

### Upper Band Edge Plot (20 M BW Ch.167800 BPSK\_RB 1\_Offset 99) Spectrum Analyzer 1 Swept SA Ö Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off PNO: Best Wide Gate: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run KEYSIGHT Input RF Center Frequency Settings RL Align: Auto A <del>WW WW</del> A Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 849.000000 MHz AAAAAA ĻΧΙ Mkr1 849.000 MHz 1 Spectrum 4.00000000 MHz Ref LvI Offset 26.86 dB Scale/Div 10 dB Ref Level 26.86 dBm -41.142 dBm Swept Span Zero Span Full Span Start Freq 847.000000 MHz Stop Freq DL1 -13.00 dBr 851.000000 MHz **AUTO TUNE** CF Step 400.000 kHz Auto Man Freq Offset 0 Hz Local X Axis Scale Center 849.000 MHz #Video BW 1.0 MHz Span 4.000 MHz Log Lin #Sweep ~1.01 s (1001 pts) #Res BW 30 kHz

**F** 

? May 21, 2024 10:45:47 AM

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**F** 

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Upper Band Edge Plot (20 M BW Ch.167800 BPSK\_RB 100\_Offset 0)

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#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL Align: Auto AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz AAAAAA LXI Mkr1 3.817 6 GHz 1 Spectrum 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -73.819 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 3.817 6 GHz -73.82 dBm Freq Offset 824.6 MHz -2.598 dBm N 0 Hz Local X Axis Scale Log Lin X

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### Conducted Spurious Plot (165300ch\_5 MHz\_BPSK\_RB 1\_0)

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X



#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI 1 Spectrum Mkr1 6.676 0 GHz 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -73.469 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 1 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 6.676 0 GHz -73.47 dBm Freq Offset 834.6 MHz N -2.841 dBm 0 Hz Local X Axis Scale Log Lin

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## Conducted Spurious Plot (167300ch\_5 MHz\_BPSK\_RB 1\_0)

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X



#### Conducted Spurious Plot (169300ch\_5 MHz\_BPSK\_RB 1\_0) Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI 1 Spectrum Mkr1 6.755 8 GHz 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -72.481 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 6.755 8 GHz 844.5 MHz -72.48 dBm Freq Offset -2.657 dBm N 0 Hz Local X Axis Scale Log Lin

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#### Spectrum Analyzer 1 Swept SA Ö Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI Mkr1 6.596 7 GHz 1 Spectrum 9.97000000 GHz -74.068 dBm Scale/Div 10 dB Ref Level 6.00 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq **1** 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 6.596 7 GHz -74.07 dBm Freq Offset 824.6 MHz N -2.602 dBm 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:29:33 AM

Conducted Spurious Plot (165800ch\_10 MHz\_BPSK\_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL IF Gain: Low Sig Track: Off AWWWW Freq Ref: Int (S) NFE: Adaptive 5.015000000 GHz Align: Auto AAAAAA LXI Mkr1 9.657 0 GHz 1 Spectrum 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -73.955 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Width Function Value Mode Trace Scale Function 9.657 0 GHz -73.95 dBm Freq Offset 832.1 MHz -2.068 dBm N 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:32:11 AM

### Conducted Spurious Plot (167300ch\_10 MHz\_BPSK\_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI Mkr1 3.781 7 GHz 1 Spectrum 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -74.044 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 75 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 3.781 7 GHz -74.04 dBm Freq Offset 839.6 MHz -2.324 dBm N 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:33:58 AM

Conducted Spurious Plot (168800ch\_10 MHz\_BPSK\_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI Mkr1 8.009 5 GHz 1 Spectrum 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -74.462 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 8.009 5 GHz -74.46 dBm Freq Offset 824.6 MHz -2.515 dBm N 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:35:43 AM

Conducted Spurious (166300ch\_15 MHz\_BPSK\_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI Mkr1 3.764 3 GHz 1 Spectrum 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -73.954 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 3.764 3 GHz -73.95 dBm Freq Offset 829.6 MHz -2.394 dBm N 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:38:18 AM

### Conducted Spurious (167300ch\_15 MHz\_BPSK\_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI Mkr1 6.676 5 GHz 1 Spectrum 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -74.639 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq **7**1 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 6.676 5 GHz -74.64 dBm N Freq Offset 834.6 MHz N -2.430 dBm 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:40:06 AM

### Conducted Spurious (168300ch\_15 MHz\_BPSK\_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI 1 Spectrum Mkr1 6.597 7 GHz 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -72.733 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function -72.73 dBm -2.064 dBm 6.597 7 GHz Freq Offset 824.6 MHz N 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:41:45 AM

### Conducted Spurious (166800ch\_20 MHz\_BPSK\_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA ĻΧΙ Mkr1 4.941 2 GHz 1 Spectrum 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -73.537 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 4.941 2 GHz 827.1 MHz -73.54 dBm Freq Offset -2.624 dBm N 0 Hz Local X Axis Scale Log Lin X ? May 21, 2024 10:44:21 AM

Conducted Spurious (167300ch\_20 MHz\_BPSK \_RB 1\_0)

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#### Spectrum Analyzer 1 Swept SA Ö + Frequency Input Z: 50 Ω Corr CCorr #Atten: 16 dB Preamp: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PNO: Fast Gate: Off KEYSIGHT Input RF Center Frequency Settings RL AWWWW Freq Ref: Int (S) NFE: Adaptive IF Gain: Low Sig Track: Off 5.015000000 GHz Align: Auto AAAAAA LXI 1 Spectrum Mkr1 7.980 6 GHz 9.97000000 GHz Scale/Div 10 dB Ref Level 6.00 dBm -73.689 dBm Swept Span Zero Span Log Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz 84.0 **AUTO TUNE** Stop 10.000 GHz Sweep ~18.7 ms (20001 pts) Start 30 MHz #Video BW 3.0 MHz #Res BW 1.0 MHz CF Step 997.000000 MHz 5 Marker Table Auto Man Function Value Function Width Mode Trace Scale Function 7.980 6 GHz -73.69 dBm Freq Offset 829.6 MHz -2.632 dBm N 0 Hz Local X Axis Scale Log Lin X May 21, 2024 10:46:08 AM

### Conducted Spurious (167800ch\_20 MHz\_BPSK\_RB 1\_0)

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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-FC029-P

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