



11AX20MIMO_Ant1_5745



11AX20MIMO_Ant2_5745



11AX20MIMO_Ant1_5785

CTC Laboratories, Inc.

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TRF No: CTC-TR-062_A2



11AX20MIMO_Ant2_5785



11AX20MIMO_Ant1_5825



11AX20MIMO_Ant2_5825

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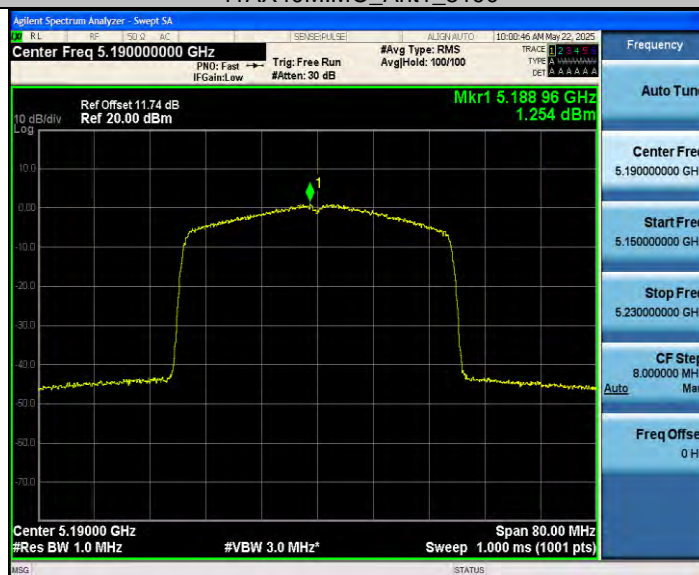
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11AX40MIMO_Ant1_5190



11AX40MIMO_Ant2_5190



11AX40MIMO_Ant1_5230

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11AX40MIMO_Ant2_5230



11AX40MIMO_Ant1_5270



11AX40MIMO_Ant2_5270

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11AX40MIMO_Ant2_5510



11AX40MIMO_Ant1_5550



11AX40MIMO_Ant2_5550

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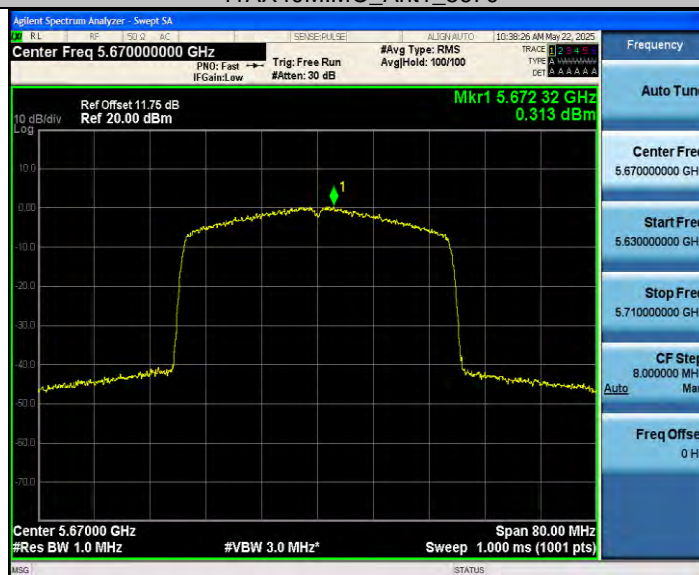
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11AX40MIMO_Ant1_5670



11AX40MIMO_Ant2_5670



11AX40MIMO_Ant1_5755

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11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795



11AX40MIMO_Ant2_5795

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11AX80MIMO_Ant1_5210



11AX80MIMO_Ant2_5210



11AX80MIMO_Ant1_5290

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11AX80MIMO_Ant2_5290



11AX80MIMO_Ant1_5530



11AX80MIMO_Ant2_5530

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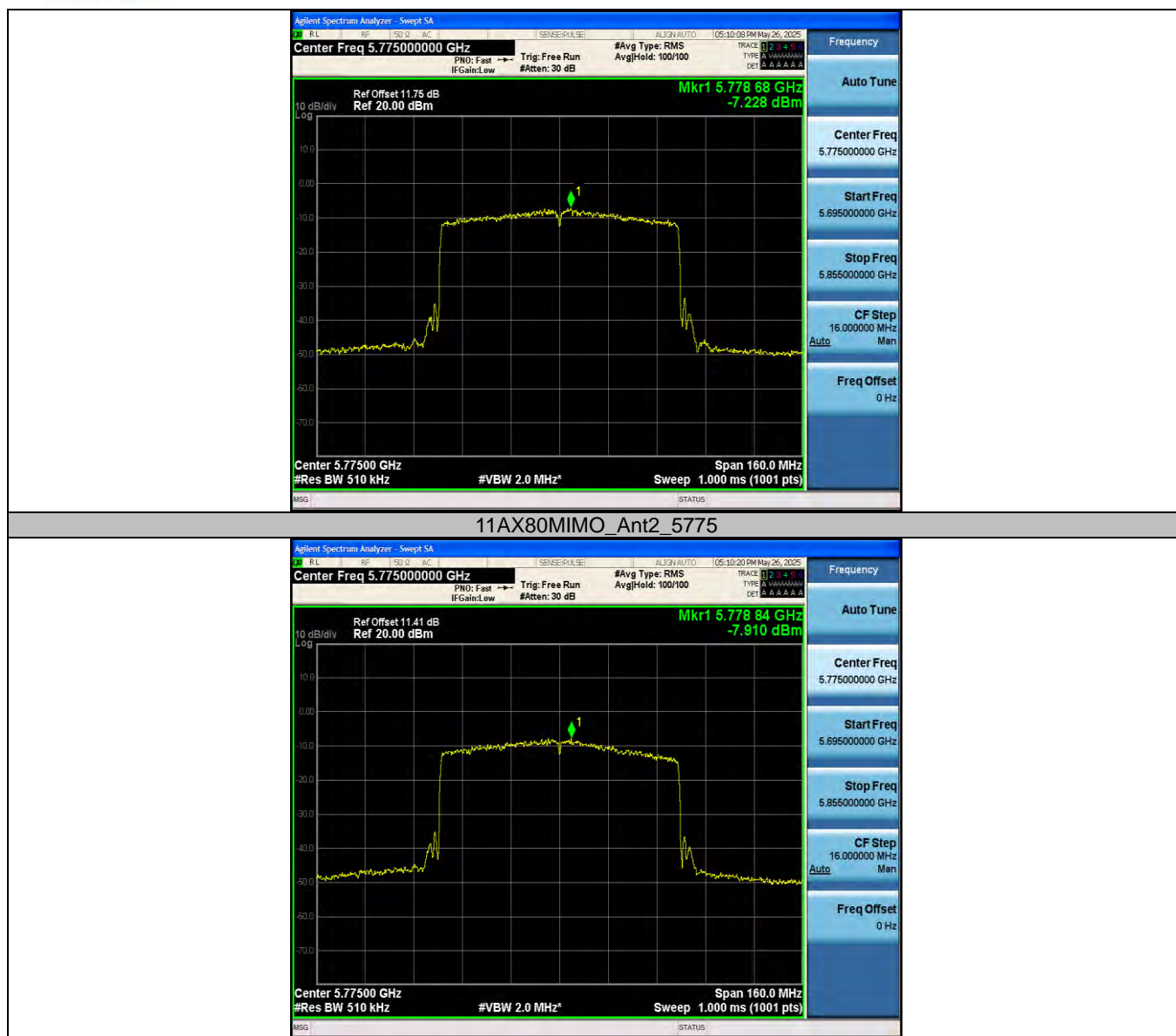


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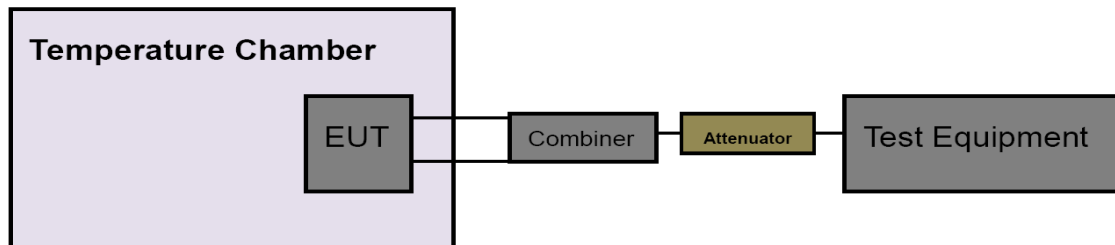
3.7. Frequency Stability

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(g) / RSS-Gen 6.11

Test Item	Limit	Frequency Range (MHz)
Frequency Stability	Specified in the user's manual, the transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)	5150~5250
		5250~5350
		5500~5700
		5725~5850

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 8MHz, VBW=8MHz with peak detector and max hold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 4.5V to 5.5V percent of the nominal value.
- (6) Extreme temperature is 0°C ~40°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Freq(MHz)	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
Bandwidth 20MHz	Ant1	5180	NV	NT	-15000.00	-2.895753	20	PASS
			LV	NT	-15000.00	-2.895753	20	PASS
			HV	NT	-15000.00	-2.895753	20	PASS
	Ant2	5180	NV	NT	-15000.00	-2.895753	20	PASS
			LV	NT	-15000.00	-2.895753	20	PASS
			HV	NT	-15000.00	-2.895753	20	PASS
	Ant1	5200	NV	NT	-15500.00	-2.980769	20	PASS
			LV	NT	-15000.00	-2.884615	20	PASS
			HV	NT	-15500.00	-2.980769	20	PASS
	Ant2	5200	NV	NT	-15500.00	-2.980769	20	PASS
			LV	NT	-15500.00	-2.980769	20	PASS
			HV	NT	-15500.00	-2.980769	20	PASS
	Ant1	5240	NV	NT	-15500.00	-2.958015	20	PASS
			LV	NT	-15500.00	-2.958015	20	PASS
			HV	NT	-15500.00	-2.958015	20	PASS
	Ant2	5240	NV	NT	-15500.00	-2.958015	20	PASS
			LV	NT	-15500.00	-2.958015	20	PASS
			HV	NT	-15500.00	-2.958015	20	PASS
	Ant1	5260	NV	NT	-16000.00	-3.041825	20	PASS
			LV	NT	-16000.00	-3.041825	20	PASS
			HV	NT	-15500.00	-2.946768	20	PASS
	Ant2	5260	NV	NT	-16000.00	-3.041825	20	PASS
			LV	NT	-15500.00	-2.946768	20	PASS
			HV	NT	-16000.00	-3.041825	20	PASS
	Ant1	5280	NV	NT	-16000.00	-3.030303	20	PASS
			LV	NT	-16000.00	-3.030303	20	PASS
			HV	NT	-16000.00	-3.030303	20	PASS
	Ant2	5280	NV	NT	-16000.00	-3.030303	20	PASS
			LV	NT	-16000.00	-3.030303	20	PASS
			HV	NT	-16000.00	-3.030303	20	PASS
	Ant1	5320	NV	NT	-16000.00	-3.007519	20	PASS
			LV	NT	-16000.00	-3.007519	20	PASS
			HV	NT	-16000.00	-3.007519	20	PASS
	Ant2	5320	NV	NT	-16000.00	-3.007519	20	PASS
			LV	NT	-16000.00	-3.007519	20	PASS
			HV	NT	-16000.00	-3.007519	20	PASS
	Ant1	5500	NV	NT	-16500.00	-3.000000	20	PASS
			LV	NT	-16500.00	-3.000000	20	PASS
			HV	NT	-16500.00	-3.000000	20	PASS
	Ant2	5500	NV	NT	-17000.00	-3.090909	20	PASS
			LV	NT	-16500.00	-3.000000	20	PASS
			HV	NT	-17000.00	-3.090909	20	PASS
	Ant1	5580	NV	NT	-17000.00	-3.046595	20	PASS
			LV	NT	-17000.00	-3.046595	20	PASS
			HV	NT	-17000.00	-3.046595	20	PASS
	Ant2	5580	NV	NT	-16500.00	-2.956989	20	PASS
			LV	NT	-16500.00	-2.956989	20	PASS
			HV	NT	-17000.00	-3.046595	20	PASS
	Ant1	5700	NV	NT	-17000.00	-2.982456	20	PASS
			LV	NT	-17000.00	-2.982456	20	PASS
			HV	NT	-17000.00	-2.982456	20	PASS
	Ant2	5700	NV	NT	-17500.00	-3.070175	20	PASS
			LV	NT	-17500.00	-3.070175	20	PASS
			HV	NT	-17500.00	-3.070175	20	PASS
	Ant1	5745	NV	NT	-17000.00	-2.959095	20	PASS
			LV	NT	-17000.00	-2.959095	20	PASS
			HV	NT	-17000.00	-2.959095	20	PASS
	Ant2	5745	NV	NT	-17000.00	-2.959095	20	PASS
			LV	NT	-16500.00	-2.872063	20	PASS
			HV	NT	-17000.00	-2.959095	20	PASS

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	Ant1	5785	NV	NT	-17000.00	-2.938634	20	PASS
			LV	NT	-17000.00	-2.938634	20	PASS
			HV	NT	-17000.00	-2.938634	20	PASS
	Ant2	5785	NV	NT	-17000.00	-2.938634	20	PASS
			LV	NT	-17000.00	-2.938634	20	PASS
			HV	NT	-17000.00	-2.938634	20	PASS
	Ant1	5825	NV	NT	-16500.00	-2.832618	20	PASS
			LV	NT	-17000.00	-2.918455	20	PASS
			HV	NT	-16500.00	-2.832618	20	PASS
	Ant2	5825	NV	NT	-17000.00	-2.918455	20	PASS
			LV	NT	-17000.00	-2.918455	20	PASS
			HV	NT	-16500.00	-2.832618	20	PASS
Bandwidth 40MHz	Ant1	5190	NV	NT	-14500.00	-2.793834	20	PASS
			LV	NT	-15000.00	-2.890173	20	PASS
			HV	NT	-14500.00	-2.793834	20	PASS
	Ant2	5190	NV	NT	-15000.00	-2.890173	20	PASS
			LV	NT	-15000.00	-2.890173	20	PASS
			HV	NT	-15000.00	-2.890173	20	PASS
	Ant1	5230	NV	NT	-15000.00	-2.868069	20	PASS
			LV	NT	-15000.00	-2.868069	20	PASS
			HV	NT	-15000.00	-2.868069	20	PASS
	Ant2	5230	NV	NT	-15000.00	-2.868069	20	PASS
			LV	NT	-15000.00	-2.868069	20	PASS
			HV	NT	-15000.00	-2.868069	20	PASS
	Ant1	5270	NV	NT	-15000.00	-2.846300	20	PASS
			LV	NT	-15000.00	-2.846300	20	PASS
			HV	NT	-15000.00	-2.846300	20	PASS
	Ant2	5270	NV	NT	-15500.00	-2.941176	20	PASS
			LV	NT	-15500.00	-2.941176	20	PASS
			HV	NT	-15000.00	-2.846300	20	PASS
	Ant1	5310	NV	NT	-15000.00	-2.824859	20	PASS
			LV	NT	-15000.00	-2.824859	20	PASS
			HV	NT	-15500.00	-2.919021	20	PASS
	Ant2	5310	NV	NT	-15000.00	-2.824859	20	PASS
			LV	NT	-15000.00	-2.824859	20	PASS
			HV	NT	-15500.00	-2.919021	20	PASS
	Ant1	5510	NV	NT	-15500.00	-2.813067	20	PASS
			LV	NT	-15500.00	-2.813067	20	PASS
			HV	NT	-15500.00	-2.813067	20	PASS
	Ant2	5510	NV	NT	-15500.00	-2.813067	20	PASS
			LV	NT	-15500.00	-2.813067	20	PASS
			HV	NT	-15500.00	-2.813067	20	PASS
	Ant1	5550	NV	NT	-15000.00	-2.702703	20	PASS
			LV	NT	-15000.00	-2.702703	20	PASS
			HV	NT	-15500.00	-2.792793	20	PASS
	Ant2	5550	NV	NT	-15500.00	-2.792793	20	PASS
			LV	NT	-15500.00	-2.792793	20	PASS
			HV	NT	-15500.00	-2.792793	20	PASS
	Ant1	5670	NV	NT	-16000.00	-2.821869	20	PASS
			LV	NT	-16000.00	-2.821869	20	PASS
			HV	NT	-16000.00	-2.821869	20	PASS
	Ant2	5670	NV	NT	-16500.00	-2.910053	20	PASS
			LV	NT	-16500.00	-2.910053	20	PASS
			HV	NT	-16000.00	-2.821869	20	PASS
	Ant1	5755	NV	NT	-16000.00	-2.780191	20	PASS
			LV	NT	-16500.00	-2.867072	20	PASS
			HV	NT	-16500.00	-2.867072	20	PASS
	Ant2	5755	NV	NT	-16500.00	-2.867072	20	PASS
			LV	NT	-16500.00	-2.867072	20	PASS
			HV	NT	-16500.00	-2.867072	20	PASS
	Ant1	5795	NV	NT	-16000.00	-2.761001	20	PASS
			LV	NT	-16500.00	-2.847282	20	PASS
			HV	NT	-16500.00	-2.847282	20	PASS
	Ant2	5795	NV	NT	-16500.00	-2.847282	20	PASS
			LV	NT	-16500.00	-2.847282	20	PASS

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Bandwidth 80MHz	Ant1	5210	HV	NT	-16500.00	-2.847282	20	PASS
			NV	NT	-15000.00	-2.879079	20	PASS
			LV	NT	-15000.00	-2.879079	20	PASS
			HV	NT	-15000.00	-2.879079	20	PASS
	Ant2	5210	NV	NT	-15000.00	-2.879079	20	PASS
			LV	NT	-15000.00	-2.879079	20	PASS
			HV	NT	-15000.00	-2.879079	20	PASS
			NV	NT	-15000.00	-2.835539	20	PASS
	Ant1	5290	LV	NT	-15000.00	-2.835539	20	PASS
			HV	NT	-15000.00	-2.835539	20	PASS
			NV	NT	-15500.00	-2.930057	20	PASS
			LV	NT	-15500.00	-2.930057	20	PASS
	Ant2	5290	HV	NT	-15500.00	-2.930057	20	PASS
			NV	NT	-16000.00	-2.893309	20	PASS
			LV	NT	-16000.00	-2.893309	20	PASS
			HV	NT	-16000.00	-2.893309	20	PASS
	Ant1	5530	NV	NT	-16000.00	-2.893309	20	PASS
			LV	NT	-16000.00	-2.893309	20	PASS
			HV	NT	-16000.00	-2.893309	20	PASS
			NV	NT	-16000.00	-2.852050	20	PASS
	Ant2	5530	LV	NT	-16000.00	-2.852050	20	PASS
			HV	NT	-16000.00	-2.852050	20	PASS
			NV	NT	-16000.00	-2.852050	20	PASS
			LV	NT	-16000.00	-2.852050	20	PASS
	Ant1	5610	HV	NT	-16000.00	-2.941176	20	PASS
			NV	NT	-15500.00	-2.683983	20	PASS
			LV	NT	-16000.00	-2.770563	20	PASS
			HV	NT	-16000.00	-2.770563	20	PASS
	Ant2	5610	NV	NT	-16500.00	-2.857143	20	PASS
			LV	NT	-16500.00	-2.857143	20	PASS
			HV	NT	-16500.00	-2.857143	20	PASS
			NV	NT	-16500.00	-2.857143	20	PASS

Temperature								
Test Mode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Bandwidth 20MHz	Ant1	5180	NV	0	-15500.00	-2.992278	20	PASS
			NV	10	-15000.00	-2.895753	20	PASS
			NV	20	-15000.00	-2.895753	20	PASS
			NV	30	-15000.00	-2.895753	20	PASS
			NV	40	-15500.00	-2.992278	20	PASS
	Ant2	5180	NV	0	-15000.00	-2.895753	20	PASS
			NV	10	-15500.00	-2.992278	20	PASS
			NV	20	-15000.00	-2.895753	20	PASS
			NV	30	-15000.00	-2.895753	20	PASS
			NV	40	-15000.00	-2.895753	20	PASS
	Ant1	5200	NV	0	-15500.00	-2.980769	20	PASS
			NV	10	-15500.00	-2.980769	20	PASS
			NV	20	-15500.00	-2.980769	20	PASS
			NV	30	-15000.00	-2.884615	20	PASS
			NV	40	-15000.00	-2.884615	20	PASS
	Ant2	5200	NV	0	-15000.00	-2.884615	20	PASS
			NV	10	-15000.00	-2.884615	20	PASS
			NV	20	-15500.00	-2.980769	20	PASS
			NV	30	-15000.00	-2.884615	20	PASS
			NV	40	-15500.00	-2.980769	20	PASS
	Ant1	5240	NV	0	-15500.00	-2.958015	20	PASS
			NV	10	-15500.00	-2.958015	20	PASS
			NV	20	-15500.00	-2.958015	20	PASS
			NV	30	-15500.00	-2.958015	20	PASS
			NV	40	-15500.00	-2.958015	20	PASS
	Ant2	5240	NV	0	-15500.00	-2.958015	20	PASS
			NV	10	-15500.00	-2.958015	20	PASS
			NV	20	-15500.00	-2.958015	20	PASS
			NV	30	-15500.00	-2.958015	20	PASS
			NV	40	-15500.00	-2.958015	20	PASS

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	Ant1	5260	NV	0	-16000.00	-3.041825	20	PASS
			NV	10	-16000.00	-3.041825	20	PASS
			NV	20	-16000.00	-3.041825	20	PASS
			NV	30	-16000.00	-3.041825	20	PASS
			NV	40	-16000.00	-3.041825	20	PASS
	Ant2	5260	NV	0	-16000.00	-3.041825	20	PASS
			NV	10	-16000.00	-3.041825	20	PASS
			NV	20	-16000.00	-3.041825	20	PASS
			NV	30	-16000.00	-3.041825	20	PASS
			NV	40	-15500.00	-2.946768	20	PASS
	Ant1	5280	NV	0	-16000.00	-3.030303	20	PASS
			NV	10	-16000.00	-3.030303	20	PASS
			NV	20	-16000.00	-3.030303	20	PASS
			NV	30	-16000.00	-3.030303	20	PASS
			NV	40	-16000.00	-3.030303	20	PASS
	Ant2	5280	NV	0	-16000.00	-3.030303	20	PASS
			NV	10	-16000.00	-3.030303	20	PASS
			NV	20	-16000.00	-3.030303	20	PASS
			NV	30	-16000.00	-3.030303	20	PASS
			NV	40	-16000.00	-3.030303	20	PASS
	Ant1	5320	NV	0	-16000.00	-3.007519	20	PASS
			NV	10	-16000.00	-3.007519	20	PASS
			NV	20	-16000.00	-3.007519	20	PASS
			NV	30	-16000.00	-3.007519	20	PASS
			NV	40	-16000.00	-3.007519	20	PASS
	Ant2	5320	NV	0	-16000.00	-3.007519	20	PASS
			NV	10	-16000.00	-3.007519	20	PASS
			NV	20	-16000.00	-3.007519	20	PASS
			NV	30	-16000.00	-3.007519	20	PASS
			NV	40	-16000.00	-3.007519	20	PASS
	Ant1	5500	NV	0	-16500.00	-3.000000	20	PASS
			NV	10	-16500.00	-3.000000	20	PASS
			NV	20	-16500.00	-3.000000	20	PASS
			NV	30	-16500.00	-3.000000	20	PASS
			NV	40	-16500.00	-3.000000	20	PASS
	Ant2	5500	NV	0	-16500.00	-3.000000	20	PASS
			NV	10	-16500.00	-3.000000	20	PASS
			NV	20	-17000.00	-3.090909	20	PASS
			NV	30	-17000.00	-3.090909	20	PASS
			NV	40	-17000.00	-3.090909	20	PASS
	Ant1	5580	NV	0	-17000.00	-3.046595	20	PASS
			NV	10	-17000.00	-3.046595	20	PASS
			NV	20	-17000.00	-3.046595	20	PASS
			NV	30	-17000.00	-3.046595	20	PASS
			NV	40	-16500.00	-2.956989	20	PASS
	Ant2	5580	NV	0	-17000.00	-3.046595	20	PASS
			NV	10	-16500.00	-2.956989	20	PASS
			NV	20	-16500.00	-2.956989	20	PASS
			NV	30	-17000.00	-3.046595	20	PASS
			NV	40	-17000.00	-3.046595	20	PASS
	Ant1	5700	NV	0	-17500.00	-3.070175	20	PASS
			NV	10	-17500.00	-3.070175	20	PASS
			NV	20	-17500.00	-3.070175	20	PASS
			NV	30	-17500.00	-3.070175	20	PASS
			NV	40	-17500.00	-3.070175	20	PASS
	Ant2	5700	NV	0	-17500.00	-3.070175	20	PASS
			NV	10	-17500.00	-3.070175	20	PASS
			NV	20	-18000.00	-3.157895	20	PASS
			NV	30	-17500.00	-3.070175	20	PASS
			NV	40	-17500.00	-3.070175	20	PASS
	Ant1	5745	NV	0	-17000.00	-2.959095	20	PASS
			NV	10	-17000.00	-2.959095	20	PASS
			NV	20	-16500.00	-2.872063	20	PASS
			NV	30	-17000.00	-2.959095	20	PASS
			NV	40	-17000.00	-2.959095	20	PASS

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TRF No: CTC-TR-062_A2



	Ant2	5745	NV	0	-16500.00	-2.872063	20	PASS
			NV	10	-17000.00	-2.959095	20	PASS
			NV	20	-17000.00	-2.959095	20	PASS
			NV	30	-17000.00	-2.959095	20	PASS
			NV	40	-16500.00	-2.872063	20	PASS
	Ant1	5785	NV	0	-16500.00	-2.852204	20	PASS
			NV	10	-17000.00	-2.938634	20	PASS
			NV	20	-17000.00	-2.938634	20	PASS
			NV	30	-17000.00	-2.938634	20	PASS
			NV	40	-17000.00	-2.938634	20	PASS
	Ant2	5785	NV	0	-17000.00	-2.938634	20	PASS
			NV	10	-17000.00	-2.938634	20	PASS
			NV	20	-17000.00	-2.938634	20	PASS
			NV	30	-17000.00	-2.938634	20	PASS
			NV	40	-17000.00	-2.938634	20	PASS
	Ant1	5825	NV	0	-17000.00	-2.918455	20	PASS
			NV	10	-17000.00	-2.918455	20	PASS
			NV	20	-17000.00	-2.918455	20	PASS
			NV	30	-17000.00	-2.918455	20	PASS
			NV	40	-17000.00	-2.918455	20	PASS
	Ant2	5825	NV	0	-17000.00	-2.918455	20	PASS
			NV	10	-17000.00	-2.918455	20	PASS
			NV	20	-17000.00	-2.918455	20	PASS
			NV	30	-17000.00	-2.918455	20	PASS
			NV	40	-16500.00	-2.832618	20	PASS
Bandwidth 40MHz	Ant1	5190	NV	0	-15000.00	-2.890173	20	PASS
			NV	10	-15000.00	-2.890173	20	PASS
			NV	20	-15000.00	-2.890173	20	PASS
			NV	30	-15000.00	-2.890173	20	PASS
			NV	40	-15000.00	-2.890173	20	PASS
	Ant2	5190	NV	0	-15000.00	-2.890173	20	PASS
			NV	10	-15000.00	-2.890173	20	PASS
			NV	20	-15000.00	-2.890173	20	PASS
			NV	30	-15000.00	-2.890173	20	PASS
			NV	40	-15000.00	-2.890173	20	PASS
	Ant1	5230	NV	0	-15000.00	-2.868069	20	PASS
			NV	10	-15000.00	-2.868069	20	PASS
			NV	20	-15000.00	-2.868069	20	PASS
			NV	30	-15000.00	-2.868069	20	PASS
			NV	40	-15000.00	-2.868069	20	PASS
	Ant2	5230	NV	0	-15000.00	-2.868069	20	PASS
			NV	10	-15000.00	-2.868069	20	PASS
			NV	20	-15000.00	-2.868069	20	PASS
			NV	30	-15000.00	-2.868069	20	PASS
			NV	40	-15000.00	-2.868069	20	PASS
	Ant1	5270	NV	0	-15000.00	-2.846300	20	PASS
			NV	10	-15000.00	-2.846300	20	PASS
			NV	20	-15000.00	-2.846300	20	PASS
			NV	30	-15000.00	-2.846300	20	PASS
			NV	40	-15000.00	-2.846300	20	PASS
	Ant2	5270	NV	0	-15000.00	-2.846300	20	PASS
			NV	10	-15000.00	-2.846300	20	PASS
			NV	20	-15000.00	-2.846300	20	PASS
			NV	30	-15000.00	-2.846300	20	PASS
			NV	40	-15500.00	-2.941176	20	PASS
	Ant1	5310	NV	0	-15000.00	-2.824859	20	PASS
			NV	10	-15000.00	-2.824859	20	PASS
			NV	20	-15000.00	-2.824859	20	PASS
			NV	30	-15000.00	-2.824859	20	PASS
			NV	40	-15000.00	-2.824859	20	PASS
	Ant2	5310	NV	0	-15000.00	-2.824859	20	PASS
			NV	10	-15000.00	-2.824859	20	PASS
			NV	20	-15000.00	-2.824859	20	PASS
			NV	30	-15000.00	-2.824859	20	PASS
			NV	40	-15000.00	-2.824859	20	PASS

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	Ant1	5510	NV	0	-15500.00	-2.813067	20	PASS
			NV	10	-15500.00	-2.813067	20	PASS
			NV	20	-15500.00	-2.813067	20	PASS
			NV	30	-15500.00	-2.813067	20	PASS
			NV	40	-15500.00	-2.813067	20	PASS
	Ant2	5510	NV	0	-15500.00	-2.813067	20	PASS
			NV	10	-15500.00	-2.813067	20	PASS
			NV	20	-15500.00	-2.813067	20	PASS
			NV	30	-15500.00	-2.813067	20	PASS
			NV	40	-15500.00	-2.813067	20	PASS
	Ant1	5550	NV	0	-15500.00	-2.792793	20	PASS
			NV	10	-15500.00	-2.792793	20	PASS
			NV	20	-15500.00	-2.792793	20	PASS
			NV	30	-15500.00	-2.792793	20	PASS
			NV	40	-15500.00	-2.792793	20	PASS
	Ant2	5550	NV	0	-16000.00	-2.882883	20	PASS
			NV	10	-15500.00	-2.792793	20	PASS
			NV	20	-15500.00	-2.792793	20	PASS
			NV	30	-15500.00	-2.792793	20	PASS
			NV	40	-15500.00	-2.792793	20	PASS
	Ant1	5670	NV	0	-16000.00	-2.821869	20	PASS
			NV	10	-16500.00	-2.910053	20	PASS
			NV	20	-16000.00	-2.821869	20	PASS
			NV	30	-16500.00	-2.910053	20	PASS
			NV	40	-16000.00	-2.821869	20	PASS
	Ant2	5670	NV	0	-16500.00	-2.910053	20	PASS
			NV	10	-16000.00	-2.821869	20	PASS
			NV	20	-16500.00	-2.910053	20	PASS
			NV	30	-16500.00	-2.910053	20	PASS
			NV	40	-16500.00	-2.910053	20	PASS
	Ant1	5755	NV	0	-16500.00	-2.867072	20	PASS
			NV	10	-16500.00	-2.867072	20	PASS
			NV	20	-16500.00	-2.867072	20	PASS
			NV	30	-16000.00	-2.780191	20	PASS
			NV	40	-16500.00	-2.867072	20	PASS
	Ant2	5755	NV	0	-16500.00	-2.867072	20	PASS
			NV	10	-16500.00	-2.867072	20	PASS
			NV	20	-16500.00	-2.867072	20	PASS
			NV	30	-16500.00	-2.867072	20	PASS
			NV	40	-16500.00	-2.867072	20	PASS
	Ant1	5795	NV	0	-16500.00	-2.847282	20	PASS
			NV	10	-16500.00	-2.847282	20	PASS
			NV	20	-16500.00	-2.847282	20	PASS
			NV	30	-16500.00	-2.847282	20	PASS
			NV	40	-16500.00	-2.847282	20	PASS
	Ant2	5795	NV	0	-16500.00	-2.847282	20	PASS
			NV	10	-16500.00	-2.847282	20	PASS
			NV	20	-16500.00	-2.847282	20	PASS
			NV	30	-16500.00	-2.847282	20	PASS
			NV	40	-16500.00	-2.847282	20	PASS
Bandwidth 80MHz	Ant1	5210	NV	0	-15000.00	-2.879079	20	PASS
			NV	10	-15000.00	-2.879079	20	PASS
			NV	20	-15000.00	-2.879079	20	PASS
			NV	30	-15000.00	-2.879079	20	PASS
			NV	40	-15000.00	-2.879079	20	PASS
	Ant2	5210	NV	0	-15500.00	-2.975048	20	PASS
			NV	10	-15000.00	-2.879079	20	PASS
			NV	20	-15000.00	-2.879079	20	PASS
			NV	30	-15500.00	-2.975048	20	PASS
			NV	40	-15000.00	-2.879079	20	PASS
	Ant1	5290	NV	0	-15500.00	-2.930057	20	PASS
			NV	10	-15000.00	-2.835539	20	PASS
			NV	20	-15000.00	-2.835539	20	PASS
			NV	30	-15500.00	-2.930057	20	PASS
			NV	40	-15500.00	-2.930057	20	PASS

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TRF No: CTC-TR-062_A2



	Ant2	5290	NV	0	-15500.00	-2.930057	20	PASS
			NV	10	-15500.00	-2.930057	20	PASS
			NV	20	-15500.00	-2.930057	20	PASS
			NV	30	-15500.00	-2.930057	20	PASS
			NV	40	-15500.00	-2.930057	20	PASS
	Ant1	5530	NV	0	-16000.00	-2.893309	20	PASS
			NV	10	-16000.00	-2.893309	20	PASS
			NV	20	-16000.00	-2.893309	20	PASS
			NV	30	-16000.00	-2.893309	20	PASS
			NV	40	-16000.00	-2.893309	20	PASS
	Ant2	5530	NV	0	-16000.00	-2.893309	20	PASS
			NV	10	-16500.00	-2.983725	20	PASS
			NV	20	-16000.00	-2.893309	20	PASS
			NV	30	-16000.00	-2.893309	20	PASS
			NV	40	-16000.00	-2.893309	20	PASS
	Ant1	5610	NV	0	-16000.00	-2.852050	20	PASS
			NV	10	-16500.00	-2.941176	20	PASS
			NV	20	-16500.00	-2.941176	20	PASS
			NV	30	-16500.00	-2.941176	20	PASS
			NV	40	-16000.00	-2.852050	20	PASS
	Ant2	5610	NV	0	-16000.00	-2.852050	20	PASS
			NV	10	-16000.00	-2.852050	20	PASS
			NV	20	-16000.00	-2.852050	20	PASS
			NV	30	-16000.00	-2.852050	20	PASS
			NV	40	-16000.00	-2.852050	20	PASS
	Ant1	5775	NV	0	-16000.00	-2.770563	20	PASS
			NV	10	-16500.00	-2.857143	20	PASS
			NV	20	-16500.00	-2.857143	20	PASS
			NV	30	-16500.00	-2.857143	20	PASS
			NV	40	-16500.00	-2.857143	20	PASS
	Ant2	5775	NV	0	-16500.00	-2.857143	20	PASS
			NV	10	-17000.00	-2.943723	20	PASS
			NV	20	-17000.00	-2.943723	20	PASS
			NV	30	-17000.00	-2.943723	20	PASS
			NV	40	-17000.00	-2.943723	20	PASS



3.8. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Result

The directional gain of the antenna is 7.96dBi, please refer to the EUT internal photographs antenna photo.



3.9. Dynamic Frequency Selection

Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

**Limit****1. DFS Detection Thresholds**

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.



Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 μsec is selected, the number of pulses

$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\}$$

would be Round up $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Round up } \{17.2\} = 18$.

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658

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Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

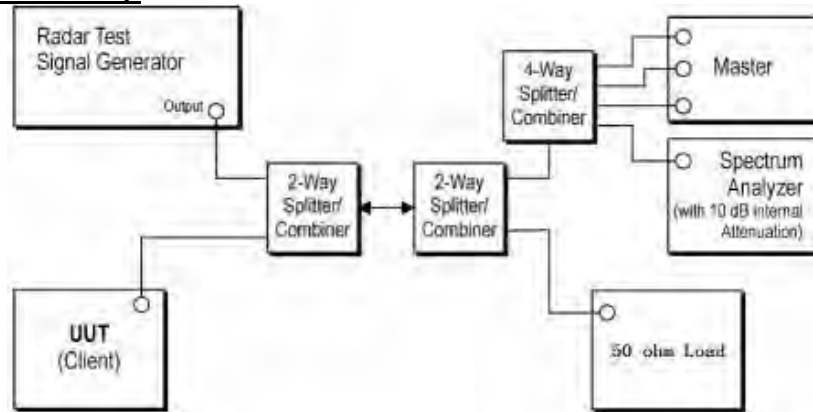
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

Calibration of Radar Waveform

Radar Waveform Calibration Procedure

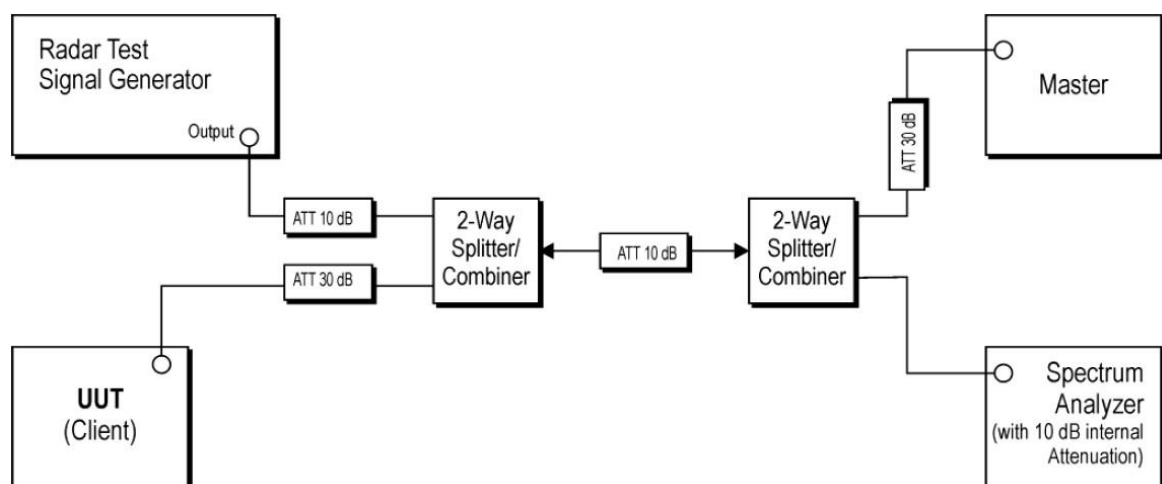
- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is $-62\text{dBm} + 7.96\text{dBi} + 1\text{dB} = -53.04\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 7.96\text{dBi} + 1\text{dB} = -53.04\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup



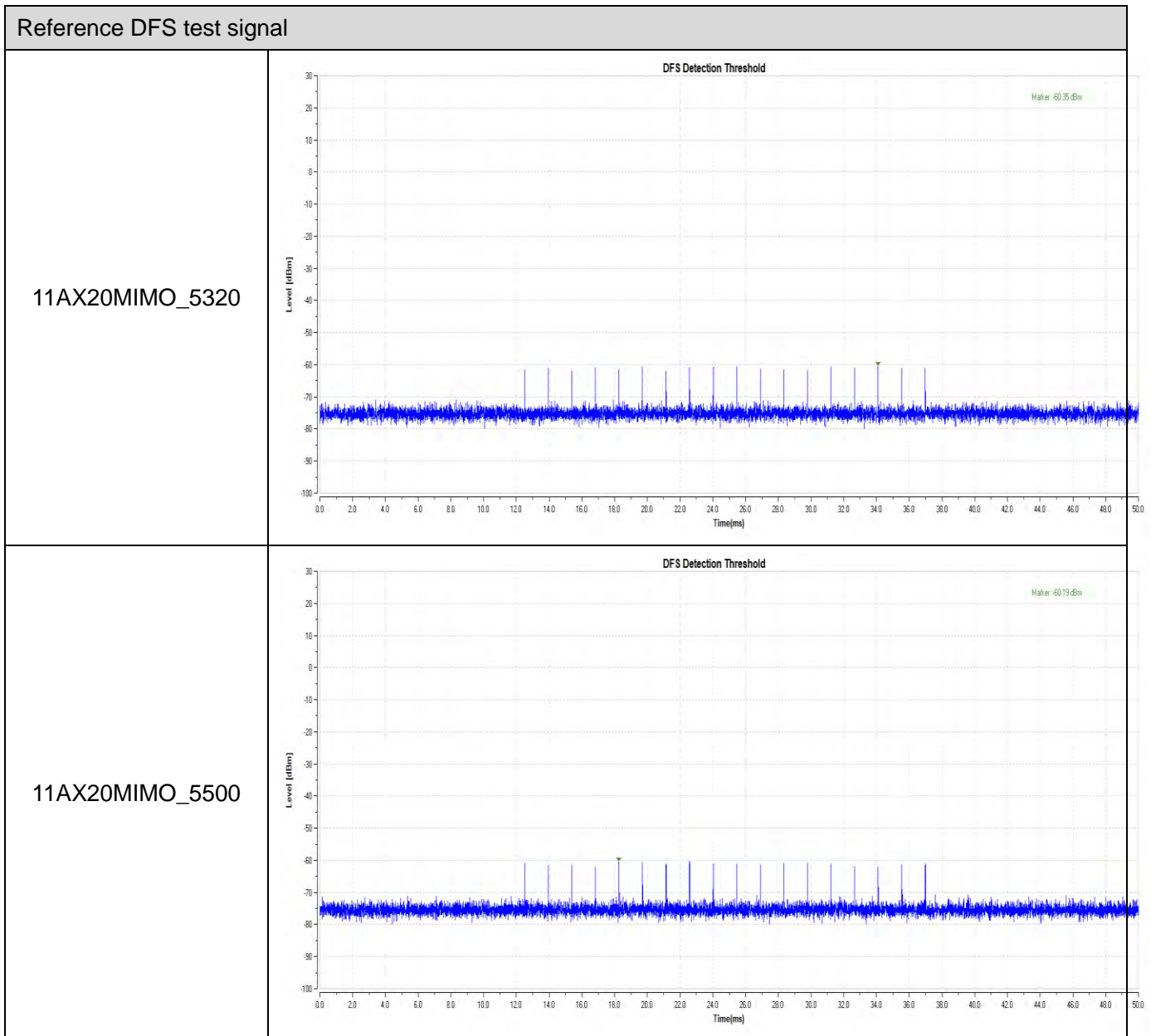
Test Configuration

Setup for Client with injection at the Master





Radar Waveform Calibration Result



Test Procedure

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of

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pulse of the radar waveform at Detection Threshold +1dB.

6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Test Mode

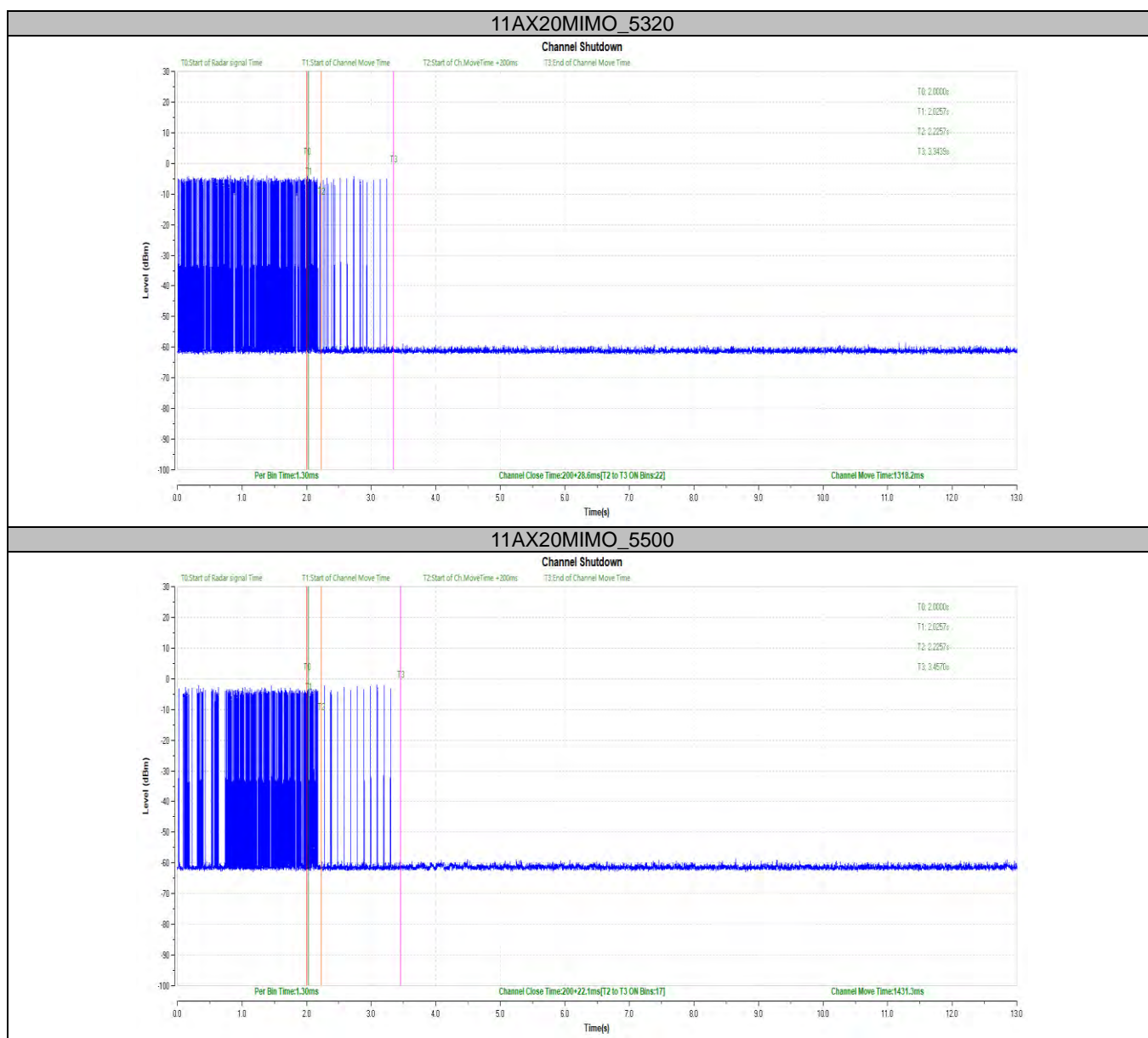
Please refer to the clause 2.4.

**Test Result**☒ **Passed**☐ **Not Applicable**

The product in this report belongs to Client Without Radar Detection.

Test Mode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AX20MIMO	5320	200+28.6	200+60	1318.2	10000	PASS
	5500	200+22.1	200+60	1431.3	10000	PASS

Test Mode	Frequency[MHz]	Result	Limit[s]	Verdict
11AX20MIMO	5320	see test graph	≥1800	PASS
11AX20MIMO	5500	see test graph	≥1800	PASS



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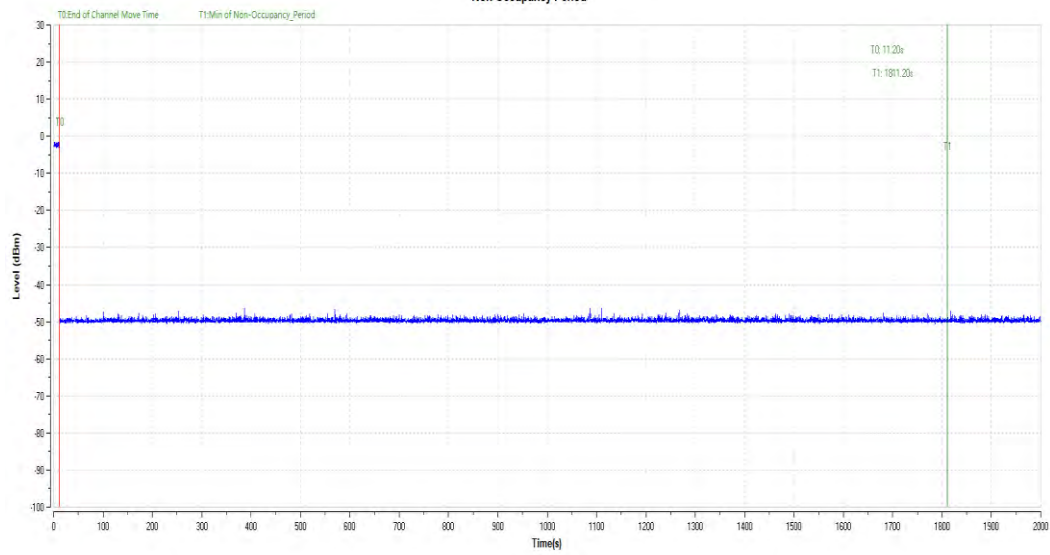
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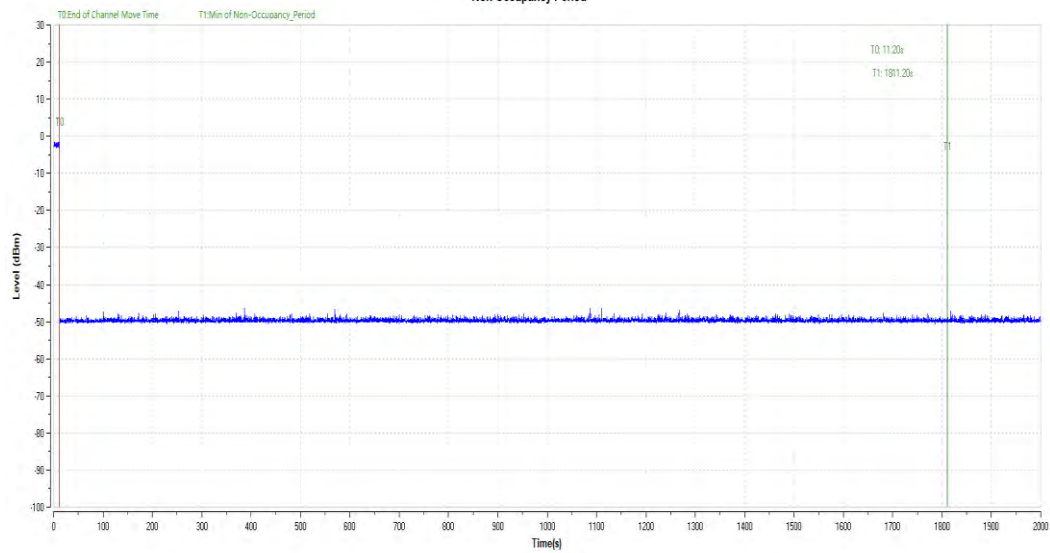
11AX20MIMO_5320

Non-Occupancy Period



11AX20MIMO_5500

Non-Occupancy Period



*****THE END*****

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