

KEYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A WWWWW A A A A A A	Center Frequency 1.780000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.29 d		Mkr1	1.780 000 GHz -31.278 dBm	4.00000000 MHz	
7.3						Full Span	
2.71						Start Freq 1.778000000 GHz	
2.7					DL1-13.00 dBm	Stop Freq 1.782000000 GHz	
2.7		1				AUTO TUNE	
2.7					RMS	CF Step 400.000 kHz	
2.7						Auto Man	
52.7						Freq Offset 0 Hz	
enter 1.780000 GHz Res BW 270 kHz		#Video BW 910	kHz	#Swee	Span 4.000 MHz p ~2.01 s (1001 pts)		Loc
1 n C	? Jan 09, 2025 3:39:46 PM					Signal Track (Span Zoom)	

NR66_25 M_Band Edge_High_BPSK_FullRB



KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 14 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.781500 Avg Hold: 5/5 Radio Std: None	000 GHz	procession and an owner of the	requency 10000 GHz	Settings
Graph	*		Ref LvI Offset 27				4.0000 I	MHz	
cale/Div 10.0	dB		Ref Value 30.00	dBm			CF Step 400.000		1
0.0							Auto	2	
0.0							Freq Offs 0 Hz	set	
0.0						RMS AVG			
enter 1.78150 es BW 39.000			Video BW 390.0	0 kHz*	#Sweep 2.0	Span 4 MHz 0 s (1001 pts)			
Metrics	•								
Total Chann	el Power	-28.10 dBm / 1.0	0 MHz						_
Total Power	Spectral Density	y -88.10 d	Bm/Hz						Loca
		Jan 09, 2025 3:40:03 PM	\square						

NR66_25 M_Extended Band Edge_High_BPSK_FullRB



KEYSIGHT Input: RF RL +++ Coupling: DC Align: Auto Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Rur	wer (RMS <mark>1</mark> 23456 A WWWWW A A A A A A	Center Frequency 1.710000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.29 d		Mkr1	1.710 000 GHz -27.953 dBm	4.00000000 MHz	
7.3			~	\		Full Span	
2.71						Start Freq 1.708000000 GHz	
12.7					DL1 -13.00 dBm	Stop Freq 1.712000000 GHz	1
22.7		9 1				AUTO TUNE	
42.7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				RMS	CF Step 400.000 kHz Auto Man	
52.7						Freq Offset 0 Hz	
enter 1.710000 GHz Res BW 30 kHz		#Video BW 100	kHz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)		Lo
	? Jan 09, 2025 3:42:36 PM	ÐA				Signal Track (Span Zoom)	

NR66_30 M_Band Edge_Low_BPSK_1RB



EYSIGHT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>12 3456</mark> A WWWWW A A A A A A	Center Frequency 1.710000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.29 d		Mkr1	1.710 000 GHz -26.111 dBm	4.00000000 MHz	
7.3						Full Span	
71					RMS	Start Freq 1.708000000 GHz	
2.7					DL1 -13.00 dBm	Stop Freq 1.712000000 GHz	
2.7		1	/			AUTO TUNE	
2.7						CF Step 400.000 kHz	
2.7						Auto Man	
2.7						Freq Offset 0 Hz	
enter 1.710000 GHz tes BW 300 kHz		#Video BW 1.0	MHz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)		Loc
15C	? Jan 09, 2025 3:41:56 PM					Signal Track (Span Zoom)	

NR66_30 M_Band Edge_Low_BPSK_FullRB



Spectrum Analy Channel Power	yzer 1	+						Frequency	(🔹 🛼
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 14 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.7085000 Avg Hold: 5/5 Radio Std: None	00 GHz		equency 000 GHz	Settings
Graph	•		Ref LvI Offset 27				Span 4.0000 M	Hz	
cale/Div 10.0	dB		Ref Value 30.00 d	IBm			CF Step 400.000 Auto Man	٢Hz	
0.00 10.0 20.0 30.0						RMS AVG	Freq Offse 0 Hz	et	
40.0									
Center 1.7085 Res BW 39.00			Video BW 390.00	kHz*	#Sweep 2.00	Span 4 MHz s (1001 pts)			
2 Metrics	v								
Total Chann Total Power	el Power Spectral Density	-28.77 dBm / 1.00							Loca
+ 1		Jan 09, 2025 3:42:14 PM							

NR66_30 M_Extended Band Edge_Low_BPSK_FullRB



KEYSIGHT Input: RF RL Imput: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (F Trig: Free Run	RMS <mark>123456</mark> A WW WW W A A A A A A A	Center Frequency 1.780000000 GHz Span	Setting
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.29 d			80 000 GHz 30.639 dBm	4.00000000 MHz Swept Span Zero Span	
7.3	m					Full Span	
2.71						Start Freq 1.778000000 GHz	
12.7					DL1 -13.00 dBm	Stop Freq 1.782000000 GHz	
22.7		1				AUTO TUNE	
42.7						CF Step 400.000 kHz	
52.7			-		RMS	Auto Man	
62.7						Freq Offset 0 Hz	
enter 1.780000 GHz Res BW 30 kHz		#Video BW 100	kHz		Span 4.000 MHz 2.01 s (1001 pts)	X Axis Scale Log Lin	La
1501	2 Jan 09, 2025 3:47:40 PM					Signal Track (Span Zoom)	

NR66_30 M_Band Edge_High_BPSK_1RB



KEYSIGHT Input: RF RL Image: Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A WW WW W A A A A A A	Center Frequency 1.780000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.29 d		Mkr1	1.780 000 GHz -24.318 dBm	4.00000000 MHz	
7.3						Full Span	
2.71						Start Freq 1.778000000 GHz	
2.7					DL1 -13.00 dBm	Stop Freq 1.782000000 GHz	
2.7					RMS	AUTO TUNE	
42.7						400.000 kHz Auto Man	
52.7						Freq Offset 0 Hz	
enter 1.780000 GHz Res BW 300 kHz		#Video BW 1.0	MHz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)		Loc
- n C -	2 Jan 09, 2025 3:47:00 PM					Signal Track (Span Zoom)	

NR66_30 M_Band Edge_High_BPSK_FullRB



KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 14 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq. 1.7815000 Avg Hold: 5/5 Radio Std: None	000 GHz	Center Fr 1.781500 Span	requency 0000 GHz	Settings
Graph	*		Ref LvI Offset 27				4.0000 N	٨Hz	
cale/Div 10.0	dB		Ref Value 30.00	dBm			CF Step 400.000 Auto		
							Man Freq Offs 0 Hz		
0.0						RMS AVG			
50.0 50.0 enter 1.78150	00 GHz		Video BW 390.0	0 kHz*		Span 4 MHz			
es BW 39.000 Metrics) kHz T				#Sweep 2.0	0 s (1001 pts)			
Total Chann	el Power	-26.40 dBm / 1.0							
	er Power Spectral Densit								Loca
15		Jan 09, 2025 3:47:18 PM	\frown			$\mathbb{H}\mathbb{X}$			

NR66_30 M_Extended Band Edge_High_BPSK_FullRB



KEYSIGHT Input: RF RL Imput: RF Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: P Trig: Free Ru	ower (RMS <mark>123456</mark> A WWWWW A A A A A A	Center Frequency 1.710000000 GHz Span	Settings
Spectrum cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.29 d		Mkr1	1.710 000 GHz -28.552 dBm	4.00000000 MHz Swept Span Zero Span	
7.3			M			Full Span Start Freg	
2.71					DL1 -13.00 dBm	1.708000000 GHz Stop Freq 1.712000000 GHz	
2.7		1				AUTO TUNE	
2.7	and the second second				RMS	CF Step 400.000 kHz Auto	
2.7						Man Freq Offset 0 Hz	
enter 1.710000 GHz Res BW 30 kHz		#Video BW 100	kHz	#Sw	Span 4.000 MHz sep ~2.01 s (1001 pts)		Lor
1 つ つ 1 ?	Jan 09, 2025 3:49:49 PM	€A		.:		Signal Track (Span Zoom)	

NR66_40 M_Band Edge_Low_BPSK_1RB



EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	ver (RMS <mark>12 3456</mark> A WW WW W A A A A A A A	Center Frequency 1.710000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.29 d		Mkr1	1.709 996 GHz -23.282 dBm	4.00000000 MHz	
7.3						Full Span	
.71					RMS	Start Freq 1.708000000 GHz	
2.7			\square		DL1 -13.00 dBm	Stop Freq 1.712000000 GHz	
2.7		· · · · · · · · · · · · · · · · · · ·				AUTO TUNE	
2.7						CF Step 400.000 kHz	
2.7						Auto Man	
2.7						Freq Offset 0 Hz	
enter 1.710000 GHz Res BW 430 kHz		#Video BW 1.3	MHz	#Swee	Span 4.000 MHz p ~2.01 s (1001 pts)		Loc
1761	? Jan 09, 2025 3:49:08 PM					Signal Track	

NR66_40 M_Band Edge_Low_BPSK_FullRB



Spectrum Analy Channel Power		+				1	‡	Frequency	- T 😤
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 14 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.7085000 Avg[Hold: 5/5 Radio Std: None	00 GHz	Center Frequ 1.70850000		Settings
Graph	•		Ref LvI Offset 27				Span 4.0000 MHz		
cale/Div 10.0) dB		Ref Value 30.00 c	IBm			CF Step 400.000 kHz	z	
							Man Freq Offset		
20.0						RMS AVG	0 Hz		
30.0 40.0									
enter 1.7085 es BW 39.00			Video BW 390.00) kHz*	#Sweep 2.00	Span 4 MHz s (1001 pts)			
Metrics	T								
Total Chann	el Power	-29.56 dBm / 1.00) MHz						
Total Power	Spectral Density	y -89.56 dE	8m/Hz						Loca
15	2	Jan 09, 2025 3:49:27 PM							

NR66_40 M_Extended Band Edge_Low_BPSK_FullRB



KEYSIGHT Input: RF RL Imput: RF Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	ver (RMS <mark>1</mark> 2345) A WW WW V A A A A A A	1.76000000 GHZ	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.29 d		Mkr1	1.780 000 GH -28.961 dBn	4.0000000 MHz	
7.3	M					Full Span	
29						Start Freq 1.778000000 GHz	
2.7					DL1 -13.00 dBr	Stop Freq 1.782000000 GHz	
27		1				AUTO TUNE	
2.7						CF Step 400.000 kHz	
52.7			James		RMS	Auto Man	
2.7						Freq Offset 0 Hz	
enter 1.780000 GHz Res BW 30 kHz		#Video BW 100	kHz	#Swee	Span 4.000 MH p ~2.01 s (1001 pts		Loc
- n n	Jan 09, 2025 3:55:00 PM	\square				Signal Track (Span Zoom)	

NR66_40 M_Band Edge_High_BPSK_1RB



KEYSIGHT Input: RF RL Image: Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 14 dB Preamp: Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>12 3 4 5 6</mark> A WWWWW A A A A A A A	Center Frequency 1.780000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.29 d		Mkr1	1.780 004 GHz -22.016 dBm	4.00000000 MHz	
7.3						Full Span	
29						Start Freq 1.778000000 GHz	
2.7					DL1 -13.00 dBm	Stop Freq 1.782000000 GHz	
2.7					RMS	AUTO TUNE	
2.7						CF Step 400.000 kHz	
2.7						Auto Man	
52.7						Freq Offset 0 Hz	
enter 1.780000 GHz Res BW 430 kHz		#Video BW 1.3	MHz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)		Loc
1 ° C 1	? Jan 09, 2025 3:54:20 PM	\Box				Signal Track (Span Zoom)	1

NR66_40 M_Band Edge_High_BPSK_FullRB



Spectrum Anal Channel Power	yzer 1	+					‡	Frequency	· · · 2.	
EYSIGHT ⊥ +→ ₪	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 14 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.7815000 Avg Hold: 5/5 Radio Std: None	00 GHz	Center Frequence 1.781500000 GH		Settings	
Graph			Ref LvI Offset 27.29 dB				Span 4.0000 MHz			
cale/Div 10.0) dB		Ref Value 30.00	dBm			CF Step 400.000 kHz	2		
0.0							Auto Man			
0.0							Freq Offset 0 Hz			
0.0						RMS AVG				
enter 1.7815 es BW 39.00			Video BW 390.0	0 kHz*	#Sweep 2.00	Span 4 MHz s (1001 pts)				
Metrics										
Total Chann	nel Power	-26.37 dBm / 1.0	0 MHz							
Total Power	Spectral Density	y -86.37 d	Bm/Hz						Loca	
15	2	Jan 09, 2025 3:54:37 PM	\square							

NR66_40 M_Extended Band Edge_High_BPSK_FullRB



12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2501-FC048-P