Log Lin



### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 663.000000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 662.996 MHz -23.624 dBm 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 4.00000000 MHz Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 661.000000 MHz Stop Freq 665.000000 MHz DL1-13.00 dB AUTO TUNE 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Center 663.000 MHz #Res BW 100 kHz Span 4.000 MHz #Sweep ~1.01 s (1001 pts)

#Video BW 300 kHz

### 10 M\_Band Edge\_Low\_BPSK\_FullRB

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10 M\_Extended Band Edge\_Low\_BPSK\_FullRB

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO. Best Close Gate: Off IF Gain: Low Sig Track. Off Pwg Type. Power (RMS 1 2 3 4 5 6 Trig. Free Run A WWWWW A A A A A A A KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 698.050000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 698.021 1 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 100.000000 kHz -36.161 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 698.000000 MHz Stop Freq 698.100000 MHz DL1-13.00 dB AUTO TUNE <u>ا 1</u> Auto Man Freq Offset 0 Hz Local X Axis Scale Start 698.00000 MHz #Res BW 30 kHz Stop 698.10000 MHz #Sweep 1.00 s (1001 pts) #Video BW 100 kHz Log Lin

### 10 M\_Band Edge\_High\_BPSK\_1RB(1)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency Settings Align: Auto 699.050000 MHz AAAAAA ĻΧI Mkr1 698.101 9 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 1.90000000 MHz -32.919 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 698.100000 MHz Stop Freq 700.000000 MHz DL1-13.00 dB AUTO TUNE 190.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 698.1000 MHz #Res BW 100 kHz Stop 700.0000 MHz #Sweep 1.00 s (1001 pts) #Video BW 300 kHz Log Lin

## 10 M\_Band Edge\_High\_BPSK\_1RB(2)

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#### 10 M\_Band Edge\_High\_BPSK\_FullRB ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 698.000000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 698.004 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 4.00000000 MHz -22.948 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 696.000000 MHz Stop Freq 700.000000 MHz DL1-13.00 dB AUTO TUNE 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Center 698.000 MHz #Res BW 100 kHz Span 4.000 MHz #Sweep ~1.01 s (1001 pts) #Video BW 300 kHz Log Lin

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### 10 M\_Extended Band Edge\_High\_BPSK\_FullRB

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### 15 M\_Band Edge\_Low\_BPSK\_1RB(1)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 661.450000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 662.900 0 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 2.90000000 MHz -34.971 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 660.000000 MHz Stop Freq 662.900000 MHz DL1 -13.00 dB AUTO TUNE 290.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 660.000 MHz #Res BW 100 kHz Stop 662.900 MHz #Sweep ~1.01 s (1001 pts) #Video BW 300 kHz Log Lin

III 🐺

### 15 M\_Band Edge\_Low\_BPSK\_1RB(2)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 663.000000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 663.000 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 4.00000000 MHz -26.072 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 661.000000 MHz Stop Freq 665.000000 MHz DL1 -13.00 dB AUTO TUNE 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Center 663.000 MHz #Res BW 100 kHz Span 4.000 MHz #Sweep ~1.01 s (1001 pts) #Video BW 300 kHz Log Lin

### 15 M\_Band Edge\_Low\_BPSK\_FullRB

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15 M\_Extended Band Edge\_Low\_BPSK\_FullRB

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO. Best Close Gate: Off IF Gain: Low Sig Track. Off Pwg Type. Power (RMS 1 2 3 4 5 6 Trig. Free Run A WWWWW A A A A A A A KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 698.050000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 698.001 0 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 100.000000 kHz -37.215 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 698.000000 MHz Stop Freq 698.100000 MHz DL1 -13.00 dB AUTO TUNE **♦**1 -Auto Man Freq Offset 0 Hz Local X Axis Scale Start 698.00000 MHz #Res BW 30 kHz Stop 698.10000 MHz #Sweep 1.00 s (1001 pts) #Video BW 100 kHz Log Lin

### 15 M\_Band Edge\_High\_BPSK\_1RB(1)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency Settings Align: Auto 699.050000 MHz AAAAAA ĻΧI Mkr1 698.100 0 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 1.90000000 MHz -36.761 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 698.100000 MHz Stop Freq 700.000000 MHz DL1 -13.00 dB AUTO TUNE 190.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 698.1000 MHz #Res BW 100 kHz Stop 700.0000 MHz #Sweep 1.00 s (1001 pts) #Video BW 300 kHz Log Lin

## 15 M\_Band Edge\_High\_BPSK\_1RB(2)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 698.000000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 699.756 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 4.00000000 MHz -29.235 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 696.000000 MHz Stop Freq 700.000000 MHz DL1 -13.00 dB AUTO TUNE **↓1** . RMS 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Center 698.000 MHz #Res BW 100 kHz Span 4.000 MHz #Sweep ~1.01 s (1001 pts) #Video BW 300 kHz Log Lin

## 15 M\_Band Edge\_High\_BPSK\_FullRB

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### 15 M\_Extended Band Edge\_High\_BPSK\_FullRB

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO. Best Close Gate: Off IF Gain: Low Sig Track. Off A A A A A A A KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency Settings Align: Auto 662.950000 MHz AAAAAA ĻΧI Mkr1 663.000 0 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 100.000000 kHz -40.811 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 662.900000 MHz Stop Freq 663.000000 MHz DL1-13.00 dB AUTO TUNE Auto Man Freq Offset 0 Hz Local X Axis Scale Start 662.90000 MHz #Res BW 30 kHz Stop 663.00000 MHz #Sweep 1.00 s (1001 pts) #Video BW 100 kHz Log Lin

### 20 M\_Band Edge\_Low\_BPSK\_1RB(1)

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Auto Man Freq Offset 0 Hz

X Axis Scale

Log Lin

Stop 662.900 MHz #Sweep ~1.01 s (1001 pts)

...

Local



Start 660.000 MHz #Res BW 100 kHz

#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 661.450000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 662.900 0 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 2.90000000 MHz -40.750 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 660.000000 MHz Stop Freq 662.900000 MHz DL1 -13.00 dB AUTO TUNE 290.000 kHz

#Video BW 300 kHz

### 20 M\_Band Edge\_Low\_BPSK\_1RB(2)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 663.000000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 662.904 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 4.00000000 MHz -24.319 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 661.000000 MHz Stop Freq 665.000000 MHz DL1 -13.00 dB AUTO TUNE 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Center 663.000 MHz #Res BW 100 kHz Span 4.000 MHz #Sweep ~1.01 s (1001 pts) #Video BW 300 kHz Log Lin

### 20 M\_Band Edge\_Low\_BPSK\_FullRB

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20 M\_Extended Band Edge\_Low\_BPSK\_FullRB

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### 20 M\_Band Edge\_High\_BPSK\_1RB(1)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig. Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency Settings Align: Auto 699.050000 MHz AAAAAA ĻΧI Mkr1 698.101 9 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 1.90000000 MHz -39.589 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 698.100000 MHz Stop Freq 700.000000 MHz DL1 -13.00 dB AUTO TUNE 190.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Start 698.1000 MHz #Res BW 100 kHz Stop 700.0000 MHz #Sweep 1.00 s (1001 pts) #Video BW 300 kHz Log Lin

## 20 M\_Band Edge\_High\_BPSK\_1RB(2)

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#### ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF #Atten: 16 dB Preamp: Off Center Frequency 698.000000 MHz Settings Align: Auto AAAAAA ĻΧI Mkr1 699.364 MHz 1 Spectrum Ref LvI Offset 26.83 dB Ref Level 26.83 dBm 4.00000000 MHz -25.926 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 696.000000 MHz Stop Freq 700.000000 MHz DL1 -13.00 dB **♦**1 AUTO TUNE 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Center 698.000 MHz #Res BW 100 kHz Span 4.000 MHz #Sweep ~1.01 s (1001 pts) #Video BW 300 kHz Log Lin

## 20 M\_Band Edge\_High\_BPSK\_FullRB

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20 M\_Extended Band Edge\_High\_BPSK\_FullRB

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# 10. ANNEX A\_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2407-FC033-P

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