

	RF 50 Ω A 2.4985000	-	+++ Tr	sense:INT enter Freq: 2. ig: Free Run tten: 10 dB	498500000 GH	ALIGN AL z 100.00% of	Radio 3	1:39 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE							Sciences and a science of the scienc	
).0 ).0 ).0									Center Fre 2.498500000 GH
00 1.0 1.0								Absolute Limit	
).0 ).0		and a start and a start and a				<b></b>		Spectrum	
).0									CF Ste
enter 2.49	9 GHz							Span 20 MHz	2.000000 MH Auto Ma
otal Power			MHz	Lower		Peak ->	Upper		Freq Offs 0 H
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	ΔLim(dB)	Freq (Hz)	
2.500 MHz 3.500 MHz	3.500 MHz 7.500 MHz	100.0 kHz 1.000 MHz		()		-21.68	(-11.68)	2.500 M 3.500 M =	
3.500 MHz 7.500 MHz	7.500 MHz 8.500 MHz	1.000 MHz		() ()		-24.68 -33.56	(-14.68) (-20.56)	3.500 M ≣ 7.505 M	
8.500 MHz	10.00 MHz	1.000 MHz		()		-33.50	(-20.56)	8.515 M	
2.500 MHz	10.00 MHz	68.00 kHz	-24.26	(-74.26)	-2.500 M	-34.00	()	0.5151	
			100				( )		

# LTE B41\_5 M\_Channel Edge\_Upper\_Low\_QPSK\_FullRB



	RF 50 Ω A 2.5930000		+++ Tr	sense:INT enter Freq: 2. ig: Free Run atten: 10 dB	593000000 GH	ALIGN AU z 100.00% of 3	Radio	9:31 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE							Konstalant as a tanàn	
9 .0 .0					~~~~				Center Fre 2.593000000 GF
.0								Absolute Limit	
.0								Spectrum	
.0									05.01
enter 2.59	3 GHz						ş	Span 20 MHz	CF Ste 2.000000 Mi <u>Auto</u> M
otal Power	<b>Ref</b> 22.7	0 dBm / 5 I	MHz	Lower	<-	Peak ->	Upper		Freq Offs 0
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
2.500 MHz	3.500 MHz	100.0 kHz	-21.64	(-11.64)	-2.500 M	-22.51	(-12.51)	2.500 M 🔶	
3.500 MHz	7.500 MHz	1.000 MHz	-25.45	(-15.45)	-3.500 M	-23.89	(-13.89)	3.500 M ≡	
7.500 MHz	8.500 MHz	1.000 MHz	-35.26	(-22.26)	-7.505 M	-34.38	(-21.38)	7.510 M	
8.500 MHz	10.00 MHz	1.000 MHz	-36.80	(-11.80) ()	-8.500 M	-35.93	(-10.93) ()	8.515 M	
8.000 MHz	12.50 MHz	1.000 MHz							

# LTE B41\_5 M\_Channel Edge\_Mid\_QPSK\_FullRB



	Analyzer - Spectrum			SENSE:INT		ALIGN AU	TO 02:4	4:57 PM Jan 03, 2025	
	2.6875000		+++ Tr		687500000 GH		Radio	Std: None Device: BTS	Frequency
0 dB/div	Ref Offset 31. Ref 30.0 dB							Konstrive Linter	
0.0									Center Fre 2.687500000 GF
0.0								Absolute Linit	
0.0	$\sim$		A	~~	$\checkmark$			Spectrum	
).0 ).0			۲ · -						CF Ste
enter 2.68								Span 20 MHz	2.000000 Mł <u>Auto</u> Ma
otal Power	<b>Ref</b> 23.05	ōdBm / 5N	1Hz	Lower		Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	$\Delta Lim(dB)$	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
2.500 MHz	3.500 MHz	30.00 kHz	-54.35	(-44.35)	-2.715 M	-24.96	(-14.96)	2.500 M 🔶	
3.500 MHz	7.500 MHz	1.000 MHz	-28.67	(-18.67)	-6.500 M	-29.02	(-19.02)	3.500 M ≡	
7.500 MHz	8.500 MHz	1.000 MHz	-38.04	(-25.04)	-7.500 M	-40.17	(-27.17)	8.420 M	
8.500 MHz	10.00 MHz	1.000 MHz	-37.67	(-12.67)	-9.940 M	-40.18	(-15.18)	8.560 M	
8.000 MHz	12.50 MHz	1.000 MHz		()			()		
3						ST	ATUS		

# LTE B41\_5 M\_Channel Edge\_High\_QPSK\_1RB



	RF 50 Ω A 2.6875000		+++ Tr	sense:INT enter Freq: 2. ig: Free Run atten: 10 dB	687500000 GH	ALIGN AU z 100.00% of 3	Radio 3	2:55 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE		-					NORMAN T 1111	
).0 ).0									Center Fre 2.687500000 GF
00								Absolute Linit	
).0								Spectrum	
).0									CF Ste
enter 2.68	8 GHz							Span 20 MHz	2.000000 Mi Auto Mi
otal Power	<b>Ref</b> 22.8	1 dBm / 51	MHz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	$\Delta Lim(dB)$	Freq (Hz)	
2.500 MHz	3.500 MHz	100.0 kHz	-21.05	(-11.05)	-2.500 M	-22.40	(-12.40)	2.500 M 🔶	
3.500 MHz	7.500 MHz	1.000 MHz	-21.03	(-11.03)	-3.500 M	-21.17	(-11.17)	3.520 M ≡	
7.500 MHz	8.500 MHz	1.000 MHz	-35.49	(-22.49)	-7.510 M	-34.84	(-21.84)	7.515 M	
8.500 MHz	10.00 MHz	1.000 MHz	-37.26	(-12.26)	-8.508 M	-36.32	(-11.32)	8.530 M	
8.000 MHz	12.50 MHz	1.000 MHz		()					

# LTE B41\_5 M\_Channel Edge\_High\_QPSK\_FullRB



	RF 50Ω A 2.5010000	-	+++ Tri	sense:INT nter Freq: 2. g: Free Run tten: 10 dB	501000000 GH	ALIGN A	Radio 3	1:39 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB								
g								Accounts Leve	
).0 ).0			A						Center Fre 2.501000000 GF
00									
0.0									
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0.0			1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~ u ha	m	JL LA	Spectrum	
).0									
									CF Ste
enter 2.50	1 GHz						5	Span 40 MHz	4.000000 M Auto M
otal Power	<b>Ref</b> 23.9	6 dBm / 10 M	MHz						Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	Lower ∆Lim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)	0
5.000 MHz	6.000 MHz	30.00 kHz	-31.93	(-18.93)	-5.005 M	ubin	ΔLIM(GB) ()	rieq (nz)	
6.000 MHz	10.50 MHz	1.000 MHz	-31.93	(-18.93)	-5.005 M		()		
10.50 MHz	20.00 MHz	1.000 MHz	-39.10	(-14.10)	-10.69 M		()		
5.000 MHz	20.00 MHz	150.0 kHz		()		-34.81	(-84.81)	13.25 M	
8.000 MHz	12.50 MHz	1.000 MHz		()			()		
							TATUS		

# LTE B41\_10 M\_Channel Edge\_Lower\_Low\_QPSK\_1RB



RL	Analyzer - Spectrum RF 50 Ω A	с	-	SENSE:INT		ALIGN A		2:59 PM Jan 03, 2025	Frequency
enter Fred ASS	2.5010000	IOO GHZ IFGain:Lo	Tri	g: Free Run tten: 10 dB	501000000 GH Avg: 1	100.00% of	3	Std: None Device: BTS	
0 dB/div	Ref Offset 31. Ref 30.0 dE								
og 0.0			ħ					Relative Linte	Center Fre
0.0									2.501000000 GH
.00									
0.0									
0.0								Absolute Limit	
0.0					Λ			Absolute Limit	
0.0			$/ \langle$	A		$\sim$	$\sim \land$		
0.0	ale	www		~~~	$\sim$			Spectrum	
					***				
0.0									CF Ste
enter 2.50	1 GHz						ę	Span 40 MHz	4.000000 Mi Auto Ma
otal Power	Ref 23.9	6 dBm / 10 l	MHz						
				Lower		Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	01
5.000 MHz	6.000 MHz	30.00 kHz		()		-52.88	(-42.88)	5.205 M 🔶	
6.000 MHz	10.00 MHz	1.000 MHz		()		-36.38	(-26.38)	7.540 M ≡	
10.00 MHz	15.00 MHz	1.000 MHz		()		-31.41	(-18.41)	13.30 M	
15.00 MHz	20.00 MHz	1.000 MHz		()		-42.43	(-17.43)	15.00 M	
5.000 MHz	20.00 MHz	150.0 kHz	-25.80	(-75.80)	-5.000 M		()		
3						S	TATUS		

# LTE B41\_10 M\_Channel Edge\_Upper\_Low\_QPSK\_1RB



	RF 50 Ω A 2.5010000		+++ Tr	sense: INT enter Freq: 2. rig: Free Run Atten: 10 dB	501000000 GH	ALIGN AU z 100.00% of 3	Radio 3	9:07 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB								
g								AKSTONISLITT	
									Center Fre
.0									2.50100000 G
.0									
.0									
.0									
.0									
.0							~	Spectrum	
.0									CF Ste
enter 2.50	1 GHz						{	Span 40 MHz	4.000000 Mi Auto M
otal Power	<b>Ref</b> 23.09	9 dBm / 10 M	ИНz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
5.000 MHz	6.000 MHz	200.0 kHz	-26.45	(-13.45)	-5.005 M		()	^	
6.000 MHz	10.50 MHz	1.000 MHz	-27.77	(-14.77)	-6.000 M		()	E	
10.50 MHz	20.00 MHz	1.000 MHz	-33.00	(-8.00)	-10.50 M		()		
5.000 MHz	20.00 MHz	150.0 kHz		()		-26.35	(-76.35)	5.000 M	
8.000 MHz	12.50 MHz	1.000 MHz		()			()		
						ST			

#### LTE B41\_10 M\_Channel Edge\_Lower\_Low\_QPSK\_FullRB



	RF 50 Ω A 2.5010000		+++ Tr	SENSE:INI nter Freq: 2. ig: Free Run tten: 10 dB	501000000 GH	ALIGN AU z 100.00% of 3	Radio	0:27 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB								
9 <b>9</b> ).0 ).0									Center Fre 2.501000000 GH
00									
).0 ).0							-	Absolute Limit	
).0 .0									
enter 2.50	1 GHz							Span 40 MHz	CF Ste 4.000000 Mi <u>Auto</u> Mi
otal Power	<b>Ref</b> 23.12	2 dBm / 10	MHz	Lower	<.	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)		∆Lim(dB)	Freq (Hz)	
5.000 MHz	6.000 MHz	200.0 kHz		()		-24.78	(-14.78)	5.000 M 🔶	
6.000 MHz	10.00 MHz	1.000 MHz		()		-27.36	(-17.36)	6.000 M =	
10.00 MHz	15.00 MHz	1.000 MHz		()		-31.29	(-18.29)	11.03 M	
15.00 MHz	20.00 MHz	1.000 MHz 150.0 kHz	-27.84	() (-77.84)	-5.000 M	-37.45	(-12.45) ()	15.03 M	
5.000 MHz	20.00 MHz								

# LTE B41\_10 M\_Channel Edge\_Upper\_Low\_QPSK\_FullRB



	RF 50 Ω A 2.5930000		+++ Tr	SENSE:INT enter Freq: 2. rig: Free Run Atten: 10 dB	593000000 GH	ALIGN AU z 100.00% of 3	Radio	7:52 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB							sources and a second second second	
<b>g</b> 0 0									Center Fre 2.593000000 GH
.0									
.0		1			-1		_	Absolute Limit	
.0									
enter 2.593	3 GHz							Span 40 MHz	CF Ste 4.000000 MH <u>Auto</u> Ma
otal Power	<b>Ref</b> 22.73	3 dBm / 10 l	MHz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	$\Delta Lim(dB)$	Freq (Hz)		∆Lim(dB)	Freq (Hz)	
5.000 MHz	6.000 MHz	200.0 kHz	-26.81	(-16.81)	-5.000 M	-25.03	(-15.03)	5.000 M _	
6.000 MHz	10.00 MHz	1.000 MHz	-28.40	(-18.40)	-6.000 M	-27.15	(-17.15)	6.000 M =	
10.00 MHz 15.00 MHz 8.000 MHz	15.00 MHz 20.00 MHz 12.50 MHz	1.000 MHz 1.000 MHz 1.000 MHz	-32.90 -38.24 	(-19.90) (-13.24) ()	-10.00 M -15.00 M	-32.54 -38.40	(-19.54) (-13.40) ()	10.85 M 15.00 M	

# LTE B41\_10 M\_Channel Edge\_Mid\_QPSK\_FullRB



	RF 50 Ω A 2.6850000	000 GHz IFGain:Lo	+++ Tr	sense:INT enter Freq: 2. ig: Free Run tten: 10 dB	685000000 GH	ALIGN AU	Radio 3	3:15 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE		-					Keletive Lind	
).0 ).0					A				Center Fre 2.685000000 GF
00								Absolute Limit	
1.0 .0		~~~~	A	~h		~~		Spectrum	
.0			~						CF Ste
enter 2.68	5 GHz						\$	Span 40 MHz	4.000000 Mi <u>Auto</u> Mi
otal Power	Ref 23.2	4 dBm / 10 l	MHz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)		∆Lim(dB)	Freq (Hz)	
	6.000 MHz	30.00 kHz	-54.56	(-44.56)	-5.260 M	-33.98	(-23.98)	5.000 M _	
5.000 MHz	10.00 MHz	1.000 MHz	-37.55	(-27.55)	-7.480 M	-32.32	(-22.32)	6.000 M ≡	
6.000 MHz					-13.23 M	-40.53	(-27.53)	10.78 M	
6.000 MHz 10.00 MHz	15.00 MHz	1.000 MHz	-29.75	(-16.75)					
6.000 MHz		1.000 MHz 1.000 MHz 1.000 MHz	-29.75 -43.61	(-16.75) (-18.61) ()	-15.00 M	-45.00	(-20.00)	15.00 M	

# LTE B41\_10 M\_Channel Edge\_High\_QPSK\_1RB



Center Freq 2.685000000 GHz       Center Freq: 2.685000000 GHz       Radio Std: None         ASS       IFGain:Low       #Atten: 10 dB       Avg: 100.00% of 3       Radio Device: BTS         Ref Offset 31.18 dB       0		Analyzer - Spectrum			SENSE:INT	a. T	ALIGN AU	02:0	1:15 PM Jan 03, 2025	
0 dB/div Ref 30.0 dBm Center Fr 2.68500000 G Center F 2.68500000 G Center F 2.68500000 G Center F 2.68500000 G Center F 2.68500000 G Center F 2.68500000 G Center F 2.68500000 MHz Center Center F 2.68500000 MHz Center Center F 2.68500000 MHz Center Center F 2.68500000 MHz CEF St 4.00000 MHz 5000 MHz 5000 MHz 5000 MHz 1000 MHz		00 36 11	00 GHz	•+• T	enter Freq: 2. rig: Free Run	685000000 GH	z	Radio 3	Std: None	Frequency
Control         Center Fr           200         Absolve Line           2000         Absolve Line	10 dB/div			_					Nonality at 1 line	
100       Absolde Let         200       Absolde Let         200       Spectrum         200       Spect	20.0									Center Free 2.685000000 GH
30.0	0.00						_			
50.0       Image: Start Freq       Start Freq       Start Freq       Start Freq       Start Freq       Number Start Freq       Start Freq       Start Freq       Start Freq       Start Sta	0.0					7				
CF St         Span 40 MHz         CF St           Conter 2.685 GHz         Span 40 MHz         Auto         M           Cotal Power Ref         22.88 dBm / 10 MHz         Image: Content of the second	50.0									
Start Freq         Stop Freq         Integ BW         dBm         ∆Lim(dB)         Freq (Hz)         0           5.000 MHz         6.000 MHz         200.0 kHz         -24.36         (-14.36)         -5.000 M         -24.26         (-14.26)         5.005 M         6.000 M         10.00 MHz         1.000 MHz         -24.19         (-14.19)         -6.000 M         -24.52         (-14.52)         6.000 M         10.08 M           10.00 MHz         15.00 MHz         1.000 MHz         -29.41         (-16.41)         -10.05 M         -29.56         (-16.56)         10.08 M         15.00 M           15.00 MHz         20.00 MHz         1.000 MHz         -38.42         (-13.42)         -15.00 M         -39.17         (-14.17)         15.00 M           8.000 MHz         12.50 MHz         1.000 MHz          ()          ()		5 GHz							Span 40 MHz	CF Ste 4.000000 MH Auto Ma
Start Freq         Stop Freq         Integ BW         dBm $\Delta$ Lim(dB)         Freq (Hz)         dBm $\Delta$ Lim(dB)         Freq (Hz)           5.000 MHz         6.000 MHz         200.0 kHz         -24.36         (-14.36)         -5.000 M         -24.26         (-14.26)         5.005 M           6.000 MHz         10.00 MHz         1.000 MHz         -24.19         (-14.19)         -6.000 M         -24.52         (-14.52)         6.000 M           10.00 MHz         15.00 MHz         1.000 MHz         -29.41         (-16.41)         -10.05 M         -29.56         (-16.56)         10.08 M           15.00 MHz         20.00 MHz         1.000 MHz         -38.42         (-13.42)         -15.00 M         -39.17         (-14.17)         15.00 M           8.000 MHz         12.50 MHz         1.000 MHz	otal Power	Ref 22.88	8 dBm / 10 l	MHz						FreqOffs
5.000 MHz         6.000 MHz         200.0 kHz         -24.36         (-14.36)         -5.000 M         -24.26         (-14.26)         5.005 M         -24.52           6.000 MHz         10.00 MHz         1.000 MHz         -24.19         (-14.19)         -6.000 M         -24.52         (-14.26)         5.005 M         -10.05 M           10.00 MHz         15.00 MHz         1.000 MHz         -29.41         (-16.41)         -10.05 M         -29.56         (-16.56)         10.08 M           15.00 MHz         20.00 MHz         1.000 MHz         -38.42         (-13.42)         -15.00 M         -39.17         (-14.17)         15.00 M           8.000 MHz         12.50 MHz         1.000 MHz          ()          ()	Start Freq	Stop Frea	Integ BW	dBm					Freg (Hz)	0 H
6.000 MHz         10.00 MHz         1.000 MHz         -24.19         (-14.19)         -6.000 M         -24.52         (-14.52)         6.000 M         10.00 MHz           10.00 MHz         15.00 MHz         1.000 MHz         -29.41         (-16.41)         -10.05 M         -29.56         (-16.56)         10.08 M           15.00 MHz         20.00 MHz         1.000 MHz         -38.42         (-13.42)         -15.00 M         -39.17         (-14.17)         15.00 M           8.000 MHz         12.50 MHz         1.000 MHz          ()          ()										
15.00 MHz         20.00 MHz         1.000 MHz         -38.42         (-13.42)         -15.00 M         -39.17         (-14.17)         15.00 M           8.000 MHz         12.50 MHz         1.000 MHz          ()          ()										
8.000 MHz 12.50 MHz 1.000 MHz () ()										
						-15.00 M	-39.17		15.00 M	
	A REAL PROPERTY OF		1.000 MINZ		()		12			

# LTE B41\_10 M\_Channel Edge\_High\_QPSK\_FullRB



	RF 50Ω A 2.5035000	-	+++ Tri	sense:INT nter Freq: 2. g: Free Run tten: 10 dB	503500000 GH	ALIGN AL 2 100.00% of	Radio 3	9:12 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB								
g								75650 AN 11670	
0.0			A						2.503500000 GH
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			r		Wh	m		Spectrum	
.0									
									CF Ste
enter 2.50	4 GHz						(	Span 60 MHz	6.000000 Mi Auto Mi
otal Power	<b>Ref</b> 23.93	3 dBm / 15 M	MHz						Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	Lower ∆Lim(dB)	Freq (Hz)	Peak -> dBm	Upper <u> <u> </u> </u>	Freq (Hz)	0
7.500 MHz	8.500 MHz	30.00 kHz	-30.35	(-17.35)	-7.500 M	ubiii	ΔLIM(0B)	rieq (nz)	
8.500 MHz	13.00 MHz	1.000 MHz	-30.35	(-17.33)	-7.500 M		()		
13.00 MHz	30.00 MHz	1.000 MHz	-39.56	(-14.56)	-13.09 M		()		
7.500 MHz	30.00 MHz	220.0 kHz		()		-35.12	(-85.12)	20.01 M	
8.000 MHz	12.50 MHz	1.000 MHz		()			()		

# LTE B41\_15 M\_Channel Edge\_Lower\_Low\_QPSK\_1RB



	RF 50 Ω A				503500000 GH		Radio	0:32 PM Jan 03, 2025 Std: None	Frequency
ASS		IFGain:Lo		g: Free Run tten: 10 dB	Avg: 1	100.00% of		Device: BTS	
) dB/div	Ref Offset 31. Ref 30.0 dB								
o.0			٨					Relativa Lintr	Center Fre
0.0									2.503500000 GH
.00									
D.O						_			
0.0								Absolute Limit	
0.0					A			Absolute Limit	
			1	· A	, II r	~	$\wedge$	Spectrum	
0.0	Am	m		and and	~~~~				
0.0					<u>لما</u>				
									CF Ste
enter 2.504	4 GHz						ę	Span 60 MHz	6.00000 Mł <u>Auto</u> Ma
otal Power	<b>Ref</b> 23.9	7 dBm / 15	MHz						
	20101								Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	Lower ∆Lim(dB)	Freq (Hz)	Peak -> dBm	Upper ∆Lim(dB)	Freq (Hz)	01
7.500 MHz	8.500 MHz	30.00 kHz		()		-54.26	(-44.26)	7.750 M	
8.500 MHz	12.50 MHz	1.000 MHz		()		-36.81	(-26.81)	8.540 M =	
12.50 MHz	22.50 MHz	1.000 MHz		()		-32.90	(-19.90)	19.95 M	
22.50 MHz	30.00 MHz	1.000 MHz		()		-42.95	(-17.95)	22.50 M	
7.500 MHz	30.00 MHz	220.0 kHz	-21.50	(-71.50)	-7.500 M		()		
3							TATUS		

# LTE B41\_15 M\_Channel Edge\_Upper\_Low\_QPSK\_1RB



	RF 50 Ω A 2.5035000	-	+++ Tr	sense:INT enter Freq: 2. ig: Free Run atten: 10 dB	503500000 GH	ALIGN AL 2 100.00% of	Radio 3	6:40 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB								
g								ASSES AN UTIL	
.0									Center Fre
									2.503500000 GI
00									
.0									
.0									
.0									
			V						
.0							m	Spectrum	
.0							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
.0									
									CF Ste
enter 2.50	4 GHz						ę	Span 60 MHz	6.000000 M Auto M
otal Power	Ref 22.94	4 dBm / 15 M	MHz	Lower	<.	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
7.500 MHz	8.500 MHz	300.0 kHz	-27.06	(-14.06)	-7.500 M		()	<b>^</b>	
8.500 MHz	13.00 MHz	1.000 MHz	-30.44	(-17.44)	-8.500 M		()	=	
13.00 MHz	30.00 MHz	1.000 MHz	-34.41	(-9.41)	-13.00 M		()		
7.500 MHz	30.00 MHz	220.0 kHz		()		-29.57	(-79.57)	7.500 M	
8.000 MHz	12.50 MHz	1.000 MHz		()			()		

# LTE B41\_15 M\_Channel Edge\_Lower\_Low\_QPSK\_FullRB



enter Fred	RF 50Ω A <b>2.5035000</b>	-	Tri	SENSE:INT nter Freq: 2. g: Free Run tten: 10 dB	503500000 GH	ALIGN AU z 100.00% of 3	Radio 3	8:00 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB							bosserver i rada	
).0 ).0 ).0									Center Fre 2.503500000 GH
.0								7	
1.0 1.0					~			Absolute Limit	
1.0									
enter 2.50	4 GHz						ş	Span 60 MHz	CF Ste 6.000000 MH <u>Auto</u> Ma
otal Power			MHz	Lower		Peak ->	Upper		Freq Offs 0 F
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
7.500 MHz	8.500 MHz	300.0 kHz		()		-27.89	(-17.89)	7.500 M	
8.500 MHz 12.50 MHz	12.50 MHz 22.50 MHz	1.000 MHz 1.000 MHz		()		-30.31 -33.50	(-20.31)	8.500 M ≡ 12.50 M	
22.50 MHz	30.00 MHz	1.000 MHz		() ()		-33.50	(-20.50)	22.50 M	
7.500 MHz	30.00 MHz	220.0 kHz	-28.74	(-78,74)	-7.500 M	-39.09	(-14.09)	22.50 101	
	the second se			(			( )		

# LTE B41\_15 M\_Channel Edge\_Upper\_Low\_QPSK\_FullRB



	RF 50 Ω A 2.5930000	-	+++ Tr	sense:INT enter Freq: 2. ig: Free Run tten: 10 dB	593000000 GH	ALIGN AU z 100.00% of 3	Radio	5:24 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE								
9 <b>9</b> 0.0 0.0									Center Fre 2.593000000 GH
00									
1.0 1.0								Absolute Limit	
1.0									
enter 2.59	3 GHz		1				ş	Span 60 MHz	CF Ste 6.000000 Mi <u>Auto</u> Ma
otal Power	<b>Ref</b> 22.7	0 dBm / 15 l	MHz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	$\Delta Lim(dB)$	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
7.500 MHz	8.500 MHz	300.0 kHz	-28.66	(-18.66)	-7.500 M	-27.58	(-17.58)	7.500 M 🗠	
8.500 MHz	12.50 MHz	1.000 MHz	-30.63	(-20.63)	-8.500 M	-30.05	(-20.05)	8.500 M ≡	
12.50 MHz	22.50 MHz	1.000 MHz	-33.62	(-20.62)	-12.60 M	-34.19	(-21.19)	12.80 M	
22.50 MHz	30.00 MHz	1.000 MHz	-39.94	(-14.94)	-22.54 M	-40.55	(-15.55) ()	22.54 M	
8.000 MHz	12.50 MHz	1.000 MHz							

# LTE B41\_15 M\_Channel Edge\_Mid\_QPSK\_FullRB



	RF 50 Ω A 2.6825000		+++ Tr	SENSE:INT nter Freq: 2. ig: Free Run tten: 10 dB	682500000 GH	ALIGN AU z 100.00% of 3	Radio 3	4:33 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE							Kelanve Lindt	
					<u> </u>				Center Fre 2.682500000 GH
00 1.0						_		Absolute Limit	
.0			M	-M-		$\sim$		Spectrum	
.0									CF Ste
enter 2.68	3 GHz						\$	Span 60 MHz	6.000000 MH <u>Auto</u> Ma
otal Power	Ref 23.7	3 dBm / 15 l	MHz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	$\Delta Lim(dB)$	Freq (Hz)	
7.500 MHz	8.500 MHz	30.00 kHz	-54.90	(-44.90)	-7.715 M	-30.68	(-20.68)	7.500 M 🔶	
8.500 MHz	12.50 MHz	1.000 MHz	-36.94	(-26.94)	-8.700 M	-32.45	(-22.45)	8.500 M ≡	
12.50 MHz	22.50 MHz	1.000 MHz	-24.85	(-11.85)	-20.05 M	-38.08	(-25.08)	13.25 M	
	30.00 MHz	1.000 MHz	-44.22	(-19.22)	-22.50 M	-45.20	(-20.20)	22.50 M	
22.50 MHz 8.000 MHz	12.50 MHz	1.000 MHz		()			()		

# LTE B41\_15 M\_Channel Edge\_High\_QPSK\_1RB



	RF 50 Ω A 2.6825000		+++ Tr	sense:INT enter Freq: 2. ig: Free Run Atten: 10 dB	682500000 GH	ALIGN AU z 100.00% of 3	Radio 3	2:34 PM Jan 03, 2025 Std: None Device: BTS	Frequency
) dB/div	Ref Offset 31. Ref 30.0 dB		_						
o.o 0.0									Center Fre 2.682500000 GH
00									
0.0 0.0 0.0			V		4			Absolute Limit	
0.0 0.0									05.014
enter 2.68	3 GHz						(	Span 60 MHz	CF Ste 6.000000 MH Auto Ma
otal Power			MHz	Lower		Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	ΔLim(dB)	Freq (Hz)	
7.500 MHz	8.500 MHz	300.0 kHz	-27.75	(-17.75)	-7.500 M	-27.70	(-17.70)	7.500 M	
8.500 MHz	12.50 MHz	1.000 MHz	-28.14	(-18.14)	-8.500 M	-28.38	(-18.38)	8.520 M ≡	
12.50 MHz	22.50 MHz	1.000 MHz	-31.15	(-18.15)	-12.55 M	-31.51	(-18.51)	12.55 M	
22.50 MHz 8.000 MHz	30.00 MHz 12.50 MHz	1.000 MHz 1.000 MHz	-40.16	(-15.16)	-22.50 M	-41.64	(-16.64)	22.58 M	
		1.000 1111 12.		()			()		

# LTE B41\_15 M\_Channel Edge\_High\_QPSK\_FullRB



	RF 50 Ω A 2.5060000	-	+++ Tri	sense:INT nter Freq: 2. g: Free Run tten: 10 dB	506000000 GH	ALIGN AU	Radio	5:40 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dB								
g								ASSISTANTICA	
.0			- 1						Center Fre
						_			2.506000000 GH
.0									
.0					٨				
.0					<u>A</u>				
				A.					
.0				m	mal horas	0	. 1		
.0			1			a produced to the second	almanand been	Spectrum	
.0									
									CF Ste
enter 2.50	6 GHz						ş	Span 80 MHz	8.000000 Mi Auto M
otal Power	<b>Ref</b> 23.9	6 dBm / 20 M	MHz						Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	Lower ∆Lim(dB)	Freq (Hz)	Peak -> dBm	Upper ∆Lim(dB)	Freq (Hz)	0
10.00 MHz	11.00 MHz	30.00 kHz	-39.68	(-26.68)	-10.00 M	abin	()	ricq (iiz)	
11.00 MHz	15.50 MHz	1.000 MHz	-39.08	(-20.00)	-11.00 M		()		
15.50 MHz	40.00 MHz	1.000 MHz	-41.65	(-16.65)	-15.50 M		()		
10.00 MHz	40.00 MHz	270.0 kHz		()		-36.44	(-86.44)	26.62 M	
8.000 MHz	12.50 MHz	1.000 MHz		()			()		

# LTE B41\_20 M\_Channel Edge\_Lower\_Low\_QPSK\_1RB



	Analyzer - Spectrum RF 50 Ω A			SENSE:INT		ALIGN AL	JTO 04:0	7:00 PM Jan 03, 2025	
enter Fred ASS	2.5060000	IFGain:Lo	+++ Tri	nter Freq: 2. g: Free Run tten: 10 dB	506000000 GH Avg: 1	z 100.00% of	3	Std: None Device: BTS	Frequency
) dB/div	Ref Offset 31. Ref 30.0 dE								
og 0.0 0.0									Center Fre 2.506000000 GH
.00 D.0						-			
0.0 0.0 0.0			A.	. ^ .			$\wedge$	Absolute Limit	
	^	h						Spectrum	
enter 2.50	6 GHz							Span 80 MHz	CF Ste 8.000000 Mi <u>Auto</u> Mi
otal Power			MHz	Lower		Peak ->	Upper		Freq Offs 01
Start Freq 10.00 MHz	Stop Freq	Integ BW	dBm	ΔLim(dB)	Freq (Hz)	dBm	$\Delta \text{Lim}(\text{dB})$	Freq (Hz)	
10.00 MHz 11.00 MHz	11.00 MHz 15.00 MHz	30.00 kHz 1.000 MHz		() ()		-51.26 -40.02	(-41.26) (-30.02)	10.22 M ^ 13.80 M =	
15.00 MHz	30.00 MHz	1.000 MHz		()		-40.02	(-30.02)	26.70 M	
30.00 MHz	40.00 MHz	1.000 MHz		()		-43.78	(-18.78)	30.00 M	
and a state of the	40.00 MHz	270.0 kHz	-30.17	(-80.17)	-10.00 M		()		
10.00 MHz	40.00 MHZ	270.0 KHZ	-30.17	(-00.17)	-10.00 14		()		

# LTE B41\_20 M\_Channel Edge\_Upper\_Low\_QPSK\_1RB



	RF 50 Ω A 2.5060000	-	T	sense: INT enter Freq: 2. rig: Free Run Atten: 10 dB	506000000 GH	ALIGN AU	Radio 3	3:08 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE								
g								ACCENTION	
).0									Center Fre 2.506000000 GF
00									
.0									
.0									
.0			1						
.0			×		1000	warmonia arg	Lanner	Spectrum	
.0							June .	the answer would be a strain	
.0									
									CF Ste
enter 2.50	6 GHz						ŝ	Span 80 MHz	8.000000 M Auto M
otal Power	<b>Ref</b> 22.93	3 dBm / 20 l	MHz						Freq Offs
	01 F		10	Lower		Peak ->	Upper	<b>F</b> (11-)	0
Start Freq 10.00 MHz	Stop Freq 11.00 MHz	Integ BW 430.0 kHz	dBm	$\Delta \text{Lim}(\text{dB})$	Freq (Hz)	dBm	ΔLim(dB)	Freq (Hz)	
10.00 MHz	11.00 MHz 15.50 MHz	430.0 KHZ 1.000 MHz	-32.17 -33.93	(-19.17) (-20.93)	-10.01 M -11.00 M		() ()	ô	
15.50 MHz	40.00 MHz	1.000 MHz	-36.07	(-20.93)	-15.50 M		()		
10.00 MHz	40.00 MHz	270.0 kHz		()		-33.19	(-83.19)	10.00 M	
8.000 MHz	12.50 MHz	1.000 MHz		()			()		

# LTE B41\_20 M\_Channel Edge\_Lower\_Low\_QPSK\_FullRB



	RF 50 Ω A 2.5060000		+++ Tri	SENSE:INT nter Freq: 2. g: Free Run tten: 10 dB	506000000 GH	ALIGN AU z 100.00% of 3	Radio	4:28 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE								
9 <b>9</b> 0.0 0.0								Kelative Little	Center Fre 2.506000000 GH
00									
1.0 1.0					b			Absolute Limit	
.0	and the second s	9-4-9-19-19-19-19-19-19-19-19-19-19-19-19-1							
enter 2.50	6 GHz							Span 80 MHz	CF Ste 8.000000 Mi <u>Auto</u> Mi
otal Power			MHz	Lower		Peak ->	Upper		Freq Offs 01
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
10.00 MHz	11.00 MHz	430.0 kHz		()		-30.47	(-20.47)	10.00 M	
11.00 MHz 15.00 MHz	15.00 MHz	1.000 MHz 1.000 MHz		()		-33.02 -35.05	(-23.02)	11.00 M ≡ 15.08 M ─	
30.00 MHz	30.00 MHz 40.00 MHz	1.000 MHz 1.000 MHz		() ()		-35.05	(-22.05) (-16.20)	15.08 M 30.00 M	
10.00 MHz	40.00 MHz	270.0 kHz	-33.94	(-83.94)	-10.00 M	-41.20	(-10.20)	50.00 W	
							( )		

# LTE B41\_20 M\_Channel Edge\_Upper\_Low\_QPSK\_FullRB



	RF 50 Ω A 2.5930000		+++ Tr	sense:INT enter Freq: 2. ig: Free Run atten: 10 dB	593000000 GH	ALIGN AU Iz 100.00% of 3	Radio	1:50 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE		_						
<b>&gt;g</b> D.0 D.0									Center Fre 2.593000000 GH
00									
0.0 0.0 0.0			1		5			Absolute Limit	
0.0 0.0									
enter 2.59	3 GHz						ę	Span 80 MHz	CF Ste 8.000000 MH Auto Ma
otal Power	Ref 22.8	1 dBm / 20 1	MHz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	$\Delta Lim(dB)$	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
10.00 MHz	11.00 MHz	430.0 kHz	-31.29	(-21.29)	-10.00 M	-30.40	(-20.40)	10.00 M 🔶	
11.00 MHz	15.00 MHz	1.000 MHz	-32.50	(-22.50)	-11.00 M	-32.29	(-22.29)	11.02 M =	
15.00 MHz	30.00 MHz	1.000 MHz	-34.02	(-21.02)	-15.30 M	-34.93	(-21.93)	15.15 M	
30.00 MHz	40.00 MHz	1.000 MHz	-41.05	(-16.05)	-30.00 M	-41.82	(-16.82) ()	30.00 M	
8.000 MHz	12.50 MHz	1.000 MHz		()					

# LTE B41\_20 M\_Channel Edge\_Mid\_QPSK\_FullRB



	RF 50 Ω A 2.6800000		+++ Tri	SENSE:INT nter Freq: 2. g: Free Run tten: 10 dB	68000000 GH	ALIGN AU 2 100.00% of 3	Radio	7:13 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE							Konstruct i mart	
).0 ).0					<u>^</u>				Center Fre 2.680000000 GH
00								Absolute Limit	
),0			MA	nhm	M			Spectrum	
).0									CF Ste
enter 2.68	GHz						Ş	Span 80 MHz	8.000000 MH <u>Auto</u> Ma
otal Power	Ref 22.4	8 dBm / 20 1	MHz	Lower	<-	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)		∆Lim(dB)	Freq (Hz)	
10.00 MHz	11.00 MHz	30.00 kHz	-52.78	(-42.78)	-10.27 M	-42.19	(-32.19)	10.00 M 🔶	
11.00 MHz	15.00 MHz	1.000 MHz	-41.50	(-31.50)	-13.86 M	-34.98	(-24.98)	11.00 M ≡	
15.00 MHz	30.00 MHz	1.000 MHz	-30.86	(-17.86)	-26.70 M	-41.36	(-28.36)	17.85 M	
	40.00 MHz	1.000 MHz	-44.63	(-19.63)	-30.00 M	-45.93	(-20.93)	30.05 M	
30.00 MHz 8.000 MHz	12.50 MHz	1.000 MHz		()			()		

# LTE B41\_20 M\_Channel Edge\_High\_QPSK\_1RB



	RF 50 Ω AC req 2.680000000 GHz IFGain:Low			SENSE:INT         ALIGN AUTO           Center Freq: 2.680000000 GHz            Trig: Free Run         Avg: 100.00% of 3           #Atten: 10 dB			Radio	5:12 PM Jan 03, 2025 Std: None Device: BTS	Frequency
dB/div	Ref Offset 31. Ref 30.0 dE								
9 <b>9</b> 0.0 0.0				- Ballin Process				Neteriory Line	Center Fre 2.680000000 GH
00									
).0 ).0			1		6			Absolute Limit	
),0 ).0								Spectrum	
enter 2.68	GHz							Span 80 MHz	CF Ste 8.000000 Mi Auto Mi
otal Power	<b>Ref</b> 22.9	8 dBm / 20 1	MHz	Lower	<.	Peak ->	Upper		Freq Offs
Start Freq	Stop Freq	Integ BW	dBm	∆Lim(dB)	Freq (Hz)	dBm	∆Lim(dB)	Freq (Hz)	
10.00 MHz	11.00 MHz	430.0 kHz	-28.63	(-18.63)	-10.00 M	-29.00	(-19.00)	10.00 M 🗠	
11.00 MHz	15.00 MHz	1.000 MHz	-28.03	(-18.03)	-11.00 M	-28.52	(-18.52)	11.00 M ≡	
15.00 MHz	30.00 MHz	1.000 MHz	-30.32	(-17.32)	-15.00 M	-30.80	(-17.80)	15.00 M	
30.00 MHz	40.00 MHz	1.000 MHz	-41.23	(-16.23)	-30.00 M	-43.09	(-18.09) ()	30.05 M	
8.000 MHz	12.50 MHz	1.000 MHz							

# LTE B41\_20 M\_Channel Edge\_High\_QPSK\_FullRB



# **10. ANNEX A\_ TEST SETUP PHOTO**

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2501-FC045-P