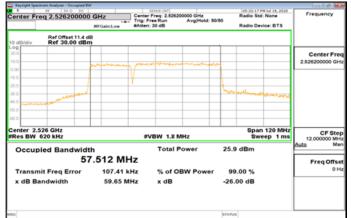
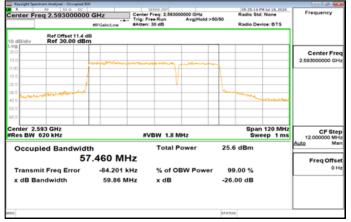




Band41_20MHz_40MHz_CP_64QAM_106_0_Main_Low

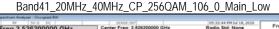


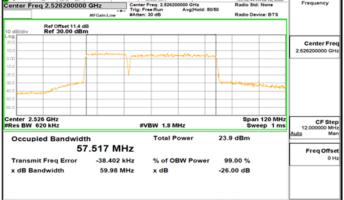


Band41 20MHz 40MHz CP 64QAM 106 0 Main Mid

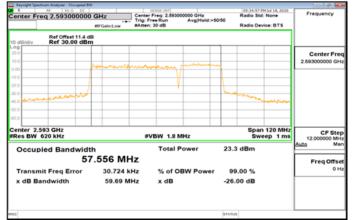
Band41_20MHz_40MHz_CP_64QAM_106_0_Main_High







Band41_20MHz_40MHz_CP_256QAM_106_0_Main_Mid



Band41_20MHz_40MHz_CP_256QAM_106_0_Main_High

Keysight Spectrum Analyzer	- Occupied BW	SENSE INT	05-41-27 P	H 3 J 18, 2020
Center Freq 2.65		Center Freq: 2.65990000 Trig: Free Run		
	#FGain:		Radio Dev	ice: BTS
10 dB/div Ref 3	fset 11.4 dB 0.00 dBm			
20.0				Center Fre 2.659900000 GH
0.00	m	mante and a start of the start		
20.0		Y		
10.0 40.0	lawy and		& when a work with a second se	
0.0				
enter 2.66 GHz Res BW 620 kHz		#VBW 1.8 MHz		120 MHz CF Ste ep 1 ms 12.000000 M
Occupied Ba	ndwidth	Total Pow	ver 23.6 dBm	Auto M
	57.633	MHz		Freq Offs
Transmit Freq	Error 12	0.64 kHz % of OBW	/ Power 99.00 %	0
x dB Bandwidt	h 59	.81 MHz x dB	-26.00 dB	
90			STATUS	

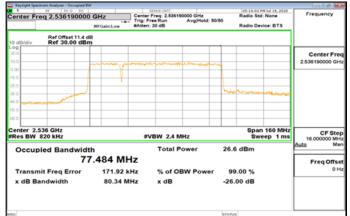
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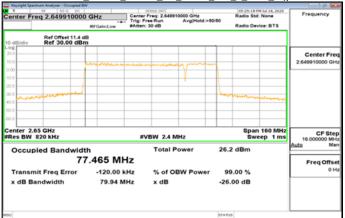
Band41_20MHz_60MHz_CP_QPSK_162_0_Main_Low

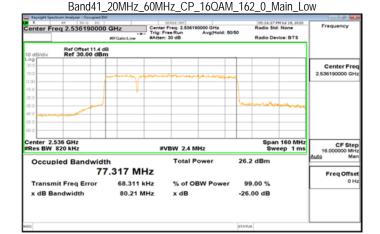




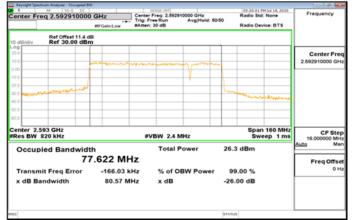
Band41_20MHz_60MHz_CP_QPSK_162_0_Main_Mid

Band41_20MHz_60MHz_CP_QPSK_162_0_Main_High





Band41_20MHz_60MHz_CP_16QAM_162_0_Main_Mid



Band41_20MHz_60MHz_CP_16QAM_162_0_Main_High

Center Freq 2	50 0 DC 2.649910000	GHz #FGein:Low	Center Freq: 2.6 Trig: Free Run #Atten: 30 dB	49910000 GHz Avg Hold: (Radio 50/50	5:40 PMJJJ 18, 2020 Std: None Device: BTS	Frequency
10 dB/div	tef Offset 11.4 di Ref 30.00 dBn						
20.0		-	-provincia dagono.				Center Fre 2.649910000 GH
0.00				1			
10.0 40.0	morrowal				- martin		
50.0 60.0							
enter 2.65 G Res BW 820			#VBW 2	4 MHz		pan 160 MHz Sweep 1 ms	CF Ste 16.00000 Mi
Occupied	Bandwidt 77	^ь 7.557 МН		al Power	26.0 dBn	n	Auto Mi
Transmit F x dB Band		-113.28 k 80.27 M		f OBW Power B	99.00 % -26.00 di	-	01
90					STATUS		

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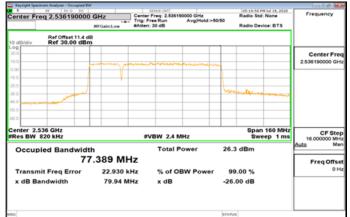
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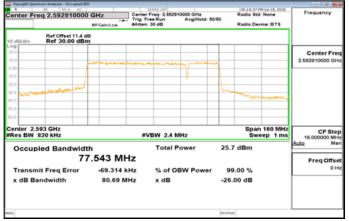
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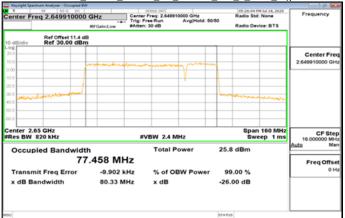
Band41_20MHz_60MHz_CP_64QAM_162_0_Main_Low



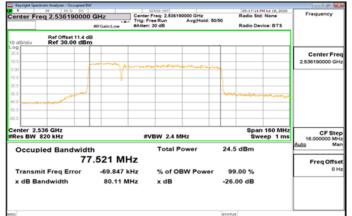


Band41_20MHz_60MHz_CP_64QAM_162_0_Main_Mid

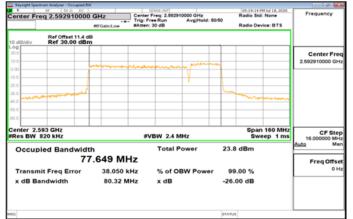
Band41_20MHz_60MHz_CP_64QAM_162_0_Main_High







Band41_20MHz_60MHz_CP_256QAM_162_0_Main_Mid



Band41_20MHz_60MHz_CP_256QAM_162_0_Main_High

Keysight Spectrum	Analyzer - Occupied B	N	SENSE INT		100.00.00	PM 3ul 18, 2020	
	2.649910000	GHz	Center Freq: 2.6491		Radio St		Frequency
		#FGain:Low	#Atten: 30 dB	Avg[Hold:>50		vice: BTS	
0 dB/div	Ref Offset 11.4 d Ref 30.00 dBr						
0.0							Center Fre
0.0		- manage		mymme			2.649910000 Gi
0.0				¥			
0.0					horas		
0.0							
0.0							
enter 2.65 G Res BW 820			#VBW 2.41	MHz		n 160 MHz eep 1 ms	CF Sto 16.00000 M
Occupie	d Bandwid	th	Total	Power	23.7 dBm		<u>Auto</u> M
	77	7.544 MH	Ηz				Freq Offs
Transmit I	Freq Error	26.088	Hz % of C	BW Power	99.00 %		0
x dB Band	lwidth	80.35 N	IHz x dB		-26.00 dB		
0					STATUS		

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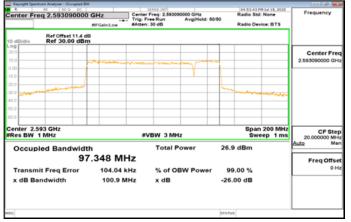
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Band41_20MHz_80MHz_CP_QPSK_217_0_Main_Low

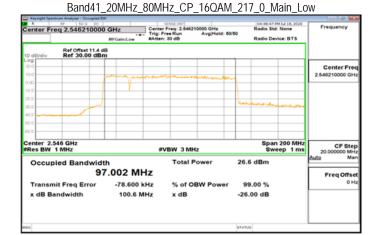




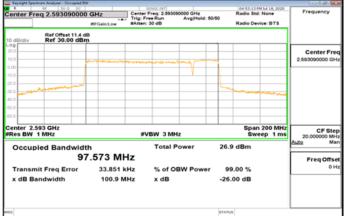
Band41 20MHz 80MHz CP QPSK 217 0 Main Mid

Band41_20MHz_80MHz_CP_QPSK_217_0_Main_High





Band41_20MHz_80MHz_CP_16QAM_217_0_Main_Mid



Band41_20MHz_80MHz_CP_16QAM_217_0_Main_High

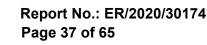


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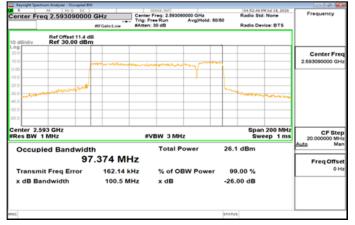
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Band41_20MHz_80MHz_CP_64QAM_217_0_Main_Low

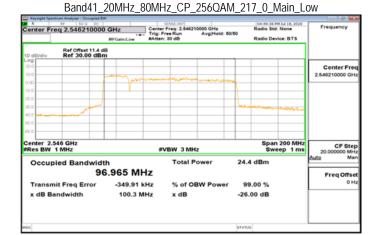




Band41 20MHz 80MHz CP 64QAM 217 0 Main Mid

Band41_20MHz_80MHz_CP_64QAM_217_0_Main_High

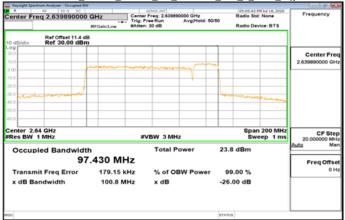




Band41_20MHz_80MHz_CP_256QAM_217_0_Main_Mid



Band41_20MHz_80MHz_CP_256QAM_217_0_Main_High



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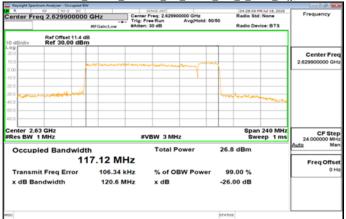
Band41_20MHz_100MHz_CP_QPSK_273_0_Main_Low

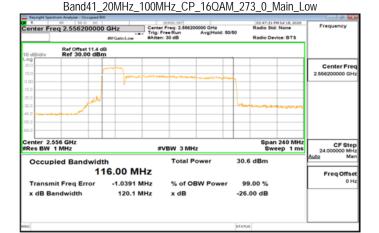




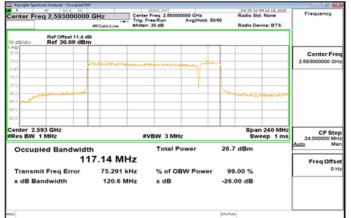
Band41_20MHz_100MHz_CP_QPSK_273_0_Main_Mid

Band41_20MHz_100MHz_CP_QPSK_273_0_Main_High





Band41_20MHz_100MHz_CP_16QAM_273_0_Main_Mid



Band41_20MHz_100MHz_CP_16QAM_273_0_Main_High

Center Freq 2.629900	000 GHz Cent	er Freq: 2.629900000 GHz Free Run Avg[Hold: 50 m: 30 dB	150 Radio Device: BTS	Frequency
10 dB/div Ref 30.00				
20.0	104/18/00/00/00/00/00/00/00/00/00/00/00/00/00	warman and a second	~	Center Fre 2.629900000 GH
0.00				
20.0 30.0 40.0	لسا		Lawrence	
50.0				
Center 2.63 GHz Res BW 1 MHz		#VBW 3 MHz	Span 240 MHz Sweep 1 ms	CF Ste 24.000000 MH
Occupied Bandw	vidth 117.30 MHz	Total Power	26.7 dBm	Auto Ma
Transmit Freq Erro x dB Bandwidth	er 84.706 kHz 120.5 MHz	% of OBW Power x dB	99.00 % -26.00 dB	01
2			STATUS	

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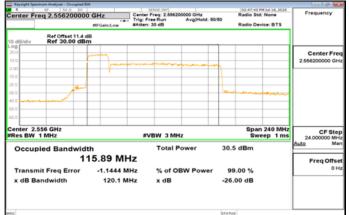
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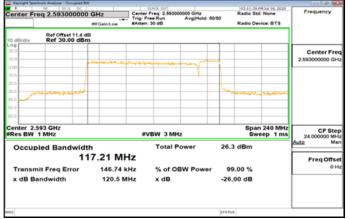
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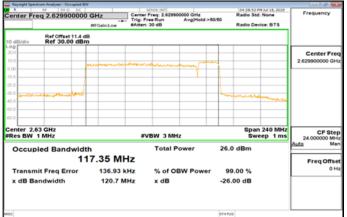
Band41_20MHz_100MHz_CP_64QAM_273_0_Main_Low

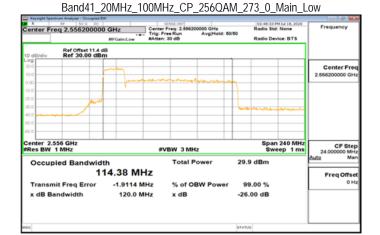




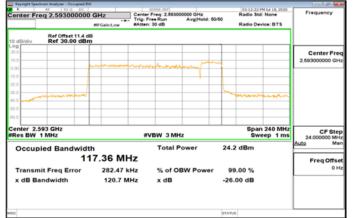
Band41_20MHz_100MHz_CP_64QAM_273_0_Main_Mid

Band41_20MHz_100MHz_CP_64QAM_273_0_Main_High





Band41 20MHz 100MHz CP 256QAM 273 0 Main Mid



Band41_20MHz_100MHz_CP_256QAM_273_0_Main_High

Storage Statutum Adager - Coupled BW Storage Statutum Adager - Coupled BW 64/26/27 H/M 18, 2026 Inter Freq 2,6229900000 GHz Center Freg 2,622900000 GHz 64/26/27 H/M 18, 2026 Trig: Freg Xun Adager - Couple BW Adge Statutum Adager - Couple BW Radio Stati None					
Ref Offset 11.4	MFGain:Low	#Atten: 30 dB		Radio Device: B	TS
0 dB/div Ref 30.00 dB		الجناحية مقيطية وراسطم	-m		Center Fre 2.629900000 GH
0.0 0.0 0.0 0.0 0.0 0.0				10 minutes	
enter 2.63 GHz Res BW 1 MHz		#VBW 3 MH		Span 240 Sweep	
Occupied Bandwid 1 Transmit Freg Error	17.17 MH 238.39 kl			4.7 dBm 99.00 %	Freq Offs
x dB Bandwidth	120.5 M	Hz xdB	-2	26.00 dB	
0			87	ATUS	

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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.

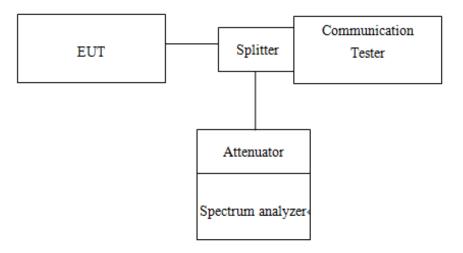
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8.2 Test SET-UP



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

modour officint Ex	1000	•			
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.

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

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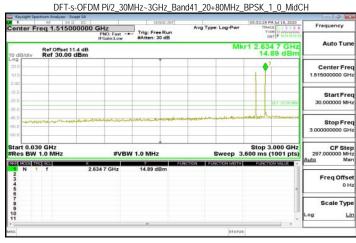
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Out of Band Emission

DFT-s-OFDM Pi/2_30MHz~3GHz_Band41_20+80MHz_BPSK_1_0_LowCH

🧱 Keysight Spectrum Analyzer		100 C 100	10	and the second second second	0 4 2
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Start 0.030 GHz #Res BW 1.0 MHz	#VB	W 1.0 MHz	Sweep 3	Stop 3.000 GHz .600 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
1 N 1 f 2 3 4 5	2.498 1 GHz	14.97 dBm			Freq Offse 0 H
6 7 8 9 10 11					Scale Type
*		н	STATUS		



DFT-s-OFDM Pi/2_30MHz~3GHz_Band41_20+80MHz_BPSK_1_0_HighCH

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DFT-s-OFDM Pi/2_30MHz~3GHz_Band41_20+80MHz_BPSK_216_0_LowCH

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DFT-s-OFDM Pi/2_30MHz~3GHz_Band41_20+0MHz_BPSK_216_0_HighCH

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DFT-s-OFDM Pi/2_3GHz~26GHz_Band41_20+80MHz_BPSK_1_0_LowCH

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Start Fre 3.000000000 GF	0.1 -3120 Mg								A2		
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DFT-s-OFDM Pi/2_3GHz~26GHz_Band41_20+80MHz_BPSK_1_0_HighCH

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DFT-s-OFDM Pi/2_3GH:	z~26GHz_Band	41_20+80MHz_B	PSK_216_0_LowC	Н
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1 N 1 f 2 N 1 f 3 N 1 f 4 5	3.680 GHz -35.55 dBm 6.112 GHz -38.23 dBm 7.669 GHz -40.67 dBm			Freq Offse 0 H			
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DFT-s-OFDM Pi/2_3GHz~26GHz_Band41_20+80MHz_BPSK_216_0_MidCH

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IFGenet.11 /r Auto Tune 0 dBdw/r Ref 33.00 dBm -41.98 dBm 200 -41.98 dBm -41.98 dBm 201 -41.98 dBm -41.98 dBm 202 -41.98 dBm -41.98 dBm 203 -41.98 dBm -41.98 dBm 204 -41.98 dBm -41.98 dBm 205 -41.98 dBm -41.98 dBm 206 -41.98 dBm -41.98 dBm 207 -41.98 dBm -41.98 dBm 208 -41.98 dBm -41.98 dBm 200000000 GHz -41.98 dBm -41.9	Center F		0000 GHz		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency		
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DFT-s-OFDM Pi/2_3GHz~26GHz_Band41_20+80MHz_BPSK_216_0_HighCH

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*					н		stane	1	1 (*)	

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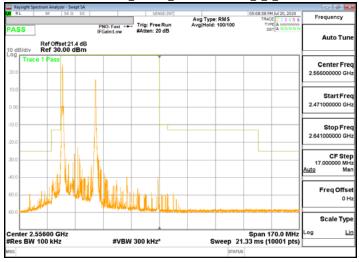
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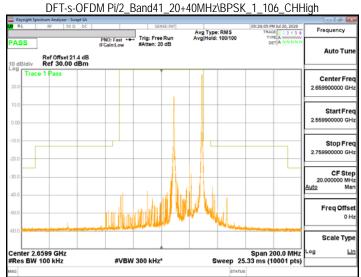
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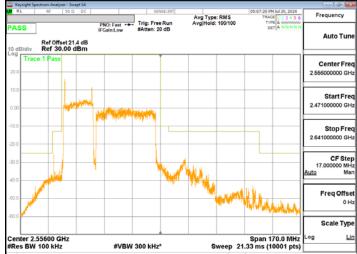
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Mask DFT-s-OFDM Pi/2 Band41 20+40MHz\BPSK 1 0 CHLow





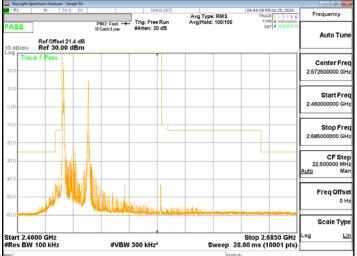
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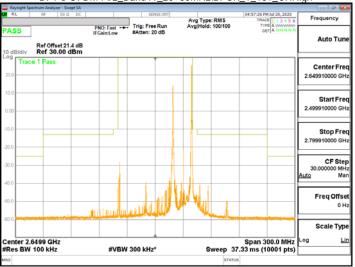
DFT-s-OFDM Pi/2 Band41 20+40MHz\BPSK 100 0 CHHigh







DFT-s-OFDM Pi/2 Band41 20+60MHz\BPSK 1 161 CHHigh



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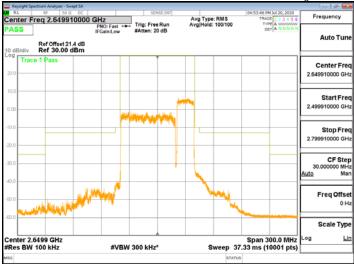


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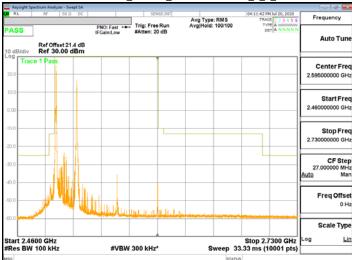
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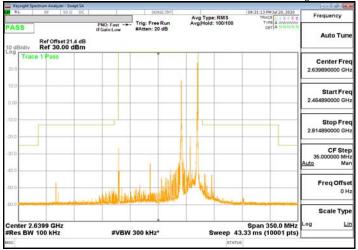
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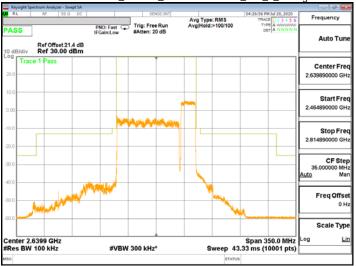
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DFT-s-OFDM Pi/2_Band41_20+80MHz\BPSK_216_0_CHLow



DFT-s-OFDM Pi/2 Band41 20+80MHz\BPSK 216 0 CHHigh



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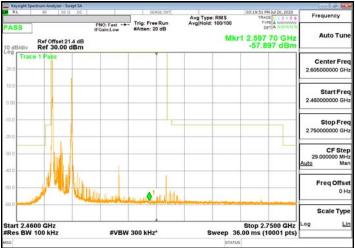
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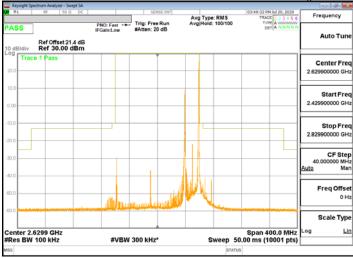


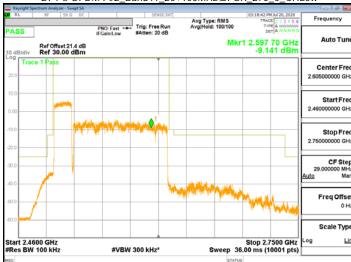
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DFT-s-OFDM Pi/2_Band41_20+100MHz\BPSK_1_0_CHLow



DFT-s-OFDM Pi/2_Band41_20+100MHz\BPSK_1_272_CHHigh



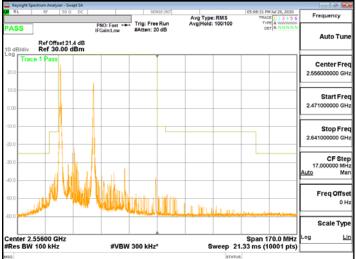


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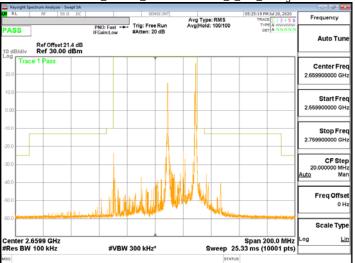
DFT-s-OFDM Pi/2_Band41_20+100MHz\BPSK_270_0_CHHigh



CP-OFDM_Band41_20+40MHz\QPSK_1_0_CHLow



CP-OFDM_Band41_20+40MHz\QPSK_1_105_CHHigh



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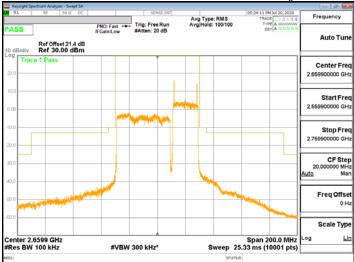


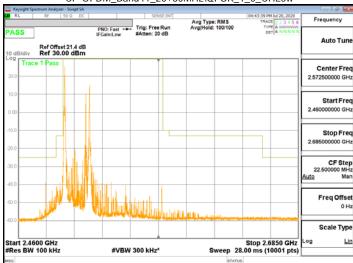
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CP-OFDM_Band41_20+40MHz\QPSK_106_0_CHLow



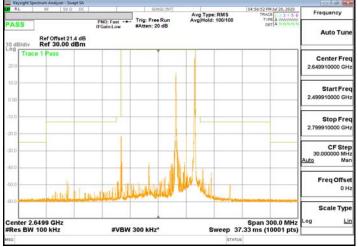
CP-OFDM_Band41_20+40MHz\QPSK_106_0_CHHigh





CP-OFDM_Band41_20+60MHz\QPSK_1_0_CHLow

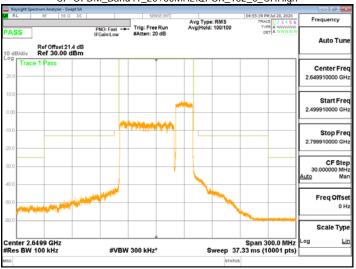
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CP-OFDM_Band41_20+60MHz\QPSK_162_0_CHLow



CP-OFDM Band41 20+60MHz\QPSK 162 0 CHHigh



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