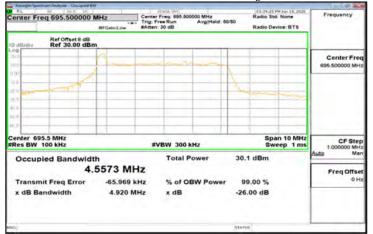
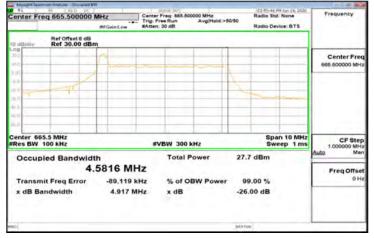


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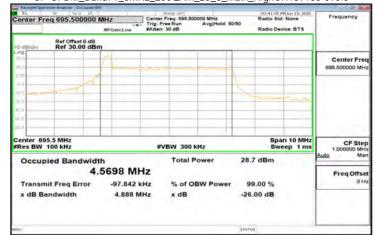
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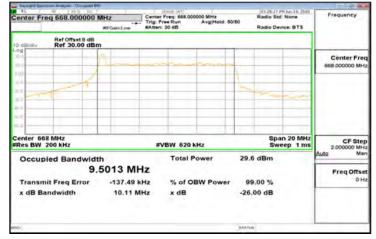
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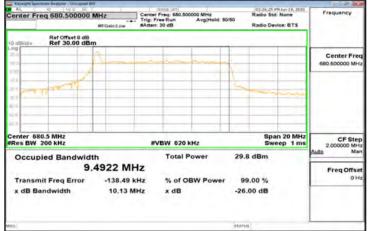
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CP-OFDM_Band71_10MHz_QPSK_52_0_Main_LowCH133600-668



CP-OFDM_Band71_10MHz_QPSK_52_0_Main_MidCH136100-680.5



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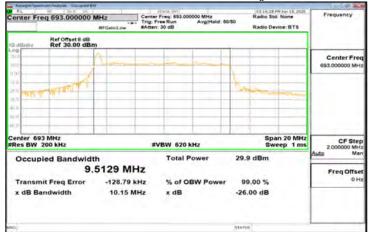
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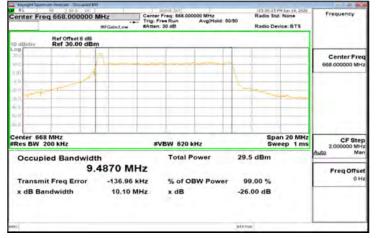
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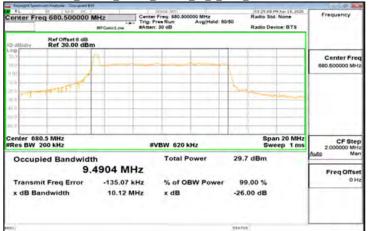
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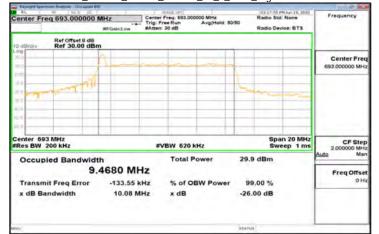
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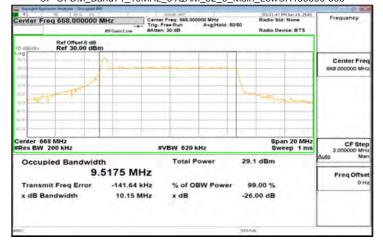
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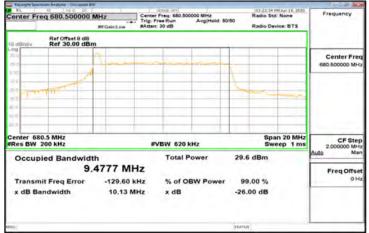
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CP-OFDM_Band71_10MHz_64QAM_52_0_Main_LowCH133600-668



CP-OFDM_Band71_10MHz_64QAM_52_0_Main_MidCH136100-680.5



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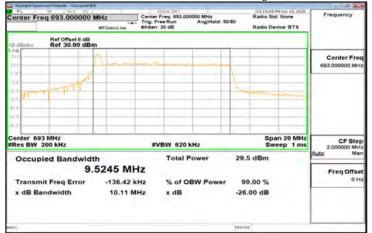
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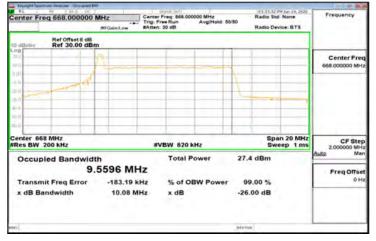
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CP-OFDM_Band71_10MHz_64QAM_52_0_Main_HighCH138600-693



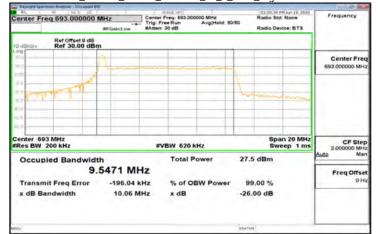
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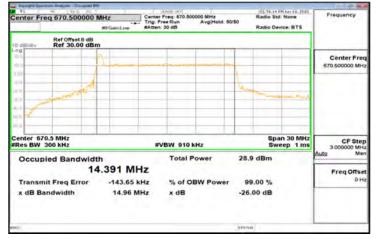
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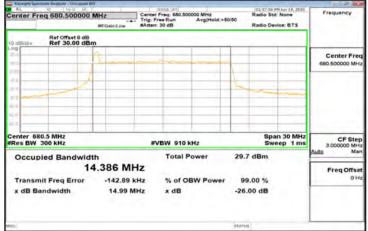
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CP-OFDM_Band71_15MHz_QPSK_79_0_Main_LowCH134100-670.5



CP-OFDM_Band71_15MHz_QPSK_79_0_Main_MidCH136100-680.5



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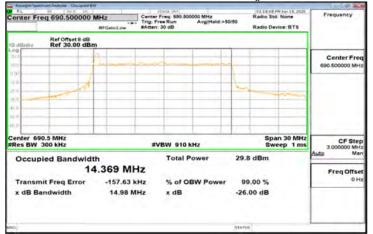
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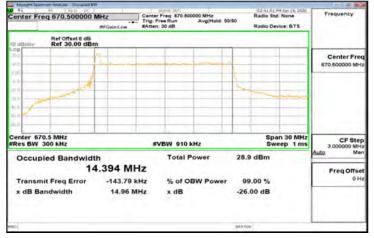
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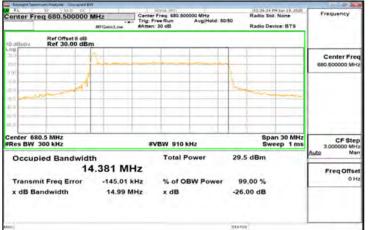
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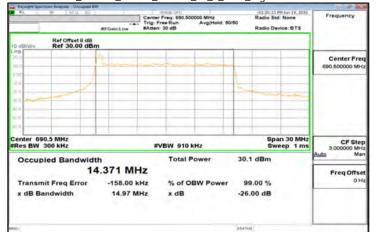
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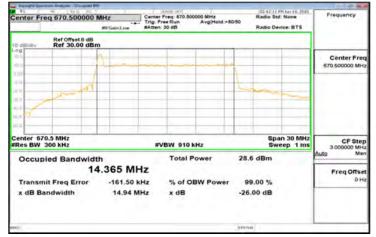
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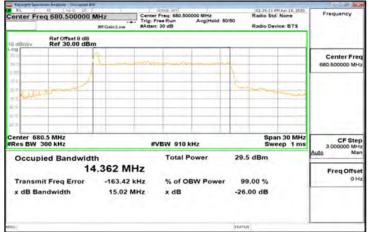
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CP-OFDM_Band71_15MHz_64QAM_79_0_Main_MidCH136100-680.5



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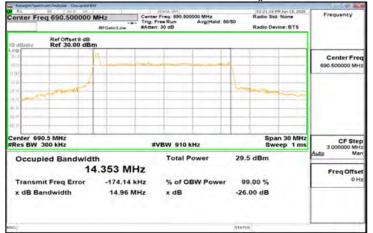
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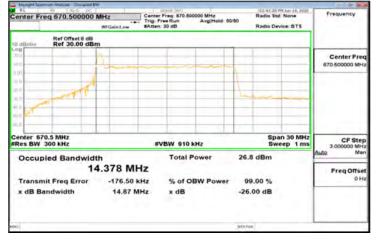
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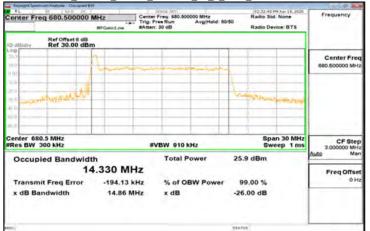
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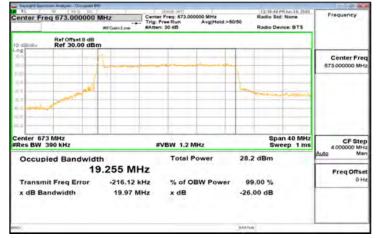
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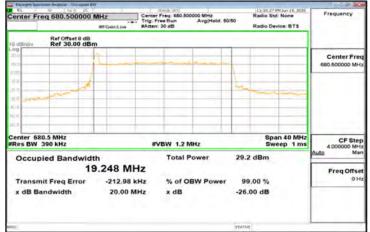
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CP-OFDM_Band71_20MHz_QPSK_106_0_Main_LowCH134600-673



CP-OFDM_Band71_20MHz_QPSK_106_0_Main_MidCH136100-680.5



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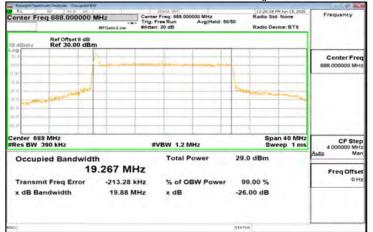
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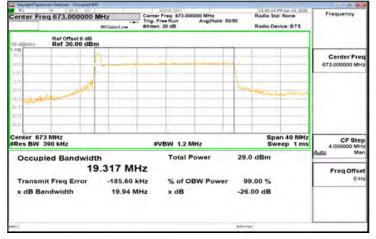
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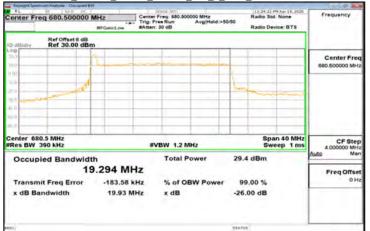
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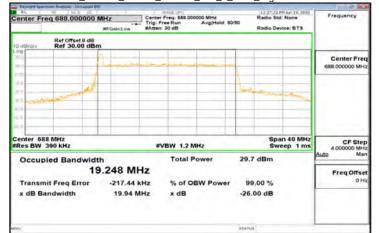
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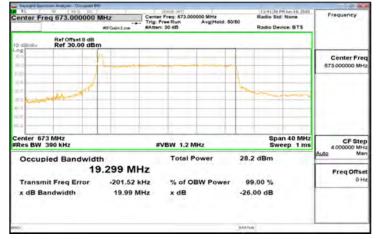
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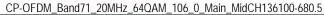


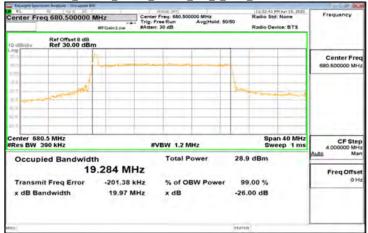
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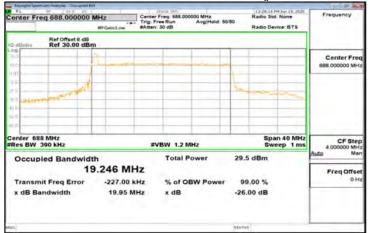
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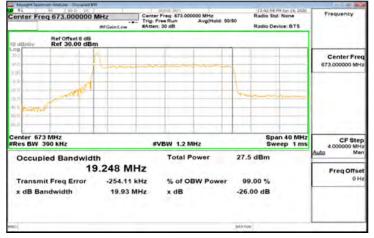
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CP-OFDM_Band71_20MHz_256QAM_106_0_Main_LowCH134600-673



CP-OFDM_Band71_20MHz_256QAM_106_0_Main_MidCH136100-680.5

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Center 680.5 MHz #Res BW 390 kHz		#VBW 1.2 MHz	Span 40 MHz Sweep 1 ms	CF Step	
FRES BW 390 KHZ		#VBW 1.2 MH2	sweep 1 ms	4.000000 MHz Auto Man	
Occupied Bandw	ldth	Total Power	27.3 dBm	CIMER HEAT	
	19.250 MH	z		Freq Offset	
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CP-OFDM_Band71_20MHz_256QAM_106_0_Main_HighCH137600-688

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x dB Ban	dwidth	19.92 MHz	x dB		-26.00 dB		

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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-130 §6.6, RSS-199 §4.5

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

FCC §27.53(c) (5) & FCC §27.53(g) for LTE B71

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

ISED RSS-130 §4.7.1 for LTE B71

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

FCC §27.53(h)(3) for LTE B4, 66

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RSS-139 §6.6 for LTE B4, 66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

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FCC §27.53(m) (4) (6) for LTE B41

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RSS-199 §4.5 for LTE B41

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

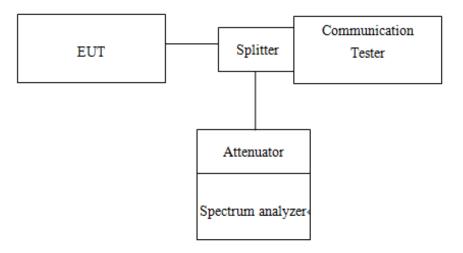
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8.2 Test SET-UP



8.3 Measurement Procedure

8.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

8.3.2 Band Edge or Mask

- 1. To connect Antenna Port of EUT to Spectrum.
- The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. The only N41 Band used RBW offset method and describe in C63.26 section 5.7.2 the correction factor is following:

Corrcrtion factor = 10 log [(reference bandwidth 1MHz) / (measurement bandwidth 100KHz) =10dB

- 4. Allow trace to fully stabilize
- 5. Repeat above procedures until all default test channel measured were complete.

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8.4 Measurement Equipment Used

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020		
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021		
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020		
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021		
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021		
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021		

8.5 **Measurement Result:**

Refer to next pages.

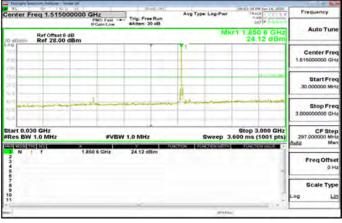
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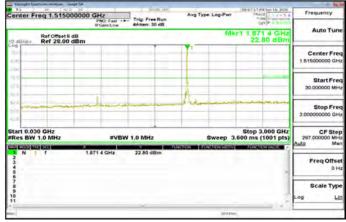


Out of Band Emission

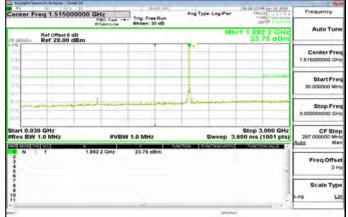
DFT-s-OFDM Pi/2_30MHz~3GHz_Band2_20MHz_BPSK_1_0_LowCH372000-1860



DFT-s-OFDM Pi/2_30MHz~3GHz_Band2_20MHz_BPSK_1_0_MidCH376000-1880



DFT-s-OFDM Pi/2_30MHz~3GHz_Band2_20MHz_BPSK_1_0_HighCH380000-1900



DFT-s-OFDM Pi/2_3GHz~26GHz_Band2_20MHz_BPSK_1_0_LowCH372000-1860



DFT-s-OFDM Pi/2_3GHz~26GHz_Band2_20MHz_BPSK_1_0_MidCH376000-1880



DFT-s-OFDM Pi/2_3GHz~26GHz_Band2_20MHz_BPSK_1_0_HighCH380000-1900

- Kayaght (permit Analyse - Sov	um S.R				1919
Center Freq 11.5000	00000 GHz	Trig: Free Run	Avg Type: Log-Pwy	TRACE	Frequency
Ref Offset B c	#GeinLow 18	#Atten: 30 dB	ĥ	41.85 dBm	Auto Tune
lo ablav Ref 28.00 c	IBM				Center Freq 11 50000000 GHz
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- linet.	laser starting and	-intering			Stop Freq 20.000000000 GHz
Start 3.000 GHz #Res BW 1.0 MHz	#VB	W 1.0 MHz		Stop 20.000 GHz 8.33 ms (1001 pts)	CF Step 1.700000000 GHu Auto Mar
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DFT-s-OFDM Pi/2_30MHz~3GHz_Band5_20MHz_BPSK_1_0_LowCH166800-834

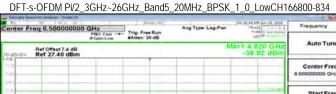


DFT-s-OFDM Pi/2_30MHz~3GHz_Band5_20MHz_BPSK_1_0_Mid CH167300-836.5



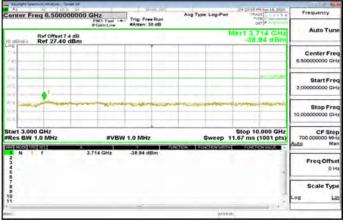
DFT-s-OFDM Pi/2_30MHz~3GHz_Band5_20MHz_BPSK_1_0_HighCH167800-839

M.					without Analyzer's Swept	
Frequency	19402 PH has LA, 2020	Avg Type: Log-Pwr	ig: Free Run	PNC Fast **	req 1.515000	Center Fi
Auto Tun	43.55 dBm	Mkr			Ref Offset 7.4 d	yo aliav
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Stop Fre 3.000000000 G		Anton		Arene		
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Scale Typ						6 7 8 9 10
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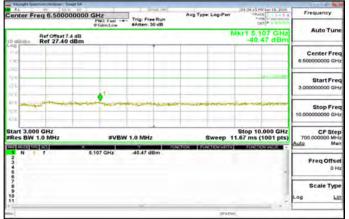


3.000000000 GHz				211
Stop Freq 10.00000000 GHz				Art and a second second
700,000000 MHz	Stop 10.000 GHz Sweep 11.67 ms (1001 pts)	W 1.0 MHz	#VBI	Start 3.000 GHz #Res BW 1.0 MHz
Auto Man	United Telefort (Tele	-39.92 dBm	4 820 GHz	International Active Ac
Freq Offset 0 Hz				2 2 4 5
Scale Type				7
Log Lin				9 10 11
				-

DFT-s-OFDM Pi/2_3GHz~26GHz_Band5_20MHz_BPSK_1_0_Mid CH167300-836.5



DFT-s-OFDM Pi/2_3GHz~26GHz_Band5_20MHz_BPSK_1_0_HighCH167800-839



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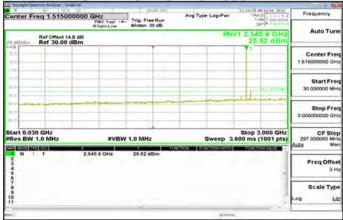
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DFT-s-OFDM Pi/2_30MHz~3GHz_Band41_100MHz_BPSK_1_0_LowCH509202-2546.01

Annual Sector Annual -						
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200 200		in the second	Start Fre 30 000000 MH			
45.0 200		and the second	Stop Fre 3.00000000 GH			
Start 0.030 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)	CF Step 297,000000 MH			
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6 7 8 9 10			Scale Type			
*		artistica ×				

DFT-s-OFDM Pi/2_30MHz~3GHz_Band41_100MHz_BPSK_1_0_MidCH518598-2592.99

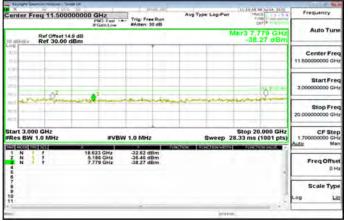


DFT-s-OFDM Pi/2_30MHz~3GHz_Band41_100MHz_BPSK_1_0_HighCH528000-2640

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Stop Fre 3.00000000 GH							
CF Ster 297.000000 MH Audo Ma		start 0.030 GHz Stop 3.000 GHz IRes BW 1.0 MHz IVBW 1.0 MHz Sweep 3.600 ms (1001 pts)					
Freq Offse	-	anda Ingelosiadur	24.92 dBm	2.590 1 GHz	f	1 N 2 3 4 5	
Scale Typ						5 7 8 9 10	
		gr hitse				*	

Frequency	Type: Log-Par Tweet Control of the state	Trig: Free Run	PNO. Fast	req 11.500	enter F
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Stop Fre 20.00000000 GH	and an an and a state of the second state of t	**********			
CF Ste 1.700000000 GH	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	0 MHz	#VBV	0 GHz 1.0 MHz	tart 3.00 Res BW
Audo Ma Freq Offse 0 H	- Landboot weeks	-32.32 dBm -36.76 dBm -37.59 dBm	19.201 GHz 6.092 GHz 7.638 GHz		1 N 2 N 3 N 4
Scale Typ	1				6 7 8 9

DFT-s-OFDM Pi/2_3GHz~26GHz_Band41_100MHz_BPSK_1_0_MidCH518598-2592.99



DFT-s-OFDM Pi/2_3GHz~26GHz_Band41_100MHz_BPSK_1_0_HighCH528000-2640

Arysight Spannin Anatyser: Swept	5a				11 2 11
Center Freq 11.50000	PND Fast +*	Trig: Free Run	Avg Type Log-Per	11-23-44 M/ 34/64, 2031 19402 4/ 5 4 17/10	Frequency
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01 02	3				Start Free 3.000000000 GH
10.0	- and a star				Stop Free 20.000000000 GH
Start 3.000 GHz Res BW 1.0 MHz	#VBV	V 1.0 MHz		Stop 20.000 GHz .33 ms (1001 pts)	CF Step 1 700000000 GH
	3.748 GHz 5.280 GHz 7.920 GHz	-31.30 dBm -38.01 dBm -38.01 dBm	ACTOR JUNCTONIATION	-	Freq Offset
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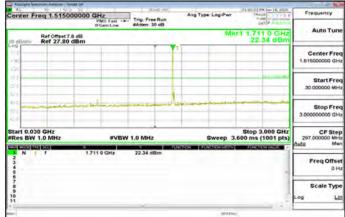
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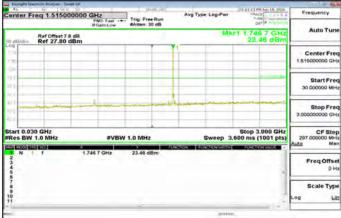
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DFT-s-OFDM Pi/2_30MHz~3GHz_Band66_20MHz_BPSK_1_0_LowCH344000-1720



DFT-s-OFDM Pi/2_30MHz~3GHz_Band66_20MHz_BPSK_1_0_MidCH349000-1745



DFT-s-OFDM Pi/2_30MHz~3GHz_Band66_20MHz_BPSK_1_0_HighCH354000-1770

Center Freq 1.515000000 GHz	[we note 1	Avg Type: Log-Pwr	TRACE	Frequency
PND: Fast UrGain.Low	#Atten: 30 dB		Dist + Providence	Auto Tun
Ref Offset 7.8 dB Ref 27.80 dBm		Mkr1	1.761 5 GHz 23.63 dBm	Auto Tune
09 174 1.30	3			Center Free 1 516000000 GH
01.0 (74)			P1	Start Free 30,000000 MH
er and a second s	-All-	and a second		Stop Free 3.000000000 GH
Start 0.030 GHz Res BW 1.0 MHz #VB	W 1.0 MHz	Sweep 3.60	Stop 3.000 GHz 0 ms (1001 pts)	
N f 1,761 S GHz	23.43 dBm	or Jacobaranal		
6 7 8 9				
Automatical Planet			0 ms (1001 pts)	297,000000 MHz Audo Man Freq Offset 0 Hz Scale Type Log Lin

enter Freq 11.5000	PNO: Fast	Trig Free Run #Atten: 30 dB	Avg Type: Log-Pwr	CT 20 25 PM for 16, 200 TRADE TO B 4 TUSE A descent	Frequency	
Ref Offset 7.8 dB Mkr3 5.160 GHz 10 d0/dv Ref 27.80 dBm 40.60 dBm						
eg 11:4 7:50					Center Fred 11.500000000 GHz	
				01	Start Free 3.000000000 GHa	
or Canadana					Stop Free 20.00000000 GH	
Res BW 1.0 MHz	#VBI	W 1.0 MHz	Sweep 28	Stop 20.000 GHz .33 ms (1001 pts)	CF Step 1.700000000 GH	
	19.099 GHz 3.440 GHz 6.160 GHz	-38 33 dBm 46 27 dBm 40 60 dBm	лсток [Листоньюти]		Audiz Mar Freq Offset 0 Ha	
6 7 9					Scale Type	

DFT-s-OFDM Pi/2_3GHz~26GHz_Band66_20MHz_BPSK_1_0_MidCH349000-1745



DFT-s-OFDM Pi/2_3GHz~26GHz_Band66_20MHz_BPSK_1_0_HighCH354000-1770

Anyoght (permain realition) 5	wept SA	-		and south the second second	
Center Freq 11.500	000000 GHz	Trig: Free Run	Avg Type: Log-Pwy	TRACE	Frequency
Ref Offset 7	#Gain1.ow	#Atten: 30 dB		Ikr3 5.310 GHz	Auto Tune
o atlativ Ref 27.80				-43.69 dBm	
10					Center Free 11.500000000 GH
200 12.2 21				CALL LANSING	Start Free
S. Sunti	handre			un l'an	Stop Free
Start 3.000 GHz				Stop 20.000 GHz	20.00000000 GH
Res BW 1.0 MHz	#VBW 1.0 MHz			8.33 ms (1001 pts)	1,700000000 GH
	18.601 GHz 3.640 GHz 6.310 GHz	-38.57 dBm -46.44 dBm -43.69 dBm			Freq Offse 0 H
6 7 8 9					Scale Type
10					Log Li
ma l			UPARS		

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Report No.: ER/2020/30085-01 Page 137 of 212



DFT-s-OFDM Pi/2_30MHz~3GHz_Band71_20MHz_BPSK_1_0_LowCH134600-673

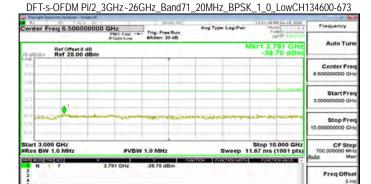


DFT-s-OFDM Pi/2_30MHz~3GHz_Band71_20MHz_BPSK_1_0_MidCH136100-680.5



DFT-s-OFDM Pi/2_30MHz~3GHz_Band71_20MHz_BPSK_1_0_HighCH137600-688

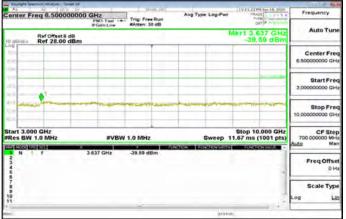
-					· Periodic Cherustran Services : 2
Frequency Auto Tune	THE DET P	Avg Type: Log-Pwr	Trig: Free Run	PND Fast +4	Center Freq 1.5150
	3 2.064 0 GHz -42 55 dBm	Мкл	#Atten: 30 dB		Ref Offset 6 Ref 28.00
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Start Free 30,000000 MH	11				2000 12:0 07:0
Stop Free 3.000000000 GH	and and the state of the second		Que ou		8-0 010 400
CF Ste 297,000000 MH	Stop 3.000 GHz 500 ms (1001 pts)	Start 0.030 GHz Res BW 1.0 MHz			
Freq Offse 0 H	-		24.98 dBm 45.59 dBm 42.55 dBm	677.5 MHz 1.376 0 GHz 2.064 0 GHz	
Scale Type	_				6 7 8 9 10
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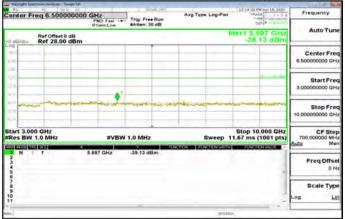
DFT-s-OFDM Pi/2_3GHz~26GHz_Band71_20MHz_BPSK_1_0_MidCH136100-680.5

Scale Typ

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DFT-s-OFDM Pi/2_3GHz~26GHz_Band71_20MHz_BPSK_1_0_HighCH137600-688



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Band Edge



DFT-s-OFDM Pi/2_Band2_5MHz_BPSK_1_24_HighCH381500-1907.5



DFT-s-OFDM Pi/2_Band2_5MHz_BPSK_25_0_LowCH370500-1852.5



DFT-s-OFDM Pi/2 Band2 5MHz BPSK 25 0 HighCH381500-1907.5



DFT-s-OFDM Pi/2_Band2_10MHz_BPSK_1_0_LowCH371000-1855



DFT-s-OFDM Pi/2_Band2_10MHz_BPSK_1_51_HighCH381000-1905



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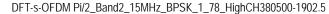






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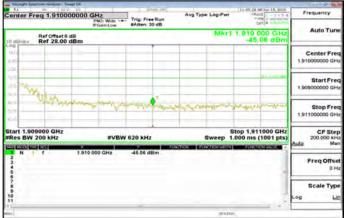




DFT-s-OFDM Pi/2_Band2_15MHz_BPSK_75_0_LowCH371500-1857.5



DFT-s-OFDM Pi/2_Band2_15MHz_BPSK_75_0_HighCH380500-1902.5



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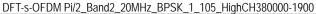
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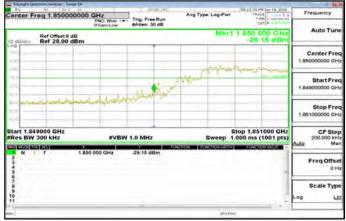
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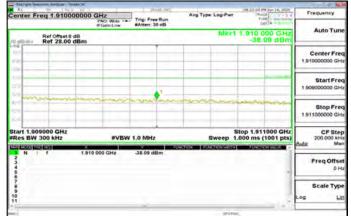




DFT-s-OFDM Pi/2_Band2_20MHz_BPSK_100_0_LowCH372000-1860



DFT-s-OFDM Pi/2_Band2_20MHz_BPSK_100_0_HighCH380000-1900



DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_1_0_LowCH165300-826.5



DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_1_24_HighCH169300-846.5



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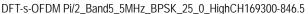
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DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_25_0_LowCH165300-826.5







DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_1_0_LowCH165800-829



DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_1_51_HighCH168800-844



DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_50_0_LowCH165800-829



DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_50_0_HighCH168800-844



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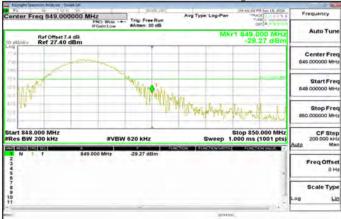
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DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_75_0_LowCH166300-831.5



DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_75_0_HighCH168300-841.5



DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_1_0_LowCH166800-834



DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_1_105_HighCH167800-839



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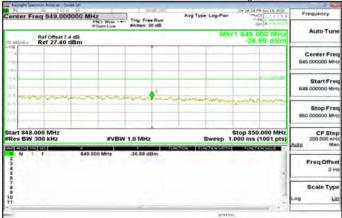
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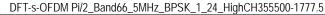






DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_1_0_LowCH342500-1712.5







DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_25_0_LowCH342500-1712.5



DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_25_0_HighCH355500-1777.5



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DFT-s-OFDM Pi/2 Band66 10MHz BPSK 1 51 HighCH355000-1775



DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_50_0_LowCH343000-1715



DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_50_0_HighCH355000-1775



DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_1_0_LowCH343500-1717.5



DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_1_78_HighCH354500-1772.5



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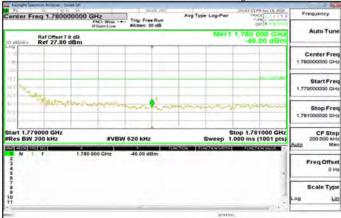
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DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_75_0_LowCH343500-1717.5

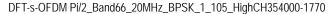


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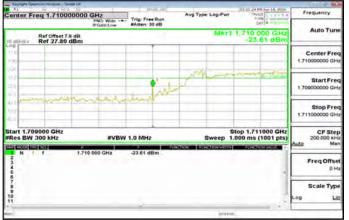
DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_1_0_LowCH344000-1720



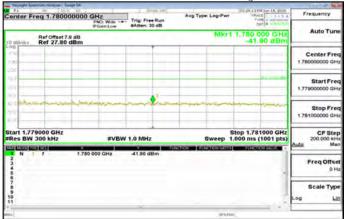




DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_100_0_LowCH344000-1720



DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_100_0_HighCH354000-1770



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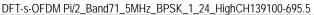
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DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_1_0_LowCH133147-665.5







DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_25_0_LowCH133100-665.5



DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_25_0_HighCH139100-695.5



DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_1_0_LowCH133600-668



DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_1_51_HighCH138600-693



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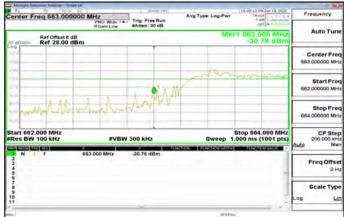
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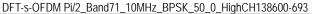
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DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_50_0_LowCH133600-668

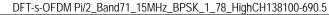






DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_1_0_LowCH134100-670.5







DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_75_0_LowCH134100-670.5



DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_75_0_HighCH138100-690.5



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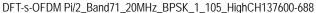
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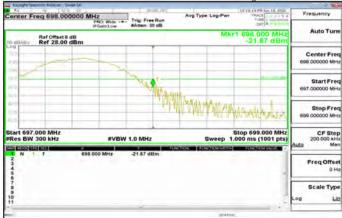
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DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_1_0_LowCH134600-673







DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_100_0_LowCH134600-673



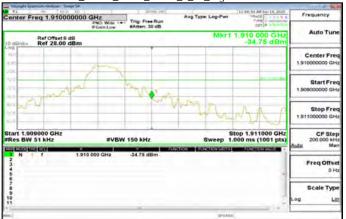
DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_100_0_HighCH137600-688



CP-OFDM_Band2_5MHz_QPSK_1_0_LowCH370500-1852.5



CP-OFDM_Band2_5MHz_QPSK_1_24_HighCH381500-1907.5



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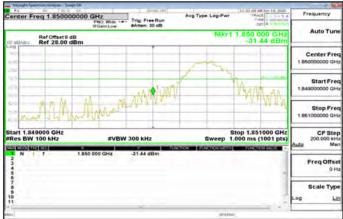
CP-OFDM_Band2_5MHz_QPSK_25_0_LowCH370500-1852.5





CP-OFDM_Band2_5MHz_QPSK_25_0_HighCH381500-1907.5

CP-OFDM_Band2_10MHz_QPSK_1_0_LowCH371000-1855



CP-OFDM_Band2_10MHz_QPSK_1_51_HighCH381000-1905



CP-OFDM_Band2_10MHz_QPSK_52_0_LowCH371000-1855



CP-OFDM_Band2_10MHz_QPSK_52_0_HighCH381000-1905



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CP-OFDM_Band2_15MHz_QPSK_1_0_LowCH371500-1857.5





CP-OFDM_Band2_15MHz_QPSK_1_78_HighCH380500-1902.5





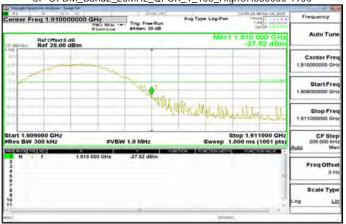
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CP-OFDM_Band2_20MHz_QPSK_1_0_LowCH372000-1860



CP-OFDM_Band2_20MHz_QPSK_1_105_HighCH380000-1900



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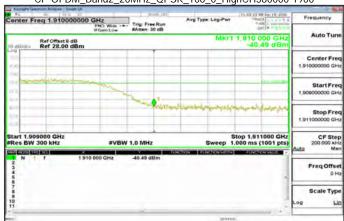
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CP-OFDM_Band2_20MHz_QPSK_106_0_LowCH372000-1860





CP-OFDM_Band2_20MHz_QPSK_106_0_HighCH380000-1900

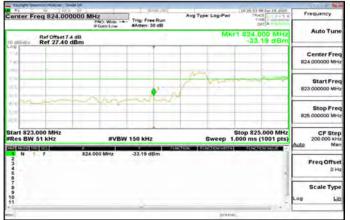
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CP-OFDM_Band5_5MHz_QPSK_1_24_HighCH169300-846.5



CP-OFDM_Band5_5MHz_QPSK_25_0_LowCH165300-826.5



CP-OFDM_Band5_5MHz_QPSK_25_0_HighCH169300-846.5



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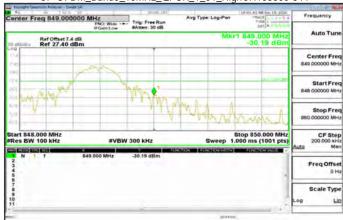
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CP-OFDM_Band5_10MHz_QPSK_1_0_LowCH165800-829





CP-OFDM_Band5_10MHz_QPSK_1_51_HighCH168800-844

CP-OFDM_Band5_10MHz_QPSK_52_0_LowCH165800-829



CP-OFDM_Band5_10MHz_QPSK_52_0_HighCH168800-844



CP-OFDM_Band5_15MHz_QPSK_1_0_LowCH166300-831.5



CP-OFDM_Band5_15MHz_QPSK_1_78_HighCH168300-841.5



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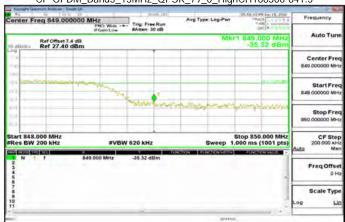
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CP-OFDM_Band5_15MHz_QPSK_79_0_LowCH166300-831.5



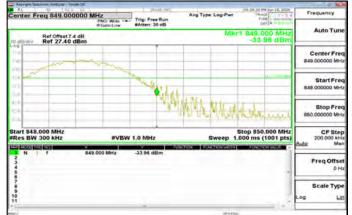


CP-OFDM_Band5_15MHz_QPSK_79_0_HighCH168300-841.5

CP-OFDM_Band5_20MHz_QPSK_1_0_LowCH166800-834



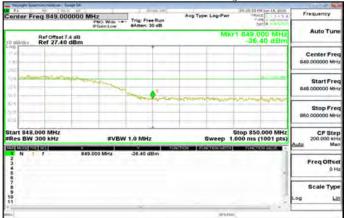




CP-OFDM_Band5_20MHz_QPSK_106_0_LowCH166800-834



CP-OFDM_Band5_20MHz_QPSK_106_0_HighCH167800-839



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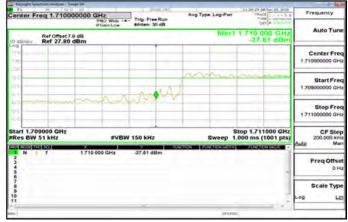
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CP-OFDM_Band66_5MHz_QPSK_1_24_HighCH132647-1777.5





CP-OFDM_Band66_5MHz_QPSK_25_0_HighCH355500-1777.5



CP-OFDM_Band66_10MHz_QPSK_1_0_LowCH343000-1715



CP-OFDM_Band66_10MHz_QPSK_1_51_HighCH355000-1775



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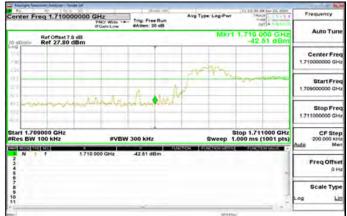
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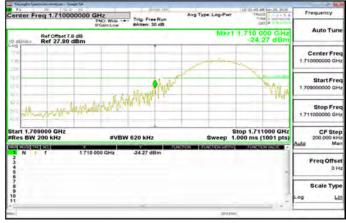
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CP-OFDM_Band66_10MHz_QPSK_52_0_HighCH355000-1775





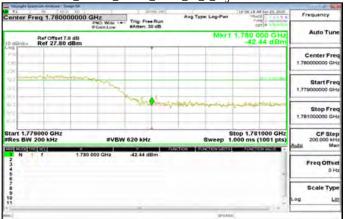




CP-OFDM_Band66_15MHz_QPSK_79_0_LowCH343500-1717.5



CP-OFDM_Band66_15MHz_QPSK_79_0_HighCH354500-1772.5



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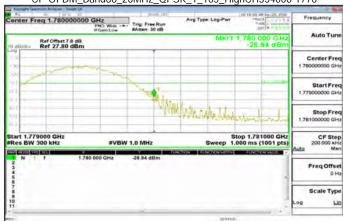
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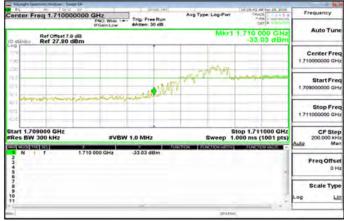
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CP-OFDM_Band66_20MHz_QPSK_1_105_HighCH354000-1770









CP-OFDM_Band71_5MHz_QPSK_1_0_LowCH133100-665.5



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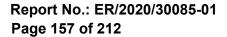


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CP-OFDM_Band71_5MHz_QPSK_25_0_LowCH133100-665.5





CP-OFDM_Band71_5MHz_QPSK_25_0_HighCH139100-695.5

CP-OFDM_Band71_10MHz_QPSK_1_0_LowCH133600-668



CP-OFDM_Band71_10MHz_QPSK_1_51_HighCH138600-693



CP-OFDM_Band71_10MHz_QPSK_52_0_LowCH133600-668



CP-OFDM_Band71_10MHz_QPSK_52_0_HighCH138600-693



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CP-OFDM_Band71_15MHz_QPSK_1_0_LowCH134100-670.5



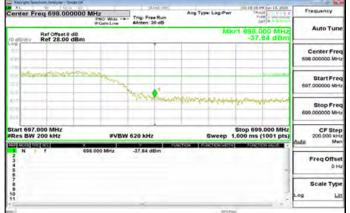


CP-OFDM_Band71_15MHz_QPSK_1_78_HighCH138100-690.5

CP-OFDM_Band71_15MHz_QPSK_79_0_LowCH134100-670.5







CP-OFDM_Band71_20MHz_QPSK_1_0_LowCH134600-673



CP-OFDM_Band71_20MHz_QPSK_1_105_HighCH137600-688



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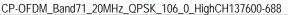
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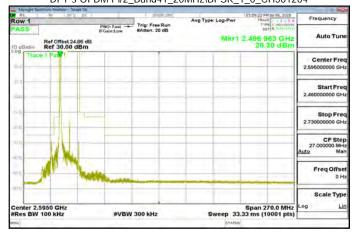
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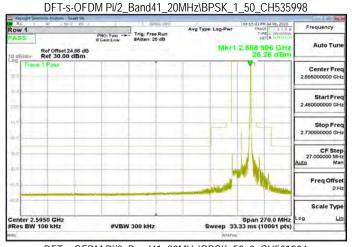


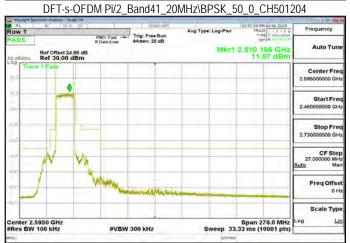




Mask DFT-s-OFDM Pi/2 Band41 20MHz\BPSK 1 0 CH501204







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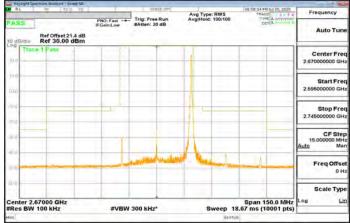
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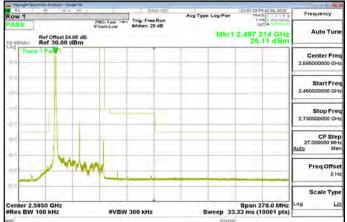
DFT-s-OFDM Pi/2_Band41_40MHz\BPSK_100_0_CH503202



DFT-s-OFDM Pi/2_Band41_40MHz\BPSK_100_0_CH534000







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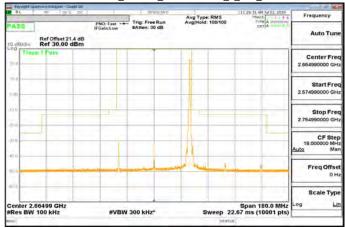
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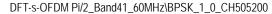
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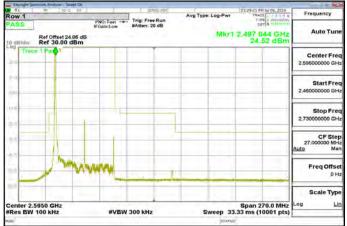


DFT-s-OFDM Pi/2_Band41_50MHz\BPSK_128_0_CH504204 Frequency Avg Type: Log-Pwr PNO: Fast ---- Trig: Free Run #Atten: 20 dB Mkr1 2,541 837 GH 7.02 dBr Auto Tu Ref Offset 24.85 de Ref 30.00 dBm Center Fr Start Fre Ston Fr CF Ste New Ma 27.0 MI JUN IL and the state Freq Offs Scale Ty L er 2.5950 GHz BW 100 kHz Span 270.0 MHz Sweep 33.33 ms (10001 pts) #VBW 300 kHz

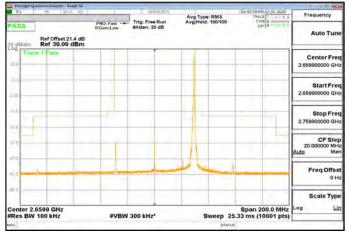
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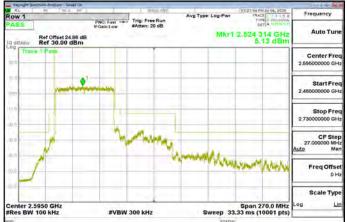




DFT-s-OFDM Pi/2_Band41_60MHz\BPSK_1_161_CH531996







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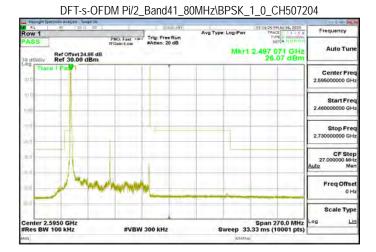
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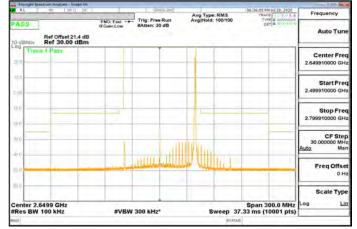


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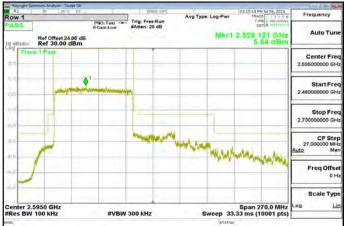




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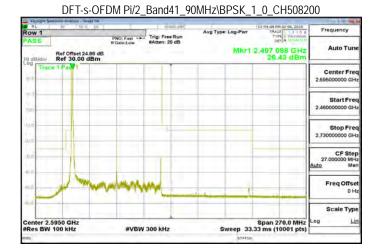


DFT-s-OFDM Pi/2_Band41_80MHz\BPSK_216_0_CH507204



DFT-s-OFDM Pi/2_Band41_80MHz\BPSK_216_0_CH529998





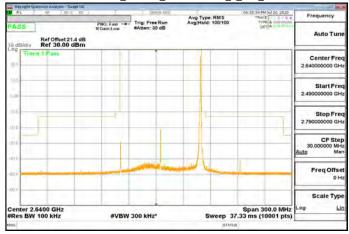
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DFT-s-OFDM Pi/2_Band41_90MHz\BPSK_1_244_CH528996



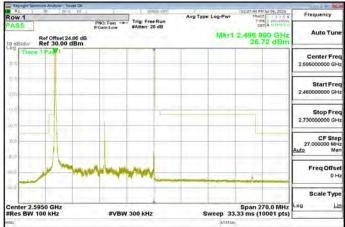




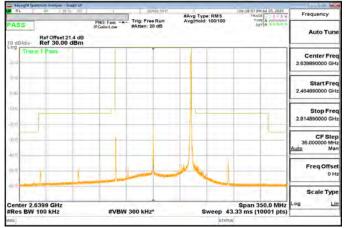




DFT-s-OFDM Pi/2_Band41_100MHz\BPSK_1_0_CH509202



DFT-s-OFDM Pi/2_Band41_100MHz\BPSK_1_272_CH528000







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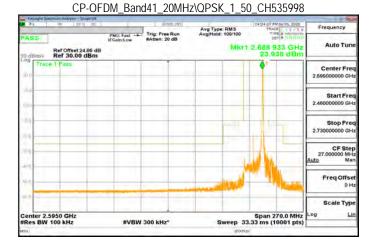
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DFT-s-OFDM Pi/2_Band41_100MHz\BPSK_270_0_CH528000







CP-OFDM_Band41_20MHz\QPSK_51_0_CH501204



CP-OFDM_Band41_20MHz\QPSK_51_0_CH535998



CP-OFDM_Band41_40MHz\QPSK_1_0_CH503202



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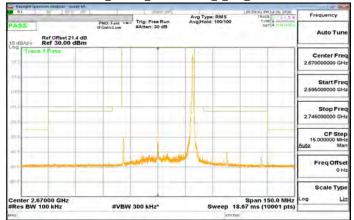
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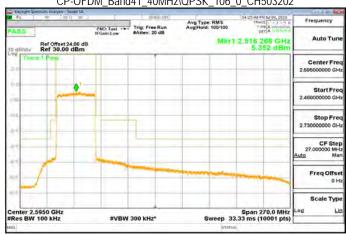
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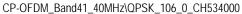


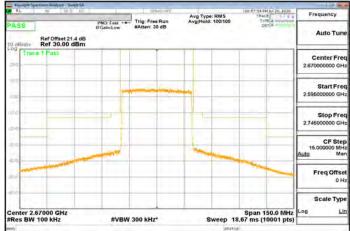
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CP-OFDM_Band41_40MHz\QPSK_106_0_CH503202

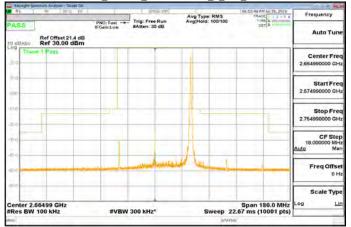




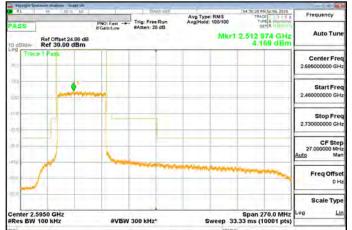
CP-OFDM_Band41_50MHz\QPSK_1_0_CH504204



CP-OFDM_Band41_50MHz\QPSK_1_132_CH532998



CP-OFDM_Band41_50MHz\QPSK_133_0_CH504204



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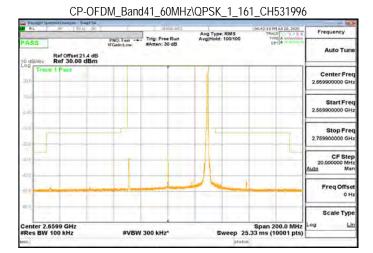
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CP-OFDM_Band41_50MHz\QPSK_133_0_CH532998

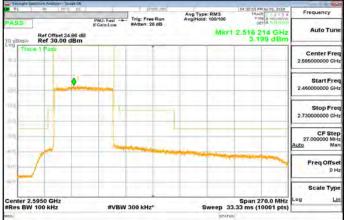






CP-OFDM_Band41_60MHz\QPSK_1_0_CH505200

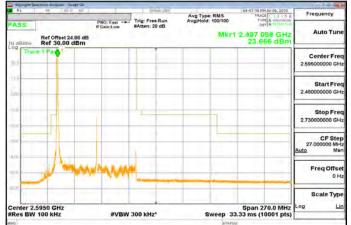
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CP-OFDM_Band41_60MHz\QPSK_162_0_CH531996



CP-OFDM_Band41_80MHz\QPSK_1_0_CH507204



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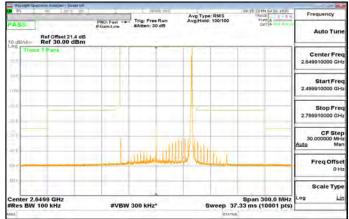
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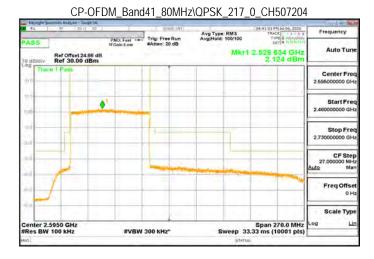
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CP-OFDM_Band41_80MHz\QPSK_1_216_CH529998

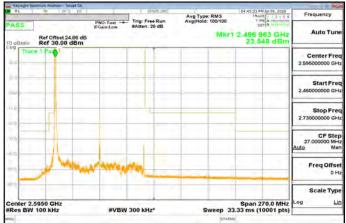




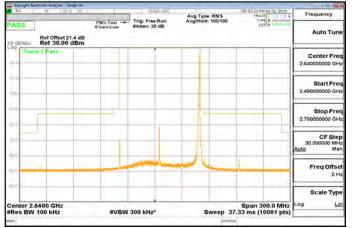
CP-OFDM_Band41_80MHz\QPSK_217_0_CH529998

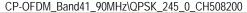


CP-OFDM_Band41_90MHz\QPSK_1_0_CH508200



CP-OFDM_Band41_90MHz\QPSK_1_244_CH528996







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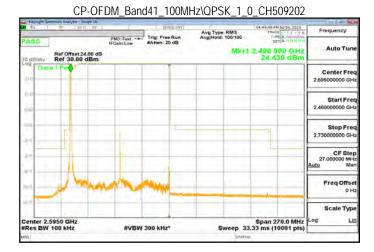
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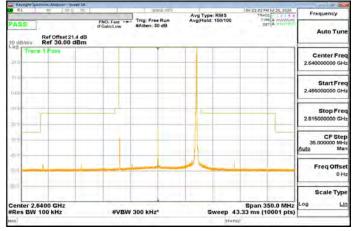


CP-OFDM_Band41_90MHz\QPSK_245_0_CH528996





CP-OFDM_Band41_100MHz\QPSK_1_272_CH528000



CP-OFDM_Band41_100MHz\QPSK_273_0_CH509202



CP-OFDM_Band41_100MHz\QPSK_273_0_CH528000



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-130 §6.6, RSS-199 §4.5

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(c) (5) & FCC §27.53(g) for LTE B71

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

RSS-130 §4.7.1 for LTE B71

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

FCC §27.53(h)(3) for LTE B66

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RSS-139 §6.6 for LTE B66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

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FCC §27.53(m) (4) (6) for LTE B41

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RSS-199 §4.5 for LTE B41

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

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Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{Note}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{Note}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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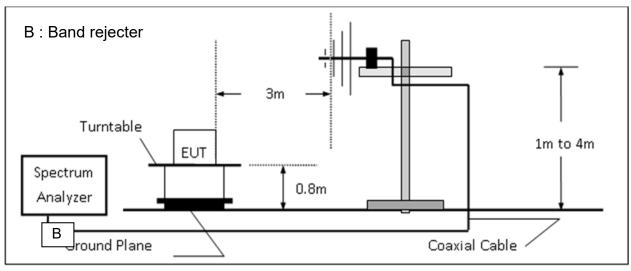
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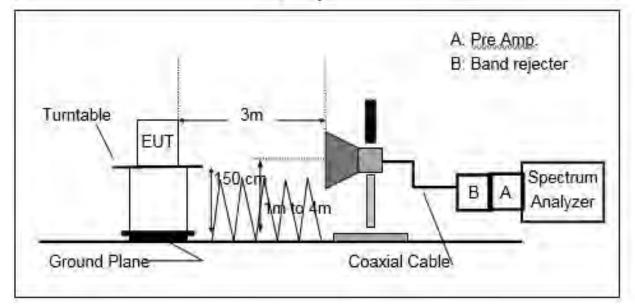


9.2 **EUT Setup**

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3 **Measurement Procedure:**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB) EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT- N0555	01/13/2020	01/12/2021
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
Filter 2240-2700	Micro-Tronics	WI	2	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM- 2000	160123	01/02/2020	01/01/2021

9.4 Measurement Equipment Used:

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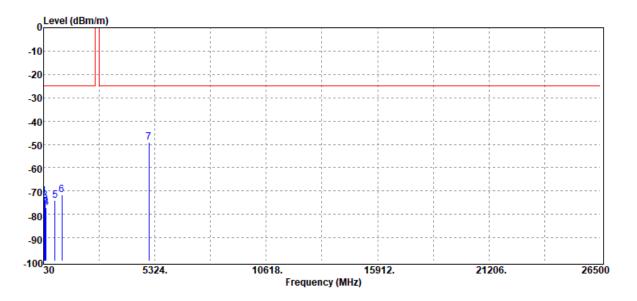
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9.5 **Measurement Result:**

Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:n41A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2516.01 MHz	Engineer	:Neo



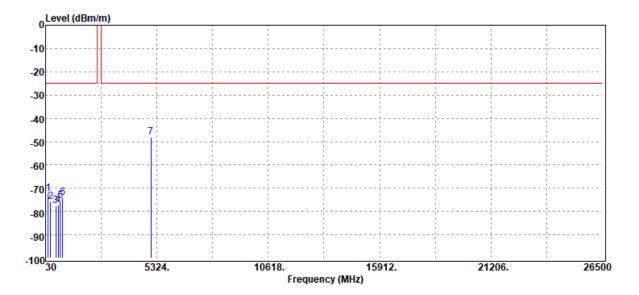
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-72.15	-55.79	-15.65	-0.71	-25.00	-47.15
88.20	-74.08	-66.99	-6.20	-0.89	-25.00	-49.08
109.54	-75.89	-67.80	-7.09	-1.00	-25.00	-50.89
156.10	-77.23	-68.85	-7.17	-1.21	-25.00	-52.23
571.26	-74.12	-70.29	-1.52	-2.31	-25.00	-49.12
896.21	-71.70	-67.13	-1.60	-2.97	-25.00	-46.70
5032.02	-49.08	-54.88	12.64	-6.84	-25.00	-24.08

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:n41A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2516.01 MHz	Engineer	:Neo



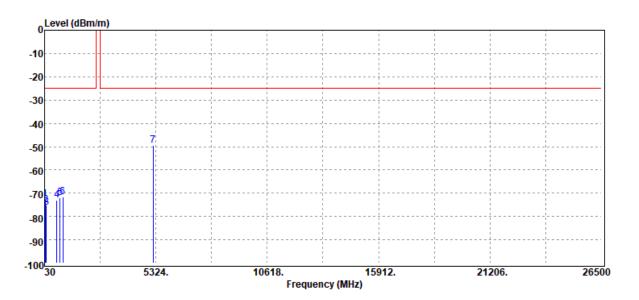
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
158.04	-72.47	-64.21	-7.05	-1.21	-25.00	-47.47
267.65	-75.92	-72.65	-1.74	-1.53	-25.00	-50.92
526.64	-77.42	-74.15	-1.33	-1.94	-25.00	-52.42
631.40	-77.15	-73.29	-1.52	-2.34	-25.00	-52.15
731.31	-75.30	-71.13	-1.50	-2.67	-25.00	-50.30
847.71	-74.03	-69.98	-1.56	-2.49	-25.00	-49.03
5032.02	-48.03	-53.83	12.64	-6.84	-25.00	-23.03

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:ER/2020/30084	Test Site	:SAC I Chamber
:n41A	Test Date	:2020-07-14
:Tx CH Mid	Temp./Humi.	:26.5/62
:E1 Plane	Antenna Pol.	:VERTICAL
:2592.99 MHz	Engineer	:Neo
	:n41A :Tx CH Mid :E1 Plane	:n41ATest Date:Tx CH MidTemp./Humi.:E1 PlaneAntenna Pol.



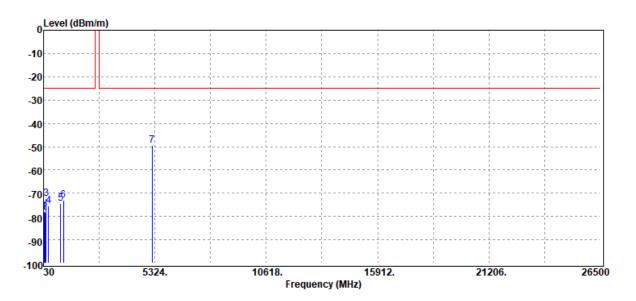
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-72.58	-57.22	-14.61	-0.75	-25.00	-47.58
90.14	-75.02	-68.31	-5.81	-0.90	-25.00	-50.02
109.54	-76.10	-68.01	-7.09	-1.00	-25.00	-51.10
605.21	-73.07	-69.07	-1.89	-2.11	-25.00	-48.07
774.96	-71.97	-67.91	-1.84	-2.22	-25.00	-46.97
893.30	-71.57	-67.07	-1.54	-2.96	-25.00	-46.57
5185.98	-49.50	-55.31	12.92	-7.11	-25.00	-24.50

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:ER/2020/30084	Test Site	:SAC I Chamber
:n41A	Test Date	:2020-07-14
:Tx CH Mid	Temp./Humi.	:26.5/62
:E1 Plane	Antenna Pol.	:HORIZONTAL
:2592.99 MHz	Engineer	:Neo
	:n41A :Tx CH Mid :E1 Plane	:n41ATest Date:Tx CH MidTemp./Humi.:E1 PlaneAntenna Pol.

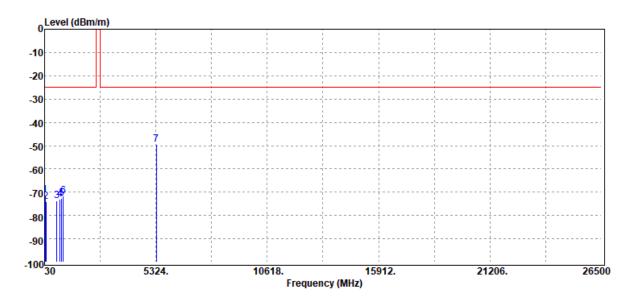


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.01	-77.78	-62.64	-14.38	-0.76	-25.00	-52.78
100.81	-78.25	-71.10	-6.20	-0.95	-25.00	-53.25
158.04	-72.47	-64.21	-7.05	-1.21	-25.00	-47.47
269.59	-75.52	-72.20	-1.79	-1.53	-25.00	-50.52
835.10	-74.52	-69.78	-1.79	-2.95	-25.00	-49.52
972.84	-73.10	-68.15	-1.82	-3.13	-25.00	-48.10
5185.98	-49.62	-55.43	12.92	-7.11	-25.00	-24.62

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:n41A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2670 MHz	Engineer	:Neo



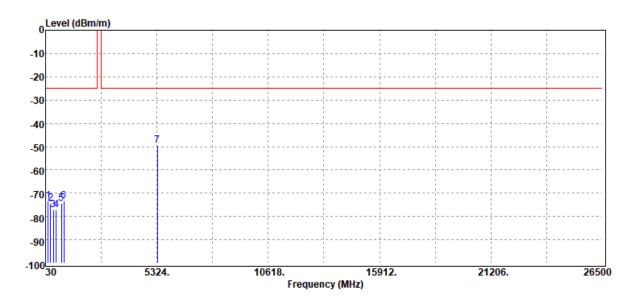
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.01	-71.44	-56.30	-14.38	-0.76	-25.00	-46.44
99.84	-73.97	-67.01	-6.01	-0.95	-25.00	-48.97
612.00	-73.76	-69.89	-1.89	-1.98	-25.00	-48.76
759.44	-73.11	-68.63	-1.81	-2.67	-25.00	-48.11
839.95	-72.77	-68.25	-1.64	-2.88	-25.00	-47.77
914.64	-71.71	-66.97	-1.79	-2.95	-25.00	-46.71
5340.00	-49.60	-56.00	13.48	-7.08	-25.00	-24.60

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:n41A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:2670 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
159.01	-73.39	-65.18	-7.00	-1.21	-25.00	-48.39
267.65	-74.45	-71.18	-1.74	-1.53	-25.00	-49.45
410.24	-77.23	-73.97	-1.38	-1.88	-25.00	-52.23
529.55	-77.08	-73.90	-1.34	-1.84	-25.00	-52.08
783.69	-74.47	-70.32	-1.72	-2.43	-25.00	-49.47
898.15	-73.29	-68.69	-1.62	-2.98	-25.00	-48.29
5340.00	-49.53	-55.93	13.48	-7.08	-25.00	-24.53

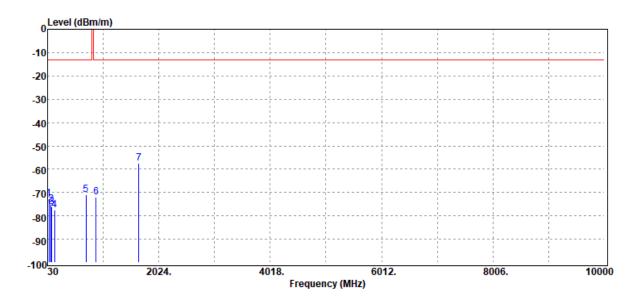
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1950 MHz_831.5 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-72.78	-56.42	-15.65	-0.71	-13.00	-59.78
90.14	-74.96	-68.25	-5.81	-0.90	-13.00	-61.96
107.60	-76.12	-68.18	-6.95	-0.99	-13.00	-63.12
156.10	-77.65	-69.27	-7.17	-1.21	-13.00	-64.65
719.67	-70.80	-66.97	-1.19	-2.64	-13.00	-57.80
898.15	-71.94	-67.34	-1.62	-2.98	-13.00	-58.94
1663.00	-57.52	-63.44	9.80	-3.88	-13.00	-44.52

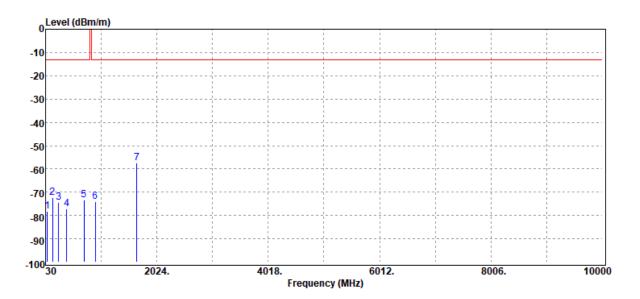
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1950 MHz_831.5 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.89	-78.11	-64.23	-13.09	-0.79	-13.00	-65.11
159.01	-72.19	-63.98	-7.00	-1.21	-13.00	-59.19
267.65	-74.29	-71.02	-1.74	-1.53	-13.00	-61.29
405.39	-77.23	-73.89	-1.47	-1.87	-13.00	-64.23
715.79	-73.46	-69.56	-1.32	-2.58	-13.00	-60.46
919.49	-74.13	-69.40	-1.85	-2.88	-13.00	-61.13
1663.00	-57.33	-63.25	9.80	-3.88	-13.00	-44.33

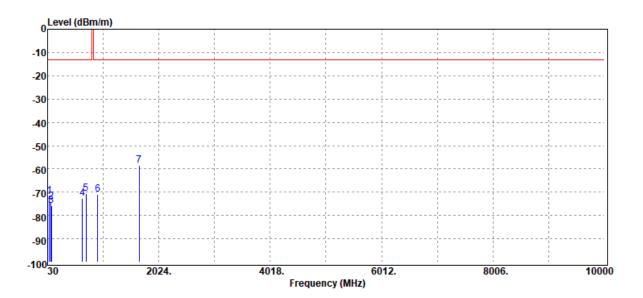
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1950 MHz_836.5 MHz	Engineer	:Neo



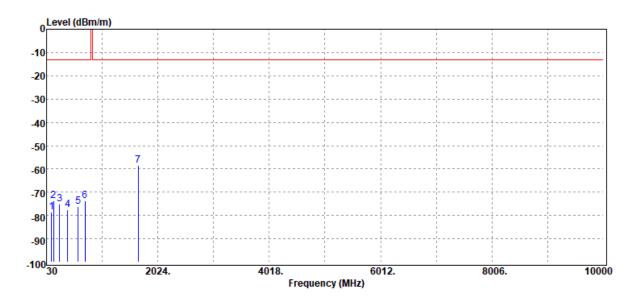
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-71.52	-56.16	-14.61	-0.75	-13.00	-58.52
88.20	-74.08	-66.99	-6.20	-0.89	-13.00	-61.08
100.81	-75.78	-68.63	-6.20	-0.95	-13.00	-62.78
653.71	-72.62	-68.74	-1.32	-2.56	-13.00	-59.62
718.70	-70.45	-66.60	-1.22	-2.63	-13.00	-57.45
927.25	-70.90	-66.21	-1.93	-2.76	-13.00	-57.90
1673.00	-58.62	-64.52	9.80	-3.90	-13.00	-45.62

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1950 MHz_836.5 MHz	Engineer	:Neo

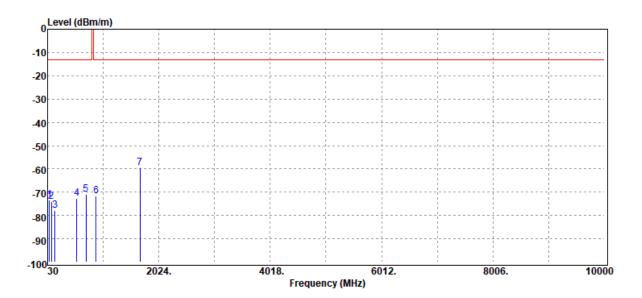


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
119.24	-78.47	-70.09	-7.32	-1.06	-13.00	-65.47
158.04	-73.80	-65.54	-7.05	-1.21	-13.00	-60.80
267.65	-75.13	-71.86	-1.74	-1.53	-13.00	-62.13
410.24	-77.59	-74.33	-1.38	-1.88	-13.00	-64.59
599.39	-75.98	-71.83	-1.86	-2.29	-13.00	-62.98
719.67	-73.54	-69.71	-1.19	-2.64	-13.00	-60.54
1673.00	-58.60	-64.50	9.80	-3.90	-13.00	-45.60

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1950 MHz_841.5 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-73.22	-57.31	-15.18	-0.73	-13.00	-60.22
97.90	-74.04	-67.31	-5.79	-0.94	-13.00	-61.04
163.86	-77.86	-69.98	-6.65	-1.23	-13.00	-64.86
553.80	-72.72	-69.18	-1.31	-2.23	-13.00	-59.72
719.67	-70.83	-67.00	-1.19	-2.64	-13.00	-57.83
898.15	-71.79	-67.19	-1.62	-2.98	-13.00	-58.79
1683.00	-59.40	-65.29	9.80	-3.91	-13.00	-46.40

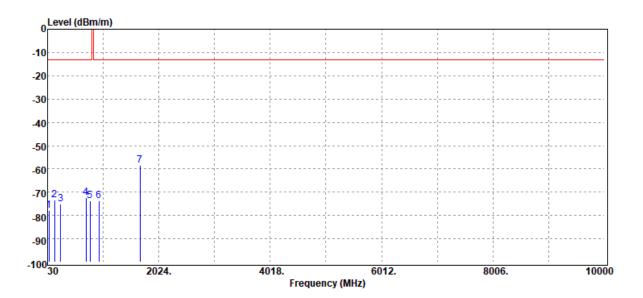
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n5A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1950 MHz_841.5 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-77.97	-61.61	-15.65	-0.71	-13.00	-64.97
159.01	-73.33	-65.12	-7.00	-1.21	-13.00	-60.33
267.65	-75.13	-71.86	-1.74	-1.53	-13.00	-62.13
716.76	-72.38	-68.51	-1.28	-2.59	-13.00	-59.38
794.36	-73.77	-69.41	-1.61	-2.75	-13.00	-60.77
946.65	-73.75	-69.06	-1.97	-2.72	-13.00	-60.75
1683.00	-58.40	-64.29	9.80	-3.91	-13.00	-45.40

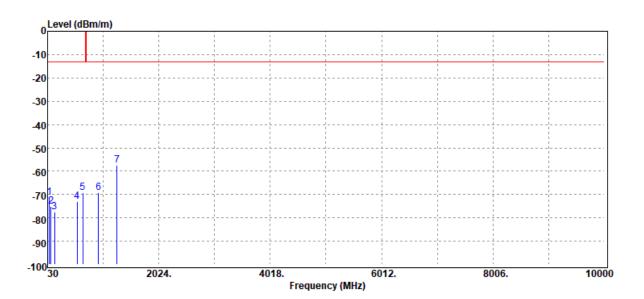
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz_637 MHz	Engineer	:Neo

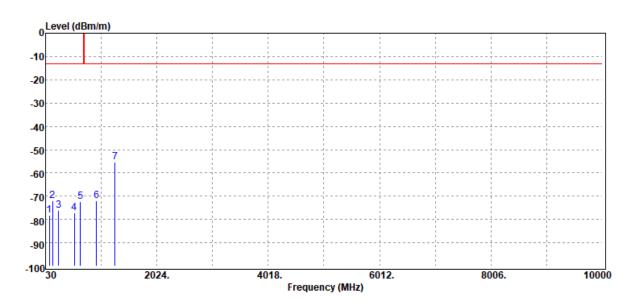


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-71.23	-55.87	-14.61	-0.75	-13.00	-58.23
91.11	-74.97	-68.42	-5.64	-0.91	-13.00	-61.97
158.04	-77.35	-69.09	-7.05	-1.21	-13.00	-64.35
556.71	-73.04	-69.43	-1.35	-2.26	-13.00	-60.04
658.56	-69.34	-65.35	-1.33	-2.66	-13.00	-56.34
939.86	-69.16	-64.56	-1.97	-2.63	-13.00	-56.16
1274.00	-57.43	-60.94	6.90	-3.39	-13.00	-44.43

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz_637 MHz	Engineer	:Neo



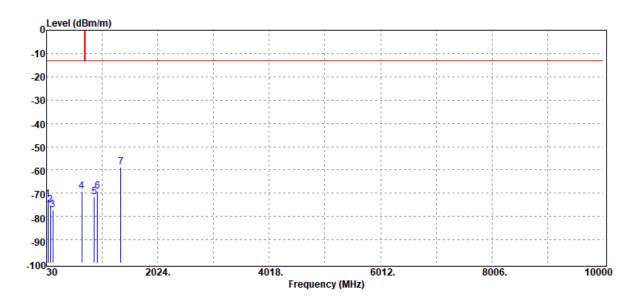
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
100.81	-78.13	-70.98	-6.20	-0.95	-13.00	-65.13
159.01	-72.14	-63.93	-7.00	-1.21	-13.00	-59.14
267.65	-76.02	-72.75	-1.74	-1.53	-13.00	-63.02
548.95	-77.21	-73.82	-1.22	-2.17	-13.00	-64.21
657.59	-72.46	-68.50	-1.32	-2.64	-13.00	-59.46
939.86	-72.01	-67.41	-1.97	-2.63	-13.00	-59.01
1274.00	-55.52	-59.03	6.90	-3.39	-13.00	-42.52

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz_680.5 MHz	Engineer	:Neo



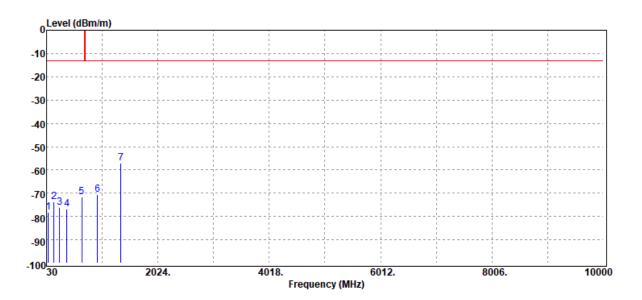
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-72.72	-56.36	-15.65	-0.71	-13.00	-59.72
99.84	-75.00	-68.04	-6.01	-0.95	-13.00	-62.00
138.64	-77.21	-68.18	-7.95	-1.08	-13.00	-64.21
660.50	-69.10	-65.07	-1.34	-2.69	-13.00	-56.10
881.66	-71.63	-67.18	-1.45	-3.00	-13.00	-58.63
939.86	-69.37	-64.77	-1.97	-2.63	-13.00	-56.37
1361.00	-58.95	-62.67	7.23	-3.51	-13.00	-45.95

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz_680.5 MHz	Engineer	:Neo

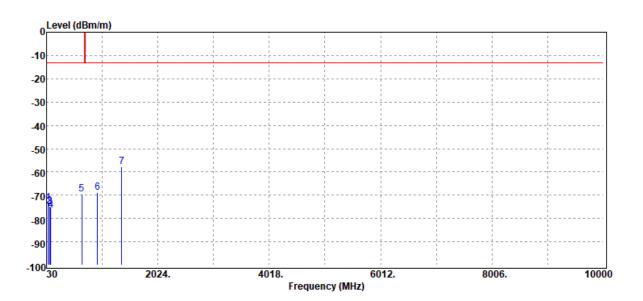


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
65.89	-78.21	-64.33	-13.09	-0.79	-13.00	-65.21
160.95	-73.62	-65.61	-6.80	-1.21	-13.00	-60.62
265.71	-76.08	-72.87	-1.68	-1.53	-13.00	-63.08
395.69	-76.98	-73.56	-1.58	-1.84	-13.00	-63.98
660.50	-71.59	-67.56	-1.34	-2.69	-13.00	-58.59
939.86	-70.57	-65.97	-1.97	-2.63	-13.00	-57.57
1361.00	-57.24	-60.96	7.23	-3.51	-13.00	-44.24

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1880 MHz_688 MHz	Engineer	:Neo



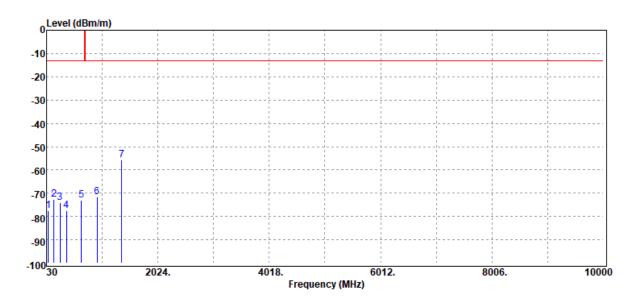
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.98	-73.36	-58.54	-14.05	-0.77	-13.00	-60.36
86.26	-74.76	-67.12	-6.76	-0.88	-13.00	-61.76
99.84	-75.23	-68.27	-6.01	-0.95	-13.00	-62.23
108.57	-76.56	-68.53	-7.03	-1.00	-13.00	-63.56
658.56	-69.48	-65.49	-1.33	-2.66	-13.00	-56.48
941.80	-68.84	-64.20	-1.98	-2.66	-13.00	-55.84
1376.00	-57.68	-61.56	7.41	-3.53	-13.00	-44.68

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:2A_n71A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:1880 MHz_688 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
63.95	-77.47	-62.79	-13.91	-0.77	-13.00	-64.47
160.95	-72.61	-64.60	-6.80	-1.21	-13.00	-59.61
269.59	-74.12	-70.80	-1.79	-1.53	-13.00	-61.12
386.96	-77.59	-74.28	-1.51	-1.80	-13.00	-64.59
657.59	-72.90	-68.94	-1.32	-2.64	-13.00	-59.90
936.95	-71.75	-67.10	-1.99	-2.66	-13.00	-58.75
1376.00	-55.87	-59.75	7.41	-3.53	-13.00	-42.87

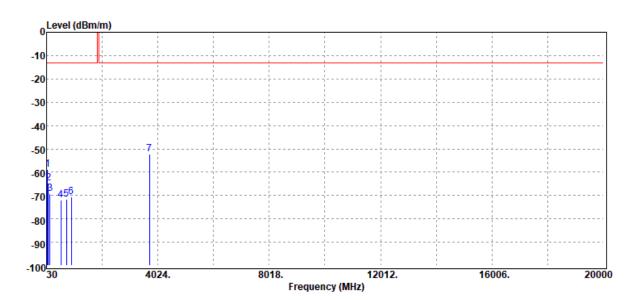
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz_1860 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
63.95	-58.92	-44.24	-13.91	-0.77	-13.00	-45.92
89.17	-64.71	-57.80	-6.01	-0.90	-13.00	-51.71
159.01	-69.08	-60.87	-7.00	-1.21	-13.00	-56.08
548.95	-72.13	-68.74	-1.22	-2.17	-13.00	-59.13
742.95	-71.70	-67.12	-1.77	-2.81	-13.00	-58.70
925.31	-70.65	-65.95	-1.91	-2.79	-13.00	-57.65
3720.00	-52.26	-58.84	12.40	-5.82	-13.00	-39.26

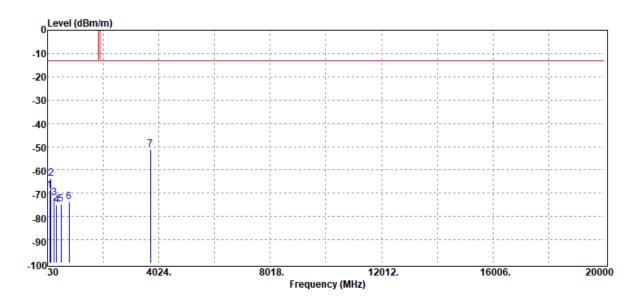
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz_1860 MHz	Engineer	:Neo

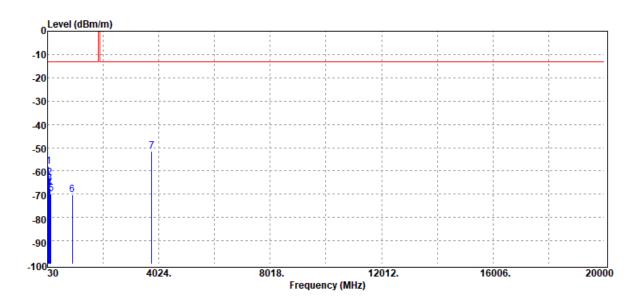


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
102.75	-68.79	-61.39	-6.44	-0.96	-13.00	-55.79
159.01	-63.70	-55.49	-7.00	-1.21	-13.00	-50.70
267.65	-71.86	-68.59	-1.74	-1.53	-13.00	-58.86
357.86	-75.09	-71.85	-1.51	-1.73	-13.00	-62.09
517.91	-74.78	-71.13	-1.44	-2.21	-13.00	-61.78
801.15	-73.68	-69.28	-1.58	-2.82	-13.00	-60.68
3720.00	-51.07	-57.65	12.40	-5.82	-13.00	-38.07

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz_1880 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-58.06	-42.15	-15.18	-0.73	-13.00	-45.06
88.20	-63.06	-55.97	-6.20	-0.89	-13.00	-50.06
99.84	-65.37	-58.41	-6.01	-0.95	-13.00	-52.37
109.54	-67.39	-59.30	-7.09	-1.00	-13.00	-54.39
153.19	-69.97	-61.43	-7.32	-1.22	-13.00	-56.97
915.61	-70.17	-65.44	-1.80	-2.93	-13.00	-57.17
3760.00	-51.49	-58.15	12.40	-5.74	-13.00	-38.49

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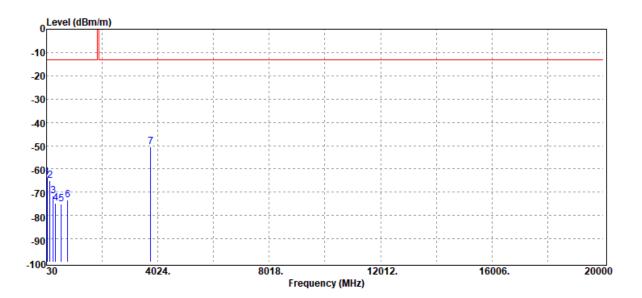
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz_1880 MHz	Engineer	:Neo

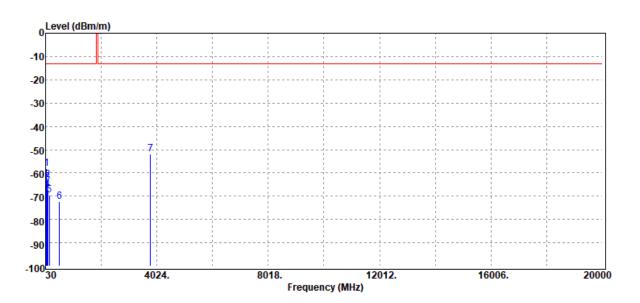


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-63.75	-47.39	-15.65	-0.71	-13.00	-50.75
156.10	-65.11	-56.73	-7.17	-1.21	-13.00	-52.11
265.71	-71.70	-68.49	-1.68	-1.53	-13.00	-58.70
357.86	-74.74	-71.50	-1.51	-1.73	-13.00	-61.74
555.74	-75.13	-71.54	-1.34	-2.25	-13.00	-62.13
784.66	-73.49	-69.29	-1.73	-2.47	-13.00	-60.49
3760.00	-50.45	-57.11	12.40	-5.74	-13.00	-37.45

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz_1900 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-58.26	-42.90	-14.61	-0.75	-13.00	-45.26
88.20	-63.12	-56.03	-6.20	-0.89	-13.00	-50.12
99.84	-64.12	-57.16	-6.01	-0.95	-13.00	-51.12
107.60	-67.05	-59.11	-6.95	-0.99	-13.00	-54.05
162.89	-69.47	-61.46	-6.79	-1.22	-13.00	-56.47
531.49	-72.41	-69.22	-1.35	-1.84	-13.00	-59.41
3800.00	-51.80	-58.54	12.40	-5.66	-13.00	-38.80

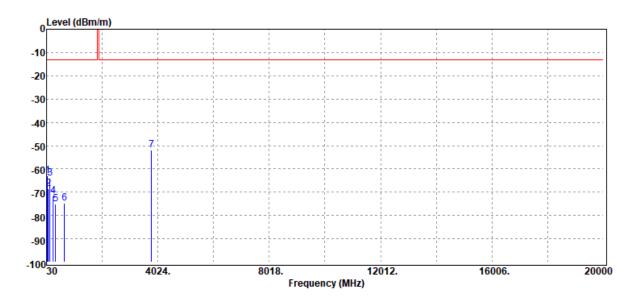
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n2A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz_1900 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.01	-63.06	-47.92	-14.38	-0.76	-13.00	-50.06
95.96	-68.41	-61.90	-5.58	-0.93	-13.00	-55.41
159.01	-64.17	-55.96	-7.00	-1.21	-13.00	-51.17
270.56	-71.77	-68.45	-1.79	-1.53	-13.00	-58.77
359.80	-75.20	-71.99	-1.50	-1.71	-13.00	-62.20
675.05	-74.79	-70.78	-1.44	-2.57	-13.00	-61.79
3800.00	-51.94	-58.68	12.40	-5.66	-13.00	-38.94

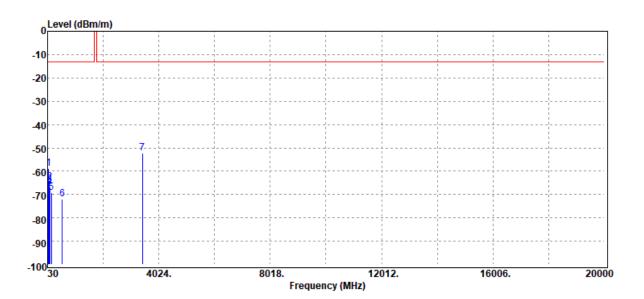
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz_1715 MHz	Engineer	:Neo



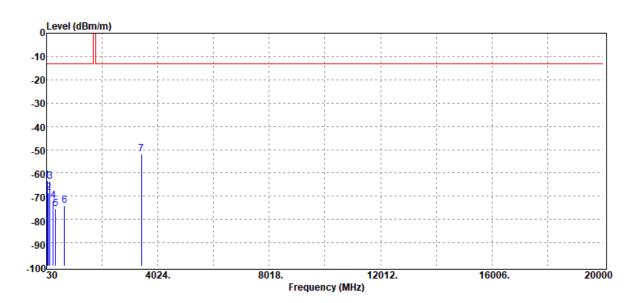
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-58.92	-43.01	-15.18	-0.73	-13.00	-45.92
90.14	-64.78	-58.07	-5.81	-0.90	-13.00	-51.78
99.84	-65.77	-58.81	-6.01	-0.95	-13.00	-52.77
109.54	-66.68	-58.59	-7.09	-1.00	-13.00	-53.68
160.95	-69.38	-61.37	-6.80	-1.21	-13.00	-56.38
560.59	-72.12	-68.47	-1.37	-2.28	-13.00	-59.12
3430.00	-52.19	-59.67	12.70	-5.22	-13.00	-39.19

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz_1715 MHz	Engineer	:Neo

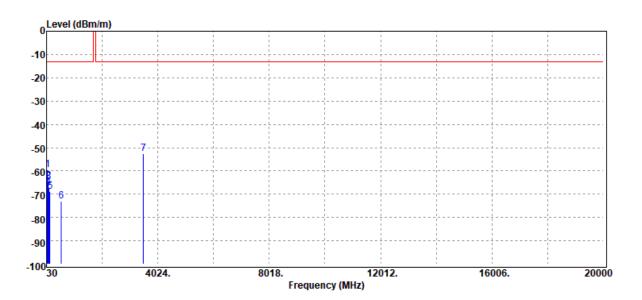


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
	UDITI	UDIII	UDI/UDU	uв	UDITI	uD
57.16	-63.40	-47.04	-15.65	-0.71	-13.00	-50.40
95.96	-68.46	-61.95	-5.58	-0.93	-13.00	-55.46
158.04	-63.71	-55.45	-7.05	-1.21	-13.00	-50.71
269.59	-72.07	-68.75	-1.79	-1.53	-13.00	-59.07
354.95	-75.44	-72.15	-1.52	-1.77	-13.00	-62.44
676.99	-74.20	-70.27	-1.45	-2.48	-13.00	-61.20
3430.00	-52.02	-59.50	12.70	-5.22	-13.00	-39.02

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz_1755 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.01	-59.54	-44.40	-14.38	-0.76	-13.00	-46.54
90.14	-64.20	-57.49	-5.81	-0.90	-13.00	-51.20
99.84	-64.65	-57.69	-6.01	-0.95	-13.00	-51.65
108.57	-67.28	-59.25	-7.03	-1.00	-13.00	-54.28
159.01	-68.81	-60.60	-7.00	-1.21	-13.00	-55.81
553.80	-72.98	-69.44	-1.31	-2.23	-13.00	-59.98
3510.00	-52.43	-58.98	12.46	-5.91	-13.00	-39.43

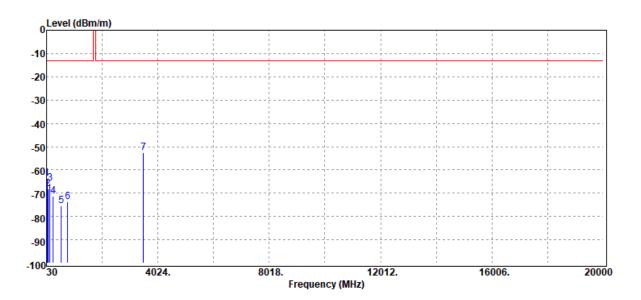
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2020-07-14
Test Mode	:Tx CH Mid	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz_1755 MHz	Engineer	:Neo

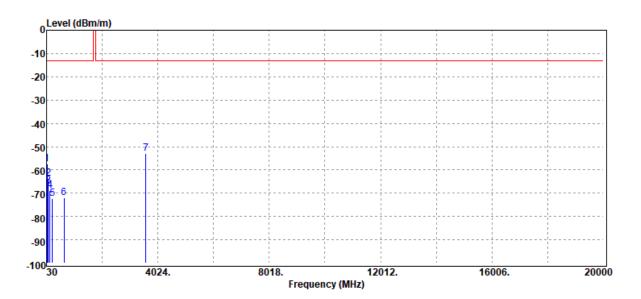


Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-63.50	-47.14	-15.65	-0.71	-13.00	-50.50
86.26	-68.01	-60.37	-6.76	-0.88	-13.00	-55.01
153.19	-65.74	-57.20	-7.32	-1.22	-13.00	-52.74
270.56	-71.36	-68.04	-1.79	-1.53	-13.00	-58.36
558.65	-75.49	-71.86	-1.36	-2.27	-13.00	-62.49
784.66	-73.65	-69.45	-1.73	-2.47	-13.00	-60.65
3510.00	-52.65	-59.20	12.46	-5.91	-13.00	-39.65

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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:836.5 MHz_1795 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-57.29	-40.93	-15.65	-0.71	-13.00	-44.29
90.14	-63.77	-57.06	-5.81	-0.90	-13.00	-50.77
100.81	-66.75	-59.60	-6.20	-0.95	-13.00	-53.75
159.01	-68.84	-60.63	-7.00	-1.21	-13.00	-55.84
240.49	-72.30	-69.10	-1.72	-1.48	-13.00	-59.30
663.41	-72.03	-67.94	-1.36	-2.73	-13.00	-59.03
3590.00	-52.95	-59.31	12.30	-5.94	-13.00	-39.95

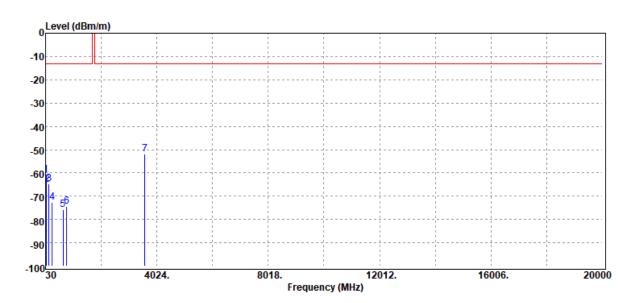
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Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:5A_n66A	Test Date	:2020-07-14
Test Mode	:Tx CH High	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:HORIZONTAL
Test Frequency	:836.5 MHz_1795 MHz	Engineer	:Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-60.81	-44.45	-15.65	-0.71	-13.00	-47.81
65.89	-65.13	-51.25	-13.09	-0.79	-13.00	-52.13
158.04	-64.83	-56.57	-7.05	-1.21	-13.00	-51.83
267.65	-72.67	-69.40	-1.74	-1.53	-13.00	-59.67
663.41	-75.66	-71.57	-1.36	-2.73	-13.00	-62.66
781.75	-74.54	-70.49	-1.70	-2.35	-13.00	-61.54
3590.00	-52.01	-58.37	12.30	-5.94	-13.00	-39.01

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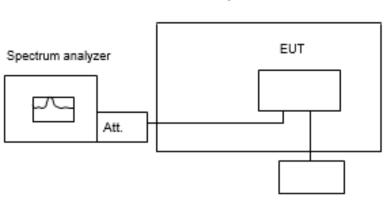
10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Temperature Chamber

10.2 Test Set-up



Variable DC Power Supply

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25° C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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Note: Measurement setup for testing on Antenna connector

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10.4 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020		
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021		
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021		
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020		
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021		
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021		
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021		

10.5 Measurement Result

Note: The battery is rated 3.85V dc.

NR Band 2					
Modulation .:	CP-OFI	om qpsk		Reference Freq.:	
SCS.:	15	kHz	1880	MHz 20M CH 376000	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
	Freq.	ERROR vs. VO	LTAGE		
4.35	25	1880.000026	26	4700	
3.85	25	1879.999989	-11	4700	
3.65	25	1880.000012	12	4700	
3.35 (End Point)	25	1880.000007	7	4700	
	Fre	q. ERROR vs. 1	Temp.		
3.85	-30	1880.000030	30	4700	
3.85	-20	1880.000005	5	4700	
3.85	-10	1880.000017	17	4700	
3.85	0	1879.999982	-18	4700	
3.85	10	1879.999996	-4	4700	
3.85	20	1879.999977	-23	4700	
3.85	30	1879.999976	-24	4700	
3.85	40	1880.000020	20	4700	
3.85	50	1879.999993	-7	4700	

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		NR Band 5		
Modulation .:	CP-OF	DM QPSK		Reference Freq.:
SCS.:	15	kHz	836.5	MHz 20M CH 167300
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. VO	LTAGE	
4.35	25	836.500015	15	2091
3.85	25	836.500013	13	2091
3.65	25	836.500011	11	2091
3.35	25	926 400000	-10	2091
(End Point)	25	836.499990	-10	2091
	Fre	q. ERROR vs. T	emp.	
3.85	-30	836.500005	5	2091
3.85	-20	836.499983	-17	2091
3.85	-10	836.500008	8	2091
3.85	0	836.499985	-15	2091
3.85	10	836.499977	-23	2091
3.85	20	836.500011	11	2091
3.85	30	836.499977	-23	2091
3.85	40	836.499993	-7	2091
3.85	50	836.499999	-1	2091
		NR Band 41		
Modulation .:	CP-OFI	om QPSK		Reference Freq .:
SCS.:	30	kHz	2592.99	MHz 100M CH 518598
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. VO	LTAGE	
4.35	25	2592.990001	1	6482
3.85	25	2592.989972	-28	6482
3.65	25	2592.990002	2	6482
3.35	25	2592.990005	5	6482
(End Point)	20	2392.990005	5	0402
	Fre	q. ERROR vs. T	emp.	
3.85	-30	2592.989972	-28	6482
3.85	-20	2592.989971	-29	6482
3.85	-10	2592.989996	-4	6482
3.85	0	2592.990005	5	6482
3.85	10	2592.989971	-29	6482
3.85	20	2592.990020	20	6482
3.85	30	2592.990025	25	6482
3.85	40	2592.990007	7	6482
3.85	50	2592.990008	8	6482

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		NR Band 66		
Modulation .:	CP-OF	DM QPSK		Reference Freq .:
SCS.:	15	kHz	1745	MHz 20M CH 349000
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		ERROR vs. VO	LTAGE	
4.35	25	1745.000006	6	4363
3.85	25	1744.999980	-20	4363
3.65	25	1744.999998	-2	4363
3.35	2E	1744 000004	L	4242
(End Point)	25	1744.999994	-6	4363
	Fre	q. ERROR vs. T	emp.	
3.85	-30	1745.000004	4	4363
3.85	-20	1745.000003	3	4363
3.85	-10	1745.000018	18	4363
3.85	0	1745.000007	7	4363
3.85	10	1744.999979	-21	4363
3.85	20	1744.999984	-16	4363
3.85	30	1744.999994	-6	4363
3.85	40	1745.000018	18	4363
3.85	50	1744.999972	-28	4363
		NR Band 71		
Modulation .:	CP-OFI	om opsk		Reference Freq .:
SCS.:	15	kHz	680.5	MHz 20M CH 136100
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. VO	LTAGE	
4.35	25	680.499985	-15	1701
3.85	25	680.499996	-4	1701
3.65	25	680.500000	0	1701
3.35	25	680.500012	12	1701
(End Point)				1701
		q. ERROR vs. T		
3.85	-30	680.499990	-10	1701
3.85	-20	680.499976	-24	1701
3.85	-10	680.500005	5	1701
3.85	0	680.500023	23	1701
3.85	10	680.499979	-21	1701
3.85	20	680.499988	-12	1701
3.85	30	680.500010	10	1701
3.85	40	680.499971	-29	1701
3.85	50	680.499993	-7	1701

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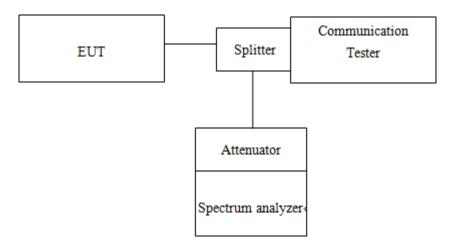


11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2 Test SET-UP



11.3 Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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11.5 Measurement Result

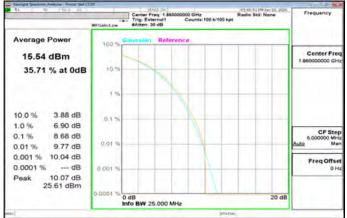
NR BAND 2				NR BAND 5				
CP-OFDM_SCS 15 kHz				CP-OFDM_SCS 15 kHz				
Channel bandwidth: 20MHz				Channel bandwidth: 20MHz				
Freq. CH	PAPR (dB)		Freq.	СН	PAPR (dB)			
(MHz)	CIT	256QAM	Limit	(MHz)	CII	256QAM	Limit	
1860.0	372000	8.68	13	834.0	166800	8.29	13	
1880.0	376000	8.56	13	836.5	167300	7.71	13	
1900.0	380000	8.69	13	839.0	167800	7.10	13	
	NR BAN	ND 41		NR BAND 66				
CP-OFDM_SCS 30 kHz				CP-OFDM_SCS 15 kHz				
Channel bandwidth: 100MHz				Channel bandwidth: 20MHz				
Freq. (MHz) CH	сц	PAPR (dB)		Freq.	<u></u>	PAPR (dB)		
(MHz)	СП	256QAM	Limit	(MHz)	СН	256QAM	Limit	
(MHz) 2546.01	509202	256QAM 11.44	Limit 13	(MHz) 1720	344000	256QAM 8.33	Limit 13	
. ,	-						-	
2546.01	509202	11.44	13	1720	344000	8.33	13	
2546.01 2592.99	509202 518598	11.44 11.39	13 13	1720 1745 1770	344000 349000	8.33 8.56	13 13	
2546.01 2592.99	509202 518598	11.44 11.39 11.34	13 13 13 NR BAN	1720 1745 1770	344000 349000 354000	8.33 8.56	13 13	
2546.01 2592.99	509202 518598	11.44 11.39 11.34 CP-0	13 13 13 NR BAN OFDM_S	1720 1745 1770 ND 71	344000 349000 354000 z	8.33 8.56	13 13	
2546.01 2592.99	509202 518598	11.44 11.39 11.34 CP-0	13 13 NR BAN OFDM_S rel bandv	1720 1745 1770 ND 71 CS 15 kH	344000 349000 354000 z IHz	8.33 8.56	13 13	
2546.01 2592.99	509202 518598	11.44 11.39 11.34 CP-(Chann	13 13 13 NR BAN OFDM_S	1720 1745 1770 ND 71 CS 15 kH vidth: 20W	344000 349000 354000 z HZ (dB)	8.33 8.56	13 13	
2546.01 2592.99	509202 518598	11.44 11.39 11.34 CP-0 Chann Freq.	13 13 NR BAN OFDM_S rel bandv	1720 1745 1770 ND 71 CS 15 kH vidth: 20W PAPR	344000 349000 354000 z HZ (dB)	8.33 8.56	13 13	
2546.01 2592.99	509202 518598	11.44 11.39 11.34 CP-0 Chann Freq. (MHz)	13 13 NR BAN OFDM_S iel bandv CH	1720 1745 1770 ND 71 CS 15 kH vidth: 20W PAPR 256QAM	344000 349000 354000 z Hz (dB) Limit	8.33 8.56	13 13	

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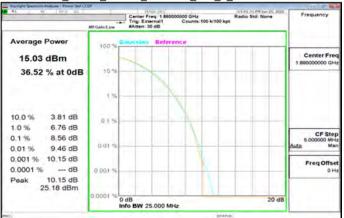
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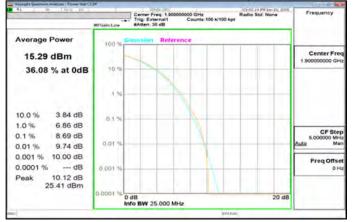
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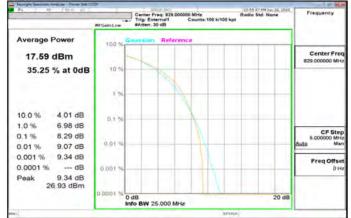
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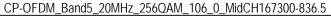


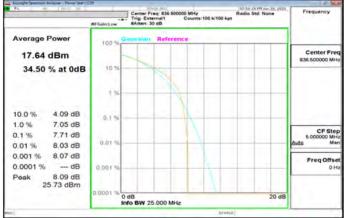
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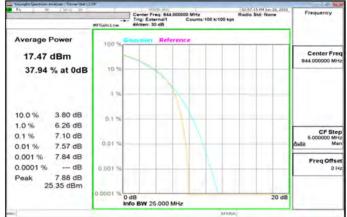
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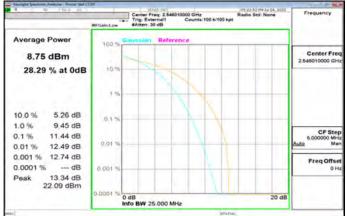
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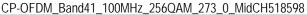
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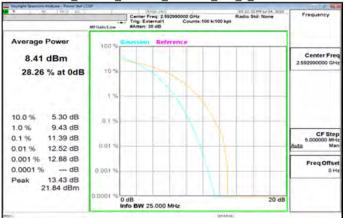
Member of SGS Group



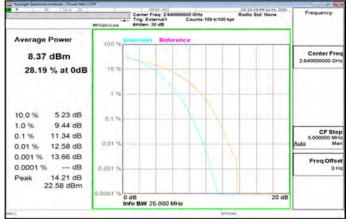
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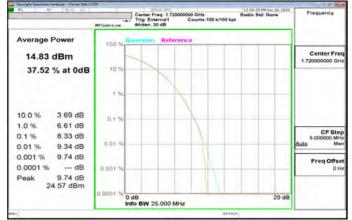


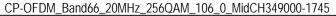


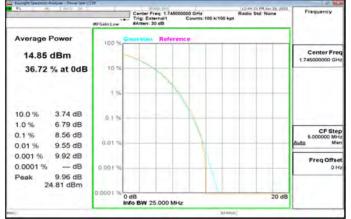
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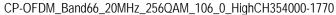


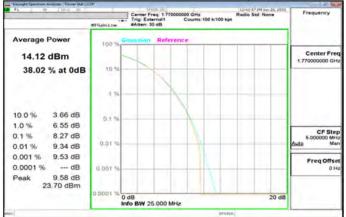
CP-OFDM_Band66_20MHz_256QAM_106_0_LowCH344000-1720











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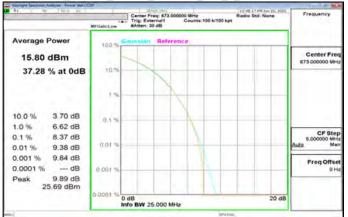
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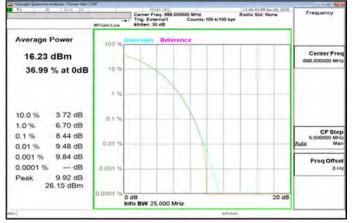
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CP-OFDM_Band71_20MHz_256QAM_106_0_MidCH136100-680.5



CP-OFDM_Band71_20MHz_256QAM_106_0_HighCH137600-688



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