

Page: 1 of 96

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Telit Communications S.p.A.

Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste, Italy

Manufacturer: Telit Wireless Solutions. Co. Ltd.

13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,

Yeongdeungpo-gu, Seoul, 07330, South Korea

5G Radio Module **Product Name:**

Telit Cinterion or **Brand Name:**

Model No.: FN920C04-WW

Report Number: TERF2410003184ER

FCC ID RI7FN920C04WW

Date of EUT Received: October 24, 2024

Date of Test: October 29, 2024~April 10, 2025

Issue Date: April 14, 2025

Approved By____

Jazz Huana

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 96.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Page: 2 of 96

Revision History									
Report Number	Revision	Description	Issue Date	Revised By	Remark				
TERF2410003184ER	00	Original	March 21, 2025	Karen Huang					
TERF2410003184ER	01	Update test result	April 14, 2025	Karen Huang	*				

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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Page: 3 of 96

Contents

1	GENERAL PRODUCT INFORMATION	4
2	SYSTEM TEST CONFIGURATION	9
3	SUMMARY OF TEST RESULTS	11
4	DESCRIPTION OF TEST MODES	12
5	MEASUREMENT UNCERTAINTY	14
6	MEASUREMENT EQUIPMENT USED	15
7	MAXIMUM OUTPUT POWER MEASUREMENT	18
8	MAXIMUM POWER DENSITY MEASUREMENT	32
9	OCCUPIED BANDWIDTH MEASUREMENT	34
10	OUT OF BAND EMISSION AT ANTENNA TERMINALS	52
11	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	73
12	FREQUENCY STABILITY MEASUREMENT	87
13	PEAK TO AVERAGE RATIO	90
14	PHOTOGRAPHS OF SET UP	96
	PHOTOGRAPHS OF FUT	96

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Page: 4 of 96

GENERAL PRODUCT INFORMATION

Product Description

Product Name:	5G Radio Module
Brand Name:	Telit Cinterion or
Model No.:	FN920C04-WW
Hardware Version:	1.10
Firmware Version:	M0V.060001
EUT Series No.:	355411761007558, 355411761006303, 355411761003276
Power Supply:	3.3Vdc
Test Software (Name/Version)	Connect with Callbox

1.2 **Antenna Designation**

Antenna Type	Antenna Model No.						
Monopole	TG.55.8113						
Note: Transmission frequencies in this test report are only available by the above antenna(s).							

LTE Band	Frequency (MHz)	Peak Gain (dBi)	Insertion Loss	Final Gain (dBi)
LTE Band 42	3400~3600	1.51	0.6	0.91
LTE Band 43	3600~3800	1.51	0.6	0.91
LTE Band 48	3550~3700	1.51	0.6	0.91

5G NR Band	Freqency	Peak Gain	Insertion	Final Gain
	(MHz)	(dBi)	Loss	(dBi)
n48	3550 ~ 3700	1.51	0.6	0.91

Note: Antenna information is provided by the applicant.

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Page: 5 of 96

Operation Frequencies

LTE Band 48						
BW (MHz)	Operation	Freque	ency (MHz)			
5	3552.5	-	3697.5			
10	3555.0	-	3695.0			
15	3557.5	-	3692.5			
20	3560.0	-	3690.0			
	LTE Band 42	Part 9	96			
BW (MHz)	Operation	Freque	ency (MHz)			
5	3552.5	-	3597.5			
10	3555.0	-	3595.0			
15	35575.0	-	3592.5			
20	3560.0	-	3590.0			
LTE Band 43 Part 96						
BW (MHz)	Operation	Freque	ency (MHz)			
5	3602.5	-	3697.5			
10	3605.0	-	3695.0			
15	3607.5	-	3692.5			
20	3610.0	-	3690.0			

NR Band 48							
BW (MHz)	Operation Fred	quency	(MHz)				
10	3555.0	-	3695.0				
15	3557.5	-	3692.5				
20	3560.0	-	3690.0				

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Page: 6 of 96

Maximum ERP/EIRP

LTE Band	BW	Frequ	iency	M odulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission
				QPSK	22.05	EIRP	0.160	4.4949	4M49G7D
40	_	2550.5	2007.5	16QAM	21.31	EIRP	0.135	4.4839	4M48D7W
48	5	3552.5	3697.5	64QAM	20.47	EIRP	0.111	4.4910	4M49D7W
				256QAM	17.11	EIRP	0.051	4.4953	4M50D7W
				QPSK	22.51	EIRP	0.178	8.9733	8M97G7D
48	10	3555.0	3695.0	16QAM	21.33	EIRP	0.136	8.9891	8M99D7W
40	10	3333.0	3095.0	64QAM	20.44	EIRP	0.111	9.0032	9M00D7W
				256QAM	17.18	EIRP	0.052	9.0136	9M01D7W
				QPSK	22.27	EIRP	0.169	13.4400	13M4G7D
48	15	3557.5	3692.5	16QAM	21.39	EIRP	0.138	13.4640	13M5D7W
40	15	3337.3	3092.3	64QAM	20.68	EIRP	0.117	13.4490	13M4D7W
				256QAM	17.13	EIRP	0.052	13.4770	13M5D7W
				QPSK	22.13	EIRP	0.163	17.9820	18M0G7D
40	20	3560.0	0.0 3690.0	16QAM	21.29	EIRP	0.135	17.9220	17M9D7W
48	20	3300.0		64QAM	20.59	EIRP	0.115	17.9220	17M9D7W
				256QAM	17.14	EIRP	0.052	17.9300	17M9D7W
LTE	BW	Гтоли	10.001	Madulatan	ERP /	EIRP	(141)	99%	Type of
Band	DVV	Frequ	iericy	Modulation	(dBm/10MHz) (W)		(۷۷) 39 /0		Emission
				QPSK	22.05	EIRP	0.160	4.4949	4M49G7D
48	5	3552.5	2607.5	16QAM	21.31	EIRP	0.135	4.4839	4M48D7W
40) 3	3332.3	52.5 3697.5	64QAM	20.47	EIRP	0.111	4.4910	4M49D7W
				256QAM	17.11	EIRP	0.051	4.4953	4M50D7W
				QPSK	22.51	EIRP	0.178	8.9733	8M97G7D
48	10	3555.0	3695.0	16QAM	21.33	EIRP	0.136	8.9891	8M99D7W
40	10	3333.0	3095.0	64QAM	20.44	EIRP	0.111	9.0032	9M00D7W
				256QAM	17.18	EIRP	0.052	9.0136	9M01D7W
				QPSK	20.51	EIRP	0.112	13.4400	13M4G7D
40	15	2557.5	2002 5	16QAM	19.63	EIRP	0.092	13.4640	13M5D7W
48	15	3557.5	7.5 3692.5	64QAM	18.92	EIRP	0.078	13.4490	13M4D7W
				256QAM	15.37	EIRP	0.034	13.4770	13M5D7W
					15.37 19.12	EIRP EIRP	0.034 0.082	13.4770 17.9820	13M5D7W 18M0G7D
40		2500.0	2600.0	256QAM					
48	20	3560.0	3690.0	256QAM QPSK	19.12	EIRP	0.082	17.9820	18M0G7D

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Page: 7 of 96

5G NR Band	5G NR Band n48_Part96_Uplink frequency band : 3550 to 3700 MHz									
Bandwidth (MHz)	Low Frequency (MHz)	Upper Frequency (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission	
			DFT-s PI/2 BPSK	21.48	22.39	0.173	8.6137	8613.7	8M61G7W	
			DFT-s QPSK	21.39	22.30	0.170	8.6509	8650.9	8M65G7W	
10	3555	3694.98	DFT-s QAM	20.38	21.29	0.135	8.6421	8642.1	8M64D7W	
			CP QPSK	20.26	21.17	0.131	8.6509	8650.9	8M65G7W	
			CP QAM	19.39	20.30	0.107	8.6421	8642.1	8M64D7W	
			DFT-s PI/2 BPSK	21.36	22.27	0.169	12.915	12915.0	12M9G7W	
	3557.52		DFT-s QPSK	21.31	22.22	0.167	12.939	12939.0	12M9G7W	
15		3692.49	DFT-s QAM	20.29	21.20	0.132	12.933	12933.0	12M9D7W	
			CP QPSK	19.77	20.68	0.117	12.939	12939.0	12M9G7W	
			CP QAM	19.25	20.16	0.104	12.933	12933.0	12M9D7W	
			DFT-s PI/2 BPSK	21.49	22.40	0.174	17.93	17930.0	17M9G7W	
			DFT-s QPSK	21.42	22.33	0.171	17.938	17938.0	17M9G7W	
20	3560.01	3690	DFT-s QAM	20.18	21.09	0.129	17.944	17944.0	17M9D7W	
			CP QPSK	19.85	20.76	0.119	17.938	17938.0	17M9G7W	
			CP QAM	19.44	20.35	0.108	17.944	17944.0	17M9D7W	
5G NR Band	n48_Part96_U	Jplink frequen	cy band : 3550 to 3	700 MHz						

5G NR Band n48_Part96_Uplink frequency band : 3550 to 3700 M
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Bandwidth (MHz)	Low Frequency (MHz)	Upper Frequency (MHz)	Modulation	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission
			DFT-s PI/2 BPSK	21.48	22.39	0.173	8.6137	8613.7	8M61G7W
			DFT-s QPSK	21.39	22.30	0.170	8.6509	8650.9	8M65G7W
10	3555	3694.98	DFT-s QAM	20.38	21.29	0.135	8.6421	8642.1	8M64D7W
			CP QPSK	20.26	21.17	0.131	8.6509	8650.9	8M65G7W
			CP QAM	19.39	20.30	0.107	8.6421	8642.1	8M64D7W
		DFT-s PI/2 BPSK	19.60	20.51	0.112	12.915	12915.0	12M9G7W	
			DFT-s QPSK	19.55	20.46	0.111	12.939	12939.0	12M9G7W
15 3557.52	3692.49	DFT-s QAM	18.53	19.44	0.088	12.933	12933.0	12M9D7W	
		CP QPSK	18.01	18.92	0.078	12.939	12939.0	12M9G7W	
		CP QAM	17.49	18.40	0.069	12.933	12933.0	12M9D7W	
			DFT-s PI/2 BPSK	18.48	19.39	0.087	17.93	17930.0	17M9G7W
			DFT-s QPSK	18.41	19.32	0.086	17.938	17938.0	17M9G7W
20	3560.01	3690	DFT-s QAM	17.17	18.08	0.064	17.944	17944.0	17M9D7W
			CP QPSK	16.84	17.75	0.060	17.938	17938.0	17M9G7W
			CP QAM	16.43	17.34	0.054	17.944	17944.0	17M9D7W

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Page: 8 of 96

1.5 **Test Methodology of Applied Standards**

FCC 47 CFR Part 2, Part 96E

ANSI C63.26-2015

ANSI/ITA C603-E.2016

KDB 971168 D01 Power Meas license Digital System v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v02

KDB 412172 D01 Determining ERP and EIRP V01r01

1.6 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3]	
	No.134, Wu Kung Road, New Taipei	Conduction 1		
	Industrial Park, Wuku District, New	Conducted 1	TW0027	
	Taipei City, Taiwan.	Conducted 2	1 440027	
	raipor Oity, raiwari.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		TW3702
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladyddir City, Taiwaii 000	Conducted C		
		Conducted D		
		Conducted E	1	
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 **Special Accessories**

No special accessories were used during testing.

Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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Page: 9 of 96

SYSTEM TEST CONFIGURATION

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 **Test Procedure**

2.3.1 **Conducted Measurement at Antenna Port**

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

Measurement Results Explanation Example 2.4

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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Page: 10 of 96

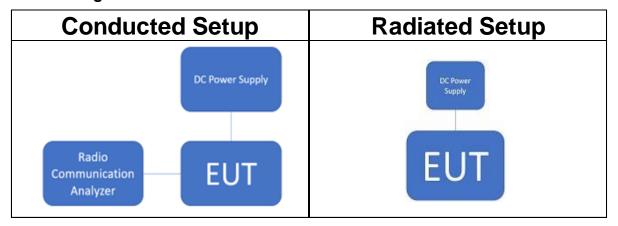
Final Amplifier Voltage and Current Information:

LTE Band 48

Test Mode	DC voltage	DC current
	(V)	(mA)
LTE Band 48_20M	3.3	230
QPSK	3.3	230

5G NR BAND n48											
CP-OFDM_SCS 30 kHz											
Test mode DC voltage (V) DC current (mA											
Bandwidth:10MHz Mod:256QAM	3.3	140									
Bandwidth:15MHz Mod:256QAM	3.3	150									
Bandwidth:20MHz Mod:256QAM	3.3	150									

2.6 **Test Configuration**



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.7 Control Unit(s)

N/A

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Page: 11 of 96

SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §96.41(b)	Maximum Power Output	Compliant
§2.1046, §96.41(b)	Maximum Power Density	Compliant
§2.1053, §96.41(e)	Field Strength Of Spurious Radiation	Compliant
§2.1051 §96.41(e)	Out Of Band Emission At Antenna	Compliant
§2.1049,(h)	Occupied Bandwidth	Compliant
§2.1055(a)	Frequency Stability	Compliant

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Page: 12 of 96

DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
- 3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4. The LTE power / Bandwidth / Channels / CBSD of B42/43 is the same as B48, so the test items will be covered by B48.

4.2 **Measurement Configuration**

LTE

LIL																
	Test Ite	ms							Max.	Output F	Power					
Dand	Tes	st Chanı	nel		Е	Bandwid	th (MHz	:)			Modu	lation			RB#	
Band	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
48	V	V	V	-	-	V	V	V	V	V	V	V	V	٧	V	V
	Test Ite	ms			Freqency Stability											
48	-	٧	-	-	-	-	V	-	-	٧	-	-	-	-	-	٧
	Test Ite	ms			26dB and 99% Bandwidth											
Band	Tes	st Chanı	nel		Bandwidth (MHz) Modulation RB									RB#		
Dallu	L	М	Η	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
48	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	Test Ite	ms			Peak-to-Av erage Ratio											
48	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	٧
	Test Ite	ms							В	and Edg	je					
Band	Tes	st Chanı	nel		E	Bandwid	th (MHz	:)			Modu	lation			RB#	
Dallu	L	М	Ι	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
48	V	-	V	-	-	V	V	V	V	V	-	-	-	V	-	V
	Test Ite	ms							Condu	icted Em	nission					
48	V	V	V	-	-	-	V	-	-	٧	-	-	-	٧	-	-
	Test Ite	ms							Radia	ted Emi	ssion					
Band	Tes	st Chanı	nel		E	Bandwid	th (MHz	:)			Modu	lation		RB#		
Dallu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
48	V	V	V	-	-	-	V	-	-	٧	-	-	-	V	-	-

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Page: 13 of 96

		Te	est Chan	inel							Band	lwidth (I	MHz)							M	lodulatio	n DFT-	-s-OFD	M	Mor	dulation	CP-OF	DM			RE	3#		
Test Items	Band	L	М	н	5	10	15	20	25	30		40	45	50	60	70	80	90	100	BPSK	QPSK	16 QAM	64 QAM	256 QAM	QPSK	16 QAM	64 QAM	256 QAM	Edge 1RB_Left	Edge 1RB_Right	Inner 1RB_Left	Inner 1RB_Right	Inner Full	Outer Full
Conducted Power		٧	٧	٧		v	٧	v												٧	v	v	ν	v	٧	٧	ν	٧			٧	v	٧	v
Freqency Stability			٧																v						٧									v
Occupied Bandwidth		٧	٧	v		v	٧	v												٧	v	v	v	v										v
Bandedge	48																																	
Mask	(part96)	٧	٧	٧		٧	٧	٧												٧					٧				v	٧				v
Conducted Emission	1	٧	٧	٧		v	٧	٧												٧											٧			
CCDF	1	٧	ν	٧		v	٧	v																v										ν

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Page: 14 of 96

MEASUREMENT UNCERTAINTY

Test Items	Und	certair	nty
Power Density	+/-	0.61	dB
RF Power Output	+/-	0.97	dB
ERP/ EIRP measurement	+/-	2.15	dB
ENF/ EINF IIIeasurement	+/-	2.15	dB
Emission Bandwidth	+/-	1.38	Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/-	0.77	dB
Peak to Average Ratio	+/-	0.97	dB
Frequency Stability vs. Temperature	+/-	1.48	Hz
Frequency Stability vs. Voltage	+/-	1.48	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious E	Emiss	ion Meas	uremer	nt Uncertainty
	+/-	1.89	dB	9kHz~30MHz
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz
Polarization: Vertical	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
	+/-	1.89	dB	9kHz~30MHz
Polarization: Horizontal	+/-	4.02	dB	30MHz - 1000MHz
Polarization. Horizontal	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
Radiated Spurious Emission	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	dB	140GHz-220GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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Page: 15 of 96

MEASUREMENT EQUIPMENT USED

Conducted Measurement

LTE

	C	Conducted Emission T	est Site: Conducted	4	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	8	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	8	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	12	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	12	12/11/2024	12/10/2025
DC Power Supply	Gwinstek	SPS-3610	GEV856750	08/14/2024	08/13/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/16/2024	12/15/2025
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	03/22/2024	03/21/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/23/2024	08/22/2025
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	12/12/2023	12/11/2024
Splitter	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-018	12/11/2024	12/10/2025
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/05/2024	06/04/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

NR

	C	onducted Emission T	est Site: Conducted	3			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)		
Attenuator	Mini-Circuits	BW-S10W2+	8	12/12/2023	12/11/2024		
DC Block	Mini-Circuits	BLK-18-S+	4	12/12/2023	12/11/2024		
Attenuator	Mini-Circuits	BW-S10W2+	8	12/11/2024	12/10/2025		
DC Block	Mini-Circuits	BLK-18-S+	4	12/11/2024	12/10/2025		
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/13/2024	09/12/2025		
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/14/2024	10/13/2025		
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/18/2023	12/17/2024		
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/16/2024	12/15/2025		
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	03/22/2024	03/21/2025		
Radio Communication Analyzer	KEYSIGHT	E7515B	MY601922462	06/02/2024	06/01/2025		
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/12/2023	12/11/2024		
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/11/2024	12/10/2025		
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/05/2024	06/04/2025		
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R		

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Page: 16 of 96

6.2 Radiated Measurement

LTE

		Radiated Emissio	n Test Site: SAC 3		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/12/2023	12/11/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
DC Power Supply	HILA	DP-3003N	11233K1019035	03/18/2024	03/17/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/28/2023	12/27/2024
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/23/2024	08/22/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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Page: 17 of 96

		Radiated Emissio	n Test Site: SAC 3		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
4G High Pass Filter	WI	WHKX4.0	22	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
Band Reject Filter 3250-3750	Micro-Tronics	BRM15247	1	12/12/2023	12/11/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/28/2023	12/27/2024
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321566	02/15/2024	02/14/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

Note: N.C.R refers to Not Calibrated Required.

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Page: 18 of 96

MAXIMUM OUTPUT POWER MEASUREMENT

7.1 **Standard Applicable**

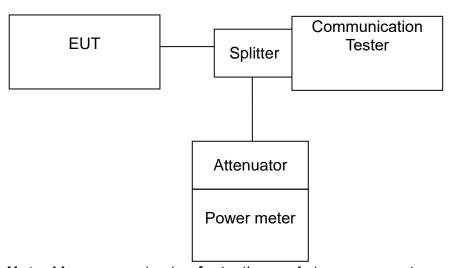
FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective iso tropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD ¹	47

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

7.2 **Test Set-up**



Note: Measurement setup for testing on Antenna connector

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Page: 19 of 96

7.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

Determining ERP and/or EIRP from conducted RF output power measurements ERP/EIRP = PMeas + GT-LC

Where:

= effective or equivalent radiated power, respectively (expressed in the same ERP/EIRP units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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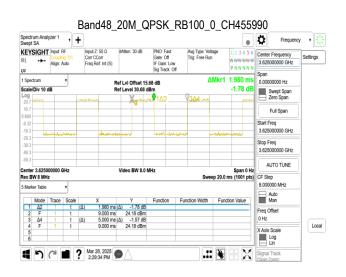


Page: 20 of 96

7.4 Measurement Result:

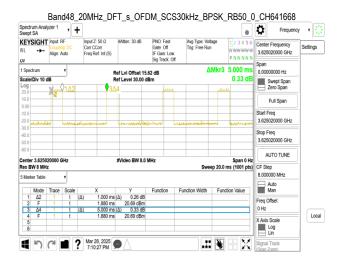
LTE

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
(TDD)LTE_Band48_20MHz_QPSK	39.60	4.02



NR

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
(TDD)NR_n48	20.00	6.99



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Page: 21 of 96

Antenna	gain (dBi)	0.91							
	LT	E Band 48_	E Band 48_Uplink frequency band : 3550 to 3700 MHz						
BW	UL	Frequency	Modulation	RB	RB	Conducted Average	EIRP Average		
(MHz)	Channel	(MHz)	Modulation	Size	Offset	(dBm)	(dBm)		
				1	0	21.11	22.02		
				1	24	20.80	21.71		
	55265	3552.5	QPSK	12	6	20.15	21.06		
				25	0	20.03	20.94		
				1	0	20.72	21.63		
				1	24	20.69	21.60		
5	55990	3625	QPSK	12	6	19.97	20.88		
				25	0	19.96	20.87		
				1	0	21.14	22.05		
				1	24	21.08	21.99		
	56715	3697.5	QPSK	12	6	20.18	21.09		
				25	0	20.18	21.09		
				1	0	20.40	21.31		
				1	24	20.25	21.16		
	55265	3552.5	16QAM	12	6	19.22	20.13		
				25	0	19.06	19.97		
		3625		1	0	20.09	21.00		
_	55000		16QAM	1	24	20.06	20.97		
5	55990			12	6	19.03	19.94		
				25	0	18.98	19.89		
				1	0	20.31	21.22		
	FC74F	2007 5	400414	1	24	20.27	21.18		
	56715	3697.5	16QAM	12	6	19.21	20.12		
				25	0	19.17	20.08		
				1	0	19.48	20.39		
	55265	3552.5	64QAM	1	24	19.47	20.38		
	55205	3332.3		12	6	18.31	19.22		
				25	0	18.20	19.11		
				1	0	19.40	20.31		
5	55990	3625	64QAM	1	24	19.42	20.33		
		5520	0.00,000	12	6	18.30	19.21		
				25	0	18.35	19.26		
				1	0	19.56	20.47		
	56715	3697.5	64QAM	1	24	19.49	20.40		
				12	6	18.38	19.29		
				25	0	18.32	19.23		
				1	0	16.20	17.11		
	55265	3552.5	256QAM	1	24	16.14	17.05		
				12	6	16.03	16.94		
				25	0	15.98	16.89		
				1	0	16.13	17.04		
5	55990	3625	256QAM	1	24	16.17	17.08		
				12	6	16.06	16.97		
				25	0	16.03	16.94		
				1	0	16.16	17.07		
	56715	3697.5	256QAM	12	24	16.07	16.98		
				12	6	16.09	17.00		
				25	0	16.00	16.91		

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Page: 22 of 96

State	Antenna	gain (dBi)	0.91					
Name		LTE	Band 48_Up	olink frequen	cy band	: 3550 to	3700 MHz	
10				Modulation			Average	Average
10	, ,		,		1	0		
10 55990 3625 QPSK								
10 55990 3625 QPSK 1 0 20.80 21.71 21.02 1 49 20.73 21.64 225 12 19.98 20.89 50 0 19.99 20.90 1 0 20.89 21.80 225 12 20.11 21.02 50 0 20.09 21.00 20.00 20.11 20.00 20.00 21.11 20.02 20.02		55290	3555	QPSK				
10 55990 3625 QPSK								
10								
10			3625					
10	10	55990		QPSK				
10								
10								
10				0.0017		_		
10		56690	3695	QPSK	25			
10								
10								
10		55000	٥٥٥٥	400 414	1	49	20.31	
10 55990 3625 16QAM 1 49 20.08 20.99 25 12 19.03 19.94 50 0 19.04 19.95 1 0 20.24 21.33 19.94 1 0 20.42 21.33 1 20.04 25 12 19.13 20.04 25 12 19.13 20.04 20.40 21.31 25 12 19.13 20.04 20.31 25 12 18.33 19.24 20.03 25 12 18.33 19.24 25 12 18.33 19.24 25 12 18.37 19.28 25 12 18.37 19.28 25 12 18.37 19.28 25 12 18.38 19.29 20.04 25 12 18.38 19.29 20.04 20.05 25 25 25 25 25 25 25		55290	3555	16QAM	25	12		
10 55990 3625 16QAM					50	0		20.05
10					1	0	20.20	21.11
10	10	EE000	3625	16OAM	1	49	20.08	20.99
10	10	55990		IOQAW	25	12	19.03	19.94
10					50	0	19.04	19.95
10					1	0	20.42	21.33
10		56600	3695	16OAM	1	49	20.40	21.31
10		30030		IOQAW	25	12	19.13	20.04
10					50	0	19.12	20.03
10				64QAM	1	0	19.27	20.18
10 55990 3625 64QAM 25 12 18.33 19.24 1 0 19.10 1 1 0 19.41 20.32 1 1 49 19.43 20.34 25 12 18.37 19.28 50 0 18.29 19.20 1 0 19.53 20.44 1 1 0 19.53 20.44 25 12 18.38 19.29 50 0 18.29 19.20 1 1 0 16.23 17.14 1 0 16.23 17.14 1 1 0 16.23 17.14 1 1 0 16.23 17.14 1 1 0 16.23 17.14 1 1 0 16.25 16.96 16.96 16.96 16.96 16.97 1 1 0 16.05 16.96 16.96 16.96 16.97 1 1 0 16.05 16.96		55290	3555		1		19.40	20.31
10 55990 3625 64QAM 1 49 19.41 20.32 20.34 25 12 18.37 19.28 50 0 18.29 19.20 19.20 20.44 1 49 19.47 20.38 20.44 1 49 19.47 20.38 20.44 25 12 18.38 19.29 50 0 18.29 19.20 20.38 25 12 18.38 19.29 20 20 20 20 20 20 20 20 20 20 20 20 20		00200						
10 55990 3625 64QAM 1 49 19.43 20.34 25 12 18.37 19.28 50 0 18.29 19.20 19.20 19.20 19.47 20.38 20.44 1 49 19.47 20.38 25 12 18.38 19.29 50 0 18.29 19.20 19								
10								
10	10	55990	3625	64QAM				
1 0 19.53 20.44 25 12 18.38 19.29 50 0 18.29 19.20 1 0 16.23 17.14 1 49 16.15 17.06 25 12 16.05 16.96 50 0 16.09 17.00 10 55990 3625 256QAM 256QAM 1 49 16.06 16.97 25 12 16.00 16.91 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.05 16.96 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95 50 0 16.04 16.95								
56690 3695 64QAM 1 49 19.47 20.38 25 12 18.38 19.29 50 0 18.29 19.20 1 0 16.23 17.14 1 49 16.15 17.06 25 12 16.05 16.96 50 0 16.09 17.00 25 12 16.05 16.96 50 0 16.09 17.00 25 12 16.00 16.96 25 12 16.00 16.91 50 0 16.04 16.95 50 0 16.04 16.95 1 0 16.18 17.09 1 49 16.05 16.96 1 49 16.05 16.96 1 49 16.05 16.96 25 12 16.07 17.18						_		
56690 3695 64QAM 25 12 18.38 19.29 50 0 18.29 19.20 10 16.23 17.14 1 0 16.23 17.14 1 49 16.15 17.06 16.96 16.96 16.96 16.96 16.97 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.91 17.00 16.00 16.90 17.00 16.00 16.90 17.00 16.90 16								
10		56690	3695	64QAM				
10 3555 256QAM 1 0 16.23 17.14 1 49 16.15 17.06 25 12 16.05 16.96 16.96 16.05 16.96 16.96 16.96 16.97 25 12 16.00 16.91 16.05 16.95 16.96 16.96 16.97 16.06 16.9								
10 3555 256QAM 1 49 16.15 17.06 25 12 16.05 16.96 50 0 16.09 17.00 1 0 16.05 16.96 1 49 16.06 16.97 25 12 16.00 16.91 50 0 16.04 16.95 1 0 16.18 17.09 1 49 16.05 16.96 1 49 16.05 16.96 1 49 16.05 16.96 25 12 16.27 17.18 17.18 17.18 17.18 17.18 17.18	<u> </u>					_		
10 55990 3625 256QAM 25 12 16.05 16.96 50 0 16.09 17.00 16.96 16.96 16.96 16.97 25 12 16.00 16.91 16.05 16.96 16.97 25 12 16.00 16.91 16.95 16.96 16.96 16.95 16.96 16.96 16.95 16.96 16.9								
10 55990 3625 256QAM 1 0 16.09 17.00 1 10.00 1		55290	3555	256QAM				
10 55990 3625 256QAM 1 0 16.05 16.96 16.97 25 12 16.00 16.91 50 0 16.04 16.95 16.96 16.96 16.95 16.96 16.96 16.95 16.96								
10 55990 3625 256QAM 1 49 16.06 16.97 25 12 16.00 16.91 50 0 16.04 16.95 1 0 16.18 17.09 1 49 16.05 16.96 25 12 16.27 17.18								
10 55990 3625 256QAM 25 12 16.00 16.91 50 0 16.04 16.95 1 0 16.18 17.09 1 1 49 16.05 16.96 25 12 16.27 17.18								
50 0 16.04 16.95 1 0 16.18 17.09 1 49 16.05 16.96 25 12 16.27 17.18	10	55990	3625	256QAM		_		
56690 3695 256QAM 1 0 16.18 17.09 1 1 49 16.05 16.96 25 12 16.27 17.18								
56690 3695 256QAM 1 49 16.05 16.96 25 12 16.27 17.18								
56690 3695 256QAM 25 12 16.27 17.18			000-	0=06				
		56690	3695	256QAM				

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Page: 23 of 96

Antenna	gain (dBi)	0.91					
	LTE	Band 48_Uր	olink frequen	cy band	: 3550 to	3700 MHz	
BW	UL	Frequency	Modulation	RB	RB	Conducted Average	EIRP
(MHz)	Channel	(MHz)	IVIOGUIATION	Size	Offset	(dBm)	Average (dBm)
				1	0	21.08	21.99
				. 1	74	21.25	22.16
	55315	3557.5	QPSK	36	18	20.09	21.00
				75	0	20.09	21.00
				1	0	21.11	22.02
4.5	FF000	2005	ODCK	1	74	21.05	21.96
15	55990	3625	QPSK	36	18	20.00	20.91
				75	0	19.99	20.90
				1	0	21.36	22.27
	56665	3692.5	QPSK	1	74	21.34	22.25
	30003	3092.3	QP3N	36	18	20.24	21.15
				75	0	20.21	21.12
				1	0	20.34	21.25
	55315	3557.5	16QAM	1	74	20.29	21.20
	33313	3557.5	IOQAW	36	18	19.17	20.08
				75	0	19.08	19.99
		3625		1	0	20.39	21.30
15	55990		16QAM	1	74	20.26	21.17
13	33330		IOQAW	36	18	19.06	19.97
				75	0	19.01	19.92
		3692.5		1	0	20.48	21.39
	56665		16QAM	1	74	20.45	21.36
			-	36	18	19.25	20.16
				75	0	19.19	20.10
				11	0	19.77	20.68
	55315	3557.5	64QAM	11	74	19.70	20.61
	00010			36	18	18.49	19.40
				75	0	18.36	19.27
				1	0	19.48	20.39
15	55990	3625	64QAM	1	74	19.46	20.37
				36	18	18.44	19.35
	ļ			75	0	18.37	19.28
	1			1	0	19.49	20.40
	56665	3692.5	64QAM	1	74	19.51	20.42
	1			36	18	18.30	19.21
	 			75	0	18.24	19.15
	1			1	0	16.17	17.08
	55315	3557.5	256QAM	1	74	16.14	17.05
	1			36	18	15.98	16.89
				75	0	15.97	16.88
				11	74	16.22	17.13
15	55990	3625	256QAM	1 26	74	16.07	16.98
	1			36	18 0	16.04	16.95
				75 1	0	16.02 16.12	16.93
				1	74	16.12	17.03 17.01
	56665	3692.5	256QAM	36	18	16.10	16.98
	<u> </u>		l l	75	0	16.03	16.94

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Page: 24 of 96

Antenna	gain (dBi)	0.91					
	LTE	Band 48_Up	olink frequen	cy band	: 3550 to	3700 MHz	
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)
				1	0	21.21	22.12
				1	99	21.17	22.08
	55340	3560	QPSK	50	25	20.12	21.03
				100	0	20.09	21.00
				1	0	21.11	22.02
00	55000	0005	00014	1	99	21.09	22.00
20	55990	3625	QPSK	50	25	20.01	20.92
				100	0	20.00	20.91
				1	0	21.22	22.13
	50040	2000	ODOV	1	99	21.18	22.09
	56640	3690	QPSK	50	25	20.28	21.19
				100	0	20.15	21.06
				1	0	20.29	21.20
	EE240	2560	160AM	1	99	20.36	21.27
	55340 3560	16QAM	50	25	19.15	20.06	
				100	0	19.09	20.00
		3625		1	0	20.28	21.19
20	55990		16QAM	1	99	20.22	21.13
20	33330			50	25	19.08	19.99
				100	0	18.98	19.89
				1	0	20.38	21.29
	56640	3690	16QAM	1	99	20.35	21.26
	00010	0000	10001111	50	25	19.23	20.14
				100	0	19.15	20.06
				11	0	19.68	20.59
	55340	3560	64QAM	1	99	19.61	20.52
				50	25	18.28	19.19
				100	0	18.22	19.13
				1	0	19.38	20.29
20	55990	3625	64QAM	1	99	19.47	20.38
				50	25	18.34	19.25
				100	0	18.29	19.20 20.39
				<u>1</u> 1	99	19.48 19.39	20.39
	56640	3690	64QAM	50	25	18.35	19.26
				100	0	18.32	19.23
				1	0	16.16	17.07
				1	99	15.93	16.84
	55340	3560	256QAM	50	25	16.03	16.94
				100	0	16.07	16.98
				1	0	16.23	17.14
00	55000	2025	0500444	1	99	16.01	16.92
20	55990	3625	256QAM	50	25	16.15	17.06
				100	0	16.03	16.94
				1	0	16.16	17.07
	56640	3600	2560 414	1	99	15.97	16.88
	56640	3690	256QAM	50	25	16.00	16.91
				100	0	16.03	16.94

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Page: 25 of 96

Antenna	gain (dBi)	0.91							
			LTE Band 48_	Uplink	frequenc	cy band : 3550 to	3700 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
	55265	3552.5	QPSK	1 12	0 24 6	21.11 20.80 20.15	22.02 21.71 21.06	23 23 23	-0.98 -1.29 -1.94
5	55990	3625	QPSK	25 1 1 12	0 0 24 6	20.03 20.72 20.69 19.97	20.94 21.63 21.60 20.88	23 23 23 23	-2.06 -1.37 -1.4 -2.12
56715	56715	3697.5	QPSK	25 1 1 12	0 0 24 6	19.96 21.14 21.08 20.18	20.87 22.05 21.99 21.09	23 23 23 23	-2.13 -0.95 -1.01 -1.91
	55265	3552.5	16QAM	25 1 1 1 12 25	0 0 24 6 0	20.18 20.40 20.25 19.22 19.06	21.09 21.31 21.16 20.13 19.97	23 23 23 23 23 23	-1.91 -1.69 -1.84 -2.87 -3.03
5	55990	3625	16QAM	1 1 12 25	0 24 6 0	20.09 20.06 19.03 18.98	21.00 20.97 19.94 19.89	23 23 23 23 23	-2 -2.03 -3.06 -3.11
	56715	3697.5	16QAM	1 1 12 25	0 24 6 0	20.31 20.27 19.21 19.17	21.22 21.18 20.12 20.08	23 23 23 23	-1.78 -1.82 -2.88 -2.92
	55265	3552.5	64QAM	1 1 12 25	0 24 6 0	19.48 19.47 18.31 18.20	20.39 20.38 19.22 19.11	23 23 23 23	-2.61 -2.62 -3.78 -3.89
5	55990	3625	64QAM	1 1 12 25	0 24 6 0	19.40 19.42 18.30 18.35	20.31 20.33 19.21 19.26	23 23 23 23	-2.69 -2.67 -3.79 -3.74
	56715	3697.5	64QAM	1 1 12 25	0 24 6 0	19.56 19.49 18.38 18.32	20.47 20.40 19.29 19.23	23 23 23 23	-2.53 -2.6 -3.71 -3.77
	55265	3552.5	256QAM	1 1 12 25	0 24 6 0	16.20 16.14 16.03 15.98	17.11 17.05 16.94 16.89	23 23 23 23 23	-5.89 -5.95 -6.06 -6.11
5	55990	3625	256QAM	1 1 12 25	0 24 6 0	16.13 16.17 16.06 16.03	17.04 17.08 16.97 16.94	23 23 23 23 23	-5.96 -5.92 -6.03 -6.06
	56715	3697.5	256QAM	1 1 12 25	0 24 6 0	16.16 16.07 16.09 16.00	17.07 16.98 17.00 16.91	23 23 23 23 23	-5.93 -6.02 -6 -6

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Page: 26 of 96

Antenna	gain (dBi)	0.91							
			LTE Band 48	_Uplinl	c frequen	cy band : 3550	to 3700 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
				1	0	21.60	22.51	23	-0.49
	55290	3555	QPSK	1	49	21.06	21.97	23	-1.03
	33230	0000	Qi oit	25	12	20.16	21.07	23	-1.93
				50	0	20.11	21.02	23	-1.98
				1	0	20.80	21.71	23	-1.29
10	55990	3625	QPSK	1	49	20.73	21.64	23	-1.36
	00000	0020	α. σ	25	12	19.98	20.89	23	-2.11
				50	0	19.99	20.90	23	-2.1
				1	0	20.89	21.80	23	-1.2
	56690	3695	QPSK	1	49	20.78	21.69	23	-1.31
				25	12	20.11	21.02	23	-1.98
				50	0	20.09	21.00	23	-2
				1	0	20.31	21.22	23	-1.78
	55290	3555	16QAM	1	49	20.31	21.22	23	-1.78
	00200			25	12	19.16	20.07	23	-2.93
				50	0	19.14	20.05	23	-2.95
				1	0	20.20	21.11	23	-1.89
10	55990	3625	16QAM	1	49	20.08	20.99	23	-2.01
	00000			25	12	19.03	19.94	23	-3.06
				50	0	19.04	19.95	23	-3.05
		90 3695		1	0	20.42	21.33	23	-1.67
	56690		16QAM	1	49	20.40	21.31	23	-1.69
	00000		1000/1111	25	12	19.13	20.04	23	-2.96
				50	0	19.12	20.03	23	-2.97
				1	0	19.27	20.18	23	-2.82
	55290	3555	64QAM	1	49	19.40	20.31	23	-2.69
	00200	0000	0100/11/1	25	12	18.33	19.24	23	-3.76
				50	0	18.19	19.10	23	-3.9
				1	0	19.41	20.32	23	-2.68
10	55990	3625	64QAM	1	49	19.43	20.34	23	-2.66
10	00000	0020	0100/1111	25	12	18.37	19.28	23	-3.72
				50	0	18.29	19.20	23	-3.8
				1	0	19.53	20.44	23	-2.56
	56690	3695	64QAM	1	49	19.47	20.38	23	-2.62
	33300	3300	J 130/1111	25	12	18.38	19.29	23	-3.71
				50	0	18.29	19.20	23	-3.8
				1	0	16.23	17.14	23	-5.86
	55290	3555	256QAM	1	49	16.15	17.06	23	-5.94
	00200	5555	2000/ (IVI	25	12	16.05	16.96	23	-6.04
				50	0	16.09	17.00	23	-6
				1	0	16.05	16.96	23	-6.04
10	55990	3625	256QAM	1	49	16.06	16.97	23	-6.03
10	00000	0020	200 Q/ (IVI	25	12	16.00	16.91	23	-6.09
				50	0	16.04	16.95	23	-6.05
				1	0	16.18	17.09	23	-5.91
	56690	3695	256QAM	1	49	16.05	16.96	23	-6.04
	50050	5030	ZUUQAW	25	12	16.27	17.18	23	-5.82
				50	0	16.08	16.99	23	-6.01

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Page: 27 of 96

Antenna	gain (dBi)	0.91							
			LTE Band 48	_Uplinl	k frequen	cy band : 3550	to 3700 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
				1	0	19.32	20.23	23	-2.77
	55315	3557.5	QPSK	1	74	19.49	20.40	23	-2.60
	33313	3337.3	QI SIX	36	18	18.33	19.24	23	-3.76
				75	0	18.33	19.24	23	-3.76
				1	0	19.35	20.26	23	-2.74
15	55990	3625	QPSK	1	74	19.29	20.20	23	-2.80
10	00000	0020	Qi Oit	36	18	18.24	19.15	23	-3.85
				75	0	18.23	19.14	23	-3.86
				1	0	19.60	20.51	23	-2.49
	56665	3692.5	QPSK	1	74	19.58	20.49	23	-2.51
	30003	3032.3	QI OIL	36	18	18.48	19.39	23	-3.61
				75	0	18.45	19.36	23	-3.64
				1	0	18.58	19.49	23	-3.51
	55315	3557.5	16QAM	1	74	18.53	19.44	23	-3.56
	33313	3337.3	IOQAW	36	18	17.41	18.32	23	-4.68
				75	0	17.32	18.23	23	-4.77
				1	0	18.63	19.54	23	-3.46
15	55990	3625	16QAM	1	74	18.50	19.41	23	-3.59
13	15 55990 3625	3023	IUQAW	36	18	17.30	18.21	23	-4.79
				75	0	17.25	18.16	23	-4.84
				1	0	18.72	19.63	23	-3.37
	56665	3692.5	16QAM	1	74	18.69	19.60	23	-3.40
	30003	3092.3		36	18	17.49	18.40	23	-4.60
				75	0	17.43	18.34	23	-4.66
				1	0	18.01	18.92	23	-4.08
	55315	3557.5	64QAM	1	74	17.94	18.85	23	-4.15
	33313	3337.3	0+Q/IVI	36	18	16.73	17.64	23	-5.36
				75	0	16.60	17.51	23	-5.49
				1	0	17.72	18.63	23	-4.37
15	55990	3625	64QAM	1	74	17.70	18.61	23	-4.39
10	00000	3023	OTQ/ (IVI	36	18	16.68	17.59	23	-5.41
				75	0	16.61	17.52	23	-5.48
				1	0	17.73	18.64	23	-4.36
	56665	3692.5	64QAM	1	74	17.75	18.66	23	-4.34
	00000	0002.0	0 100/11/1	36	18	16.54	17.45	23	-5.55
				75	0	16.48	17.39	23	-5.61
				1	0	14.41	15.32	23	-7.68
	55315	3557.5	256QAM	1	74	14.38	15.29	23	-7.71
	00010	0007.0	200 W/ (IVI	36	18	14.22	15.13	23	-7.87
				75	0	14.21	15.12	23	-7.88
				1	0	14.46	15.37	23	-7.63
15 5	55990	3625	256QAM	1	74	14.31	15.22	23	-7.78
	33300	3320	20030/1111	36	18	14.28	15.19	23	-7.81
				75	0	14.26	15.17	23	-7.83
				1	0	14.36	15.27	23	-7.73
	56665	3692.5	256QAM	1	74	14.34	15.25	23	-7.75
	00000	0002.0	200 Q/ \(\v)	36	18	14.31	15.22	23	-7.78
				75	0	14.27	15.18	23	-7.82

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Page: 28 of 96

Antenna	gain (dBi)	0.91							
			LTE Band 48	3_Uplin	k freque	ncy band : 3550	to 3700 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MH:
				1	0	18.20	19.11	23	-3.89
	EE040	2500	ODOK	1	99	18.16	19.07	23	-3.93
	55340	3560	QPSK	50	25	17.11	18.02	23	-4.98
				100	0	17.08	17.99	23	-5.01
				1	0	18.10	19.01	23	-3.99
20	55990	3625	QPSK	1	99	18.08	18.99	23	-4.01
20	55990	3023	QF3N	50	25	17.00	17.91	23	-5.09
				100	0	16.99	17.90	23	-5.10
				1	0	18.21	19.12	23	-3.88
	56640	3690	QPSK	1	99	18.17	19.08	23	-3.92
	30040	3090	QP5K	50	25	17.27	18.18	23	-4.82
				100	0	17.14	18.05	23	-4.95
				1	0	17.28	18.19	23	-4.81
	FF040	2500	400 4 14	1	99	17.35	18.26	23	-4.74
	55340	3560	16QAM	50	25	16.14	17.05	23	-5.95
				100	0	16.08	16.99	23	-6.01
				1	0	17.27	18.18	23	-4.82
00	55000	2005	400414	1	99	17.21	18.12	23	-4.88
20	55990	3625	16QAM	50	25	16.07	16.98	23	-6.02
				100	0	15.97	16.88	23	-6.12
				1	0	17.37	18.28	23	-4.72
	50040	2000	400444	1	99	17.34	18.25	23	-4.75
	56640	3690	16QAM	50	25	16.22	17.13	23	-5.87
				100	0	16.14	17.05	23	-5.95
				1	0	16.67	17.58	23	-5.42
	55040	2500	040414	1	99	16.60	17.51	23	-5.49
	55340	3560	64QAM	50	25	15.27	16.18	23	-6.82
				100	0	15.21	16.12	23	-6.88
				1	0	16.37	17.28	23	-5.72
00	55000	2005	040414	1	99	16.46	17.37	23	-5.63
20	55990	3625	64QAM	50	25	15.33	16.24	23	-6.76
				100	0	15.28	16.19	23	-6.81
				1	0	16.47	17.38	23	-5.62
	50040	2000	646444	1	99	16.38	17.29	23	-5.71
	56640	3690	64QAM	50	25	15.34	16.25	23	-6.75
				100	0	15.31	16.22	23	-6.78
				1	0	13.15	14.06	23	-8.94
	55040	2500	0500 444	1	99	12.92	13.83	23	-9.17
	55340	3560	256QAM	50	25	13.02	13.93	23	-9.07
				100	0	13.06	13.97	23	-9.03
				1	0	13.22	14.13	23	-8.87
	55000	2025	0500 ***	1	99	13.00	13.91	23	-9.09
20	55990	90 3625	256QAM	50	25	13.14	14.05	23	-8.95
	20 00000			100	0	13.02	13.93	23	-9.07
				1	0	13.15	14.06	23	-8.94
	50010	0000	0500	1	99	12.96	13.87	23	-9.13
	56640	3690	256QAM	⊢ <u>·</u>		12.00	· · · ·	l	

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50

100

25

0

12.99

13.02

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13.90

13.93

23

-9.10

-9.07



Page: 29 of 96

5G	NR Band	n48_part96: 355	0 to 3700 N	/IHz	Condu	cted Average	(dBm)	EIRP (dBm)				
	Antenna Gain(dBi) 0.91			n4	Channel (A	ARFCH)/ Frequ	ency(MHz)	Channel (A	Channel (ARFCH)/ Freqency(MHz)			
P	intenna G	ain(ubi)	0.91		Low	Mid	High	Low	Mid	High		
BW	SCS	Modulation	RB	RB	637000	641668	646332	637000	641668	646332		
(MHz)	(kHz)	Iviodulation	Allocation	Offset	3555	3625.02	3694.98	3555	3625.02	3694.98		
			1	1	21.25	21.48	21.26	22.16	22.39	22.17		
		DFT-s PI/2	1	22	21.33	21.11	21.13	22.24	22.02	22.04		
		BPSK	12	6	21.42	21.15	21.24	22.33	22.06	22.15		
			24	0	20.78	20.59	20.71	21.69	21.50	21.62		
		DFT-s QPSK	1	1	21.20	21.27	21.23	22.11	22.18	22.14		
			1	22	21.16	21.07	21.15	22.07	21.98	22.06		
			12	6	21.39	21.16	21.22	22.30	22.07	22.13		
10	30		24	0	20.34	20.15	20.15	21.25	21.06	21.06		
		DFT-s 16QAM	1	1	20.31	20.35	20.38	21.22	21.26	21.29		
		DFT-s 64QAM	1	1	18.97	18.91	18.91	19.88	19.82	19.82		
		DFT-s 256QAM	1	1	17.02	17.06	17.04	17.93	17.97	17.95		
		CP QPSK	1	1	20.17	19.90	20.26	21.08	20.81	21.17		
		CP 16QAM	1	1	19.39	19.28	19.28	20.30	20.19	20.19		
		CP 64QAM	1	1	17.98	18.00	18.05	18.89	18.91	18.96		
		CP 256QAM	1	1	15.31	15.35	15.35	16.22	16.26	16.26		

5G	NR Band	n48_part96: 355	i0 to 3700 N	1Hz	Condu	cted Average	(dBm)		EIRP (dBm)	RFCH)/ Freqency(MHz) Mid High 641668 646166 3625.02 3692.49 22.27 21.93		
	ntonno C	nin/dDi\	0.0)1	Channel (A	ARFCH)/ Frequ	ency(MHz)	Channel (A	RFCH)/ Frequ	ency(MHz)		
P	Intenna G	airi(ubi)	0.8	0.91		Mid	High	Low	Mid	High		
BW	SCS	Modulation	RB	RB	637168	641668	646166	637168	641668	646166		
(MHz)	(kHz)	Modulation	Allocation	Offset	3557.52	3625.02	3692.49	3557.52	3625.02	3692.49		
			1	1	20.99	21.36	21.02	21.90	22.27	21.93		
		DFT-s PI/2 BPSK	1	36	21.28	21.00	21.06	22.19	21.91	21.97		
			18	9	21.29	21.03	21.06	22.20	21.94	21.97		
			36	0	20.84	20.66	20.56	Channel (ARFCH)/ Frequency (MHz) Low Mid High 66 637168 641668 646166 19 3557.52 3625.02 3692.49 2 21.90 22.27 21.93 3 22.19 21.91 21.97 3 22.20 21.94 21.97 3 21.75 21.57 21.47 3 21.93 22.22 22.06 22.20 22.08 21.92 3 22.21 22.03 21.96 3 21.23 20.99 20.99 3 21.20 21.18 21.16 3 19.48 19.46 19.59 3 17.65 17.65 17.67 3 20.55 20.68 20.61 3 20.16 20.11 20.11 3 18.28 18.28 18.30				
			1	1	21.02	21.31	21.15	21.93	22.22	22.06		
		DFT-s QPSK	1	36	21.29	21.17	21.01	22.20	Mid High 641668 646166 3625.02 3692.49 22.27 21.93 21.91 21.97 21.94 21.97 21.57 21.47 22.22 22.06 22.08 21.92 22.03 21.96 20.99 20.99 21.18 21.16 19.46 19.59 17.65 17.67 20.68 20.61 20.11 20.11 18.28 18.30			
		DI 1-5 QFOR	18	9	21.30	21.12	21.05	22.21	22.03	21.96		
15	30		36	0	20.32	20.08	20.08	21.23	20.99	20.99		
		DFT-s 16QAM	1	1	20.29	20.27	20.25	21.20	21.18	21.16		
		DFT-s 64QAM	1	1	18.57	18.55	18.68	19.48	19.46	19.59		
		DFT-s 256QAM	1	1	16.74	16.74	16.76	17.65	17.65	17.67		
		CP QPSK	1	1	19.64	19.77	19.70	20.55	20.68	20.61		
		CP 16QAM	1	1	19.25	19.20	19.20	20.16	20.11			
		CP 64QAM	1	1	17.37	17.37	17.39	18.28	18.28	18.30		
		CP 256QAM	1	1	14.26	14.28	14.34	15.17	15.19	15.25		

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Page: 30 of 96

5G	NR Band	l n48_part96: 355	0 to 3700 N	lHz	Condu	cted Average	(dBm)		EIRP (dBm)		
	untanna C	ain/alD:\	0.0	0.04		ARFCH)/ Frequ	ency(MHz)	Channel (ARFCH)/ Freqency(MHz)			
P	Intenna G	ain(ubi)	0.91		Low	Mid High		Low	Mid	High	
BW	SCS	Madulation	RB	RB	637334	641668	646000	637334	641668	646000	
(MHz)	(kHz)	Modulation	Allocation	Offset	3560.01	3625.02	3690	3560.01	3625.02	3690	
		DFT-s PI/2 BPSK	1	1	21.49	21.22	21.17	22.40	22.13	22.08	
			1	49	21.18	20.97	21.04	22.09	21.88	21.95	
			25	12	21.39	21.12	21.12	22.30	22.03	22.03	
			50	0	20.84	20.63	20.56	21.75	21.54	21.47	
			1	1	21.42	21.07	20.87	20.56 21.75 21.54 21.47	21.78		
		DFT-s QPSK	1	49	21.16	21.06	20.90	22.07	21.97	21.81	
		DF1-5 QF3K	25	12	21.40	21.17	21.05	22.31	22.08	21.96	
20	30		50	0	20.32	20.08	20.02	21.23	20.99	20.93	
		DFT-s 16QAM	1	1	20.18	20.17	20.18	21.09	21.08	21.09	
		DFT-s 64QAM	1	1	18.89	18.87	18.89	19.80	19.78	19.80	
		DFT-s 256QAM	1	1	16.66	16.68	16.67	17.57	17.59	17.58	
		CP QPSK	1	1	19.57	19.85	19.69	20.48	20.76	20.60	
		CP 16QAM	1	1	19.24	19.44	19.30	20.15	20.35	20.21	
		CP 64QAM	1	1	17.82	17.96	17.89	18.73	18.87	18.80	
		CP 256QAM	1	1	14.96	15.17	15.02	15.87	16.08	15.93	

5G	NR Band	n48_part96: 355	i0 to 3700 N	1Hz	Conducted	d Average (dB	m/10MHz)	EIF	RP (dBm/10M	Hz)
Δ	Antenna G	ain(dBi)	0.9	91	Channel (A	ARFCH)/ Frequ	ency(MHz)	Channel (A	RFCH)/ Frequ	ency(MHz)
I	EIRP Limit	(dBm)	23dBm/	10MHz	Low	Mid	High	Low	Mid	High
BW	SCS Modulation		RB	RB	637000	641668	646332	637000	641668	646332
(MHz)	(kHz)	Iviodulation	Allocation	Offset	3555	3625.02	3694.98	3555	3625.02	3694.98
			1	1	21.25	21.48	21.26	22.16	22.39	22.17
		DFT-s PI/2 BPSK	1	22	21.33	21.11	21.13	22.24	22.02	22.04
			12	6	21.42	21.15	21.24	22.33	22.06	22.15
			24	0	20.78	20.59	20.71	hcy(MHz) Channel (ARFCH)/ Freqency(MHz) High Low Mid High 646332 637000 641668 646332 3694.98 3555 3625.02 3694.98 21.26 22.16 22.39 22.17 21.13 22.24 22.02 22.04 21.24 22.33 22.06 22.15		
			1	1	21.20	21.27	21.23	22.11	nannel (ARFCH)/ Freqency(MHz) Low Mid High 87000 641668 646332 8555 3625.02 3694.98 2.16 22.39 22.17 2.24 22.02 22.04 2.33 22.06 22.15 1.69 21.50 21.62 2.11 22.18 22.14 2.07 21.98 22.06 2.30 22.07 22.13 1.25 21.06 21.06 1.22 21.26 21.29 9.88 19.82 19.82 7.93 17.97 17.95 1.08 20.81 21.17 0.30 20.19 20.19 8.89 18.91 18.96	22.14
		DFT-s QPSK	1	22	21.16	21.07	21.15		22.06	
		DI 1-3 QI OK	12	6	21.39	21.16	21.22	22.30	22.07	22.13
10	30		24	0	20.34	20.15	20.15	21.25	21.06	21.06
		DFT-s 16QAM	1	1	20.31	20.35	20.38	21.22	21.26	21.29
		DFT-s 64QAM	1	1	18.97	18.91	18.91	19.88	19.82	19.82
		DFT-s 256QAM	1	1	17.02	17.06	17.04	17.93	17.97	17.95
		CP QPSK	1	1	20.17	19.90	20.26	21.08	20.81	21.17
		CP 16QAM	1	1	19.39	19.28	19.28	20.30	20.19	
		CP 64QAM	1	1	17.98	18.00	18.05	18.89	18.91	18.96
		CP 256QAM	1	1	15.31	15.35	15.35	16.22	16.26	16.26

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Page: 31 of 96

5G	NR Band	l n48_part96: 355	0 to 3700 N	lHz	Conducted	d Average (dB	m/10MHz)	EIF	RP (dBm/10M	Hz)	
Δ	Antenna G	ain(dBi)	0.9	91	Channel (A	ARFCH)/ Frequ	ency(MHz)	Channel (A	RFCH)/ Frequ	ency(MHz)	
	EIRP Limit	nit (dBm) 23dBr		10MHz	Low	Mid	High	Low	Mid	High	
BW	SCS	Madulation	RB	RB	637168	641668	646166	637168	641668	646166	
(MHz)	(kHz)	Modulation	Allocation	Offset	3557.52	3625.02	3692.49	3557.52	3625.02	3692.49	
			1	1	19.23	19.60	19.26	20.14	20.51	20.17	
		DFT-s PI/2	DFT-s PI/2	1	36	19.52	19.24	19.30	20.43	20.15	20.21
		BPSK	18	9	19.53	19.27	19.30	20.44	20.18	20.21	
			36	0	19.08	18.90	18.80	19.99	19.81	19.71	
			1	1	19.26	19.55	19.26 20.14 20.51 20.17 19.30 20.43 20.15 20.21 19.30 20.44 20.18 20.21 18.80 19.99 19.81 19.71 19.39 20.17 20.46 20.30 19.25 20.44 20.32 20.16 19.29 20.45 20.27 20.20 18.32 19.47 19.23 19.23				
		DFT-s QPSK	1	36	19.53	19.41	19.25	20.44	20.32	20.16	
		DF1-5 QF3N	18	9	19.54	19.36	19.29	20.45	20.27	20.20	
15	30		36	0	18.56	18.32	18.32	19.47	19.23	19.23	
		DFT-s 16QAM	1	1	18.53	18.51	18.49	19.44	19.42	19.40	
		DFT-s 64QAM	1	1	16.81	16.79	16.92	17.72	17.70	17.83	
		DFT-s 256QAM	1	1	14.98	14.98	15.00	15.89	15.89	15.91	
		CP QPSK	1	1	17.88	18.01	17.94	18.79	18.92	18.85	
		CP 16QAM	1	1	17.49	17.44	17.44	18.40	18.35	18.35	
		CP 64QAM	1	1	15.61	15.61	15.63	16.52	16.52	16.54	
		CP 256QAM	1	1	12.50	12.52	12.58	13.41	13.43	13.49	

5G	NR Band	n48_part96: 355	0 to 3700 N	lHz	Conducted	d Average (dB	m/10MHz)	EIF	RP (dBm/10M	Hz)
Δ	Antenna G	ain(dBi)	0.9	91	Channel (A	ARFCH)/ Frequ	ency(MHz)	Channel (A	RFCH)/ Frequ	ency(MHz)
	EIRP Limit	(dBm)	23dBm/	10MHz	Low	Mid	High	Low	Mid	High
BW	SCS	Modulation	RB	RB	637334	641668	646000	637334	641668	646000
(MHz)	(kHz)	Modulation	Allocation	Offset	3560.01	3625.02	3690	3560.01	3625.02	3690
			1	1	18.48	18.21	18.16	19.39	19.12	19.07
		DFT-s PI/2	1	49	18.17	17.96	18.03	19.08	18.87	18.94
		BPSK	25	12	18.38	18.11	18.11	19.29	19.02	19.02
			50	1 49 18.17 17.96 18.03 19.08 18.87 18.92 25 12 18.38 18.11 18.11 19.29 19.02 19.02 50 0 17.83 17.62 17.55 18.74 18.53 18.46 1 1 18.41 18.06 17.86 19.32 18.97 18.77 1 49 18.15 18.05 17.89 19.06 18.96 18.80	18.46					
			1	1	18.41	18.06	17.86	19.32	18.97	18.77
		DFT-s QPSK	1	49	18.15	18.05	17.89	19.06	Mid High 641668 646000 3625.02 3690 19.12 19.07 18.87 18.94 19.02 19.02 18.53 18.46 18.97 18.77	
		Di 1-3 Qi Sik	25	12	18.39	18.16	18.04	19.30	19.07	18.95
20	30		50	0	17.31	17.07	17.01	18.22	17.98	17.92
		DFT-s 16QAM	1	1	17.17	17.16	17.17	18.08	18.07	18.08
		DFT-s 64QAM	1	1	15.88	15.86	15.88	16.79	16.77	16.79
		DFT-s 256QAM	1	1	13.65	13.67	13.66	14.56	14.58	14.57
		CP QPSK	1	1	16.56	16.84	16.68	17.47	17.75	17.59
		CP 16QAM	1	1	16.23	16.43	16.29	17.14	17.34	17.20
		CP 64QAM	1	1	14.81	14.95	14.88	15.72	15.86	15.79
		CP 256QAM	1	1	11.95	12.16	12.01	12.86	13.07	12.92

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Page: 32 of 96

8 MAXIMUM POWER DENSITY MEASUREMENT

8.1 Standard Applicable

FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective iso tropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum PSD (dBm/MHz)
End User Device	n/a
Category A CBSD	20
Category B CBSD ¹	37

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

- (c) Power management. CBSDs and End User Devices shall limit their operating power to the minimum necessary for successful operations
 - (1) CBSDs must support transmit power control capability and the capability to limit their maximum EIRP and the maximum EIRP of associated End User Devices in response to instructions from an SAS.
 - (2) End User Devices shall include transmit power control capability and the capability to limit their maximum EIRP in response to instructions from their associated CBSDs.

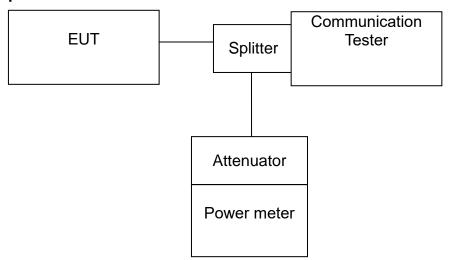
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Page: 33 of 96

Test Set-up



Note: Measurement setup for testing on Antenna connector

8.3 **Measurement Procedure**

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (often 1 MHz).
- 4. Set VBW ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- 7. Sweep time = auto couple.
- 8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
- 10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

8.4 **Measurement Result**

N/A, this is an End user device.

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Page: 34 of 96

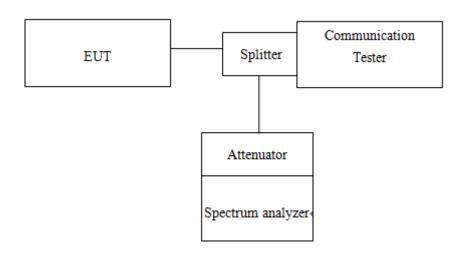
OCCUPIED BANDWIDTH MEASUREMENT

9.1 **Standard Applicable**

FCC Part 2.1049(h)

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.

9.2 **Test Set-up**



9.3 **Measurement Procedure**

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer. RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW ≥ 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

Measurement Result 9.4

	LTE BAND 48 Channel bandwidth: 5MHz											
Freq.	СН		99% BW (MHz) 26 dB BW (MHz)									
(MHz)	CIT	QPSK	QPSK 16QAM 64QAM 256QAM QPSK 16QAM 64Q									
3552.5	55265	4.4949	4.4809	4.4910	4.4945	5.306	5.066	5.135	4.978			
3625.0	55990	4.4844	.4844 4.4839 4.4748 4.4953 4.982 5.134 4.958 5									
3697.5	56715	4.4718	4.4718 4.4730 4.4858 4.4683 5.049 5.058 5.056 5.043									

	LTE BAND 48 Channel bandwidth: 15MHz											
Freq.	СН	99% BW (MHz) 26 dB BW (MHz)										
(MHz)	CIT	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM			
3557.5	55315	13.4400	13.4570	13.4490	13.4770	14.710	14.870	15.890	15.090			
3625.0	55990	13.3910	13.4640	13.4070	13.4760	14.360	13.960	14.370	14.070			
3692.5	56665	13.3930	3.3930 13.4370 13.4880 13.4640 14.210 15.330 15.360 1									

	LTE BAND 48 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz) 26 dB BW (MHz)									
(MHz)	OH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM		
3555.0	55290	8.9733	8.9800	9.0032	9.0136	10.110	10.190	10.630	10.050		
3625.0	55990	8.9555	8.9355	8.9556	8.9547	9.578	9.319	9.532	9.547		
3695.0	56690	8.9272	3.9272 8.9891 8.9659 8.9451 9.490 9.514 9.663 9.42								

	LTE BAND 48 Channel bandwidth: 20MHz											
Freq.	СН		99% BW (MHz) 26 dB BW (MHz)									
(MHz)	OH	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM			
3650.0	55340	17.9130	17.9220	17.9220	17.9300	19.540	19.510	19.610	20.160			
3625.0	55990	17.9820	17.8420	17.8950	17.8590	19.180	18.700	18.650	18.820			
3690.0	56640	17.9240	7.9240 17.9210 17.8950 17.8670 18.770 18.660 19.020 2									

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Page: 35 of 96

	5G NR BAND n48_Part96 Channel bandwidth: 10MHz(3550 to 3700 MHz)											
						SCS 30 kH	•					
_			0.			_3C3 30 KH	Z	00	-ID DIA/AII	I_\		
Freq.	CH		9:	9% BW (MH	Z)	ı		ı	dB BW (MF			
(MHz)		BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM	
3555	637000	8.6137	8.6509	8.6182	8.6421	8.6033	9.8730	9.9210	10.0500	9.8660	9.7240	
3625.02	641668	8.5262	8.5853	8.5443	8.5205	8.5739	9.5120	9.4380	9.3840	9.0890	9.4330	
3694.98	646332	8.5409	8.5423	8.5234	8.6167	8.5574	9.5720	9.0480	9.4030	9.1730	9.1400	
5G NR BAND n48_Part96 Channel bandwidth: 15MHz(3550 to 3700 MHz)												
DFT-S-OFDM_SCS 30 kHz												
Freq.	CLI	99% BW (MHz)					26 dB BW (MHz)					
(MHz)	CH	BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM	
3557.52	637168	12.9150	12.9390	12.9330	12.9070	12.9130	14.1600	14.2400	14.3900	14.3700	14.4800	
3625.02	641668	12.8100	12.9200	12.8150	12.8370	12.8870	13.6600	13.8300	13.8700	14.1000	13.4600	
3692.49	646166	12.8340	12.9220	12.8650	12.9090	12.8300	13.6800	13.8200	13.6200	13.7100	14.1700	
			5G NR BAN	D n48_Part9	6 Channel b	andwidth: 20	MHz(3550 to	3700 MHz)				
				D	FT-S-OFDM	_SCS 30 kH	lz					
Freq.	СН		99	9% BW (MH	z)			26	dB BW (MF	łz)		
(MHz)	СП	BPSK	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM	
3560.01	637334	17.8650	17.9330	17.8810	17.9020	17.8790	19.4400	19.5800	19.4700	19.4700	19.4800	
3625.02	641668	17.8180	17.8940	17.8130	17.8600	17.9210	18.6100	19.0000	18.6000	18.9700	19.0500	
3690	646000	17.9300	17.9380	17.7710	17.9440	17.9140	18.9800	18.6900	18.9600	18.7900	18.7400	

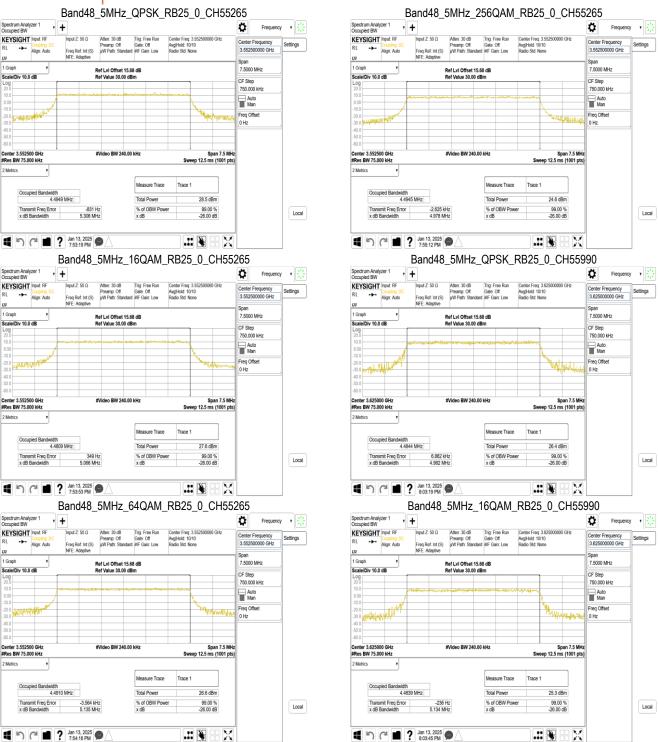
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Page: 36 of 96



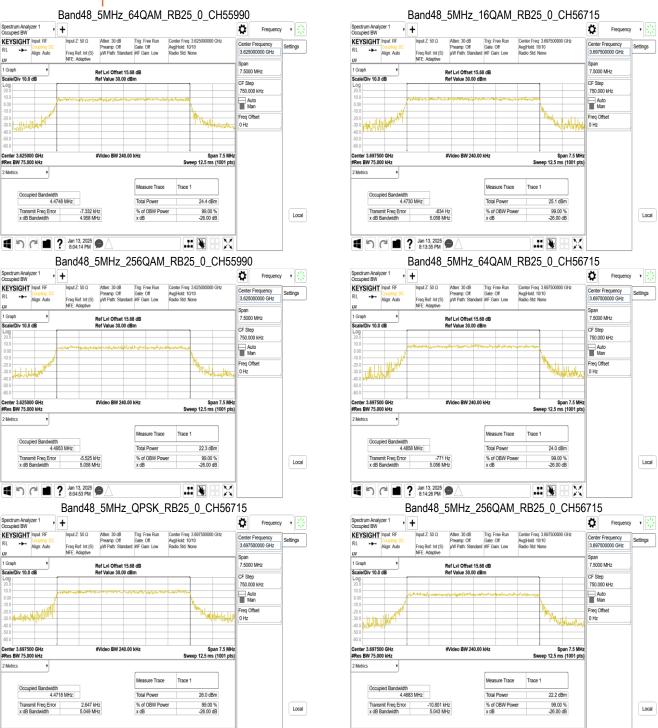
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Page: 37 of 96



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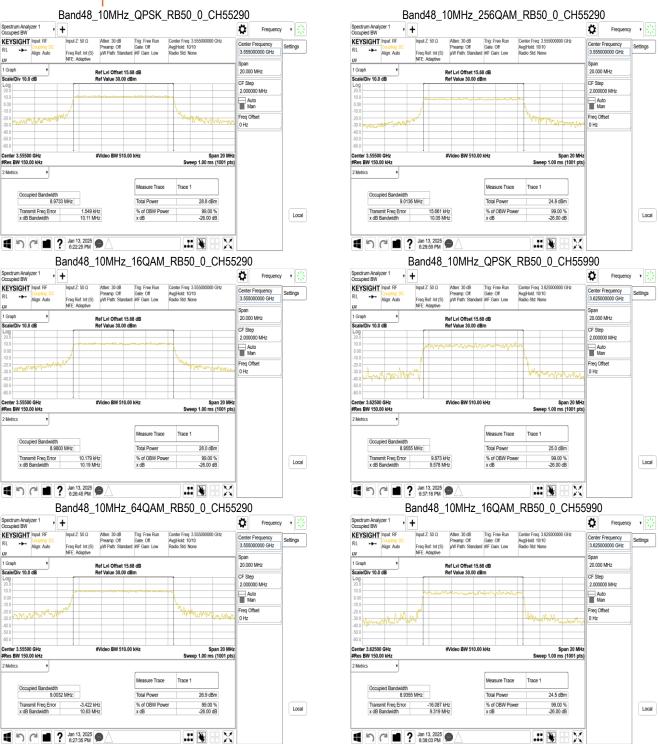
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Page: 38 of 96



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Page: 39 of 96



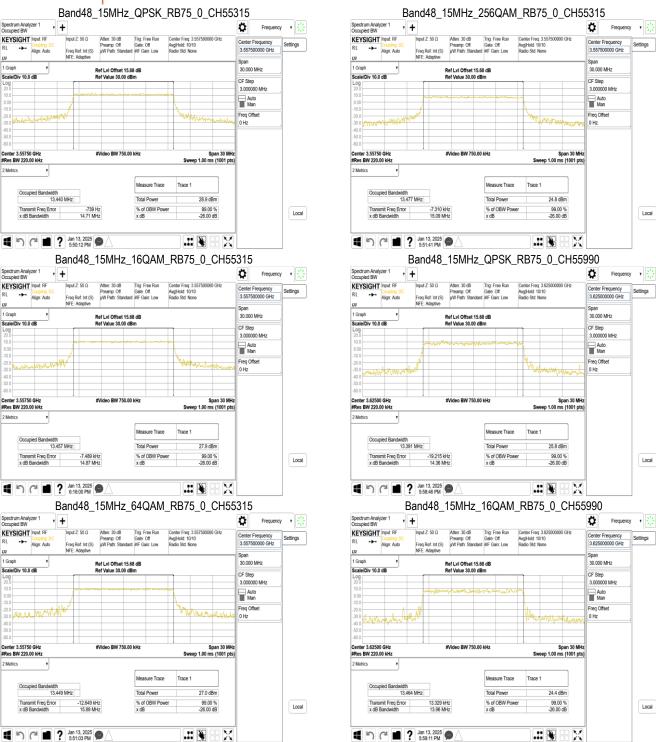
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Page: 40 of 96



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Page: 41 of 96



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Page: 42 of 96



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Page: 43 of 96



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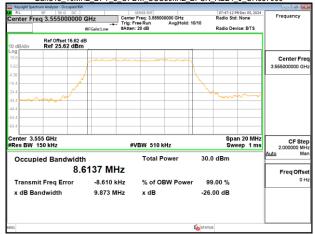
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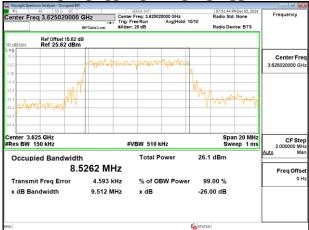


Report No.: TERF2410003184ER Page: 44 of 96

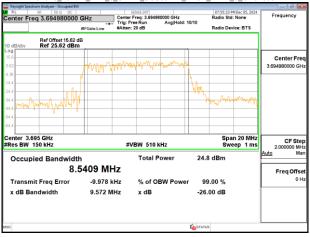




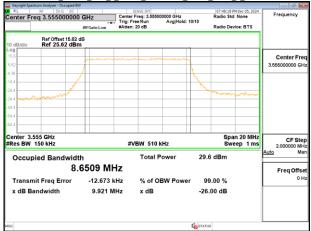




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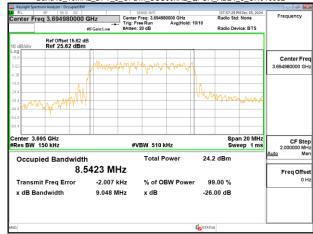
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Band48_10MHz_DFT_s_OFDM_SCS30kHz_QPSK_RB24_0_CH641668



Band48 10MHz DFT s OFDM SCS30kHz QPSK RB24 0 CH646332



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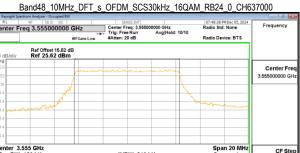
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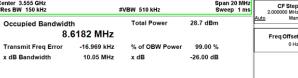
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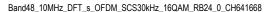
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Page: 45 of 96

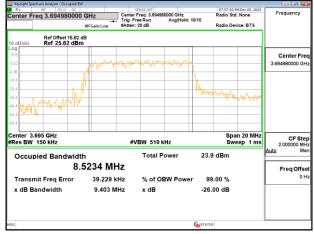




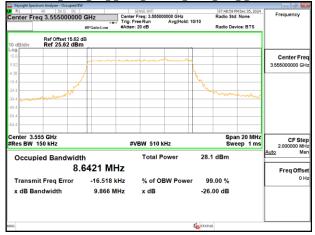




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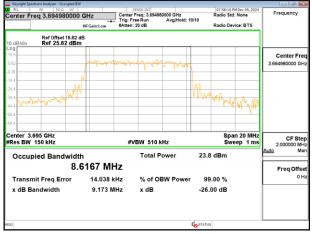
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Band48_10MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB24_0_CH641668



Band48_10MHz_DFT_s_OFDM_SCS30kHz_64QAM_RB24_0_CH646332



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