



REPORT No.: SZ23070206W02

TEST REPORT

APPLICANT : Reliance Communications, LLC

PRODUCT NAME : Orbic Speed X 5G

MODEL NAME : R562L5

BRAND NAME : Orbic

FCC ID : 2ABGH-R562L5

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

RECEIPT DATE : 2023-09-26

TEST DATE : 2023-10-07 to 2023-12-28

ISSUE DATE : 2024-04-08



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Change History		
Version	Date	Reason for change
1.0	2024-04-08	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications, LLC
Applicant Address:	555 Wireless Blvd. Hauppauge, NY 11788, USA
Manufacturer:	MeiG Smart Technology Co., Ltd
Manufacturer Address:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic Speed X 5G	
Hardware Version:	SPEEDVZ_V1.02_PCB	
Software Version:	R562L5_8.222.41_EQ103	
Sample No.:	1#	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
Power Class:	PC2:	n77
	PC3:	n2, n5, n66
EN-DC Band:	n2	DC_5A_n2, DC_13A_n2, DC_66A_n2
	n5	DC_2A_n5, DC_48A_n5, DC_66A_n5
	n66	DC_2A_n66, DC_5A_n66, DC_13A_n66,
	n77	DC_2A_n77, DC_5A_n77, DC_13A_n77, DC_66A_n77
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n66	Tx: 1710MHz-1780MHz
		Rx: 2110MHz-2200MHz
	n77 : (enabling bands)	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3980MHz



		Rx: 3700MHz-3980MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz
	n77	10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz , 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	n2	ANT0:1.75dBi, ANT4: 1.72dBi
	n5	ANT0: 0.86dBi
	n66	ANT0: 1.62dBi, ANT4: 1.91dBi
	n77	ANT2: 2.43dBi, ANT5: 2.5dBi
Accessory Information:	Battery :	
	Brand Name:	Orbic
	Model No.:	R562L5
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd
	AC Adapter :	
	Brand Name:	Orbic
	Model No.:	OACH023US1
	Serial No.:	N/A
	Rated Input:	100-240V~50/60HZ, 0.5A
	Rated Output:	5V=3A or 9V=5A or 12V=1.5A
	Manufacturer 1 :	WATAI ELECTRONICS PRIVATE LIMITED
	Manufacturer 2 :	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD
	USB Cable :	
	Model No.:	OAUC023US1
	Manufacturer:	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD

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

Note 2: 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

5A_n2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.487	4M49G7D
	QPSK	22.70	24.45	0.279	4.482	4M48G7D
	16QAM	/	/	/	4.503	4M50W7D
	64QAM	/	/	/	4.506	4M51W7D
	256QAM	/	/	/	4.484	4M48W7D
	CP-QPSK	/	/	/	4.490	4M49G7D
10	PI/2 BPSK	/	/	/	8.927	8M93G7D
	QPSK	22.67	24.42	0.277	8.928	8M93G7D
	16QAM	/	/	/	8.905	8M91W7D
	64QAM	/	/	/	8.920	8M92W7D
	256QAM	/	/	/	8.946	8M95W7D
	CP-QPSK	/	/	/	9.299	9M30G7D
15	PI/2 BPSK	/	/	/	13.411	13M4G7D
	QPSK	22.82	24.57	0.286	13.392	13M4G7D
	16QAM	/	/	/	13.426	13M4W7D
	64QAM	/	/	/	13.420	13M4W7D
	256QAM	/	/	/	13.449	13M4W7D
	CP-QPSK	/	/	/	14.099	14M1G7D
20	PI/2 BPSK	22.86	24.61	0.289	17.885	17M9G7D
	QPSK	22.89	24.64	0.291	17.894	17M9G7D
	16QAM	22.85	24.60	0.288	17.881	17M9W7D
	64QAM	21.34	23.09	0.204	17.877	17M9W7D
	256QAM	19.47	21.22	0.132	17.863	17M9W7D
	CP-QPSK	/	/	/	18.944	18M9G7D



13A_n2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.65	24.40	0.275	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
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.67	24.42	0.277	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	22.74	24.49	0.281	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	22.76	24.51	0.282	N/A	N/A
	QPSK	22.78	24.53	0.284	N/A	N/A
	16QAM	22.75	24.50	0.282	N/A	N/A
	64QAM	21.16	22.91	0.195	N/A	N/A
	256QAM	19.45	21.20	0.132	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

66A_n2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.66	24.41	0.276	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
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.69	24.44	0.278	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	22.72	24.47	0.280	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	22.77	24.52	0.283	N/A	N/A
	QPSK	22.79	24.54	0.284	N/A	N/A
	16QAM	22.72	24.47	0.280	N/A	N/A
	64QAM	21.22	22.97	0.198	N/A	N/A
	256QAM	19.48	21.23	0.133	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



2A_n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.485	4M49G7D
	QPSK	22.87	23.73	0.236	4.483	4M48G7D
	16QAM	/	/	/	4.489	4M49W7D
	64QAM	/	/	/	4.518	4M52W7D
	256QAM	/	/	/	4.485	4M49W7D
	CP-QPSK	/	/	/	4.486	4M49G7D
10	PI/2 BPSK	/	/	/	8.923	8M92G7D
	QPSK	22.81	23.67	0.233	8.933	8M93G7D
	16QAM	/	/	/	8.906	8M91W7D
	64QAM	/	/	/	8.932	8M93W7D
	256QAM	/	/	/	8.943	8M94W7D
	CP-QPSK	/	/	/	9.310	9M31G7D
15	PI/2 BPSK	/	/	/	13.408	13M4G7D
	QPSK	22.96	23.82	0.241	13.396	13M4G7D
	16QAM	/	/	/	13.426	13M4W7D
	64QAM	/	/	/	13.410	13M4W7D
	256QAM	/	/	/	13.437	13M4W7D
	CP-QPSK	/	/	/	14.082	14M1G7D
20	PI/2 BPSK	22.97	23.83	0.242	17.805	17M8G7D
	QPSK	22.99	23.85	0.243	17.814	17M8G7D
	16QAM	22.93	23.79	0.239	17.806	17M8W7D
	64QAM	21.38	22.24	0.167	17.802	17M8W7D
	256QAM	19.57	20.43	0.110	17.786	17M8W7D
	CP-QPSK	/	/	/	18.852	18M9G7D



48A_n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.20	23.06	0.202	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
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.10	22.96	0.198	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	22.29	23.15	0.207	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	22.34	23.20	0.209	N/A	N/A
	QPSK	22.37	23.23	0.210	N/A	N/A
	16QAM	22.32	23.18	0.208	N/A	N/A
	64QAM	20.78	21.64	0.146	N/A	N/A
	256QAM	18.98	19.84	0.096	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



66A_n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.68	23.54	0.226	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.66	23.52	0.225	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	22.81	23.67	0.233	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	22.76	23.62	0.230	N/A	N/A
	QPSK	22.85	23.71	0.235	N/A	N/A
	16QAM	22.82	23.68	0.233	N/A	N/A
	64QAM	21.19	22.05	0.160	N/A	N/A
	256QAM	18.61	19.47	0.089	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



2A_n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.69	24.60	0.288	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
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.58	24.49	0.281	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	22.75	24.66	0.292	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	/	/	/	N/A	N/A
	QPSK	22.77	24.68	0.294	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.67	24.58	0.287	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	22.77	24.68	0.294	N/A	N/A
	QPSK	22.82	24.73	0.297	N/A	N/A
	16QAM	22.80	24.71	0.296	N/A	N/A



	64QAM	21.26	23.17	0.207	N/A	N/A
	256QAM	19.49	21.40	0.138	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

5A_n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.70	24.61	0.289	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
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.68	24.59	0.288	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	22.70	24.61	0.289	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	/	/	/	N/A	N/A
	QPSK	22.73	24.64	0.291	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	22.69	24.60	0.288	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A



	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	22.79	24.70	0.295	N/A	N/A
	QPSK	22.81	24.72	0.296	N/A	N/A
	16QAM	22.78	24.69	0.294	N/A	N/A
	64QAM	21.17	23.08	0.203	N/A	N/A
	256QAM	19.43	21.34	0.136	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

13A_n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.489	4M49G7D
	QPSK	22.68	24.59	0.288	4.478	4M48G7D
	16QAM	/	/	/	4.490	4M49W7D
	64QAM	/	/	/	4.507	4M51W7D
	256QAM	/	/	/	4.484	4M48W7D
	CP-QPSK	/	/	/	4.483	4M48G7D
10	PI/2 BPSK	/	/	/	8.929	8M93G7D
	QPSK	22.67	24.58	0.287	8.934	8M93G7D
	16QAM	/	/	/	8.911	8M91W7D
	64QAM	/	/	/	8.943	8M94W7D
	256QAM	/	/	/	8.951	8M95W7D
	CP-QPSK	/	/	/	9.304	9M30G7D
15	PI/2 BPSK	/	/	/	13.439	13M4G7D
	QPSK	22.71	24.62	0.290	13.418	13M4G7D
	16QAM	/	/	/	13.442	13M4W7D
	64QAM	/	/	/	13.439	13M4W7D
	256QAM	/	/	/	13.470	13M5W7D
	CP-QPSK	/	/	/	14.111	14M1G7D
20	PI/2 BPSK	/	/	/	17.888	17M9G7D
	QPSK	22.75	24.66	0.292	17.895	17M9G7D
	16QAM	/	/	/	17.857	17M9W7D
	64QAM	/	/	/	17.857	17M9W7D
	256QAM	/	/	/	17.852	17M9W7D
	CP-QPSK	/	/	/	18.940	18M9G7D
30	PI/2 BPSK	/	/	/	28.562	28M6G7D



	QPSK	22.72	24.63	0.290	28.665	28M7G7D
	16QAM	/	/	/	28.591	28M6W7D
	64QAM	/	/	/	28.537	28M5W7D
	256QAM	/	/	/	28.601	28M6W7D
	CP-QPSK	/	/	/	28.584	28M6G7D
40	PI/2 BPSK	22.82	24.73	0.297	38.491	38M5G7D
	QPSK	22.83	24.74	0.298	38.540	38M5G7D
	16QAM	22.74	24.65	0.292	38.518	38M5W7D
	64QAM	21.19	23.10	0.204	38.568	38M6W7D
	256QAM	19.45	21.36	0.137	38.592	38M6W7D
	CP-QPSK	/	/	/	38.520	38M5G7D

2A_n77(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	26.11	28.61	0.726	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	26.11	28.61	0.726	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	/	/	/	N/A	N/A
	QPSK	26.23	28.73	0.746	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.15	28.65	0.733	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.16	28.66	0.735	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.21	28.71	0.743	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.20	28.70	0.741	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.16	28.66	0.735	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.19	28.69	0.740	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.19	28.69	0.740	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A



	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	26.02	28.52	0.711	N/A	N/A
	QPSK	26.29	28.79	0.757	N/A	N/A
	16QAM	25.68	28.18	0.658	N/A	N/A
	64QAM	24.10	26.60	0.457	N/A	N/A
	256QAM	21.76	24.26	0.267	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

5A_n77(3450-3550MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.598	8M60G7D
	QPSK	26.10	28.60	0.724	8.608	8M61G7D
	16QAM	/	/	/	8.633	8M63W7D
	64QAM	/	/	/	8.610	8M61W7D
	256QAM	/	/	/	8.597	8M60W7D
	CP-QPSK	/	/	/	8.592	8M59G7D
15	PI/2 BPSK	/	/	/	12.876	12M9G7D
	QPSK	26.13	28.63	0.729	12.889	12M9G7D
	16QAM	/	/	/	12.888	12M9W7D
	64QAM	/	/	/	12.868	12M9W7D
	256QAM	/	/	/	12.878	12M9W7D
	CP-QPSK	/	/	/	12.881	12M9G7D
20	PI/2 BPSK	/	/	/	17.822	17M8G7D
	QPSK	26.15	28.65	0.733	17.857	17M9G7D
	16QAM	/	/	/	17.855	17M9W7D
	64QAM	/	/	/	17.834	17M8W7D
	256QAM	/	/	/	17.838	17M8W7D
	CP-QPSK	/	/	/	17.859	17M9G7D
30	PI/2 BPSK	/	/	/	26.807	26M8G7D
	QPSK	26.14	28.64	0.731	26.801	26M8G7D
	16QAM	/	/	/	26.836	26M8W7D
	64QAM	/	/	/	26.781	26M8W7D
	256QAM	/	/	/	26.831	26M8W7D
	CP-QPSK	/	/	/	26.776	26M8G7D



40	PI/2 BPSK	/	/	/	35.770	35M8G7D
	QPSK	26.20	28.70	0.741	35.748	35M7G7D
	16QAM	/	/	/	35.730	35M7W7D
	64QAM	/	/	/	35.702	35M7W7D
	256QAM	/	/	/	35.708	35M7W7D
	CP-QPSK	/	/	/	35.688	35M7G7D
50	PI/2 BPSK	/	/	/	45.680	45M7G7D
	QPSK	26.10	28.60	0.724	45.735	45M7G7D
	16QAM	/	/	/	45.676	45M7W7D
	64QAM	/	/	/	45.671	45M7W7D
	256QAM	/	/	/	45.771	45M8W7D
	CP-QPSK	/	/	/	45.703	45M7G7D
60	PI/2 BPSK	/	/	/	57.776	57M8G7D
	QPSK	26.02	28.52	0.711	57.768	57M8G7D
	16QAM	/	/	/	57.765	57M8W7D
	64QAM	/	/	/	57.753	57M8W7D
	256QAM	/	/	/	57.871	57M9W7D
	CP-QPSK	/	/	/	57.802	57M8G7D
70	PI/2 BPSK	/	/	/	64.208	64M2G7D
	QPSK	25.95	28.45	0.700	64.354	64M4G7D
	16QAM	/	/	/	64.220	64M2W7D
	64QAM	/	/	/	64.258	64M3W7D
	256QAM	/	/	/	64.295	64M3W7D
	CP-QPSK	/	/	/	64.282	64M3G7D
80	PI/2 BPSK	/	/	/	77.043	77M0G7D
	QPSK	25.92	28.42	0.695	77.068	77M1G7D
	16QAM	/	/	/	77.017	77M0W7D
	64QAM	/	/	/	77.139	77M1W7D
	256QAM	/	/	/	77.166	77M2W7D
	CP-QPSK	/	/	/	77.018	77M0G7D
90	PI/2 BPSK	/	/	/	86.672	86M7G7D
	QPSK	25.85	28.35	0.684	86.848	86M8G7D
	16QAM	/	/	/	86.745	86M7W7D
	64QAM	/	/	/	86.810	86M8W7D
	256QAM	/	/	/	86.636	86M6W7D
	CP-QPSK	/	/	/	86.735	86M7G7D
100	PI/2 BPSK	26.27	28.77	0.753	96.337	96M3G7D



	QPSK	26.33	28.83	0.764	96.342	96M3G7D
	16QAM	25.43	27.93	0.621	96.292	96M3W7D
	64QAM	23.56	26.06	0.404	96.148	96M1W7D
	256QAM	21.81	24.31	0.270	96.129	96M1W7D
	CP-QPSK	/	/	/	96.223	96M2G7D

13A_n77(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	26.03	28.53	0.713	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	26.08	28.58	0.721	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	/	/	/	N/A	N/A
	QPSK	26.10	28.60	0.724	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.12	28.62	0.728	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.11	28.61	0.726	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.09	28.59	0.723	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.03	28.53	0.713	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.10	28.60	0.724	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.09	28.59	0.723	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.11	28.61	0.726	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	26.08	28.58	0.721	N/A	N/A
	QPSK	26.31	28.81	0.760	N/A	N/A
	16QAM	25.21	27.71	0.590	N/A	N/A
	64QAM	23.88	26.38	0.435	N/A	N/A



	256QAM	21.55	24.05	0.254	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

66A_n77(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	26.07	28.57	0.719	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	26.08	28.58	0.721	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	/	/	/	N/A	N/A
	QPSK	26.12	28.62	0.728	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.15	28.65	0.733	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.13	28.63	0.729	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.13	28.63	0.729	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.10	28.60	0.724	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.98	28.48	0.705	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.96	28.46	0.701	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.93	28.43	0.697	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	26.02	28.52	0.711	N/A	N/A
	QPSK	26.22	28.72	0.745	N/A	N/A
	16QAM	24.46	26.96	0.497	N/A	N/A
	64QAM	23.55	26.05	0.403	N/A	N/A
	256QAM	21.22	23.72	0.236	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



2A_n77(3700-3980MHz)						
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	26.10	28.60	0.724	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	26.13	28.63	0.729	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	/	/	/	N/A	N/A
	QPSK	26.07	28.57	0.719	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.09	28.59	0.723	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.13	28.63	0.729	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.99	28.49	0.706	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.74	28.24	0.667	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.77	28.27	0.671	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.85	28.35	0.684	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.88	28.38	0.689	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	26.20	28.70	0.741	N/A	N/A
	QPSK	26.21	28.71	0.743	N/A	N/A
	16QAM	24.89	27.39	0.548	N/A	N/A
	64QAM	23.23	25.73	0.374	N/A	N/A
	256QAM	21.30	23.80	0.240	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



5A_n77(3700-3980MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8.626	8M63G7D
	QPSK	26.10	28.60	0.724	8.635	8M64G7D
	16QAM	/	/	/	8.602	8M60W7D
	64QAM	/	/	/	8.594	8M59W7D
	256QAM	/	/	/	8.607	8M61W7D
	CP-QPSK	/	/	/	8.614	8M61G7D
15	PI/2 BPSK	/	/	/	12.855	12M9G7D
	QPSK	26.09	28.59	0.723	12.843	12M8G7D
	16QAM	/	/	/	12.863	12M9W7D
	64QAM	/	/	/	12.846	12M8W7D
	256QAM	/	/	/	12.869	12M9W7D
	CP-QPSK	/	/	/	12.864	12M9G7D
20	PI/2 BPSK	/	/	/	17.818	17M8G7D
	QPSK	26.11	28.61	0.726	17.828	17M8G7D
	16QAM	/	/	/	17.825	17M8W7D
	64QAM	/	/	/	17.826	17M8W7D
	256QAM	/	/	/	17.824	17M8W7D
	CP-QPSK	/	/	/	17.867	17M9G7D
30	PI/2 BPSK	/	/	/	26.791	26M8G7D
	QPSK	26.02	28.52	0.711	26.783	26M8G7D
	16QAM	/	/	/	26.796	26M8W7D
	64QAM	/	/	/	26.805	26M8W7D
	256QAM	/	/	/	26.810	26M8W7D
	CP-QPSK	/	/	/	26.790	26M8G7D
40	PI/2 BPSK	/	/	/	35.827	35M8G7D
	QPSK	26.10	28.60	0.724	35.774	35M8G7D
	16QAM	/	/	/	35.736	35M7W7D
	64QAM	/	/	/	35.759	35M8W7D
	256QAM	/	/	/	35.735	35M7W7D
	CP-QPSK	/	/	/	35.689	35M7G7D
50	PI/2 BPSK	/	/	/	45.727	45M7G7D
	QPSK	26.11	28.61	0.726	45.783	45M8G7D
	16QAM	/	/	/	45.704	45M7W7D



	64QAM	/	/	/	45.676	45M7W7D
	256QAM	/	/	/	45.748	45M7W7D
	CP-QPSK	/	/	/	45.705	45M7G7D
60	PI/2 BPSK	/	/	/	57.818	57M8G7D
	QPSK	26.03	28.53	0.713	57.821	57M8G7D
	16QAM	/	/	/	57.873	57M9W7D
	64QAM	/	/	/	57.787	57M8W7D
	256QAM	/	/	/	57.967	58M0W7D
	CP-QPSK	/	/	/	57.814	57M8G7D
	PI/2 BPSK	/	/	/	64.245	64M2G7D
70	QPSK	26.05	28.55	0.716	64.294	64M3G7D
	16QAM	/	/	/	64.235	64M2W7D
	64QAM	/	/	/	64.302	64M3W7D
	256QAM	/	/	/	64.198	64M2W7D
	CP-QPSK	/	/	/	64.323	64M3G7D
	PI/2 BPSK	/	/	/	77.002	77M0G7D
80	QPSK	26.08	28.58	0.721	77.026	77M0G7D
	16QAM	/	/	/	77.079	77M1W7D
	64QAM	/	/	/	77.102	77M1W7D
	256QAM	/	/	/	77.203	77M2W7D
	CP-QPSK	/	/	/	76.981	77M0G7D
	PI/2 BPSK	/	/	/	86.640	86M6G7D
90	QPSK	26.01	28.51	0.710	86.776	86M8G7D
	16QAM	/	/	/	86.771	86M8W7D
	64QAM	/	/	/	86.767	86M8W7D
	256QAM	/	/	/	86.560	86M6W7D
	CP-QPSK	/	/	/	86.706	86M7G7D
	PI/2 BPSK	26.20	28.70	0.741	96.430	96M4G7D
100	QPSK	26.24	28.74	0.748	96.220	96M2G7D
	16QAM	24.62	27.12	0.515	96.285	96M3W7D
	64QAM	23.32	25.82	0.382	96.258	96M3W7D
	256QAM	21.36	23.86	0.243	96.232	96M2W7D
	CP-QPSK	/	/	/	96.304	96M3G7D
	PI/2 BPSK	/	/	/	96.304	96M3G7D



13A_n77(3700-3980MHz)						
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	26.11	28.61	0.726	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	26.07	28.57	0.719	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	/	/	/	N/A	N/A
	QPSK	26.13	28.63	0.729	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.11	28.61	0.726	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.08	28.58	0.721	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.04	28.54	0.714	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.03	28.53	0.713	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.01	28.51	0.710	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.05	28.55	0.716	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.02	28.52	0.711	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	25.98	28.48	0.705	N/A	N/A
	QPSK	26.20	28.70	0.741	N/A	N/A
	16QAM	24.88	27.38	0.547	N/A	N/A
	64QAM	23.53	26.03	0.401	N/A	N/A
	256QAM	21.33	23.83	0.242	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



66A_n77(3700-3980MHz)						
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	26.10	28.60	0.724	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	26.20	28.70	0.741	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	/	/	/	N/A	N/A
	QPSK	26.15	28.65	0.733	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.10	28.60	0.724	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.12	28.62	0.728	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.12	28.62	0.728	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	26.03	28.53	0.713	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.76	28.26	0.670	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.85	28.35	0.684	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	25.89	28.39	0.690	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	25.94	28.44	0.698	N/A	N/A
	QPSK	26.20	28.70	0.741	N/A	N/A
	16QAM	24.89	27.39	0.548	N/A	N/A
	64QAM	23.58	26.08	0.406	N/A	N/A
	256QAM	21.48	23.98	0.250	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 and Part 27 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

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

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



n5			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 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

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".



n77(3450~3550MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(K)(3)	EIRP $\leq$ 1W	PASS
Peak-Average Ratio	§27.50(K)(4)	$\leq$ 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)	$\leq$ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	$\leq$ -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".

n77(3700~3980MHz)			
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	Li Huaijie	PASS	Nodeviation
Occupied Bandwidth	Li Huaijie	PASS	Nodeviation
Frequency Stability	Li Huaijie	PASS	Nodeviation
Peak to Average Radio	Li Huaijie	PASS	Nodeviation
Conducted Spurious Emissions	Li Huaijie	PASS	Nodeviation
Band Edge	Li Huaijie	PASS	Nodeviation
Radiated Spurious Emissions	Su Zhan Lin 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
Atmospheric Pressure (kPa):	86-106

2. Summary Test Results And Description

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

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

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

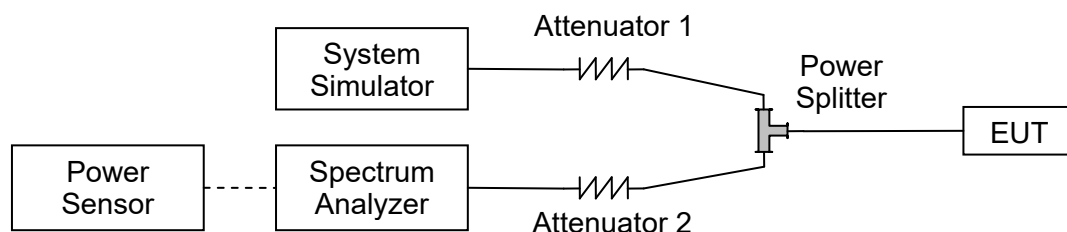
According to FCC section 22.913 (a)(5) for n5, n26(824-849MHz), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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

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

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

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

5A_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.83	22.79	22.58
20		1	53	22.86	22.68	22.55
20		1	104	22.84	22.62	22.62
20		50	1	22.78	22.69	22.57
20		50	25	22.86	22.67	22.60
20		50	50	22.72	22.64	22.62
20		100	0	22.76	22.71	22.62
20	DFT-s-OFDM QPSK	1	1	22.79	22.89	22.84
20		1	53	22.72	22.68	22.58
20		1	104	22.71	22.55	22.58
20		50	1	22.38	22.40	22.26
20		50	25	22.25	22.33	22.25
20		50	50	22.34	22.30	22.21
20		100	0	22.21	22.44	22.26
20	DFT-s-OFDM 16QAM	1	1	22.85	22.78	22.63
20	DFT-s-OFDM 64QAM	1	1	21.18	21.15	21.34
20	DFT-s-OFDM 256QAM	1	1	19.47	19.44	19.09
20	CP-OFDM QPSK	1	1	21.65	21.61	21.53
20	CP-OFDM 16QAM	1	1	21.05	20.98	20.97
20	CP-OFDM 64QAM	1	1	19.82	19.73	19.59



20	CP-OFDM 256QAM	1	1	17.52	17.48	17.14
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.79	22.82	22.59
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.57	22.67	22.46
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.65	22.70	22.46

13A_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.70	22.65	22.57
20		1	53	22.72	22.64	22.58
20		1	104	22.73	22.56	22.59
20		50	1	22.72	22.64	22.57
20		50	25	22.76	22.65	22.60
20		50	50	22.70	22.64	22.61
20		100	0	22.74	22.67	22.63
20	DFT-s-OFDM QPSK	1	1	22.68	22.78	22.74
20		1	53	22.74	22.67	22.59
20		1	104	22.67	22.55	22.60
20		50	1	22.40	22.45	22.26
20		50	25	22.37	22.29	22.26
20		50	50	22.42	22.30	22.23
20		100	0	22.34	22.44	22.24
20	DFT-s-OFDM 16QAM	1	1	22.75	22.75	22.66
20	DFT-s-OFDM 64QAM	1	1	21.16	21.15	21.01
20	DFT-s-OFDM 256QAM	1	1	19.45	19.40	19.32
20	CP-OFDM QPSK	1	1	21.63	21.53	21.48



20	CP-OFDM 16QAM	1	1	20.96	20.93	20.87
20	CP-OFDM 64QAM	1	1	19.75	19.69	19.58
20	CP-OFDM 256QAM	1	1	17.48	17.40	17.30
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.68	22.74	22.53
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.60	22.67	22.48
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.61	22.65	22.53

66A_n2						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.73	22.68	22.59
20		1	53	22.77	22.67	22.58
20		1	104	22.74	22.62	22.65
20		50	1	22.69	22.69	22.62
20		50	25	22.75	22.69	22.63
20		50	50	22.76	22.64	22.61
20		100	0	22.75	22.67	22.61
20	DFT-s-OFDM QPSK	1	1	22.75	22.79	22.73
20		1	53	22.77	22.65	22.62
20		1	104	22.74	22.57	22.63
20		50	1	22.46	22.52	22.35
20		50	25	22.45	22.43	22.37
20		50	50	22.47	22.37	22.34
20		100	0	22.40	22.48	22.34
20	DFT-s-OFDM 16QAM	1	1	22.63	22.72	22.62
20	DFT-s-OFDM 64QAM	1	1	21.22	21.12	21.08
20	DFT-s-OFDM 256QAM	1	1	19.48	19.42	19.36



20	CP-OFDM QPSK	1	1	21.63	21.61	21.51
20	CP-OFDM 16QAM	1	1	20.69	20.66	20.59
20	CP-OFDM 64QAM	1	1	19.45	19.52	19.60
20	CP-OFDM 256QAM	1	1	17.52	17.47	17.33
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.66	22.72	22.56
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.51	22.69	22.46
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.53	22.66	22.65

2A_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	22.75	22.77	22.84
20		1	53	22.83	22.90	22.87
20		1	104	22.85	22.87	22.77
20		50	1	22.93	22.94	22.90
20		50	25	22.87	22.92	22.97
20		50	50	22.97	22.95	22.90
20		100	0	22.89	22.92	22.94
20	DFT-s-OFDM QPSK	1	1	22.87	22.99	22.82
20		1	53	22.84	22.92	22.85
20		1	104	22.91	22.87	22.73
20		50	1	22.60	22.68	22.62
20		50	25	22.65	22.66	22.54
20		50	50	22.52	22.57	22.59
20		100	0	22.66	22.72	22.56
20	DFT-s-OFDM 16QAM	1	1	22.91	22.83	22.93
20	DFT-s-OFDM 64QAM	1	1	21.38	21.23	21.33



20	DFT-s-OFDM 256QAM	1	1	19.35	19.47	19.57
20	CP-OFDM QPSK	1	1	21.64	21.65	21.74
20	CP-OFDM 16QAM	1	1	20.55	20.68	20.72
20	CP-OFDM 64QAM	1	1	19.71	19.78	19.86
20	CP-OFDM 256QAM	1	1	17.37	17.49	17.64
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.76	22.96	22.85
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.67	22.81	22.72
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.69	22.87	22.71

B48_n5						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.20	22.19	22.18
20		1	53	22.20	22.17	22.14
20		1	104	22.16	22.14	22.12
20		50	1	22.27	22.26	22.34
20		50	25	22.22	22.27	22.28
20		50	50	22.26	22.24	22.23
20		100	0	22.20	22.29	22.27
20	DFT-s-OFDM QPSK	1	1	22.25	22.37	22.33
20		1	53	22.25	22.13	22.13
20		1	104	22.20	22.08	22.06
20		50	1	22.17	22.23	22.18
20		50	25	22.11	22.15	22.15
20		50	50	22.16	22.10	22.17
20		100	0	22.11	22.19	22.16
20	DFT-s-OFDM 16QAM	1	1	22.32	22.28	22.27



20	DFT-s-OFDM 64QAM	1	1	20.78	20.65	20.61
20	DFT-s-OFDM 256QAM	1	1	18.78	18.98	18.96
20	CP-OFDM QPSK	1	1	21.31	21.44	21.20
20	CP-OFDM 16QAM	1	1	20.31	20.20	20.21
20	CP-OFDM 64QAM	1	1	19.35	19.20	19.22
20	CP-OFDM 256QAM	1	1	17.20	17.02	17.11
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.29	22.23	22.27
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.10	22.10	22.08
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.19	22.20	22.16

66A_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	22.51	22.52	22.60
20		1	53	22.62	22.67	22.63
20		1	104	22.54	22.65	22.59
20		50	1	22.65	22.70	22.63
20		50	25	22.67	22.76	22.71
20		50	50	22.70	22.69	22.65
20		100	0	22.62	22.73	22.69
20	DFT-s-OFDM QPSK	1	1	22.82	22.85	22.83
20		1	53	22.61	22.65	22.58
20		1	104	22.50	22.56	22.56
20		50	1	22.45	22.49	22.40
20		50	25	22.42	22.43	22.42
20		50	50	22.41	22.47	22.41
20		100	0	22.37	22.50	22.48



20	DFT-s-OFDM 16QAM	1	1	22.71	22.68	22.82
20	DFT-s-OFDM 64QAM	1	1	21.04	21.12	21.19
20	DFT-s-OFDM 256QAM	1	1	18.61	18.45	18.51
20	CP-OFDM QPSK	1	1	21.53	21.50	21.62
20	CP-OFDM 16QAM	1	1	20.55	20.42	20.36
20	CP-OFDM 64QAM	1	1	19.52	19.61	19.22
20	CP-OFDM 256QAM	1	1	17.40	17.37	17.48
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.61	22.72	22.81
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.57	22.51	22.66
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.59	22.68	22.57

2A_n66						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.68	22.72	22.75
40		1	108	22.68	22.75	22.60
40		1	214	22.74	22.63	22.59
40		108	1	22.61	22.62	22.63
40		108	54	22.74	22.67	22.66
40		108	108	22.77	22.65	22.77
40		216	0	22.76	22.69	22.76
40	DFT-s-OFDM QPSK	1	1	22.75	22.82	22.75
40		1	108	22.69	22.74	22.58
40		1	214	22.60	22.48	22.61
40		108	1	22.54	22.55	22.52
40		108	54	22.52	22.48	22.38
40		108	108	22.37	22.42	22.39



40		216	0	22.53	22.54	22.52
40	DFT-s-OFDM 16QAM	1	1	22.73	22.80	22.78
40	DFT-s-OFDM 64QAM	1	1	21.14	21.14	21.26
40	DFT-s-OFDM 256QAM	1	1	19.41	19.49	19.21
40	CP-OFDM QPSK	1	1	21.43	21.50	21.46
40	CP-OFDM 16QAM	1	1	20.62	20.55	20.68
40	CP-OFDM 64QAM	1	1	19.61	19.68	19.55
40	CP-OFDM 256QAM	1	1	17.42	17.48	17.42
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.60	22.67	22.64
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.77	22.74	22.62
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.75	22.72	22.58
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.18	22.58	22.46
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.69	22.68	22.50

5A_n66						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.64	22.76	22.77
40		1	108	22.64	22.73	22.60
40		1	214	22.74	22.59	22.60
40		108	1	22.79	22.72	22.74
40		108	54	22.76	22.71	22.64
40		108	108	22.76	22.79	22.76

40		216	0	22.69	22.71	22.68
40	DFT-s-OFDM QPSK	1	1	22.74	22.81	22.72
40		1	108	22.69	22.70	22.58
40		1	214	22.70	22.62	22.61
40		108	1	22.46	22.48	22.43
40		108	54	22.44	22.44	22.35
40		108	108	22.43	22.40	22.39
40		216	0	22.44	22.46	22.42
40	DFT-s-OFDM 16QAM	1	1	22.66	22.78	22.68
40	DFT-s-OFDM 64QAM	1	1	21.10	21.17	21.16
40	DFT-s-OFDM 256QAM	1	1	19.42	19.43	19.38
40	CP-OFDM QPSK	1	1	21.20	21.27	21.17
40	CP-OFDM 16QAM	1	1	20.58	20.64	20.56
40	CP-OFDM 64QAM	1	1	19.33	19.42	19.32
40	CP-OFDM 256QAM	1	1	17.42	17.48	17.40
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.69	22.61	22.67
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.73	22.21	22.06
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.70	22.41	22.25
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.68	22.54	22.56
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.70	22.66	22.57



13A_n66						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.67	22.71	22.77
40		1	108	22.67	22.75	22.60
40		1	214	22.63	22.61	22.59
40		108	1	22.79	22.73	22.75
40		108	54	22.76	22.82	22.71
40		108	108	22.81	22.77	22.64
40		216	0	22.77	22.76	22.63
40	DFT-s-OFDM QPSK	1	1	22.81	22.83	22.74
40		1	108	22.70	22.72	22.62
40		1	214	22.63	22.58	22.57
40		108	1	22.50	22.52	22.33
40		108	54	22.46	22.48	22.23
40		108	108	22.47	22.42	22.37
40		216	0	22.51	22.52	22.32
40	DFT-s-OFDM 16QAM	1	1	22.69	22.74	22.65
40	DFT-s-OFDM 64QAM	1	1	21.11	21.19	21.11
40	DFT-s-OFDM 256QAM	1	1	19.40	19.45	19.35
40	CP-OFDM QPSK	1	1	21.35	21.39	21.31
40	CP-OFDM 16QAM	1	1	20.70	20.75	20.64
40	CP-OFDM 64QAM	1	1	19.46	19.53	19.41
40	CP-OFDM 256QAM	1	1	17.41	17.50	17.38
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.68	22.72	22.64
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.22	22.75	22.58
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.41	22.71	22.59



Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.67	22.57	22.56
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.68	22.57	22.50

2A_n77(3450-3550MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					633334	
Frequency (MHz)					3500.01	
100	DFT-s-OFDM PI/2 BPSK	1	1		25.89	
100		1	136		25.92	
100		1	271		26.02	
100		135	1		25.69	
100		135	67		26.01	
100		135	136		25.34	
100		270	0		25.59	
100	DFT-s-OFDM QPSK	1	1		26.29	
100		1	136		25.90	
100		1	271		25.99	
100		135	1		26.08	
100		135	67		25.69	
100		135	136		25.85	
100		270	0		25.90	
100	DFT-s-OFDM 16QAM	1	1		25.68	
100	DFT-s-OFDM 64QAM	1	1		24.10	
100	DFT-s-OFDM 256QAM	1	1		21.76	
100	CP-OFDM QPSK	1	1		23.54	
100	CP-OFDM 16QAM	1	1		22.61	
100	CP-OFDM 64QAM	1	1		21.97	
100	CP-OFDM 256QAM	1	1		19.54	
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99



90	DFT-s-OFDM QPSK	1	1	26.09	26.19	26.14
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.11	26.19	26.06
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	26.13	26.16	26.01
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.00	26.20	26.11
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	26.04	26.21	26.12
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.79	26.08	26.16
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	25.89	26.15	25.97
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.97	26.23	25.95
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.98	26.11	25.99
Channel				630334	633334	636332
Frequency (MHz)				3455.01	3500.01	3544.98
10	DFT-s-OFDM QPSK	1	1	25.55	26.11	25.89



5A_n77(3450-3550MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					633334	
Frequency (MHz)					3500.01	
100	DFT-s-OFDM PI/2 BPSK	1	1		26.27	
100		1	136		25.98	
100		1	271		26.02	
100		135	1		25.63	
100		135	67		25.97	
100		135	136		25.29	
100		270	0		25.93	
100	DFT-s-OFDM QPSK	1	1		26.33	
100		1	136		25.96	
100		1	271		25.37	
100		135	1		25.95	
100		135	67		25.76	
100		135	136		25.20	
100		270	0		25.94	
100	DFT-s-OFDM 16QAM	1	1		25.43	
100	DFT-s-OFDM 64QAM	1	1		23.56	
100	DFT-s-OFDM 256QAM	1	1		21.81	
100	CP-OFDM QPSK	1	1		24.03	
100	CP-OFDM 16QAM	1	1		23.65	
100	CP-OFDM 64QAM	1	1		22.13	
100	CP-OFDM 256QAM	1	1		18.73	
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.85	25.83	25.76
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.92	25.82	25.71
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	25.95	25.78	25.63



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.02	25.81	25.77
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	26.10	25.82	25.86
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.11	26.20	25.81
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.12	26.14	25.59
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.12	26.15	25.56
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	26.09	26.13	25.61
Channel				630334	633334	636332
Frequency (MHz)				3455.01	3500.01	3544.98
10	DFT-s-OFDM QPSK	1	1	26.10	26.06	26.02

13A_n77(3450-3550MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					633334	
Frequency (MHz)					3500.01	
100	DFT-s-OFDM PI/2 BPSK	1	1		26.08	
100		1	136		25.82	
100		1	271		25.65	
100		135	1		25.74	
100		135	67		25.78	
100		135	136		25.66	
100		270	0		25.64	
100	DFT-s-OFDM QPSK	1	1		26.31	



100		1	136		25.80	
100		1	271		25.75	
100		135	1		25.85	
100		135	67		25.55	
100		135	136		25.61	
100		270	0		25.87	
100	DFT-s-OFDM 16QAM	1	1		25.21	
100	DFT-s-OFDM 64QAM	1	1		23.88	
100	DFT-s-OFDM 256QAM	1	1		21.55	
100	CP-OFDM QPSK	1	1		24.67	
100	CP-OFDM 16QAM	1	1		23.44	
100	CP-OFDM 64QAM	1	1		22.80	
100	CP-OFDM 256QAM	1	1		19.55	
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.86	26.11	25.70
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.89	26.09	25.67
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	25.91	26.10	25.58
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.03	25.80	25.71
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	26.09	25.82	25.85
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.11	26.00	25.79
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.12	25.93	25.68



Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.10	25.89	25.55
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	26.08	25.88	25.59
Channel				630334	633334	636332
Frequency (MHz)				3455.01	3500.01	3544.98
10	DFT-s-OFDM QPSK	1	1	26.03	25.69	25.48

66A_n77(3450-3550MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					633334	
Frequency (MHz)					3500.01	
100	DFT-s-OFDM PI/2 BPSK	1	1		25.96	
100		1	136		25.95	
100		1	271		24.80	
100		135	1		25.67	
100		135	67		26.02	
100		135	136		24.48	
100		270	0		25.63	
100	DFT-s-OFDM QPSK	1	1		26.22	
100		1	136		25.93	
100		1	271		25.98	
100		135	1		26.05	
100		135	67		25.96	
100		135	136		25.30	
100		270	0		25.87	
100	DFT-s-OFDM 16QAM	1	1		24.46	
100	DFT-s-OFDM 64QAM	1	1		23.55	
100	DFT-s-OFDM 256QAM	1	1		21.22	
100	CP-OFDM QPSK	1	1		24.56	
100	CP-OFDM 16QAM	1	1		23.12	
100	CP-OFDM 64QAM	1	1		22.16	



100	CP-OFDM 256QAM	1	1		19.20	
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.93	25.86	25.81
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.96	25.85	25.74
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	25.98	25.82	25.67
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.10	25.90	25.79
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	26.13	25.90	25.79
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.10	26.13	25.30
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.15	25.97	25.63
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.12	25.92	25.60
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	26.08	25.94	25.64
Channel				630334	633334	636332
Frequency (MHz)				3455.01	3500.01	3544.98
10	DFT-s-OFDM QPSK	1	1	25.98	26.07	25.55



2A_n77(3700-3980MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.83	25.96	26.20
100		1	136	26.02	26.10	26.04
100		1	271	25.94	25.79	26.01
100		135	1	24.63	25.60	25.80
100		135	67	26.03	25.60	26.04
100		135	136	25.47	25.66	25.82
100		270	0	25.56	25.80	25.25
100	DFT-s-OFDM QPSK	1	1	26.15	26.21	26.20
100		1	136	26.03	25.88	26.01
100		1	271	25.92	25.46	26.12
100		135	1	25.73	25.89	25.68
100		135	67	25.25	25.55	25.22
100		135	136	24.94	25.16	24.99
100		270	0	25.33	25.32	25.22
100	DFT-s-OFDM 16QAM	1	1	24.57	24.64	24.89
100	DFT-s-OFDM 64QAM	1	1	23.23	23.22	23.15
100	DFT-s-OFDM 256QAM	1	1	21.20	21.20	21.30
100	CP-OFDM QPSK	1	1	24.08	24.15	24.46
100	CP-OFDM 16QAM	1	1	23.51	23.60	23.50
100	CP-OFDM 64QAM	1	1	22.18	22.29	22.61
100	CP-OFDM 256QAM	1	1	19.20	19.05	19.35
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM QPSK	1	1	25.48	25.61	25.88
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	25.52	25.64	25.85
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM QPSK	1	1	25.57	25.62	25.77



Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	25.64	25.66	25.74
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.71	25.77	25.99
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.54	25.99	26.13
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	25.47	25.99	26.09
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	25.84	26.07	26.03
Channel				647168	656000	664832
Frequency (MHz)				3707.52	3840	3972.48
15	DFT-s-OFDM QPSK	1	1	25.83	26.13	26.04
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.61	25.88	26.10

5A_n77(3700-3980MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.81	25.90	26.20
100		1	136	25.99	26.20	26.00
100		1	271	25.55	25.56	25.99
100		135	1	25.76	25.57	25.78
100		135	67	26.01	25.80	26.03
100		135	136	25.64	25.51	25.76



100		270	0	25.54	25.80	25.22
100	DFT-s-OFDM QPSK	1	1	26.20	26.24	26.18
100		1	136	26.00	26.20	25.99
100		1	271	25.92	25.89	25.90
100		135	1	25.89	25.98	25.83
100		135	67	25.69	25.88	25.64
100		135	136	25.59	25.69	25.75
100		270	0	25.64	25.68	25.61
100	DFT-s-OFDM 16QAM	1	1	24.49	24.55	24.62
100	DFT-s-OFDM 64QAM	1	1	23.21	23.32	23.10
100	DFT-s-OFDM 256QAM	1	1	21.36	21.00	21.30
100	CP-OFDM QPSK	1	1	24.03	24.12	24.44
100	CP-OFDM 16QAM	1	1	23.61	23.74	24.08
100	CP-OFDM 64QAM	1	1	22.17	22.23	22.58
100	CP-OFDM 256QAM	1	1	19.21	19.01	19.31
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM QPSK	1	1	25.46	26.01	25.86
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	25.50	26.08	25.83
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM QPSK	1	1	25.52	26.05	25.82
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	25.62	26.03	25.76
Channel				648334	656000	663666



Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.69	25.76	26.11
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.96	25.95	26.10
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	25.80	25.96	26.02
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	25.82	26.07	26.11
Channel				647168	656000	664832
Frequency (MHz)				3707.52	3840	3972.48
15	DFT-s-OFDM QPSK	1	1	25.83	26.09	26.03
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.99	25.88	26.10

13A_n77(3700-3980MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.44	25.57	25.82
100		1	136	25.63	25.82	25.65
100		1	271	25.61	25.98	25.65
100		135	1	25.39	25.21	25.49
100		135	67	25.63	25.87	25.73
100		135	136	25.55	25.26	25.43
100		270	0	25.16	24.64	24.90



100	DFT-s-OFDM QPSK	1	1	26.15	26.20	26.19
100		1	136	25.87	25.83	25.65
100		1	271	25.55	25.13	25.76
100		135	1	25.88	25.89	25.76
100		135	67	25.62	25.72	25.65
100		135	136	25.25	25.52	25.61
100		270	0	25.76	25.88	25.87
100	DFT-s-OFDM 16QAM	1	1	24.46	24.55	24.88
100	DFT-s-OFDM 64QAM	1	1	23.18	23.24	23.53
100	DFT-s-OFDM 256QAM	1	1	21.22	21.19	21.33
100	CP-OFDM QPSK	1	1	24.00	24.12	24.44
100	CP-OFDM 16QAM	1	1	23.64	23.81	24.02
100	CP-OFDM 64QAM	1	1	22.16	22.21	22.57
100	CP-OFDM 256QAM	1	1	19.10	19.04	19.35
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM QPSK	1	1	25.82	26.02	25.84
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	25.79	26.05	25.79
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM QPSK	1	1	25.88	26.01	25.81
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	25.58	26.03	25.88
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99

50	DFT-s-OFDM QPSK	1	1	25.65	26.01	26.04
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.92	26.03	26.08
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	25.73	25.92	26.11
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	25.79	26.01	26.13
Channel				647168	656000	664832
Frequency (MHz)				3707.52	3840	3972.48
15	DFT-s-OFDM QPSK	1	1	25.81	26.05	26.07
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.54	25.85	26.11

66A_n77(3700-3980MHz)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.50	25.61	25.89
100		1	136	25.69	25.88	25.71
100		1	271	25.59	25.94	25.65
100		135	1	25.45	25.25	25.50
100		135	67	25.69	25.88	25.75
100		135	136	25.61	25.66	25.28
100		270	0	25.23	25.50	25.32
100	DFT-s-OFDM QPSK	1	1	26.17	26.20	26.18



100		1	136	25.66	25.85	25.69
100		1	271	25.58	25.92	25.79
100		135	1	25.76	25.88	25.71
100		135	67	25.66	25.75	25.73
100		135	136	25.59	25.57	25.68
100		270	0	25.73	25.95	25.78
100	DFT-s-OFDM 16QAM	1	1	24.48	24.64	24.89
100	DFT-s-OFDM 64QAM	1	1	23.37	23.31	23.58
100	DFT-s-OFDM 256QAM	1	1	21.33	21.48	21.34
100	CP-OFDM QPSK	1	1	24.07	24.16	24.46
100	CP-OFDM 16QAM	1	1	23.70	23.82	24.09
100	CP-OFDM 64QAM	1	1	22.19	22.31	22.62
100	CP-OFDM 256QAM	1	1	19.12	19.05	19.35
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM QPSK	1	1	25.47	25.60	25.89
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	25.51	25.66	25.85
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM QPSK	1	1	25.57	25.67	25.76
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	25.63	26.03	25.74
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.69	26.12	25.88



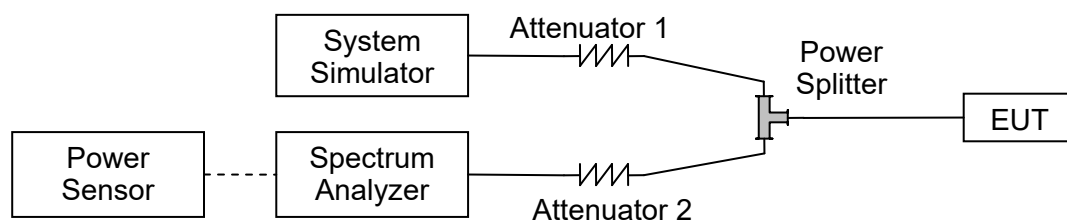
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.90	26.09	26.12
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	25.81	26.10	26.03
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	25.85	26.07	26.15
Channel				647168	656000	664832
Frequency (MHz)				3707.52	3840	3972.48
15	DFT-s-OFDM QPSK	1	1	25.85	26.13	26.20
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.61	25.91	26.10

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
5A_n2	15	5	370500	DFT-s-OFDM PI/2 BPSK	25/0	4.479	5.061	PASS
5A_n2	15	5	370500	DFT-s-OFDM QPSK	25/0	4.472	4.933	PASS
5A_n2	15	5	370500	DFT-s-OFDM 16QAM	25/0	4.503	5.007	PASS
5A_n2	15	5	370500	DFT-s-OFDM 64QAM	25/0	4.493	5.080	PASS
5A_n2	15	5	370500	DFT-s-OFDM 256QAM	25/0	4.484	5.019	PASS
5A_n2	15	5	370500	CP-OFDM QPSK	25/0	4.477	5.011	PASS
5A_n2	15	5	376000	DFT-s-OFDM PI/2 BPSK	25/0	4.487	5.096	PASS
5A_n2	15	5	376000	DFT-s-OFDM QPSK	25/0	4.471	4.920	PASS
5A_n2	15	5	376000	DFT-s-OFDM 16QAM	25/0	4.496	5.090	PASS
5A_n2	15	5	376000	DFT-s-OFDM 64QAM	25/0	4.501	5.062	PASS
5A_n2	15	5	376000	DFT-s-OFDM 256QAM	25/0	4.480	4.965	PASS
5A_n2	15	5	376000	CP-OFDM QPSK	25/0	4.482	5.073	PASS
5A_n2	15	5	381500	DFT-s-OFDM PI/2 BPSK	25/0	4.477	4.991	PASS
5A_n2	15	5	381500	DFT-s-OFDM QPSK	25/0	4.482	4.968	PASS
5A_n2	15	5	381500	DFT-s-OFDM 16QAM	25/0	4.469	4.979	PASS
5A_n2	15	5	381500	DFT-s-OFDM 64QAM	25/0	4.506	5.180	PASS
5A_n2	15	5	381500	DFT-s-OFDM 256QAM	25/0	4.482	4.966	PASS
5A_n2	15	5	381500	CP-OFDM QPSK	25/0	4.490	5.040	PASS
5A_n2	15	10	371000	DFT-s-OFDM PI/2 BPSK	50/0	8.927	9.622	PASS
5A_n2	15	10	371000	DFT-s-OFDM QPSK	50/0	8.928	9.600	PASS
5A_n2	15	10	371000	DFT-s-OFDM 16QAM	50/0	8.905	9.595	PASS
5A_n2	15	10	371000	DFT-s-OFDM 64QAM	50/0	8.920	9.615	PASS
5A_n2	15	10	371000	DFT-s-OFDM 256QAM	50/0	8.946	9.684	PASS



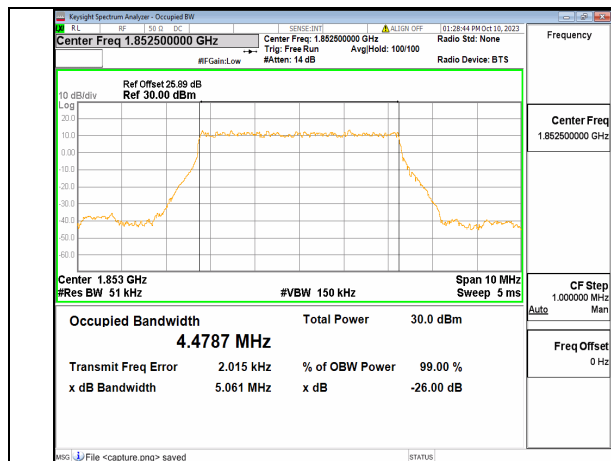
5A_n2	15	10	371000	CP-OFDM QPSK	52/0	9.299	10.062	PASS
5A_n2	15	10	376000	DFT-s-OFDM PI/2 BPSK	50/0	8.915	9.624	PASS
5A_n2	15	10	376000	DFT-s-OFDM QPSK	50/0	8.919	9.663	PASS
5A_n2	15	10	376000	DFT-s-OFDM 16QAM	50/0	8.903	9.630	PASS
5A_n2	15	10	376000	DFT-s-OFDM 64QAM	50/0	8.899	9.517	PASS
5A_n2	15	10	376000	DFT-s-OFDM 256QAM	50/0	8.938	9.638	PASS
5A_n2	15	10	376000	CP-OFDM QPSK	52/0	9.299	10.053	PASS
5A_n2	15	10	381000	DFT-s-OFDM PI/2 BPSK	50/0	8.897	9.523	PASS
5A_n2	15	10	381000	DFT-s-OFDM QPSK	50/0	8.907	9.524	PASS
5A_n2	15	10	381000	DFT-s-OFDM 16QAM	50/0	8.885	9.607	PASS
5A_n2	15	10	381000	DFT-s-OFDM 64QAM	50/0	8.889	9.496	PASS
5A_n2	15	10	381000	DFT-s-OFDM 256QAM	50/0	8.913	9.573	PASS
5A_n2	15	10	381000	CP-OFDM QPSK	52/0	9.275	10.010	PASS
5A_n2	15	15	371500	DFT-s-OFDM PI/2 BPSK	75/0	13.411	14.303	PASS
5A_n2	15	15	371500	DFT-s-OFDM QPSK	75/0	13.392	14.204	PASS
5A_n2	15	15	371500	DFT-s-OFDM 16QAM	75/0	13.426	14.323	PASS
5A_n2	15	15	371500	DFT-s-OFDM 64QAM	75/0	13.420	14.369	PASS
5A_n2	15	15	371500	DFT-s-OFDM 256QAM	75/0	13.449	14.408	PASS
5A_n2	15	15	371500	CP-OFDM QPSK	79/0	14.099	14.972	PASS
5A_n2	15	15	376000	DFT-s-OFDM PI/2 BPSK	75/0	13.389	14.185	PASS
5A_n2	15	15	376000	DFT-s-OFDM QPSK	75/0	13.363	14.278	PASS
5A_n2	15	15	376000	DFT-s-OFDM 16QAM	75/0	13.420	14.207	PASS
5A_n2	15	15	376000	DFT-s-OFDM 64QAM	75/0	13.393	14.350	PASS
5A_n2	15	15	376000	DFT-s-OFDM 256QAM	75/0	13.396	14.216	PASS



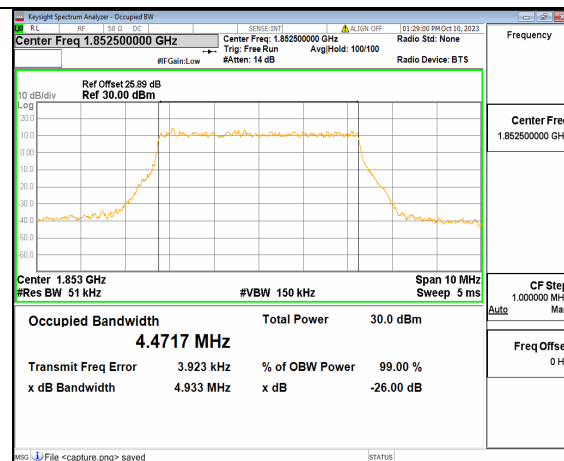
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5A_n2	15	15	380500	DFT-s-OFDM QPSK	75/0	13.338	14.237	PASS
5A_n2	15	15	380500	DFT-s-OFDM 16QAM	75/0	13.361	14.158	PASS
5A_n2	15	15	380500	DFT-s-OFDM 64QAM	75/0	13.359	14.245	PASS
5A_n2	15	15	380500	DFT-s-OFDM 256QAM	75/0	13.396	14.343	PASS
5A_n2	15	15	380500	CP-OFDM QPSK	79/0	14.026	14.869	PASS
5A_n2	15	20	372000	DFT-s-OFDM PI/2 BPSK	100/0	17.885	18.840	PASS
5A_n2	15	20	372000	DFT-s-OFDM QPSK	100/0	17.894	18.965	PASS
5A_n2	15	20	372000	DFT-s-OFDM 16QAM	100/0	17.881	18.839	PASS
5A_n2	15	20	372000	DFT-s-OFDM 64QAM	100/0	17.877	18.862	PASS
5A_n2	15	20	372000	DFT-s-OFDM 256QAM	100/0	17.863	18.848	PASS
5A_n2	15	20	372000	CP-OFDM QPSK	106/0	18.944	20.007	PASS
5A_n2	15	20	376000	DFT-s-OFDM PI/2 BPSK	100/0	17.797	18.711	PASS
5A_n2	15	20	376000	DFT-s-OFDM QPSK	100/0	17.823	18.832	PASS
5A_n2	15	20	376000	DFT-s-OFDM 16QAM	100/0	17.795	18.793	PASS
5A_n2	15	20	376000	DFT-s-OFDM 64QAM	100/0	17.783	18.762	PASS
5A_n2	15	20	376000	DFT-s-OFDM 256QAM	100/0	17.782	18.741	PASS
5A_n2	15	20	376000	CP-OFDM QPSK	106/0	18.863	19.978	PASS
5A_n2	15	20	380000	DFT-s-OFDM PI/2 BPSK	100/0	17.804	18.703	PASS
5A_n2	15	20	380000	DFT-s-OFDM QPSK	100/0	17.829	18.770	PASS
5A_n2	15	20	380000	DFT-s-OFDM 16QAM	100/0	17.806	18.767	PASS
5A_n2	15	20	380000	DFT-s-OFDM 64QAM	100/0	17.785	18.722	PASS
5A_n2	15	20	380000	DFT-s-OFDM 256QAM	100/0	17.776	18.657	PASS



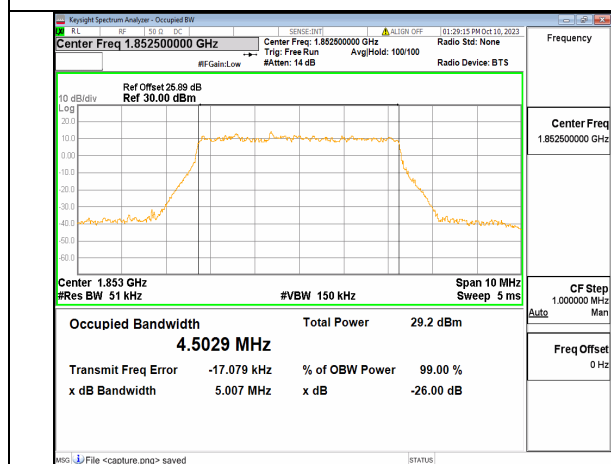
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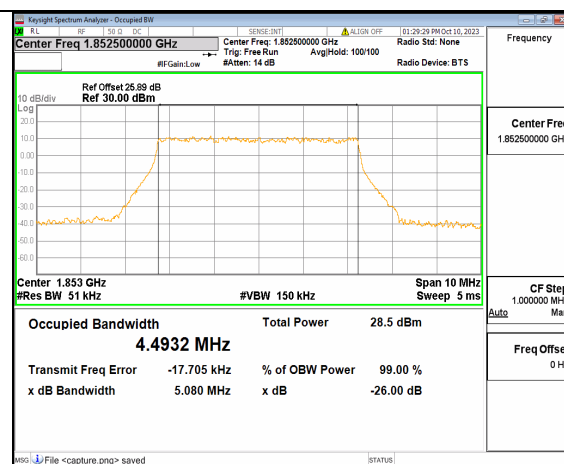
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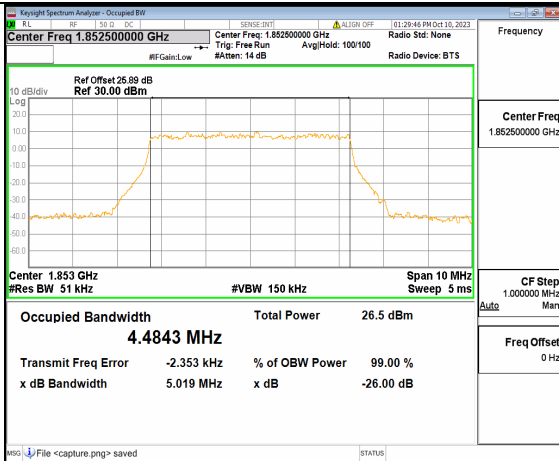
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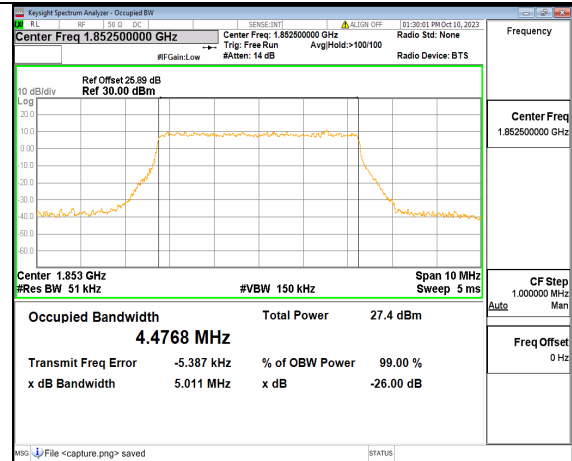
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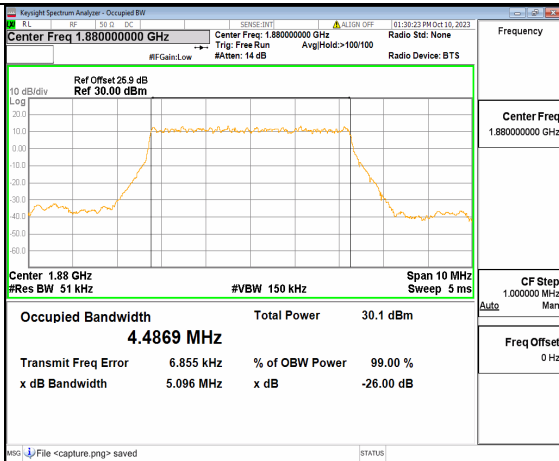
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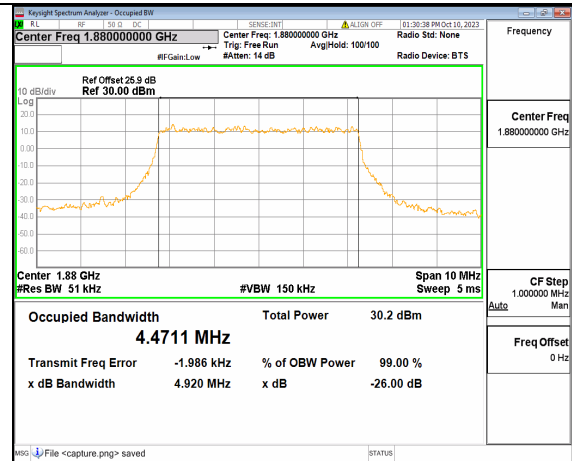
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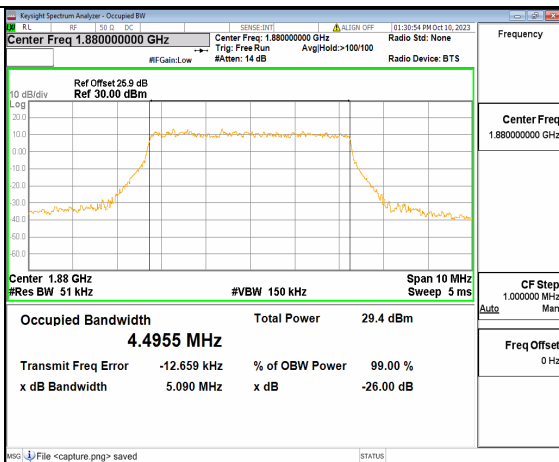
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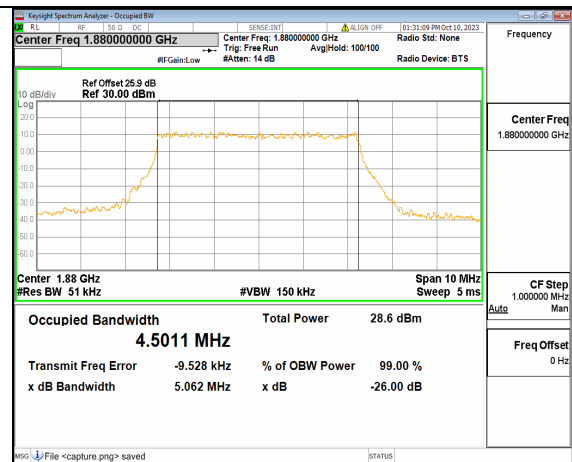
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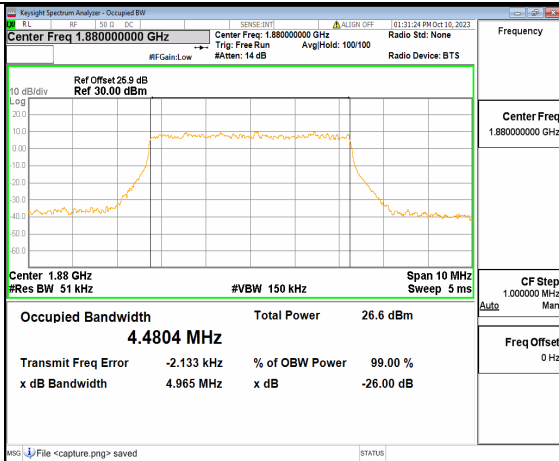
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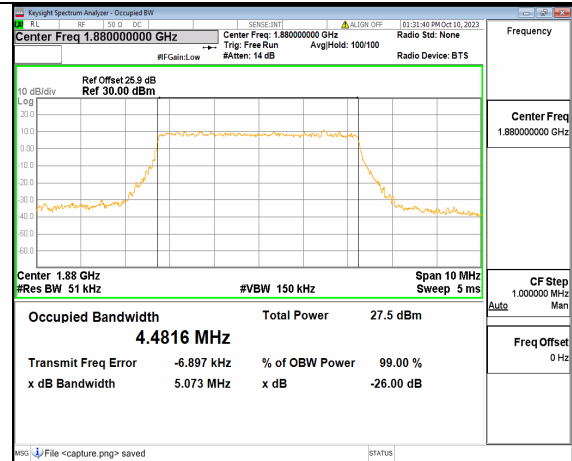
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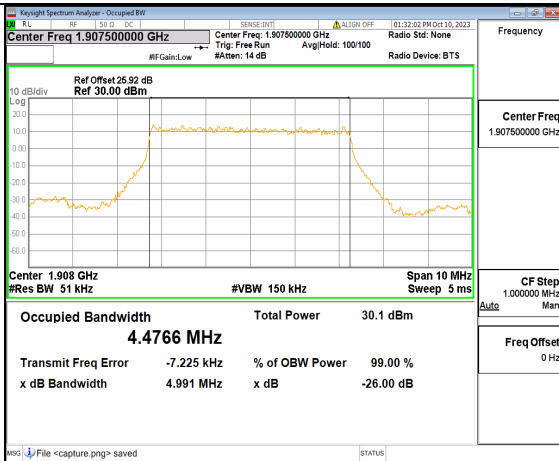
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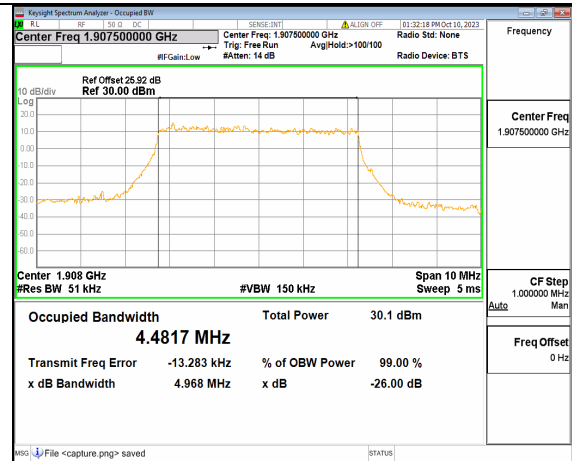
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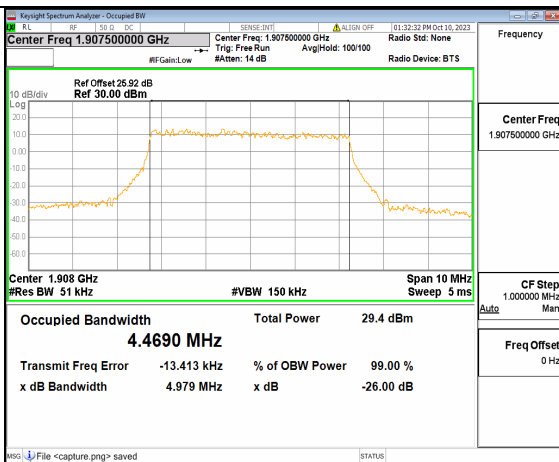
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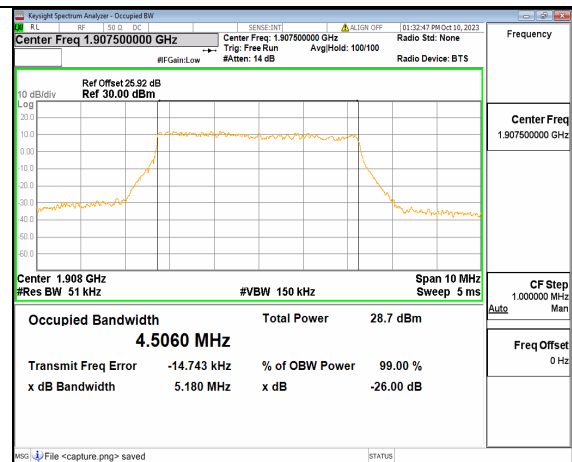
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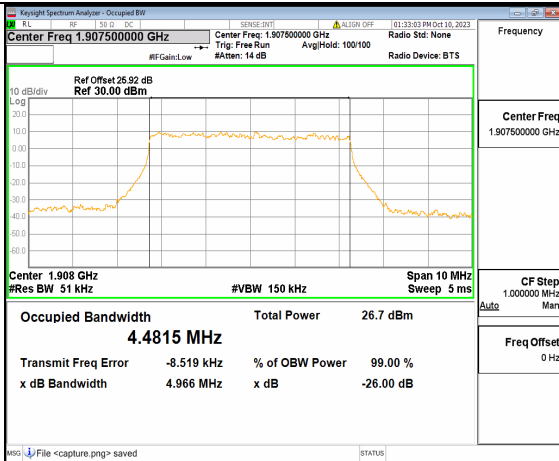
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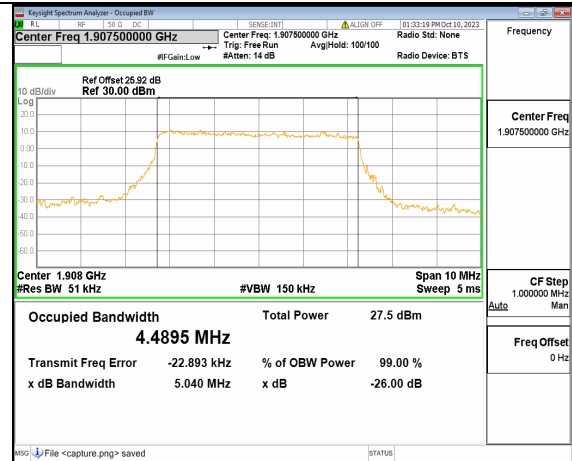
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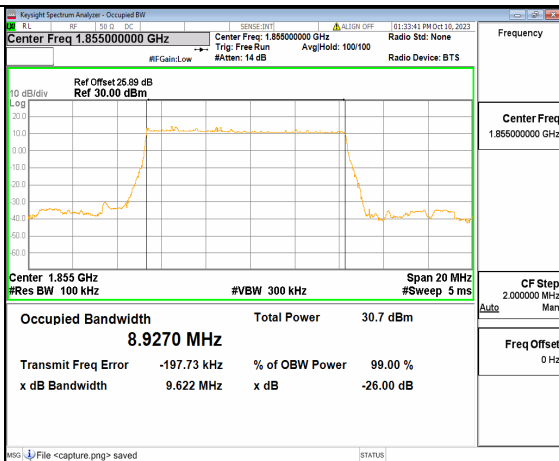
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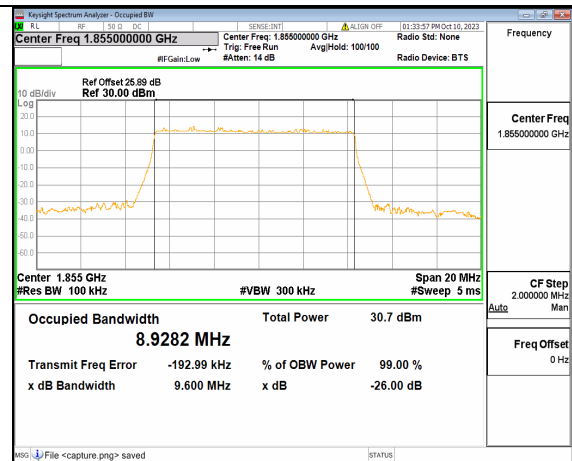
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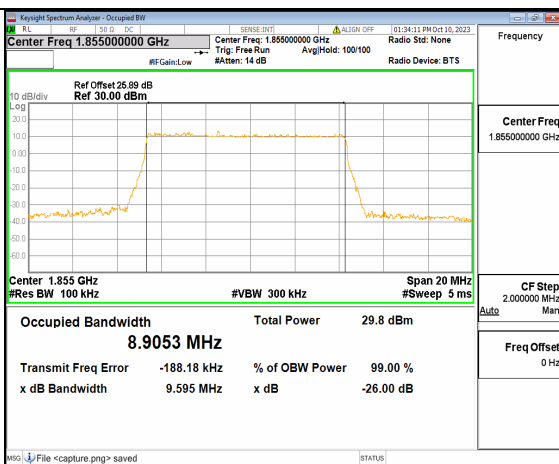
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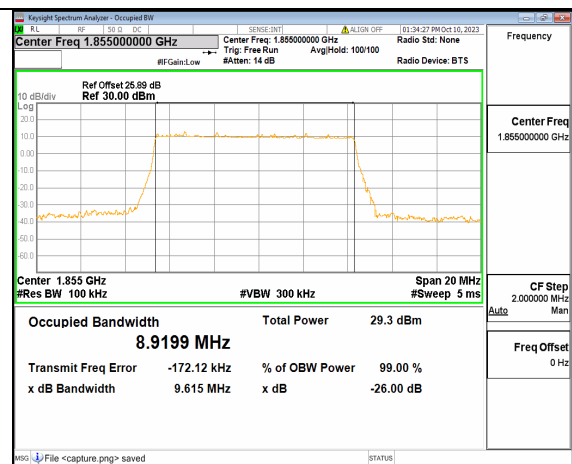
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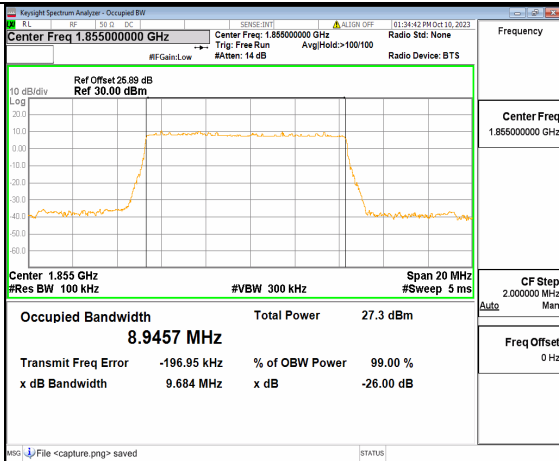
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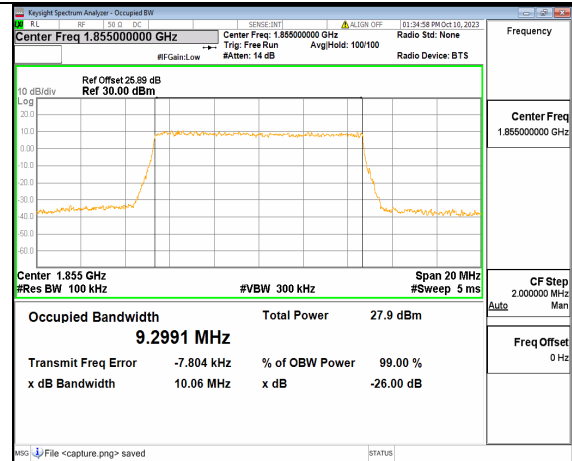
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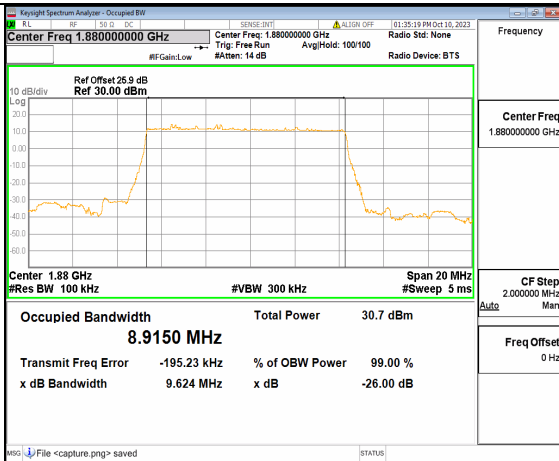
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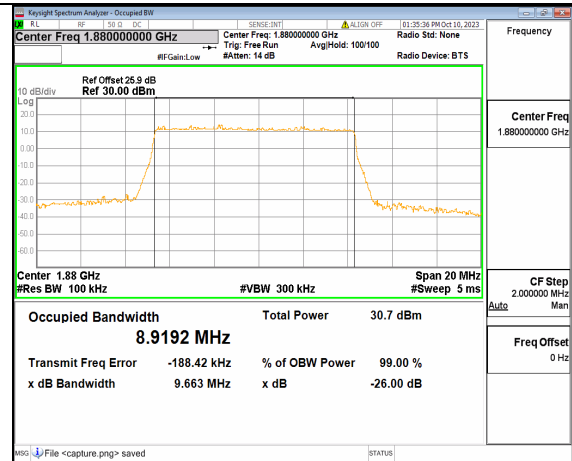
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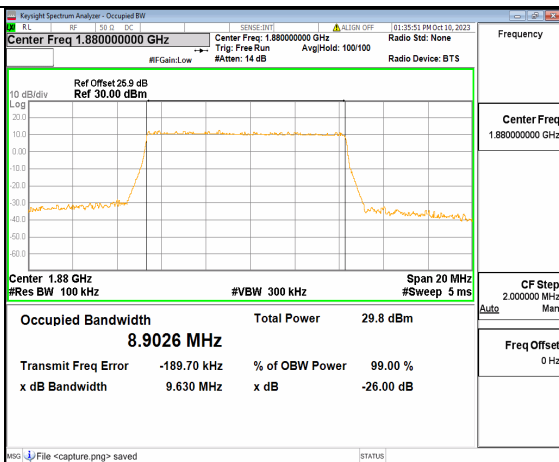
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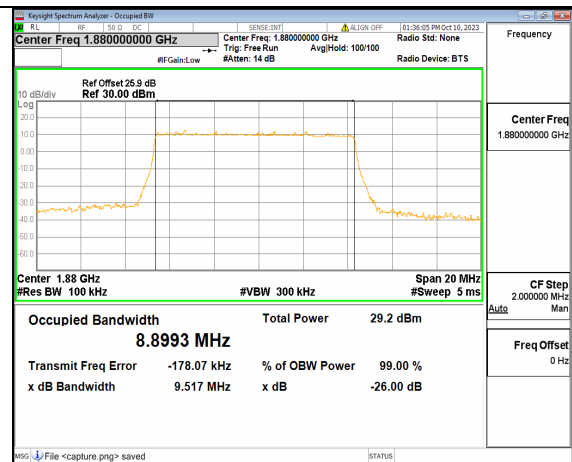
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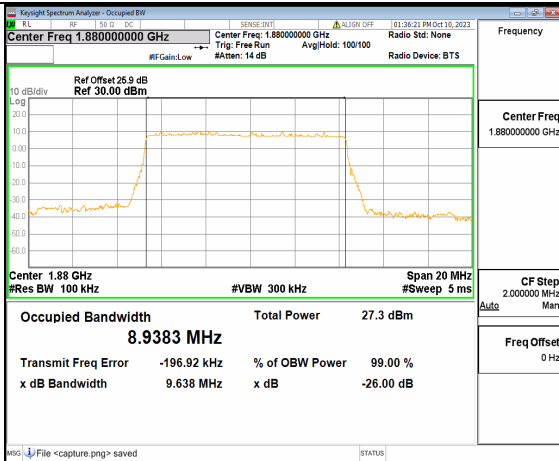
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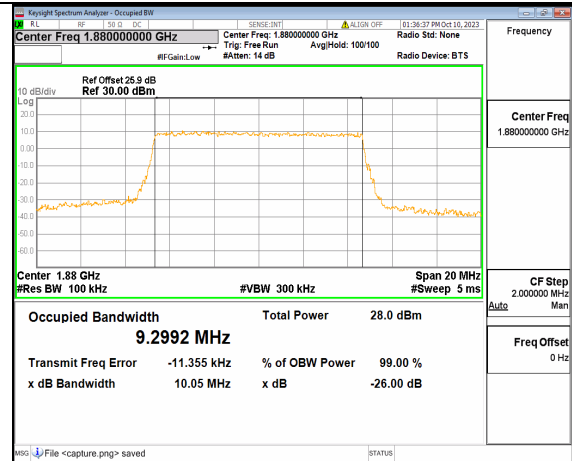
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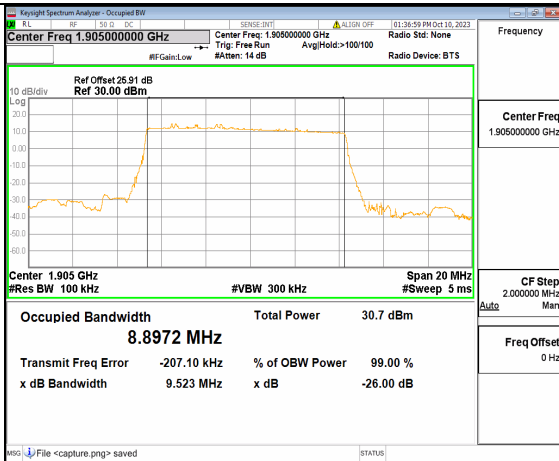
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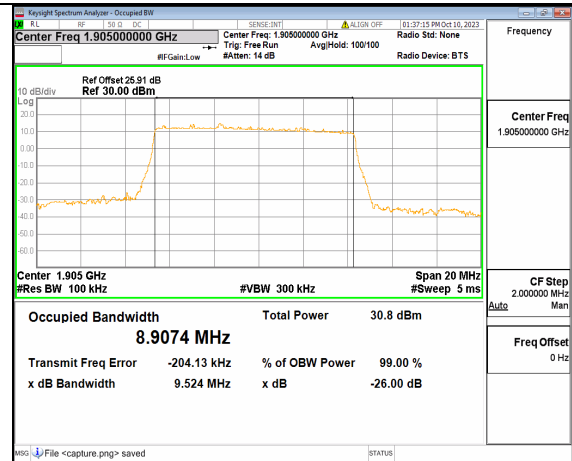
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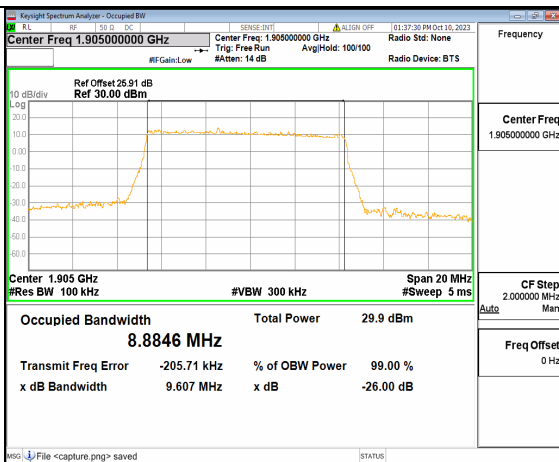
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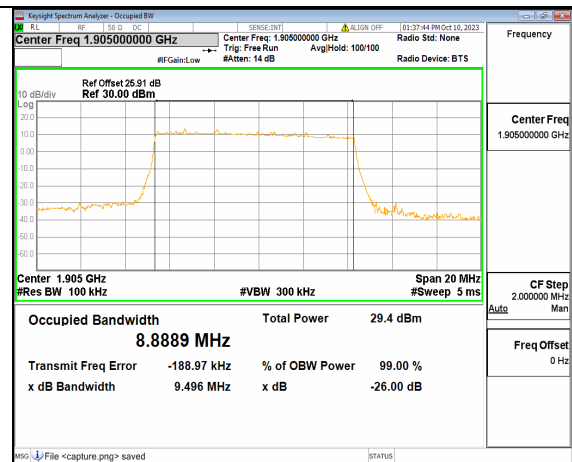
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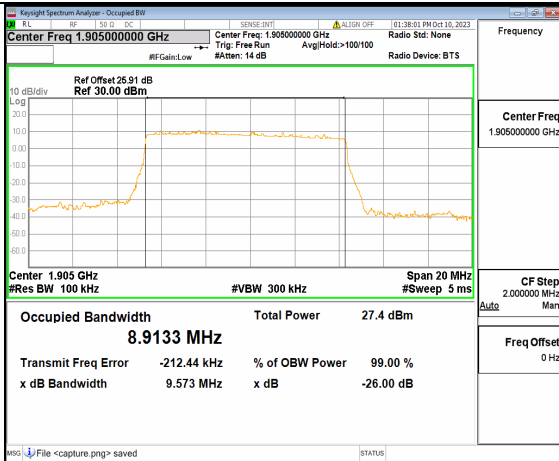
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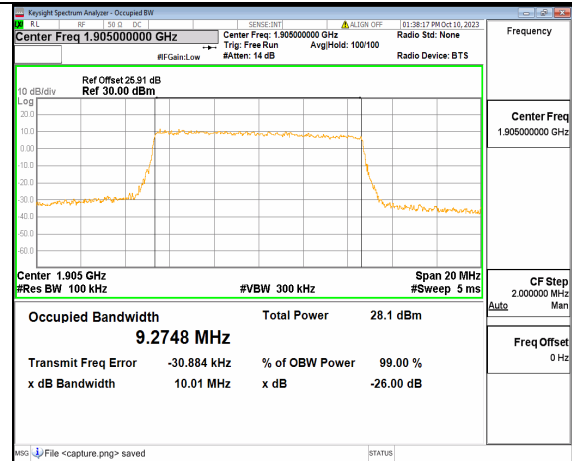
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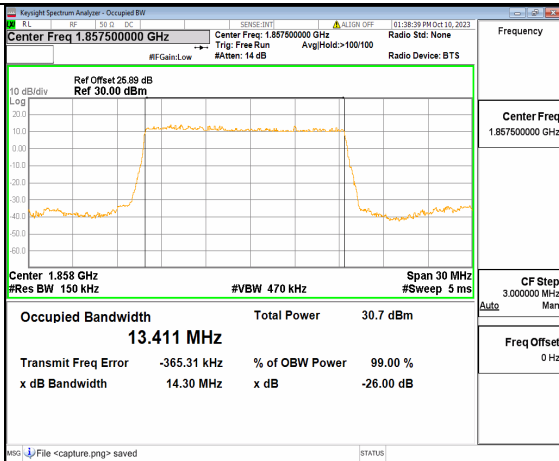
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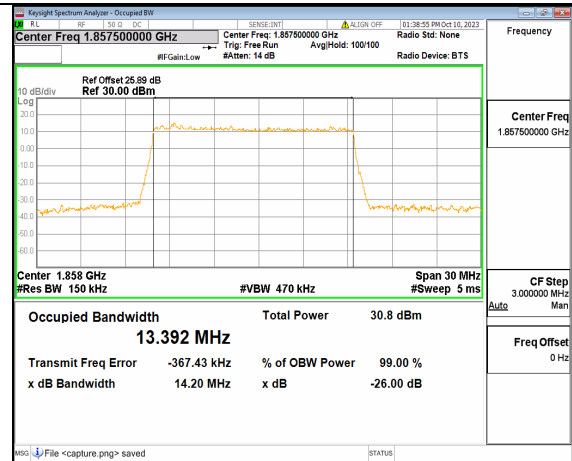
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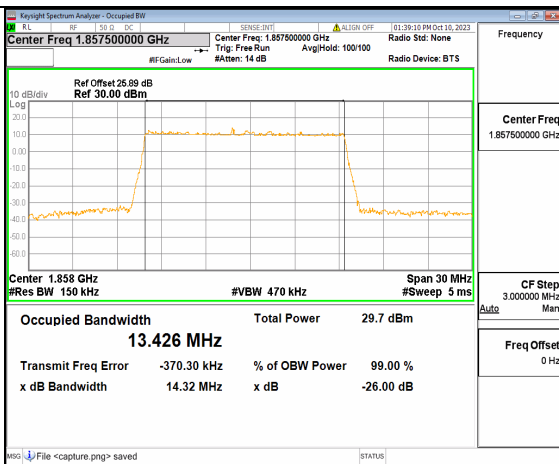
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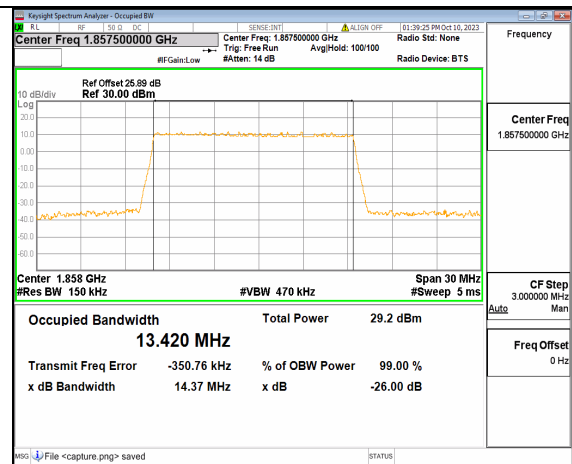
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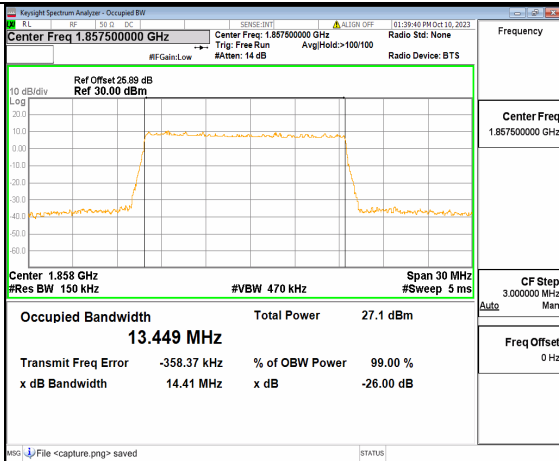
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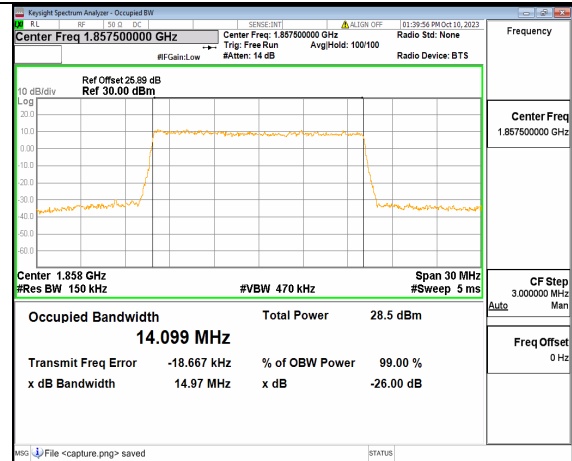
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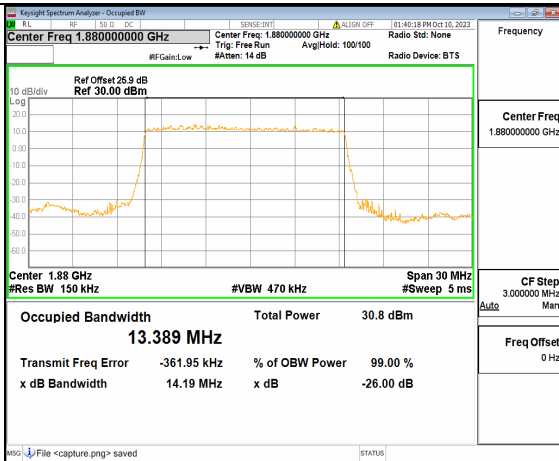
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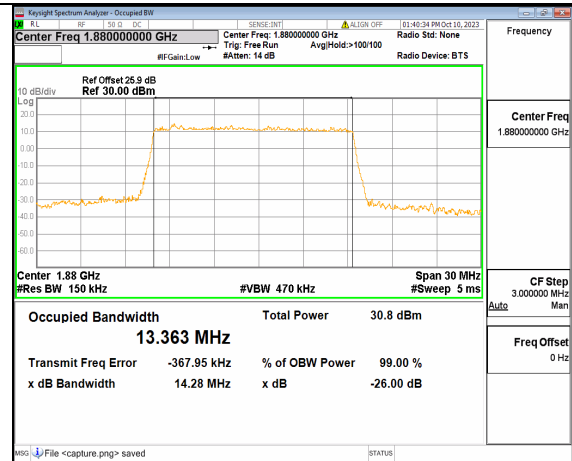
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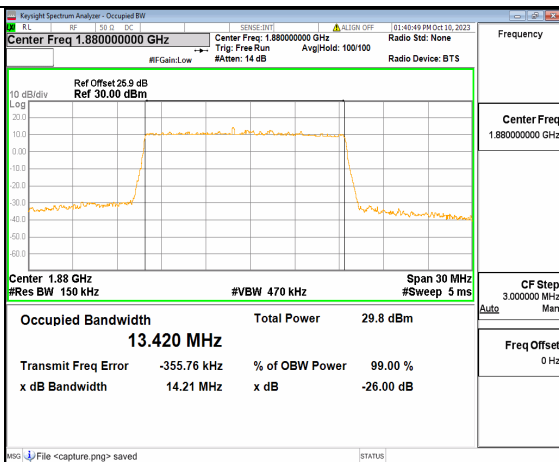
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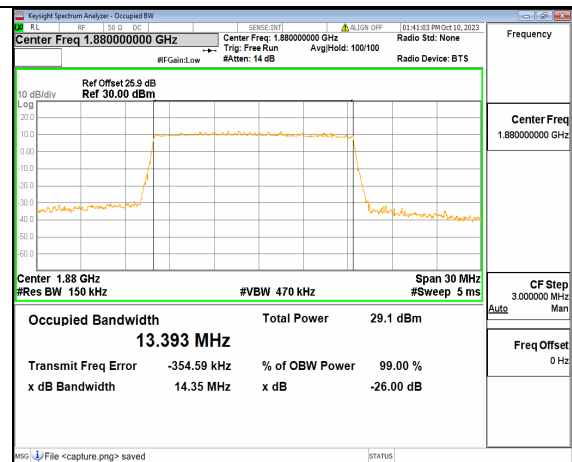
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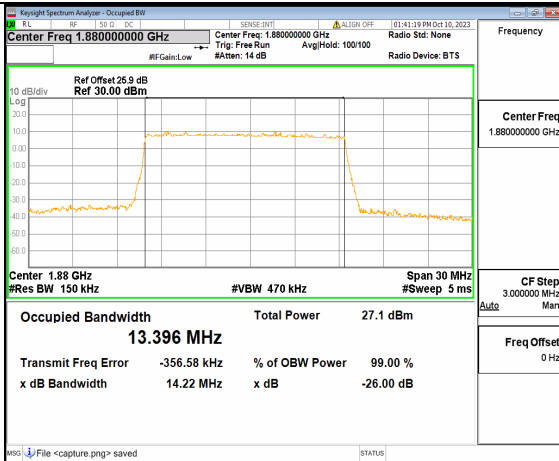
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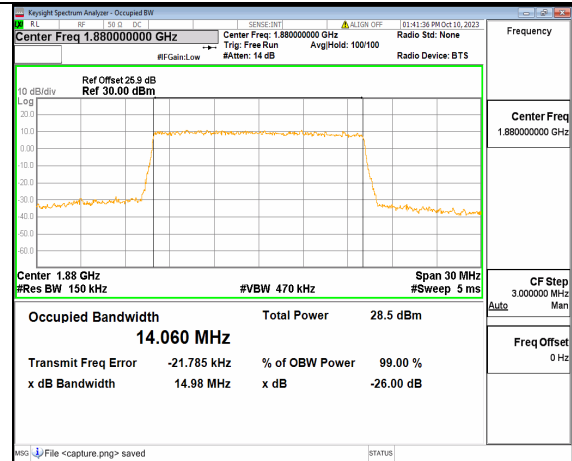
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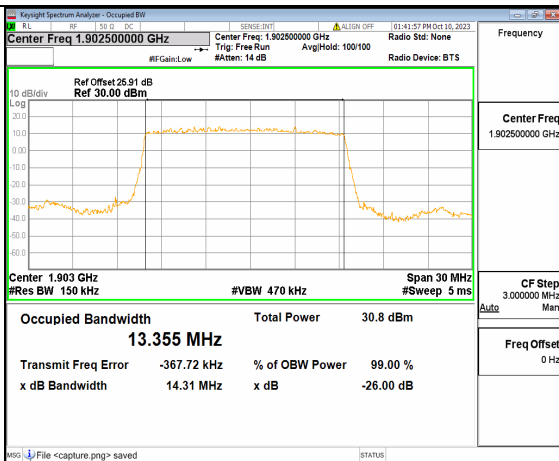
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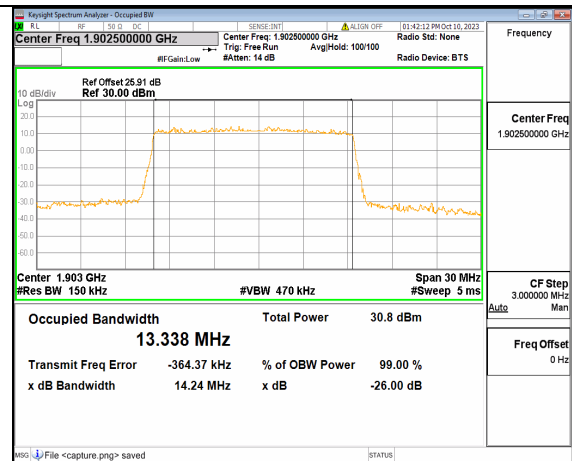
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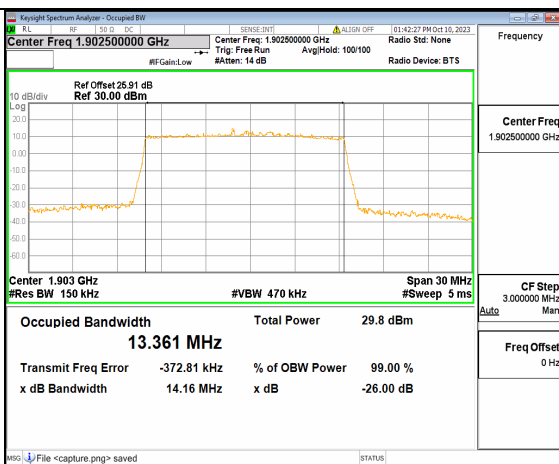
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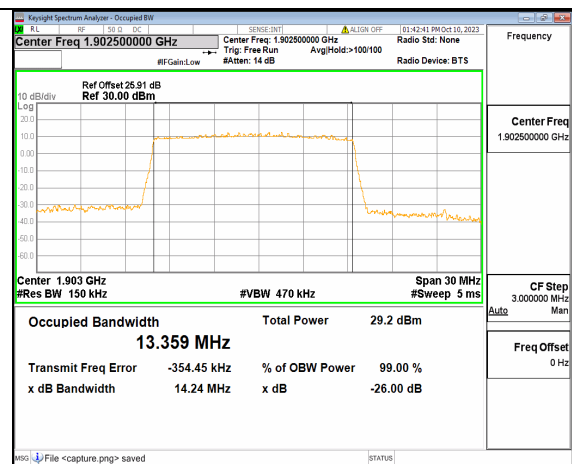
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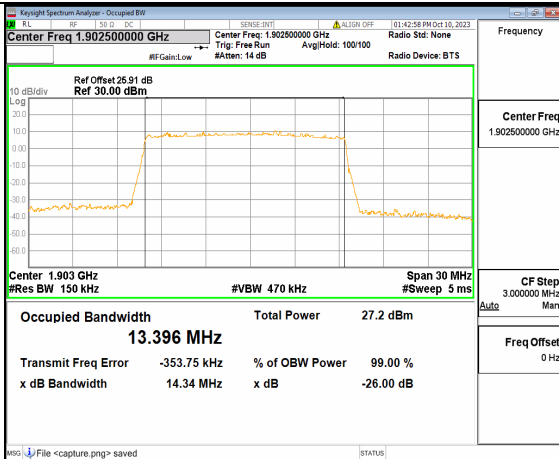
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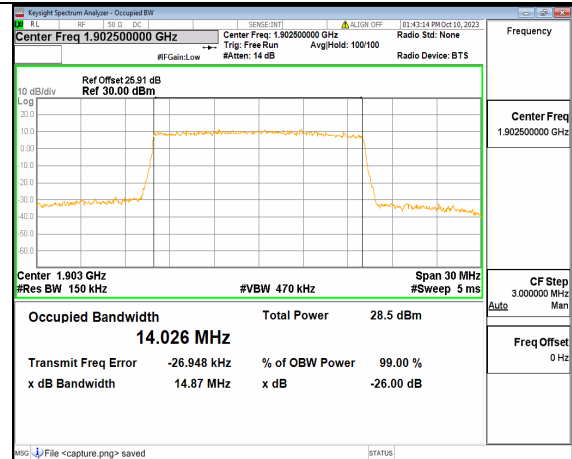
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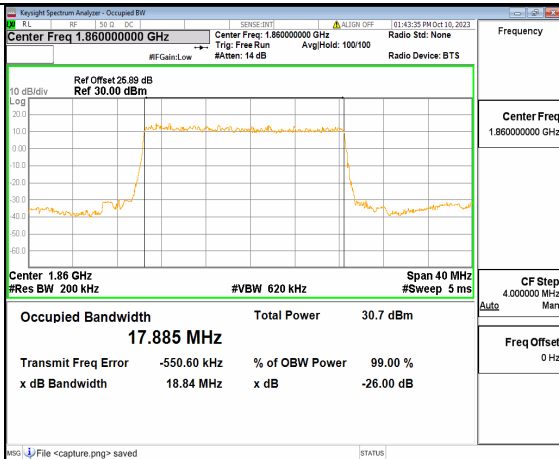
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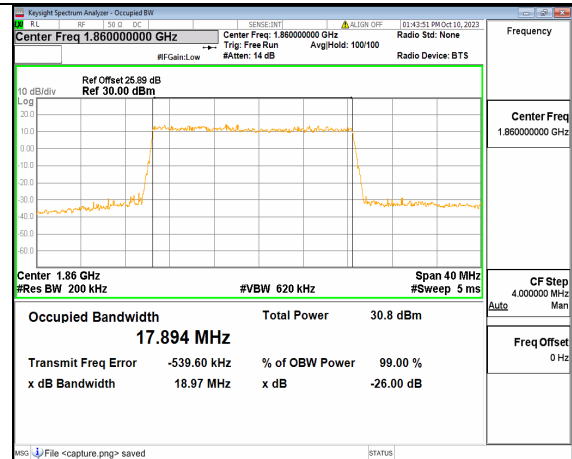
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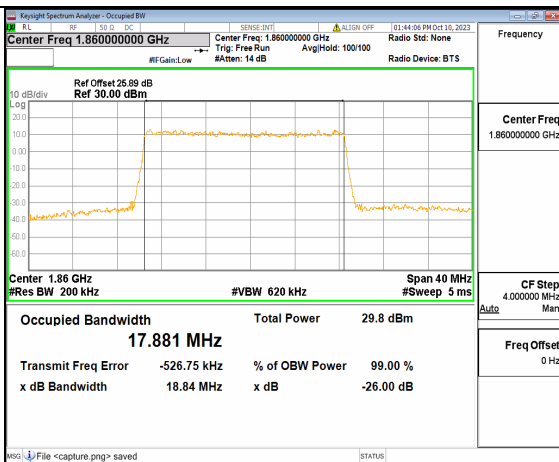
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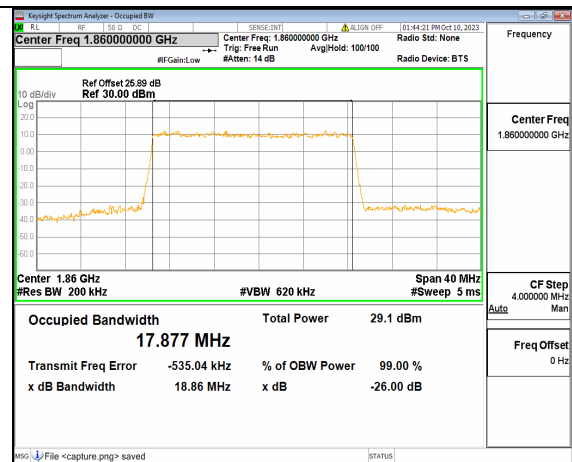
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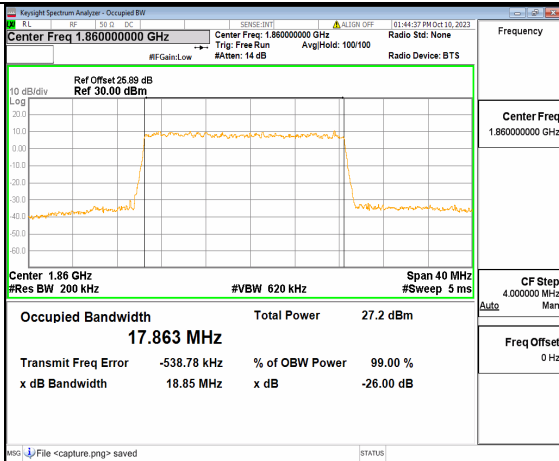
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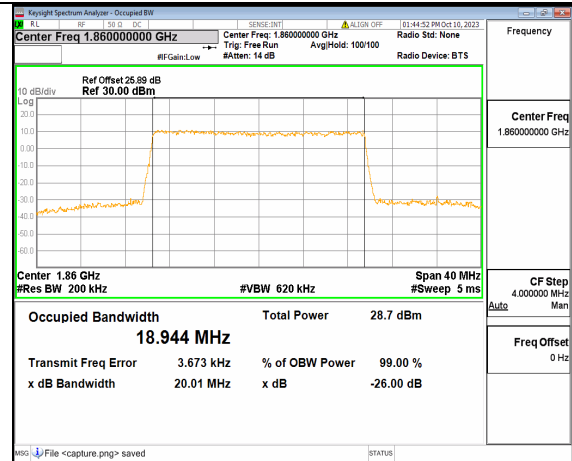
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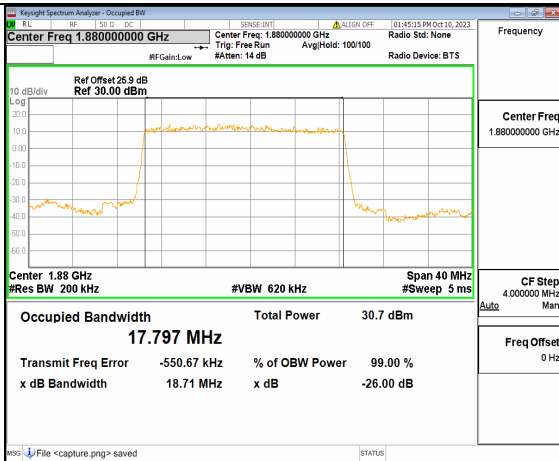
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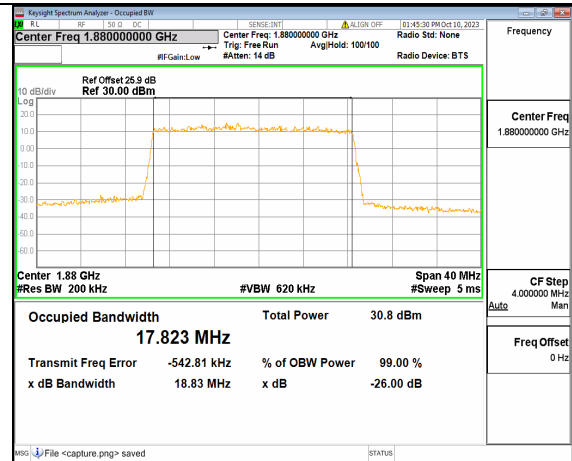
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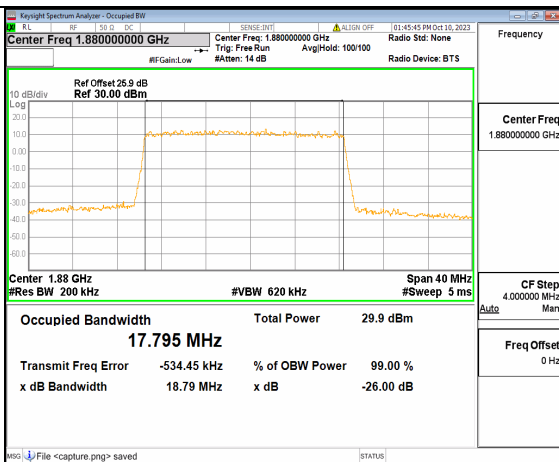
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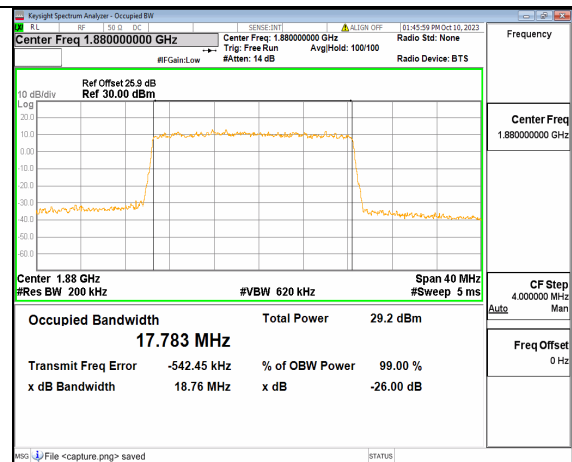
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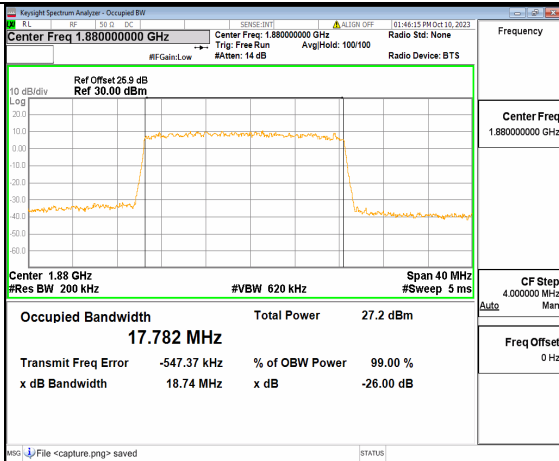
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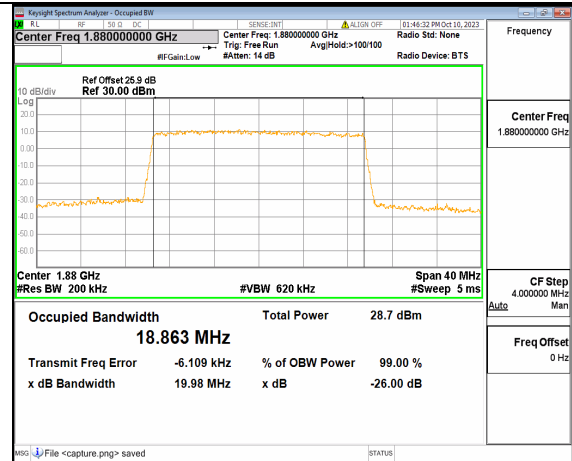
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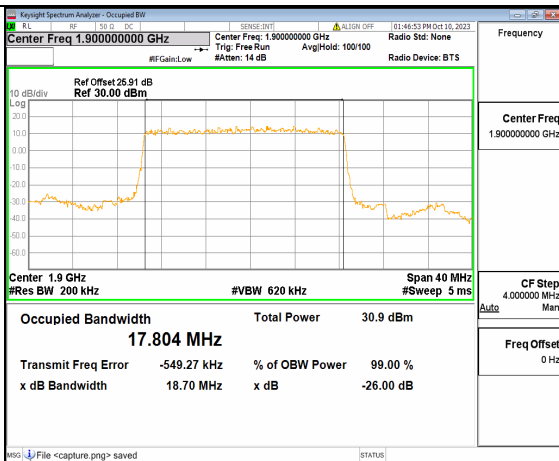
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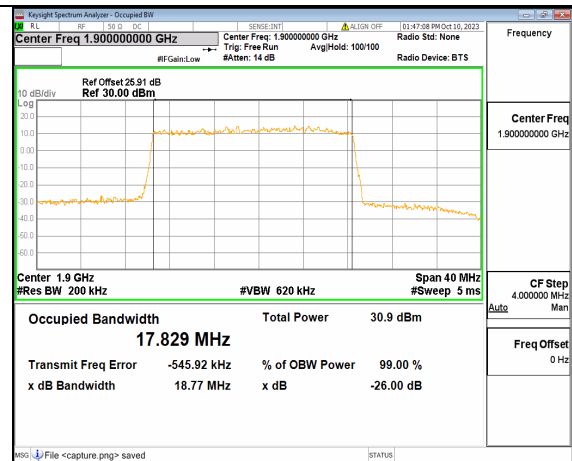
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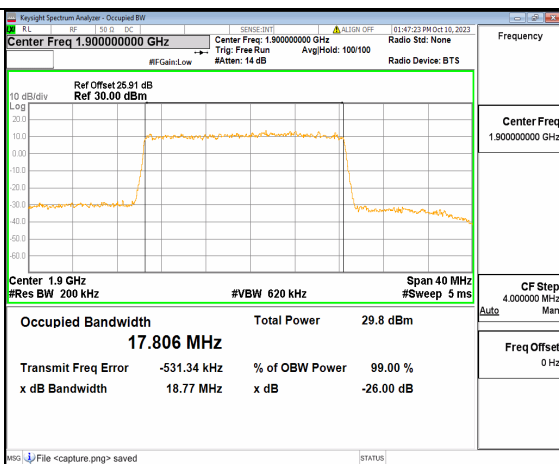
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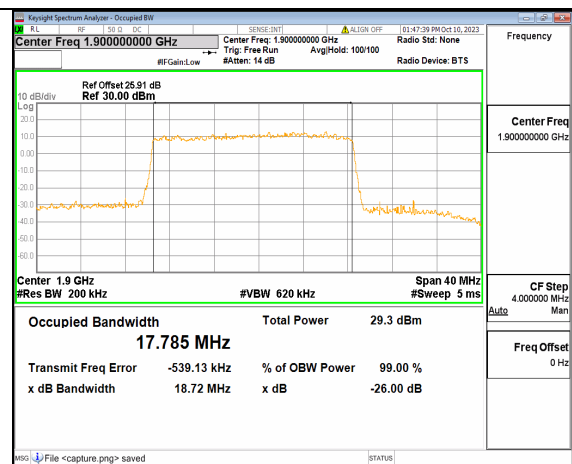
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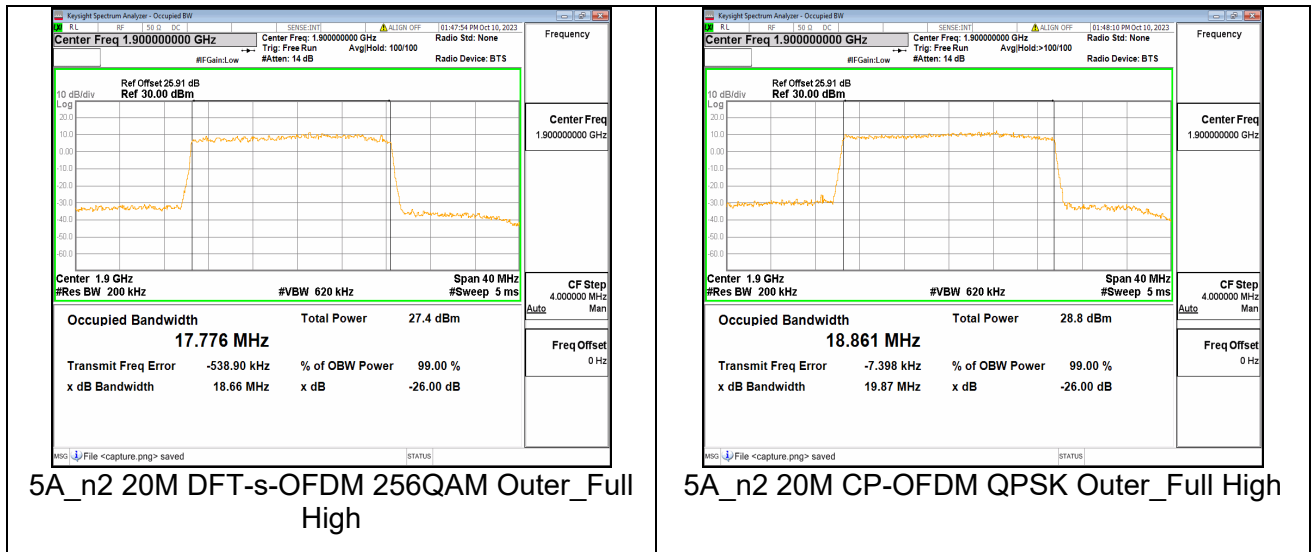
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5A_n2 20M DFT-s-OFDM 16QAM Outer_Full High



5A_n2 20M DFT-s-OFDM 64QAM Outer_Full High



Band	SCS (KHz)	BW (MHz)	ARFCN	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
2A_n5	15	5	165300	DFT-s-OFDM PI/2 BPSK	25/0	4.484	5.026	PASS
2A_n5	15	5	165300	DFT-s-OFDM QPSK	25/0	4.471	5.015	PASS
2A_n5	15	5	165300	DFT-s-OFDM 16QAM	25/0	4.474	5.024	PASS
2A_n5	15	5	165300	DFT-s-OFDM 64QAM	25/0	4.518	5.154	PASS
2A_n5	15	5	165300	DFT-s-OFDM 256QAM	25/0	4.481	4.954	PASS
2A_n5	15	5	165300	CP-OFDM QPSK	25/0	4.486	5.118	PASS
2A_n5	15	5	167300	DFT-s-OFDM PI/2 BPSK	25/0	4.485	5.103	PASS
2A_n5	15	5	167300	DFT-s-OFDM QPSK	25/0	4.475	4.885	PASS
2A_n5	15	5	167300	DFT-s-OFDM 16QAM	25/0	4.489	5.102	PASS
2A_n5	15	5	167300	DFT-s-OFDM 64QAM	25/0	4.493	5.083	PASS
2A_n5	15	5	167300	DFT-s-OFDM 256QAM	25/0	4.485	4.981	PASS
2A_n5	15	5	167300	CP-OFDM QPSK	25/0	4.473	5.031	PASS
2A_n5	15	5	169300	DFT-s-OFDM PI/2 BPSK	25/0	4.477	5.007	PASS
2A_n5	15	5	169300	DFT-s-OFDM QPSK	25/0	4.483	5.000	PASS



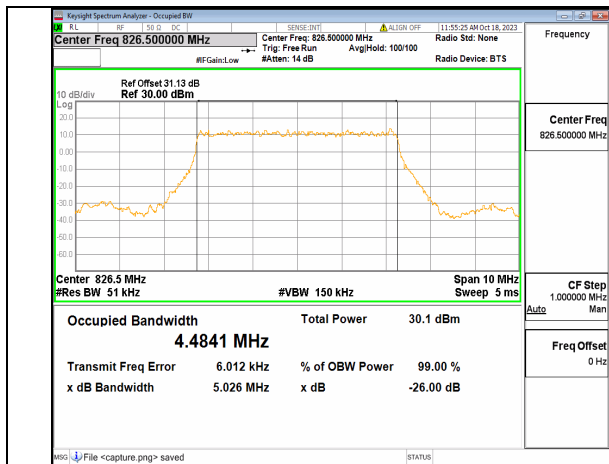
2A_n5	15	5	169300	DFT-s-OFDM 16QAM	25/0	4.470	4.972	PASS
2A_n5	15	5	169300	DFT-s-OFDM 64QAM	25/0	4.516	5.109	PASS
2A_n5	15	5	169300	DFT-s-OFDM 256QAM	25/0	4.484	4.987	PASS
2A_n5	15	5	169300	CP-OFDM QPSK	25/0	4.485	5.158	PASS
2A_n5	15	10	165800	DFT-s-OFDM PI/2 BPSK	50/0	8.923	9.613	PASS
2A_n5	15	10	165800	DFT-s-OFDM QPSK	50/0	8.933	9.642	PASS
2A_n5	15	10	165800	DFT-s-OFDM 16QAM	50/0	8.906	9.737	PASS
2A_n5	15	10	165800	DFT-s-OFDM 64QAM	50/0	8.932	9.643	PASS
2A_n5	15	10	165800	DFT-s-OFDM 256QAM	50/0	8.943	9.625	PASS
2A_n5	15	10	165800	CP-OFDM QPSK	52/0	9.287	10.110	PASS
2A_n5	15	10	167300	DFT-s-OFDM PI/2 BPSK	50/0	8.902	9.571	PASS
2A_n5	15	10	167300	DFT-s-OFDM QPSK	50/0	8.912	9.631	PASS
2A_n5	15	10	167300	DFT-s-OFDM 16QAM	50/0	8.891	9.618	PASS
2A_n5	15	10	167300	DFT-s-OFDM 64QAM	50/0	8.917	9.619	PASS
2A_n5	15	10	167300	DFT-s-OFDM 256QAM	50/0	8.922	9.544	PASS
2A_n5	15	10	167300	CP-OFDM QPSK	52/0	9.286	10.079	PASS
2A_n5	15	10	168800	DFT-s-OFDM PI/2 BPSK	50/0	8.917	9.593	PASS
2A_n5	15	10	168800	DFT-s-OFDM QPSK	50/0	8.924	9.627	PASS
2A_n5	15	10	168800	DFT-s-OFDM 16QAM	50/0	8.903	9.579	PASS
2A_n5	15	10	168800	DFT-s-OFDM 64QAM	50/0	8.926	9.566	PASS
2A_n5	15	10	168800	DFT-s-OFDM 256QAM	50/0	8.929	9.592	PASS
2A_n5	15	10	168800	CP-OFDM QPSK	52/0	9.310	9.975	PASS
2A_n5	15	15	166300	DFT-s-OFDM PI/2 BPSK	75/0	13.408	14.303	PASS
2A_n5	15	15	166300	DFT-s-OFDM QPSK	75/0	13.396	14.336	PASS



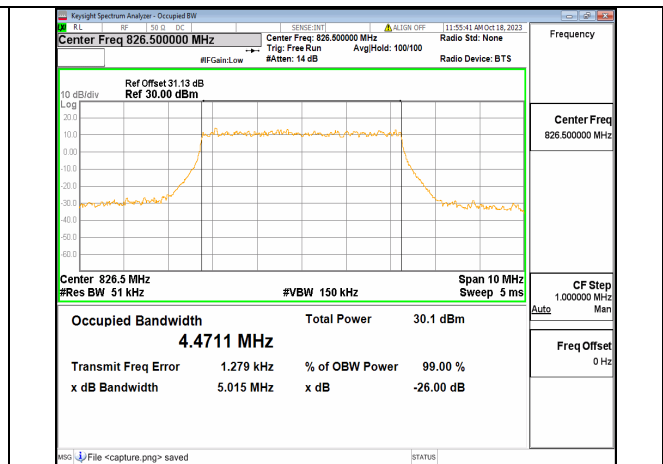
2A_n5	15	15	166300	DFT-s-OFDM 16QAM	75/0	13.426	14.273	PASS
2A_n5	15	15	166300	DFT-s-OFDM 64QAM	75/0	13.410	14.325	PASS
2A_n5	15	15	166300	DFT-s-OFDM 256QAM	75/0	13.437	14.347	PASS
2A_n5	15	15	166300	CP-OFDM QPSK	79/0	14.082	14.936	PASS
2A_n5	15	15	167300	DFT-s-OFDM PI/2 BPSK	75/0	13.375	14.281	PASS
2A_n5	15	15	167300	DFT-s-OFDM QPSK	75/0	13.379	14.359	PASS
2A_n5	15	15	167300	DFT-s-OFDM 16QAM	75/0	13.407	14.218	PASS
2A_n5	15	15	167300	DFT-s-OFDM 64QAM	75/0	13.386	14.292	PASS
2A_n5	15	15	167300	DFT-s-OFDM 256QAM	75/0	13.395	14.274	PASS
2A_n5	15	15	167300	CP-OFDM QPSK	79/0	14.056	14.956	PASS
2A_n5	15	15	168300	DFT-s-OFDM PI/2 BPSK	75/0	13.378	14.236	PASS
2A_n5	15	15	168300	DFT-s-OFDM QPSK	75/0	13.361	14.129	PASS
2A_n5	15	15	168300	DFT-s-OFDM 16QAM	75/0	13.412	14.272	PASS
2A_n5	15	15	168300	DFT-s-OFDM 64QAM	75/0	13.388	14.192	PASS
2A_n5	15	15	168300	DFT-s-OFDM 256QAM	75/0	13.405	14.243	PASS
2A_n5	15	15	168300	CP-OFDM QPSK	79/0	14.069	14.855	PASS
2A_n5	15	20	166800	DFT-s-OFDM PI/2 BPSK	100/0	17.805	18.928	PASS
2A_n5	15	20	166800	DFT-s-OFDM QPSK	100/0	17.814	18.850	PASS
2A_n5	15	20	166800	DFT-s-OFDM 16QAM	100/0	17.806	18.732	PASS
2A_n5	15	20	166800	DFT-s-OFDM 64QAM	100/0	17.802	18.809	PASS
2A_n5	15	20	166800	DFT-s-OFDM 256QAM	100/0	17.786	18.766	PASS
2A_n5	15	20	166800	CP-OFDM QPSK	106/0	18.824	19.903	PASS
2A_n5	15	20	167300	DFT-s-OFDM PI/2 BPSK	100/0	17.768	18.696	PASS
2A_n5	15	20	167300	DFT-s-OFDM QPSK	100/0	17.796	18.866	PASS



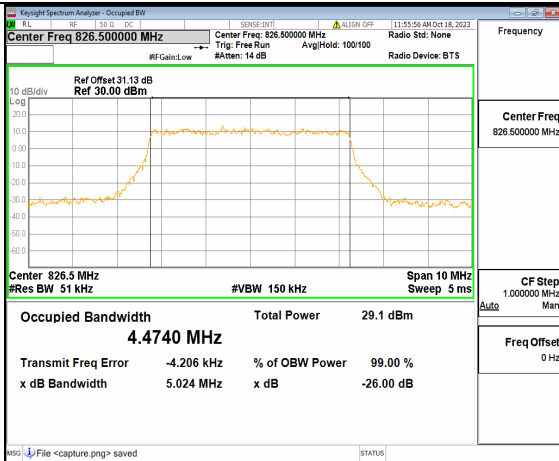
2A_n5	15	20	167300	DFT-s-OFDM 16QAM	100/0	17.796	18.768	PASS
2A_n5	15	20	167300	DFT-s-OFDM 64QAM	100/0	17.771	18.784	PASS
2A_n5	15	20	167300	DFT-s-OFDM 256QAM	100/0	17.764	18.747	PASS
2A_n5	15	20	167300	CP-OFDM QPSK	106/0	18.852	19.901	PASS
2A_n5	15	20	167800	DFT-s-OFDM PI/2 BPSK	100/0	17.796	18.768	PASS
2A_n5	15	20	167800	DFT-s-OFDM QPSK	100/0	17.793	18.837	PASS
2A_n5	15	20	167800	DFT-s-OFDM 16QAM	100/0	17.778	18.748	PASS
2A_n5	15	20	167800	DFT-s-OFDM 64QAM	100/0	17.761	18.741	PASS
2A_n5	15	20	167800	DFT-s-OFDM 256QAM	100/0	17.752	18.702	PASS
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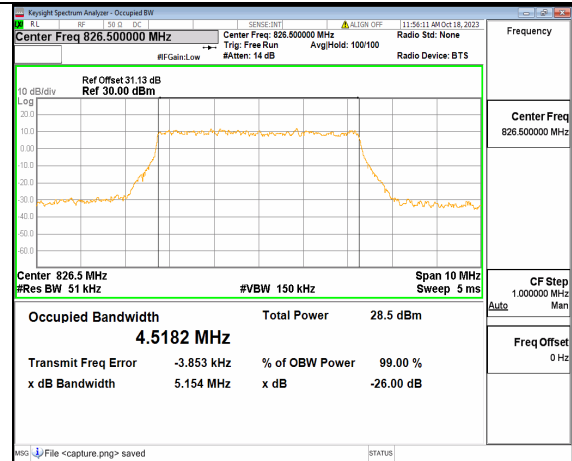
2A_n5 5M DFT-s-OFDM BPSK Outer_Full Low



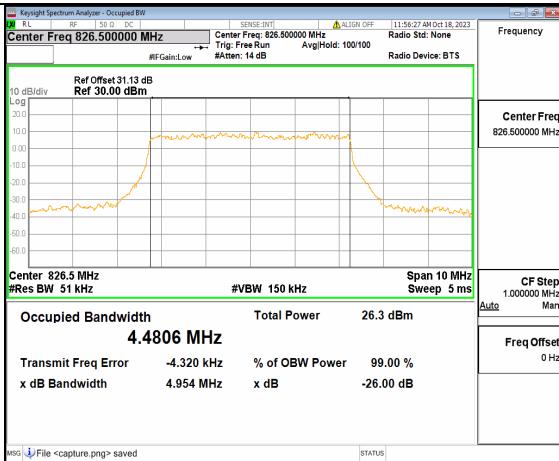
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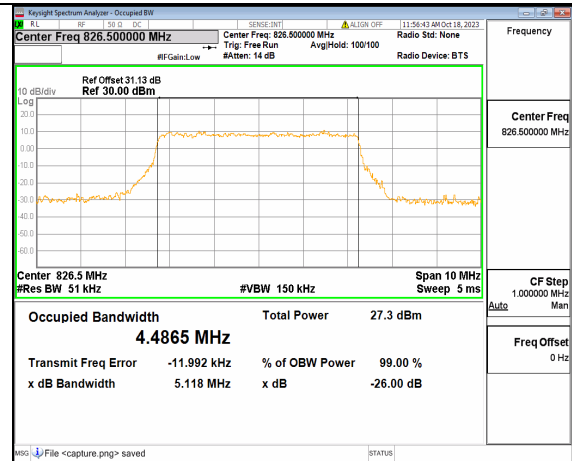
2A_n5 5M DFT-s-OFDM 16QAM Outer_Full Low



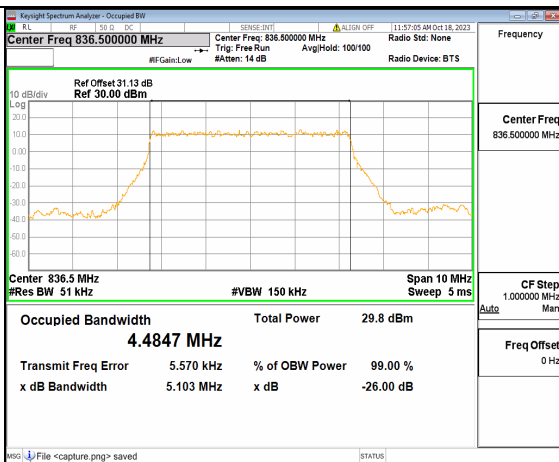
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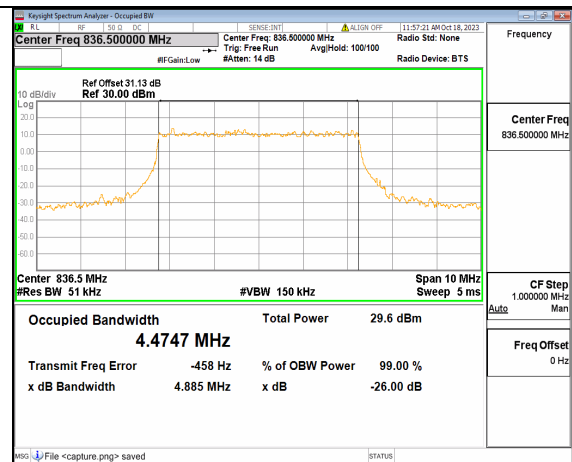
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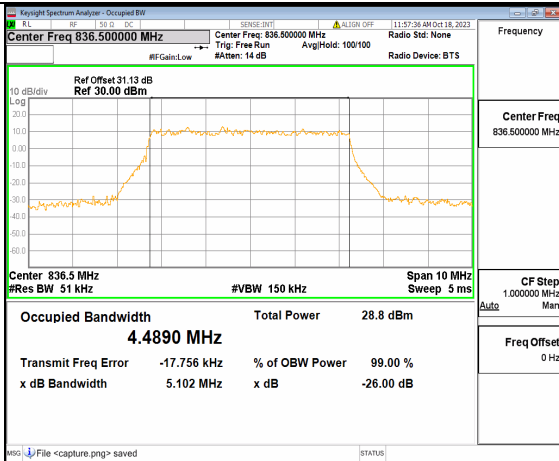
2A_n5 5M CP-OFDM QPSK Outer_Full Low



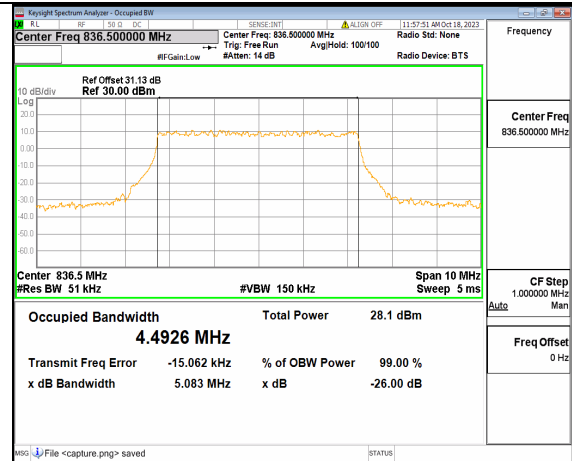
2A_n5 5M DFT-s-OFDM BPSK Outer_Full Mid



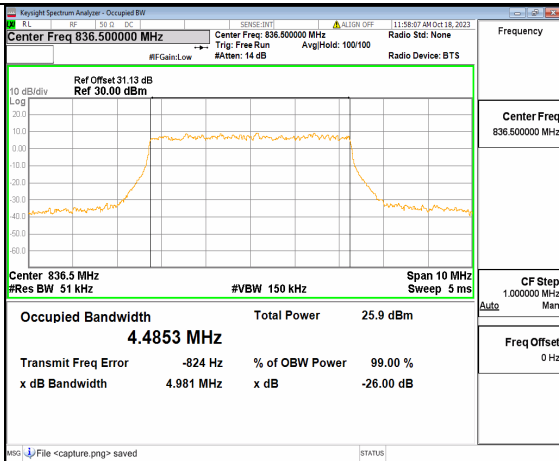
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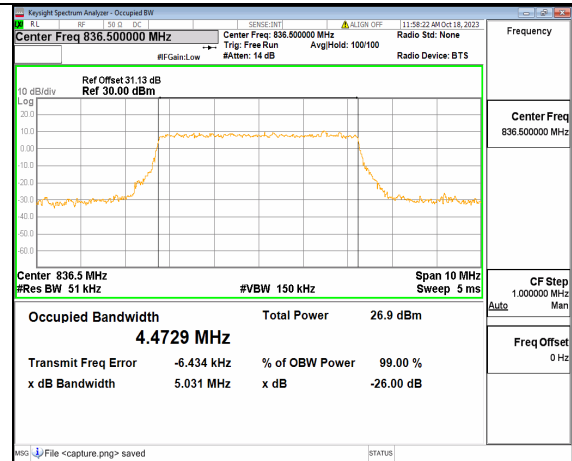
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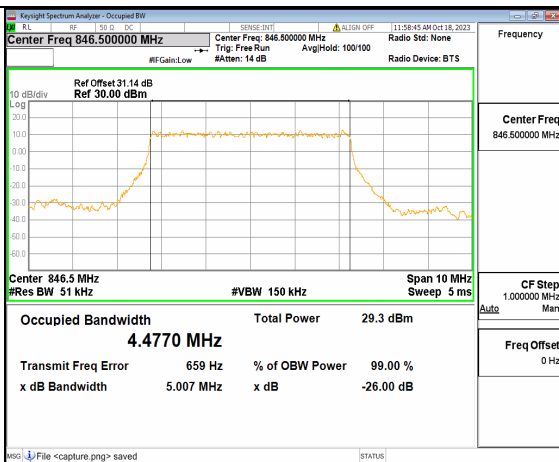
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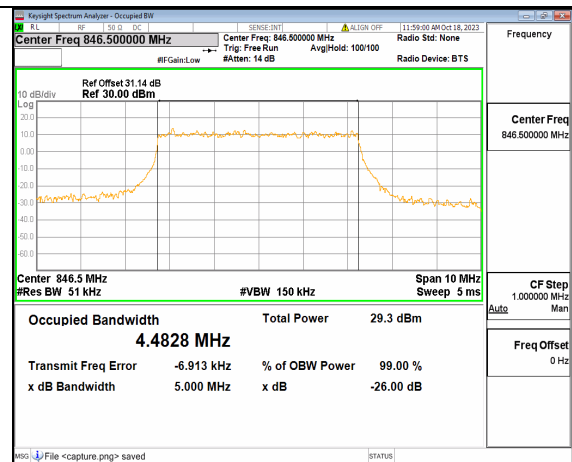
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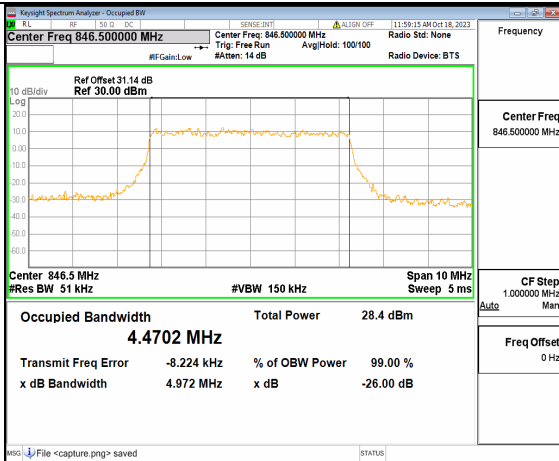
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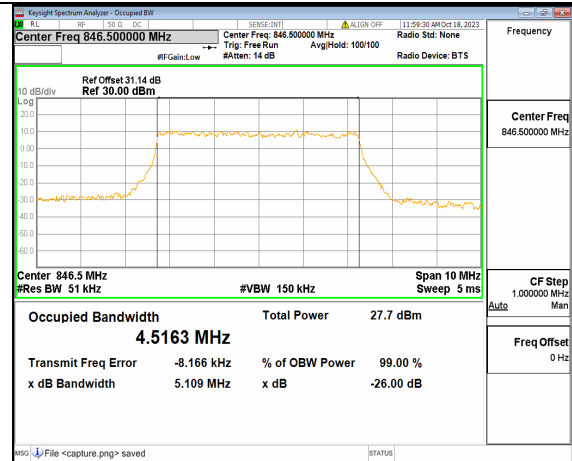
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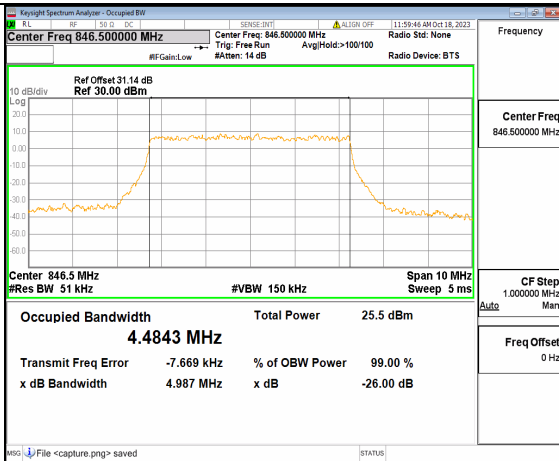
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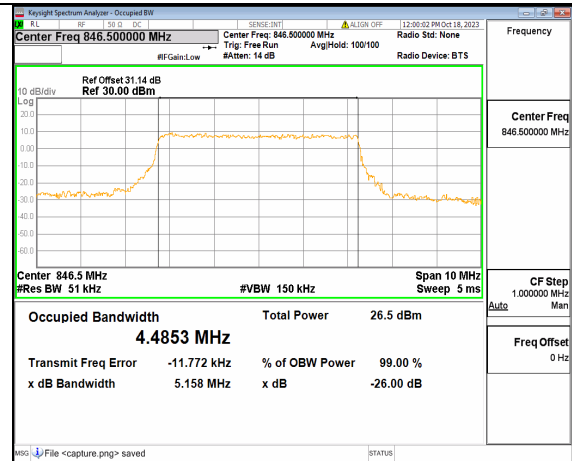
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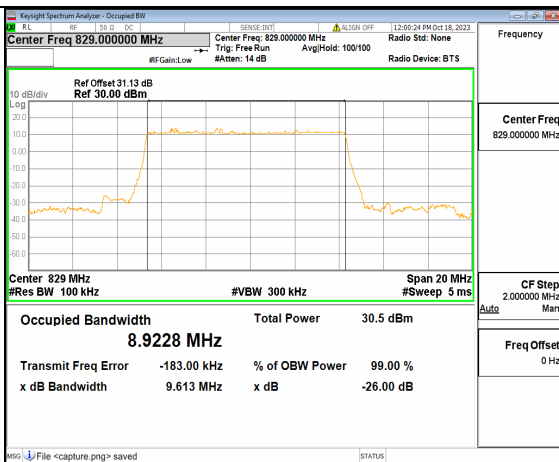
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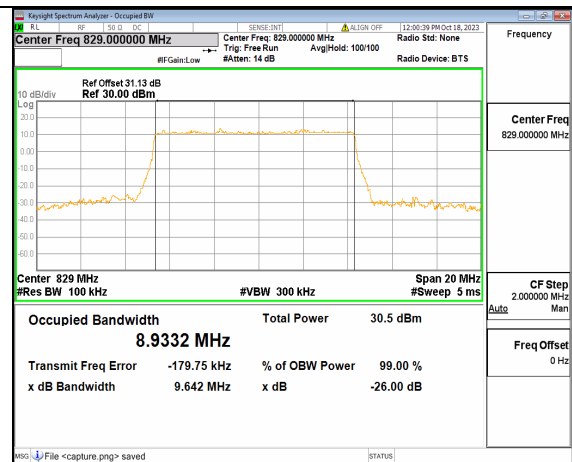
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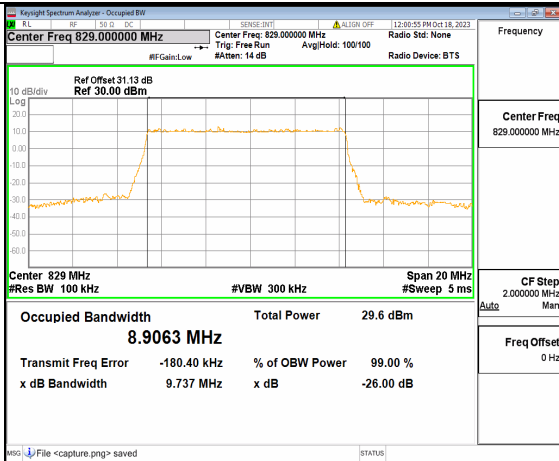
2A_n5 5M CP-OFDM QPSK Outer_Full High



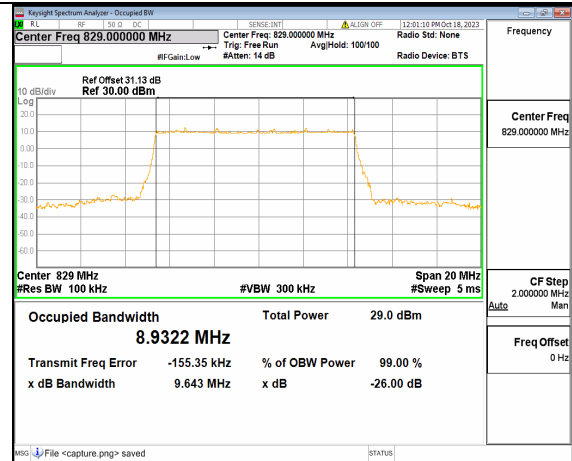
2A_n5 10M DFT-s-OFDM BPSK Outer_Full Low



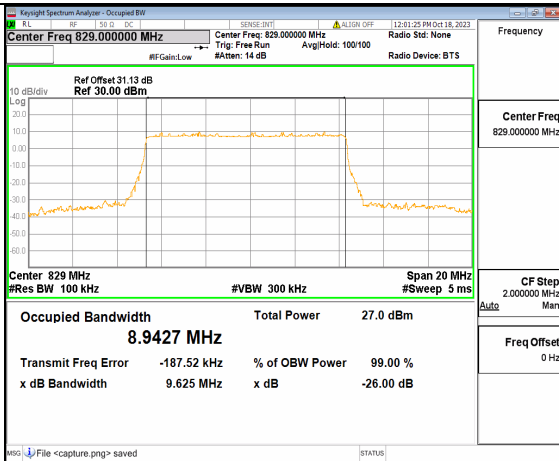
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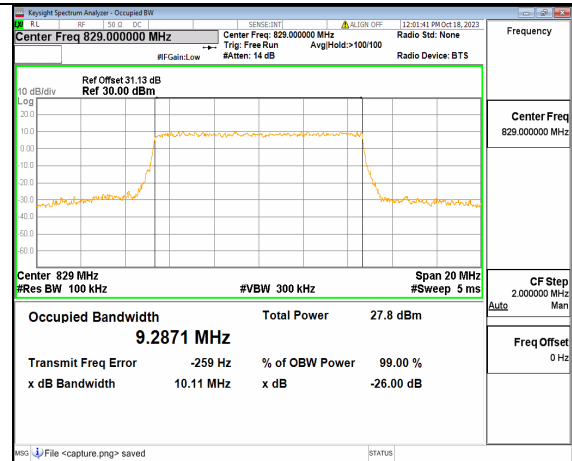
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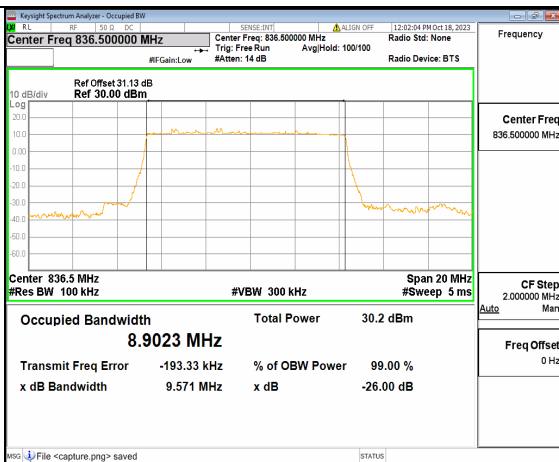
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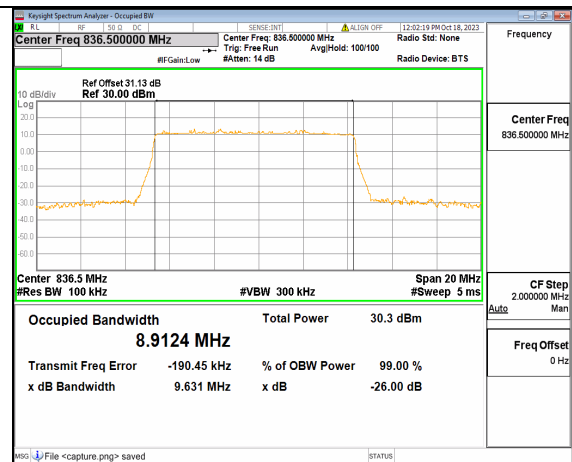
2A_n5 10M DFT-s-OFDM 256QAM Outer_Full Low



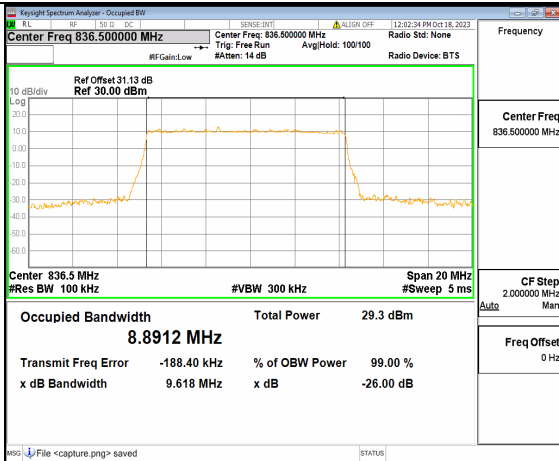
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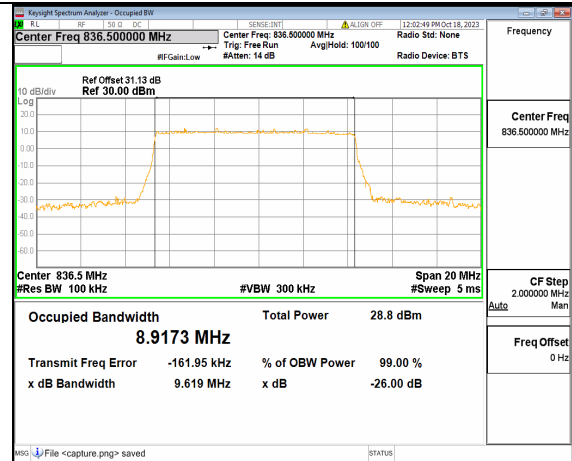
2A_n5 10M DFT-s-OFDM BPSK Outer_Full Mid



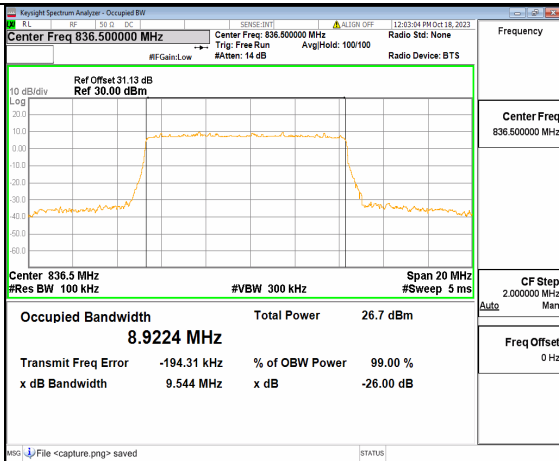
2A_n5 10M DFT-s-OFDM QPSK Outer_Full Mid



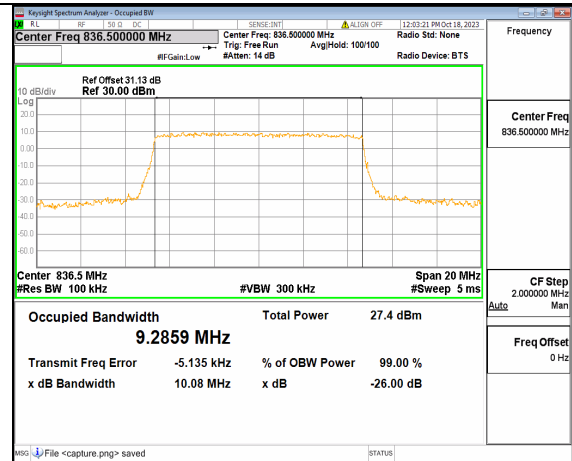
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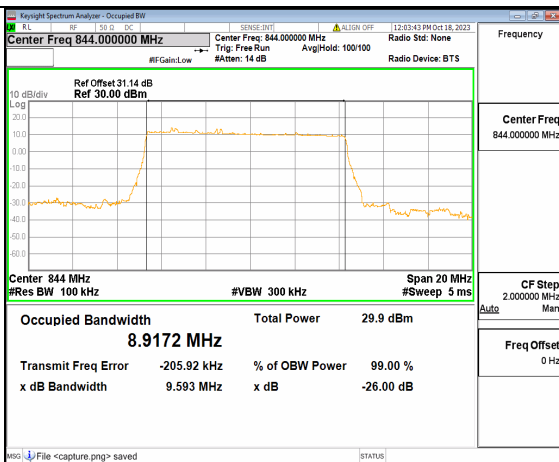
2A_n5 10M DFT-s-OFDM 64QAM Outer_Full Mid



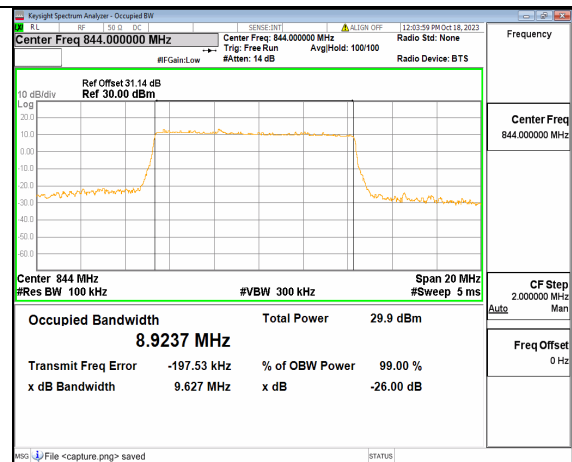
2A_n5 10M DFT-s-OFDM 256QAM Outer_Full Mid



2A_n5 10M CP-OFDM QPSK Outer_Full Mid



2A_n5 10M DFT-s-OFDM BPSK Outer_Full High



2A_n5 10M DFT-s-OFDM QPSK Outer_Full High