

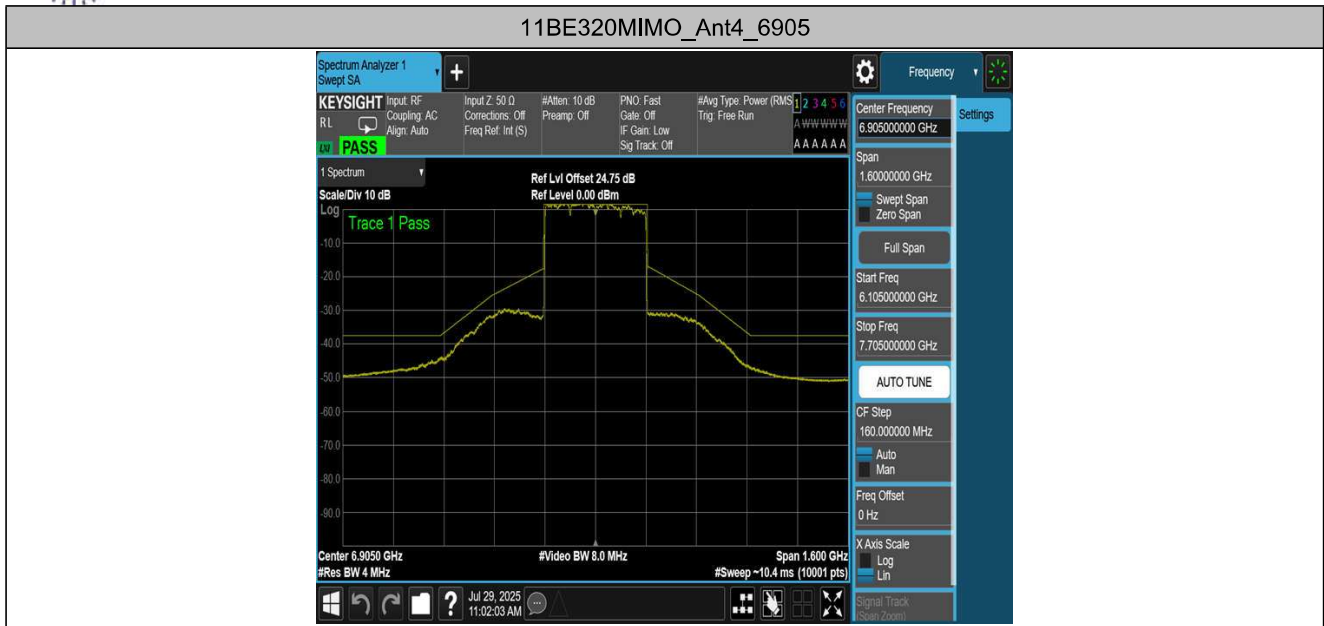


11BE320MIMO_Ant2_6905



11BE320MIMO_Ant3_6905





3.5 Frequency Stability Measurement

3.5.1 Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.5.2 Test Procedure

Frequency Stability Under Temperature Variations:

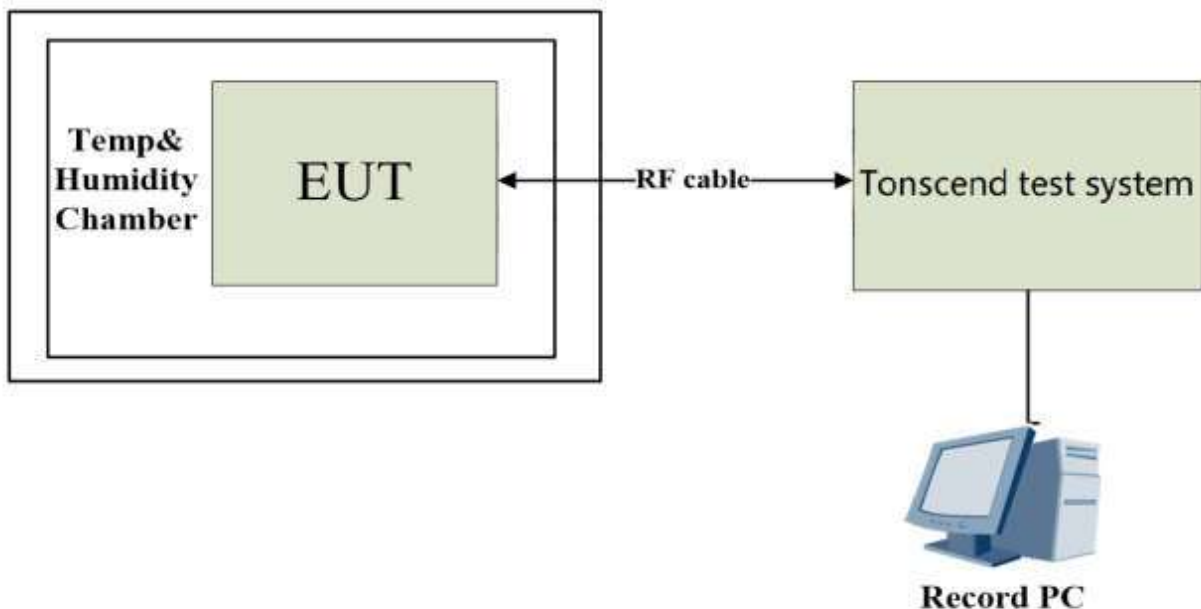
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

3.5.3 Test Setup



3.5.4 The Result

TestMode	Antenna	Frequenc y[MHz]	Voltage [Vdc]	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A-CDD	Ant1	5955	LV	-20000.00	-3.358522	20	PASS
			HV	-20000.00	-3.358522	20	PASS
			NV	-20000.00	-3.358522	20	PASS
	Ant2	5955	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant3	5955	NV	0.00	0.000000	20	PASS
			LV	-20000.00	-3.358522	20	PASS
			HV	-20000.00	-3.358522	20	PASS
	Ant4	5955	NV	-20000.00	-3.358522	20	PASS
			LV	-20000.00	-3.358522	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant1	6175	NV	-40000.00	-6.477733	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-20000.00	-3.238866	20	PASS
	Ant2	6175	NV	-20000.00	-3.238866	20	PASS
			LV	-20000.00	-3.238866	20	PASS
			HV	-40000.00	-6.477733	20	PASS
	Ant3	6175	HV	-20000.00	-3.238866	20	PASS
			LV	-40000.00	-6.477733	20	PASS
			NV	-20000.00	-3.238866	20	PASS
	Ant4	6175	LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			NV	-20000.00	-3.238866	20	PASS
	Ant1	6415	NV	-20000.00	-3.117693	20	PASS
			LV	-40000.00	-6.235386	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6415	HV	-40000.00	-6.235386	20	PASS
			NV	-20000.00	-3.117693	20	PASS
			LV	-40000.00	-6.235386	20	PASS
	Ant3	6415	HV	-40000.00	-6.235386	20	PASS
			NV	0.00	0.000000	20	PASS
			LV	-40000.00	-6.235386	20	PASS
	Ant4	6415	NV	-20000.00	-3.117693	20	PASS
			LV	-20000.00	-3.117693	20	PASS
			HV	-40000.00	-6.235386	20	PASS
	Ant1	6435	HV	-20000.00	-3.108003	20	PASS
			NV	-20000.00	-3.108003	20	PASS
			LV	-20000.00	-3.108003	20	PASS
	Ant2	6435	HV	-40000.00	-6.216006	20	PASS

			NV	-40000.00	-6.216006	20	PASS
			LV	-40000.00	-6.216006	20	PASS
	Ant3	6435	NV	-20000.00	-3.108003	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-20000.00	-3.108003	20	PASS
	Ant4	6435	NV	-40000.00	-6.216006	20	PASS
			LV	-20000.00	-3.108003	20	PASS
			HV	-20000.00	-3.108003	20	PASS
	Ant1	6475	NV	-20000.00	-3.088803	20	PASS
			LV	-20000.00	-3.088803	20	PASS
			HV	-40000.00	-6.177606	20	PASS
	Ant2	6475	NV	-20000.00	-3.088803	20	PASS
			LV	-40000.00	-6.177606	20	PASS
			HV	-40000.00	-6.177606	20	PASS
	Ant3	6475	NV	-20000.00	-3.088803	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-40000.00	-6.177606	20	PASS
	Ant4	6475	HV	-40000.00	-6.177606	20	PASS
			LV	-40000.00	-6.177606	20	PASS
			NV	-40000.00	-6.177606	20	PASS
	Ant1	6515	LV	-40000.00	-6.139678	20	PASS
			HV	-20000.00	-3.069839	20	PASS
			NV	-40000.00	-6.139678	20	PASS
	Ant2	6515	NV	-40000.00	-6.139678	20	PASS
			LV	-40000.00	-6.139678	20	PASS
			HV	-40000.00	-6.139678	20	PASS
	Ant3	6515	HV	-20000.00	-3.069839	20	PASS
			NV	-20000.00	-3.069839	20	PASS
			LV	-40000.00	-6.139678	20	PASS
	Ant4	6515	HV	-20000.00	-3.069839	20	PASS
			NV	-40000.00	-6.139678	20	PASS
			LV	-20000.00	-3.069839	20	PASS
	Ant1	6535	NV	-20000.00	-3.060444	20	PASS
			LV	-40000.00	-6.120888	20	PASS
			HV	-20000.00	-3.060444	20	PASS
	Ant2	6535	NV	-40000.00	-6.120888	20	PASS
			LV	-20000.00	-3.060444	20	PASS
			HV	-40000.00	-6.120888	20	PASS
	Ant3	6535	LV	-40000.00	-6.120888	20	PASS
			HV	-20000.00	-3.060444	20	PASS
			NV	-20000.00	-3.060444	20	PASS
	Ant4	6535	NV	-40000.00	-6.120888	20	PASS
			LV	-20000.00	-3.060444	20	PASS

	Ant1	6695	HV	-20000.00	-3.060444	20	PASS
			NV	-20000.00	-2.987304	20	PASS
			LV	-20000.00	-2.987304	20	PASS
			HV	-20000.00	-2.987304	20	PASS
	Ant2	6695	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-20000.00	-2.987304	20	PASS
	Ant3	6695	NV	-20000.00	-2.987304	20	PASS
			LV	-20000.00	-2.987304	20	PASS
			HV	-40000.00	-5.974608	20	PASS
	Ant4	6695	NV	-20000.00	-2.987304	20	PASS
			LV	-20000.00	-2.987304	20	PASS
			HV	-20000.00	-2.987304	20	PASS
	Ant1	6855	HV	-20000.00	-2.917578	20	PASS
			LV	-40000.00	-5.835157	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant2	6855	LV	-20000.00	-2.917578	20	PASS
			HV	0.00	0.000000	20	PASS
			NV	-20000.00	-2.917578	20	PASS
	Ant3	6855	NV	-20000.00	-2.917578	20	PASS
			LV	-40000.00	-5.835157	20	PASS
			HV	-20000.00	-2.917578	20	PASS
	Ant4	6855	HV	-20000.00	-2.917578	20	PASS
			NV	-20000.00	-2.917578	20	PASS
			LV	-20000.00	-2.917578	20	PASS
	Ant1	6875	HV	-20000.00	-2.909091	20	PASS
			NV	-20000.00	-2.909091	20	PASS
			LV	-40000.00	-5.818182	20	PASS
	Ant2	6875	NV	-20000.00	-2.909091	20	PASS
			LV	-40000.00	-5.818182	20	PASS
			HV	-20000.00	-2.909091	20	PASS
	Ant3	6875	NV	-20000.00	-2.909091	20	PASS
			LV	-20000.00	-2.909091	20	PASS
			HV	-20000.00	-2.909091	20	PASS
	Ant4	6875	NV	-40000.00	-5.818182	20	PASS
			LV	-20000.00	-2.909091	20	PASS
			HV	-40000.00	-5.818182	20	PASS
	Ant1	6895	NV	-40000.00	-5.801305	20	PASS
			LV	-20000.00	-2.900653	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6895	NV	-20000.00	-2.900653	20	PASS
			LV	-20000.00	-2.900653	20	PASS
			HV	-40000.00	-5.801305	20	PASS

	Ant3	6895	LV	0.00	0.000000	20	PASS
			HV	-20000.00	-2.900653	20	PASS
			NV	-20000.00	-2.900653	20	PASS
	Ant4	6895	LV	-20000.00	-2.900653	20	PASS
			HV	-20000.00	-2.900653	20	PASS
			NV	-20000.00	-2.900653	20	PASS
	Ant1	6995	NV	-40000.00	-5.718370	20	PASS
			LV	-40000.00	-5.718370	20	PASS
			HV	-20000.00	-2.859185	20	PASS
	Ant2	6995	HV	-20000.00	-2.859185	20	PASS
			NV	-20000.00	-2.859185	20	PASS
			LV	-20000.00	-2.859185	20	PASS
	Ant3	6995	HV	0.00	0.000000	20	PASS
			LV	-40000.00	-5.718370	20	PASS
			NV	-20000.00	-2.859185	20	PASS
	Ant4	6995	NV	-20000.00	-2.859185	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-20000.00	-2.859185	20	PASS
	Ant1	7115	NV	-20000.00	-2.810963	20	PASS
			LV	-20000.00	-2.810963	20	PASS
			HV	-20000.00	-2.810963	20	PASS
	Ant2	7115	NV	-20000.00	-2.810963	20	PASS
			LV	-40000.00	-5.621926	20	PASS
			HV	-20000.00	-2.810963	20	PASS
	Ant3	7115	NV	-40000.00	-5.621926	20	PASS
			LV	-20000.00	-2.810963	20	PASS
			HV	-20000.00	-2.810963	20	PASS
	Ant4	7115	NV	-20000.00	-2.810963	20	PASS
			LV	-20000.00	-2.810963	20	PASS
			HV	-20000.00	-2.810963	20	PASS
11BE20MIM O	Ant1	5955	LV	-20000.00	-3.358522	20	PASS
			HV	-20000.00	-3.358522	20	PASS
			NV	-20000.00	-3.358522	20	PASS
	Ant2	5955	NV	-20000.00	-3.358522	20	PASS
			LV	-20000.00	-3.358522	20	PASS
			HV	-20000.00	-3.358522	20	PASS
	Ant3	5955	LV	-20000.00	-3.358522	20	PASS
			HV	-20000.00	-3.358522	20	PASS
			NV	-20000.00	-3.358522	20	PASS
	Ant4	5955	LV	-20000.00	-3.358522	20	PASS
			HV	-20000.00	-3.358522	20	PASS
			NV	-20000.00	-3.358522	20	PASS
	Ant1	6175	NV	-20000.00	-3.238866	20	PASS

			LV	0.00	0.000000	20	PASS
			HV	-20000.00	-3.238866	20	PASS
	Ant2	6175	LV	0.00	0.000000	20	PASS
			HV	-20000.00	-3.238866	20	PASS
			NV	-20000.00	-3.238866	20	PASS
	Ant3	6175	LV	0.00	0.000000	20	PASS
			HV	-20000.00	-3.238866	20	PASS
			NV	-20000.00	-3.238866	20	PASS
	Ant4	6175	NV	-20000.00	-3.238866	20	PASS
			LV	-20000.00	-3.238866	20	PASS
			HV	-20000.00	-3.238866	20	PASS
	Ant1	6415	NV	-20000.00	-3.117693	20	PASS
			LV	-20000.00	-3.117693	20	PASS
			HV	-20000.00	-3.117693	20	PASS
	Ant2	6415	NV	-20000.00	-3.117693	20	PASS
			LV	-20000.00	-3.117693	20	PASS
			HV	-20000.00	-3.117693	20	PASS
	Ant3	6415	NV	-20000.00	-3.117693	20	PASS
			LV	-20000.00	-3.117693	20	PASS
			HV	-20000.00	-3.117693	20	PASS
	Ant4	6415	NV	-20000.00	-3.117693	20	PASS
			LV	-20000.00	-3.117693	20	PASS
			HV	-20000.00	-3.117693	20	PASS
	Ant1	6435	NV	-20000.00	-3.108003	20	PASS
			LV	-20000.00	-3.108003	20	PASS
			HV	-20000.00	-3.108003	20	PASS
	Ant2	6435	NV	-20000.00	-3.108003	20	PASS
			LV	-20000.00	-3.108003	20	PASS
			HV	-20000.00	-3.108003	20	PASS
	Ant3	6435	NV	-20000.00	-3.108003	20	PASS
			LV	-20000.00	-3.108003	20	PASS
			HV	-20000.00	-3.108003	20	PASS
	Ant4	6435	NV	-20000.00	-3.108003	20	PASS
			LV	-20000.00	-3.108003	20	PASS
			HV	-20000.00	-3.108003	20	PASS
	Ant1	6475	HV	-20000.00	-3.088803	20	PASS
			NV	-20000.00	-3.088803	20	PASS
			LV	-20000.00	-3.088803	20	PASS
	Ant2	6475	HV	-20000.00	-3.088803	20	PASS
			NV	-20000.00	-3.088803	20	PASS
			LV	-20000.00	-3.088803	20	PASS
	Ant3	6475	NV	-20000.00	-3.088803	20	PASS
			LV	-20000.00	-3.088803	20	PASS

			HV	-20000.00	-3.088803	20	PASS
	Ant4	6475	HV	-20000.00	-3.088803	20	PASS
			NV	-20000.00	-3.088803	20	PASS
			LV	-20000.00	-3.088803	20	PASS
	Ant1	6515	HV	-20000.00	-3.069839	20	PASS
			NV	-20000.00	-3.069839	20	PASS
			LV	-20000.00	-3.069839	20	PASS
	Ant2	6515	NV	-20000.00	-3.069839	20	PASS
			LV	-20000.00	-3.069839	20	PASS
			HV	-20000.00	-3.069839	20	PASS
	Ant3	6515	HV	-20000.00	-3.069839	20	PASS
			LV	-20000.00	-3.069839	20	PASS
			NV	-20000.00	-3.069839	20	PASS
	Ant4	6515	LV	-20000.00	-3.069839	20	PASS
			HV	-20000.00	-3.069839	20	PASS
			NV	-20000.00	-3.069839	20	PASS
	Ant1	6535	NV	-20000.00	-3.060444	20	PASS
			LV	-20000.00	-3.060444	20	PASS
			HV	-20000.00	-3.060444	20	PASS
	Ant2	6535	NV	-20000.00	-3.060444	20	PASS
			LV	-20000.00	-3.060444	20	PASS
			HV	-20000.00	-3.060444	20	PASS
	Ant3	6535	NV	-20000.00	-3.060444	20	PASS
			LV	-20000.00	-3.060444	20	PASS
			HV	-20000.00	-3.060444	20	PASS
	Ant4	6535	NV	-20000.00	-3.060444	20	PASS
			LV	-20000.00	-3.060444	20	PASS
			HV	-20000.00	-3.060444	20	PASS
	Ant2	6695	NV	-20000.00	-2.987304	20	PASS
			HV	-20000.00	-2.987304	20	PASS
			LV	-20000.00	-2.987304	20	PASS
	Ant3	6695	NV	-20000.00	-2.987304	20	PASS
			LV	-20000.00	-2.987304	20	PASS
			HV	-20000.00	-2.987304	20	PASS
	Ant4	6695	NV	-20000.00	-2.987304	20	PASS
			LV	-20000.00	-2.987304	20	PASS
			HV	-20000.00	-2.987304	20	PASS
	Ant1	6855	NV	-20000.00	-2.917578	20	PASS
			LV	-20000.00	-2.917578	20	PASS
			HV	-20000.00	-2.917578	20	PASS
	Ant2	6855	NV	-20000.00	-2.917578	20	PASS
			LV	-20000.00	-2.917578	20	PASS
			HV	-20000.00	-2.917578	20	PASS

	Ant3	6855	HV	-20000.00	-2.917578	20	PASS
			NV	-20000.00	-2.917578	20	PASS
			LV	-20000.00	-2.917578	20	PASS
	Ant4	6855	HV	-20000.00	-2.917578	20	PASS
			LV	-20000.00	-2.917578	20	PASS
			NV	-20000.00	-2.917578	20	PASS
	Ant1	6875	NV	-20000.00	-2.909091	20	PASS
			LV	-20000.00	-2.909091	20	PASS
			HV	-20000.00	-2.909091	20	PASS
	Ant2	6875	HV	-20000.00	-2.909091	20	PASS
			NV	-20000.00	-2.909091	20	PASS
			LV	-20000.00	-2.909091	20	PASS
	Ant3	6875	HV	-20000.00	-2.909091	20	PASS
			NV	-20000.00	-2.909091	20	PASS
			LV	-20000.00	-2.909091	20	PASS
	Ant4	6875	NV	-20000.00	-2.909091	20	PASS
			LV	-20000.00	-2.909091	20	PASS
			HV	-20000.00	-2.909091	20	PASS
	Ant1	6895	LV	-20000.00	-2.900653	20	PASS
			HV	-20000.00	-2.900653	20	PASS
			NV	-20000.00	-2.900653	20	PASS
	Ant2	6895	NV	-20000.00	-2.900653	20	PASS
			LV	-20000.00	-2.900653	20	PASS
			HV	-20000.00	-2.900653	20	PASS
	Ant3	6895	NV	-20000.00	-2.900653	20	PASS
			LV	-20000.00	-2.900653	20	PASS
			HV	-20000.00	-2.900653	20	PASS
	Ant4	6895	NV	-20000.00	-2.900653	20	PASS
			LV	-20000.00	-2.900653	20	PASS
			HV	-20000.00	-2.900653	20	PASS
	Ant1	6995	NV	-20000.00	-2.859185	20	PASS
			LV	-20000.00	-2.859185	20	PASS
			HV	-20000.00	-2.859185	20	PASS
	Ant2	6995	HV	-20000.00	-2.859185	20	PASS
			NV	-20000.00	-2.859185	20	PASS
			LV	-20000.00	-2.859185	20	PASS
	Ant3	6995	HV	-20000.00	-2.859185	20	PASS
			NV	-20000.00	-2.859185	20	PASS
			LV	-20000.00	-2.859185	20	PASS
	Ant4	6995	NV	-20000.00	-2.859185	20	PASS
			LV	-20000.00	-2.859185	20	PASS
			HV	-20000.00	-2.859185	20	PASS
	Ant1	7115	HV	-20000.00	-2.810963	20	PASS

			NV	-20000.00	-2.810963	20	PASS
			LV	-20000.00	-2.810963	20	PASS
	Ant2	7115	HV	-20000.00	-2.810963	20	PASS
			NV	-20000.00	-2.810963	20	PASS
			LV	-20000.00	-2.810963	20	PASS
	Ant3	7115	NV	-20000.00	-2.810963	20	PASS
			LV	-20000.00	-2.810963	20	PASS
			HV	-20000.00	-2.810963	20	PASS
	Ant4	7115	HV	-20000.00	-2.810963	20	PASS
			LV	-40000.00	-5.621926	20	PASS
			NV	-40000.00	-5.621926	20	PASS
11BE40MIM O	Ant1	5965	LV	-40000.00	-6.705784	20	PASS
			HV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant2	5965	NV	-40000.00	-6.705784	20	PASS
			LV	-40000.00	-6.705784	20	PASS
			HV	-40000.00	-6.705784	20	PASS
	Ant3	5965	NV	-40000.00	-6.705784	20	PASS
			LV	-40000.00	-6.705784	20	PASS
			HV	-40000.00	-6.705784	20	PASS
	Ant4	5965	NV	-40000.00	-6.705784	20	PASS
			LV	-40000.00	-6.705784	20	PASS
			HV	-40000.00	-6.705784	20	PASS
	Ant1	6165	NV	-40000.00	-6.488240	20	PASS
			LV	-40000.00	-6.488240	20	PASS
			HV	-40000.00	-6.488240	20	PASS
	Ant2	6165	NV	-40000.00	-6.488240	20	PASS
			LV	-40000.00	-6.488240	20	PASS
			HV	-40000.00	-6.488240	20	PASS
	Ant3	6165	NV	-40000.00	-6.488240	20	PASS
			LV	-40000.00	-6.488240	20	PASS
			HV	-40000.00	-6.488240	20	PASS
	Ant4	6165	NV	-40000.00	-6.488240	20	PASS
			LV	-40000.00	-6.488240	20	PASS
			HV	-40000.00	-6.488240	20	PASS
	Ant1	6405	NV	-40000.00	-6.245121	20	PASS
			LV	-40000.00	-6.245121	20	PASS
			HV	-40000.00	-6.245121	20	PASS
	Ant2	6405	NV	-40000.00	-6.245121	20	PASS
			LV	-40000.00	-6.245121	20	PASS
			HV	-40000.00	-6.245121	20	PASS
	Ant3	6405	HV	-40000.00	-6.245121	20	PASS
			NV	-40000.00	-6.245121	20	PASS

	Ant4	6405	LV	-40000.00	-6.245121	20	PASS
			HV	-40000.00	-6.245121	20	PASS
			NV	-40000.00	-6.245121	20	PASS
			LV	-40000.00	-6.245121	20	PASS
	Ant1	6445	NV	-40000.00	-6.206362	20	PASS
			LV	-40000.00	-6.206362	20	PASS
			HV	-40000.00	-6.206362	20	PASS
	Ant2	6445	HV	-40000.00	-6.206362	20	PASS
			NV	-40000.00	-6.206362	20	PASS
			LV	-40000.00	-6.206362	20	PASS
	Ant3	6445	HV	-40000.00	-6.206362	20	PASS
			NV	-40000.00	-6.206362	20	PASS
			LV	-40000.00	-6.206362	20	PASS
	Ant4	6445	NV	-40000.00	-6.206362	20	PASS
			LV	-40000.00	-6.206362	20	PASS
			HV	-40000.00	-6.206362	20	PASS
	Ant1	6485	HV	-40000.00	-6.168080	20	PASS
			LV	-40000.00	-6.168080	20	PASS
			NV	-40000.00	-6.168080	20	PASS
	Ant2	6485	NV	-40000.00	-6.168080	20	PASS
			LV	-40000.00	-6.168080	20	PASS
			HV	-40000.00	-6.168080	20	PASS
	Ant3	6485	NV	-40000.00	-6.168080	20	PASS
			LV	-40000.00	-6.168080	20	PASS
			HV	-40000.00	-6.168080	20	PASS
	Ant4	6485	NV	-40000.00	-6.168080	20	PASS
			LV	-40000.00	-6.168080	20	PASS
			HV	-40000.00	-6.168080	20	PASS
	Ant1	6525	NV	-40000.00	-6.130268	20	PASS
			LV	-40000.00	-6.130268	20	PASS
			HV	-40000.00	-6.130268	20	PASS
	Ant2	6525	NV	-40000.00	-6.130268	20	PASS
			LV	-40000.00	-6.130268	20	PASS
			HV	-40000.00	-6.130268	20	PASS
	Ant3	6525	HV	-40000.00	-6.130268	20	PASS
			NV	-40000.00	-6.130268	20	PASS
			LV	-40000.00	-6.130268	20	PASS
	Ant4	6525	NV	-40000.00	-6.130268	20	PASS
			LV	-40000.00	-6.130268	20	PASS
			HV	-40000.00	-6.130268	20	PASS
	Ant1	6565	HV	-40000.00	-6.092917	20	PASS
			NV	-40000.00	-6.092917	20	PASS
			LV	-40000.00	-6.092917	20	PASS

	Ant2	6565	HV	-40000.00	-6.092917	20	PASS
			NV	-40000.00	-6.092917	20	PASS
			LV	-40000.00	-6.092917	20	PASS
	Ant3	6565	NV	-40000.00	-6.092917	20	PASS
			LV	-40000.00	-6.092917	20	PASS
			HV	-40000.00	-6.092917	20	PASS
	Ant4	6565	HV	-40000.00	-6.092917	20	PASS
			LV	-40000.00	-6.092917	20	PASS
			NV	-40000.00	-6.092917	20	PASS
	Ant1	6685	LV	-40000.00	-5.983545	20	PASS
			HV	-40000.00	-5.983545	20	PASS
			NV	-40000.00	-5.983545	20	PASS
	Ant2	6685	NV	-40000.00	-5.983545	20	PASS
			LV	-40000.00	-5.983545	20	PASS
			HV	-40000.00	-5.983545	20	PASS
	Ant3	6685	NV	-40000.00	-5.983545	20	PASS
			LV	-40000.00	-5.983545	20	PASS
			HV	-40000.00	-5.983545	20	PASS
	Ant4	6685	NV	-40000.00	-5.983545	20	PASS
			LV	-40000.00	-5.983545	20	PASS
			HV	-40000.00	-5.983545	20	PASS
	Ant1	6845	NV	-40000.00	-5.843682	20	PASS
			LV	-40000.00	-5.843682	20	PASS
			HV	-40000.00	-5.843682	20	PASS
	Ant2	6845	NV	-40000.00	-5.843682	20	PASS
			LV	-40000.00	-5.843682	20	PASS
			HV	-40000.00	-5.843682	20	PASS
	Ant3	6845	NV	-40000.00	-5.843682	20	PASS
			LV	-40000.00	-5.843682	20	PASS
			HV	-40000.00	-5.843682	20	PASS
	Ant4	6845	HV	-40000.00	-5.843682	20	PASS
			NV	-40000.00	-5.843682	20	PASS
			LV	-40000.00	-5.843682	20	PASS
	Ant1	6885	HV	-40000.00	-5.809731	20	PASS
			NV	-40000.00	-5.809731	20	PASS
			LV	-40000.00	-5.809731	20	PASS
	Ant2	6885	NV	-40000.00	-5.809731	20	PASS
			LV	-40000.00	-5.809731	20	PASS
			HV	-40000.00	-5.809731	20	PASS
	Ant3	6885	LV	-40000.00	-5.809731	20	PASS
			NV	-40000.00	-5.809731	20	PASS
			HV	-40000.00	-5.809731	20	PASS
	Ant4	6885	LV	-40000.00	-5.809731	20	PASS

			HV	-40000.00	-5.809731	20	PASS
			NV	-40000.00	-5.809731	20	PASS
	Ant1	6925	NV	-40000.00	-5.776173	20	PASS
			LV	-40000.00	-5.776173	20	PASS
			HV	-40000.00	-5.776173	20	PASS
	Ant2	6925	LV	-40000.00	-5.776173	20	PASS
			HV	-40000.00	-5.776173	20	PASS
			NV	-40000.00	-5.776173	20	PASS
	Ant3	6925	LV	-40000.00	-5.776173	20	PASS
			HV	-40000.00	-5.776173	20	PASS
			NV	-40000.00	-5.776173	20	PASS
	Ant4	6925	NV	-40000.00	-5.776173	20	PASS
			LV	-40000.00	-5.776173	20	PASS
			HV	-40000.00	-5.776173	20	PASS
	Ant1	6965	LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			NV	-40000.00	-5.743001	20	PASS
	Ant2	6965	LV	-40000.00	-5.743001	20	PASS
			HV	-40000.00	-5.743001	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant3	6965	NV	-40000.00	-5.743001	20	PASS
			LV	-40000.00	-5.743001	20	PASS
			HV	-40000.00	-5.743001	20	PASS
	Ant4	6965	NV	-40000.00	-5.743001	20	PASS
			LV	-40000.00	-5.743001	20	PASS
			HV	-40000.00	-5.743001	20	PASS
	Ant1	7085	NV	-40000.00	-5.645730	20	PASS
			LV	-40000.00	-5.645730	20	PASS
			HV	-40000.00	-5.645730	20	PASS
	Ant2	7085	HV	-40000.00	-5.645730	20	PASS
			NV	-40000.00	-5.645730	20	PASS
			LV	-40000.00	-5.645730	20	PASS
	Ant3	7085	HV	-40000.00	-5.645730	20	PASS
			NV	-40000.00	-5.645730	20	PASS
			LV	-40000.00	-5.645730	20	PASS
	Ant4	7085	NV	-40000.00	-5.645730	20	PASS
			LV	-40000.00	-5.645730	20	PASS
			HV	-40000.00	-5.645730	20	PASS
11BE80MIM O	Ant1	5985	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-80000.00	-13.366750	20	PASS
	Ant2	5985	NV	-80000.00	-13.366750	20	PASS
			LV	-80000.00	-13.366750	20	PASS

	Ant3	5985	HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-80000.00	-13.366750	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant4	5985	NV	-80000.00	-13.366750	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant1	6145	HV	-80000.00	-13.018714	20	PASS
			NV	-80000.00	-13.018714	20	PASS
			LV	-80000.00	-13.018714	20	PASS
	Ant2	6145	HV	-80000.00	-13.018714	20	PASS
			NV	-80000.00	-13.018714	20	PASS
			LV	-80000.00	-13.018714	20	PASS
	Ant3	6145	NV	-80000.00	-13.018714	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant4	6145	NV	-80000.00	-13.018714	20	PASS
			LV	-80000.00	-13.018714	20	PASS
			HV	-80000.00	-13.018714	20	PASS
	Ant1	6385	HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant2	6385	HV	-80000.00	-12.529366	20	PASS
			LV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant3	6385	NV	-80000.00	-12.529366	20	PASS
			LV	-80000.00	-12.529366	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant4	6385	NV	-80000.00	-12.529366	20	PASS
			LV	-80000.00	-12.529366	20	PASS
			HV	-80000.00	-12.529366	20	PASS
	Ant1	6465	NV	-80000.00	-12.374323	20	PASS
			LV	-80000.00	-12.374323	20	PASS
			HV	-80000.00	-12.374323	20	PASS
	Ant2	6465	LV	-80000.00	-12.374323	20	PASS
			HV	-80000.00	-12.374323	20	PASS
			NV	-80000.00	-12.374323	20	PASS
	Ant3	6465	NV	-80000.00	-12.374323	20	PASS
			LV	-80000.00	-12.374323	20	PASS
			HV	-80000.00	-12.374323	20	PASS
	Ant4	6465	HV	-80000.00	-12.374323	20	PASS
			NV	-80000.00	-12.374323	20	PASS
			LV	-80000.00	-12.374323	20	PASS

	Ant1	6545	HV	0.00	0.000000	20	PASS
			NV	-80000.00	-12.223071	20	PASS
			LV	-80000.00	-12.223071	20	PASS
	Ant2	6545	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant3	6545	HV	-80000.00	-12.223071	20	PASS
			NV	-80000.00	-12.223071	20	PASS
			LV	-80000.00	-12.223071	20	PASS
	Ant4	6545	HV	-80000.00	-12.223071	20	PASS
			LV	-80000.00	-12.223071	20	PASS
			NV	-80000.00	-12.223071	20	PASS
	Ant1	6625	NV	-80000.00	-12.075472	20	PASS
			LV	-80000.00	-12.075472	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6625	NV	-80000.00	-12.075472	20	PASS
			LV	-80000.00	-12.075472	20	PASS
			HV	-80000.00	-12.075472	20	PASS
	Ant3	6625	NV	-80000.00	-12.075472	20	PASS
			LV	-80000.00	-12.075472	20	PASS
			HV	-80000.00	-12.075472	20	PASS
	Ant4	6625	NV	-80000.00	-12.075472	20	PASS
			LV	-80000.00	-12.075472	20	PASS
			HV	-80000.00	-12.075472	20	PASS
	Ant1	6705	NV	-80000.00	-11.931394	20	PASS
			LV	-80000.00	-11.931394	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6705	NV	-80000.00	-11.931394	20	PASS
			LV	-80000.00	-11.931394	20	PASS
			HV	-80000.00	-11.931394	20	PASS
	Ant3	6705	NV	-80000.00	-11.931394	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-80000.00	-11.931394	20	PASS
	Ant4	6705	NV	-80000.00	-11.931394	20	PASS
			LV	-80000.00	-11.931394	20	PASS
			HV	-80000.00	-11.931394	20	PASS
	Ant1	6785	NV	-80000.00	-11.790715	20	PASS
			LV	-80000.00	-11.790715	20	PASS
			HV	-80000.00	-11.790715	20	PASS
	Ant2	6785	NV	-80000.00	-11.790715	20	PASS
			LV	-80000.00	-11.790715	20	PASS
			HV	-80000.00	-11.790715	20	PASS
	Ant3	6785	NV	-80000.00	-11.790715	20	PASS

			LV	-80000.00	-11.790715	20	PASS
			HV	-80000.00	-11.790715	20	PASS
	Ant4	6785	HV	-80000.00	-11.790715	20	PASS
			LV	0.00	0.000000	20	PASS
			NV	-80000.00	-11.790715	20	PASS
	Ant1	6865	NV	-80000.00	-11.653314	20	PASS
			LV	-80000.00	-11.653314	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6865	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	-80000.00	-11.653314	20	PASS
	Ant3	6865	NV	-80000.00	-11.653314	20	PASS
			LV	-80000.00	-11.653314	20	PASS
			HV	-80000.00	-11.653314	20	PASS
	Ant4	6865	NV	-80000.00	-11.653314	20	PASS
			LV	-80000.00	-11.653314	20	PASS
			HV	-80000.00	-11.653314	20	PASS
	Ant1	6945	LV	-80000.00	-11.519078	20	PASS
			HV	-80000.00	-11.519078	20	PASS
			NV	-80000.00	-11.519078	20	PASS
	Ant2	6945	NV	-80000.00	-11.519078	20	PASS
			LV	-80000.00	-11.519078	20	PASS
			HV	-80000.00	-11.519078	20	PASS
	Ant3	6945	NV	-80000.00	-11.519078	20	PASS
			LV	-80000.00	-11.519078	20	PASS
			HV	-80000.00	-11.519078	20	PASS
	Ant4	6945	NV	-80000.00	-11.519078	20	PASS
			LV	-80000.00	-11.519078	20	PASS
			HV	-80000.00	-11.519078	20	PASS
	Ant1	7025	NV	-80000.00	-11.387900	20	PASS
			LV	-80000.00	-11.387900	20	PASS
			HV	-80000.00	-11.387900	20	PASS
	Ant2	7025	NV	-80000.00	-11.387900	20	PASS
			LV	-80000.00	-11.387900	20	PASS
			HV	-80000.00	-11.387900	20	PASS
	Ant3	7025	LV	-80000.00	-11.387900	20	PASS
			HV	-80000.00	-11.387900	20	PASS
			NV	-80000.00	-11.387900	20	PASS
	Ant4	7025	NV	-80000.00	-11.387900	20	PASS
			LV	-80000.00	-11.387900	20	PASS
			HV	-80000.00	-11.387900	20	PASS
11BE160MI MO	Ant1	6025	HV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS

	Ant2	6025	LV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant3	6025	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant4	6025	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant1	6185	NV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
	Ant2	6185	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant3	6185	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant4	6185	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant1	6345	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6345	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant3	6345	NV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
	Ant4	6345	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant1	6505	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6505	LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant3	6505	NV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS

	Ant4	6505	HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant1	6665	HV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
	Ant2	6665	HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant3	6665	HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant4	6665	LV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant1	6825	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6825	LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant3	6825	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant4	6825	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant1	6985	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6985	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant3	6985	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant4	6985	NV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
11BE320MI MO	Ant1	6105	NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
		6585	NV	0.00	0.000000	20	PASS

			LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
	Ant2	6585	HV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
			LV	0.00	0.000000	20	PASS
	Ant3	6585	NV	-96000.00	-14.578588	20	PASS
			LV	-128000.00	-19.438117	20	PASS
			HV	-64000.00	-9.719058	20	PASS
	Ant4	6585	LV	0.00	0.000000	20	PASS
			HV	0.00	0.000000	20	PASS
			NV	0.00	0.000000	20	PASS
	Ant1	6905	NV	0.00	0.000000	20	PASS

3.6 Contention Based Protocol Measurement

3.6.1 Test Limit

Unlicensed indoor low power device must detect co-channel radio frequency power that is at least -62dBm (The threshold is referenced to a 0dBi antenna gain.) or low.

Indoor low power device must detect an AWGN signal with 90% (or better) level of certainty.

3.6.2 Test Procedure

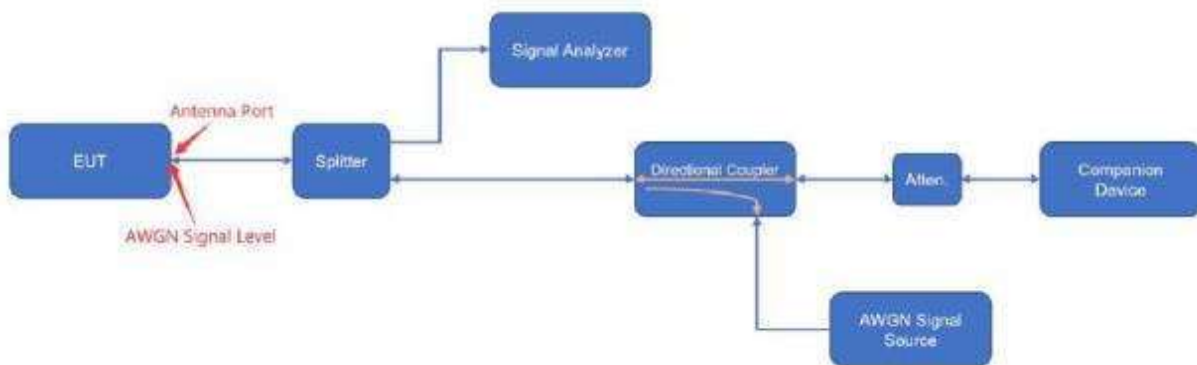
Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

Test was performed in accordance with method of KDB 987594 D02v01- Section I

3.6.3 Test Setting

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate a 10 MHz-wide AWGN signal. Use Table 1 of KDB 987594 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level. Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in below figure.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

3.6.4 Test Setup



3.6.5 Test Result

Test Channel	Bandwidth (MHz)	Freq. (MHz)	Interference Freq.(MHz)	Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)	Antenna Gain (dBi)	AWGN Signal Level (at Antenna Port) (dBm)	Detected Number	Detection Probability (%)	Limit (%)	Test Result
Operation Band: U-NII 5										
01	20	5955	5955	-72.62	1.16	-70.70	9	90	90	Pass
07	320	6105	5950	-73.39	1.16	-71.47	10	100	90	Pass
07	320	6105	6105	-74.32	1.16	-72.40	9	90	90	Pass
07	320	6105	6260	-73.37	1.16	-71.45	9	90	90	Pass
Operation Band: U-NII 6										
101	20	6455	6455	-68.82	1.16	-66.90	9	90	90	Pass
103	80	6465	6430	-68.97	1.16	-67.05	9	90	90	Pass
103	80	6465	6465	-67.99	1.16	-66.07	9	90	90	Pass
103	80	6465	6500	-66.98	1.16	-65.06	9	90	90	Pass
Operation Band: U-NII 7										
149	20	6695	6695	-72.56	1.16	-70.64	10	100	90	Pass
151	160	6665	6590	-73.93	1.16	-72.01	9	90	90	Pass
151	160	6665	6665	-73.26	1.16	-71.34	10	100	90	Pass
151	160	6665	6740	-75.05	1.16	-73.13	10	100	90	Pass
Operation Band: U-NII 8										
213	20	7015	7015	-73.33	1.16	-71.41	9	90	90	Pass
199	320	6905	6910	-69.67	1.16	-67.75	9	90	90	Pass
199	320	6905	6905	-68.88	1.16	-66.96	9	90	90	Pass
199	320	6905	6980	-72.36	1.16	-70.44	9	90	90	Pass

Note 1: Incumbent Signal Level = AWGN Signal Level (at Antenna port) – Antenna Gain, it's equivalent to incumbent signal level with reference to a 0dBi antenna gain, and this power level is less than or equal to the detection threshold (-62 dBm).

Note 2: AWGN Signal Level at antenna port is the actual injected level at antenna port

Note 3: Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

If transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G_1 \text{ phi}/10} + 10^{G_2 \text{ phi}/10} + \dots + 10^{G_N \text{ phi}/10})/N_{\text{ANT}} + (10^{G_1 \text{ theta}/10} + 10^{G_2 \text{ theta}/10} + \dots + 10^{G_N \text{ theta}/10})/N_{\text{ANT}}]$ dBi

Directional gain = 1.16dBi

Test Channel	Bandwidth (MHz)	Freq. (MHz)	Interference Freq. (MHz)	AWGN Signal Level (at Antenna Port) (dBm)	EUT Status
Operation Band: U-NII 5					
01	20	5955	5955	-70.70	Stop transmission
				-72.34	Stop but with Beacon signal
07	320	6105	5950	-71.47	Stop transmission
				-73.26	Stop but with Beacon signal
07	320	6105	6105	-72.40	Stop transmission
				-75.67	Stop but with Beacon signal
07	320	6105	6260	-71.45	Stop transmission
				-72.34	Stop but with Beacon signal
Operation Band: U-NII 6					
101	20	6455	6455	-66.90	Stop transmission
				-67.99	Stop but with Beacon signal
103	80	6465	6430	-67.05	Stop transmission
				-70.71	Stop but with Beacon signal
103	80	6465	6465	-66.07	Stop transmission
				-67.81	Stop but with Beacon signal
103	80	6465	6500	-65.06	Stop transmission
				-68.77	Stop but with Beacon signal
Operation Band: U-NII 7					
149	20	6695	6695	-70.64	Stop transmission
				-72.32	Stop but with Beacon signal
151	160	6665	6590	-72.01	Stop transmission
				-73.34	Stop but with Beacon signal
151	160	6665	6665	-71.34	Stop transmission
				-72.33	Stop but with Beacon signal
151	160	6665	6740	-73.13	Stop transmission
				-75.55	Stop but with Beacon signal

Operation Band: U-NII 8					
213	20	7015	7015	-71.41	Stop transmission
				-73.33	Stop but with Beacon signal
199	320	6905	6910	-67.75	Stop transmission
				-71.17	Stop but with Beacon signal
199	320	6905	6905	-66.96	Stop transmission
				-68.09	Stop but with Beacon signal
199	320	6905	6980	-70.44	Stop transmission
				-73.34	Stop but with Beacon signal



AWGN Signal Level (at Antenna Port) Calibration Plots (NII-6 Band)

802.11be-HE20 / CH101



802.11be-HE80 / CH103 (Low Edge)



802.11be-HE80 / CH103 (Middle)



802.11be-HE80 / CH103 (High Edge)



AWGN Signal Level (at Antenna Port) Calibration Plots (NII-7 Band)

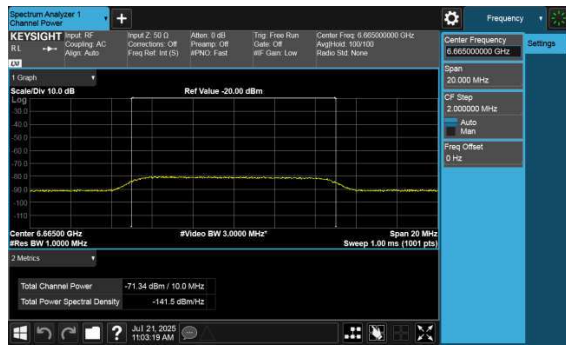
802.11be-HE20 / CH149



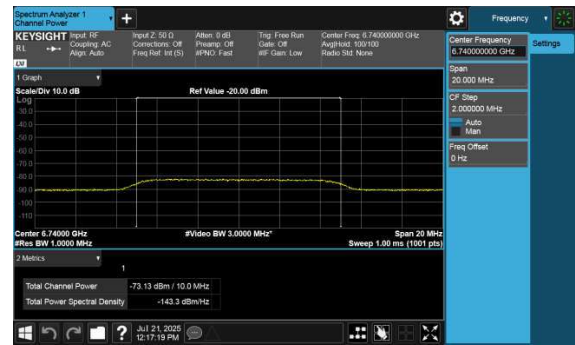
802.11be-HE160 / CH143 (Low Edge)



802.11be-HE160 / CH143 (Middle)



802.11be-HE160 / CH143 (High Edge)



AWGN Signal Level (at Antenna Port) Calibration Plots (NII-8 Band)

802.11be-HE20 / CH213



802.11be-HE320 / CH191 (Low Edge)



802.11be-HE320 / CH191 (Middle)



802.11be-HE160 / CH191 (High Edge)



EUT TX stop

802.11be-HE20 / CH01



802.11be-HE320 / CH31



802.11be-HE20 / CH101



802.11be-HE80 / CH103



802.11be-HE20 / CH149



802.11be-HE160 / CH143



802.11be-HE20 / CH213



802.11be-HE320 / CH191



3.7 Radiated Spurious Emission Measurement

3.7.1 Test Limit

For 15.407(b)(6) requirement

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to 987594 D02 U-NII 6GHz EMC Measurement v01 clause G

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

3.7.2 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ :Test ☐ :No Test	

3.7.3 Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize