

	Analyzer - Channel			ALIGN AUTO	_		
Center Fred	RF 50 Ω 1.781500		SENSE:INT Center Freq: 1.781500000 GH: Trig: Free Run Avg H #Atten: 20 dB	06:35:35 PM Jun 20, 2024 Radio Std: None Radio Device: BTS		Frequency	
10 dB/div Log	Ref Offset 27 Ref 30.00 (
20.0							Center Fred 1.781500000 GH:
-10.0							
-20.0							
-50.0				~~~~~			CF Ster
Center 1.78 Res BW 39			VBW 390 kHz			an 4 MHz o 3.2 ms	400.000 kH
Channe	Channel Power		Power Spec	nsity		Freq Offset 0 Hz	
-30	.91 dBr	n / 1 MHz	-90.9	1 dBm	/Hz		
MSG				STATU	IS		

LTE B66_15 M_Extended Band Edge_High_QPSK_FullRB



RL	am Analyzer - Swept SA RF 50 Ω AC		SENSE:INT		ALIGN AUTO		M Jun 20, 2024	Frequenc	
enter Fre	eq 1.71000000	PNO: Wide	Trig: Free Run #Atten: 20 dB	#Avg Typ	e: RMS	TRAC TYF DE	E 1 2 3 4 5 6 A A A A A A A		
	Ref Offset 27 dB Ref 27.00 dBm				Mkr1	1.709 9 -33.8	88 GHz 28 dBm	Auto	Tur
7.0					\int			Center 1.71000000	
00								Start 1.70800000	
3.0							-13.00 Bills	Stop 1.71200000	
8.0			11					CF 400.00 <u>Auto</u>	
3.0								Freq C	Offs 0
enter 1.71 Res BW 2	10000 GHz 00 kHz	#VBW 6	20 kHz		#Sweep	Span 4 1.000 s (.000 MHz 1001 pts)		
G					STATUS				_

LTE B66_20 M_Band Edge_Low_QPSK_1RB



Image: Constraint of the second se	Stop Fr	-13,00 dBm)						3.0
400.000 kH Auto Mar Freq Offse	1.712000000 G							3.0
400.000 kH Auto Freq Offse			st.					3.0
400.000 kH Auto Freq Offse	CF St			1				
Freq Offse				and the second second				13.0
					And the second s		 	
	<u>Auto</u> II							3.0
								3.0
	Free of Street							
	Freq Offs							3.0
	0							0.0
								3.0
0000 GHz Span 4.000 MHz		Span 4,000 MHz					710000 GHz	nter 1.
		Span 4.000 MHZ			COO 1-11-	40 (514)		
0 kHz #VBW 620 kHz #Sweep 1.000 s (1001 pts)		1.000 s (1001 pts)	#Sweep		620 kHz	#VBW	200 kHz	es BW
		nood s (noon pis)	"oweep		020 1112	# U D V V	200 1112	00 014

LTE B66_20 M_Band Edge_Low_QPSK_FullRB



Agilent Spect	rum Analyzer - Chani RF 50 Ω	AC AC	CONCE-INT	ALIGN AUTO	06:42:40 PM Jun 20, 202	
	eq 1.70850	0000 GHz		Center Freq: 1.708500000 GHz Trig: Free Run Avg Hold: 300/300		Frequency
10 dB/div	Ref Offset 2 Ref 30.00					7
20.0						Center Freq 1.708500000 GHz
-10.0						
-20.0						
-40.0	~~~~~~	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Center 1.7 Res BW 3			VBW 390 kHz		Span 4 MH	CF Step 400.000 kHz Auto Man
	el Power			ectral Dens	Sweep 3.2 ms	Freq Offset
		Sm / 1 MHz	-92.30 dBm /Hz			0 Hz
MSG				STATU	s	

LTE B66_20 M_Extended Band Edge_Low_QPSK_FullRB



	200 kHz	#VBW	620 kHz	#Sweep		
	780000 GHz	#\/B\A	620 627	#514000	Span 4.000 MHz 1.000 s (1001 pts)	
63.0						
3.0						01
						Freq Offs
3.0					RMS	<u>Auto</u> Ma
3.0						CF Ste 400.000 ki
			1			05.014
3.0						1.782000000 GI
3.0					-13.00 dBm	Stop Fre
3.00						
						Start Fre
.00	/	\rightarrow				
7.0						1.780000000 GH
						Center Fre
0 dB/div og	Ref Offset 27 dB Ref 27.00 dBm	1			-32.899 dBm	
	D-60%-++07-ID	IFGain:Low	#Atten: 20 dB	Mkr	1.780 004 GHz	Auto Tur
enter F	req 1.7800000	PNO: Wide	Trig: Free Run #Atten: 20 dB	#Avg Type. RMS	TYPE A WWWWW DET A A A A A A	
RL	RF 50 Ω AC		SENSE:INT	#Avg Type: RMS	06:48:10 PM Jun 20, 2024 TRACE 2 3 4 5 6	Frequency

LTE B66_20 M_Band Edge_High_QPSK_1RB



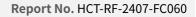
	06:47:32 PM Jun 20, 2024	ALIGN AUTO	SENSE:INT		m Analyzer - Swept SA RF 50 Ω AC	RL
Frequency	TRACE 2 3 4 5 5 TYPE A WWWW DET A A A A A A	#Avg Type: RMS	Trig: Free Run #Atten: 20 dB	CHZ PNO: Wide ↔ IFGain:Low	q 1.780000000	enter F
Auto Tur	1.780 008 GHz -33.881 dBm	Mkr1			Ref Offset 27 dB Ref 27.00 dBm	0 dB/div
Center Fre 1.780000000 GF						7.0
Start Fre 1.778000000 Gi						.00
Stop Fro 1.782000000 GI	-13.00 dBm					3.0
CF Ste 400.000 kl Auto M	RMS		1	and		3.0
Freq Offs 0						3.0
	Span 4.000 MHz 1.000 s (1001 pts)	#Sweep	20 kHz	#VBW (0000 GHz	enter 1.7
	1.000 s (1001 pts)	#Sweep	20 KHZ	#VDVV		FRES DW

LTE B66_20 M_Band Edge_High_QPSK_FullRB



Agilent Spectru	r Analyzer - Channel RF 50 Ω	Power AC	SENSE:INT	ALIGN AUTO	06:47:41 PM Jun 20, 2024	
	eq 1.781500	000 GHz		Center Freq: 1.781500000 GHz Trig: Free Run Avg Hold: 300/300		Frequency
10 dB/div	Ref Offset 27 Ref 30.00 (- i		
20.0						Center Freq 1.781500000 GHz
0.00 -10.0						
-20.0						
-40.0		~~~~~				
60.0 Center 1.7					Span 4 MHz	CF Step 400.000 kHz Auto Man
Res BW 39) kHz		VBW 390 k	Hz	Sweep 3.2 ms	
Channe	Channel Power		Powe	r Spectral Dens	sity	Freq Offsel 0 Hz
-32	2.55 dBı	m / 1 MHz		-92.55 dBm	/Hz	
ISG				STATU	S	

LTE B66_20 M_Extended Band Edge_High_QPSK_FullRB

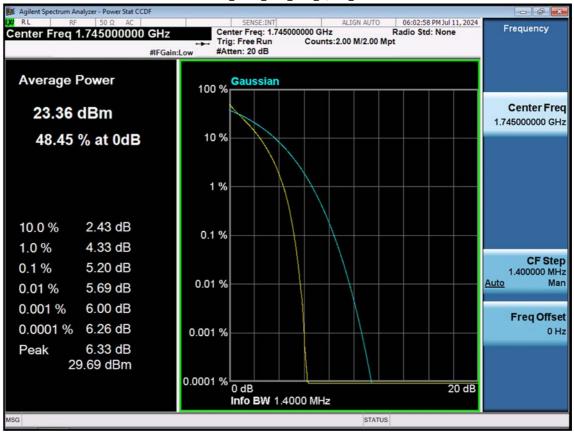




11. TEST PLOTS(ANT F)







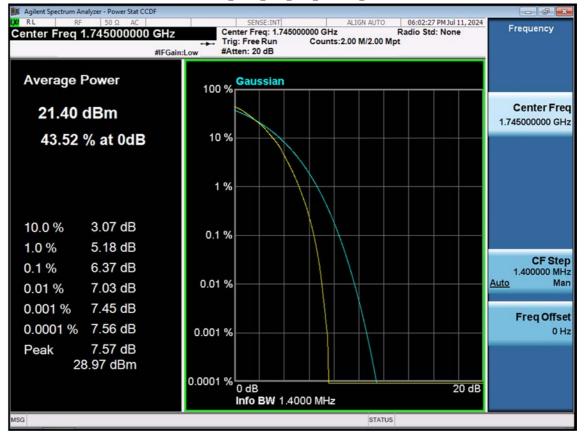
LTE B66_1.4M_PAR_Mid_QPSK_FullRB





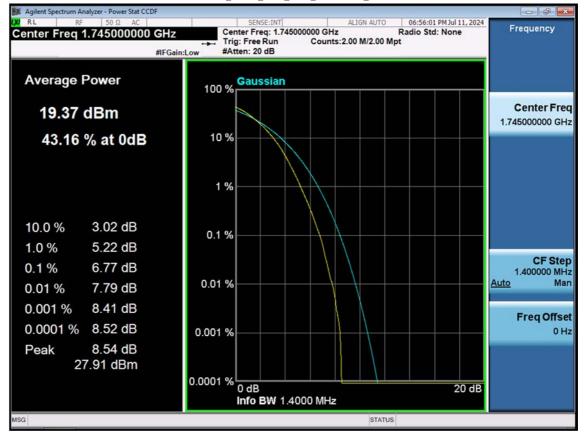
LTE B66_1.4M_PAR_Mid_16QAM_FullRB





LTE B66_1.4M_PAR_Mid_64QAM_FullRB





LTE B66_1.4M_PAR_Mid_256QAM_FullRB







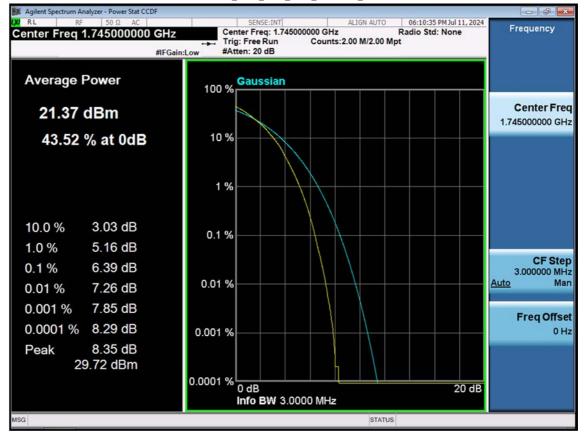
LTE B66_3 M_PAR_Mid_QPSK_FullRB





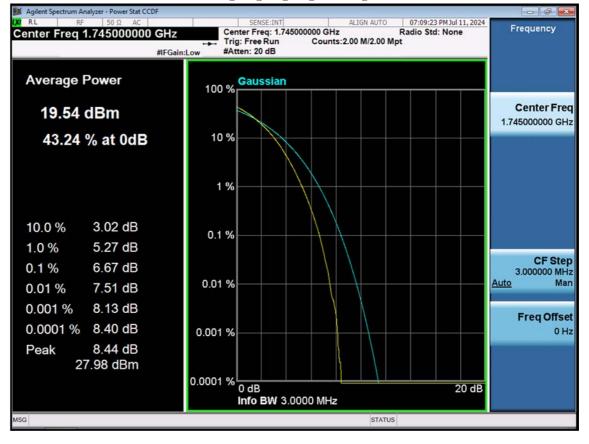
LTE B66_3 M_PAR_Mid_16QAM_FullRB





LTE B66_3 M_PAR_Mid_64QAM_FullRB

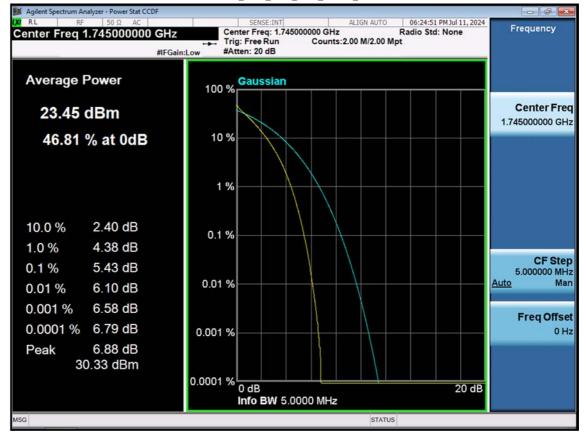




LTE B66_3 M_PAR_Mid_256QAM_FullRB

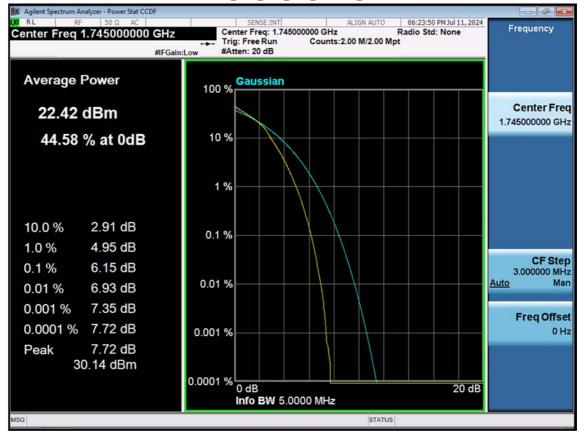






LTE B66_5 M_PAR_Mid_QPSK_FullRB





LTE B66_5 M_PAR_Mid_16QAM_FullRB





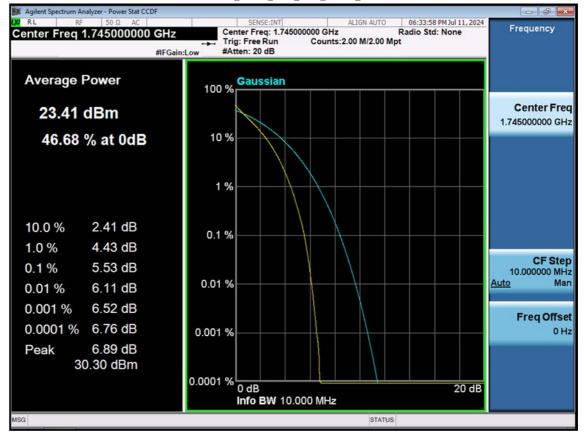
LTE B66_5 M_PAR_Mid_64QAM_FullRB





LTE B66_5 M_PAR_Mid_256QAM_FullRB





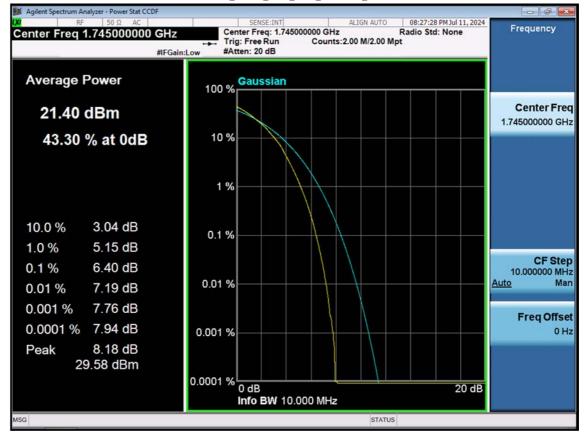
LTE B66_10 M_PAR_Mid_QPSK_FullRB





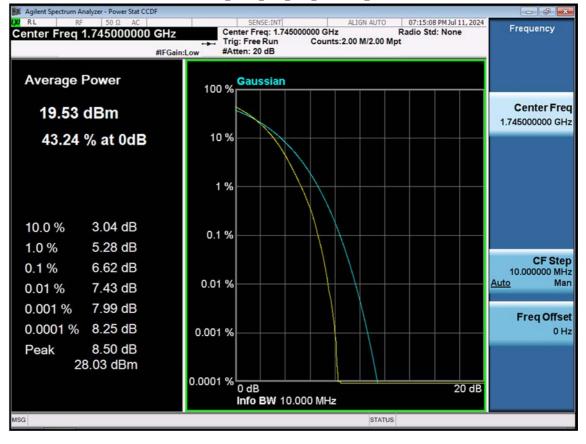
LTE B66_10 M_PAR_Mid_16QAM_FulIRB





LTE B66_10 M_PAR_Mid_64QAM_FulIRB

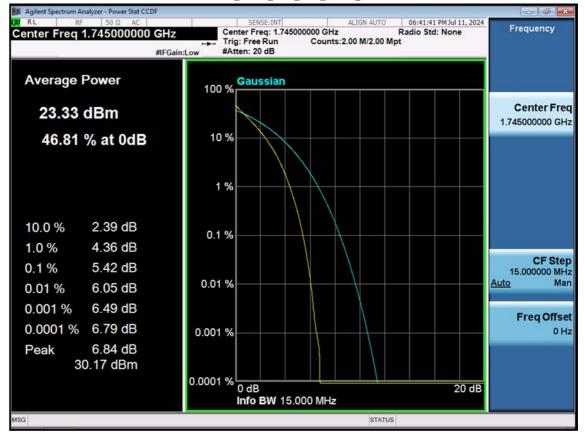




LTE B66_10 M_PAR_Mid_256QAM_FullRB

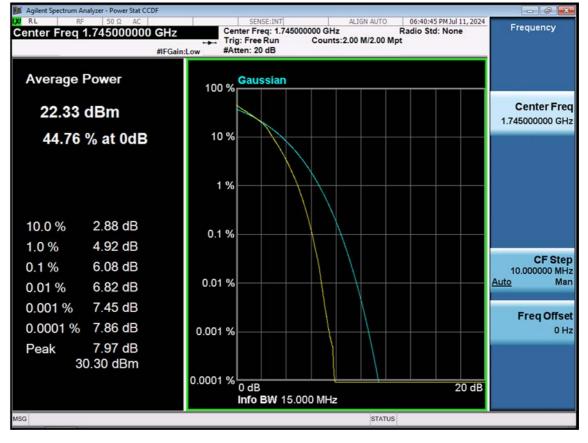






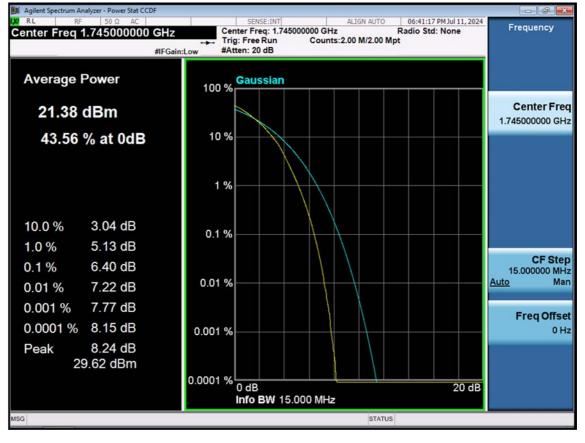
LTE B66_15 M_PAR_Mid_QPSK_FullRB





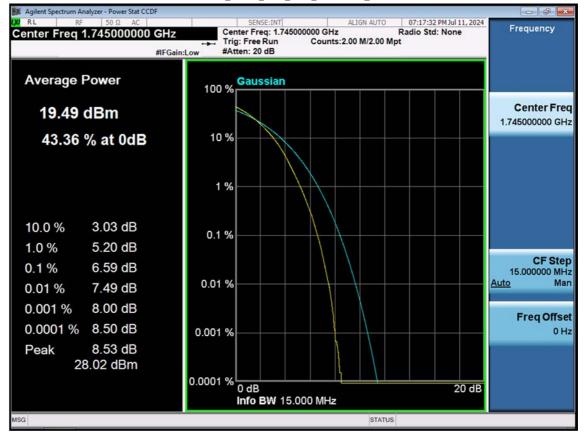
LTE B66_15 M_PAR_Mid_16QAM_FullRB





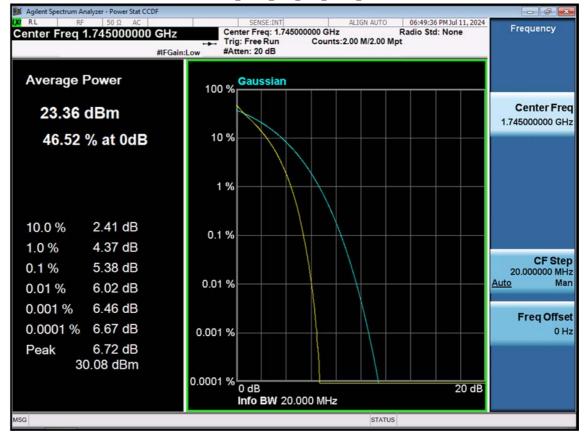
LTE B66_15 M_PAR_Mid_64QAM_FullRB





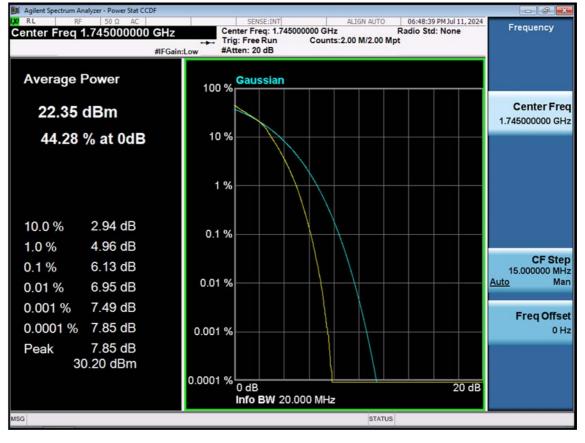
LTE B66_15 M_PAR_Mid_256QAM_FullRB





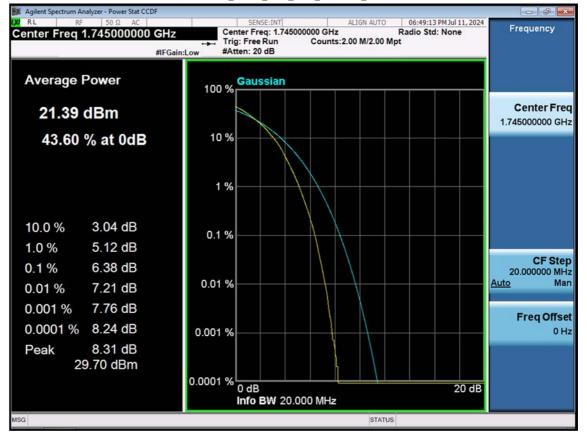
LTE B66_20 M_PAR_Mid_QPSK_FullRB





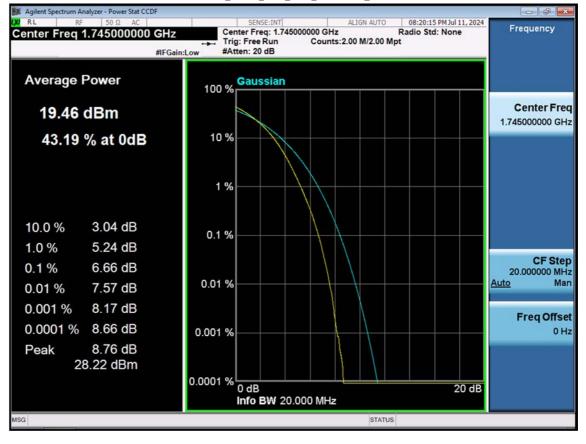
LTE B66_20 M_PAR_Mid_16QAM_FullRB





LTE B66_20 M_PAR_Mid_64QAM_FullRB





LTE B66_20 M_PAR_Mid_256QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW					- 6 x
Center Freq 1.745000000 PASS	GHz #IFGain:Low	SENSE:INT Center Freq: 1.74500000 Trig: Free Run A #Atten: 20 dB	ALIGN AUTO O GHz vg Hold: 700/700	06:02:46 PM Jul 11, 202 Radio Std: None Radio Device: BTS	⁴ Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBm Log	I				
30.0					Center Freq 1.745000000 GHz
10.0	front		m		
-10.0	<i>N</i>		N.M.		
-20.0 Jun Mar Marrow			han h	manner marking	
-30.0					
-50.0					CF Step 280.000 kHz
Center 1.745 GHz Res BW 27 kHz		#VBW 110 kHz		Span 2.8 MH: Sweep 3.667 ms	
Occupied Bandwidt		Total Pow	er 32.:	2 dBm	Freq Offset
1.0	0982 MH	Z			
Transmit Freq Error	2.070 kl	Hz OBW Pow	er 99	9.00 %	
x dB Bandwidth	1.333 MI	Hz x dB	-26	.00 dB	
MSG			STATU	IS	

LTE B66_1.4M_OBW_Mid_QPSK_FullRB



Magilent Spectrum Analyzer - Occupied BW					- @ X
RL RF 50Ω AC		SENSE:INT	ALIGN AUTO	06:01:30 PM Jul 11, 2024 Radio Std: None	Frequency
Center Freq 1.745000000 PASS	T		g Hold: 700/700	Radio Std: None Radio Device: BTS	
Ref Offset 27 dB 10 dB/div Ref 40.00 dBn	1				1
30.0					Center Freq
20.0	man	Amaria and marine			1.745000000 GHz
10.0			and		
0.00	m		- ho		
10.0			n h		
20.0 Mary Marker Marker Marker				Jermen marken	
-40.0					
50.0					CF Step
Center 1.745 GHz				On on 2 0 Mills	280.000 kHz
Res BW 27 kHz		#VBW 110 kHz		Span 2.8 MHz Sweep 3.667 ms	
Occupied Bandwidt	h	Total Powe	er 31.4	l dBm	Freq Offset
1.	0987 MHz	2			0 Hz
Transmit Freq Error	2.168 kHz	OBW Powe	er 99	9.00 %	
x dB Bandwidth	1.308 MHz	z x dB	-26.	00 dB	
ISG			STATU	S	

LTE B66_1.4M_OBW_Mid_16QAM_FullRB



Je Agilent Spectrum Analyzer - Occupied BW	r.				
RL RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB Ref Offset 27 dB 10 dB/diy Ref 40.00 dBr Ref 40.00 dB Ref 40.00 dB Ref 40.00 dB	#IFGain:Low	SENSE:INT Center Freq: 1.745000000 GHz Trig: Free Run Avg Ho #Atten: 20 dB	Radio Sto Id: 700/700	3 PM Jul 11, 2024 d: None vice: BTS	Frequency
			n.		Center Freq 1.745000000 GHz
10.0 0.00 -10.0 -20.0 -30.0 -40.0			h.	Manghapa	
-50.0 Center 1.745 GHz Res BW 27 kHz		#VBW 110 kHz		in 2.8 MHz 3.667 ms	CF Step 280.000 kHz <u>Auto</u> Man
Occupied Bandwid 1.	th 0960 MH	Total Power	30.3 dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	3.177 k 1.308 M		99.00 % -26.00 dB		
MSG			STATUS		

LTE B66_1.4M_OBW_Mid_64QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW				- Ø 💌
Ref Offset 27 dB		SENSE:INT Iter Freq: 1.745000000 GHz g: Free Run Avg Hol ten: 20 dB	ALIGN AUTO 06:55:36 PM Jul 11, Radio Std: None d: 700/700 Radio Device: BT	Frequency
10 dB/div Ref 40.00 dBm		- man man man man and man		Center Freq 1.745000000 GHz
10.0 0.00 -10.0 -20.0				
-30.0 -40.0 -50.0			Junnan	CF Step
Center 1.745 GHz Res BW 27 kHz		#VBW 110 kHz	Span 2.8 M Sweep 3.667	
Occupied Bandwidth 1.0	999 MHz	Total Power	28.1 dBm	Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	789 Hz 1.325 MHz	OBW Power x dB	99.00 % -26.00 dB	
MSG			STATUS	

LTE B66_1.4M_OBW_Mid_256QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW					
X RL RF 50 Ω AC Center Freq 1.745000000 PASS	GHz #IFGain:Low	SENSE:INT Center Freq: 1.745000000 GH Trig: Free Run Avg H #Atten: 20 dB	Iz Radio S Iold: 700/700	54 PM Jul 11, 2024 td: None evice: BTS	Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBm Log					
30.0					Center Freq 1.745000000 GHz
10.0	/ ·····	me man the man			
-10.0					
-20.0 -20.0			- mum	man	
-40.0					CF Step
Center 1.745 GHz #Res BW 62 kHz		#VBW 240 kHz	Swee	Span 6 MHz p 1.533 ms	600.000 kHz <u>Auto</u> Man
Occupied Bandwidt	h 7129 MH	Total Power	32.1 dBm		Freq Offset 0 Hz
Z. Transmit Freq Error	11.882 k		99.00 %		
x dB Bandwidth	3.159 M	Hz x dB	-26.00 dB		
MSG			STATUS		

LTE B66_3 M_OBW_Mid_QPSK_FullRB



Magilent Spectrum Analyzer - Occupied BW		the second second			
X RL RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB	GHz #IFGain:Low	SENSE:INT Center Freq: 1.74500000 Trig: Free Run #Atten: 20 dB	ALIGN AUTO 00 GHz Avg Hold: 700/700	06:09:49 PM Jul Radio Std: Non Radio Device: E	e Frequency
10 dB/div Ref 40.00 dBm Log 30.0 20.0	M	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Center Freq 1.745000000 GHz
0.00 -10.0 -20.0 -30.0				mongor	งกังกับก
-40.0 -50.0 Center 1.745 GHz #Res BW 62 kHz		#VBW 240 kH	z	Span 6 Sweep 1.53	MHz Auto Man
Occupied Bandwidt	h 7110 MH	Total Pov	ver 31.	0 dBm	Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	11.326 k 3.095 M			9.00 % .00 dB	
MSG			STATU	JS	

LTE B66_3 M_OBW_Mid_16QAM_FullRB



Agilent Spectrum Analyzer - Occupied BV	N							
Center Freq 1.74500000 PASS Ref Offset 27 dE	₩FGain:Low	_ Trig: F	SENSE:INT r Freq: 1.74500 Free Run h: 20 dB		ALIGN AUTO	Radio Ste	6 PM Jul 11, 2024 d: None vice: BTS	Frequency
10 dB/div Ref 40.00 dB	m	~~~~~	mmmm	mmm	~~~~			Center Freq 1.745000000 GHz
0.00 -10.0 -20.0 -30.0 mAAL ~7~m~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						J. M. Market	mulma	
40.0 50.0 Center 1.745 GHz #Res BW 62 kHz		#	VBW 240 F	<hz< td=""><td></td><td></td><td>pan 6 MHz 1.533 ms</td><td>CF Step 600.000 kH <u>Auto</u>Mar</td></hz<>			pan 6 MHz 1.533 ms	CF Step 600.000 kH <u>Auto</u> Mar
Occupied Bandwid	dwidth Total P 2.7142 MHz		ower	30.	3 dBm		Freq Offset 0 Hz	
Transmit Freq Error x dB Bandwidth	9.106 3.094 M		OBW P x dB	ower		9.00 % .00 dB		
MSG					STAT	JS		

LTE B66_3 M_OBW_Mid_64QAM_FullRB



Agilent Spectrum Analyzer - Occupied BW	5. 				
RL RF 50 Ω AC Center Freq 1.745000000 PASS PASS	GHz #IFGain:Low	SENSE:INT Center Freq: 1.745000 Trig: Free Run #Atten: 20 dB	ALIGN AUTO 000 GHz Avg Hold: 700/700	07:08:54 PM Jul 11, 202 Radio Std: None Radio Device: BTS	Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBn	n			,	
20.0					Center Free 1.745000000 GH
10.0	James	h	mm		
10.0 20.0			- Vy		
30.0 40.0			}	furner	-
center 1.745 GHz				Span 6 MH	CF Stej 600.000 kH
Res BW 62 kHz		#VBW 240 kH	lz	Sweep 1.533 m	Z <u>Auto</u> Mai S
Occupied Bandwidth 2.7139 MHz			Total Power 28.3 dBm		Freq Offse 0 H
Transmit Freq Error	5.006		wer 99	9.00 %	
x dB Bandwidth	3.142 N	IHz x dB	-26.	.00 dB	
ISG			STATU	S	

LTE B66_3 M_OBW_Mid_256QAM_FulIRB



Magilent Spectrum Analyzer - Occupied BW					
RL RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB	#IFGain:Low	SENSE:INT Center Freq: 1.745000000 GH Trig: Free Run Avg H #Atten: 20 dB	Iz Radio : Iold: 700/700	:43 PM Jul 11, 2024 Std: None Device: BTS	Frequency
10 dB/div Ref 40.00 dBm Log 30.0 20.0		mmmmmmmm	m		Center Freq 1.745000000 GHz
10.0 0.00 -10.0 -20.0 -30.0				Marana .	
-40.0 -50.0 Center 1.745 GHz #Res BW 100 kHz		#VBW 390 kHz		pan 10 MHz weep 1 ms	CF Step 1.000000 MHz <u>Auto</u> Man
Occupied Bandwidt	^h 5277 M⊦	Total Power	32.3 dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	21.459 k 5.339 M		99.00 % -26.00 dB		
MSG			STATUS		

LTE B66_5 M_OBW_Mid_QPSK_FullRB



Magilent Spectrum Analyzer - Occupied BW	S						
X RL RF 50 Ω AC Center Freq 1.745000000 PASS PASS	GHz #IFGain:Low	SENSE:INT Center Freq: 1.7450 Trig: Free Run #Atten: 20 dB		700/700	06:23:42 F Radio Std: Radio Devi		Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBrr Log	۱ <u>.</u>		-				
30.0 20.0							Center Freq 1.745000000 GHz
0.00	/ /	hor hor hor has					
-10.0 -20.0 -30.0 WMM (Mronwern M				- www.	hun	MMM	
-40.0							CF Step
Center 1.745 GHz #Res BW 100 kHz		#VBW 390	kHz			n 10 MHz ep 1 ms	1.000000 MHz <u>Auto</u> Man
Occupied Bandwidt	^h 5344 Mi	Total F HZ	Power	31.3 c	dBm		Freq Offset 0 Hz
Transmit Freq Error	14.383	kHz OBW F	Power	99.0	00 %		
x dB Bandwidth	5.262 N	MHz x dB		-26.00) dB		
MSG				STATUS			

LTE B66_5 M_OBW_Mid_16QAM_FulIRB



Je Agilent Spectrum Analyzer - Occupied BW	15.					
RL RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB	#IFGain:Low	SENSE:INT Center Freq: 1.74500 Trig: Free Run #Atten: 20 dB		Radio Std		Frequency
10 dB/div Ref 40.00 dBn Log 30.0 20.0	n	and the second				Center Freq 1.745000000 GHz
-10.0 -10.0 -20.0 -30.0 pm Mm Mm -	/			hour hour hour hour hour hour hour hour	h	
-50 0 Center 1.745 GHz #Res BW 100 kHz		#VBW 390 k	(Hz		n 10 MHz eep 1 ms	CF Step 1.000000 MHz <u>Auto</u> Man
Occupied Bandwidt 4.	th 5237 MI	Total P	ower	30.3 dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	15.611 5.277 N		ower	99.00 % -26.00 dB		
MSG				STATUS		

LTE B66_5 M_OBW_Mid_64QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW					
RL RF 50 Ω AC Center Freq 1.745000000 PASS	GHz #IFGain:Low	SENSE:INT Center Freq: 1.74500000 Trig: Free Run A #Atten: 20 dB	ALIGN AUTO O GHz vg Hold: 700/700	07:12:14 PMJul 11,202 Radio Std: None Radio Device: BTS	Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBm	l,				1
20.0					Center Freq 1.745000000 GHz
0.00	framme	mmunn	m		
-10.0			- De	\ \	
-30.0				M. Martin	
50.0 Center 1.745 GHz				Span 10 MHz	
#Res BW 100 kHz		#VBW 390 kHz		Sweep 1 ms	
Occupied Bandwidth 4.5268 MHz		Total Pow	er 28.4	Freq Offset 0 Hz	
Transmit Freq Error	19.680 k	Hz OBW Pow	er 99	9.00 %	
x dB Bandwidth	5.205 M			.00 dB	
MSG			STATU	S	

LTE B66_5 M_OBW_Mid_256QAM_FulIRB



J Agilent Spectrum Analyzer - Occupied BW	15		_				
X RL RF 50 Ω AC Center Freq 1.745000000 PASS PASS) GHz #IFGain:Low	SENSE:INT Center Freq: 1.7450 Trig: Free Run #Atten: 20 dB		ALIGN AUTO	06:33:51 Radio Std: Radio Dev		Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBr							
30.0							Center Freq 1.745000000 GHz
10.0	how	h manana an a	mernan	1 1			
-10.0				North Contraction of the second secon			
-20.0 Und harden and					W have made	unantering	
-40.0							CF Step
Center 1.745 GHz #Res BW 200 kHz		#VBW 820	kHz			n 20 MHz ep 1 ms	2.000000 MHz
Occupied Bandwidt			Power	32.0	dBm		Freq Offset
9.	0257 MI	ΗZ					
Transmit Freq Error	28.073	Hz OBW	Power	99	.00 %		
x dB Bandwidth	10.36 N	IHz x dB		-26.0	00 dB		
MSG				STATUS			

LTE B66_10 M_OBW_Mid_QPSK_FullRB



Magilent Spectrum Analyzer - Occupied BW	r.				
M RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB	#IFGain:Low	SENSE:INT Center Freq: 1.745000000 Trig: Free Run A #Atten: 20 dB	vg Hold: 700/700	06:32:53 PM Jul 11, 2024 adio Std: None adio Device: BTS	Frequency
10 dB/div Ref 40.00 dBr Log 30.0 20.0		ייייניטער איז	lenstrugere		Center Freq 1.745000000 GHz
10.0 0.00 -10.0 -20.0 -30.0 -30.0				Manapalana	
-40.0 -50.0 Center 1.745 GHz #Res BW 200 kHz		#VBW 820 kHz		Span 20 MHz Sweep 1 ms	CF Step 2.000000 MHz <u>Auto</u> Man
Occupied Bandwidt 9.	th 0204 MH	Total Pow	er 31.0 d	Bm	Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	30.854 k 10.41 M		er 99.0 -26.00		
MSG			STATUS		

LTE B66_10 M_OBW_Mid_16QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW	r.							
RL RF 50 Ω AC Center Freq 1.745000000 PASS PASS) GHz #IFGain:Low		: 1.745000000 un Av			06:33:17 Radio Std: Radio Dev		Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBr								
30.0								Center Freq 1.745000000 GHz
0.00	p. or warmown	me have seen as	**********	h	1			
-10.0 -20.0 -30.0					North Market	เป็นการที่	how wanted	
-30.0 (1993)								
Center 1.745 GHz #Res BW 200 kHz		#VBW	820 kHz				n 20 MHz ep 1 ms	CF Step 2.000000 MHz <u>Auto</u> Man
Occupied Bandwid	th 0054 M i		otal Powe	r	31.2	dBm		Freq Offset 0 Hz
Transmit Freq Error	40.058	kHz O	BW Powe	r	99.	00 %		
x dB Bandwidth	10.43 N	/Hz x	dB		-26.0	0 dB		
MSG					STATUS			

LTE B66_10 M_OBW_Mid_64QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW							
OZ RL RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB Ref Offset 27 dB	#IFGain:Low	SENSE:INT Center Freq: 1.7450 Trig: Free Run #Atten: 20 dB	000000 GHz Avg Hold	: 700/700	07:14:52 F Radio Std: Radio Devi		Frequency
10 dB/div Ref 40.00 dBm Log 30.0 20.0							Center Freq 1.745000000 GHz
10.0 0.00 -10.0		w.Ar.~~~~	Jun mallager				
-20.0 -30.0 -40.0					Hunan	America	
-50.0 Center 1.745 GHz #Res BW 200 kHz		#VBW 820	kHz			n 20 MHz ep 1 ms	CF Step 2.000000 MHz <u>Auto</u> Man
Occupied Bandwidtl 9.(h 0127 MH	Total I	Power	28.3	dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	27.596 k 10.29 M		Power	99. -26.0	00 % 0 dB		
MSG				STATUS			

LTE B66_10 M_OBW_Mid_256QAM_FullRB



JE Agilent Spectrum Analyzer - Occupied BW							- 6 - x -
XI RF 50 g AC Center Freq 1.745000000 PASS PASS) GHz #IFGain:Low	SENSE:INT Center Freq: 1.7450 Trig: Free Run #Atten: 20 dB		700/700	06:41:34 F Radio Std: Radio Devi		Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBn Log	n						
20.0							Center Freq 1.745000000 GHz
10.0	producerano	whyther all an an article for	Univer to Window	₩.			
-10.0				- Ly			
-20.0 -30.0				- What	mallerquest	Mananamanan	
-40.0							CF Step 3.000000 MHz
Center 1.745 GHz #Res BW 300 kHz		#VBW 1.21	MHz			n 30 MHz ep 1 ms	<u>Auto</u> Man
Occupied Bandwidt		Total F	Power	32.0	dBm		Freq Offset 0 Hz
	3.500 MI			12.20			
Transmit Freq Error	39.582		ower		00 %		
x dB Bandwidth	15.21 N	IHz x dB		-26.0	0 dB		
MSG				STATUS			

LTE B66_15 M_OBW_Mid_QPSK_FullRB



Magilent Spectrum Analyzer - Occupied BW	5.			_				
RL RF 50 Ω AC Center Freq 1.745000000 PASS PASS PASS PASS) GHz #IFGain:Low	Center Fr			ALIGN AUTO	06:40:37 Radio Std		Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBn								
30.0								Center Freq 1.745000000 GHz
0.00	manan	eren an	vanat vovrana milje	mlu	n n n n n n n n n n n n n n n n n n n			
-10.0					Not the second s			
-20.0 -30.0					¥	www.www.	www.ilwanay	
-40.0								CF Step
Center 1.745 GHz #Res BW 300 kHz		#VE	SW 1.2 N	1Hz			n 30 MHz eep 1 ms	3.000000 MHz
Occupied Bandwidt			Total P	ower	31.	1 dBm		Freq Offset 0 Hz
13	3.480 MI	ΗZ						0112
Transmit Freq Error	40.161	(Hz	OBW P	ower	9	9.00 %		
x dB Bandwidth	15.29 N	IHz	x dB		-26	.00 dB		
MSG					STATU	IS		

LTE B66_15 M_OBW_Mid_16QAM_FullRB



Agilent Spectrum Analyzer - Occupied BW	15.						
M RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB	#IFGain:Low	SENSE:INT Center Freq: 1.745 Trig: Free Run #Atten: 20 dB		ALIGN AUTO : 700/700	06:41:021 Radio Std: Radio Devi		Frequency
10 dB/div Ref 40.00 dBr Log 30.0 20.0							Center Freq 1.745000000 GHz
10.0 0.00 -10.0	A	unnanna Parthaut	Medernaphiladeanang				
-20.0				- ⁵⁴ /5	ulhra, Longilogi	kanaka kun	
-50.0 Center 1.745 GHz #Res BW 300 kHz		#VBW 1.2	MHz			n 30 MHz ep 1 ms	CF Step 3.000000 MHz <u>Auto</u> Man
Occupied Bandwidt	th 3.477 MI	Total	Power	30.1	dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	52.249 I 15.19 N		Power		.00 % 00 dB		
MSG				STATUS			

LTE B66_15 M_OBW_Mid_64QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW								- 6 ×
Center Freq 1.745000000 PASS	GHz #IFGain:Low	Center I			ALIGN AUTO 700/700	Radio Dev		Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBn	ı,							
30.0 20.0								Center Freq 1.745000000 GHz
10.0	promount pres	-elecurra	mhreen	Antonnal	~			
-10.0					N.			
-20.0					- Solar S			
-40.0						hunge exernin	mann	
-50.0								CF Step 3.000000 MHz
Center 1.745 GHz #Res BW 300 kHz		#V	BW 1.2 N	lHz			an 30 MHz eep 1 ms	<u>Auto</u> Man
Occupied Bandwidt			Total P	ower	28.2	2 dBm		Freq Offset
13	3.454 MI	Z						
Transmit Freq Error	34.359	٢Hz	OBW P	ower	99	.00 %		
x dB Bandwidth	15.33 N	IHz	x dB		-26.	00 dB		
MSG					STATU	s		

LTE B66_15 M_OBW_Mid_256QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW					
RL RF 50 Ω AC Center Freq 1.745000000 PASS	GHz #IFGain:Low	SENSE:INT Center Freq: 1.7450000 Trig: Free Run #Atten: 20 dB	ALIGN AUTO 000 GHz Avg Hold: 700/700	06:49:30 PMJul 11, 202 Radio Std: None Radio Device: BTS	Frequency
Ref Offset 27 dB 10 dB/div Ref 40.00 dBn	n				1
30.0					Center Freq 1.745000000 GHz
10.0	Allahour Marine	northe more marked and the second	with a second		
-10.0			h.		-
-20.0 -30.0 miljan market market				contraction and the	
-40.0					CF Step
Center 1.745 GHz #Res BW 390 kHz		#VBW 1.6 MH	 z	Span 40 MHz Sweep 1 ms	4.000000 MHz Auto Man
Occupied Bandwidt		Total Po	wer 32.2	2 dBm	Freq Offset
17	.964 MI	lz			0112
Transmit Freq Error	54.314	Hz OBW Po	wer 99	9.00 %	
x dB Bandwidth	20.13 N	IHz x dB	-26.	00 dB	
MSG			STATU	S	

LTE B66_20 M_OBW_Mid_QPSK_FullRB



Magilent Spectrum Analyzer - Occupied BW	r							0 4
RL RF 50 Ω AC Center Freq 1.745000000 PASS PASS Ref Offset 27 dB Ref 0 ffset 28 dB	#IFGain:Low	Center Fre	Run		ALIGN AUTO 1: 700/700	06:48:33 Radio Sto Radio De		Frequency
30.0 20.0		Rudf VIII, and a capacity	ur had be way	Automosa				Center Freq 1.745000000 GHz
10.0 0.00 -10.0 -20.0 -30.0 -40.0					- Cha	-Mwallho	llvinerluner, yr	
Center 1.745 GHz #Res BW 390 kHz		#VB	W 1.6 №	1Hz			an 40 MHz eep 1 ms	CF Step 4.000000 MHz <u>Auto</u> Man
Occupied Bandwid	th 7.950 MI		Total P	ower	31.	2 dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	68.290 H 20.03 N		OBW P x dB	ower		9.00 % .00 dB		
MSG					STATU	IS		

LTE B66_20 M_OBW_Mid_16QAM_FullRB



Agilent Spectrum Analyzer - Occupied BV	/							
RL RF 50 Ω AC Center Freq 1.745000001 PASS Ref Offset 27 dB	₩FGain:Low	Center Fr			ALIGN AUTO	06:48:56 Radio Std Radio Dev		Frequency
10 dB/div Ref 40.00 dBr 20 0 10 0		and a straight of a straight o						Center Freq 1.745000000 GHz
10.0 0.00 -10.0 -20.0 -30.0 -30.0 -40.0					- hand	Na/Willian Inappi	In-halpplachan	
50.0 Center 1.745 GHz #Res BW 390 kHz		#VE	3W 1.6 N	1Hz			n 40 MHz eep 1 ms	CF Step 4.000000 MHz <u>Auto</u> Man
Occupied Bandwid	th 7.923 Mi	Hz	Total P	ower	30.2	2 dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	70.204 19.90 N		OBW P x dB	ower		9.00 % .00 dB		
MSG					STATU	s		

LTE B66_20 M_OBW_Mid_64QAM_FullRB



Magilent Spectrum Analyzer - Occupied BW	/						0 69
RL RF 50 Ω AC Center Freq 1.745000000 PASS Ref Offset 27 dB 10 dB/div Ref 40.00 dBr	#IFGain:Low	T.I. F.	1.745000000 GH	ALIGN AUTO z old: 700/700	08:20:00 Radio Std: Radio Dev		Frequency
30.0 20.0							Center Freq 1.745000000 GHz
10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0			ukonov Actualization 		whenchennique	erte alteration and	
Center 1.745 GHz #Res BW 390 kHz		#VBW	1.6 MHz			n 40 MHz ep 1 ms	CF Step 4.000000 MHz <u>Auto</u> Man
Occupied Bandwid	th 7.939 MI		otal Power	28.4	l dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	37.087 I 19.65 N		BW Power dB		0.00 % 00 dB		
MSG				STATU	S		

LTE B66_20 M_OBW_Mid_256QAM_FullRB



RL	RF	50 Ω AC		SE	NSE:INT		ALIGN AUTO		PM Jul 11, 2024	Frequency
enter Fre	eq 5.01	500000	00 GHz PNO: Fast IFGain:Low			#Avg Typ	e:RMS	TYP	E 1 2 3 4 5 6 E A WWWWW T A A A A A A A	
dB/div	Ref 10.						Mk	r1 3.682 -67.0	2 5 GHz 15 dBm	Auto Tur
9 .00 .00 .00		\$ ²								Center Fre 5.015000000 GF
).0).0).0										Start Fr 30.000000 M
).0).0).0	al and a graph of the lines			1					RMS	Stop Fr 10.000000000 G
art 30 M Res BW 1	.0 MHz		# V	BW 3.0 MHz			weep 17	.33 ms (2		CF St 997.000000 M <u>Auto</u> M
1 N 1 2 N 1 3 4 5	f		3.682 5 GHz 1.710 9 GHz	-67.015 d -3.442 d	Bm Bm					Freq Offs 0
6 7										
8 9 0					- P		- 1		-	
				m			STATUS			

LTE B66_1.4M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



Agilent Spectrum	RF 50			SENSE:INT	ri i	ALIGN AUTO	06:03:19 PM Ju	11,2024	
enter Fred	q 5.0150	00000	GHz PNO: Fast ← IFGain:Low	Trig: Free Run #Atten: 20 dB	#Avg	Type: RMS	TRACE	2 3 4 5 6 A A A A A	Frequency
) dB/div R	tef 10.00	dBm				Mk	r1 3.176 0 -67.308	GHz dBm	Auto Tur
0.00 0.0 0.0		2							Center Fre 5.015000000 GF
0.0 0.0 0.0									Start Fre 30.000000 Mł
0.0						~~~~~~		RMS	Stop Fre 10.00000000 GH
Res BW 1.0	0 MHz	X	#VB	W 3.0 MHz	FUNCTION	Sweep 17	Stop 10.00 .33 ms (2000	01 pts)	CF Ste 997.000000 Mi Auto M
N 1 2 N 1 3 - - 4 - - 5 - -	f	3.	176 0 GHz 745 3 GHz	-67.308 dBm -3.317 dBm	1 Sherron		T SILCE TON VA		Freq Offs 0 I
6 7 8 9 0 1									
				m					

LTE B66_1.4M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



		Ω AC		SEN	ISE:INT		ALIGN AUTO		M Jul 11, 2024	
enter Fred	ą 5.0150	00000	PNO: Fast IFGain:Low	Trig: Free #Atten: 20		#Avg Typ	e: RMS	TYP	E 1 2 3 4 5 6 E A WWWW T A A A A A A	Frequency
dB/div R	ef 10.00	dBm					Mk	r1 3.719 -67.26	9 GHz 69 dBm	Auto Tu
9 .00 .00 .00		2 								Center Fr 5.015000000 Gi
1.0 1.0										Start Fr 30.000000 M
).0).0).0									RMS	Stop Fr 10.000000000 G
art 30 MH Res BW 1.0) MHz	X	#VE	W 3.0 MHz	FUNCT		weep 17	Stop 10. .33 ms (20		CF St 997.000000 M <u>Auto</u> M
N 1 N 1	f	3	.719 9 GHz .780 2 GHz	-67.269 dE -3.739 dE	3m 3m					Freq Offs 0
7										
									-	

LTE B66_1.4M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



	RF	50 Ω A			SENS	E:INT		ALIGN AUTO		PM Jul 11, 2024	Frequency
enter F	req 5.0	150000): Fast ↔ in:Low	Trig: Free #Atten: 20		#Avg Typ	be: RMS	TYP	PE A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
) dB/div	Ref 1	0.00 dB	m					Mk	r1 3.688 -67.0	8 0 GHz 59 dBm	Auto Tur
0.0 0.0		2									Center Fre 5.015000000 GI
0.0 0.0 0.0											Start Fr 30.000000 M
D.O D.O D.O			and the state of the			<u>مجنية حيرا حيني</u>			an a	RMS	Stop Fre 10.000000000 GI
art 30 f Res BW	1.0 MH	z	X	#VBV	V 3.0 MHz	FUN		weep 17	.33 ms (2	.000 GHz 0001 pts)	CF Sto 997.000000 M <u>Auto</u> M
1 N 2 3	1 f		3.688 0 1.710 9	GHz GHz	-67.059 dBi -2.925 dBi	m				E	Freq Offs
4 5 6											
					ш					-	

LTE B66_3 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



Agilent Spectru		0Ω AC		SENSE:IN	т	ALIGN AUTO	06:11:24 PM Jul 11, 202	24
enter Freq 5.015000000		PNO: Fast IFGain:Low		#Avg	Type: RMS	TRACE 1 2 3 4 5 TYPE A WWWW DET A A A A A	Frequency	
0 dB/div	Ref 10.0					Mk	r1 3.704 4 GH -67.261 dBn	2 Auto Tur
og 0.00 10.0 20.0		²						Center Fre 5.015000000 GH
30.0 10.0 50.0								Start Fre 30.000000 MH
50.0 70.0 50.0		harrison				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Rh	Stop Fre 10.000000000 GF
tart 30 MH Res BW 1	.0 MHz	X	#VB	W 3.0 MHz	FUNCTION	Sweep 17	Stop 10.000 GH .33 ms (20001 pts	Z CF Ste 997.000000 Mi Auto M
1 N 1 2 N 1 3 4 5 5 6 7	f	3	.704 4 GHz .744 3 GHz	-67.261 dBm -3.132 dBm				Freq Offs 01
7 8 9 0 1								
3						STATUS		

LTE B66_3 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



RL	RF	50 Ω AC		SENSE:		ALIGN AUTO	06:13:45 PM		Frequency
nter Freq 5.01500000		DO GHz PNO: Fast IFGain:Low	Trig: Free Ru #Atten: 20 dl	In	g Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A			
dB/div	Ref 1	0.00 dBm	n			MI	r1 3.691 (-67.139	0 GHz dBm	Auto Tur
9 00 0.0 0.0		²							Center Fr 5.015000000 Gi
1.0 1.0									Start Fr 30.000000 M
0.0 0.0 0.0			******	1	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		RMS	Stop Fr 10.00000000 G
art 30 M tes BW	1.0 MH		#VE	W 3.0 MHz	FUNCTION	Sweep 17	Stop 10.00 .33 ms (200	01 pts)	CF Sto 997.000000 M Auto M
N 1 2 N 1 3 4	1 f		3.691 0 GHz 1.780 2 GHz	<u>-67.139 dBm</u> -4.059 dBm					Freq Offs 0
1									
				m		STATU			

LTE B66_3 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB