7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Bandwidth	N/A	Conducted	Pass	Section 7.2
15.407(e)	6dB Bandwidth	≥ 500kHz		Pass	Section 7.3
15.407(a)(1)(iv), (2), (3)	Maximum Conducted Output Power	≤ 24 dBm U-NII-1 & U-NII-2 ≤ 30 dBm U-NII-3		Pass	Section 7.4
15.407(h)(1)	Transmit Power Control	≤ 24 dBm		Pass	Section 7.5
15.407(a)(1)(iv), (2), (3), (5)	Peak Power Spectral Density	≤ 11 dBm/MHz U-NII-1 & U-NII-2 ≤ 30 dBm/500kHz U-NII-3		Pass	Section 7.6
15.407(g)	Frequency Stability	N/A		Pass	Section 7.7
15.205	Restricted Bands	Emissions in restricted bands must meet the radiated limits detailed in 15.205		Pass	Section 7.9
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	≤ -27dBm/MHz EIRP Detail see section 7.9	Radiated	Pass	Section 7.8
15.209 15.407(b)(5), (6), (7)	General Field Strength Limits (Radiated Emission Limits)	Radiated Emission must meet the radiated limits detailed in 15.209		Pass	
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	N/A	Section 7.10

Notes:

1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

7.2. 26dB Bandwidth Measurement and 99% Bandwidth

7.2.1. Test Limit

N/A

7.2.2. Test Procedure used

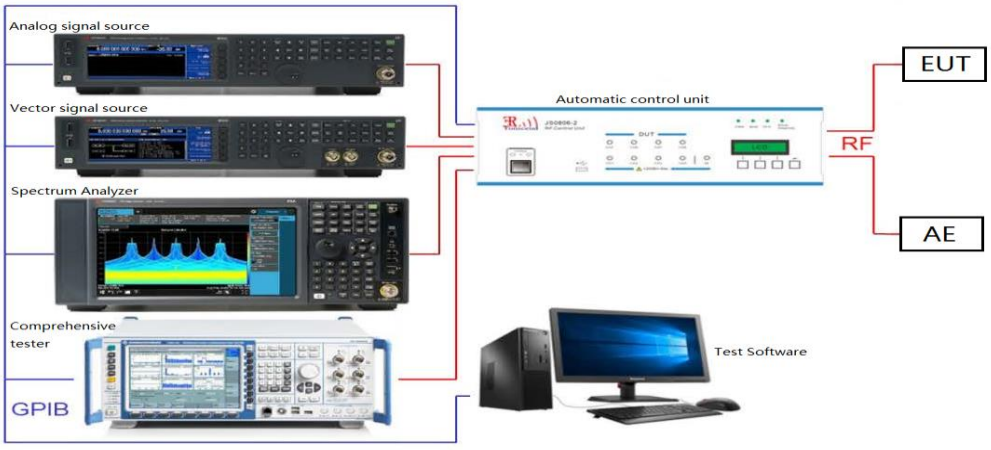
KDB 789033 D02v02r01 – Section C.1

ANSI C63.10-2013 D02v02r01 – Section C

7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW ≥ 3 × RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.2.4. Test Setup



7.2.5. Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	OCB [MHz]
11A	Ant1	5180	20.960	5169.440	5190.400	17.101
		5200	20.440	5189.720	5210.160	17.133
		5240	20.120	5229.880	5250.000	17.153
		5260	20.360	5249.720	5270.080	17.214
		5280	20.160	5269.880	5290.040	17.083
		5320	20.280	5309.840	5330.120	17.184
		5500	21.040	5489.280	5510.320	17.118
		5580	20.600	5569.920	5590.520	17.140
		5700	22.200	5689.680	5711.880	17.079
		5745	25.320	5732.040	5757.360	17.509
		5785	32.600	5769.160	5801.760	17.776
		5825	35.520	5808.680	5844.200	19.821
11N20SISO	Ant1	5180	21.280	5169.440	5190.720	18.015
		5200	20.640	5189.720	5210.360	18.048
		5240	21.200	5229.320	5250.520	18.142
		5260	21.120	5249.480	5270.600	18.156
		5280	20.560	5269.600	5290.160	18.043
		5320	21.880	5309.440	5331.320	18.192
		5500	21.480	5489.160	5510.640	18.050
		5580	21.160	5569.520	5590.680	18.087
		5700	21.040	5689.360	5710.400	17.961
		5745	23.240	5734.240	5757.480	18.328
		5785	30.840	5771.400	5802.240	18.547
		5825	38.080	5806.560	5844.640	19.797
11N40SISO	Ant1	5190	44.000	5166.720	5210.720	36.723
		5230	41.360	5209.280	5250.640	36.523
		5270	41.200	5249.520	5290.720	36.796
		5310	40.880	5289.360	5330.240	36.562
		5510	40.640	5489.760	5530.400	36.765
		5550	41.760	5528.720	5570.480	36.748
		5670	42.640	5648.880	5691.520	36.714
		5755	48.000	5734.680	5782.680	36.884
		5795	73.760	5759.880	5833.640	38.266

11AC20SISO	Ant1	5180	20.920	5169.440	5190.360	18.022
		5200	20.760	5189.600	5210.360	18.076
		5240	21.760	5229.360	5251.120	18.088
		5260	21.280	5249.560	5270.840	18.074
		5280	20.560	5269.800	5290.360	17.917
		5320	20.720	5309.480	5330.200	18.081
		5500	20.880	5489.600	5510.480	18.056
		5580	21.000	5569.320	5590.320	18.009
		5700	20.560	5689.680	5710.240	17.900
		5745	24.120	5734.280	5758.400	18.063
		5785	26.800	5771.800	5798.600	18.540
		5825	35.120	5808.080	5843.200	19.655
11AC40SISO	Ant1	5190	42.560	5168.720	5211.280	36.802
		5230	41.920	5208.800	5250.720	36.598
		5270	41.360	5249.440	5290.800	36.848
		5310	42.480	5289.280	5331.760	36.938
		5510	41.520	5489.200	5530.720	36.779
		5550	41.840	5528.640	5570.480	36.549
		5670	40.800	5649.440	5690.240	36.503
		5755	56.560	5734.360	5790.920	36.688
		5795	66.400	5768.600	5835.000	37.335
11AC80SISO	Ant1	5210	89.760	5161.040	5250.800	75.893
		5290	82.080	5249.200	5331.280	75.875
		5530	80.960	5489.520	5570.480	76.126
		5610	81.920	5568.560	5650.480	76.002
		5775	80.800	5734.680	5815.480	75.816

Test Graphs of 26dB Bandwidth

11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240

11A_Ant1_5260

11A_Ant1_5280

11A_Ant1_5320

11A_Ant1_5500

11A_Ant1_5580

11A_Ant1_5700

11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

11N20SISO_Ant1_5260

11N20SISO_Ant1_5280

11N20SISO_Ant1_5320

11N20SISO_Ant1_5500

11N20SISO_Ant1_5580

11N20SISO_Ant1_5700

11N20SISO_Ant1_5745

11N20SISO_Ant1_5785

11N20SISO_Ant1_5825

11N40SISO_Ant1_5190

11N40SISO_Ant1_5230

11N40SISO_Ant1_5270

11N40SISO_Ant1_5310

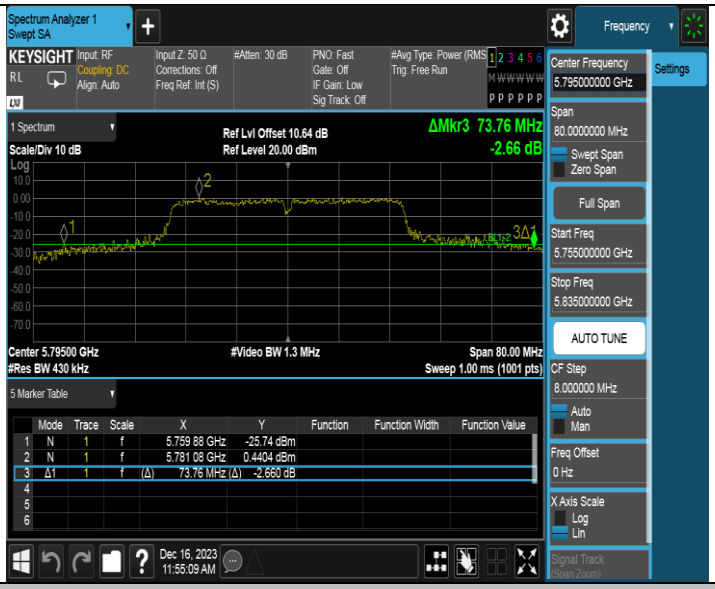
11N40SISO_Ant1_5510

11N40SISO_Ant1_5550

11N40SISO_Ant1_5670

11N40SISO_Ant1_5755

11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200