



Band	UNII-2C
Mode	HE40
Frequency	5510 MHz
Ant	2
0RU	9RU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.510000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.51000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.796 MHz Total Power 19.3 dBm Transmit Freq Error -748.07 kHz % of OBW Power 99.00 % x dB Bandwidth 40.05 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.510000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.51000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 35.600 MHz Total Power 20.0 dBm Transmit Freq Error 135.25 kHz % of OBW Power 99.00 % x dB Bandwidth 37.93 MHz x dB -26.00 dB
17RU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.510000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.51000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.654 MHz Total Power 19.5 dBm Transmit Freq Error 772.13 kHz % of OBW Power 99.00 % x dB Bandwidth 39.71 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.510000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.51000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.924 MHz Total Power 19.8 dBm Transmit Freq Error -9.662 kHz % of OBW Power 99.00 % x dB Bandwidth 42.89 MHz x dB -26.00 dB



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Band	UNII-2C
Mode	HE40
Frequency	5590 MHz
Ant	2
0RU	9RU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.590000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.59000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.654 MHz Total Power 20.4 dBm Transmit Freq Error -778.31 kHz % of OBW Power 99.00 % x dB Bandwidth 39.71 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.590000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.59000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 35.870 MHz Total Power 21.2 dBm Transmit Freq Error 160.51 kHz % of OBW Power 99.00 % x dB Bandwidth 38.00 MHz x dB -26.00 dB
17RU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.590000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.59000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.414 MHz Total Power 20.9 dBm Transmit Freq Error 997.79 kHz % of OBW Power 99.00 % x dB Bandwidth 39.67 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.590000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.59000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.947 MHz Total Power 19.5 dBm Transmit Freq Error 5.996 kHz % of OBW Power 99.00 % x dB Bandwidth 42.14 MHz x dB -26.00 dB



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Band	UNII-2C
Mode	HE40
Frequency	5670 MHz
Ant	2
0RU	9RU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.670000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.67000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.770 MHz Total Power 20.5 dBm Transmit Freq Error -690.56 kHz % of OBW Power 99.00 % x dB Bandwidth 39.75 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.670000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.67000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 36.163 MHz Total Power 21.0 dBm Transmit Freq Error 107.50 kHz % of OBW Power 99.00 % x dB Bandwidth 38.11 MHz x dB -26.00 dB
17RU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.670000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.67000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.560 MHz Total Power 20.5 dBm Transmit Freq Error 817.11 kHz % of OBW Power 99.00 % x dB Bandwidth 39.66 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.670000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.67000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.939 MHz Total Power 20.7 dBm Transmit Freq Error -11.291 kHz % of OBW Power 99.00 % x dB Bandwidth 43.87 MHz x dB -26.00 dB



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Band	UNII-2C
Mode	HE80
Frequency	5530 MHz
Ant	2
0RU	18RU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.530000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.53000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 78.112 MHz Total Power 21.0 dBm Transmit Freq Error -1.6176 MHz % of OBW Power 99.00 % x dB Bandwidth 81.12 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.530000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.53000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 74.688 MHz Total Power 21.5 dBm Transmit Freq Error 26.465 kHz % of OBW Power 99.00 % x dB Bandwidth 78.05 MHz x dB -26.00 dB
36RU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.530000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.53000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 77.787 MHz Total Power 21.1 dBm Transmit Freq Error 1.5358 MHz % of OBW Power 99.00 % x dB Bandwidth 81.22 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.530000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.53000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 77.439 MHz Total Power 19.5 dBm Transmit Freq Error -34.427 kHz % of OBW Power 99.00 % x dB Bandwidth 86.04 MHz x dB -26.00 dB

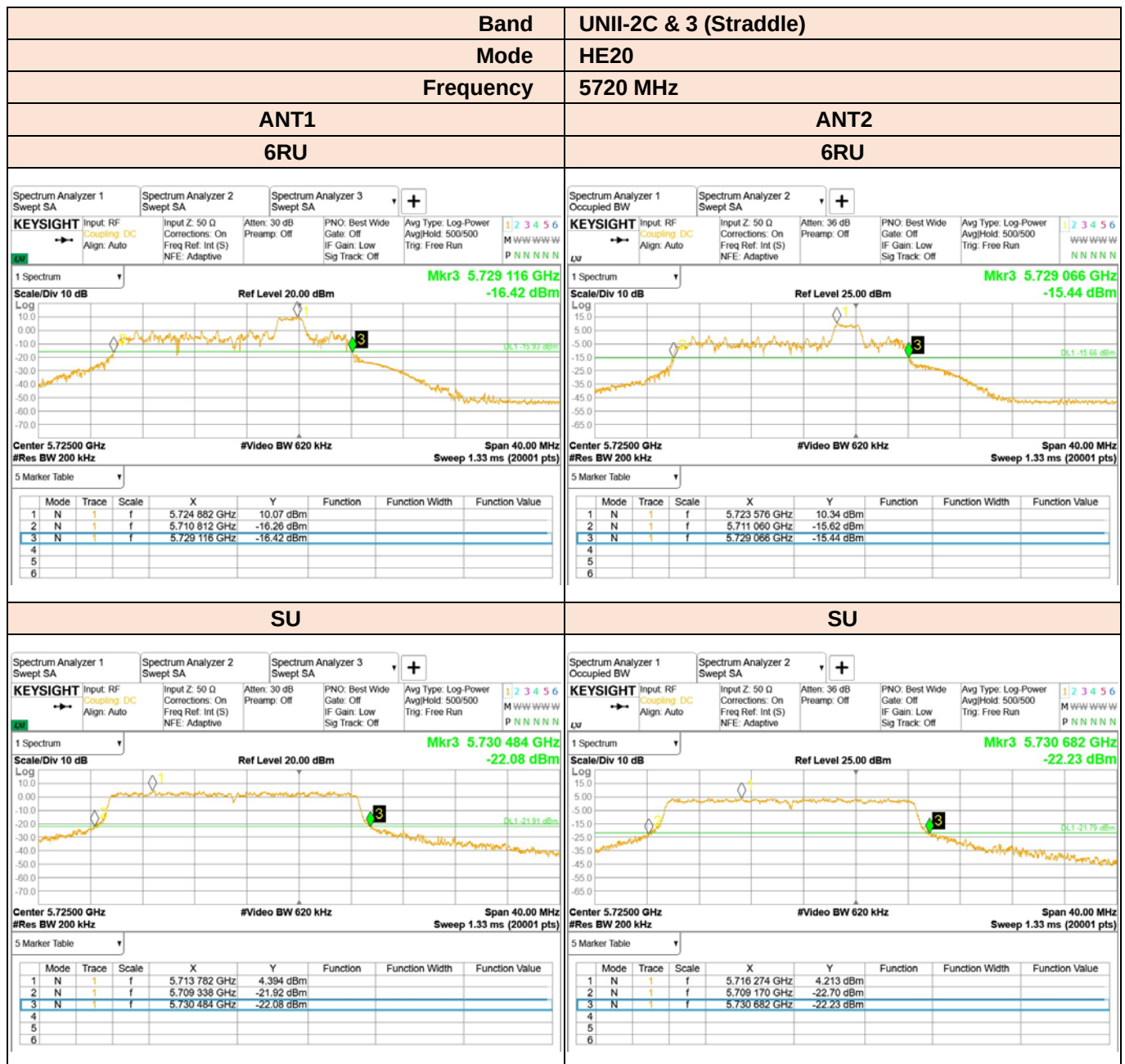


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Band	UNII-2C
Mode	HE80
Frequency	5610 MHz
Ant	2
0RU	18RU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.610000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.61000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 77.789 MHz Total Power 21.0 dBm Transmit Freq Error -1.9952 MHz % of OBW Power 99.00 % x dB Bandwidth 81.20 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.610000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.61000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 74.500 MHz Total Power 21.2 dBm Transmit Freq Error 2.701 kHz % of OBW Power 99.00 % x dB Bandwidth 78.19 MHz x dB -26.00 dB
36RU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.610000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.61000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 77.931 MHz Total Power 21.1 dBm Transmit Freq Error 1.4169 MHz % of OBW Power 99.00 % x dB Bandwidth 80.39 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.610000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 25.00 dBm Center 5.61000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 77.665 MHz Total Power 19.7 dBm Transmit Freq Error 48.132 kHz % of OBW Power 99.00 % x dB Bandwidth 87.25 MHz x dB -26.00 dB

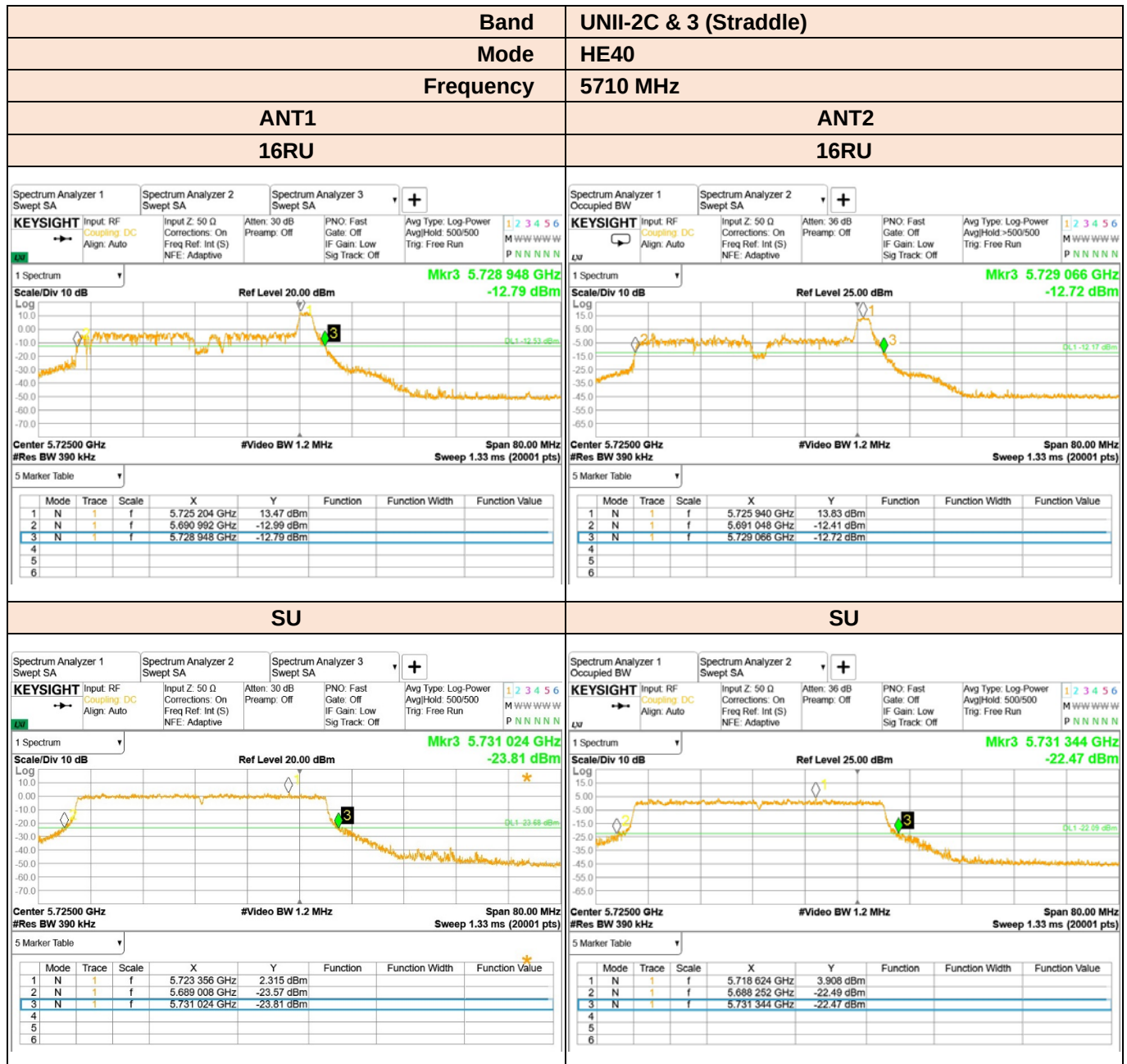


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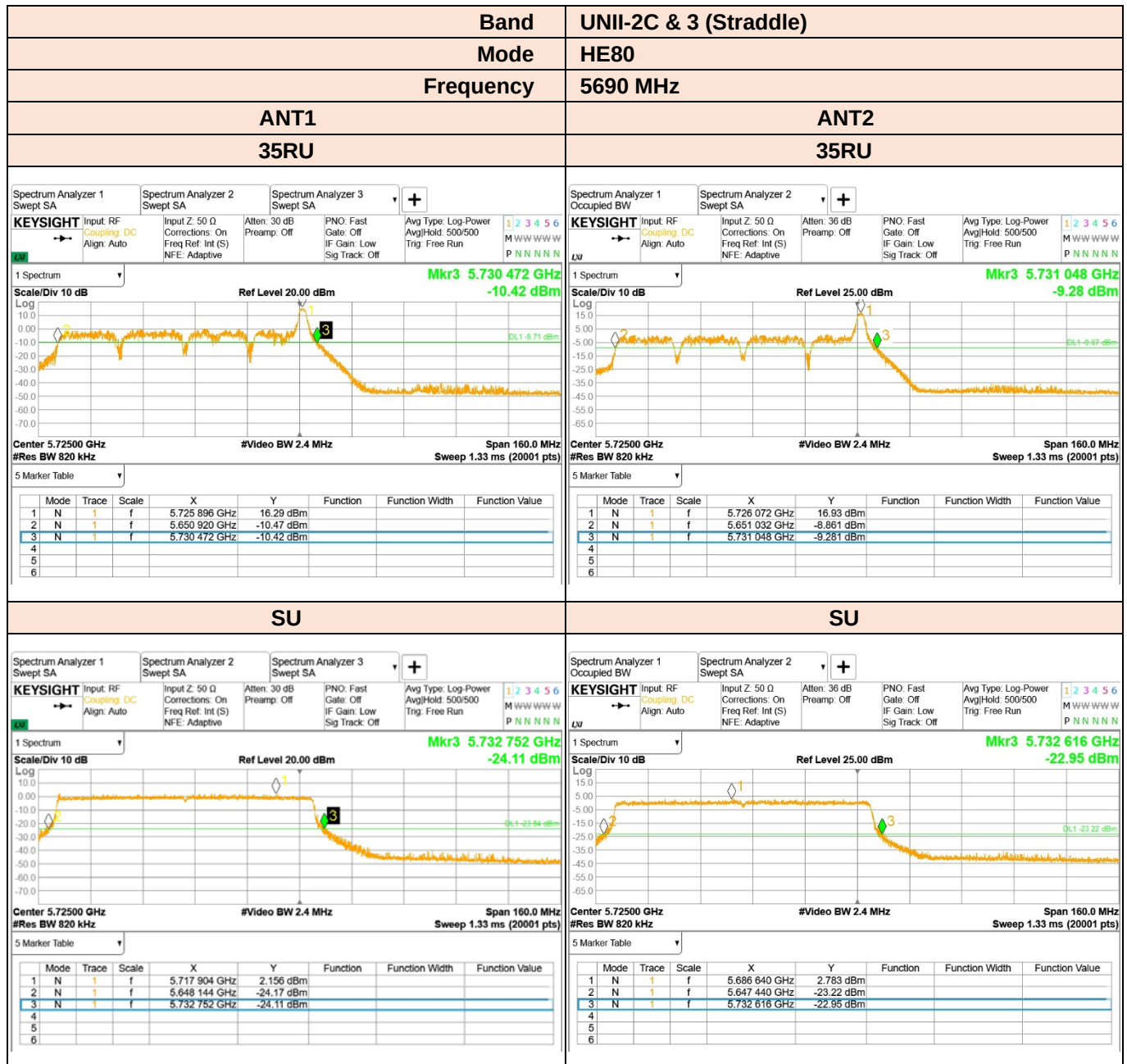


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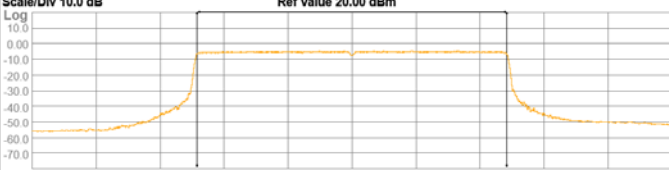


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Band	UNII-2C & 3 (Straddle)
Mode	HE20
Frequency	5720 MHz
ANT1	ANT2
SU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF L Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 40 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.720000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Ref Value 20.00 dBm Center 5.72000 GHz #Res BW 200.00 kHz #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.962 MHz Total Power 15.2 dBm Transmit Freq Error -12.803 kHz % of OBW Power 99.00 % x dB Bandwidth 20.26 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF L Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.720000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Ref Value 20.00 dBm Center 5.72000 GHz #Res BW 200.00 kHz #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.960 MHz Total Power 15.3 dBm Transmit Freq Error -8.327 kHz % of OBW Power 99.00 % x dB Bandwidth 20.17 MHz x dB -26.00 dB

Band	UNII-2C & 3 (Straddle)
Mode	HE40
Frequency	5710 MHz
ANT1	ANT2
SU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF L Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 40 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.710000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Ref Value 20.00 dBm Center 5.71000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.772 MHz Total Power 13.3 dBm Transmit Freq Error -22.030 kHz % of OBW Power 99.00 % x dB Bandwidth 39.96 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF L Coupling DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.710000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Ref Value 20.00 dBm Center 5.71000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 37.786 MHz Total Power 14.0 dBm Transmit Freq Error -13.798 kHz % of OBW Power 99.00 % x dB Bandwidth 39.75 MHz x dB -26.00 dB



Band	UNII-2C & 3 (Straddle)
Mode	HE80
Frequency	5690 MHz
ANT1	ANT2
SU	SU
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Attten: 40 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.690000000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm  Center 5.69000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 77.261 MHz Total Power 13.2 dBm Transmit Freq Error -3.857 kHz % of OBW Power 99.00 % x dB Bandwidth 80.77 MHz x dB -26.00 dB	Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Attten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.690000000 GHz Avg/Hold: 450/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm  Center 5.69000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 77.280 MHz Total Power 14.2 dBm Transmit Freq Error -9.665 kHz % of OBW Power 99.00 % x dB Bandwidth 80.88 MHz x dB -26.00 dB

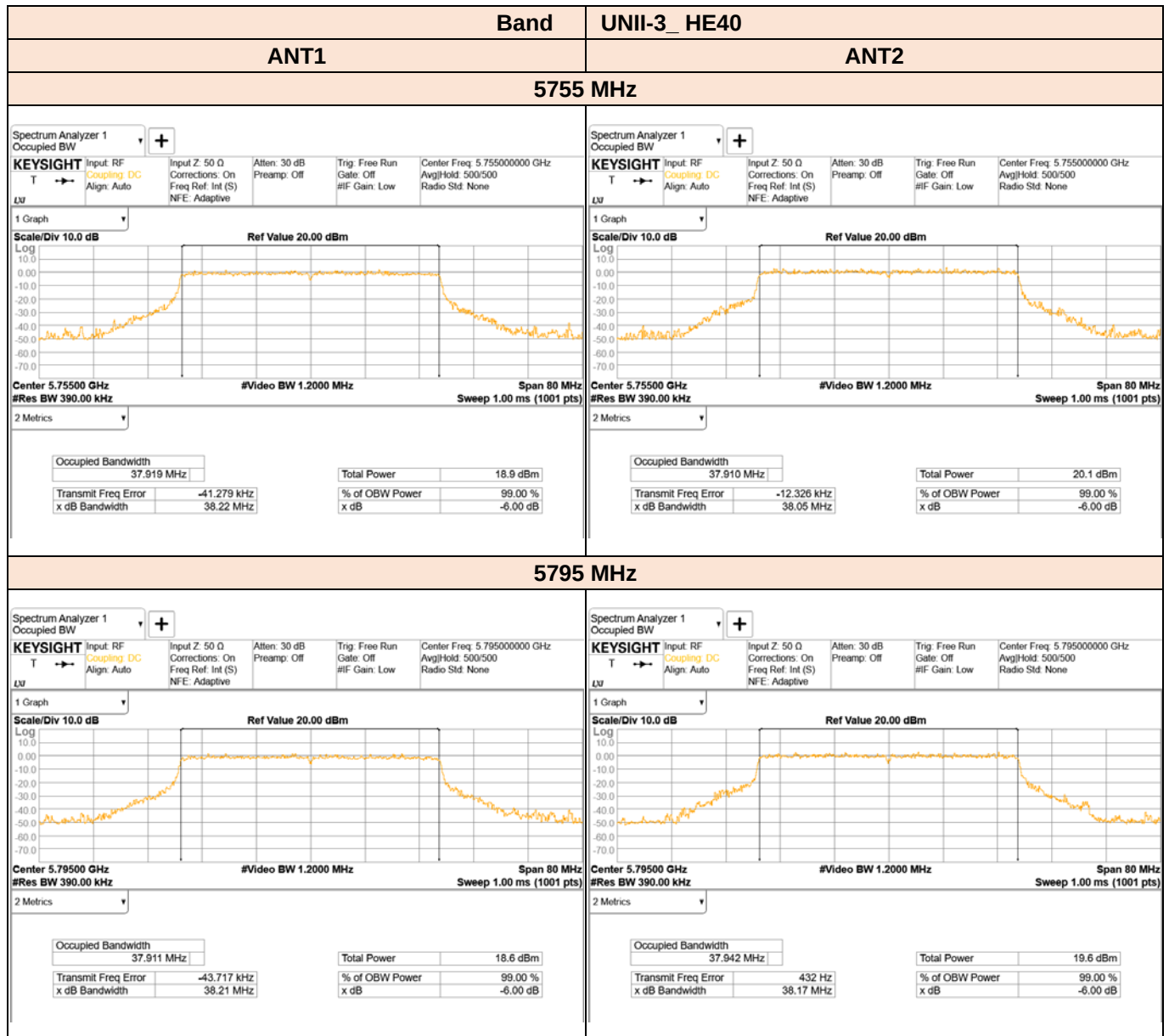


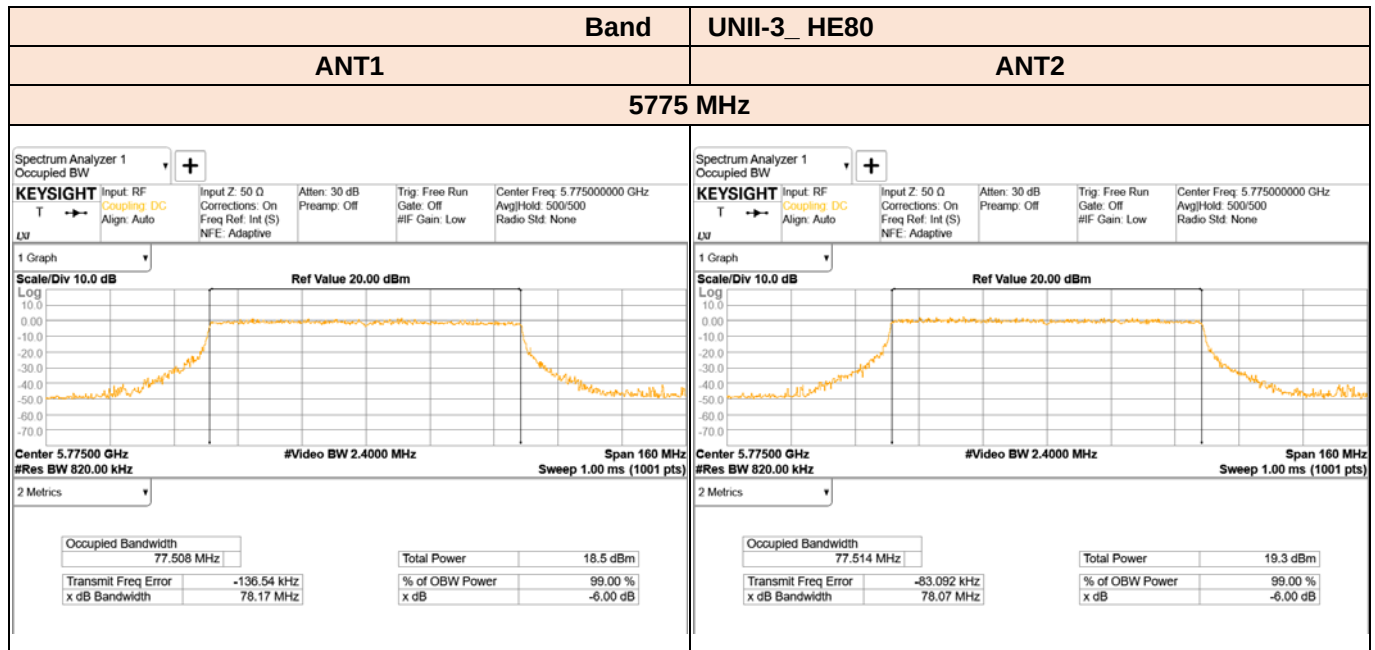
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Band		UNII-3_HE20
ANT1		ANT2
5745 MHz		
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.74500000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.940 MHz Total Power 21.4 dBm Transmit Freq Error -5.494 kHz % of OBW Power 99.00 % x dB Bandwidth 19.07 MHz x dB -6.00 dB		Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.74500000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.988 MHz Total Power 21.6 dBm Transmit Freq Error -9.974 kHz % of OBW Power 99.00 % x dB Bandwidth 19.09 MHz x dB -6.00 dB
5805 MHz		
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.80500000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.938 MHz Total Power 20.4 dBm Transmit Freq Error -5.106 kHz % of OBW Power 99.00 % x dB Bandwidth 19.07 MHz x dB -6.00 dB		Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.80500000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.973 MHz Total Power 21.5 dBm Transmit Freq Error 3.385 kHz % of OBW Power 99.00 % x dB Bandwidth 19.10 MHz x dB -6.00 dB
5825 MHz		
Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.82500000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.946 MHz Total Power 20.6 dBm Transmit Freq Error -11.355 kHz % of OBW Power 99.00 % x dB Bandwidth 19.09 MHz x dB -6.00 dB		Spectrum Analyzer 1 Occupied BW KEYSIGHT Input RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.82500000 GHz Avg/Hold: 500/500 Radio Std: None 1 Graph Scale/Div 10.0 dB Log Ref Value 20.00 dBm #Video BW 620.00 kHz Span 40 MHz Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 18.961 MHz Total Power 21.2 dBm Transmit Freq Error -1.599 kHz % of OBW Power 99.00 % x dB Bandwidth 19.07 MHz x dB -6.00 dB



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2.6 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards.

FCC CFR 47 Part 15, Subpart E (§15.407)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

All test items in this test report have been performed and recorded as per the above standards.

2.7 Test Equipment

Test Equipment is traceable to the National Institute of Standards and Technology (NIST). Measurement antenna used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Serial Number	Cal Date	Cal Due
R&S	HFH2-Z2E	Active Loop Antenna, 30 MHz	349806	2019.03.27	2021.03.27
Schwarzbeck	VULB 9163	Trilog Antenna, 3 GHz (with 6 dB ATT.)	01199	2019.04.03	2021.04.03
R&S	HF907	Horn Antenna, 18 GHz	102772	2020.01.22	2021.01.22
Steatite Antenna	QSH-SL-18-26-S-20	Horn Antenna, 26.5 GHz	19926	2020.03.04	2021.03.04
Schwarzbeck	BBHA9170	Antenna, Horn, 40 GHz	00955	2020.01.07	2021.01.07
R&S	SCU08F2	Signal Conditioning Unit, 8 GHz	08400016	2019.12.30	2020.12.30
R&S	SCU-18F	Signal Conditioning Unit, 18 GHz	180111	2019.12.30	2020.12.30
R&S	SCU-26F	Signal Conditioning Unit, 26.5 GHz	260005	2019.12.30	2020.12.30
L3 Narda-MITEQ	JS44-18004000-33-8P	Amplifier, 40 GHz	2142086	2020.04.07	2021.04.07
R&S	ESW44	EMI Test Receiver, 44 GHz	101812	2020.02.20	2021.02.20
Keysight Technologies	N9030B	Spectrum Analyzer, 44 GHz	MY57142476	2019.12.26	2020.12.26
R&S	FSW50	Spectrum Analyzer, 50 GHz	101403	2020.03.23	2021.03.23
Aeroflex	40AH2W-3	Attenuator, 3 dB	1	2019.12.31	2020.12.31
Mini-Circuits	VAT-10W2+	Attenuator, 10 dB	1622	2020.01.02	2021.01.02
Aeroflex	40AH2W-10	Attenuator, 10 dB	1	2019.12.31	2020.12.31
R&S	NRP6A	Average Power Sensor	102045	2019.12.31	2020.12.31
R&S	NRP6A	Average Power Sensor	102044	2019.12.31	2020.12.31
R&S	NRX	Power Meter, 110 GHz	100947	2019.12.30	2020.12.30
Keysight Technologies	MP400B	MIMO Power Set Master, 18 GHz	None	2020.01.03	2021.01.03
Wt Microwave	WT-A1700-LS	Low Pass Filter, 4.5 GHz	WT190313-6-6	2020.01.03	2021.01.03
Wt Microwave	WT-A1699-HS	High Pass Filter 6.5 GHz	WT190313-6-5	2020.01.03	2021.01.03
Weinschel	1580	Divider	UA422	2020.03.23	2021.03.23
Weinschel	1580	Divider	SW796	2020.03.23	2021.03.23
R&S	ENV216	LISN	102437	2019.12.26	2020.12.26
R&S	ESR	EMI Test Receiver, 3.6 GHz	102529	2019.12.27	2020.12.27

3 Test Results

3.1 Antenna Requirement

Except from §15.203 of the FCC Rules/Regulations:

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of the section.

- The antenna(s) of the EUT are Permanently attached.
- There are no provisions for connection to an external antenna.

Result

The EUT complies with the requirement of §15.203

3.2 6 dB Bandwidth

3.2.1 Regulation

§15.207(e) : Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedure

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz. The following procedure shall be used for measuring this bandwidth:

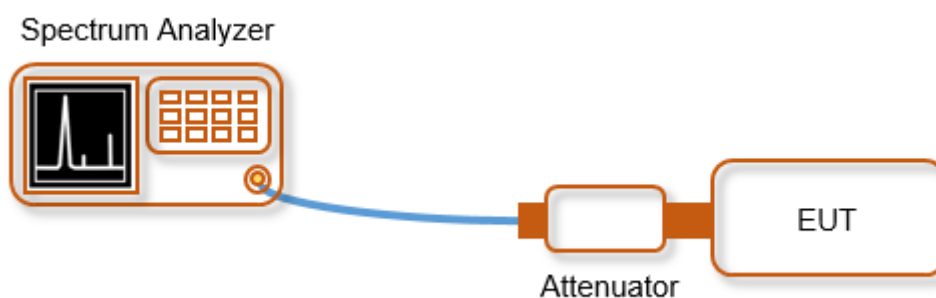
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

3.2.3 Deviation from Test Standard

No deviation.

3.2.4 Test Setup



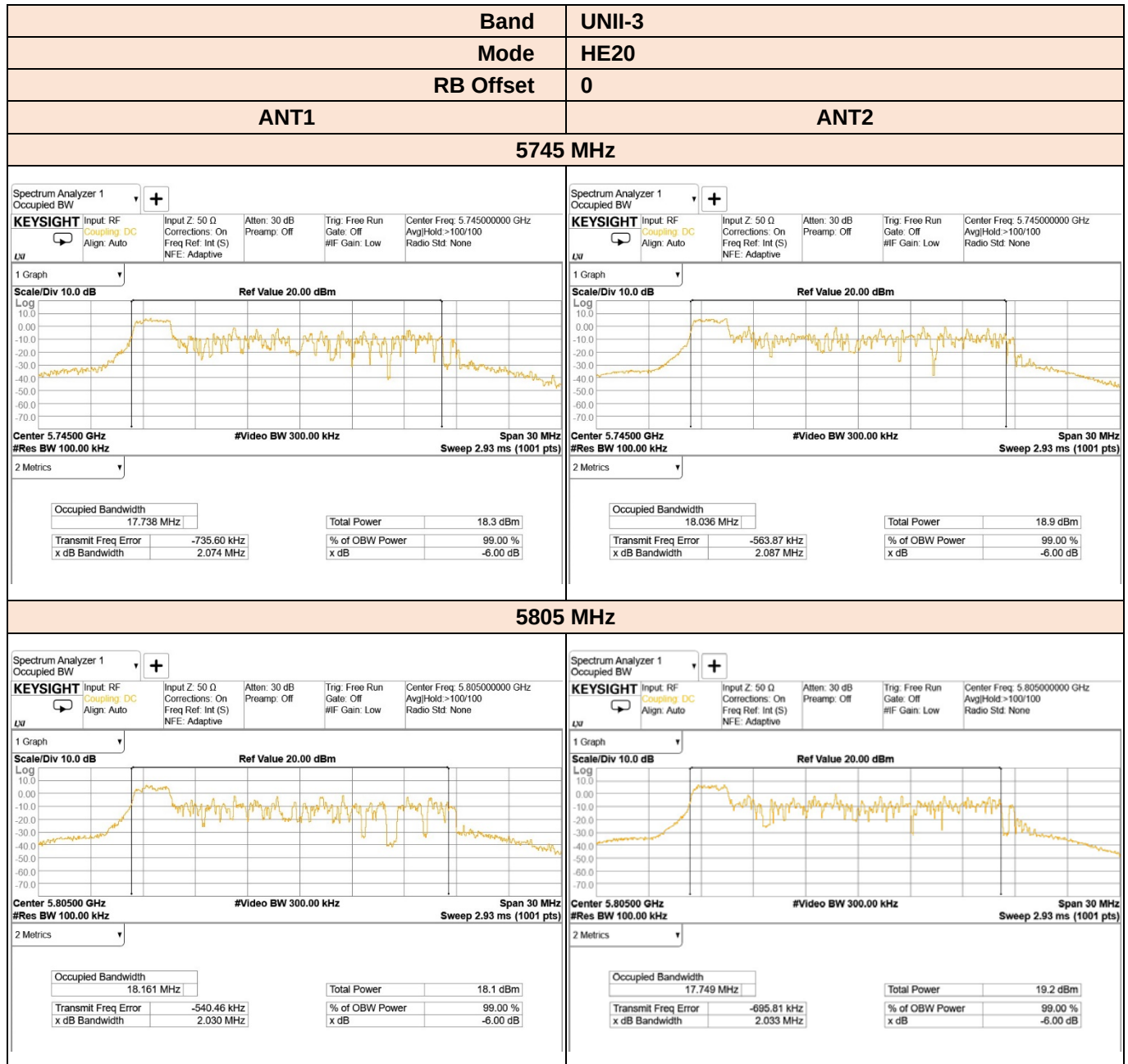
3.2.5 Test Result

[Test Data of 6 dB Bandwidth]

Band	Test Mode	Channel	Frequency [MHz]	Tones	RU offset	6 dB BW [MHz]		Limit [MHz]
						ANT1	ANT2	
U-NII-3	802.11ax HE20	Lowest	5 745	26T	0	2.09	2.08	0.50
		Middle	5 805			2.12	2.10	
		Highest	5 825			2.13	2.07	
		Minimum 6 dB Bandwidth				2.09	2.07	
	802.11ax HE40	Lowest	5 755	26T	0	2.12	2.14	
		Highest	5 795			2.10	2.11	
		Minimum 6 dB Bandwidth				2.10	2.11	
	802.11ax HE80	Middle	5 775	26T	0	2.26	2.24	
		Minimum 6 dB Bandwidth				2.26	2.24	



[Test Plot of 6 dB Bandwidth]





5825 MHz

