



Plot 7-77. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM QPSK - Full RB)

Spectrum Analyzer Occupied BW	¹ • +						Trace	- 7 米
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.535 Avg Hold: 100/100 Radio Std: None	000000 GHz	Select Trace Trace 1	
1 Graph	•						Trace Type	Trace Control
Scale/Div 10.0 dB			Ref Value 40.00 dB	m	h			Math
30.0							Trace Average	
			and the second	han some the Arter that			Max Hold	Detector
		/					Min Hold	Trace Function
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-10.0		un and and			and the second		Restart Max Hold	Auvanceu
-30.0 -30.0	wall market the work				mar and the te	madelhankunde	View/Blank	1
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							View	
Center 2.53500 GH #Res BW 820.00 k			Video BW 8.0000 M	Hz	s	Span 75 MH weep 1.00 ms (1001 pts		
2 Metrics	Ŧ						Background	
0	ccupied Bandwidth			Measure Tra	ce Trace 1			
	28.817	MHz		Total Power		31.6 dBm		
	ansmit Freq Error	5.153 kHz 30.73 MHz		% of OBW Po x dB		99.00 % 26.00 dB		
		00.10 11112		x 40		E0.00 dB		Local
160		5, 2022 💬 🛆						

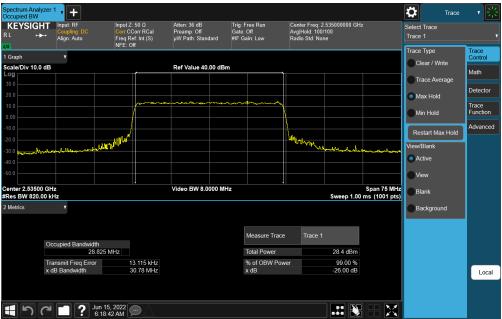
Plot 7-78. Occupied Bandwidth Plot (NR Band n7 - 30MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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Plot 7-79. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM 64-QAM - Full RB)



Plot 7-80. Occupied Bandwidth Plot (NR Band n7 - 30MHz DFT-s-OFDM 256-QAM - Full RB)

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KEYSIG⊦ ⊥ →	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.535000000 GHz Avg Hold:>100/100 Radio Std: None		Select Trace Trace 1	
Graph	•		L		I		Trace Type Clear / Write	Trace Control
ale/Div 10.0	dB		Ref Value 40.00 dB	m			Clear / Write	Math
) g							Trace Average	
							Max Hold	Detector
								Trace
		/					Min Hold	Function
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0.0	and the second days	<i>Y</i>			with which we have	montrown		
							View/Blank	
							 Active 	
							View	
nter 2.53500 es BW 1.000		•	Video BW 8.0000 MI	Hz	Sween 4 00	Span 80 MHz ms (1001 pts)	Blank	
letrics	v v				Sweep 1.00	ins (1001 pts)	Background	
							Dackground	
				Measure Tra	ce Trace 1			
	Occupied Bandwidth 38.693	MHz		Total Power	33.9 dBm			
	Transmit Freq Error	18.541 kHz		% of OBW Po	ower 99.00 %			
	x dB Bandwidth	41.08 MHz		x dB	-26.00 dB			Loca

Plot 7-81. Occupied Bandwidth Plot (NR Band n7 - 40MHz DFT-s-OFDM π/2 BPSK - Full RB)

KEYSIGH └ ↔	Coupling: DC	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2 Avg Hold: 100 Radio Std: No		Select Trace Trace 1	
Graph	•	111 2. 011					Trace Type	Trace Control
ale/Div 10.0 c	lΒ		Ref Value 40.00 dB	m			Clear / Write	Math
og 0.0							Trace Average	Weth
0.0								Detecto
		Jan an mon	man	and the second second	many		Max Hold	Trace
0.0							Min Hold	Function
0.0								Advance
		/					Restart Max Hold	
0.0 annelle	Mannes market					and with which	View/Blank	
0.0							 Active 	
0.0							View	
							View	
nter 2.53500 es BW 1.0000			Video BW 8.0000 M	Hz		Span Sweep 1.00 ms (10	80 MHz Blank	
Vetrics	V					Sweep 1.50 ms (10	Background	
				Measure Tra	ce Trace 1			
	Occupied Bandwidth 38.805	MHz		Total Power		31.9 dBm		
	Transmit Freg Error	-56.213 kHz		% of OBW Po	ower	99.00 %		
	x dB Bandwidth	41.13 MHz		x dB		-26.00 dB		Loca

Plot 7-82. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM QPSK - Full RB)

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Plot 7-83. Occupied Bandwidth Plot (NR Band n7 - 40MHz DFT-s-OFDM 16-QAM - Full RB)

Spectrum Analyz Occupied BW	zer 1 🗸 🕂						Trace	- 7 絵
	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.53500000 Avg Hold: 100/100 Radio Std: None	0 GHz	Select Trace Trace 1	
1 Graph							Trace Type	Trace Control
Scale/Div 10.0 d	βB		Ref Value 40.00 dBr	n			Clear / Write	Math
Log 30.0							Trace Average	
				an Alway on Marke	al		Max Hold	Detector
							Min Hold	Trace Function
-10.0	all and the second				Where we are a second s		Restart Max Hold	Advanced
-30.0	and a start and a start and a start a				- Allowed a liter	and the advantage of	View/Blank Active	
							View	
Center 2.53500 #Res BW 1.000			Video BW 8.0000 MH	iz	Sween	Span 80 MHz 1.00 ms (1001 pts)	~	
2 Metrics	۲						Background	
				Measure Tra	ce Trace 1			
	Occupied Bandwidth				04.5.1			
	38.773 M Transmit Freg Error	-23.086 kHz		Total Power % of OBW Po	31.5 d			
	x dB Bandwidth	-23.086 KHZ 41.16 MHz		x dB	-26.00			Local
1 50	Jun 15, 1:51:03	2022 3 AM						

Plot 7-84. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM 64-QAM - Full RB)

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EYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.535000000 GHz Avg Hold: 100/100 Radio Std: None	Select Trace Trace 1	
raph	•					Trace Type	Trace Control
le/Div 10.0 dB			Ref Value 40.00 dB	m			Math
0						Trace Average	
						Max Hold	Detecto
						Min Hold	Trace Functio
						Restart Max Hold	Advanc
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	moundant				Mummenne	North View/Blank	
						 Active 	
						View	
ter 2.53500 GH s BW 1.0000 N			Video BW 8.0000 MI	Hz	Spai Sweep 1.00 ms ('	N 80 MHz Blank	
etrics	•					Background	
_				Measure Trace	e Trace 1		
Oc.	cupied Bandwidth 38.711	MHz		Total Power	28.4 dBm		
	ansmit Freq Error IB Bandwidth	-18.826 kHz 41.09 MHz		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Lo

Plot 7-85. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM 256-QAM - Full RB)

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NR Band n41



Plot 7-86. Occupied Bandwidth Plot (NR Band n41 - 20MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-87. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM QPSK - Full RB)

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Plot 7-88. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM 16-QAM - Full RB)

Spectrum Analyze Occupied BW	r 1 🔻 🕇						Trace	، ا
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 GH Avg Hold: 100/100 Radio Std: None	z	Select Trace Trace 1	
1 Graph Scale/Div 10.0 dl	•		Ref Value 40.00 dBr	n			Trace Type Clear / Write	Trace Control
Log 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0	malan Markhall Mark				Marcely Monoran		 Trace Average Max Hold Min Hold Restart Max Hold View/Blank 	Math Detector Trace Function Advanced
-40.0 -50.0 Center 2.59302 G Res BW 470.00 k 2 Metrics			#Video BW 1.5000 M	Hz	Sweep 1.00	Span 50 MHz ms (1001 pts)	 Active View Blank Background 	
	Occupied Bandwidth 18.419 ransmit Freq Error dB Bandwidth	9 MHz 3.637 kHz 23.35 MHz		Measure Trace Total Power % of OBW Pow x dB	33.8 dBm			Local
<u>ר ד</u>		25, 2022 5:35 AM						

Plot 7-89. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM 64-QAM - Full RB)

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Plot 7-90. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM 256-QAM - Full RB)

KEYSIGH	T Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 Avg Hold: 100/100 Radio Std: None	GHz	Select Trace Trace 1	
Graph cale/Div 10.0 c	v B		Ref Value 40.00 dBi	n			Trace Type Clear / Write	Trace Control Math
og 000000000000000000000000000000000000			#Video EW 2.4000 M	Hz		Span 75 MHz	 Trace Average Max Hold Min Hold Restart Max Hold View/Blank Active View Blank 	Detector Trace Function Advance
Metrics	V Occupied Bandwidth 27.15 Transmit Freq Error x dB Bandwidth	11 MHz -524.82 kHz 29.76 MHz 25, 2022		Measure Trace Total Power % of OBW Pow x dB	e Trace 1 37.0 dB ver 99.00 -26.00 d	%	Background	Loc

Plot 7-91. Occupied Bandwidth Plot (NR Band n41 - 30MHz DFT-s-OFDM π/2 BPSK - Full RB)

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KEYSIG	HT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: Avg Hold: 10 Radio Std: N		Select Trace Trace 1	
Graph	•						Trace Type	Trace Control
cale/Div 10.	.0 dB		Ref Value 40.00 dBr	m			Clear / Write	Math
30.0							Trace Average	Math
20.0								Detector
10.0		Junour	a way have been	and the second			Max Hold	Trace
0.00		/					Min Hold	Function
10.0					1			Advance
20.0	non marked wards	and the second s				when the stand	Restart Max Hold	
30.0							View/Blank	
							 Active 	
							View	
enter 2.5930			#Video BW 2.4000 M			Span ²	75 MHz Blank	
es BW 680.0			#VIGEO DVV 2.4000 IN	112		Sweep 1.00 ms (10		
Metrics	•						Background	
				Measure Tra	ice Trace	1		
	Occupied Bandwidth				indeo			
		3 MHz		Total Power		34.6 dBm		
				% of OBW P	ower	99.00 % -26.00 dB		
	Transmit Freq Error	-5.261 kHz 30 19 MHz		x dB				
		-5.261 kHz 30.19 MHz		x dB		-20.00 UB		Loc
	Transmit Freq Error			x dB		-20.00 dB		Loca

Plot 7-92. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM QPSK - Full RB)

Spectrum Anal Occupied BW								Trace	·
KEYSIGI RLT ↔	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre Avg Hold: Radio Std:			Select Trace Trace 1	•
1 Graph	•	NI E. 01						Trace Type	Trace Control
Scale/Div 10.0	dB		Ref Value 40.00 dB	m				Clear / Write	Math
Log 30.0								Trace Average	
20.0		men	and the second and the second second	my mar	1			 Max Hold 	Detector
10.0								Min Hold	Trace Function
	المريد والمريد	Mush way			honor	ne innder helge		Restart Max Hold	Advanced
-20.0 Jm/hum	Mar mark your and						under Algorita	View/Blank	
								Active	
								Active	
-50.0								View	
Center 2.59302 Res BW 680.00		↓	#Video BW 2.4000 N	IHz	•		Span 75 MHz ms (1001 pts)	Blank	
2 Metrics	T							Background	
				Measure Tra					
	Occupied Bandwidth			measure Tra	ce Trac	:e 1			
		9 MHz		Total Power		34.8 dBm			
	Transmit Freq Error	394 Hz 30.32 MHz		% of OBW P	ower	99.00 % -26.00 dB			
	x dB Bandwidth	30.32 MHZ		x dB		-26.00 dB			Local
1 5		25, 2022 3:57 AM							

Plot 7-93. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM 16-QAM - Full RB)

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Plot 7-94. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM 64-QAM - Full RB)

Spectrum Analyzer Occupied BW							Trace	· ~ 影
KEYSIGHT RLT ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 (Avg Hold: 100/100 Radio Std: None	GHz	Select Trace Trace 1	
1 Graph							Trace Type	Trace Control
Scale/Div 10.0 dB			Ref Value 40.00 dBm	n			Clear / Write	
Log							Trace Average	Math
30.0								Detector
20.0		~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Max Hold	
10.0		/					Min Hold	Trace Function
0.00								Advanced
-10.0		work			monum		Restart Max Hold	Auvanceu
-20.0	all way and a start				mannan	and marked when	View/Blank	
-30.0							 Active 	
-40.0							- 	
-50.0							View	
Center 2.59302 GH Res BW 680.00 kHz			#Video BW 2.4000 MH	łz	Sweep 1.	Span 75 MHz 00 ms (1001 pts)	Blank	
2 Metrics	V						Background	
				Measure Trace	Trace 1			
Oc	cupied Bandwidth			Measure made				
	27.987 N	1Hz		Total Power	31.5 dBr	n		
	Insmit Freq Error B Bandwidth	-47.852 kHz 30.27 MHz		% of OBW Pow x dB	ver 99.00 9 -26.00 d			
× 4	o banuwiutn	-30.27 WHZ		Xub	-26.00 d			Local
- う つ	Jun 25, 4:42:3	2022 8 AM						

Plot 7-95. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-96. Occupied Bandwidth Plot (NR Band n41 - 40MHz DFT-s-OFDM π/2 BPSK - Full RB)

Spectrum Analyz Occupied BW	rer 1 🕇 🕇						₽	Trace	· * 🛞
KEYSIGH	T Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.5 Avg Hold: 100/1 Radio Std: None	00	Select Tra Trace 1	ce	
1 Graph Scale/Div 10.0 c	T IB		Ref Value 40.00 dBr	n			Trace Typ Clear		Trace Control
30.0							Trace	Average	Math Detector
10.0			lenser we with a second of the	And a second second			Min H		Trace Function
-10.0 -20.0 դրվի Арти (๛ _{๗๛} ๛๗ๅ๛๚๛๚	nstyne ad			a ware and	warrangelighter Maryaan	Restart	Max Hold	Advanced
-30.0							Active		
-50.0 Center 2.59302			#Video BW 3.0000 M	Hz		Span 100			
Res BW 910.00 2 Metrics	KHZ T					Sweep 1.00 ms (1001	pts) Backg	round	
				Measure Tra	ce Trace 1				
	Occupied Bandwidth 38.075			Total Power		33.5 dBm			
	Transmit Freq Error x dB Bandwidth	-1.909 kHz 40.34 MHz		% of OBW P x dB	ower	99.00 % -26.00 dB			Local
		25, 2022							
<u>ר</u> ר ד		25, 2022 2:19 AM					X		

Plot 7-97. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM QPSK - Full RB)

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(EYSIGI		Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: Avg Hold: 10 Radio Std: N		Select Trace Trace 1	
Fraph	•						Trace Type	Trace Control
ale/Div 10.0	0 dB		Ref Value 40.00 dB	im			Clear / Write	Math
g							Trace Average	Ividui
.0								Detecto
		mont	and the second		γ		Max Hold	Trace
o		l l					Min Hold	Functio
					1			Advand
0 minun	hundernalenter	and the state			and the second	mannen	Restart Max Hold	
0							View/Blank	1
0							 Active 	
0							View	
ter 2.5930 BW 910.0			#Video BW 3.0000 N	MHz		Span 10 Sweep 1.00 ms (100		
etrics	v						Background	
				Measure Tra	ace Trace	4		
	Occupied Bandwidth			Measure 112	ice fiace			
	38.067	MHz		Total Power		34.9 dBm		
	Transmit Freq Error	-16.516 kHz		% of OBW P x dB	ower	99.00 % -26.00 dB		_
	x dB Bandwidth	40.80 MHz		X dB		-26.00 dB		Loc

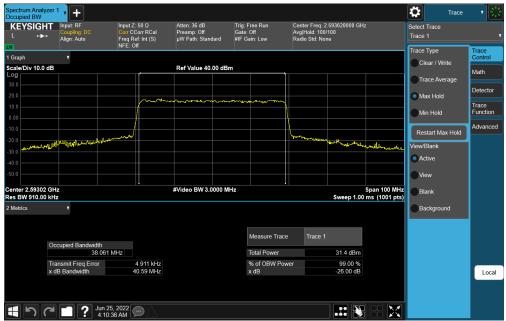
Plot 7-98. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM 16-QAM - Full RB)

20 Max Hold Trace 100 Max Hold Trace 100 Max Hold Max Hold 100 Max Hold M	Spectrum Analyze Occupied BW							Trace	· · [詳
I Graph Trace Type Trace Type Scale/Div 10.0 dB Ref Value 40.00 dBm Clear / Write Log Math Trace Average 200 Math Trace Average 000 Math Trace Average 000 Math Math 000 Math Trace Average 000 Math Math	RLT +	Coupling: DC	Corr CCorr RCal Freq Ref: Int (S)	Preamp: Off	Gate: Off	Avg Hold: 100/100	GHz		
Loog Trace Average Max Hold Detector 100 Image: State of the s	1 Graph Scale/Div 10.0 dE			Ref Value 40.00 dBn	n				Control
100 Min Hold Trace 100 Min Hold Restart Max Hold 200 Min Hold Restart Max Hold 201 Min Hold Restart Max Hold View/Blank Advice View 000 Min Hold Restart Max Hold Center 2.59302 GHz #Video BW 3.0000 MHz Span 100 MHz Sweep 1.00 ms (1001 pts) Blank Blank Blank	30.0								Detector
20	0.00							- -	Function
40	-20.0 page-angle-all	Hummen and				hallin man and			Advanced
Res BW 910.00 kHz Sweep 1.00 ms (1001 pts) 2 Metrics • Occupied Bandwidth 38.090 MHz Measure Trace Transmit Freq Error -60.161 kHz % of OBW Power 99.00 %	-40.0							- -	
Measure Trace Trace 1 Occupied Bandwidth 38.090 MHz Total Power Transmit Freq Error -60.161 kHz % of OBW Power 99.00 %	Res BW 910.00 ki	Hz		#Video BW 3.0000 Mł	Hz	Sweep 1		Blank	
Occupied Bandwidth 38.090 MHz Transmit Freq Error -60.161 kHz % of OBW Power 99.00 %	2 Metrics	T					_	Background	
	C		MHz				m		
									Local
		lun 2	5 2022						

Plot 7-99. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM 64-QAM - Full RB)

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Plot 7-100. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM 256-QAM - Full RB)

CCCUPIED BW KEYSIGHT RLT +++	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 G Avg Hold: 100/100 Radio Std: None	Hz	Select Trace Trace 1	
I Graph Scale/Div 10.0 dE Og 30.0 20.0 10.0			Ref Value 40.00 dBs	m			Trace Type Clear / Write Trace Average Max Hold Min Hold	Trace Control Math Detector Trace Function
0.00 10.0 20.0 30.0 40.0 50.0 Senter 2.59302 G			#Video BW 4.0000 M	Hz		Span 125 MHz	Restart Max Hold View/Blank Active View Blank	Advanced
es BW 1.2000 M Metrics	∀z ▼ ccupied Bandwidth			Measure Trace		10 ms (1001 pts)	Background	
	46.191 ansmit Freq Error dB Bandwidth	-958.07 kHz 49.33 MHz		Total Power % of OBW Pow x dB	ver 99.00 % -26.00 dE			Loca

Plot 7-101. Occupied Bandwidth Plot (NR Band n41 - 50MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 GH Avg Hold: 100/100 Radio Std: None	Iz	Select Trace Trace 1	
Graph cale/Div 10.0	dB	NI L. UI	Ref Value 40.00 dBr	n			Trace Type Clear / Write	Trace Control
og 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	and the second sec						 Trace Average Max Hold Min Hold Restart Max Hold View/Blank Active View 	Math Detector Trace Functior Advance
enter 2.59302 es BW 1.2000 Metrics			#Video BW 4.0000 MI	Hz	Sweep 1.00	Span 125 MHz) ms (1001 pts)	Blank Background	
	Occupied Bandwidth 47.802 Transmit Freq Error	-35.222 kHz		Measure Tra Total Power % of OBW Pr	35.4 dBm			
	x dB Bandwidth	51.20 MHz		x dB	-26.00 dB			Loci

Plot 7-102. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM QPSK - Full RB)

Spectrum Analy: Occupied BW							Trace	- * 崇
KEYSIGH RLT ↔→	Coupling: DC	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.55 Avg Hold: 100/10 Radio Std: None	93020000 GHz 0	Select Trace Trace 1	
1 Graph Scale/Div 10.0 d	dB		Ref Value 40.00 dB	lm			Trace Type Clear / Write	Trace Control Math
30.0 20.0							Trace Average	Detector
10.0 0.00							Min Hold	Trace Function
-10.0 -20.0					hourson	man and a store to be the	Restart Max Hold View/Blank	Advanced
-30.0							Active View	
Center 2.59302 Res BW 1.2000			#Video BW 4.0000 N	ſHz		Span 125 MH: Sweep 1.00 ms (1001 pts	Blank	
2 Metrics	•						Background	
	Occupied Bandwidth			Measure Tra	ice Trace 1			
	47.84 Transmit Freq Error x dB Bandwidth	1 MHz -24.508 kHz 51.03 MHz		Total Power % of OBW P x dB	ower	34.9 dBm 99.00 % -26.00 dB		
	X de Bandwidth	51.03 MHZ		X dB		-20:00 08		Local
1 50	a 🚺 ? Jun 1:5	25, 2022				 💦 🕂 🔀		

Plot 7-103. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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KEYSIGI RLT ↔	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 Avg Hold: 100/100 Radio Std: None	GHz	Select Trace Trace 1	
Graph				1			Trace Type	Trace Control
cale/Div 10.0	dB		Ref Value 40.00 dB	m			Clear / Write	Math
og 0.0		Í					Trace Average	Waut
20.0		Janean	-		-		 Max Hold 	Detecto
							Min Hold	Trace Function
0.0	Phone Decost of managements	e manual and			haventure		Restart Max Hold	Advance
0.0							View/Blank	
							Active	
							View	
enter 2.5930 es BW 1.200			#Video BW 4.0000 N	۹Hz	Sweep	Span 125 MHz 1.00 ms (1001 pts)	Blank	
Metrics	•						Background	
				Measure Tra	ce Trace 1			
	Occupied Bandwidth 47.781	1 MHz		Total Power	34.7 dE	3m		
	Transmit Freq Error	-43.532 kHz		% of OBW P	ower 99.00	%		
	x dB Bandwidth	50.89 MHz		x dB	-26.00	dB		Loca

Plot 7-104. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM 64-QAM - Full RB)

Spectrum Analyzer Occupied BW	¹ • +						Trace	· · 米
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 GH Avg Hold: 100/100 Radio Std: None		Select Trace Trace 1	
1 Graph Scale/Div 10.0 dB	•		Ref Value 40.00 dBm				Trace Type Clear / Write	Trace Control
Log 30.0 20.0 10.0 -10.0 -20.0 -20.0 -30.0						Hramenlaag-su	Trace Average Max Hold Min Hold Restart Max Hold View/Blank	Math Detector Trace Function Advanced
-40.0 -50.0 Center 2.59302 GH Res BW 1.2000 MH			#Video BW 4.0000 MH	12	Sweep 1.00	Span 125 MHz 9 ms (1001 pts)	 Active View Blank 	
2 Metrics	Cupied Bandwidth			Measure Trace	Trace 1		Background	
Tra	47.574 M ansmit Freq Error JB Bandwidth	1Hz -116.04 kHz 50.54 MHz		Total Power % of OBW Pow x dB	33.2 dBm ver 99.00 % -26.00 dB			Local
5	Jun 25, 1:56:1	,2022 0 AM						

Plot 7-105. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Spectrum Analy Occupied BW	/zer 1 🕇 🕇						Trace	، *
KEYSIGH	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2,593020000 GH Avg Hold: 100/100 Radio Std: None	z	Select Trace Trace 1	
1 Graph	•						Trace Type Clear / Write	Trace Control
Scale/Div 10.0	dB		Ref Value 40.00 dBr	m			Clear / Write	Math
30.0							Trace Average	$\models =$
20.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Max Hold	Detector
10.0		A						Trace
0.00		/					Min Hold	Function
-10.0		~			hand		Restart Max Hold	Advanced
-20.0							View/Blank	
-30.0							Active	
-40.0							Active	
-50.0							View	
Center 2.59302 Res BW 1.5000		ŀ	#Video BW 5.0000 M	Hz	Sweep 1.00	Span 150 MHz ms (1001 pts)	Blank	
2 Metrics	•						Background	
	Occupied Bandwidth			Measure Trace	Trace 1			
		3 MHz		Total Power	37.2 dBm			
	Transmit Freq Error	5.841 kHz		% of OBW Powe				
	x dB Bandwidth	61.83 MHz		x dB	-26.00 dB			Local
ま ち	C 🚺 ? Jun 1:2	25, 2022			🗎			

Plot 7-106. Occupied Bandwidth Plot (NR Band n41 - 60MHz DFT-s-OFDM π/2 BPSK - Full RB)

Spectrum Analyzer Occupied BW								Trace	- * 崇
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2 Avg Hold: 100 Radio Std: No			Select Trace Trace 1	,
1 Graph	•	111 2. 011	I					Trace Type	Trace Control
Scale/Div 10.0 dB			Ref Value 40.00 dBn	n				Clear / Write	Math
Log 30.0								Trace Average	maur
20.0		man	· ····································					Max Hold	Detector
10.0								Unax Floid	Trace
0.00								Min Hold	Function
-10.0		and			Lawren	- Margarethan	lack	Restart Max Hold	Advanced
-30.0								View/Blank	
-40.0								 Active 	
-50.0								View	
								- -	
Center 2.59302 GH Res BW 1.5000 MH			#Video BW 5.0000 MH	1Z			Span 150 MHz ms (1001 pts)	Blank	
2 Metrics	T							Background	
				Measure Trace	e Trace 1				
00	ccupied Bandwidth 58,393	MHz		Total Power		37.4 dBm			
Tr	ansmit Freq Error	-66.462 kHz		% of OBW Pov	ver	99.00 %			
x	dB Bandwidth	61.82 MHz		x dB		-26.00 dB			Local
1 1 1	Jun 29 1:20:	5, 2022 41 AM							

Plot 7-107. Occupied Bandwidth Plot (NR Band n41 - 60MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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000 Image: Constraint of the second	Off Gate: Off Avg Hold: 100/100 Select in the Trace 1 Trace 1						pied BW
1 Graph Scale/Div 10.0 dB Ref Value 40.00 dBm Cear/Write Cale/Div 10.0 dB Cear/Write Cale/Div 10.0 dB Cear/Write Cale/Div 10.0 dB Cear/Write Cale/Div 10.0 dB Cear/Write Math Detector Trace Average Min Hold Restart Max Hold View/Blank Center 2.59302 GHz Center 2.59302 GHz Center 2.59302 GHz Center 2.59302 GHz Sweep 1.00 ms (1001 pt) Sweep 1.00 ms (1001 pt)			Preamp: Off	r CCorr RCal q Ref: Int (S)	Corr Freq	Coupling: DC	
Scale DV 100 dB Ref Value 40.00 dBm Art Value	Clear / Write Control					•	
300 Advance 200 Bank	Math	Bm	Ref Value 40.00 df				/Div 10.0 dB
200 Max Hold Trace 100 Max Hold Trace 100 Max Hold Trace 100 Max Hold Max Hold 100 Max Hold Restart Max Hold 100 Max Hold Max Hold View/Blank Advance 100 Max Hold View/Blank 100 Max Hold View/Blank 100 Max Hold View 100 Max Hold View/Blank 100 Max Hold View 100 Max Hold							
000 000 Min Hold Function 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0 100 0 0 0	Max Hold	weer and the second	······	J.			
100 Restart Max Hold Advance 200 Restart Max Hold View/Blank 300 Advance Advance 400 Advance Advance 500 Advance Advance Center 2.58302 GHz #Video BW 5.0000 MHz Sweep 1.00 ms (1001 pts) Sweep 1.000 ms (1001 pts) Blank							
30 40 <	Advanced			J	A second second		
300 Active 400 Active 400 Active 500 Active Center 2.59302 GHz Span 150 MHz Res BW 1.5000 MHz Sweep 1.00 ms (1001 pts)						And and the second second	may my mar
40.0 50.0 Center 2.58302 GHz Res BW 1.5000 MHz Sweep 1.00 ms (1001 pts) Sweep 1.00 ms (1001 pts)							
Center 2.58302 GHz Span 150 MHz Res BW 1.5000 MHz Sweep 1.00 ms (1001 pts)							
Res BW 1.5000 MHz Sweep 1.00 ms (1001 pts)							
		ЛНz	#Video BW 5.0000 I				
2 Metrics Background Background	Background					•	rics
Measure Trace 1	Measure Trace 1	Measure 1					
Occupied Bandwidth 58 355 MHz Total Power 35 0 dBm	Total Power 35.0 dBm	Total Powe					Occ
Transmit Freq Error 12.391 kHz % of OBW Power 99.00 %					or		
x dB Bandwidth 62.02 MHz x dB -26.00 dB	x dB -26.00 dB Local	x dB		62.02 MHz		Bandwidth	x dE

Plot 7-108. Occupied Bandwidth Plot (NR Band n41 - 60MHz DFT-s-OFDM 16-QAM - Full RB)

Spectrum Analyzer Occupied BW KEYSIGHT R L T +++	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 GHz Avg Hold: 100/100 Radio Std: None	Select Trace Trace 1	Trace v 😥
Ioraph Ioraph Scale/Div 10.0 dB 0 0 0 0 0 10 0 30 0 30 0 0 0 <td< th=""><th></th><th></th><th>Ref Value 40.00 dBr</th><th></th><th>Spa Sweep 1.00 ms</th><th>n 150 MHz</th><th>Write Control Math werage Detector Id Trace Function Max Hold Advanced</th></td<>			Ref Value 40.00 dBr		Spa Sweep 1.00 ms	n 150 MHz	Write Control Math werage Detector Id Trace Function Max Hold Advanced
? Metrics Or Tr	r ccupied Bandwidth 58.416 ansmit Freq Error dB Bandwidth	5 MHz 53 960 KHz 62 63 MHz 25, 2022		Measure Trace Total Power % of OBW Poww x dB	Trace 1 35.0 dBm	Backgro	ound

Plot 7-109. Occupied Bandwidth Plot (NR Band n41 - 60MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-110. Occupied Bandwidth Plot (NR Band n41 - 60MHz DFT-s-OFDM 256-QAM - Full RB)

Keysight Spectrum Analyzer - Occupied B	W				
L RF 50 Ω DC	Trig:	SENSE:INT er Freq: 2.593020000 GHz Free Run Avg Hc n: 36 dB	ALIGN AUTO	07:25:37 PM Sep 08, 2022 Radio Std: None Radio Device: BTS	Trace/Detector
10 dB/div Ref 40.00 dB	n				
30.0 20.0 10.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Clear Write
-10.0 -20.0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Average
-30.0					Max Hold
Center 2.59302 GHz #Res BW 1.8 MHz Occupied Bandwid		/BW 8 MHz Total Power	37 /	Span 175.0 MHz Sweep 1 ms dBm	Min Hold
6	5.124 MHz				Detector Peak▶
Transmit Freq Error x dB Bandwidth	-1.7031 MHz 68.89 MHz	% of OBW Pow x dB		0.00 % 00 dB	Auto <u>Man</u>
MSG			STATUS	3	

Plot 7-111. Occupied Bandwidth Plot (NR Band n41 - 70MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied E							d a x
X L RF 50 Ω DC	CORREC	SENSE:INT Freq: 2.593020000 GHz	ALIGN AUTO	07:49:22 PM Radio Std:	1 Sep 08, 2022 None	Trace/	Detector
		Free Run Avg Ho n:36 dB	old:>100/100	Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dB	m						
Log 30.0							
20.0	m	······································	~			CI	ear Write
10.0							
0.00	hand						
10.0				man	my see		Average
20.0					and the second second		
40.0							
50.0							Max Hold
Center 2.59302 GHz				Enon 4	75.0 844-		
Res BW 1.8 MHz	١	/BW 8 MHz			75.0 MHz ep 1 ms		Min Hold
	41-	Total Power	26.0	5 dBm			
Occupied Bandwid		Total Fower	30.0	очып			_
6	7.967 MHz						Detector Peak▶
Transmit Freq Error	-149.32 kHz	% of OBW Po	wer 99	9.00 %		Auto	Man
x dB Bandwidth	73.33 MHz	x dB	-26.	00 dB			
			07470				
SG			STATU	5			

Plot 7-112. Occupied Bandwidth Plot (NR Band n41 - 70MHz DFT-s-OFDM QPSK - Full RB)



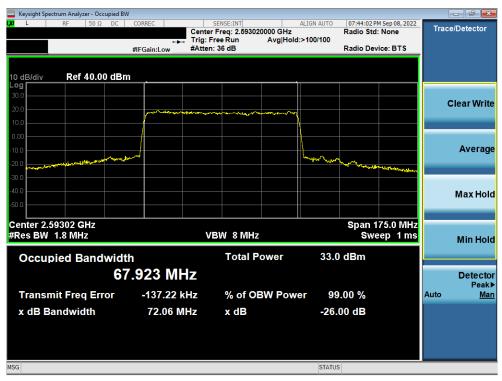
Plot 7-113. Occupied Bandwidth Plot (NR Band n41 - 70MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied BV						- đ ×
KL RF 50Ω DC	CORREC Cent	SENSE:INT ter Freq: 2.593020000 GH	ALIGN AUTO	07:46:45 PM S Radio Std: N		Trace/Detector
		:FreeRun Avg H en:36dB	old: 100/100	Radio Devic	e: BTS	
	#IFGalli:Low #Atta			Radio Devic	e. B13	
10 dB/div Ref 40.00 dBn	n					
Log						
30.0						Clear Write
20.0						
0.00						
10.0	-~~		- marine	- mark		Average
-20.0					man water	3
-30.0						
-40.0						Max Hold
-50.0						
Center 2.59302 GHz				Span 17	5.0 MHz	
#Res BW 1.8 MHz	,	VBW 8 MHz			p 1 ms	Min Hold
Occupied Bandwidt	h	Total Power	36 /	dBm		
			50.4	dBill		
66	3.067 MHz					Detecto Peak
Transmit Freq Error	-123.87 kHz	% of OBW Po	wer 99	.00 %	P	Auto <u>Mar</u>
x dB Bandwidth	88.79 MHz	x dB	-26.	00 dB		
ISG			STATUS			

Plot 7-114. Occupied Bandwidth Plot (NR Band n41 - 70MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-115. Occupied Bandwidth Plot (NR Band n41 - 70MHz DFT-s-OFDM 256-QAM - Full RB)

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Plot 7-116. Occupied Bandwidth Plot (NR Band n41 - 80MHz DFT-s-OFDM π/2 BPSK - Full RB)

Spectrum Analyz Occupied BW	rer 1 🗸 🕂						Trace	· · 迷
KEYSIGH	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.5930 Avg Hold: 100/100 Radio Std: None	020000 GHz	Select Trace Trace 1	
1 Graph	•						Trace Type Clear / Write	Trace Control
Scale/Div 10.0 c	IB		Ref Value 40.00 dB	m	- 1			Math
30.0							Trace Average	Detector
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			<ul> <li>Max Hold</li> </ul>	
							Min Hold	Trace Function
-10.0	~~~~~	~~~/			hanna	~~~~~·	Restart Max Hold	Advanced
-30.0							View/Blank	1
							<ul> <li>Active</li> </ul>	
							View	
Center 2.5930 G Res BW 1.8000		· · · · ·	#Video BW 6.0000 M	Hz	Sv	Span 200 MHz weep 1.00 ms (1001 pts)	Blank	
2 Metrics	Y						Background	
				Measure Tra	ce Trace 1			
	Occupied Bandwidth			7.40		7.0.10		
	77.826 Transmit Freg Error	-431.68 kHz		Total Power % of OBW P		7.2 dBm 99.00 %		
	x dB Bandwidth	82.16 MHz		x dB		26.00 dB		Local
<b>1</b> 50		5, 2022				# 💦 🔀		

Plot 7-117. Occupied Bandwidth Plot (NR Band n41 - 80MHz CP-OFDM QPSK - Full RB)

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KEYSIGI ∟ →	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2 Avg Hold: 100/ Radio Std: Nor		Select Trace Trace 1	
Graph		l					Trace Type	Trace Control
ale/Div 10.0	) dB		Ref Value 40.00 d	Bm	_		Clear / Write	Math
0 0							Trace Average	Waut
0.0								Detecto
0.0							Max Hold	Trace
00							Min Hold	Functio
0.0					home			Advanc
0.0	- Proventing the					man		
							View/Blank	
							<ul> <li>Active</li> </ul>	
							View	
enter 2.5930	GH7	Ļ	#Video BW 6.0000	MHz		Span 20	0 MHz	
s BW 1.800						Sweep 1.00 ms (100		
Vietrics							Background	
				Measure Tra	ace Trace 1			
	Occupied Bandwidth							
	77.878			Total Power		35.8 dBm		
	Transmit Freq Error x dB Bandwidth	-88.183 kHz 82.43 MHz		% of OBW P x dB	ower	99.00 % -26.00 dB		Loc
	X 00 Danamaan			740				LOC

Plot 7-118. Occupied Bandwidth Plot (NR Band n41 - 80MHz CP-OFDM 16-QAM - Full RB)

Spectrum Analyzer Occupied BW	¹¹ • +							Trace	· · · 🛞
	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low		ireq: 2.593020000 GH i: 100/100 id: None	z	Select Trace Trace 1	
1 Graph	· •	I						Trace Type	Trace Control
Scale/Div 10.0 dB			Ref Value 40.00 dBr	n				Clear / Write	Math
Log 30.0		Í						Trace Average	maun
20.0									Detector
10.0								Max Hold	Trace
0.00								Min Hold	Function
-10.0									Advanced
-20.0	and the second					m	manner	Restart Max Hold	
-30.0								View/Blank	
-40.0								<ul> <li>Active</li> </ul>	
-50.0								View	
Center 2.5930 GH		ļ	#Video BW 6.0000 M				Span 200 MHz	- -	
Res BW 1.8000 M			#video Bvv 6.0000 Wi	<b>H</b> 2		Sweep 1.00	ms (1001 pts)	Blank	
2 Metrics	T							Background	
				Measure Tra	ace Tra	ace 1			
0	ccupied Bandwidth 77.936	MHz		Total Power		35.2 dBm			
Тг	ransmit Freq Error	-103.24 kHz		% of OBW F	ower	99.00 %			
x	dB Bandwidth	82.49 MHz		x dB		-26.00 dB			Local
<b>1</b> 1	Jun 2: 1:03:	5, 2022 56 AM							

Plot 7-119. Occupied Bandwidth Plot (NR Band n41 - 80MHz CP-OFDM 64-QAM - Full RB)

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Plot 7-120. Occupied Bandwidth Plot (NR Band n41 - 80MHz CP-OFDM 256-QAM - Full RB)

KEYSIGH	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.593020000 GHz Avg Hold: 100/100 Radio Std: None	Select Trace Trace 1	
Graph cale/Div 10.0	dB		Ref Value 40.00 dB	m	_	Trace Type Clear / Write	Trace Control
og 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 0.			#Video BW 8.0000 M			Constant Service Average     Constant Service Average     Constant Service Average     Constant Max Hold     Constant Max Hold     View/Blank     Constant Service     Const	Detector Trace Function Advance
es Bw 2.200	Occupied Bandwidth	2 MHz -356 61 KHz 92 51 MHz		Measure Tra Total Power % of OBW P x dB	37.6 dBm	Background	Loca

Plot 7-121. Occupied Bandwidth Plot (NR Band n41 - 90MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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KEYSIGH ⊥⊺ ↔	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2 Avg Hold: 100 Radio Std: No	2.593020000 GHz /100 ne	Select Trace Trace 1	
Graph	•						Trace Type	Trace Control
cale/Div 10.0	dB		Ref Value 40.00	dBm	_		Clear / Write	Math
og 0.0							Trace Average	
0.0				A				Detecto
0.0							Max Hold	Trace
		/					Min Hold	Functio
0.0		- land			1 million			Advand
0.0	and the man and the state	<u> </u>				Burne - the Manunahan	Restart Max Hold	
0.0							View/Blank	
0.0							<ul> <li>Active</li> </ul>	
							View	
enter 2.5930 ( s BW 2.2000			#Video BW 8.000	JMHZ		Span 2 Sweep 1.00 ms (1	225 MHz Blank 001 pts)	
Metrics	•						Background	
				Measure Tra	ace Trace 1			
	Occupied Bandwidth			measure IIa	ice nace i			
	87.943	3 MHz		Total Power		35.8 dBm		
	Transmit Freq Error x dB Bandwidth	-125.56 kHz 93.23 MHz		% of OBW P x dB	ower	99.00 % -26.00 dB		
	X dB Bandwidth	93.23 MHZ		X dB		-26.00 dB		Loc

Plot 7-122. Occupied Bandwidth Plot (NR Band n41 - 90MHz CP-OFDM QPSK - Full RB)

Spectrum Analyz Occupied BW	T Input: RF	Input Ζ: 50 Ω Corr CCorr RCal	Atten: 36 dB Preamp: Off	Trig: Free Run Gate: Off	Center Freq: . Avg Hold: 100	2.593020000 GHz 1/100		Select Trace	v 🔆
	Align: Auto	Freq Ref: Int (S) NFE: Off	µW Path: Standard	#IF Gain: Low	Radio Std: No	ine		Trace 1	
L)(I		NFE: Uff						Trace Type	Trace
1 Graph	•							Clear / Write	Control
Scale/Div 10.0	dB		Ref Value 40.00 dE	im	-				Math
30.0								Trace Average	
		montester		-				Max Hold	Detector
					-N			-	Trace
								Min Hold	Function
-10.0		many			humann				Advanced
-20.0	manna					maren honder war	non marker	Restart Max Hold	
-30.0								View/Blank	
								Active	
-50.0								View	
								View	
Center 2.5930 C Res BW 2.2000			#Video BW 8.0000 N	lHz		Spa Sweep 1.00 ms	n 225 MHz (1001 pts)	Blank	
2 Metrics	v							Background	
				Measure Tra	ce Trace 1				
	Occupied Bandwidth	87 MHz		Total Power		35.5 dBm			
				% of OBW P		35.5 dBm 99.00 %			
	Transmit Freq Error x dB Bandwidth	-124.16 kHz 93.33 MHz		% of OBW Pi x dB	ower	-26.00 dB			Local
									Local
		1 25, 2022							
	12:	20:29 AM							

Plot 7-123. Occupied Bandwidth Plot (NR Band n41 - 90MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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KEYSIGH	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2 Avg Hold: 100 Radio Std: No		Select Trace Trace 1	_
iraph	•		-	1			Trace Type	Trace Control
ale/Div 10.0 (	lВ		Ref Value 40.00 de	Зm			Clear / Write	Math
g .0							Trace Average	
			- <del>.</del>	and and a second se	~		Max Hold	Detecto
							Min Hold	Trace Functio
.0	- mar and a start and a start a	amod					Restart Max Hold	Advanc
.0							View/Blank	1
.0							Active	
							View	
nter 2.5930 G s BW 2.2000			#Video BW 8.0000 I	MHz		Span 22 Sweep 1.00 ms (100		
letrics							Background	
				Measure Tra	ice Trace 1			
	Occupied Bandwidth 88.112	2 MHz		Total Power		35.1 dBm		
	Transmit Freq Error x dB Bandwidth	-136.34 kHz 93.21 MHz		% of OBW P x dB	ower	99.00 % -26.00 dB		
		33.2 T WITE		XUD		-20.00 dB		Loc

Plot 7-124. Occupied Bandwidth Plot (NR Band n41 - 90MHz CP-OFDM 64-QAM - Full RB)

Spectrum Analyzer Occupied BW								<b>\$</b>	Trace	· 米
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2. Avg Hold: 100/1 Radio Std: Non	00		Select Trace Trace 1		
1 Graph				1				Trace Type		Trace Control
Scale/Div 10.0 dB			Ref Value 40.00 dB	m				Clear / Wr	ite	
Log					1			Trace Ave	rage	Math
30.0										Detector
20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and the second s				Max Hold		
10.0					N .			Min Hold		Trace Function
-10.0									_	Advanced
		man			hourseam			Restart Ma:	x Hold	Advanced
-20.0							mand and a more that is	View/Blank		
-40.0								Active		
-50.0										
								View		
Center 2.5930 GH Res BW 2.2000 M			#Video BW 8.0000 N	Hz			Span 225 MHz ms (1001 pts)	Blank		
2 Metrics	٣							Backgrour	nd	
	ccupied Bandwidth			Measure Trac	ce Trace 1					
	87.996	MHz		Total Power		32.3 dBm				
	ansmit Freq Error	-129.23 kHz		% of OBW Pc	wer	99.00 %				
×	dB Bandwidth	93.07 MHz		x dB		-26.00 dB				Local
300	<b>1 ?</b> Jun 25	5, 2022								

Plot 7-125. Occupied Bandwidth Plot (NR Band n41 - 90MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-126. Occupied Bandwidth Plot (NR Band n41 - 100MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-127. Occupied Bandwidth Plot (NR Band n41 - 100MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied	BW					×
(XIRL RF 50Ω DC	CORREC	SENSE:INT Center Freg: 2.59300	ALIGN AUTO	05:04:41 AM Jul 20, Radio Std: None		or
			Avg Hold:>100/100	Radio Sta: None		
	#IFGain:Low	#Atten: 26 dB		Radio Device: B	TS	
10 dB/div Ref 40.00 dB	3m					
Log						
30.0					ClearW	Irite
20.0			the second se		orea n	inc
10.0						
0.00						
-10.0	~		<b>1</b>		Aver	age
-20.0			- hould	Alteran level		
-30.0					whilewer	
-40.0					Max H	lold
-50.0						
Center 2.5930 GHz				Snop 250 0	MILLE	
Center 2.5930 GHZ Res BW 2.4 MHz		#VBW 8 MH	-	Span 250.0 Sweep	1 ma	
Kes DW 24 WHZ			2	Owcep	Min H	loid
Occupied Bandwid	lth	Total P	ower 36.2	2 dBm		
9	98.054 MH	Z			Deter	ctor eak ▶
Transmit Freq Error	42.785 kl	Hz % of OE	BW Power 99	9.00 %		eak.₽ <u>Man</u>
x dB Bandwidth	103.6 MI	Hz xdB	-26.	00 dB		
MSG			STATU	S		

Plot 7-128. Occupied Bandwidth Plot (NR Band n41 - 100MHz CP-OFDM 16-QAM - Full RB)



Plot 7-129. Occupied Bandwidth Plot (NR Band n41 - 100MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied E	3W				
LXXIRL RF 50Ω DC	CORREC	SENSE:INT Center Freg: 2.593000	ALIGN AUTO	05:06:09 AM Jul 20, 202 Radio Std: None	2 Trace/Detector
		Trig: Free Run	Avg Hold: 100/100		
	#IFGain:Low	#Atten: 26 dB		Radio Device: BTS	_
10 dB/div Ref 40.00 dB	m				
Log 30.0					
					Clear Write
20.0	menne	www.www.www.	menting		
10.0					
0.00					
-10.0	A DEC		Phan.		Average
-20.0 -20.0			While	man all and and	
-30.0					
-40.0					Max Hold
-50.0					
Center 2.5930 GHz		41/D10/ 0 MILL		Span 250.0 MH	
Res BW 2.4 MHz		#VBW 8 MH:	<u> </u>	Sweep 1 m	S Min Hold
Occupied Bandwid	th	Total P	ower 32.6	6 dBm	
		_			
3	8.277 MH	Ζ			Detector Peak►
Transmit Freq Error	-190.84 kH	lz % of OE	W Power 99	9.00 %	Auto <u>Man</u>
x dB Bandwidth	103.6 M⊦	z xdB	-26.	00 dB	
			201		
MSG			STATU	S	

Plot 7-130. Occupied Bandwidth Plot (NR Band n41 - 100MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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			VO 4 0/4E/0000



# ULCA - LTE Band 7



Plot 7-131. Occupied Bandwidth Plot (LTE Band 7 - (20+20)MHz QPSK - Full RB)



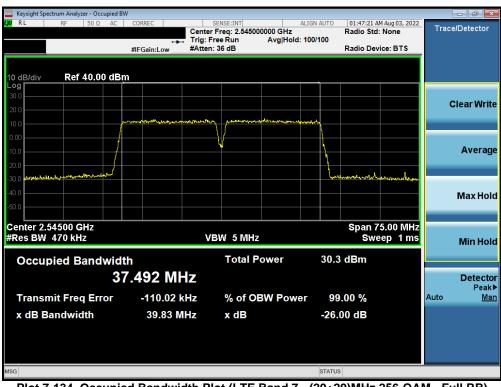
Plot 7-132. Occupied Bandwidth Plot (LTE Band 7 - (20+20)MHz 16-QAM - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied	BW			
LXIRL RF 50Ω AC		SENSE:INT nter Freg: 2.545000000 GH	ALIGN AUTO 01:47:50 AM	
	🛶 Trig	g: Free Run Avg H	old: 100/100	
	#IFGain:Low #At	ten: 36 dB	Radio Devic	e: BTS
10 dB/div Ref 40.00 dE	Bm			
Log 30.0				
20.0				Clear Write
10.0	and and an and and a second	my monours market and	and the first free free	
0.00				
-10.0		Y		Average
				Avenuge
-20.0 -30.0 mentphenticellalar Ministration			hall well marken the	สประเทศ
-30.0				
-40.0				Max Hold
-50.0				
Center 2.54500 GHz			Span 75	.00 MHz
#Res BW 470 kHz		VBW 5 MHz	Swee	p 1 ms Min Hold
		Total Power	32.0 dBm	
Occupied Bandwid		Total Power	32.0 dBm	
3	37.501 MHz			Detector
Transmit Freq Error	-121.11 kHz	% of OBW Po	wer 99.00 %	Peak► Auto Man
x dB Bandwidth	39.62 MHz	x dB	-26.00 dB	
MSG			STATUS	

Plot 7-133. Occupied Bandwidth Plot (LTE Band 7 - (20+20)MHz 64-QAM - Full RB)



Plot 7-134. Occupied Bandwidth Plot (LTE Band 7 - (20+20)MHz 256-QAM - Full RB)

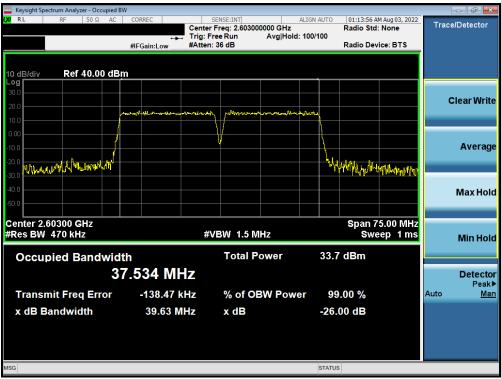
FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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# ULCA - LTE Band 41



Plot 7-135. Occupied Bandwidth Plot (LTE Band 41 - (20+20)MHz QPSK - Full RB)



Plot 7-136. Occupied Bandwidth Plot (LTE Band 41 - (20+20)MHz 16-QAM - Full RB)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-137. Occupied Bandwidth Plot (LTE Band 41 - (20+20)MHz 64-QAM - Full RB)



Plot 7-138. Occupied Bandwidth Plot (LTE Band 41 - (20+20)MHz 256-QAM - Full RB)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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# 7.3 Spurious and Harmonic Emissions at Antenna Terminal

### §2.1051, §27.53(a), §27.53(m)

### **Test Overview**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

# For Band 30, the minimum permissible attenuation level of any spurious emission <2288MHz and >2365MHz is 70 + 10 log10(P[Watts]).

For LTE Bands 7, 41, NR FR1 Band n41 and NR FR1 Band n7 the minimum permissible attenuation level of any spurious emission is 55 + 10log₁₀(P_[Watts]).

### Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

### Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

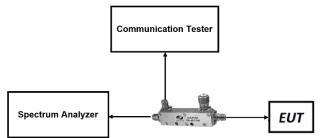


Figure 7-2. Test Instrument & Measurement Setup

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### Test Notes

- 1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. 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. 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 emission are attenuated at least 26 dB below the transmitter power.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 3. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
- 4. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
- 5. Uplink carrier aggregation intra-band conducted spurious emissions were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation, as shown in the tables below, with both carriers set to transmit using 1RB.
- 6. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.

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			V0 4 0/4E/0000



# LTE Band 30

Keysight Spe												
RL ASS	RF	50 Ω	AC	PNO:	Fast ++		#Avg Typ	ALIGN AUTO e: RMS	TRAC TYP	1 Jul 27, 2022 E 1 2 3 4 5 6 E A WWWWW T A N N N N N	F	requency
dB/div	Ref 20	).00 d	Bm					M	(r1 2.284 -47.1	45 GHz 18 dBm		Auto Tun
²⁹ Trac	e 1 Pass	;										Center Fre 9000000 G⊦
.00 D.0											30	<b>Start Fre</b> 0.000000 MH
D.O											2.28	<b>Stop Fr</b> 8000000 G
0.0							مىلىنى ئىرىدىن بىرىدى يەرىپىرىنى بىرىدىن بىرىدىن بىرىدىن بىرىدىن بىرىدىن بىرىدىن بىرىدىن بىرىدىن بىرى بىرى بىر ئىرىنى بىرىدىن بىرى بىر	nikus mitraisis an an interior	a hayay birgin ya kuta ya kuta	1- 	228 <u>Auto</u>	CF Sto 5.800000 M M
).0	*****											Freq Offs 0
art 0.03	0 GHz								Stop 2	.288 GHz	Log	Scale Ty
Res BW		z			#VBW	/ 3.0 MHz		Sweep 3	3.00 Z	4517 pt <u>s)</u>		
G								STATUS				

Plot 7-139. Conducted Spurious Plot (LTE Band 30 - 5MHz QPSK - RB Size 1, RB Offset 0 – Low Channel)



Plot 7-140. Conducted Spurious Plot (LTE Band 30 - 5MHz QPSK - RB Size 1, RB Offset 0 – Low Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-141. Conducted Spurious Plot (LTE Band 30 - 5MHz QPSK - RB Size 1, RB Offset 0 – Low Channel)



Plot 7-142. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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	ctrum Analyzer - Sv										x
X/RL	RF 50 S	2 AC COF	RREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO		M Jul 27, 2022	Frequency	
PASS			NO: Fast ↔ Gain:Low	Trig: Free #Atten: 2				TYI Di		Auto Tu	ne
10 dB/div Log	Ref 0.00 d	Bm					IVIKI	-50.8	1 5 GHz 89 dBm		
	1 Pass									Center Fr	
-10.0										8.682500000 G	Hz
-20.0										Start Fr	
-30.0										2.365000000 G	Hz
-40.0										Stop Fr	eq
-50.0									1	15.00000000 G	Hz
-60.0	m mary	a marine								CF St	
-70.0										1.263500000 G <u>Auto</u> M	lan
-70.0										Freq Offs	set
-80.0										-	Hz
-90.0										Scale Ty	pe
Start 2.36	5 GHz							Stop 15	.000 GHz		Lin
#Res BW			#VBW	3.0 MHz		S	weep 25	5.27 ms (2	5271 pts)		
MSG							STATUS	S			

Plot 7-143. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-144. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 91 of 274
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	ectrum Analyzer - Swept S					
LX/IRL	RF 50 Ω A	C CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	02:31:24 PM Jul 27, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		PNO: Fast	Trig: Free Run	ming type. the	TYPE A WWWWW DET A N N N N N	
PASS		IFGain:Low	Atten: 30 dB			Auto Tune
				M	kr1 2.278 0 GHz	Autorune
10 dB/div Log	Ref 20.00 dBr	n			-46.90 dBm	
Trac	e 1 Pass		Ť			Center Freq
10.0						1.159000000 GHz
						1.13900000 GH2
0.00						
						Start Freq
-10.0						30.000000 MHz
-20.0						Ctop From
						Stop Freq 2.288000000 GHz
-30.0						2.288000000 GH2
-40.0						CF Step 225.800000 MHz
						Auto Man
-50.0			an a			
and the second second	ning transfer physical and the state of the second s					Ener Offerst
-60.0						Freq Offset 0 Hz
						0 HZ
-70.0						
						Scale Type
Otart 0.00					Oton 2 200 Ollo	Log Lin
Start 0.03 #Res BW		#\/B\/	3.0 MHz	Sween	Stop 2.288 GHz 3.011 ms (4517 pts)	
MSG	1.0 Mil12	# V D V V	0.0 141112	Sweep		
MSG				STATU	15	

Plot 7-145. Conducted Spurious Plot (LTE Band 30 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-146. Conducted Spurious Plot (LTE Band 30 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2435	element 🤁	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 92 of 274
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		·	V2.1 2/15/2022





Plot 7-147. Conducted Spurious Plot (LTE Band 30 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

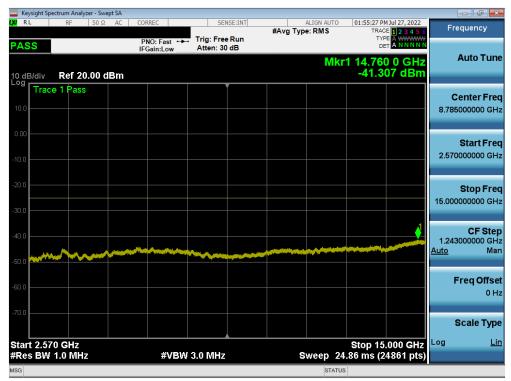
FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 93 of 274
1C2205090025-04-R2.BCG	6/1/2022 - 9/12/2022	Tablet Device	Fage 95 01 274
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## LTE Band 7

Keysight Spe	RF	zer - Swe 50 Ω	AC AC	CORREC		C	NSE:INT		ALIC	N AUTO	01/55/13 0	M Jul 27, 2022	_	
KL	KF	20.75	AC	CURREL	,			#Avg	Type: R			DE 1 2 3 4 5 6	F	requency
ASS				PNO: IFGain	Fast ↔	Trig: Free Atten: 30					TY			
				II Oulli						Mk	r1 2 42	8 5 GHz		Auto Tu
dB/div	Ref 20	).00 d	Bm								-46.	59 dBm		
Trace	e 1 Pass	;					Ĭ							Center F
).o														2500000 (
													1.20	2300000
														Start F
).0 <b> </b>													3	0.000000
).0														Stop F
													2 47	5000000
).0													2.41	
).0													24	CF S 4.500000 I
													<u>Auto</u>	1
).0								1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.00		******				
	******													Freq Off
0.0														(
).0														Scale Ty
														Scale
art 0.03	0 GHz										Stop 2	.475 GHz	Log	
tes BW	1.0 MH	z			#VBW	/ 3.0 MHz			Sw	eep 3	.260 ms	4891 pts)		
3										STATUS			-	

Plot 7-148. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-149. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 94 of 274
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Plot 7-150. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-151. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 95 of 274
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	ectrum Analyzer - Swep					
LXI RL	RF 50 Ω	AC CORREC	SENSE:INT	#Avg Type: RMS	TO 01:54:16 PM Jul 27, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		PNO: Fast 🕶	Trig: Free Run		TYPE A WWWWW DET A NNNN	
FA33		IFGain:Low	Atten: 30 dB			Auto Tune
				IV	kr1 14.765 0 GHz -41.349 dBm	
10 dB/div Log	Ref 20.00 dl	Bm	<b>V</b>		-41.043 ubm	
Irac	e 1 Pass					Center Freq
10.0						8.785000000 GHz
0.00						
						Start Freq
-10.0						2.570000000 GHz
-20.0						Stop Freq
						15.00000000 GHz
-30.0						
-40.0					4	CF Step
-40.0		ىرىمى بىلغانى ي				1.243000000 GHz
-50.0	- And and and a second	And a start of the start of the start	and the second se			<u>Auto</u> Man
55.0						
-60.0						Freq Offset
						0 Hz
-70.0						
						Scale Type
Start 2.57	70.04-				Stop 15.000 GHz	Log Lin
#Res BW		#VBM	/ 3.0 MHz	Sweep	24.86 ms (24861 pts)	
MSG		<i>"</i> <b>• • •</b>				
				5.7		

Plot 7-152. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-153. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 96 of 274
1C2205090025-04-R2.BCG	6/1/2022 - 9/12/2022	Tablet Device	Fage 90 01 274
	<u>.</u>		V2.1 2/15/2022



	Analyzer - Swept SA					
LXIRL RI	F 50 Ω AC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	01:56:42 PM Jul 27, 2022 TRACE 1 2 3 4 5 6	Frequency
24.00		PNO: Fast 🔸	Trig: Free Run	#Avg Type. Kino	TYPE A WWWWWW	
PASS		IFGain:Low	Atten: 30 dB		DET A NNNNN	A
				M	lkr1 2.424 5 GHz	Auto Tune
10 dB/div Re	f 20.00 dBm				-46.62 dBm	
Log Trace 1	ass					O
10.0						Center Freq
10.0						1.265000000 GHz
0.00						
0.00						Start Freq
10.0						30.000000 MHz
-10.0						
30.0						
-20.0						Stop Freq
-30.0						2.50000000 GHz
-30.0						
-40.0						CF Step
-40.0					1	247.000000 MHz
-50.0						<u>Auto</u> Man
-50.0		**************************************				
-60.0						Freq Offset
-00.0						0 Hz
-70.0						
-70.0						Scale Type
Start 0.030 GI					0100 2.000 0112	Log <u>Lin</u>
#Res BW 1.0	MHz	#VBW	3.0 MHz	Sweep	3.293 ms (4941 pts)	
MSG				STAT	US	

Plot 7-154. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-155. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 97 of 274
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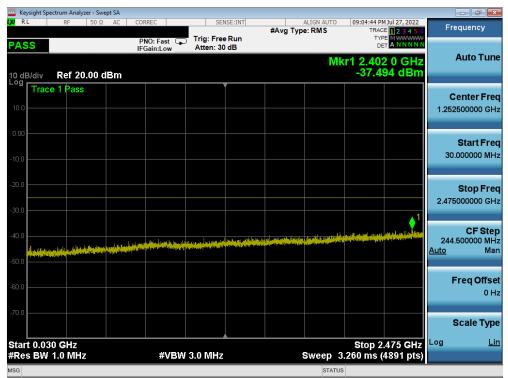


Plot 7-156. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

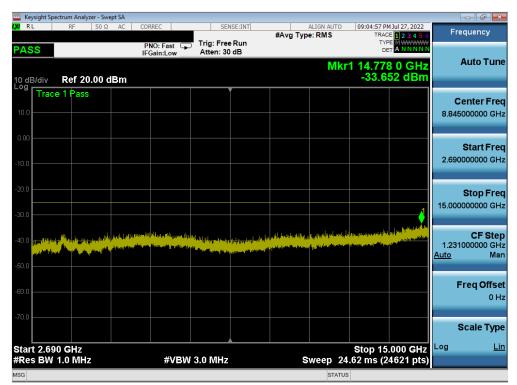
FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 98 of 274
1C2205090025-04-R2.BCG	6/1/2022 - 9/12/2022	Tablet Device	Fage 50 01 274
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## LTE Band 41



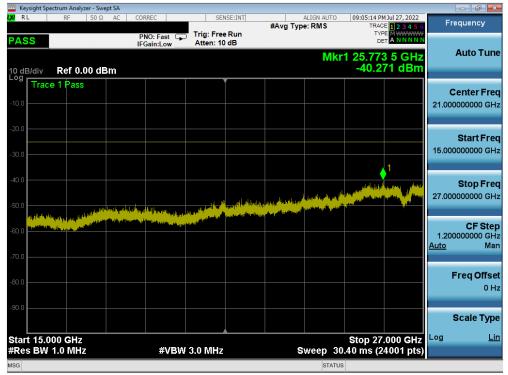
Plot 7-157. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



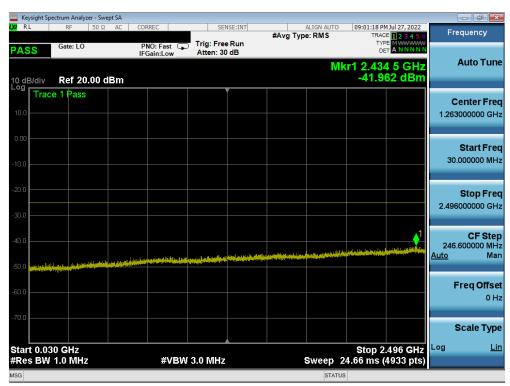
Plot 7-158. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 99 of 274
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Plot 7-159. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-160. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 100 of 274
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	ectrum Analyzer - Sw			1		1		-		
L <mark>XI</mark> RL	RF 50 Ω	AC CO	RREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Jul 27, 2022 DE 1 2 3 4 5 6	Frequency
PASS			NO: Fast 📮 Gain:Low	Trig: Free Atten: 30		• ,,		TY		
10 dB/div	Ref 20.00 c						Mk	r1 14.76 -33.3	5 5 GHz 06 dBm	Auto Tune
Log 10.0	e 1 Pass									Center Freq 8.845000000 GHz
-10.0										<b>Start Freq</b> 2.690000000 GHz
-20.0										<b>Stop Freq</b> 15.000000000 GHz
-40.0		l al constitut al Marcall	a ha sa na falaga sa na sa Na sa na s	an <mark>t a la la cata da cata</mark>	inge en lytt ji blan e ^b erti	e ya daga shi Married Ing Ya Married Ing Kasa a shi ka shi k	nya yaka basa Kangina aktoris	liger tell program and search light and a state of the search search and the search s	a madi na manan dan dan dan dan dan dan dan dan dan	<b>CF Step</b> 1.231000000 GHz <u>Auto</u> Man
-60.0										Freq Offset 0 Hz
-70.0 Start 2.69	00 GHz							Stop 15	.000 GHz	Scale Type
#Res BW			#VBW	3.0 MHz		s	weep 2	4.62 ms (2	4621 pts)	
MSG							STAT	US		

Plot 7-161. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



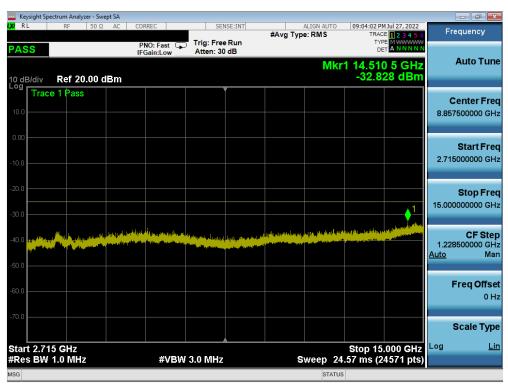
Plot 7-162. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 101 of 274
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	ectrum Analyzer - Swept	t SA				
L <mark>XI</mark> RL	RF 50 Ω		SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:02:45 PM Jul 27, 2022 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
PASS	Ref 20.00 dE	PNO: Fast 🖵 IFGain:Low	Atten: 30 dB	М	kr1 2.472 5 GHz -36.803 dBm	Auto Tune
10.0 Trac	e 1 Pass					Center Freq 1.263000000 GHz
-10.0						Start Freq 30.000000 MHz
-20.0						<b>Stop Freq</b> 2.496000000 GHz
-40.0	مريد المريد ا مريد المريد ال	in the second	en na fem ti king a katalan sanata na ataunka mina Managan yang sanata na katalan k	n je nim ka poslatný na se preslátný na se preslátka Kraj z na se poslatní se poslatní se preslátka se preslátka se preslátka se preslátka se preslátka se preslátka Kraj z na se poslatní se poslatní se preslátka se preslátka se preslátka se preslátka se preslátka se preslátka		CF Step 246.600000 MHz <u>Auto</u> Man
-60.0						<b>Freq Offset</b> 0 Hz
-70.0 Start 0.00					Stop 2.496 GHz	<b>Scale Type</b> Log <u>Lin</u>
#Res BW	1.0 WHZ	#VBW	3.0 MHz		3.288 ms (4933 pts)	
MSG				STATU	JS	

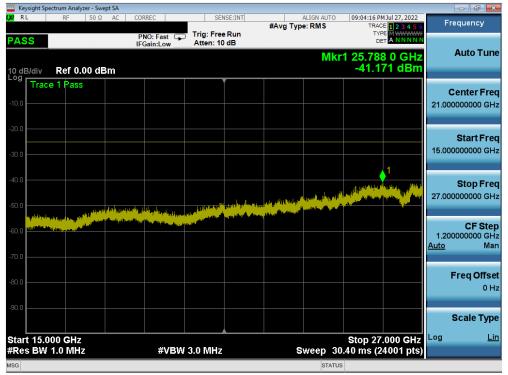
Plot 7-163. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-164. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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	<u>.</u>		V2.1 2/15/2022



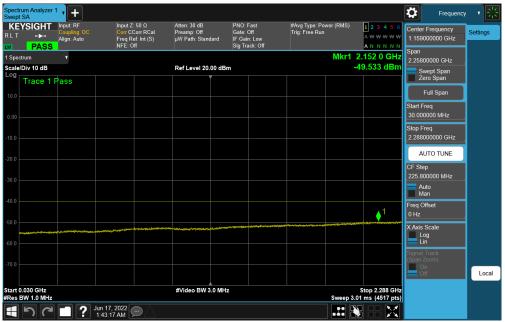


Plot 7-165. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

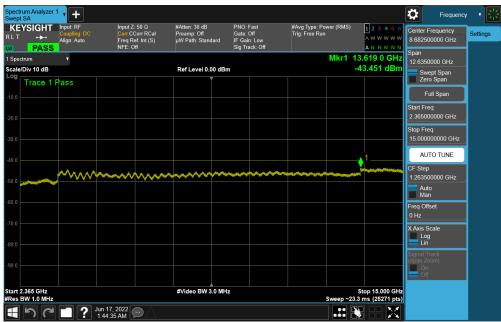
FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 103 of 274
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## NR Band n30



Plot 7-166. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 – Low Channel)



Plot 7-167. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA2435	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 104 of 274
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	rum Ana t SA											Frequence	y <b>1 🔆</b>
RLT		iHT ► ASS	Input: RF Coupling: DC Align: Auto	C	nput Z: 50 Ω orr CCorr RCal req Ref: Int (S) IFE: Off	Atten: 10 dB Preamp: Off μW Path: Stane	Ga lard IF	O: Fast te: Off Gain: Low ⊨Track: Off	#Avg Type: Pov Trig: Free Run	wer (RMS)	1 2 3 4 5 6 A₩₩₩₩₩ A N N N N N	Center Frequency 21.000000000 GHz Span	Settings
1 Spe	ctrum /Div 10	10	•			Ref Level 0.0					6.380 0 GHz 57.578 dBm	12.0000000 GHz	
Log		ав ce 1 F	Pass			Ref Level 0.0	JU dBm				57.578 dBill	Swept Span Zero Span	
-10.0			400									Full Span	
-20.0												Start Freq 15.000000000 GHz	1
-30.0												Stop Freq 27.000000000 GHz	
-40.0												AUTO TUNE	
-50.0												CF Step 1.200000000 GHz	
<u> </u>											1	Auto Man	
-60.0			~~~~, ^w				~~~~					Freq Offset 0 Hz	
-70.0												X Axis Scale Log Lin	
												Signal Track (Span Zoom)	
-90.0												On Off	
	15.000 BW 1.0					#Video BW 3	.0 MHz				Stop 27.000 GHz 8 ms (24001 pts)		
	5	2	2	Jun 17, 20 1:45:36 A									

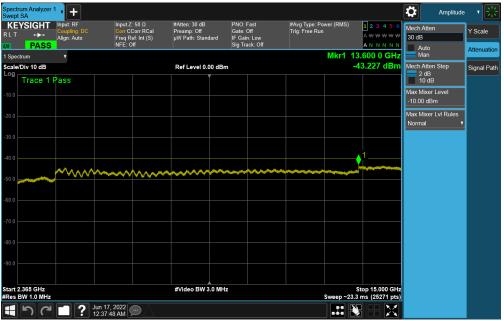
Plot 7-168. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)



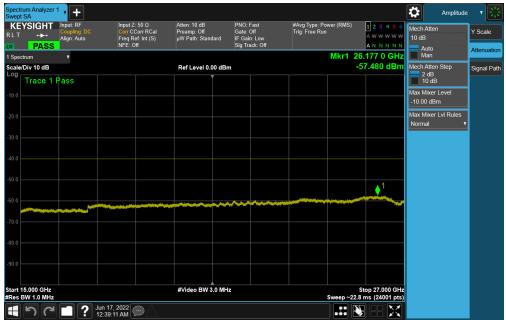
Plot 7-169. Conducted Spurious Plot (NR Band n30 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 105 of 274
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	·	•	V2.1 2/15/2022





Plot 7-170. Conducted Spurious Plot (NR Band n30 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)



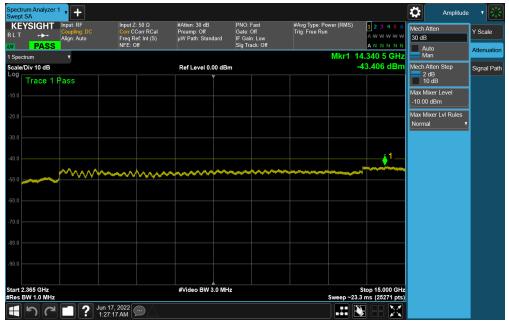
Plot 7-171. Conducted Spurious Plot (NR Band n30 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 106 of 274
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	rum Analyze t SA									Amplitude	• <del>  #</del>
KE RLT	YSIGHT	Coupling: DC Align: Auto		Corr RCal ef: Int (S)	Atten: 30 dB Preamp: Off µW Path: Stand		#Avg Type: Pov Trig: Free Run	ver (RMS)	1 2 3 4 5 6 A \vee vee vee vee vee vee vee vee vee ve	Mech Atten 30 dB Auto	Y Scale Attenuation
1 Spe	ctrum	•							2.278 0 GHz	Man	Aucidation
	/Div 10 dB				Ref Level 20.	00 dBm			-49.435 dBm	Mech Atten Step	Signal Path
Log	Trace 1	Pass			\ \					2 dB 10 dB	
10.0										Max Mixer Level	
10.0										-10.00 dBm	
0.00										Max Mixer Lvl Rules	
										Normal 🔻	
-10.0											
-20.0											
-30.0											
10.0											
-40.0									1.		
-50.0											
00.0	and the second					******	 <del>an an al an an an an</del> an				
-60.0											
-70.0											
Start	0.030 GHz				#Video BW 3	.0 MHz			Stop 2.288 GHz		
	#Res BW 1.0 MHz						Sweep 3	.01 ms (4517 pts)			
	5 6	•	Jun 17, 2022 1:26:22 AM	$\square \triangle$							

Plot 7-172. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 – High Channel)



Plot 7-173. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 – High Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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Plot 7-174. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 – High Channel)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		
1C2205090025-04-R2.BCG	6/1/2022 - 9/12/2022	Tablet Device	Page 108 of 274	
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## NR Band n7

		trum Analyzer -										
l <b>x</b> i R	L	RF 50	Ω DC	CORREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS		4 Jul 20, 2022	Fr	equency
PAS	S			PNO: Fast IFGain:Low			• //		DE			Auto Tune
10 dE Log		Ref 20.00	) dBm					M	kr1 2.46 -48.2	2 0 GHz 62 dBm		Auto Tune
10.0	Trace	1 Pass				• •						<b>Center Freq</b> 2500000 GHz
0.00 -10.0											30	Start Freq 0.000000 MHz
-20.0 -30.0										DL1 -25.00 dBm	2.47	<b>Stop Freq</b> 5000000 GHz
-40.0									مىلىسى ايم يسايين	1	244 <u>Auto</u>	CF Step .500000 MHz Man
-60.0			annen <u>a</u> ttinnen ^t attel ^{ke}									Freq Offset 0 Hz
-70.0												Scale Type
	t 0.03			40.0					Stop 2	.475 GHz	Log	Lin
	SBW	1.0 MHz		#V	BW 3.0 MHz				3.260 ms (	4891 pts)		
MSG								STATU	IS			

Plot 7-175. Conducted Spurious Plot (NR Band n7 - 40MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)



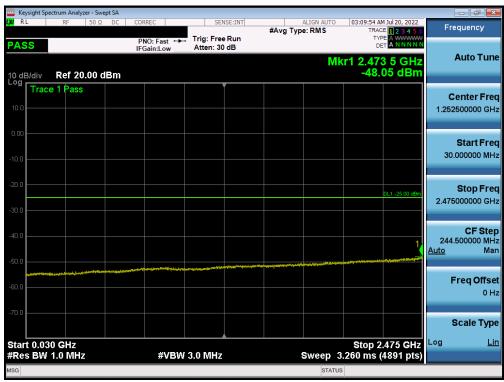
Plot 7-176. Conducted Spurious Plot (NR Band n7 - 40MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

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Plot 7-177. Conducted Spurious Plot (NR Band n7 - 40MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-178. Conducted Spurious Plot (NR Band n7 - 40MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

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