

May 28, 2024 91:31:08 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 30.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 300.00 kHz Span 30 MHz #Sweep 50.0 ms (1001 pts) #Video BW 1.2000 MHz 2 Metrics Occupied Bandwidth 12.980 MHz Total Power 32.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -395.86 kHz 15.00 MHz 99.00 % -26.00 dB Local

III 🐺

15 M_OBW_Mid_64QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 30.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 300.00 kHz Span 30 MHz #Sweep 50.0 ms (1001 pts) #Video BW 1.2000 MHz 2 Metrics Occupied Bandwidth 13.045 MHz Total Power 30.5 dBm % of OBW Power x dB -397.97 kHz 14.75 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local May 28, 2024 900 1:31:58 PM III 🐺

15 M_OBW_Mid_256QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 390.00 kHz Span 40 MHz #Sweep 50.0 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.994 MHz Total Power 34.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -246.43 kHz 20.11 MHz 99.00 % -26.00 dB Local May 28, 2024 91:43:16 PM III 🐺

20 M_OBW_Mid_BPSK_FullRB

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May 28, 2024 91:44:05 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 390.00 kHz Span 40 MHz #Sweep 50.0 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.966 MHz Total Power 34.6 dBm % of OBW Power x dB -230.67 kHz 19.98 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local

III 🐺

20 M_OBW_Mid_QPSK_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 390.00 kHz Span 40 MHz #Sweep 50.0 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 18.043 MHz Total Power 33.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -252.11 kHz 20.18 MHz 99.00 % -26.00 dB Local May 28, 2024 90 1:44:54 PM III 🐺

20 M_OBW_Mid_16QAM_FullRB

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145:43 PM

20 M_OBW_Mid_64QAM_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 390.00 kHz Span 40 MHz #Sweep 50.0 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.947 MHz Total Power 32.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -252.13 kHz 20.07 MHz 99.00 % -26.00 dB Local

III 🐺

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May 28, 2024 91:46:33 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 40.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 390.00 kHz Span 40 MHz #Sweep 50.0 ms (1001 pts) #Video BW 1.6000 MHz 2 Metrics Occupied Bandwidth 17.914 MHz Total Power 30.4 dBm % of OBW Power x dB -215.15 kHz 19.72 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local

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20 M_OBW_Mid_256QAM_FullRB

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May 28, 2024 9:04:25 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 510.00 kHz Span 50 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 23.061 MHz Total Power 34.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -234.59 kHz 25.34 MHz 99.00 % -26.00 dB Local

III 🐺

25 M_OBW_Mid_BPSK_FullRB

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May 28, 2024 9:05:14 PM

25 M_OBW_Mid_QPSK_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 510.00 kHz Span 50 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 22.984 MHz 34.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -237.76 kHz 25.19 MHz 99.00 % -26.00 dB Local

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May 28, 2024 9:06:04 PM

25 M_OBW_Mid_16QAM_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 510.00 kHz Span 50 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 23.071 MHz Total Power 33.5 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -287.11 kHz 25.38 MHz 99.00 % -26.00 dB Local

III 🐺

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 510.00 kHz Span 50 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 22.978 MHz Total Power 32.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -243.73 kHz 25.20 MHz 99.00 % -26.00 dB Local May 28, 2024 9:06:52 PM III 🐺

25 M_OBW_Mid_64QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 50.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 5.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 510.00 kHz Span 50 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.0000 MHz 2 Metrics Occupied Bandwidth 22.930 MHz Total Power 30.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -264.68 kHz 25.15 MHz 99.00 % -26.00 dB Local 1 5 C 7 Ray 28, 2024 9:07:42 PM III 🐺

25 M_OBW_Mid_256QAM_FullRB

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May 28, 2024 (2:49:34 PM)

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 620.00 kHz Span 60 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 27.002 MHz Total Power 34.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -629.38 kHz 29.44 MHz 99.00 % -26.00 dB Local

III 🐺

30 M_OBW_Mid_BPSK_FullRB

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30 M_OBW_Mid_QPSK_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 620.00 kHz Span 60 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 27.023 MHz Total Power 34.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -638.98 kHz 29.51 MHz 99.00 % -26.00 dB Local

III 🐺

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 620.00 kHz Span 60 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 27.075 MHz Total Power 33.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -639.92 kHz 29.73 MHz 99.00 % -26.00 dB Local May 28, 2024 Substitute 12 PM III 🐺

30 M_OBW_Mid_16QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 620.00 kHz Span 60 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 26.962 MHz 32.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -649.73 kHz 29.39 MHz 99.00 % -26.00 dB Local May 28, 2024 2:52:01 PM III 🐺

30 M_OBW_Mid_64QAM_FullRB

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1 5 C 7 Ray 28, 2024 9:52:51 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 60.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 620.00 kHz Span 60 MHz #Sweep 50.0 ms (1001 pts) #Video BW 2.4000 MHz 2 Metrics Occupied Bandwidth 26.953 MHz Total Power 30.5 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -640.54 kHz 29.47 MHz 99.00 % -26.00 dB Local

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30 M_OBW_Mid_256QAM_FullRB

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Local



Occupied Bandwidth 35.957 MHz

May 28, 2024 S:03:51 PM

-1.2388 MHz 38.80 MHz

Transmit Freq Error x dB Bandwidth

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 820.00 kHz Span 80 MHz #Sweep 50.0 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics

Total Power

% of OBW Power x dB

35.1 dBm

99.00 % -26.00 dB

III 🐺

40 M_OBW_Mid_BPSK_FullRB

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May 28, 2024 Si.04:42 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 820.00 kHz Span 80 MHz #Sweep 50.0 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 35.995 MHz 34.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.2256 MHz 38.79 MHz 99.00 % -26.00 dB Local

III 🐺

40 M_OBW_Mid_QPSK_FullRB

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May 28, 2024 Si:05:31 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 820.00 kHz Span 80 MHz #Sweep 50.0 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 36.065 MHz 33.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.2688 MHz 39.09 MHz 99.00 % -26.00 dB Local

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40 M_OBW_Mid_16QAM_FullRB

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May 28, 2024 Si.06:19 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 820.00 kHz Span 80 MHz #Sweep 50.0 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 35.986 MHz Total Power 32.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.2228 MHz 38.70 MHz 99.00 % -26.00 dB Local

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40 M_OBW_Mid_64QAM_FullRB

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May 28, 2024 Si:07:09 PM

40 M_OBW_Mid_256QAM_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 80.000 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 820.00 kHz Span 80 MHz #Sweep 50.0 ms (1001 pts) #Video BW 3.0000 MHz 2 Metrics Occupied Bandwidth 35.893 MHz 30.7 dBm Total Power % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.2608 MHz 38.48 MHz 99.00 % -26.00 dB Local

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May 28, 2024 S:17:58 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 100.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.0000 MHz Span 100 MHz #Sweep 50.0 ms (1001 pts) #Video BW 4.0000 MHz 2 Metrics Occupied Bandwidth 46.007 MHz Total Power 35.2 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.1024 MHz 50.43 MHz 99.00 % -26.00 dB Local

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50 M_OBW_Mid_BPSK_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 100.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.0000 MHz Span 100 MHz #Sweep 50.0 ms (1001 pts) #Video BW 4.0000 MHz 2 Metrics Occupied Bandwidth 45.964 MHz Total Power 34.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.0889 MHz 50.57 MHz 99.00 % -26.00 dB Local May 28, 2024 S:18:49 PM III 🐺

50 M_OBW_Mid_QPSK_FullRB

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May 28, 2024 S:19:37 PM

50 M_OBW_Mid_16QAM_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 100.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.0000 MHz Span 100 MHz #Sweep 50.0 ms (1001 pts) #Video BW 4.0000 MHz 2 Metrics Occupied Bandwidth 46.026 MHz Total Power 33.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.1026 MHz 50.33 MHz 99.00 % -26.00 dB Local

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May 28, 2024 Sign 20:25 PM

50 M_OBW_Mid_64QAM_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 100.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.0000 MHz Span 100 MHz #Sweep 50.0 ms (1001 pts) #Video BW 4.0000 MHz 2 Metrics Occupied Bandwidth 46.253 MHz Total Power 32.9 dBm % of OBW Power x dB -1.0777 MHz 51.16 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local

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May 28, 2024 Sign 15 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 100.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 10.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.0000 MHz Span 100 MHz #Sweep 50.0 ms (1001 pts) #Video BW 4.0000 MHz 2 Metrics Occupied Bandwidth 45.874 MHz Total Power 30.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.0991 MHz 49.78 MHz 99.00 % -26.00 dB Local

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50 M_OBW_Mid_256QAM_FullRB

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May 28, 2024 Sight 1:43 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 120.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 12.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.2000 MHz Span 120 MHz #Sweep 50.0 ms (1001 pts) #Video BW 5.0000 MHz 2 Metrics Occupied Bandwidth 58.331 MHz Total Power 35.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -233.76 kHz 64.95 MHz 99.00 % -26.00 dB Local

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60 M_OBW_Mid_BPSK_FullRB

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May 28, 2024 S.42:30 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 120.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 12.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.2000 MHz Span 120 MHz #Sweep 50.0 ms (1001 pts) #Video BW 5.0000 MHz 2 Metrics Occupied Bandwidth 58.252 MHz Total Power 34.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -247.38 kHz 65.88 MHz 99.00 % -26.00 dB Local

III 🐺

60 M_OBW_Mid_QPSK_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 120.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 12.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.2000 MHz Span 120 MHz #Sweep 50.0 ms (1001 pts) #Video BW 5.0000 MHz 2 Metrics Occupied Bandwidth 58.344 MHz Total Power 33.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -269.64 kHz 68.52 MHz 99.00 % -26.00 dB Local May 28, 2024 S.43:17 PM III 🐺

60 M_OBW_Mid_16QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 120.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 12.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.2000 MHz Span 120 MHz #Sweep 50.0 ms (1001 pts) #Video BW 5.0000 MHz 2 Metrics Occupied Bandwidth 58.222 MHz Total Power 33.0 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -188.02 kHz 64.22 MHz 99.00 % -26.00 dB Local

III 🐺

60 M_OBW_Mid_64QAM_FullRB

F-TP22-03 (Rev. 06) Page 170 of 420

Local



pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 120.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 12.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.2000 MHz Span 120 MHz #Sweep 50.0 ms (1001 pts) #Video BW 5.0000 MHz 2 Metrics Occupied Bandwidth 58.177 MHz

Total Power

-303.67 kHz 64.60 MHz

Transmit Freq Error x dB Bandwidth

May 28, 2024 Signature of the state of the s

% of OBW Power x dB

30.9 dBm

99.00 % -26.00 dB

III 🐺

60 M_OBW_Mid_256QAM_FullRB

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May 28, 2024 Si.54:57 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 140.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 14.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.5000 MHz Span 140 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 64.734 MHz Total Power 35.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.9076 MHz 72.08 MHz 99.00 % -26.00 dB Local

III 🐺

70 M_OBW_Mid_BPSK_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 140.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 14.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.5000 MHz Span 140 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 64.698 MHz Total Power 35.0 dBm % of OBW Power x dB -1.8571 MHz 72.50 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local May 28, 2024 Si.55:45 PM III 🐺

70 M_OBW_Mid_QPSK_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 140.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 14.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.5000 MHz Span 140 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 64.831 MHz Total Power 33.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -2.0231 MHz 75.99 MHz 99.00 % -26.00 dB Local May 28, 2024 Si.56:32 PM III 🐺

70 M_OBW_Mid_16QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 140.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 14.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.5000 MHz Span 140 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 64.796 MHz Total Power 33.1 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -1.9232 MHz 72.76 MHz 99.00 % -26.00 dB Local May 28, 2024 Si.57:18 PM III 🐺

70 M_OBW_Mid_64QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 140.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 14.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.5000 MHz Span 140 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 64.372 MHz Total Power 31.0 dBm % of OBW Power x dB -1.8977 MHz 71.13 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local May 28, 2024 Si.58:07 PM III 🐺

70 M_OBW_Mid_256QAM_FullRB

F-TP22-03 (Rev. 06) Page 176 of 420



ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Trig: Free Run Gate: Off #IF Gain: Low Atten: 20 dB Preamp: Off 2.592990000 GHz 160.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm CF Step

pectrum Analyzer 1 ccupied BW Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive KEYSIGHT Input RF Settings RL Coupling: CAlign: Auto 1 Graph Scale/Div 10.0 dB 16.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.6000 MHz Span 160 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 77.476 MHz Total Power 35.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -433.72 kHz 85.15 MHz 99.00 % -26.00 dB Local May 28, 2024 900 4:08:17 PM III 🐺

80 M_OBW_Mid_BPSK_FullRB

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May 28, 2024 9:09:06 PM

80 M_OBW_Mid_QPSK_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 160.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 16.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.6000 MHz Span 160 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 77.525 MHz Total Power 35.0 dBm % of OBW Power x dB -428.17 kHz 85.38 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local

III 🐺

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May 28, 2024 9:52 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 160.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 16.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.6000 MHz Span 160 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 77.812 MHz Total Power 33.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -250.58 kHz 84.90 MHz 99.00 % -26.00 dB Local

III 🐺

80 M_OBW_Mid_16QAM_FullRB

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May 28, 2024 9:10:38 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 160.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 16.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.6000 MHz Span 160 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 77.789 MHz Total Power 33.1 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -508.04 kHz 85.26 MHz 99.00 % -26.00 dB Local

III 🐺

80 M_OBW_Mid_64QAM_FullRB

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May 28, 2024 900 4:11:26 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 160.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 16.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.6000 MHz Span 160 MHz #Sweep 50.0 ms (1001 pts) #Video BW 6.0000 MHz 2 Metrics Occupied Bandwidth 77.818 MHz Total Power 31.1 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -170.32 kHz 85.28 MHz 99.00 % -26.00 dB Local

III 🐺

80 M_OBW_Mid_256QAM_FullRB

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May 28, 2024 99 4:21:40 PM

90 M_OBW_Mid_BPSK_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 180.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 18.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.8000 MHz Span 180 MHz #Sweep 50.0 ms (1001 pts) Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 87.288 MHz Total Power 35.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -514.40 kHz 94.82 MHz 99.00 % -26.00 dB Local

III 🐺

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 180.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 18.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.8000 MHz Span 180 MHz #Sweep 50.0 ms (1001 pts) Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 87.223 MHz Total Power 35.1 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -579.38 kHz 95.89 MHz 99.00 % -26.00 dB Local 1 5 C 7 Ray 28, 2024 9 4:22:28 PM III 🐺

90 M_OBW_Mid_QPSK_FullRB

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May 28, 2024 99 4:23:14 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 180.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 18.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.8000 MHz Span 180 MHz #Sweep 50.0 ms (1001 pts) Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 87.466 MHz Total Power 33.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -487.76 kHz 96.53 MHz 99.00 % -26.00 dB Local

III 🐺

90 M_OBW_Mid_16QAM_FullRB

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pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 180.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 18.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.8000 MHz Span 180 MHz #Sweep 50.0 ms (1001 pts) Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 87.428 MHz Total Power 33.2 dBm % of OBW Power x dB -393.07 kHz 96.08 MHz Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB Local May 28, 2024 99 4:24:01 PM III 🐺

90 M_OBW_Mid_64QAM_FullRB

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1 5 C 7 Ray 28, 2024 9 4:24:48 PM

90 M_OBW_Mid_256QAM_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 180.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 18.000000 MHz Auto Man Freq Offset 0 Hz Center 2.59299 GHz #Res BW 1.8000 MHz Span 180 MHz #Sweep 50.0 ms (1001 pts) Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 87.077 MHz Total Power 31.1 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -560.22 kHz 93.77 MHz 99.00 % -26.00 dB Local

III 🐺

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100 M_OBW_Mid_BPSK_FullRB



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May 28, 2024 99 4:36:01 PM

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 200.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 20.000000 MHz Auto Man Freq Offset 0 Hz Center 2.5930 GHz #Res BW 2.0000 MHz Span 200 MHz #Sweep 50.0 ms (1001 pts) #Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 96.689 MHz Total Power 35.2 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -697.53 kHz 105.5 MHz 99.00 % -26.00 dB Local

III 🐺

100 M_OBW_Mid_QPSK_FullRB

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May 28, 2024 99 4:36:48 PM

pectrum Analyzer 1 ccupied BW ø Frequency Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Center Freq. 2 592990000 GHz Avg|Hold: 500/500 Radio Std: None Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 200.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 20.000000 MHz Auto Man Freq Offset 0 Hz Center 2.5930 GHz #Res BW 2.0000 MHz Span 200 MHz #Sweep 50.0 ms (1001 pts) #Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 96.773 MHz Total Power 34.1 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -667.43 kHz 104.8 MHz 99.00 % -26.00 dB Local

III 🐺

100 M_OBW_Mid_16QAM_FullRB

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May 28, 2024 (Signature of the state of the

pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 200.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 20.000000 MHz Auto Man Freq Offset 0 Hz Center 2.5930 GHz #Res BW 2.0000 MHz Span 200 MHz #Sweep 50.0 ms (1001 pts) #Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 97.035 MHz Total Power 33.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -830.80 kHz 104.2 MHz 99.00 % -26.00 dB Local

III 🐺

100 M_OBW_Mid_64QAM_FullRB

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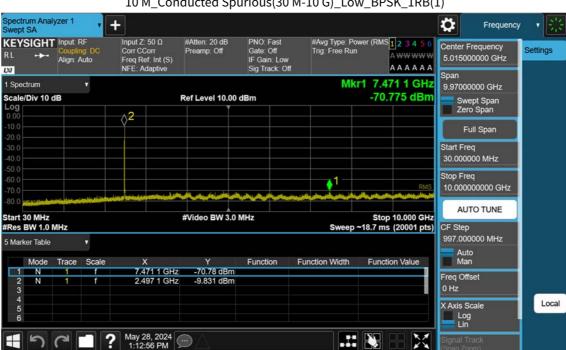
May 28, 2024 99 4:38:22 PM

100 M_OBW_Mid_256QAM_FullRB pectrum Analyzer 1 ccupied BW ø Frequency Center Freq. 2.592990000 GHz Avg|Hold: 500/500 Radio Std: None Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input RF Atten: 20 dB Preamp: Off Settings RL Coupling: CAlign: Auto 2.592990000 GHz 1 Graph 200.00 MHz Ref LvI Offset 27.31 dB Ref Value 40.00 dBm Scale/Div 10.0 dB CF Step 20.000000 MHz Auto Man Freq Offset 0 Hz Center 2.5930 GHz #Res BW 2.0000 MHz Span 200 MHz #Sweep 50.0 ms (1001 pts) #Video BW 8.0000 MHz 2 Metrics Occupied Bandwidth 96.977 MHz Total Power 31.2 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -525.58 kHz 105.0 MHz 99.00 % -26.00 dB Local

III 🐺

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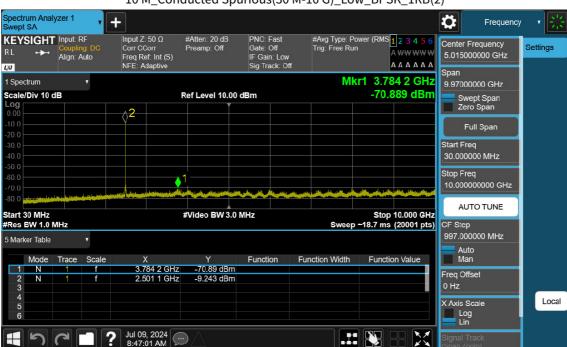




10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(1)

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10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(2)

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10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB

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10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

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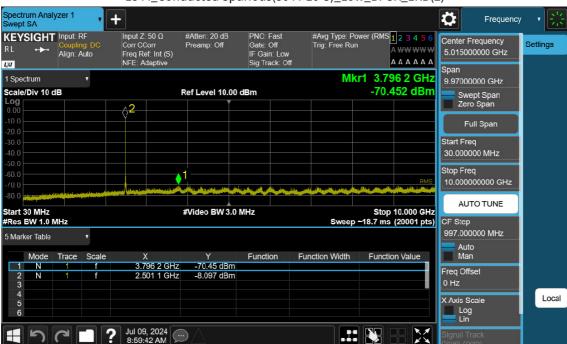




15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(1)

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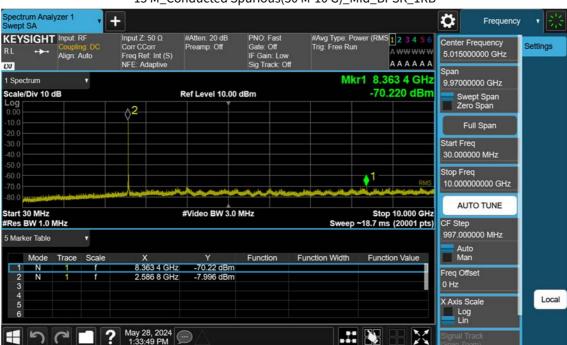




15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(2)

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15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB

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15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

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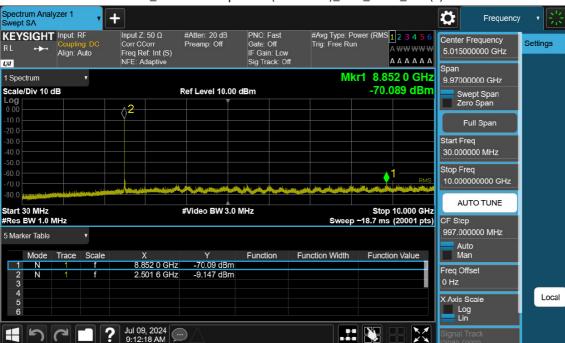




20 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(1)

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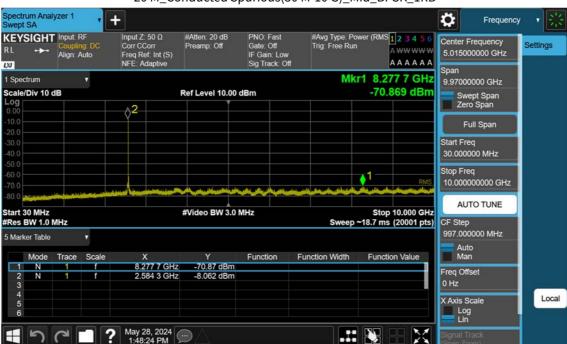




20 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(2)

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20 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB

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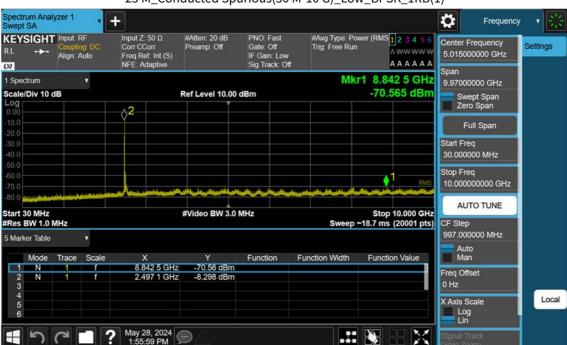




20 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

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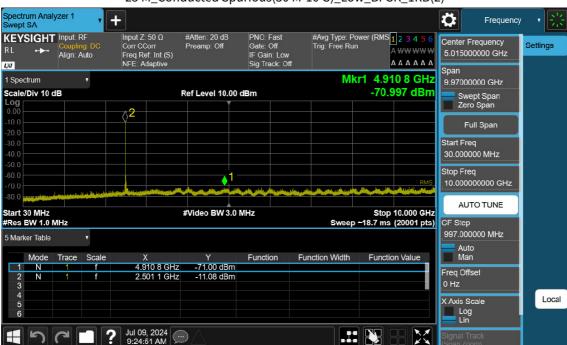




25 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(1)

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25 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB(2)

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25 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB

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