20		16 0	0	23.12	0.205	23.23	0.210	23.43	0.220
20	DFT-s-OFDM 16QAM	1	1	22.81	0.191	22.85	0.193	23.09	0.204
20	DFT-s-OFDM 64QAM	1	1	21.24	0.133	21.25	0.133	21.56	0.143
20	DFT-s-OFDM 256QAM	1	1	18.87	0.077	18.88	0.077	19.13	0.082
20	CP-OFDM QPSK	1	1	22.18	0.165	22.26	0.168	22.49	0.177
20	CP-OFDM 16QAM	1	1	21.64	0.146	21.72	0.149	21.98	0.158
20	CP-OFDM 64QAM	1	1	19.99	0.100	19.97	0.099	20.25	0.106
20	CP-OFDM	1	1	16.91	0.049	17.00	0.050	17.27	0.053



	256QAM								
	Channel			501500	501500	507000	507000	512500	512500
	Frequency (MHz)			2507.50	2507.50	2535.00	2535.00	2562.50	2562.50
15	DFT-s-OFDM QPSK	1	1	23.06	0.202	23.10	0.204	23.34	0.216
	Channel			501000	501000	507000	507000	513000	513000
	Frequency (MHz)			2505.00	2505.00	2535.00	2535.00	2565.00	2565.00
10	DFT-s-OFDM QPSK	1	1	22.95	0.197	23.12	0.205	23.34	0.216
	Channel			500500	500500	507000	507000	513500	513500
	Frequency (MHz)			2502.50	2502.50	2535.00	2535.00	2567.50	2567.50
5	DFT-s-OFDM QPSK	1	1	23.04	0.201	23.07	0.203	23.31	0.214

n12									
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			141300	141300	141500	141500	141700	141700
	Frequency (MHz)			706.50	706.50	707.50	707.50	708.50	708.50
15	DFT-s-OFDM PI/2 BPSK	1	1	22.59	0.182	22.60	0.182	22.77	0.189
15		1	39	22.54	0.179	22.75	0.188	22.72	0.187
15		1	77	22.62	0.183	22.68	0.185	22.64	0.184
15		36	1	22.34	0.171	22.36	0.172	22.31	0.170
15		36	18	22.77	0.189	22.77	0.189	22.78	0.190
15		36	37	22.36	0.172	22.39	0.173	22.37	0.173
15		75	0	22.28	0.169	22.31	0.170	22.34	0.171
15	DFT-s-OFDM QPSK	1	1	22.77	0.189	22.93	0.196	22.78	0.190
15		1	39	22.80	0.191	22.73	0.187	22.76	0.189
15		1	77	22.82	0.191	22.75	0.188	22.85	0.193
15		36	1	21.77	0.150	21.99	0.158	21.94	0.156
15		36	18	22.86	0.193	22.88	0.194	22.87	0.194
15		36	37	21.82	0.152	21.89	0.155	21.87	0.154
15		75	0	21.84	0.153	21.92	0.156	21.91	0.155
15	DFT-s-OFDM 16QAM	1	1	21.85	0.153	21.88	0.154	21.92	0.156
15	DFT-s-OFDM 64QAM	1	1	20.39	0.109	20.37	0.109	20.43	0.110
15	DFT-s-OFDM 256QAM	1	1	18.28	0.067	18.53	0.071	18.53	0.071
15	CP-OFDM QPSK	1	1	21.38	0.137	21.38	0.137	21.37	0.137
15	CP-OFDM 16QAM	1	1	20.85	0.122	20.88	0.122	20.89	0.123



15	CP-OFDM 64QAM	1	1	19.62	0.092	19.49	0.089	19.49	0.089
15	CP-OFDM 256QAM	1	1	16.33	0.043	16.23	0.042	16.29	0.043
Channel				140800	140800	141500	141500	142200	142200
Frequency (MHz)				704.00	704.00	707.50	707.50	711.00	711.00
10	DFT-s-OFDM QPSK	1	1	22.66	0.185	22.68	0.185	22.69	0.186
Channel				140300	140300	141500	141500	142700	142700
Frequency (MHz)				701.50	701.50	707.50	707.50	713.50	713.50
5	DFT-s-OFDM QPSK	1	1	22.69	0.186	22.67	0.185	22.57	0.181

n14									
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						158600	158600		
Frequency (MHz)						793.00	793.00		
10	DFT-s-OFDM PI/2 BPSK	1	1	/	/	22.55	0.180	/	/
10		1	53	/	/	22.48	0.177	/	/
10		1	104	/	/	22.42	0.175	/	/
10		50	1	/	/	22.22	0.167	/	/
10		50	25	/	/	22.67	0.185	/	/
10		50	50	/	/	22.15	0.164	/	/
10		10 0	0	/	/	22.17	0.165	/	/
10	DFT-s-OFDM QPSK	1	1	/	/	22.90	0.195	/	/
10		1	53	/	/	22.84	0.192	/	/
10		1	104	/	/	22.53	0.179	/	/
10		50	1	/	/	21.67	0.147	/	/
10		50	25	/	/	22.76	0.189	/	/
10		50	50	/	/	21.74	0.149	/	/
10		10 0	0	/	/	21.74	0.149	/	/
10	DFT-s-OFDM 16QAM	1	1	/	/	21.86	0.153	/	/
10	DFT-s-OFDM 64QAM	1	1	/	/	20.36	0.109	/	/
10	DFT-s-OFDM 256QAM	1	1	/	/	18.01	0.063	/	/
10	CP-OFDM QPSK	1	1	/	/	21.34	0.136	/	/
10	CP-OFDM 16QAM	1	1	/	/	20.79	0.120	/	/



10	CP-OFDM 64QAM	1	1	/	/	19.42	0.087	/	/
10	CP-OFDM 256QAM	1	1	/	/	15.97	0.040	/	/
Channel				158100	158100	158600	158600	159100	159100
Frequency (MHz)				790.50	790.50	793.00	793.00	795.50	795.50
5	DFT-s-OFDM QPSK	1	1	22.68	0.185	22.75	0.188	22.86	0.193

n25									
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	376500	376500	381000	381000
Frequency (MHz)				1860.00	1860.00	1882.50	1882.50	1905.00	1905.00
20	DFT-s-OFDM PI/2 BPSK	1	1	24.11	0.258	24.35	0.272	24.33	0.271
20		1	80	24.25	0.266	24.41	0.276	24.30	0.269
20		1	158	24.25	0.266	24.40	0.275	24.30	0.269
20		80	1	23.94	0.248	24.02	0.252	24.01	0.252
20		80	40	24.42	0.277	24.57	0.286	24.52	0.283
20		80	80	23.95	0.248	24.07	0.255	24.01	0.252
20		16 0	0	23.98	0.250	24.09	0.256	24.03	0.253
20	DFT-s-OFDM QPSK	1	1	24.72	0.296	24.80	0.302	24.68	0.294
20		1	80	24.43	0.277	24.53	0.284	24.40	0.275
20		1	158	24.56	0.286	24.54	0.284	24.37	0.274
20		80	1	23.38	0.218	23.65	0.232	23.53	0.225
20		80	40	24.52	0.283	24.71	0.296	24.53	0.284
20		80	80	23.48	0.223	23.68	0.233	23.51	0.224
20		16 0	0	23.48	0.223	23.60	0.229	23.56	0.227
20	DFT-s-OFDM 16QAM	1	1	23.53	0.225	23.67	0.233	23.71	0.235
20	DFT-s-OFDM 64QAM	1	1	22.03	0.160	22.09	0.162	22.15	0.164
20	DFT-s-OFDM 256QAM	1	1	19.67	0.093	19.68	0.093	19.71	0.094
20	CP-OFDM QPSK	1	1	23.03	0.201	23.04	0.201	23.03	0.201
20	CP-OFDM 16QAM	1	1	22.53	0.179	22.58	0.181	22.58	0.181
20	CP-OFDM 64QAM	1	1	21.12	0.129	21.13	0.130	21.17	0.131
20	CP-OFDM 256QAM	1	1	17.76	0.060	17.65	0.058	17.69	0.059



Channel				371500	371500	376500	376500	381500	381500
Frequency (MHz)				1857.50	1857.50	1882.50	1882.50	1907.50	1907.50
15	DFT-s-OFDM QPSK	1	1	24.19	0.262	24.29	0.269	24.50	0.282
Channel				371000	371000	376500	376500	382000	382000
Frequency (MHz)				1855.00	1855.00	1882.50	1882.50	1910.00	1910.00
10	DFT-s-OFDM QPSK	1	1	24.29	0.269	24.26	0.267	24.15	0.260
Channel				370500	370500	376500	376500	382500	382500
Frequency (MHz)				1852.50	1852.50	1882.50	1882.50	1912.50	1912.50
5	DFT-s-OFDM QPSK	1	1	24.19	0.262	24.22	0.264	24.19	0.262

n26(814-824MHz)									
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						163800	163800		
Frequency (MHz)						819.00	819.00		
10	DFT-s-OFDM PI/2 BPSK	1	1	/	/	22.57	0.181	/	/
10		1	53	/	/	22.59	0.182	/	/
10		1	104	/	/	22.58	0.181	/	/
10		50	1	/	/	22.25	0.168	/	/
10		50	25	/	/	22.74	0.188	/	/
10		50	50	/	/	22.27	0.169	/	/
10		100	0	/	/	22.19	0.166	/	/
10	DFT-s-OFDM QPSK	1	1	/	/	22.88	0.194	/	/
10		1	53	/	/	22.74	0.188	/	/
10		1	104	/	/	22.82	0.191	/	/
10		50	1	/	/	21.78	0.151	/	/
10		50	25	/	/	22.78	0.190	/	/
10		50	50	/	/	21.73	0.149	/	/
10		100	0	/	/	21.82	0.152	/	/
10	DFT-s-OFDM 16QAM	1	1	/	/	22.01	0.159	/	/
10	DFT-s-OFDM 64QAM	1	1	/	/	20.52	0.113	/	/
10	DFT-s-OFDM 256QAM	1	1	/	/	18.17	0.066	/	/
10	CP-OFDM QPSK	1	1	/	/	21.46	0.140	/	/
10	CP-OFDM 16QAM	1	1	/	/	20.89	0.123	/	/



10	CP-OFDM 64QAM	1	1	/	/	19.49	0.089	/	/
10	CP-OFDM 256QAM	1	1	/	/	16.19	0.042	/	/
Channel				163300	163300	163800	163800	164300	164300
Frequency (MHz)				816.50	816.50	819.00	819.00	821.50	821.50
5	DFT-s-OFDM QPSK	1	1	22.74	0.188	22.72	0.187	22.79	0.190

n26(824-849MHz)									
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)				834.00	834.00	836.50	836.50	839.00	839.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.47	0.177	22.54	0.179	22.67	0.185
20		1	53	22.39	0.173	22.56	0.180	22.61	0.182
20		1	104	22.48	0.177	22.48	0.177	22.53	0.179
20		50	1	22.15	0.164	22.21	0.166	22.29	0.169
20		50	25	22.64	0.184	22.64	0.184	22.87	0.194
20		50	50	22.09	0.162	22.09	0.162	22.38	0.173
20		10 0	0	22.23	0.167	22.16	0.164	22.32	0.171
20	DFT-s-OFDM QPSK	1	1	22.93	0.196	22.97	0.198	22.87	0.194
20		1	53	22.63	0.183	22.78	0.190	22.73	0.187
20		1	104	22.60	0.182	22.60	0.182	22.66	0.185
20		50	1	21.64	0.146	21.69	0.148	21.89	0.155
20		50	25	22.62	0.183	22.88	0.194	22.86	0.193
20		50	50	21.72	0.149	21.73	0.149	21.85	0.153
20		10 0	0	21.64	0.146	21.68	0.147	21.89	0.155
20	DFT-s-OFDM 16QAM	1	1	21.75	0.150	21.92	0.156	22.00	0.158
20	DFT-s-OFDM 64QAM	1	1	20.21	0.105	20.32	0.108	20.42	0.110
20	DFT-s-OFDM 256QAM	1	1	18.02	0.063	18.03	0.064	18.18	0.066
20	CP-OFDM QPSK	1	1	21.17	0.131	20.97	0.125	21.41	0.138
20	CP-OFDM 16QAM	1	1	20.69	0.117	20.64	0.116	20.98	0.125
20	CP-OFDM 64QAM	1	1	19.23	0.084	19.15	0.082	19.46	0.088
20	CP-OFDM 256QAM	1	1	16.19	0.042	16.48	0.044	16.38	0.043



Channel				166300	166300	167300	167300	168300	168300
Frequency (MHz)				831.50	831.50	836.50	836.50	841.50	841.50
15	DFT-s-OFDM QPSK	1	1	22.71	0.187	22.68	0.185	22.76	0.189
Channel				165800	165800	167300	167300	168800	168800
Frequency (MHz)				829.00	829.00	836.50	836.50	844.00	844.00
10	DFT-s-OFDM QPSK	1	1	22.69	0.186	22.74	0.188	22.70	0.186
Channel				165300	165300	167300	167300	169300	169300
Frequency (MHz)				826.50	826.50	836.50	836.50	846.50	846.50
5	DFT-s-OFDM QPSK	1	1	22.83	0.192	22.79	0.190	22.65	0.184

n30									
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						462000	462000		
Frequency (MHz)						2310.00	2310.00		
10	DFT-s-OFDM PI/2 BPSK	1	1	/	/	20.87	0.122	/	/
10		1	53	/	/	20.97	0.125	/	/
10		1	104	/	/	21.06	0.128	/	/
10		50	1	/	/	20.62	0.115	/	/
10		50	25	/	/	21.17	0.131	/	/
10		50	50	/	/	20.74	0.119	/	/
10		100	0	/	/	20.69	0.117	/	/
10	DFT-s-OFDM QPSK	1	1	/	/	21.32	0.136	/	/
10		1	53	/	/	21.28	0.134	/	/
10		1	104	/	/	21.14	0.130	/	/
10		50	1	/	/	20.23	0.105	/	/
10		50	25	/	/	21.30	0.135	/	/
10		50	50	/	/	20.27	0.106	/	/
10		100	0	/	/	20.24	0.106	/	/
10	DFT-s-OFDM 16QAM	1	1	/	/	20.13	0.103	/	/
10	DFT-s-OFDM 64QAM	1	1	/	/	18.68	0.074	/	/
10	DFT-s-OFDM 256QAM	1	1	/	/	16.31	0.043	/	/
10	CP-OFDM QPSK	1	1	/	/	19.67	0.093	/	/
10	CP-OFDM 16QAM	1	1	/	/	19.21	0.083	/	/



10	CP-OFDM 64QAM	1	1	/	/	17.74	0.059	/	/
10	CP-OFDM 256QAM	1	1	/	/	14.33	0.027	/	/

n41									
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				501204	501204	518598	518598	535998	535998
Frequency (MHz)				2506.02	2506.02	2592.99	2592.99	2679.99	2679.99
20	DFT-s-OFDM PI/2 BPSK	1	1	22.67	0.185	22.67	0.185	22.24	0.167
20		1	25	22.69	0.186	22.63	0.183	22.31	0.170
20		1	49	22.72	0.187	22.54	0.179	22.36	0.172
20		25	1	22.24	0.167	22.23	0.167	21.85	0.153
20		25	12	22.74	0.188	22.63	0.183	22.36	0.172
20		25	25	22.27	0.169	22.10	0.162	21.93	0.156
20		50	0	22.18	0.165	22.08	0.161	21.84	0.153
20	DFT-s-OFDM QPSK	1	1	22.68	0.185	22.77	0.189	22.70	0.186
20		1	25	22.73	0.187	22.58	0.181	22.29	0.169
20		1	49	22.74	0.188	22.53	0.179	22.39	0.173
20		25	1	21.71	0.148	21.63	0.146	21.39	0.138
20		25	12	22.73	0.187	22.74	0.188	22.40	0.174
20		25	25	21.77	0.150	21.62	0.145	21.45	0.140
20		50	0	21.70	0.148	21.56	0.143	21.38	0.137
20	DFT-s-OFDM 16QAM	1	1	21.63	0.146	21.55	0.143	21.17	0.131
20	DFT-s-OFDM 64QAM	1	1	19.93	0.098	19.88	0.097	19.48	0.089
20	DFT-s-OFDM 256QAM	1	1	17.90	0.062	17.86	0.061	17.56	0.057
20	CP-OFDM QPSK	1	1	21.20	0.132	21.12	0.129	20.75	0.119
20	CP-OFDM 16QAM	1	1	20.74	0.119	20.59	0.115	20.32	0.108
20	CP-OFDM 64QAM	1	1	19.19	0.083	19.02	0.080	18.69	0.074
20	CP-OFDM 256QAM	1	1	16.01	0.040	15.97	0.040	15.65	0.037
Channel				500700	500700	518598	518598	536496	536496
Frequency (MHz)				2503.50	2503.50	2592.99	2592.99	2682.48	2682.48
15	DFT-s-OFDM QPSK	1	1	22.74	0.188	22.57	0.181	22.21	0.166
Channel				500202	500202	518598	518598	537000	537000
Frequency (MHz)				2501.01	2501.01	2592.99	2592.99	2685.00	2685.00



10	DFT-s-OFDM QPSK	1	1	22.68	0.185	22.50	0.178	22.12	0.163
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n48 (PC3)									
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				637334	637334	641666	641666	646000	646000
Frequency (MHz)				3560.01	3560.01	3624.99	3624.99	3690.00	3690.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.09	0.162	22.22	0.167	21.92	0.156
20		1	25	22.11	0.163	22.11	0.163	21.91	0.155
20		1	49	22.20	0.166	22.07	0.161	21.88	0.154
20		25	1	21.17	0.131	21.69	0.148	21.46	0.140
20		25	12	22.18	0.165	22.16	0.164	21.94	0.156
20		25	25	21.26	0.134	21.61	0.145	21.47	0.140
20		50	0	21.08	0.128	21.60	0.145	21.41	0.138
20	DFT-s-OFDM QPSK	1	1	22.12	0.163	22.29	0.169	21.82	0.152
20		1	25	22.13	0.163	22.14	0.164	21.95	0.157
20		1	49	22.23	0.167	22.00	0.158	21.94	0.156
20		25	1	21.13	0.130	21.19	0.132	20.92	0.124
20		25	12	22.16	0.164	22.27	0.169	21.97	0.157
20		25	25	21.15	0.130	21.06	0.128	20.94	0.124
20		50	0	21.15	0.130	21.09	0.129	20.91	0.123
20	DFT-s-OFDM 16QAM	1	1	21.02	0.126	21.22	0.132	20.77	0.119
20	DFT-s-OFDM 64QAM	1	1	19.35	0.086	19.45	0.088	19.09	0.081
20	DFT-s-OFDM 256QAM	1	1	17.41	0.055	17.50	0.056	17.12	0.052
20	CP-OFDM QPSK	1	1	20.54	0.113	20.72	0.118	20.31	0.107
20	CP-OFDM 16QAM	1	1	20.05	0.101	20.18	0.104	19.80	0.095
20	CP-OFDM 64QAM	1	1	18.54	0.071	18.80	0.076	18.41	0.069
20	CP-OFDM 256QAM	1	1	15.48	0.035	15.57	0.036	15.20	0.033
Channel				637168	637168	641666	641666	646166	646166
Frequency (MHz)				3557.52	3557.52	3624.99	3624.99	3692.49	3692.49
15	DFT-s-OFDM QPSK	1	1	22.11	0.163	22.09	0.162	21.85	0.153
Channel				637000	637000	641666	641666	646332	646332
Frequency (MHz)				3555.00	3555.00	3624.99	3624.99	3694.98	3694.98
10	DFT-s-OFDM QPSK	1	1	21.94	0.156	22.01	0.159	21.82	0.152

n66 (PC3)									
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				344000	344000	349000	349000	354000	354000
Frequency (MHz)				1720.00	1720.00	1745.00	1745.00	1770.00	1770.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.41	0.174	22.36	0.172	22.32	0.171
20		1	80	22.38	0.173	22.35	0.172	22.36	0.172
20		1	158	22.27	0.169	22.41	0.174	22.46	0.176
20		80	1	22.08	0.161	22.01	0.159	22.00	0.158
20		80	40	22.53	0.179	22.50	0.178	22.43	0.175
20		80	80	22.00	0.158	21.96	0.157	21.99	0.158
20		16 0	0	22.02	0.159	21.95	0.157	22.01	0.159
20	DFT-s-OFDM QPSK	1	1	22.71	0.187	22.79	0.190	22.75	0.188
20		1	80	22.46	0.176	22.37	0.173	22.66	0.185
20		1	158	22.37	0.173	22.35	0.172	22.61	0.182
20		80	1	21.54	0.143	21.53	0.142	21.59	0.144
20		80	40	22.60	0.182	22.61	0.182	22.56	0.180
20		80	80	21.54	0.143	21.52	0.142	21.59	0.144
20		16 0	0	21.52	0.142	21.53	0.142	21.53	0.142
20	DFT-s-OFDM 16QAM	1	1	21.61	0.145	21.55	0.143	21.58	0.144
20	DFT-s-OFDM 64QAM	1	1	20.07	0.102	19.96	0.099	19.99	0.100
20	DFT-s-OFDM 256QAM	1	1	17.75	0.060	17.68	0.059	17.67	0.058
20	CP-OFDM QPSK	1	1	21.15	0.130	21.04	0.127	21.01	0.126
20	CP-OFDM 16QAM	1	1	20.64	0.116	20.56	0.114	20.48	0.112
20	CP-OFDM 64QAM	1	1	19.24	0.084	19.12	0.082	19.09	0.081
20	CP-OFDM 256QAM	1	1	15.83	0.038	15.67	0.037	15.68	0.037
Channel				343500	343500	349000	349000	354500	354500
Frequency (MHz)				1717.50	1717.50	1745.00	1745.00	1772.50	1772.50
15	DFT-s-OFDM QPSK	1	1	22.58	0.181	22.46	0.176	22.39	0.173
Channel				343000	343000	349000	349000	355000	355000
Frequency (MHz)				1715.00	1715.00	1745.00	1745.00	1775.00	1775.00
10	DFT-s-OFDM QPSK	1	1	22.63	0.183	22.40	0.174	22.37	0.173



Channel				342500	342500	349000	349000	355500	355500
Frequency (MHz)				1712.50	1712.50	1745.00	1745.00	1777.50	1777.50
5	DFT-s-OFDM QPSK	1	1	22.55	0.180	22.28	0.169	22.35	0.172

n71									
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				134600	134600	136100	136100	137600	137600
Frequency (MHz)				673.00	673.00	680.50	680.50	688.00	688.00
20	DFT-s-OFDM PI/2 BPSK	1	1	19.13	0.082	19.17	0.083	19.36	0.086
20		1	53	19.17	0.083	19.22	0.084	19.28	0.085
20		1	104	19.25	0.084	19.08	0.081	19.13	0.082
20		50	1	18.82	0.076	18.90	0.078	18.97	0.079
20		50	25	19.38	0.087	19.33	0.086	19.44	0.088
20		50	50	18.91	0.078	18.81	0.076	18.89	0.077
20		100	0	18.90	0.078	18.87	0.077	18.96	0.079
20	DFT-s-OFDM QPSK	1	1	19.51	0.089	19.60	0.091	19.57	0.091
20		1	53	19.35	0.086	19.30	0.085	19.47	0.089
20		1	104	19.28	0.085	19.16	0.082	19.25	0.084
20		50	1	18.37	0.069	18.41	0.069	18.44	0.070
20		50	25	19.34	0.086	19.44	0.088	19.49	0.089
20		50	50	18.44	0.070	18.39	0.069	18.38	0.069
20		100	0	18.39	0.069	18.52	0.071	18.41	0.069
20	DFT-s-OFDM 16QAM	1	1	18.46	0.070	18.38	0.069	18.58	0.072
20	DFT-s-OFDM 64QAM	1	1	16.98	0.050	16.96	0.050	17.07	0.051
20	DFT-s-OFDM 256QAM	1	1	14.75	0.030	15.19	0.033	14.94	0.031
20	CP-OFDM QPSK	1	1	17.78	0.060	17.89	0.062	18.08	0.064
20	CP-OFDM 16QAM	1	1	17.33	0.054	17.41	0.055	17.59	0.057
20	CP-OFDM 64QAM	1	1	15.96	0.039	16.00	0.040	16.17	0.041
20	CP-OFDM 256QAM	1	1	12.64	0.018	13.25	0.021	12.96	0.020
Channel				134100	134100	136100	136100	138100	138100
Frequency (MHz)				670.50	670.50	680.50	680.50	690.50	690.50
15	DFT-s-OFDM QPSK	1	1	19.33	0.086	19.29	0.085	19.48	0.089



Channel				133600	133600	136100	136100	138600	138600
Frequency (MHz)				668.00	668.00	680.50	680.50	693.00	693.00
10	DFT-s-OFDM QPSK	1	1	19.36	0.086	19.29	0.085	19.33	0.086
Channel				133100	133100	136100	136100	139100	139100
Frequency (MHz)				665.50	665.50	680.50	680.50	695.50	695.50
5	DFT-s-OFDM QPSK	1	1	19.35	0.086	19.48	0.089	19.41	0.087

n77(3450-3550MHz)									
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				630668	630668	633334	633334	636000	636000
Frequency (MHz)				3460.02	3460.02	3500.01	3500.01	3540.00	3540.00
20	DFT-s-OFDM PI/2 BPSK	1	1	23.73	0.236	23.98	0.250	23.85	0.243
20		1	25	23.58	0.228	23.98	0.250	23.78	0.239
20		1	49	23.50	0.224	23.97	0.249	23.60	0.229
20		25	1	22.63	0.183	23.54	0.226	23.22	0.210
20		25	12	23.62	0.230	24.04	0.254	23.70	0.234
20		25	25	22.53	0.179	23.54	0.226	23.14	0.206
20		50	0	22.58	0.181	23.50	0.224	23.19	0.208
20	DFT-s-OFDM QPSK	1	1	24.02	0.252	24.16	0.261	23.99	0.251
20		1	25	23.55	0.226	24.00	0.251	23.69	0.234
20		1	49	23.51	0.224	23.97	0.249	23.59	0.229
20		25	1	22.64	0.184	23.02	0.200	22.75	0.188
20		25	12	23.60	0.229	24.05	0.254	23.74	0.237
20		25	25	22.58	0.181	23.04	0.201	22.66	0.185
20		50	0	22.57	0.181	23.04	0.201	22.71	0.187
20	DFT-s-OFDM 16QAM	1	1	22.51	0.178	22.93	0.196	22.77	0.189
20	DFT-s-OFDM 64QAM	1	1	20.90	0.123	21.24	0.133	21.10	0.129
20	DFT-s-OFDM 256QAM	1	1	18.89	0.077	19.34	0.086	19.12	0.082
20	CP-OFDM QPSK	1	1	22.11	0.163	22.49	0.177	22.25	0.168
20	CP-OFDM 16QAM	1	1	21.57	0.144	21.98	0.158	21.75	0.150
20	CP-OFDM 64QAM	1	1	20.03	0.101	20.59	0.115	20.35	0.108
20	CP-OFDM 256QAM	1	1	17.03	0.050	17.39	0.055	17.15	0.052
Channel				630500	630500	633334	633334	636166	636166



Frequency (MHz)				3457.50	3457.50	3500.01	3500.01	3542.49	3542.49
15	DFT-s-OFDM QPSK	1	1	23.66	0.232	23.40	0.219	23.54	0.226
Channel				630334	630334	633334	633334	636332	636332
Frequency (MHz)				3455.01	3455.01	3500.01	3500.01	3544.98	3544.98
10	DFT-s-OFDM QPSK	1	1	23.55	0.226	23.48	0.223	23.58	0.228

n77(3700-3980MHz)									
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				647334	647334	656000	656000	664666	664666
Frequency (MHz)				3710.01	3710.01	3840.00	3840.00	3969.99	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	23.83	0.242	19.97	0.099	23.99	0.251
20		1	25	23.97	0.249	23.44	0.221	23.98	0.250
20		1	49	24.04	0.254	23.42	0.220	23.98	0.250
20		25	1	23.39	0.218	23.03	0.201	23.57	0.228
20		25	12	23.94	0.248	23.50	0.224	23.99	0.251
20		25	25	23.43	0.220	23.00	0.200	23.54	0.226
20		50	0	23.38	0.218	23.04	0.201	23.50	0.224
20		1	1	24.03	0.253	24.16	0.261	23.96	0.249
20	DFT-s-OFDM QPSK	1	25	23.93	0.247	23.45	0.221	23.88	0.244
20		1	49	23.98	0.250	23.42	0.220	23.88	0.244
20		25	1	22.87	0.194	22.55	0.180	22.97	0.198
20		25	12	23.90	0.245	24.05	0.254	23.95	0.248
20		25	25	22.92	0.196	22.51	0.178	22.98	0.199
20		50	0	22.87	0.194	22.51	0.178	22.95	0.197
20	DFT-s-OFDM 16QAM	1	1	22.89	0.195	22.33	0.171	22.81	0.191
20	DFT-s-OFDM 64QAM	1	1	21.17	0.131	20.64	0.116	21.13	0.130
20	DFT-s-OFDM 256QAM	1	1	19.15	0.082	18.74	0.075	19.24	0.084
20	CP-OFDM QPSK	1	1	22.33	0.171	21.89	0.155	22.39	0.173
20	CP-OFDM 16QAM	1	1	21.78	0.151	21.39	0.138	21.98	0.158
20	CP-OFDM 64QAM	1	1	20.30	0.107	19.80	0.095	20.44	0.111
20	CP-OFDM 256QAM	1	1	17.21	0.053	16.78	0.048	17.28	0.053
Channel				647168	647168	656000	656000	664832	664832
Frequency (MHz)				3707.52	3707.52	3840.00	3840.00	3972.48	3972.48



15	DFT-s-OFDM QPSK	1	1	23.75	0.237	23.54	0.226	24.05	0.254
Channel				647000	647000	656000	656000	665000	665000
Frequency (MHz)				3705.00	3705.00	3840.00	3840.00	3975.00	3975.00
10	DFT-s-OFDM QPSK	1	1	23.60	0.229	23.48	0.223	23.88	0.244

n78(3450-3550MHz)									
BW [M Hz]	Modulation	R B Size	RB Off set	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				630668	630668	633334	633334	636000	636000
Frequency (MHz)				3460.02	3460.02	3500.01	3500.01	3540.00	3540.00
20	DFT-s-OFDM PI/2 BPSK	1	1	23.82	0.241	23.96	0.249	23.83	0.242
20		1	25	23.88	0.244	24.01	0.252	23.76	0.238
20		1	49	23.95	0.248	23.95	0.248	23.65	0.232
20		25	1	23.35	0.216	23.53	0.225	23.30	0.214
20		25	12	23.92	0.247	24.02	0.252	23.80	0.240
20		25	25	23.46	0.222	23.50	0.224	23.24	0.211
20		50	0	23.37	0.217	23.47	0.222	23.30	0.214
20	DFT-s-OFDM QPSK	1	1	23.84	0.242	24.13	0.259	23.88	0.244
20		1	25	23.79	0.239	24.00	0.251	23.80	0.240
20		1	49	23.85	0.243	23.97	0.249	23.67	0.233
20		25	1	22.82	0.191	23.02	0.200	22.87	0.194
20		25	12	23.82	0.241	24.03	0.253	23.83	0.242
20		25	25	22.81	0.191	23.01	0.200	22.74	0.188
20		50	0	22.80	0.191	23.01	0.200	22.78	0.190
20	DFT-s-OFDM 16QAM	1	1	22.73	0.187	22.91	0.195	22.69	0.186
20	DFT-s-OFDM 64QAM	1	1	21.07	0.128	21.23	0.133	21.08	0.128
20	DFT-s-OFDM 256QAM	1	1	19.04	0.080	19.33	0.086	19.17	0.083
20	CP-OFDM QPSK	1	1	22.23	0.167	22.42	0.175	22.29	0.169
20	CP-OFDM 16QAM	1	1	21.65	0.146	21.95	0.157	21.81	0.152
20	CP-OFDM 64QAM	1	1	20.12	0.103	20.43	0.110	20.22	0.105
20	CP-OFDM 256QAM	1	1	17.16	0.052	17.37	0.055	17.20	0.052
Channel				630500	630500	633334	633334	636166	636166
Frequency (MHz)				3457.50	3457.50	3500.01	3500.01	3542.49	3542.49
15	DFT-s-OFDM QPSK	1	1	23.74	0.237	23.93	0.247	23.80	0.240



Channel				630334	630334	633334	633334	636332	636332
Frequency (MHz)				3455.01	3455.01	3500.01	3500.01	3544.98	3544.98
10	DFT-s-OFDM QPSK	1	1	23.69	0.234	24.04	0.254	23.91	0.246

n78(3700-3800MHz)									
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				647334	647334	650000	650000	652666	652666
Frequency (MHz)				3710.01	3710.01	3750.00	3750.00	3789.99	3789.99
20	DFT-s-OFDM PI/2 BPSK	1	1	23.83	0.242	23.99	0.251	23.86	0.243
20		1	25	23.99	0.251	23.95	0.248	23.77	0.238
20		1	49	24.01	0.252	23.87	0.244	23.64	0.231
20		25	1	23.38	0.218	23.49	0.223	23.33	0.215
20		25	12	23.92	0.247	23.98	0.250	23.78	0.239
20		25	25	23.43	0.220	23.44	0.221	23.23	0.210
20		50	0	23.38	0.218	23.45	0.221	23.27	0.212
20	DFT-s-OFDM QPSK	1	1	23.86	0.243	24.14	0.259	23.86	0.243
20		1	25	23.92	0.247	24.00	0.251	23.78	0.239
20		1	49	23.93	0.247	23.88	0.244	23.67	0.233
20		25	1	22.90	0.195	22.98	0.199	22.84	0.192
20		25	12	23.95	0.248	24.00	0.251	23.78	0.239
20		25	25	22.92	0.196	22.93	0.196	22.72	0.187
20		50	0	22.89	0.195	22.93	0.196	22.74	0.188
20	DFT-s-OFDM 16QAM	1	1	22.87	0.194	22.87	0.194	22.85	0.193
20	DFT-s-OFDM 64QAM	1	1	21.11	0.129	21.25	0.133	21.21	0.132
20	DFT-s-OFDM 256QAM	1	1	19.18	0.083	19.20	0.083	19.06	0.081
20	CP-OFDM QPSK	1	1	22.31	0.170	22.35	0.172	22.33	0.171
20	CP-OFDM 16QAM	1	1	21.72	0.149	21.88	0.154	21.72	0.149
20	CP-OFDM 64QAM	1	1	20.25	0.106	20.36	0.109	20.18	0.104
20	CP-OFDM 256QAM	1	1	17.22	0.053	17.36	0.054	17.19	0.052
Channel				647168	647168	650000	650000	652832	652832
Frequency (MHz)				3707.52	3707.52	3750.00	3750.00	3792.48	3792.48
15	DFT-s-OFDM QPSK	1	1	23.85	0.243	24.07	0.255	23.81	0.240
Channel				647000	647000	650000	650000	653000	653000



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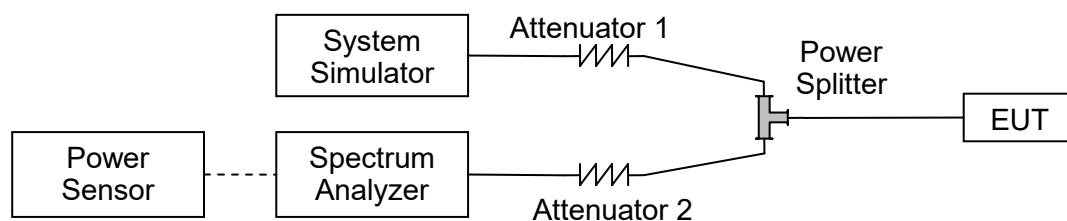
Frequency (MHz)				3705.00	3705.00	3750.00	3750.00	3795.00	3795.00
10	DFT-s-OFDM QPSK	1	1	23.87	0.244	23.87	0.244	23.66	0.232

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	4.4802	5.037	PASS
n2	15	5	370500	DFT-s-OFDM QPSK	25/0	4.4786	5.072	PASS
n2	15	5	370500	DFT-s-OFDM 16QAM	25/0	4.4942	5.043	PASS



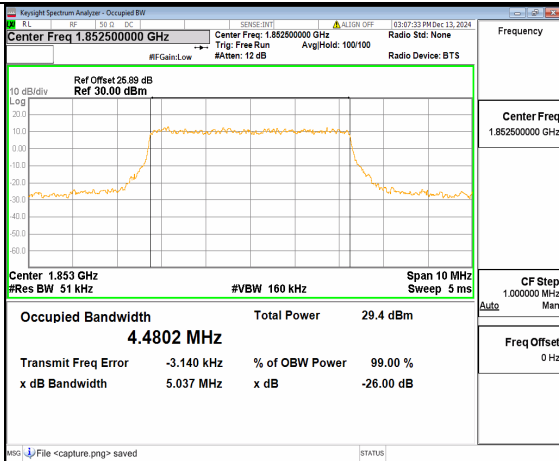
n2	15	5	370500	DFT-s-OFDM 64QAM	25/0	4.4779	4.986	PASS
n2	15	5	370500	DFT-s-OFDM 256QAM	25/0	4.4842	5.107	PASS
n2	15	5	370500	CP-OFDM QPSK	25/0	4.4807	5.179	PASS
n2	15	5	376000	DFT-s-OFDM PI/2 BPSK	25/0	4.4782	5.006	PASS
n2	15	5	376000	DFT-s-OFDM QPSK	25/0	4.4830	4.945	PASS
n2	15	5	376000	DFT-s-OFDM 16QAM	25/0	4.4972	5.054	PASS
n2	15	5	376000	DFT-s-OFDM 64QAM	25/0	4.4722	4.998	PASS
n2	15	5	376000	DFT-s-OFDM 256QAM	25/0	4.4887	5.061	PASS
n2	15	5	376000	CP-OFDM QPSK	25/0	4.4753	5.184	PASS
n2	15	5	381500	DFT-s-OFDM PI/2 BPSK	25/0	4.4808	5.016	PASS
n2	15	5	381500	DFT-s-OFDM QPSK	25/0	4.4773	4.992	PASS
n2	15	5	381500	DFT-s-OFDM 16QAM	25/0	4.4779	4.980	PASS
n2	15	5	381500	DFT-s-OFDM 64QAM	25/0	4.4771	4.975	PASS
n2	15	5	381500	DFT-s-OFDM 256QAM	25/0	4.5048	5.172	PASS
n2	15	5	381500	CP-OFDM QPSK	25/0	4.4855	5.111	PASS
n2	15	10	371000	DFT-s-OFDM PI/2 BPSK	50/0	8.9487	9.519	PASS
n2	15	10	371000	DFT-s-OFDM QPSK	50/0	8.9308	9.548	PASS
n2	15	10	371000	DFT-s-OFDM 16QAM	50/0	8.9677	9.776	PASS
n2	15	10	371000	DFT-s-OFDM 64QAM	50/0	8.9107	9.580	PASS
n2	15	10	371000	DFT-s-OFDM 256QAM	50/0	8.9287	9.704	PASS
n2	15	10	371000	CP-OFDM QPSK	52/0	9.2998	10.074	PASS
n2	15	10	376000	DFT-s-OFDM PI/2 BPSK	50/0	8.9452	9.594	PASS
n2	15	10	376000	DFT-s-OFDM QPSK	50/0	8.9574	9.551	PASS
n2	15	10	376000	DFT-s-OFDM 16QAM	50/0	8.9635	9.671	PASS



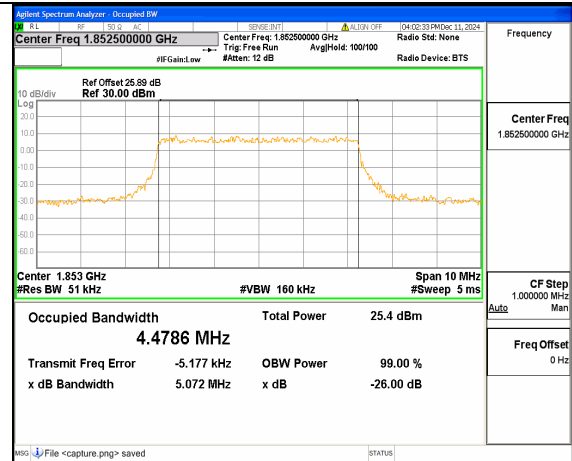
n2	15	10	376000	DFT-s-OFDM 64QAM	50/0	8.9366	9.690	PASS
n2	15	10	376000	DFT-s-OFDM 256QAM	50/0	8.9286	9.693	PASS
n2	15	10	376000	CP-OFDM QPSK	52/0	9.2972	10.135	PASS
n2	15	10	381000	DFT-s-OFDM PI/2 BPSK	50/0	8.9326	9.588	PASS
n2	15	10	381000	DFT-s-OFDM QPSK	50/0	8.9496	9.669	PASS
n2	15	10	381000	DFT-s-OFDM 16QAM	50/0	8.9548	9.725	PASS
n2	15	10	381000	DFT-s-OFDM 64QAM	50/0	8.9504	9.693	PASS
n2	15	10	381000	DFT-s-OFDM 256QAM	50/0	8.9185	9.630	PASS
n2	15	10	381000	CP-OFDM QPSK	52/0	9.3025	10.121	PASS
n2	15	15	371500	DFT-s-OFDM PI/2 BPSK	75/0	13.445	14.364	PASS
n2	15	15	371500	DFT-s-OFDM QPSK	75/0	13.430	14.321	PASS
n2	15	15	371500	DFT-s-OFDM 16QAM	75/0	13.439	14.226	PASS
n2	15	15	371500	DFT-s-OFDM 64QAM	75/0	13.463	14.325	PASS
n2	15	15	371500	DFT-s-OFDM 256QAM	75/0	13.421	14.159	PASS
n2	15	15	371500	CP-OFDM QPSK	79/0	14.101	14.865	PASS
n2	15	15	376000	DFT-s-OFDM PI/2 BPSK	75/0	13.420	14.349	PASS
n2	15	15	376000	DFT-s-OFDM QPSK	75/0	13.431	14.266	PASS
n2	15	15	376000	DFT-s-OFDM 16QAM	75/0	13.450	14.269	PASS
n2	15	15	376000	DFT-s-OFDM 64QAM	75/0	13.447	14.432	PASS
n2	15	15	376000	DFT-s-OFDM 256QAM	75/0	13.453	14.266	PASS
n2	15	15	376000	CP-OFDM QPSK	79/0	14.122	14.955	PASS
n2	15	15	380500	DFT-s-OFDM PI/2 BPSK	75/0	13.368	14.210	PASS
n2	15	15	380500	DFT-s-OFDM QPSK	75/0	13.417	14.323	PASS
n2	15	15	380500	DFT-s-OFDM 16QAM	75/0	13.432	14.255	PASS



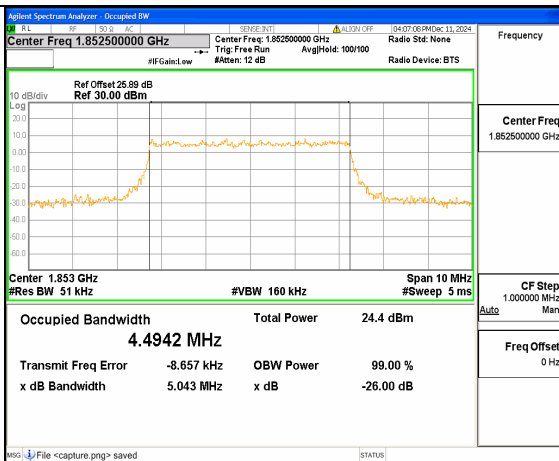
n2	15	15	380500	DFT-s-OFDM 64QAM	75/0	13.433	14.300	PASS
n2	15	15	380500	DFT-s-OFDM 256QAM	75/0	13.411	14.232	PASS
n2	15	15	380500	CP-OFDM QPSK	79/0	14.109	14.969	PASS
n2	15	20	372000	DFT-s-OFDM PI/2 BPSK	100/0	17.864	18.846	PASS
n2	15	20	372000	DFT-s-OFDM QPSK	100/0	17.876	18.759	PASS
n2	15	20	372000	DFT-s-OFDM 16QAM	100/0	17.840	18.857	PASS
n2	15	20	372000	DFT-s-OFDM 64QAM	100/0	17.881	18.817	PASS
n2	15	20	372000	DFT-s-OFDM 256QAM	100/0	17.844	18.862	PASS
n2	15	20	372000	CP-OFDM QPSK	106/0	18.912	19.858	PASS
n2	15	20	376000	DFT-s-OFDM PI/2 BPSK	100/0	17.887	18.942	PASS
n2	15	20	376000	DFT-s-OFDM QPSK	100/0	17.914	18.976	PASS
n2	15	20	376000	DFT-s-OFDM 16QAM	100/0	17.893	18.925	PASS
n2	15	20	376000	DFT-s-OFDM 64QAM	100/0	17.884	19.046	PASS
n2	15	20	376000	DFT-s-OFDM 256QAM	100/0	17.897	18.941	PASS
n2	15	20	376000	CP-OFDM QPSK	106/0	18.956	19.979	PASS
n2	15	20	380000	DFT-s-OFDM PI/2 BPSK	100/0	17.811	18.830	PASS
n2	15	20	380000	DFT-s-OFDM QPSK	100/0	17.873	18.847	PASS
n2	15	20	380000	DFT-s-OFDM 16QAM	100/0	17.829	18.882	PASS
n2	15	20	380000	DFT-s-OFDM 64QAM	100/0	17.852	18.739	PASS
n2	15	20	380000	DFT-s-OFDM 256QAM	100/0	17.826	18.824	PASS
n2	15	20	380000	CP-OFDM QPSK	106/0	18.904	20.021	PASS



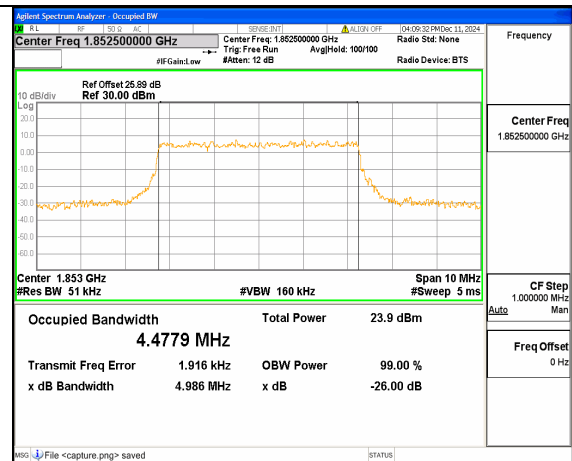
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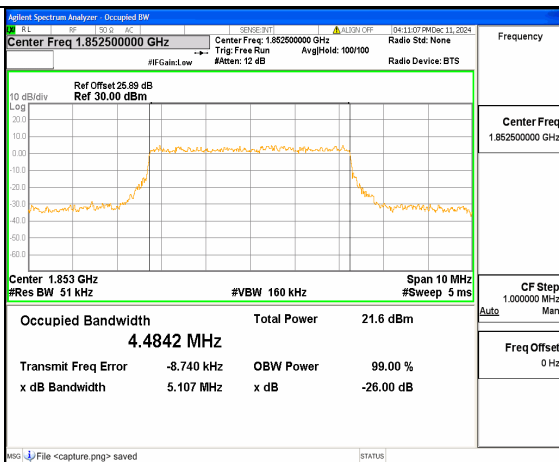
n2 5M DFT-s-OFDM QPSK Outer_Full Low



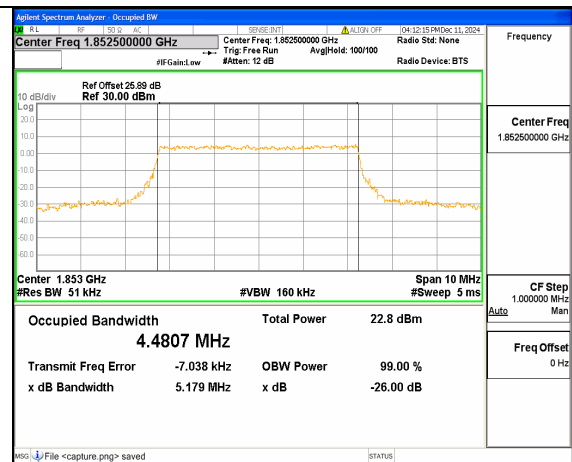
n2 5M DFT-s-OFDM 16QAM Outer_Full Low



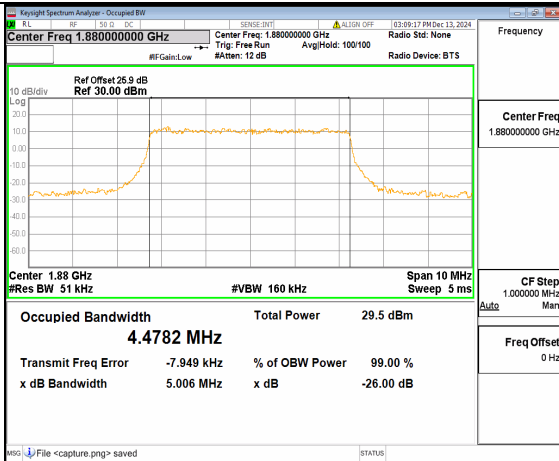
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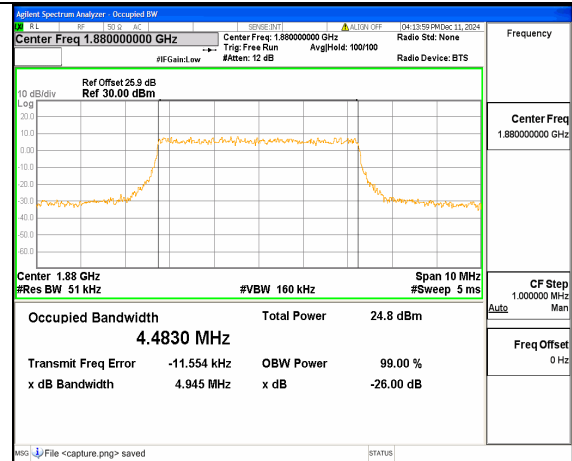
n2 5M DFT-s-OFDM 256QAM Outer_Full Low



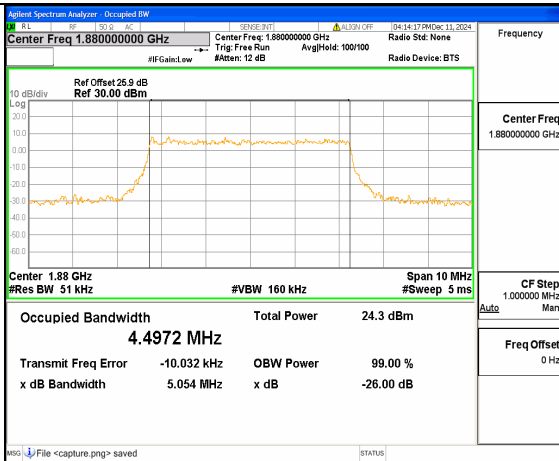
n2 5M CP-OFDM QPSK Outer_Full Low



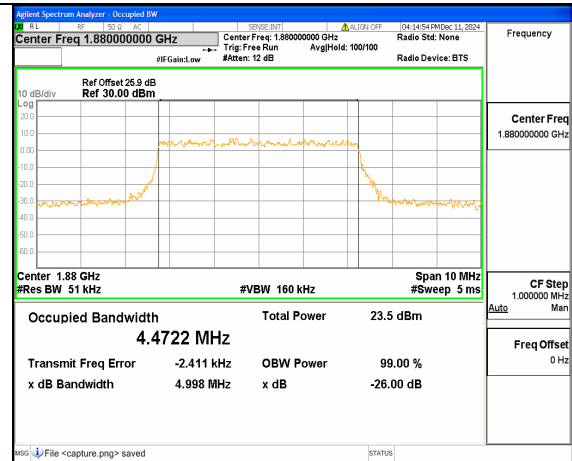
n2 5M DFT-s-OFDM BPSK Outer_Full Mid



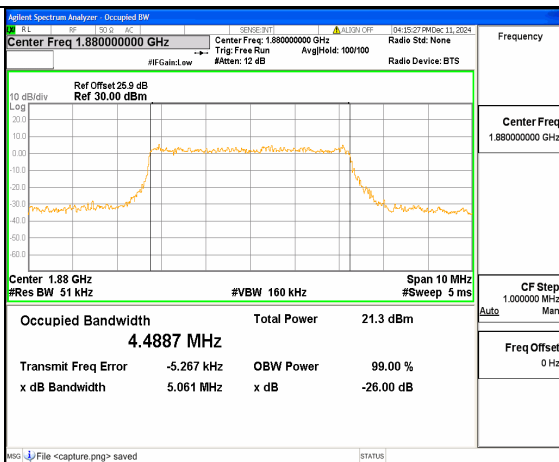
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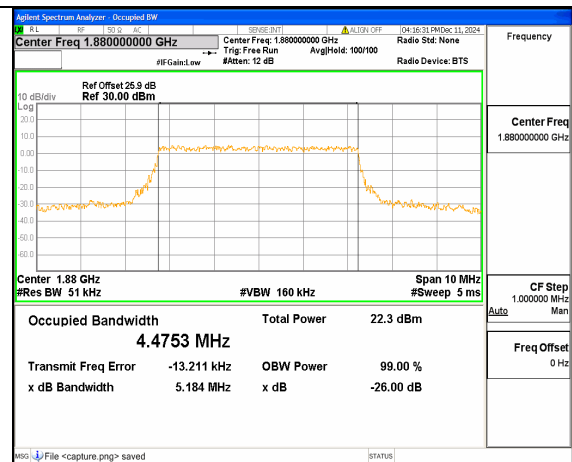
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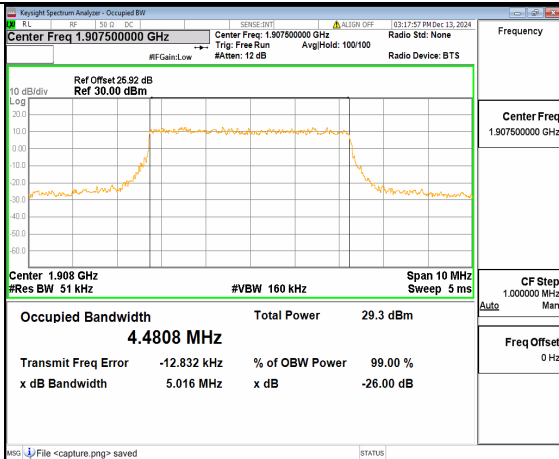
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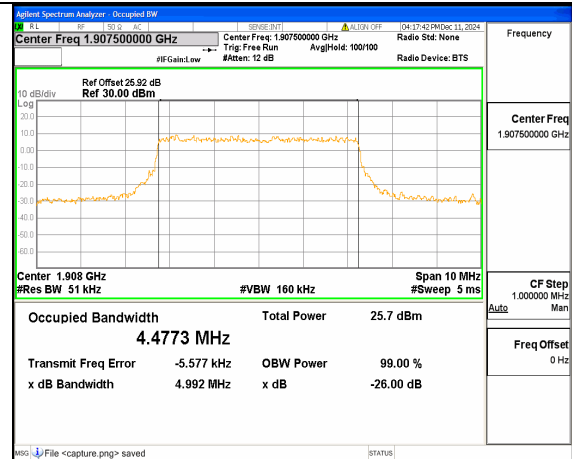
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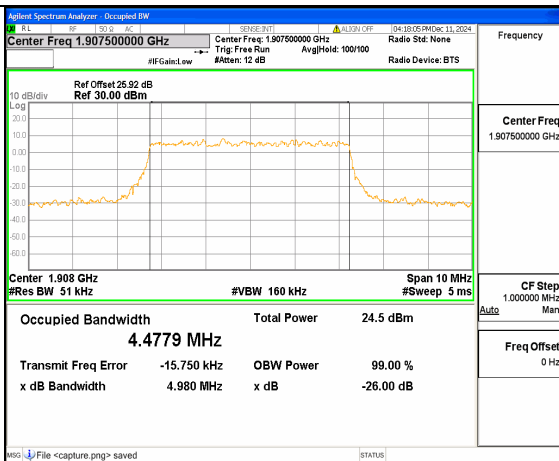
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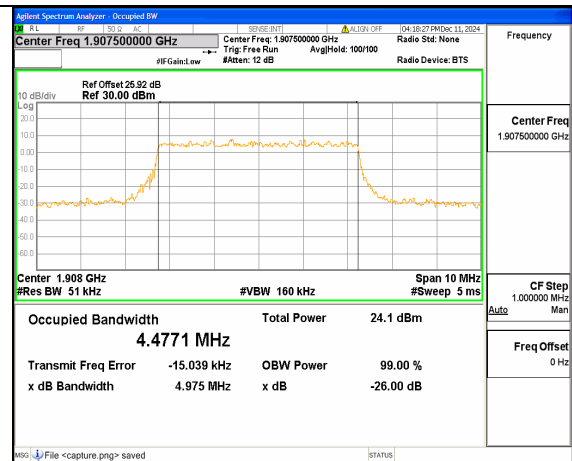
n2 5M DFT-s-OFDM BPSK Outer_Full High



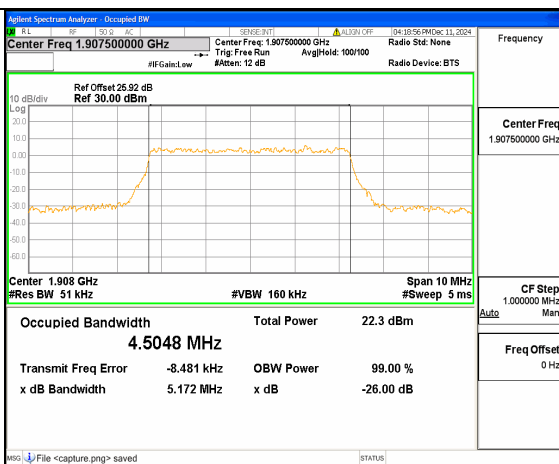
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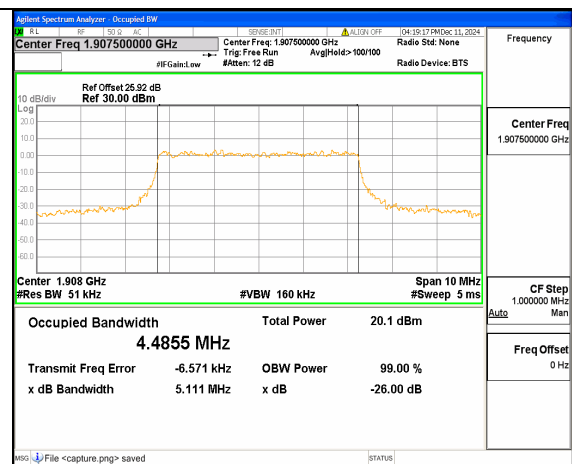
n2 5M DFT-s-OFDM 16QAM Outer_Full High



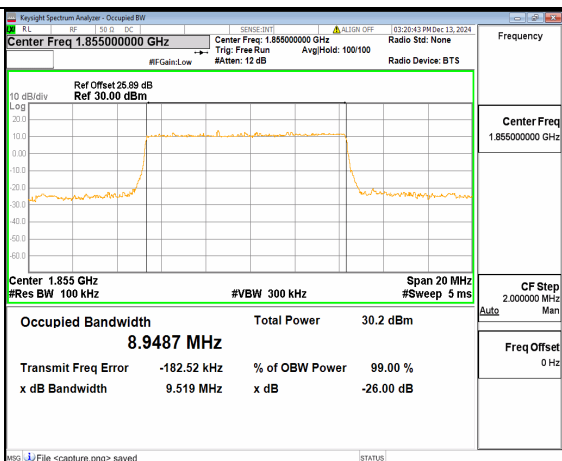
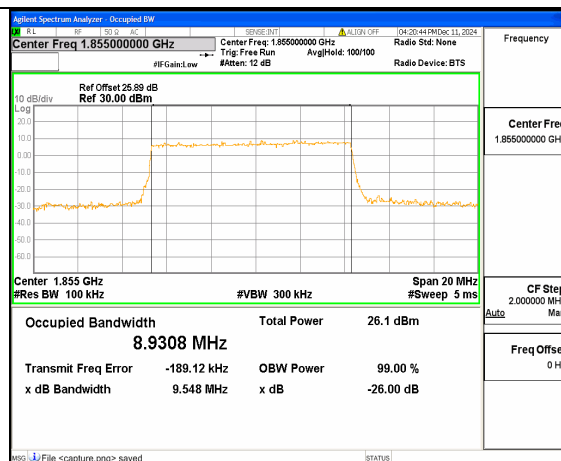
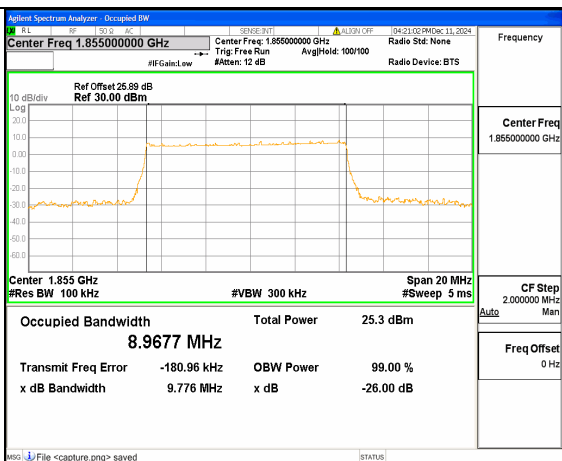
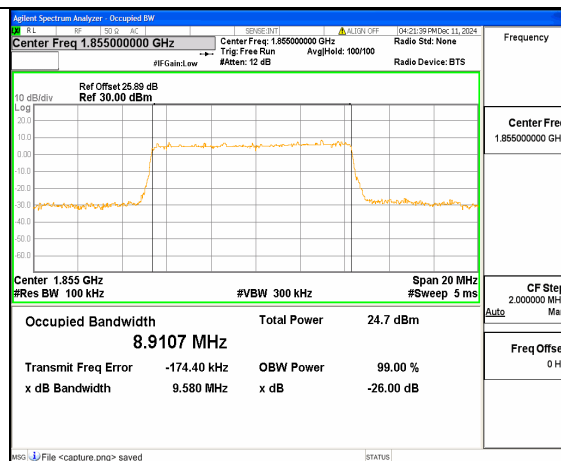
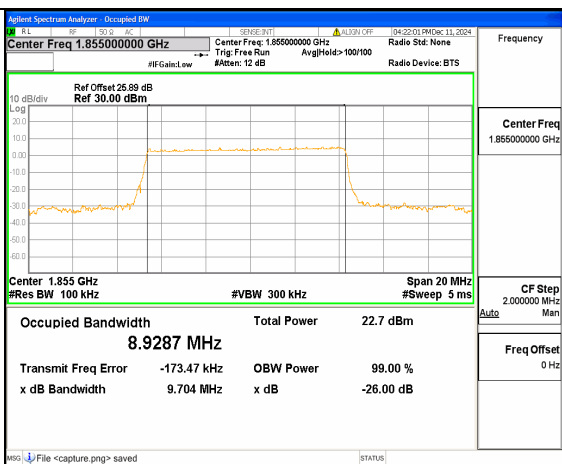
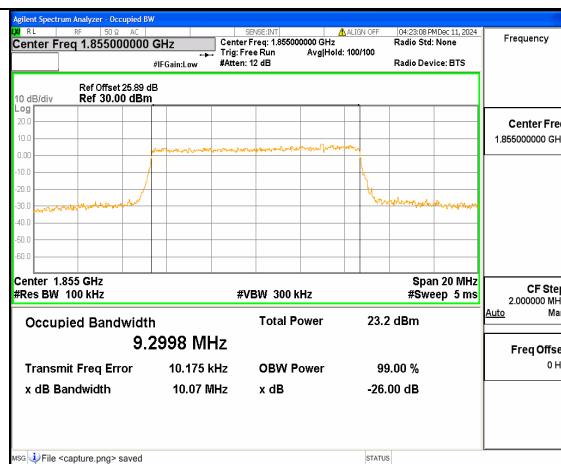
n2 5M DFT-s-OFDM 64QAM Outer_Full High



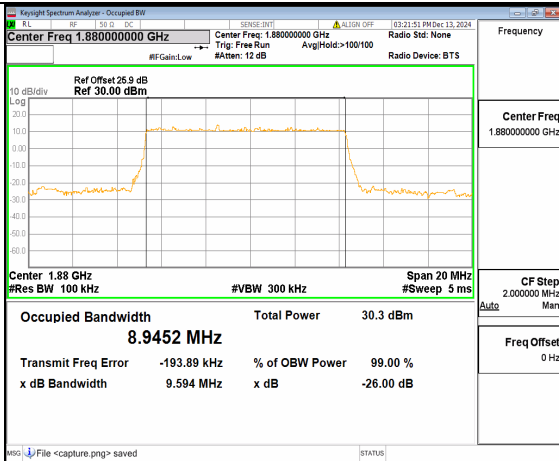
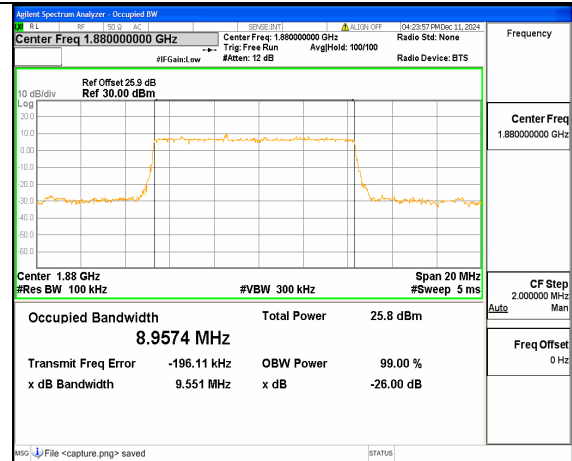
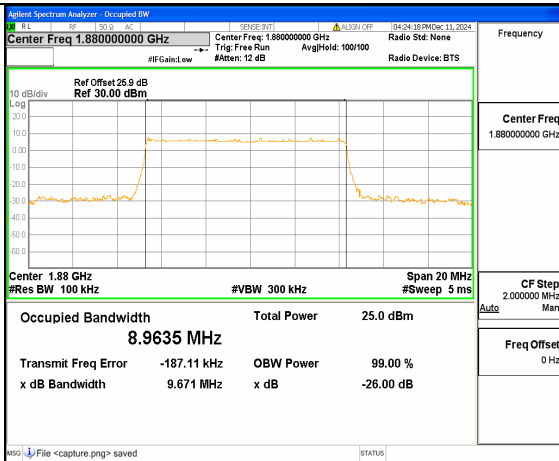
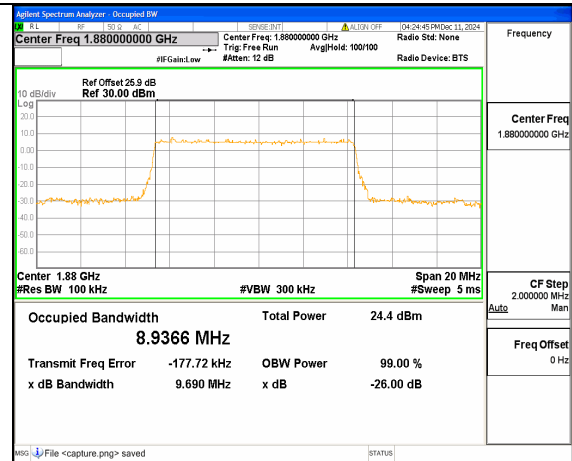
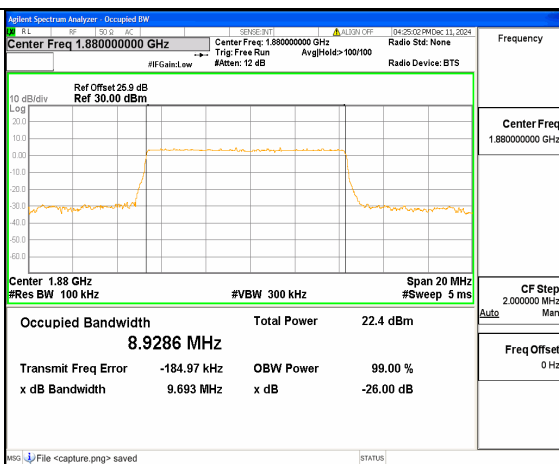
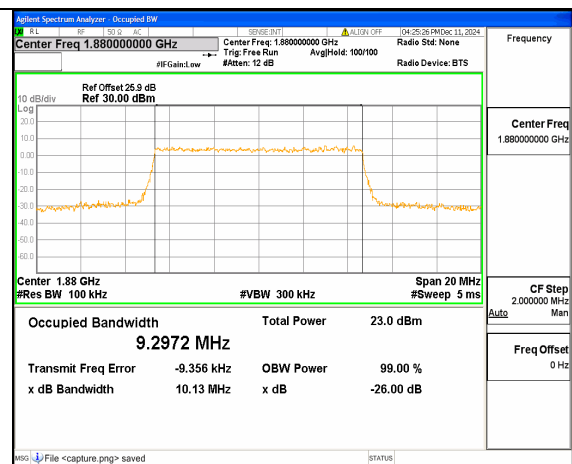
n2 5M DFT-s-OFDM 256QAM Outer_Full High



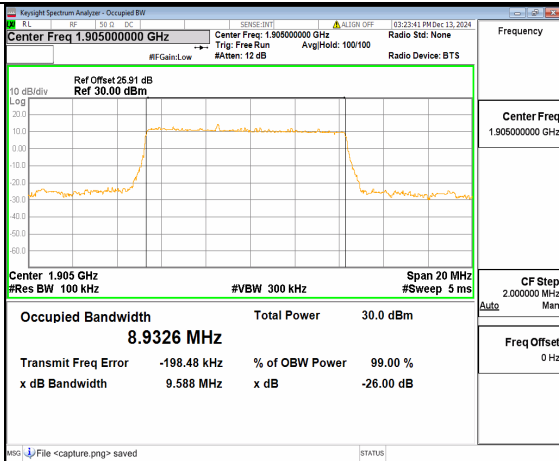
n2 5M CP-OFDM QPSK Outer_Full High

n2 10M DFT-s-OFDM BPSK Outer_Full
Lown2 10M DFT-s-OFDM QPSK Outer_Full
Lown2 10M DFT-s-OFDM 16QAM Outer_Full
Lown2 10M DFT-s-OFDM 64QAM Outer_Full
Lown2 10M DFT-s-OFDM 256QAM Outer_Full
Low

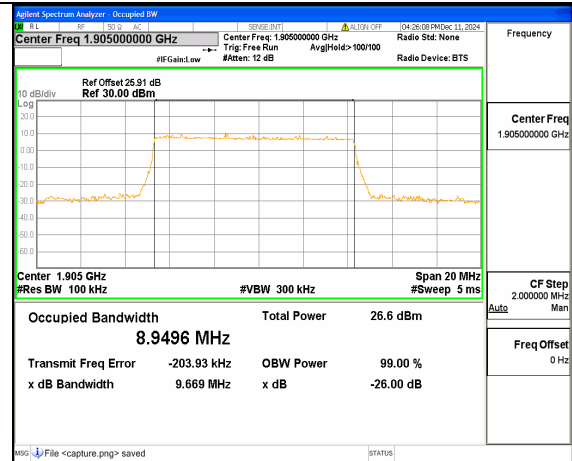
n2 10M CP-OFDM QPSK Outer_Full Low

n2 10M DFT-s-OFDM BPSK Outer_Full
Midn2 10M DFT-s-OFDM QPSK Outer_Full
Midn2 10M DFT-s-OFDM 16QAM Outer_Full
Midn2 10M DFT-s-OFDM 64QAM Outer_Full
Midn2 10M DFT-s-OFDM 256QAM Outer_Full
Mid

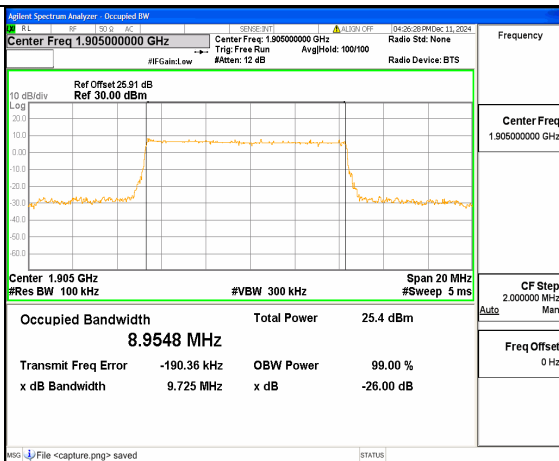
n2 10M CP-OFDM QPSK Outer_Full Mid



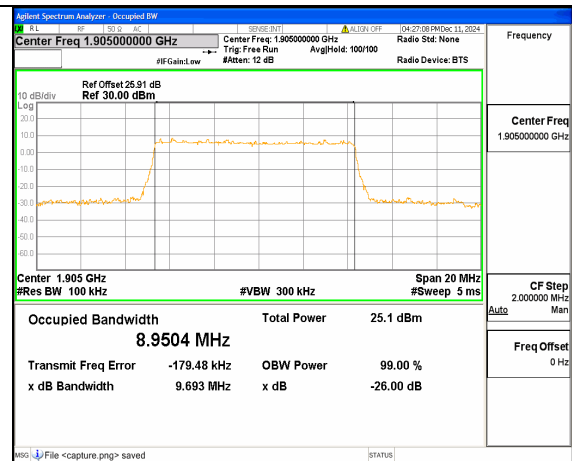
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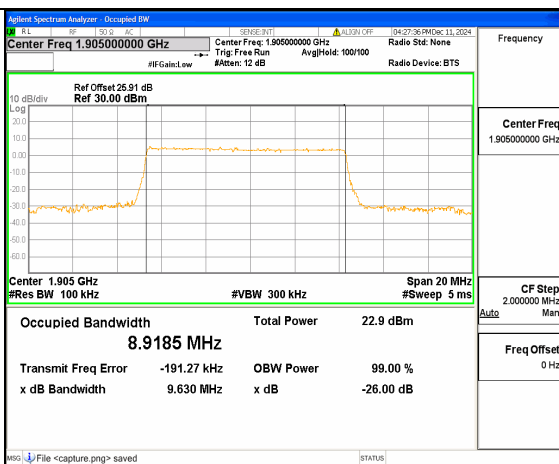
n2 10M DFT-s-OFDM QPSK Outer_Full High



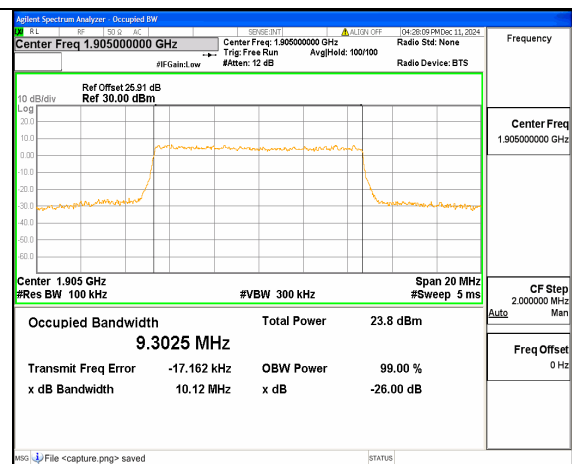
n2 10M DFT-s-OFDM 16QAM Outer_Full High



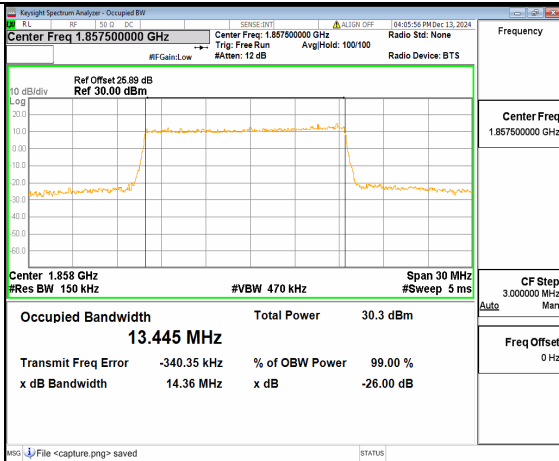
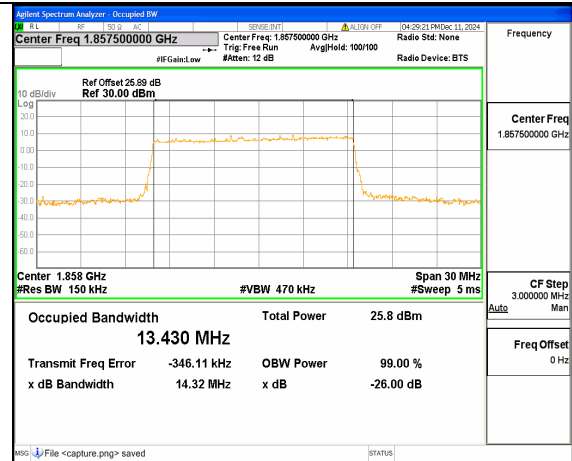
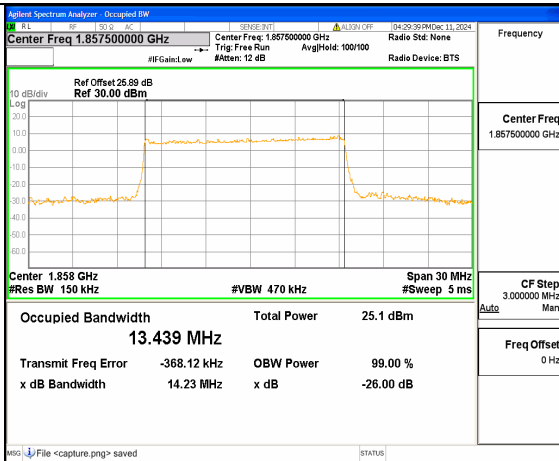
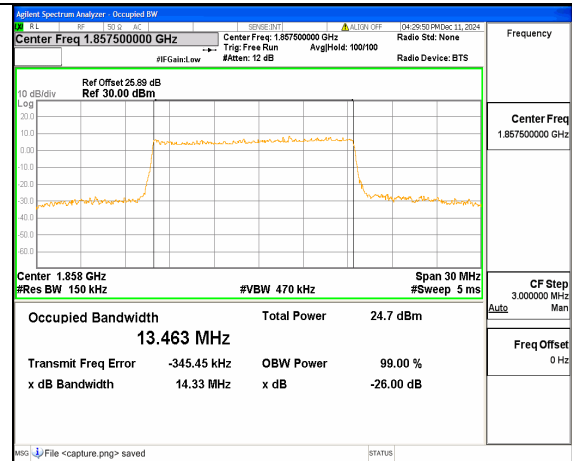
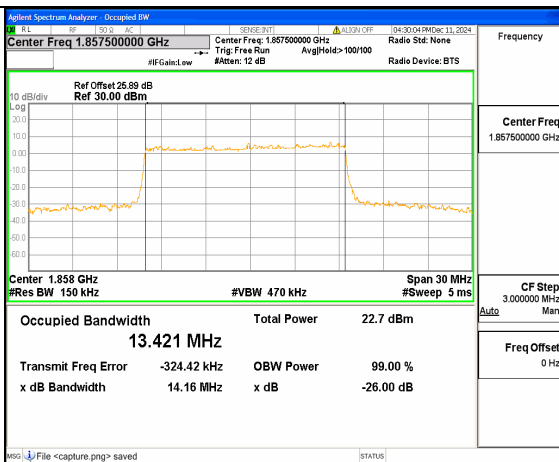
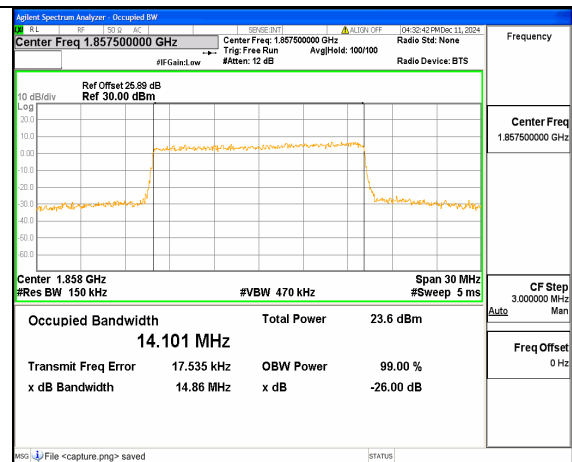
n2 10M DFT-s-OFDM 64QAM Outer_Full High



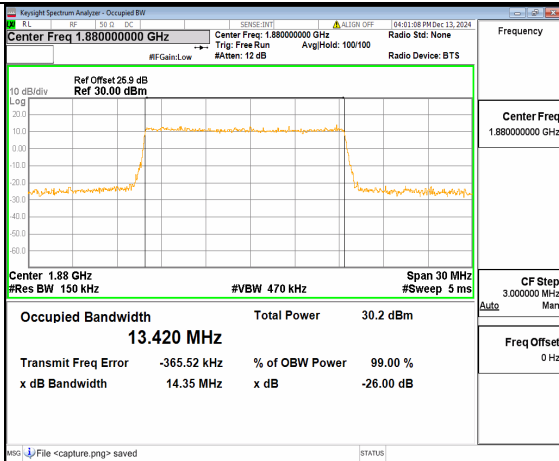
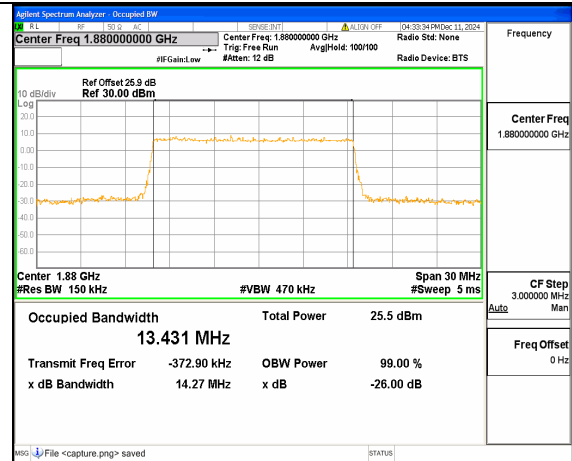
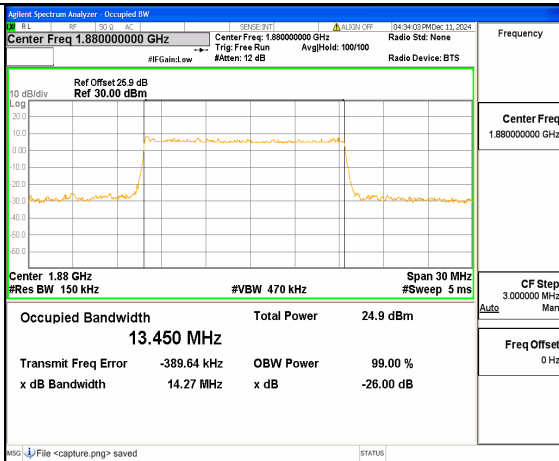
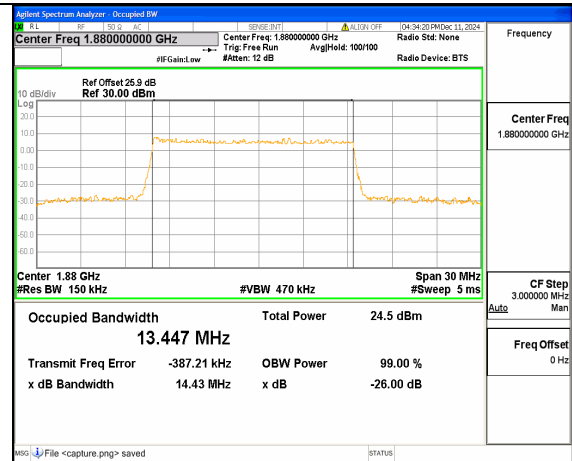
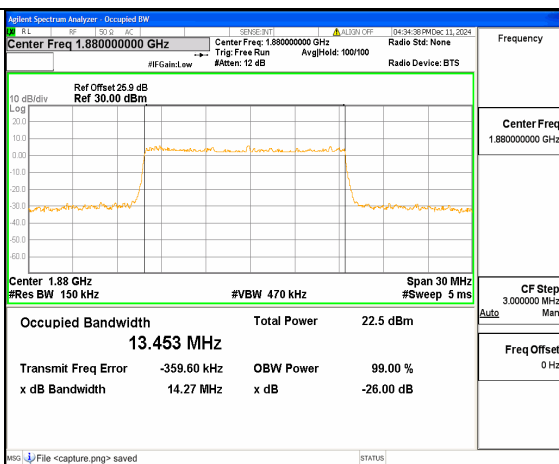
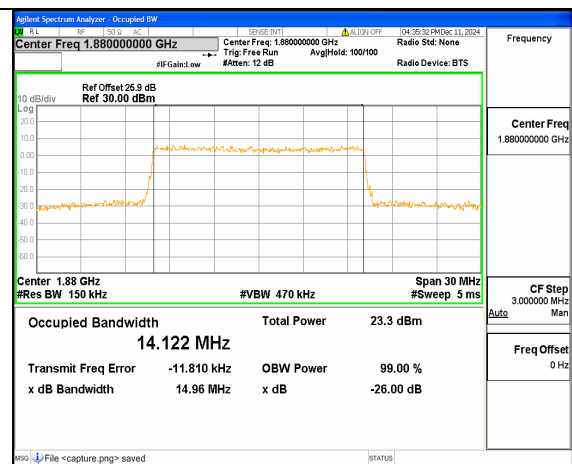
n2 10M DFT-s-OFDM 256QAM Outer_Full High



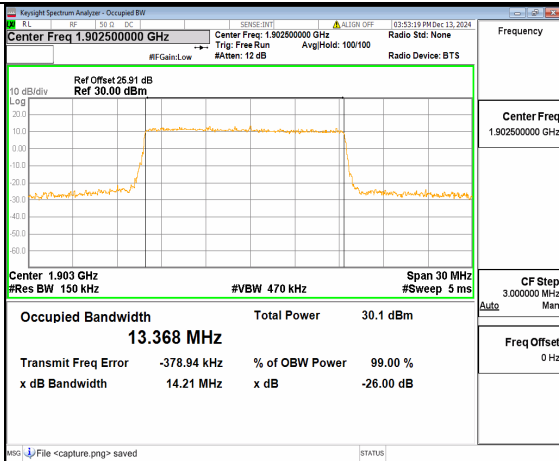
n2 10M CP-OFDM QPSK Outer_Full High

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
Low

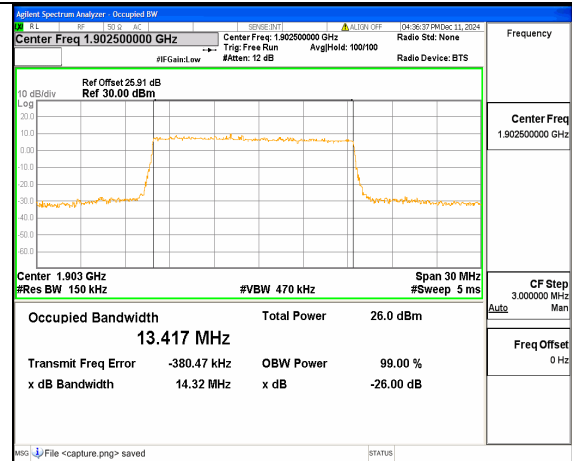
n2 15M CP-OFDM QPSK Outer_Full Low

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
Mid

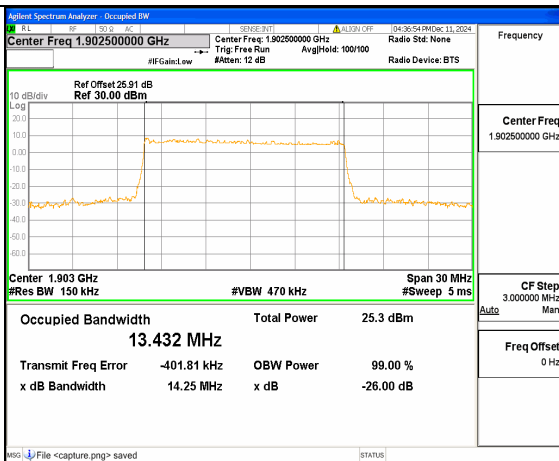
n2 15M CP-OFDM QPSK Outer_Full Mid



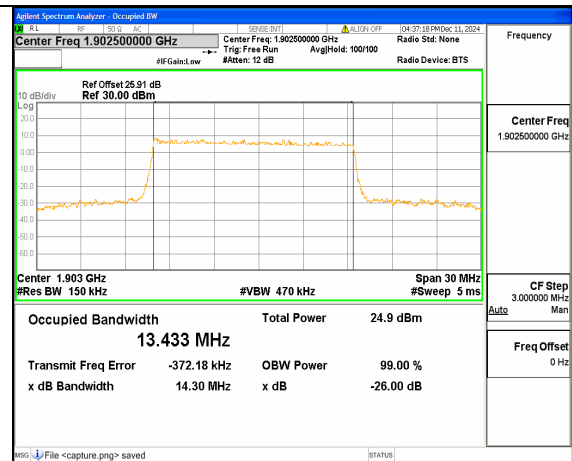
n2 15M DFT-s-OFDM BPSK Outer_Full High



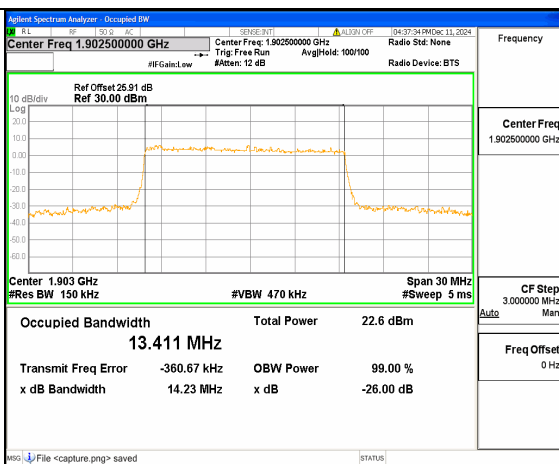
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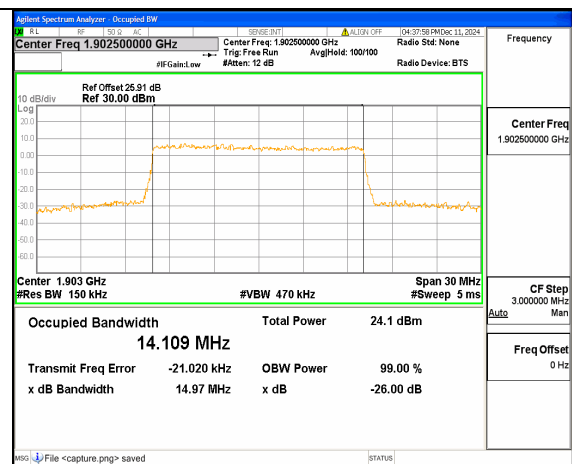
n2 15M DFT-s-OFDM 16QAM Outer_Full High



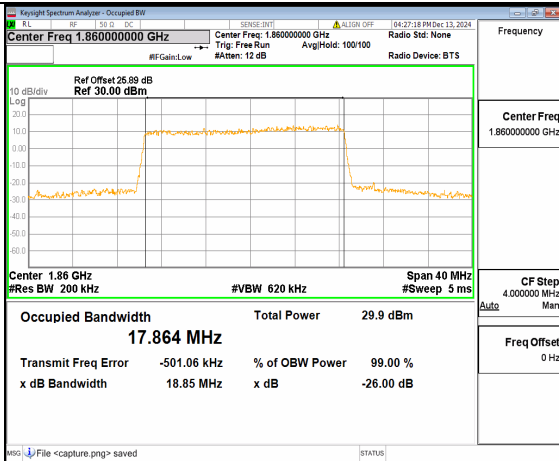
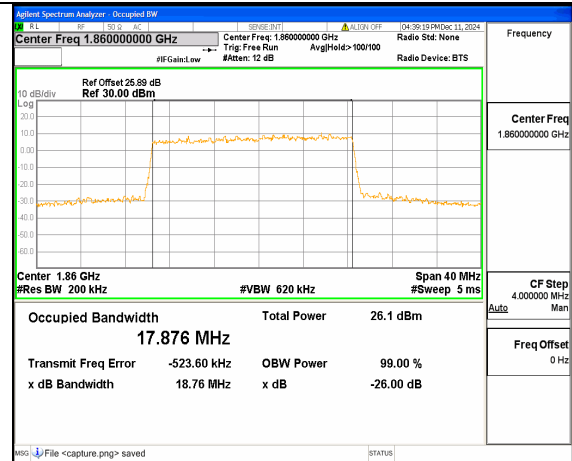
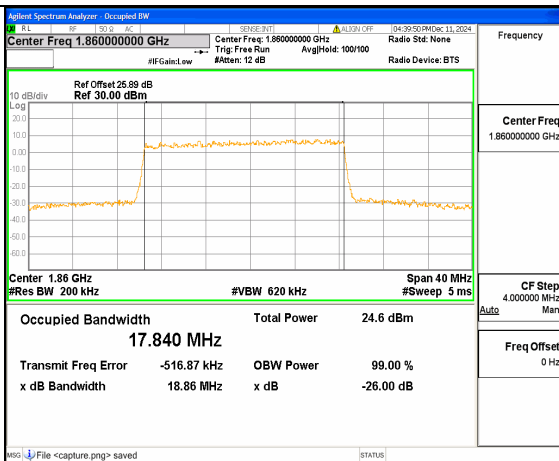
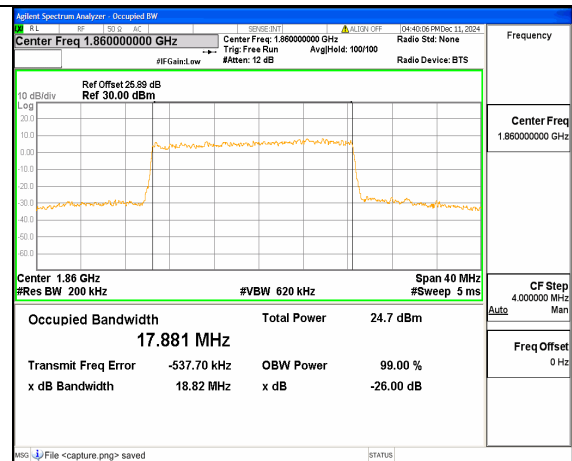
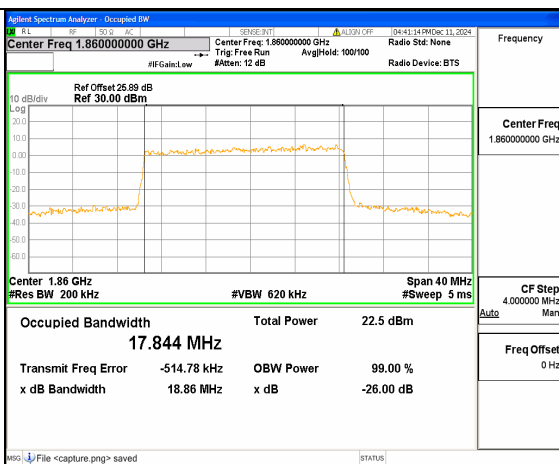
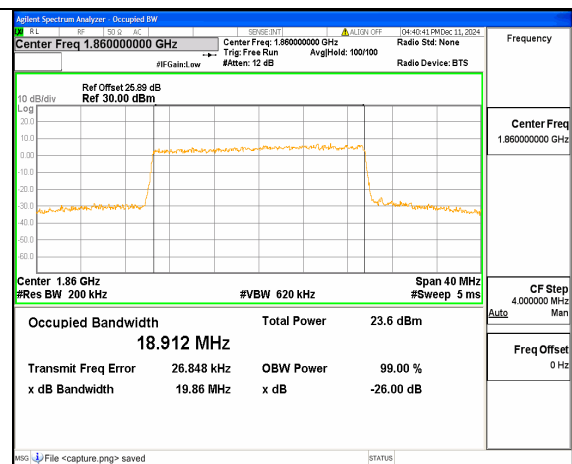
n2 15M DFT-s-OFDM 64QAM Outer_Full High



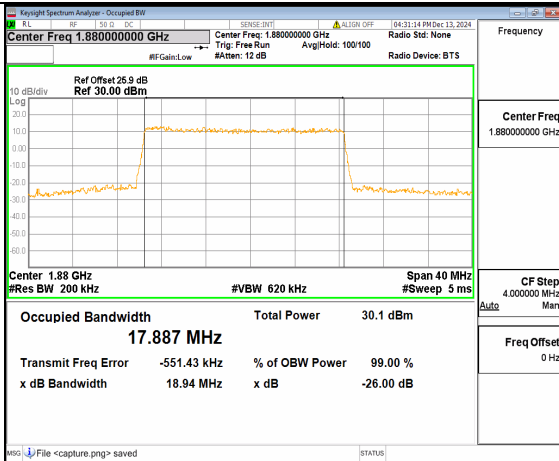
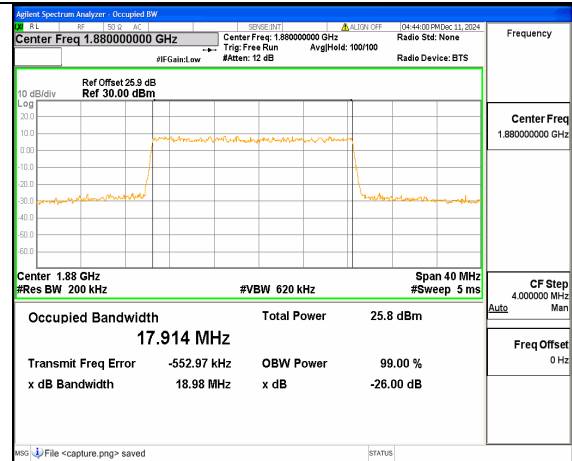
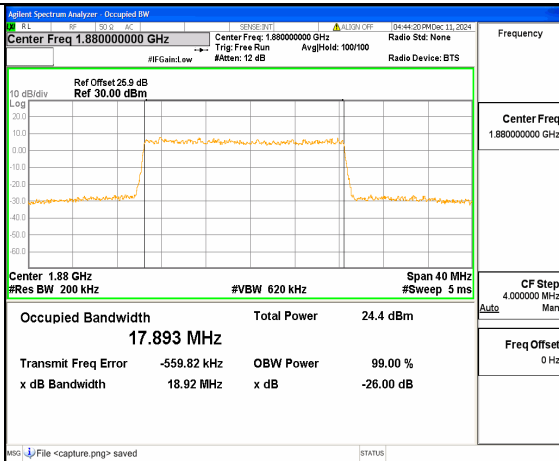
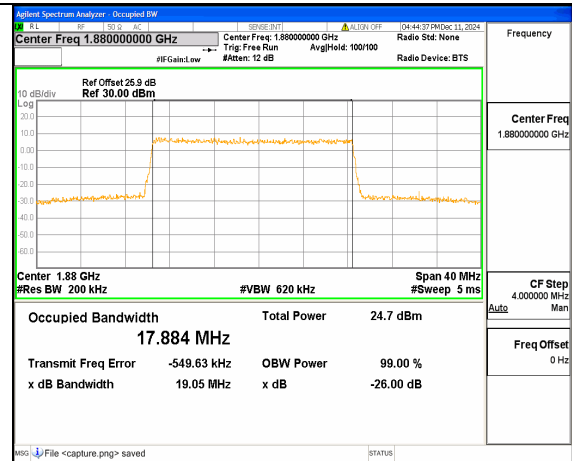
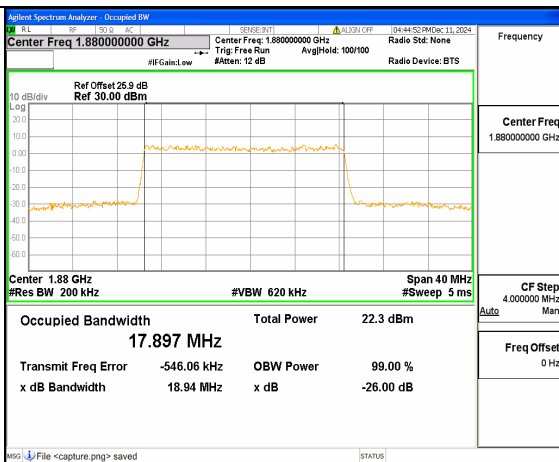
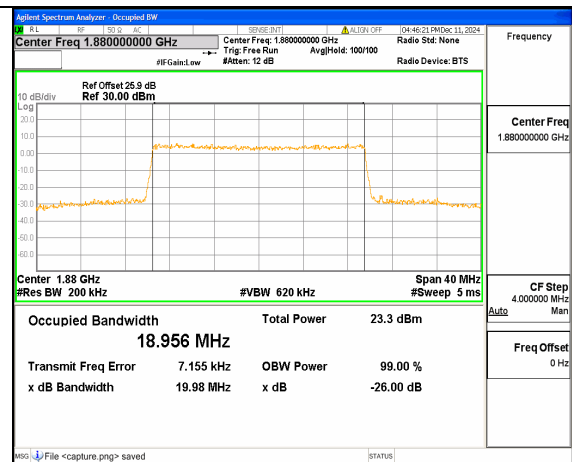
n2 15M DFT-s-OFDM 256QAM Outer_Full High



n2 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
Low

n2 20M CP-OFDM QPSK Outer_Full Low

n2 20M DFT-s-OFDM BPSK Outer_Full
Midn2 20M DFT-s-OFDM QPSK Outer_Full
Midn2 20M DFT-s-OFDM 16QAM Outer_Full
Midn2 20M DFT-s-OFDM 64QAM Outer_Full
Midn2 20M DFT-s-OFDM 256QAM Outer_Full
Mid

n2 20M CP-OFDM QPSK Outer_Full Mid