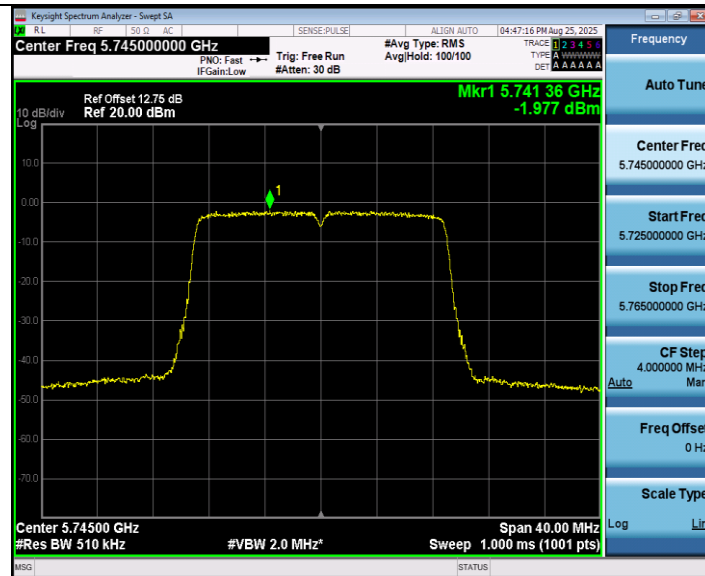
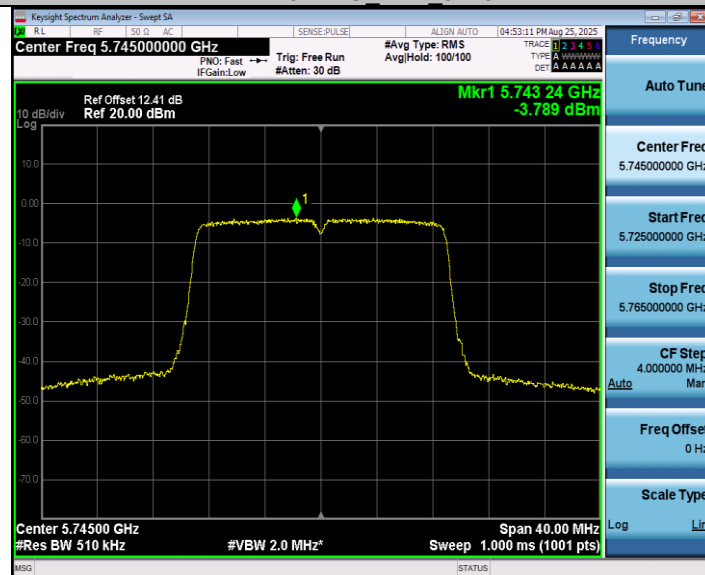
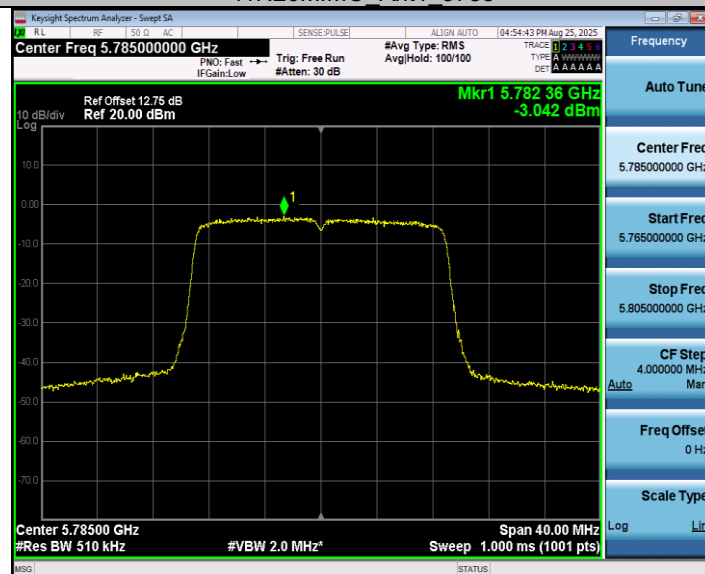




11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



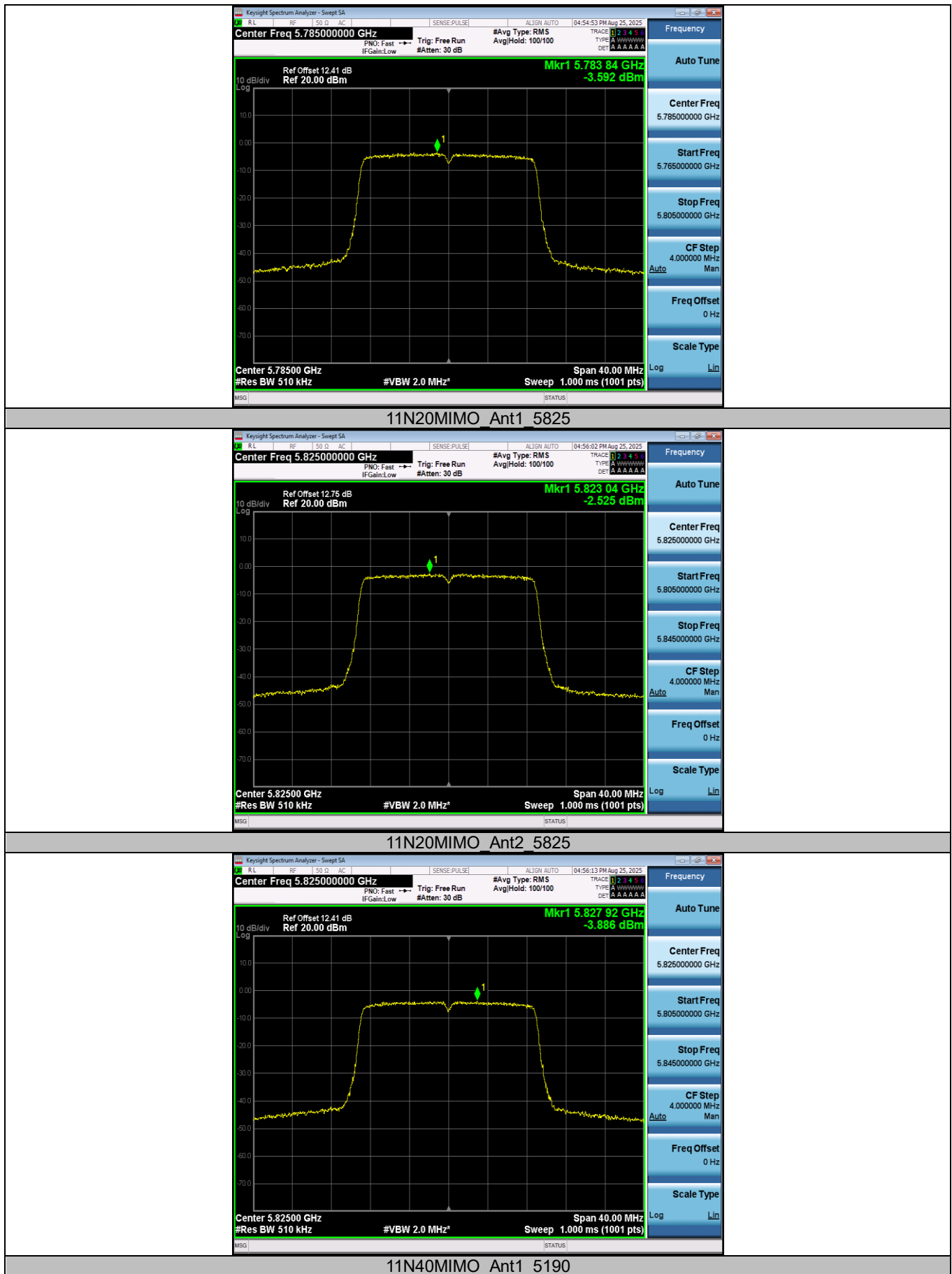
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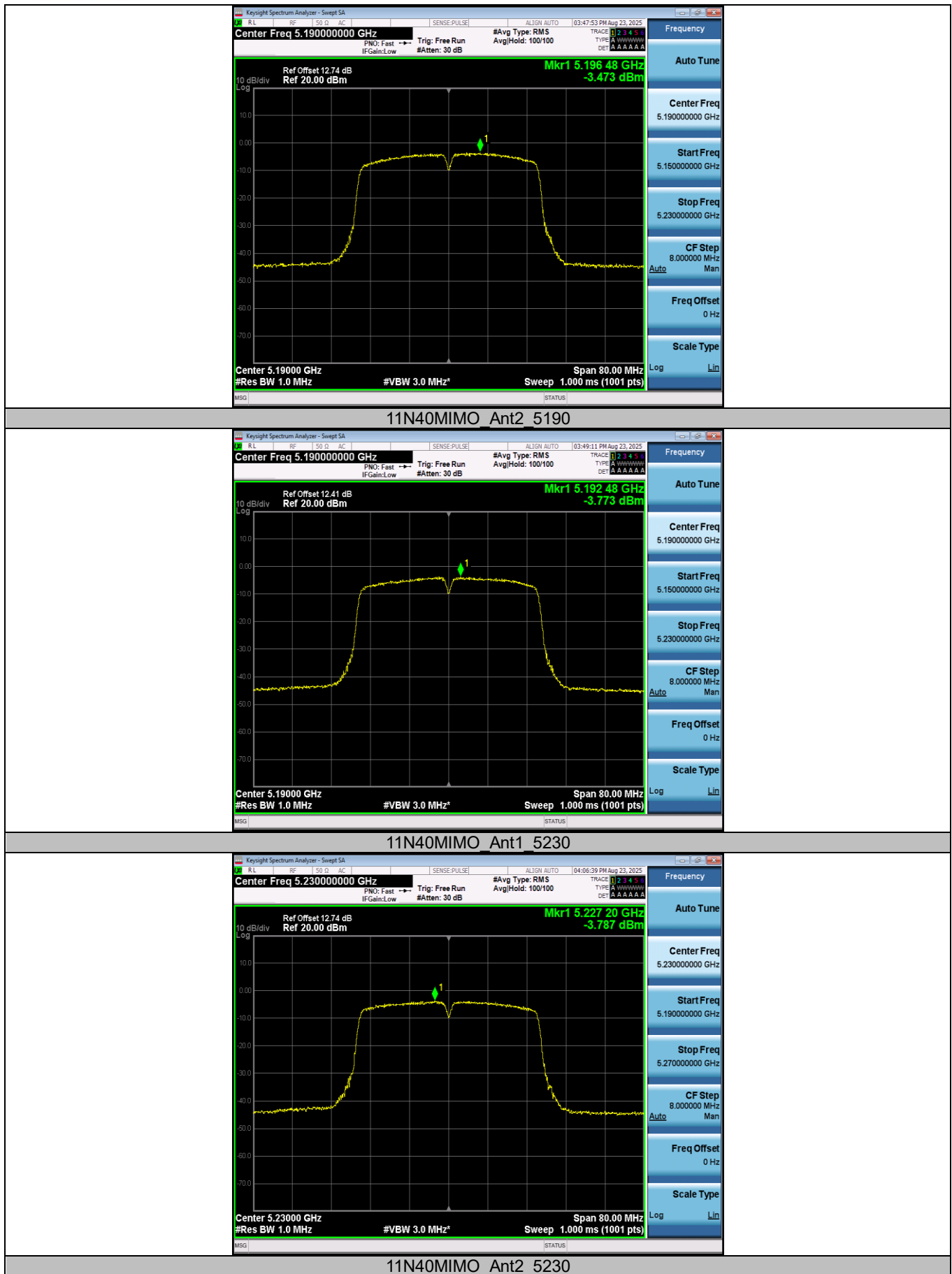
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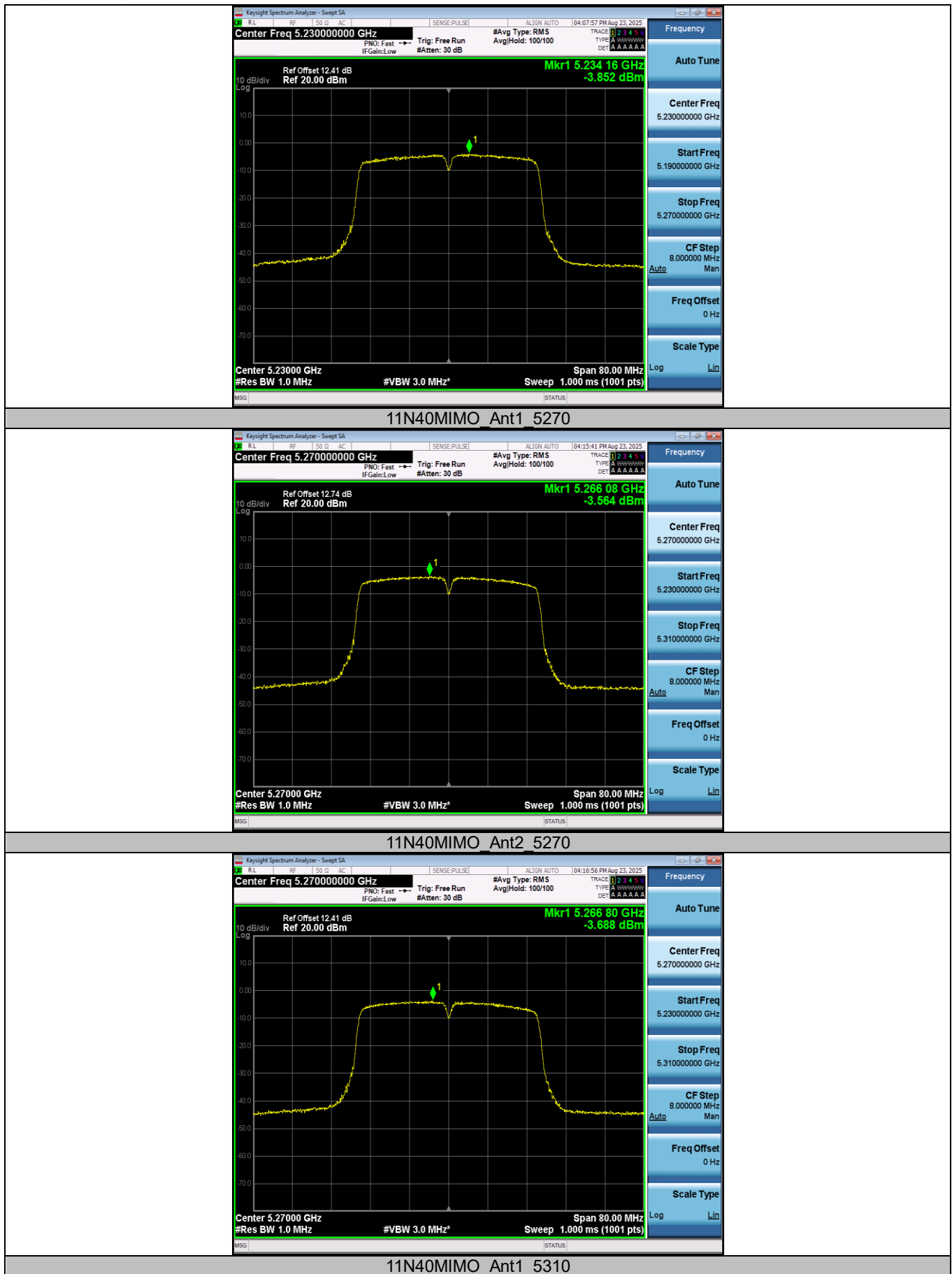
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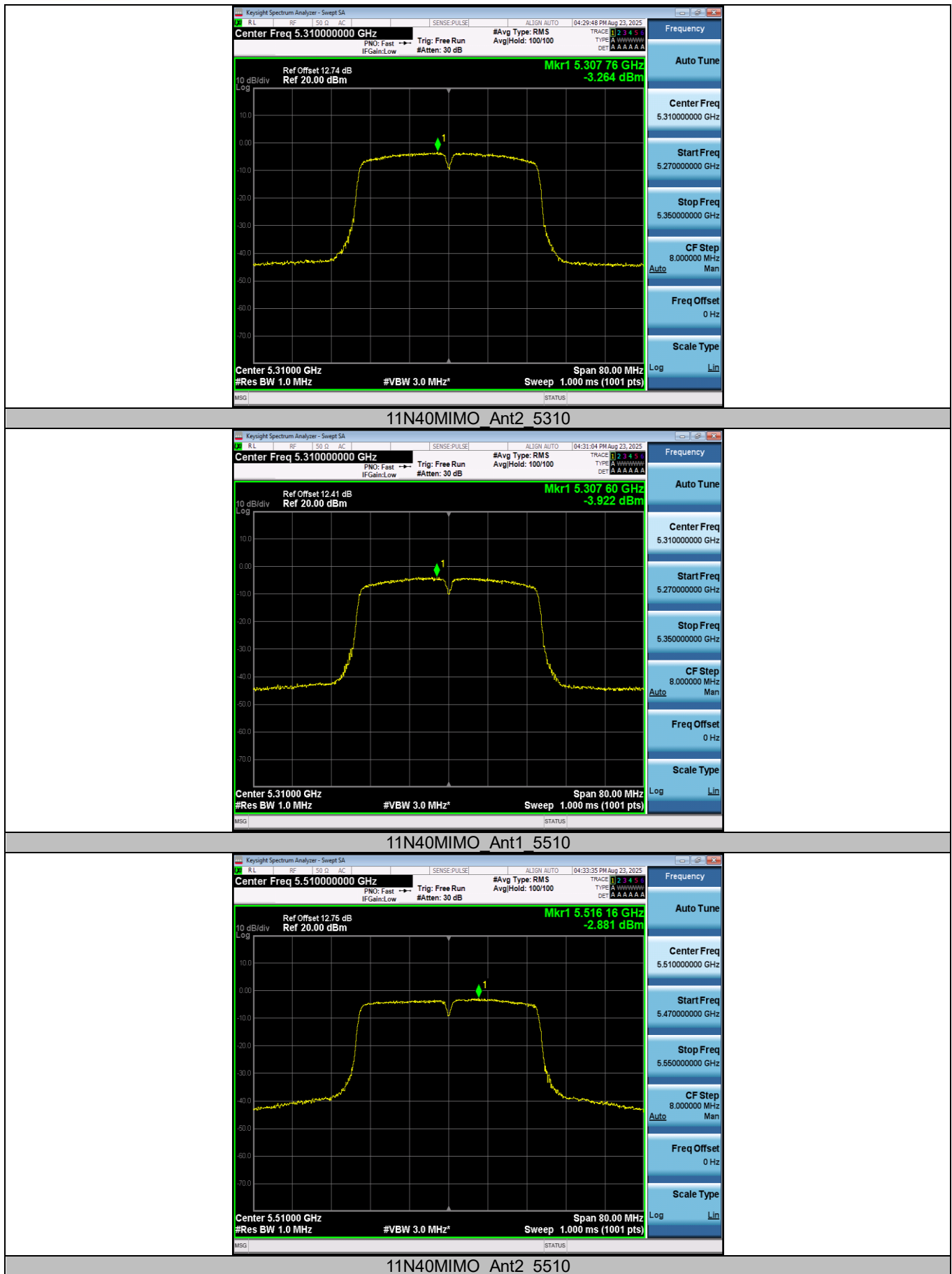


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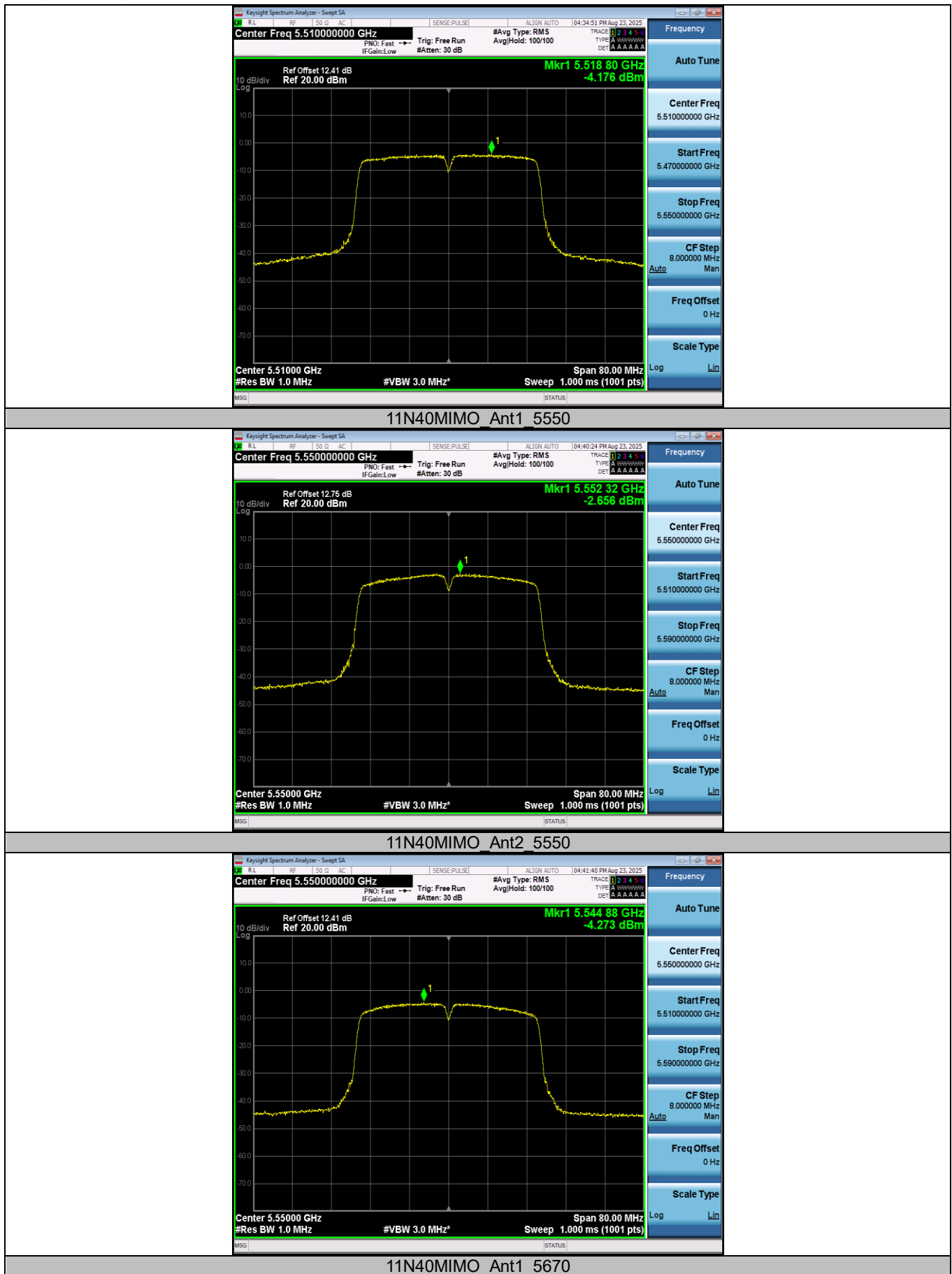
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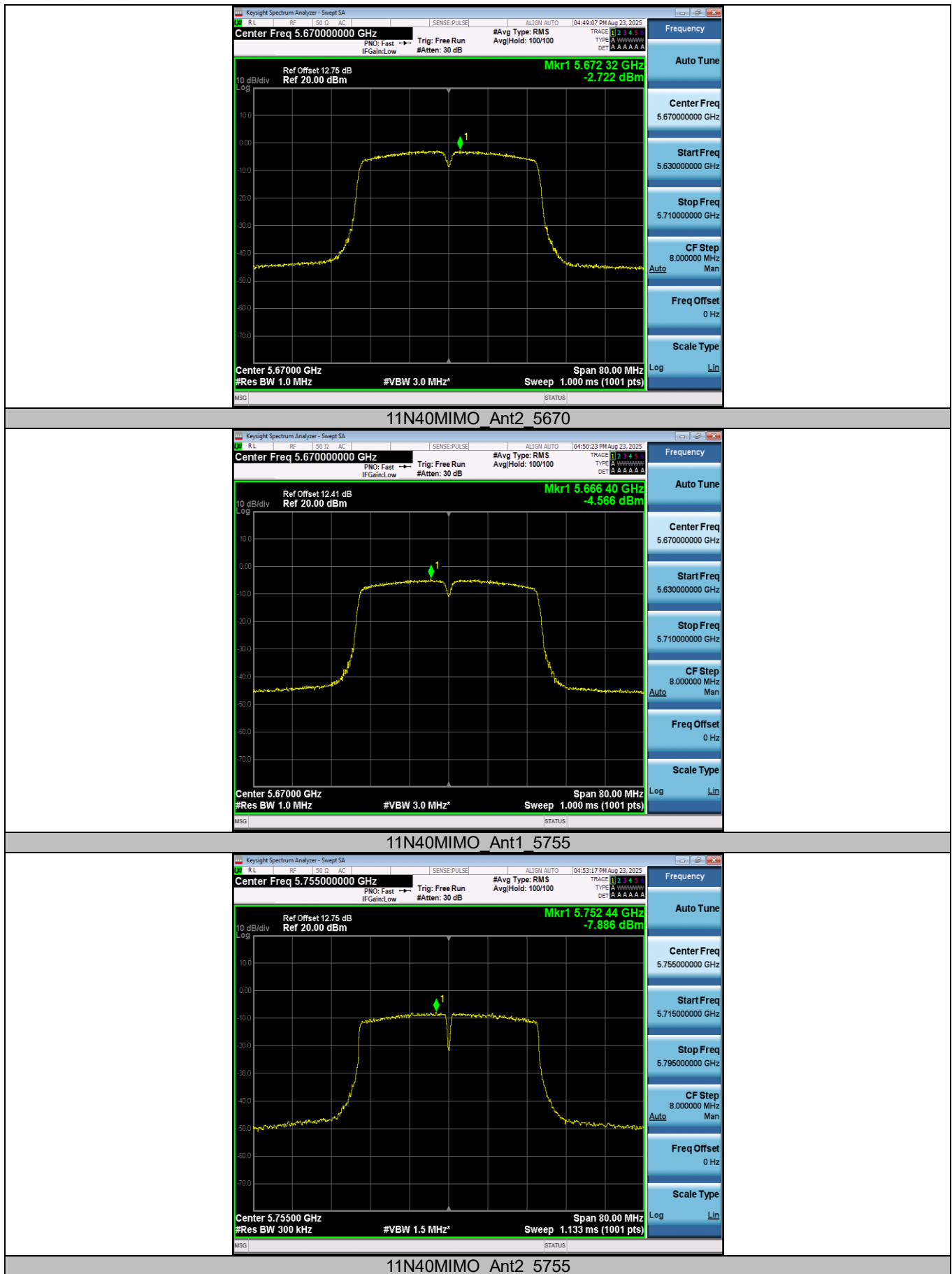
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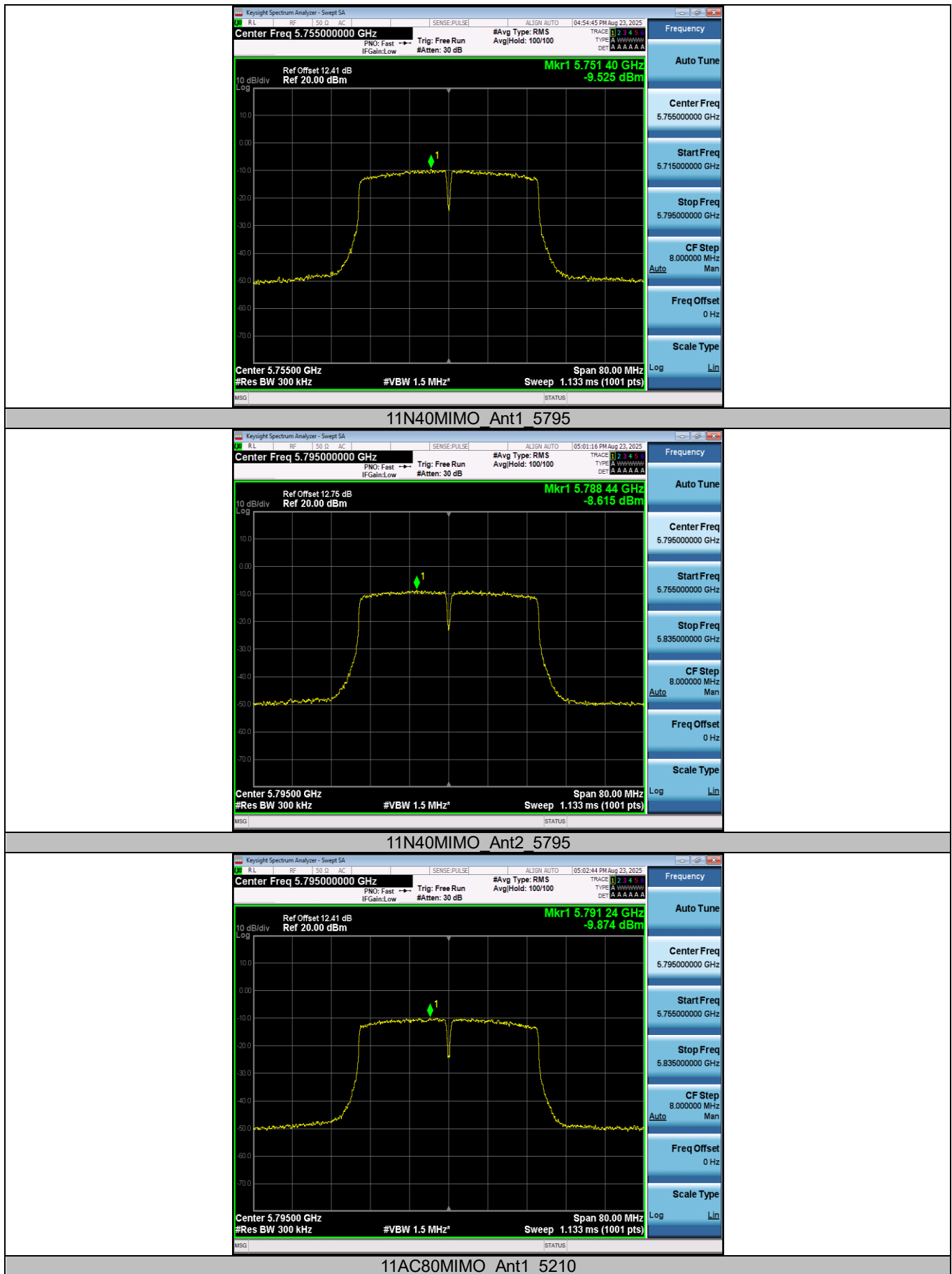
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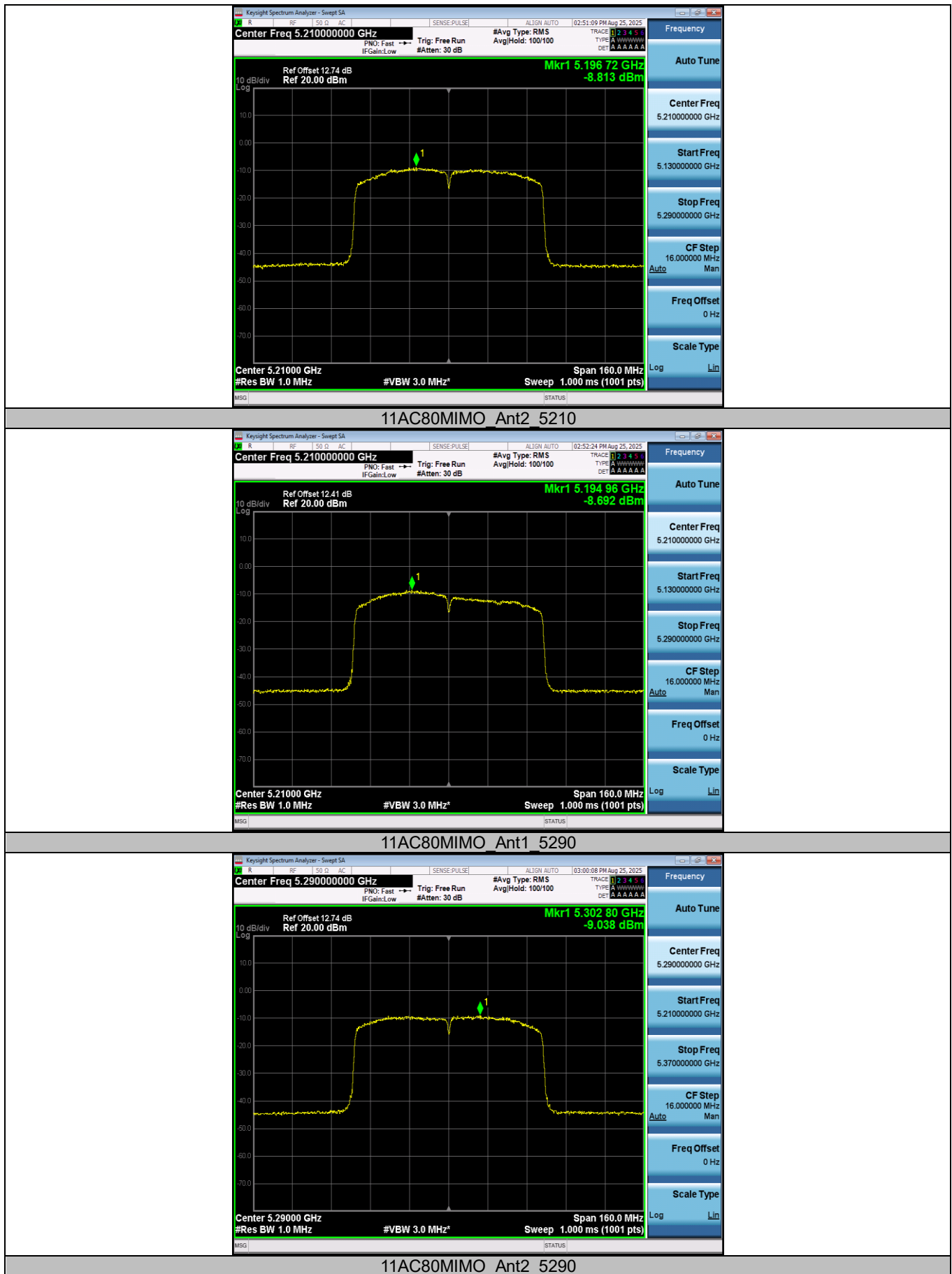
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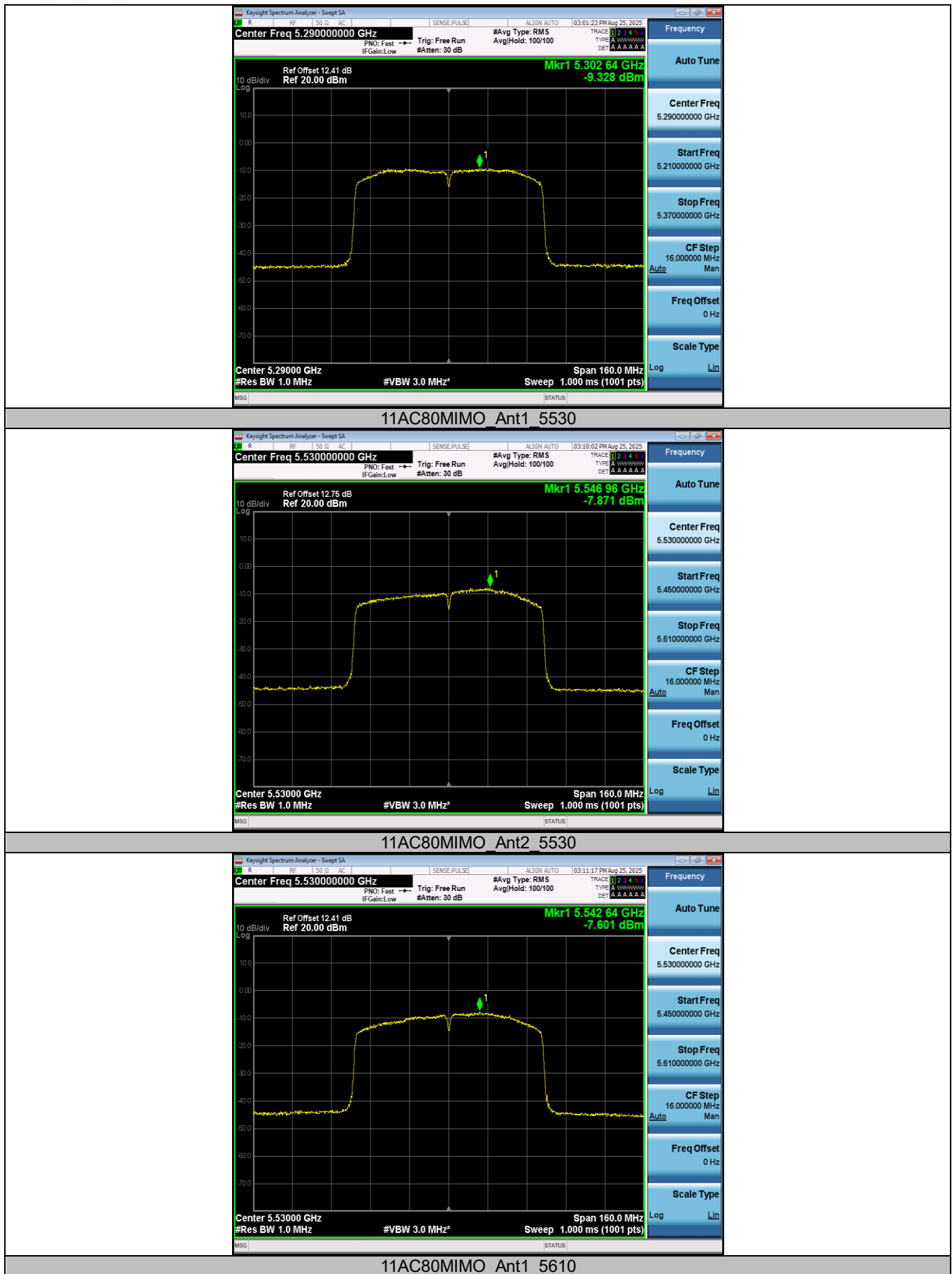
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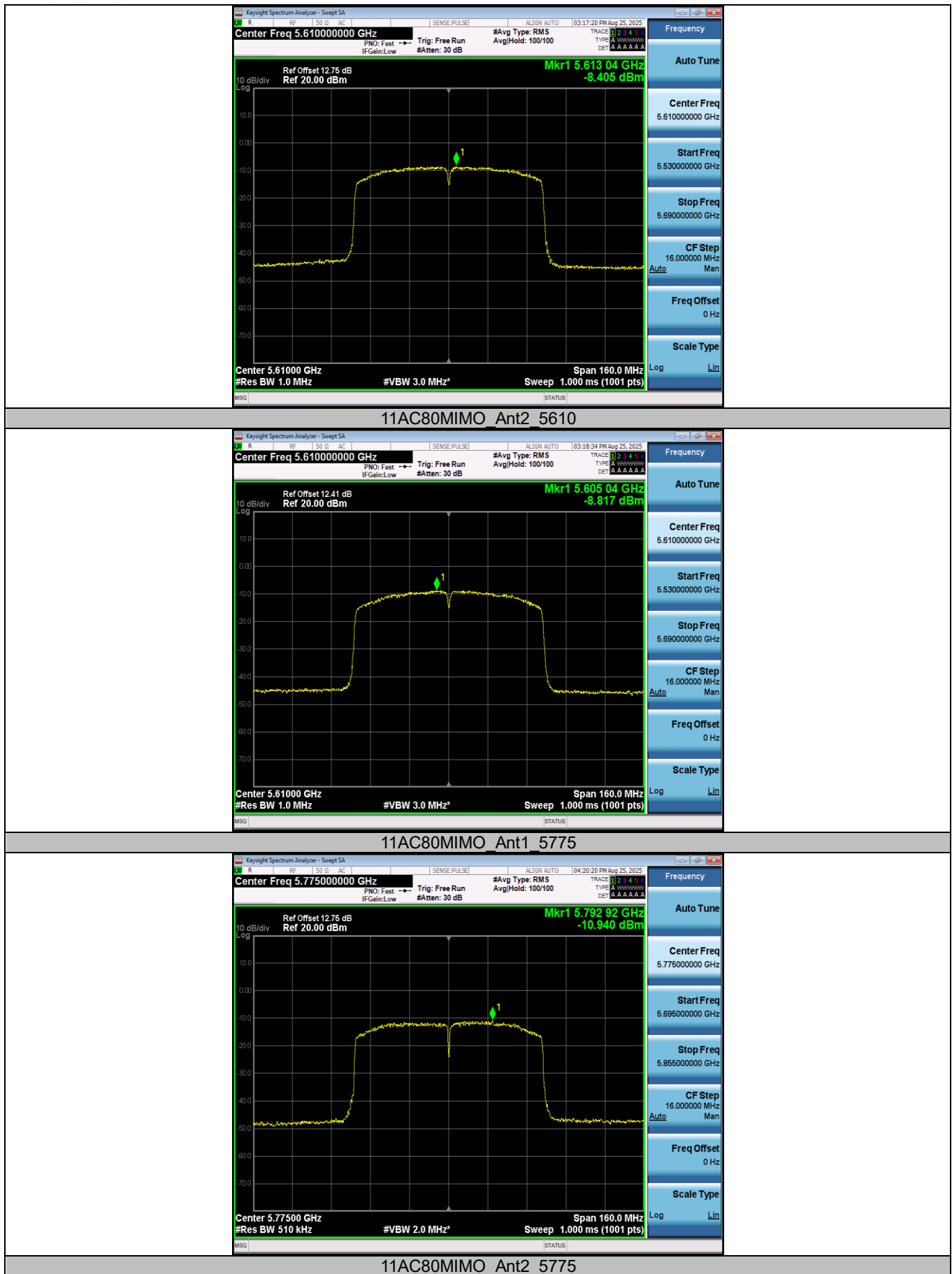
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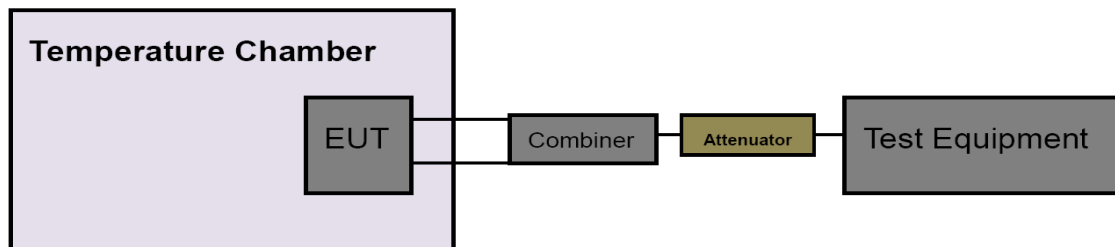
3.7. Frequency Stability

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(g)

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~45°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**

TestMode	Antenna	Freq(MHz)	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
20M	Ant1	5180	NV	NT	-38000.00	-7.335907	20	PASS
			LV	NT	-38000.00	-7.335907	20	PASS
			HV	NT	-38000.00	-7.335907	20	PASS
	Ant2	5180	NV	NT	-38000.00	-7.335907	20	PASS
			LV	NT	-38000.00	-7.335907	20	PASS
			HV	NT	-38000.00	-7.335907	20	PASS
	Ant1	5200	NV	NT	-38000.00	-7.307692	20	PASS
			LV	NT	-38500.00	-7.403846	20	PASS
			HV	NT	-38500.00	-7.403846	20	PASS
	Ant2	5200	NV	NT	-38500.00	-7.403846	20	PASS
			LV	NT	-38500.00	-7.403846	20	PASS
			HV	NT	-38500.00	-7.403846	20	PASS
	Ant1	5240	NV	NT	-39000.00	-7.442748	20	PASS
			LV	NT	-39000.00	-7.442748	20	PASS
			HV	NT	-39000.00	-7.442748	20	PASS
	Ant2	5240	NV	NT	-39000.00	-7.442748	20	PASS
			LV	NT	-39000.00	-7.442748	20	PASS
			HV	NT	-39000.00	-7.442748	20	PASS
	Ant1	5260	NV	NT	-39000.00	-7.414449	20	PASS
			LV	NT	-39000.00	-7.414449	20	PASS
			HV	NT	-39000.00	-7.414449	20	PASS
	Ant2	5260	NV	NT	-39000.00	-7.414449	20	PASS
			LV	NT	-39000.00	-7.414449	20	PASS
			HV	NT	-39000.00	-7.414449	20	PASS
	Ant1	5280	NV	NT	-39000.00	-7.386364	20	PASS
			LV	NT	-39000.00	-7.386364	20	PASS
			HV	NT	-39000.00	-7.386364	20	PASS
	Ant2	5280	NV	NT	-39000.00	-7.386364	20	PASS
			LV	NT	-39500.00	-7.481061	20	PASS
			HV	NT	-39000.00	-7.386364	20	PASS
	Ant1	5320	NV	NT	-39500.00	-7.424812	20	PASS
			LV	NT	-39500.00	-7.424812	20	PASS
			HV	NT	-39500.00	-7.424812	20	PASS
	Ant2	5320	NV	NT	-39500.00	-7.424812	20	PASS
			LV	NT	-39500.00	-7.424812	20	PASS
			HV	NT	-39000.00	-7.330827	20	PASS
	Ant1	5500	NV	NT	-41000.00	-7.454545	20	PASS
			LV	NT	-41000.00	-7.454545	20	PASS
			HV	NT	-41000.00	-7.454545	20	PASS
	Ant2	5500	NV	NT	-41000.00	-7.454545	20	PASS
			LV	NT	-41000.00	-7.454545	20	PASS
			HV	NT	-41000.00	-7.454545	20	PASS
	Ant1	5580	NV	NT	-41500.00	-7.437276	20	PASS
			LV	NT	-41500.00	-7.437276	20	PASS
			HV	NT	-41500.00	-7.437276	20	PASS
	Ant2	5580	NV	NT	-41500.00	-7.437276	20	PASS
			LV	NT	-41500.00	-7.437276	20	PASS
			HV	NT	-41500.00	-7.437276	20	PASS
	Ant1	5700	NV	NT	-42000.00	-7.368421	20	PASS
			LV	NT	-42000.00	-7.368421	20	PASS
			HV	NT	-42000.00	-7.368421	20	PASS
	Ant2	5700	NV	NT	-42000.00	-7.368421	20	PASS
			LV	NT	-42000.00	-7.368421	20	PASS
			HV	NT	-42000.00	-7.368421	20	PASS
	Ant1	5745	NV	NT	-43000.00	-7.484769	20	PASS
			LV	NT	-43000.00	-7.484769	20	PASS
			HV	NT	-43000.00	-7.484769	20	PASS
	Ant2	5745	NV	NT	-43000.00	-7.484769	20	PASS
			LV	NT	-43000.00	-7.484769	20	PASS
			HV	NT	-43000.00	-7.484769	20	PASS

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	Ant1	5785	HV	NT	-43000.00	-7.484769	20	PASS
			NV	NT	-43000.00	-7.433016	20	PASS
			LV	NT	-43000.00	-7.433016	20	PASS
			HV	NT	-43000.00	-7.433016	20	PASS
	Ant2	5785	NV	NT	-43000.00	-7.433016	20	PASS
			LV	NT	-43000.00	-7.433016	20	PASS
			HV	NT	-43000.00	-7.433016	20	PASS
			NV	NT	-43500.00	-7.467811	20	PASS
	Ant1	5825	LV	NT	-43500.00	-7.467811	20	PASS
			HV	NT	-43500.00	-7.467811	20	PASS
			NV	NT	-43500.00	-7.467811	20	PASS
			LV	NT	-43500.00	-7.467811	20	PASS
40M	Ant1	5190	NV	NT	-38500.00	-7.418112	20	PASS
			LV	NT	-38500.00	-7.418112	20	PASS
			HV	NT	-39000.00	-7.514451	20	PASS
	Ant2	5190	NV	NT	-39000.00	-7.514451	20	PASS
			LV	NT	-39000.00	-7.514451	20	PASS
			HV	NT	-39000.00	-7.514451	20	PASS
	Ant1	5230	NV	NT	-39000.00	-7.456979	20	PASS
			LV	NT	-39500.00	-7.552581	20	PASS
			HV	NT	-39500.00	-7.552581	20	PASS
	Ant2	5230	NV	NT	-39500.00	-7.552581	20	PASS
			LV	NT	-39500.00	-7.552581	20	PASS
			HV	NT	-39500.00	-7.552581	20	PASS
	Ant1	5270	NV	NT	-39500.00	-7.495256	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
	Ant2	5270	NV	NT	-39500.00	-7.495256	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-39500.00	-7.495256	20	PASS
	Ant1	5310	NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	-40000.00	-7.532957	20	PASS
			HV	NT	-40000.00	-7.532957	20	PASS
	Ant2	5310	NV	NT	-39500.00	-7.438795	20	PASS
			LV	NT	-40000.00	-7.532957	20	PASS
			HV	NT	-39500.00	-7.438795	20	PASS
	Ant1	5510	NV	NT	-41500.00	-7.531760	20	PASS
			LV	NT	-41500.00	-7.531760	20	PASS
			HV	NT	-42000.00	-7.622505	20	PASS
	Ant2	5510	NV	NT	-41500.00	-7.531760	20	PASS
			LV	NT	-42000.00	-7.622505	20	PASS
			HV	NT	-41500.00	-7.531760	20	PASS
	Ant1	5550	NV	NT	-41500.00	-7.477477	20	PASS
			LV	NT	-41500.00	-7.477477	20	PASS
			HV	NT	-42000.00	-7.567568	20	PASS
	Ant2	5550	NV	NT	-41500.00	-7.477477	20	PASS
			LV	NT	-42000.00	-7.567568	20	PASS
			HV	NT	-41500.00	-7.477477	20	PASS
	Ant1	5670	NV	NT	-42500.00	-7.495591	20	PASS
			LV	NT	-42000.00	-7.407407	20	PASS
			HV	NT	-42500.00	-7.495591	20	PASS
	Ant2	5670	NV	NT	-42500.00	-7.495591	20	PASS
			LV	NT	-42500.00	-7.495591	20	PASS
			HV	NT	-42000.00	-7.407407	20	PASS
	Ant1	5755	NV	NT	-43500.00	-7.558645	20	PASS
			LV	NT	-43500.00	-7.558645	20	PASS
			HV	NT	-43500.00	-7.558645	20	PASS
	Ant2	5755	NV	NT	-43500.00	-7.558645	20	PASS
			LV	NT	-43500.00	-7.558645	20	PASS
			HV	NT	-43500.00	-7.558645	20	PASS
	Ant1	5795	NV	NT	-43000.00	-7.420190	20	PASS
			LV	NT	-43000.00	-7.420190	20	PASS
			HV	NT	-43000.00	-7.420190	20	PASS
	Ant2	5795	NV	NT	-43000.00	-7.420190	20	PASS

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80M	Ant1	5210	LV	NT	-43000.00	-7.420190	20	PASS
			HV	NT	-43000.00	-7.420190	20	PASS
	Ant2	5210	NV	NT	-39000.00	-7.485605	20	PASS
			LV	NT	-38500.00	-7.389635	20	PASS
	Ant1	5290	HV	NT	-39000.00	-7.485605	20	PASS
			NV	NT	-39000.00	-7.485605	20	PASS
	Ant2	5290	LV	NT	-39000.00	-7.485605	20	PASS
			HV	NT	-39000.00	-7.485605	20	PASS
	Ant1	5530	NV	NT	-39500.00	-7.466919	20	PASS
			LV	NT	-39500.00	-7.466919	20	PASS
	Ant2	5530	HV	NT	-39500.00	-7.466919	20	PASS
			NV	NT	-39500.00	-7.466919	20	PASS
	Ant1	5530	NV	NT	-42000.00	-7.594937	20	PASS
			LV	NT	-41500.00	-7.504521	20	PASS
	Ant2	5530	HV	NT	-42000.00	-7.594937	20	PASS
			NV	NT	-42000.00	-7.594937	20	PASS
	Ant1	5610	LV	NT	-42000.00	-7.594937	20	PASS
			HV	NT	-42000.00	-7.594937	20	PASS
	Ant2	5610	NV	NT	-42000.00	-7.486631	20	PASS
			LV	NT	-41500.00	-7.397504	20	PASS
	Ant1	5775	HV	NT	-42000.00	-7.486631	20	PASS
			NV	NT	-42000.00	-7.486631	20	PASS
	Ant2	5775	LV	NT	-42000.00	-7.486631	20	PASS
			HV	NT	-42000.00	-7.486631	20	PASS
	Ant1	5775	NV	NT	-43500.00	-7.532468	20	PASS
			LV	NT	-43500.00	-7.532468	20	PASS
	Ant2	5775	HV	NT	-43500.00	-7.532468	20	PASS
			NV	NT	-43500.00	-7.532468	20	PASS

Temperature								
TestMode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20M	Ant1	5180	NV	0	-38000.00	-7.335907	20	PASS
			NV	10	-38000.00	-7.335907	20	PASS
			NV	20	-38000.00	-7.335907	20	PASS
			NV	30	-38000.00	-7.335907	20	PASS
			NV	40	-38000.00	-7.335907	20	PASS
			NV	45	-38500.00	-7.432432	20	PASS
	Ant2	5180	NV	0	-38000.00	-7.335907	20	PASS
			NV	10	-38000.00	-7.335907	20	PASS
			NV	20	-38000.00	-7.335907	20	PASS
			NV	30	-38000.00	-7.335907	20	PASS
			NV	40	-38000.00	-7.335907	20	PASS
			NV	45	-38000.00	-7.335907	20	PASS
	Ant1	5200	NV	0	-38500.00	-7.403846	20	PASS
			NV	10	-38500.00	-7.403846	20	PASS
			NV	20	-38500.00	-7.403846	20	PASS
			NV	30	-38500.00	-7.403846	20	PASS
			NV	40	-38500.00	-7.403846	20	PASS
			NV	45	-38500.00	-7.403846	20	PASS
	Ant2	5200	NV	0	-38500.00	-7.403846	20	PASS
			NV	10	-38500.00	-7.403846	20	PASS
			NV	20	-38500.00	-7.403846	20	PASS
			NV	30	-38500.00	-7.403846	20	PASS
			NV	40	-38500.00	-7.403846	20	PASS
			NV	45	-38500.00	-7.403846	20	PASS
	Ant1	5240	NV	0	-39000.00	-7.442748	20	PASS
			NV	10	-39000.00	-7.442748	20	PASS
			NV	20	-39000.00	-7.442748	20	PASS
			NV	30	-39000.00	-7.442748	20	PASS
	Ant2	5240	NV	40	-39000.00	-7.442748	20	PASS
			NV	40	-39000.00	-7.442748	20	PASS

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	Ant2	5240	NV	45	-39000.00	-7.442748	20	PASS
			NV	0	-39000.00	-7.442748	20	PASS
			NV	10	-39000.00	-7.442748	20	PASS
			NV	20	-39000.00	-7.442748	20	PASS
			NV	30	-39000.00	-7.442748	20	PASS
			NV	40	-39000.00	-7.442748	20	PASS
	Ant1	5260	NV	45	-39000.00	-7.442748	20	PASS
			NV	0	-39000.00	-7.414449	20	PASS
			NV	10	-39000.00	-7.414449	20	PASS
			NV	20	-39000.00	-7.414449	20	PASS
			NV	30	-39000.00	-7.414449	20	PASS
			NV	40	-39000.00	-7.414449	20	PASS
	Ant2	5260	NV	45	-39000.00	-7.414449	20	PASS
			NV	0	-39000.00	-7.414449	20	PASS
			NV	10	-39000.00	-7.414449	20	PASS
			NV	20	-39000.00	-7.414449	20	PASS
			NV	30	-39000.00	-7.414449	20	PASS
			NV	40	-39000.00	-7.414449	20	PASS
	Ant1	5280	NV	45	-39000.00	-7.414449	20	PASS
			NV	0	-39000.00	-7.386364	20	PASS
			NV	10	-39000.00	-7.386364	20	PASS
			NV	20	-39000.00	-7.386364	20	PASS
			NV	30	-39500.00	-7.481061	20	PASS
			NV	40	-39500.00	-7.481061	20	PASS
	Ant2	5280	NV	45	-39500.00	-7.481061	20	PASS
			NV	0	-39000.00	-7.386364	20	PASS
			NV	10	-39500.00	-7.481061	20	PASS
			NV	20	-39000.00	-7.386364	20	PASS
			NV	30	-39000.00	-7.386364	20	PASS
			NV	40	-39500.00	-7.481061	20	PASS
	Ant1	5320	NV	45	-39000.00	-7.386364	20	PASS
			NV	0	-39500.00	-7.424812	20	PASS
			NV	10	-39500.00	-7.424812	20	PASS
			NV	20	-39500.00	-7.424812	20	PASS
			NV	30	-39500.00	-7.424812	20	PASS
			NV	40	-39500.00	-7.424812	20	PASS
	Ant2	5320	NV	45	-39500.00	-7.424812	20	PASS
			NV	0	-39500.00	-7.424812	20	PASS
			NV	10	-39500.00	-7.424812	20	PASS
			NV	20	-39500.00	-7.424812	20	PASS
			NV	30	-39500.00	-7.424812	20	PASS
			NV	40	-39500.00	-7.424812	20	PASS
	Ant1	5500	NV	45	-39500.00	-7.424812	20	PASS
			NV	0	-41000.00	-7.454545	20	PASS
			NV	10	-41000.00	-7.454545	20	PASS
			NV	20	-41000.00	-7.454545	20	PASS
			NV	30	-41000.00	-7.454545	20	PASS
			NV	40	-41000.00	-7.454545	20	PASS
	Ant2	5500	NV	45	-41000.00	-7.454545	20	PASS
			NV	0	-41000.00	-7.454545	20	PASS
			NV	10	-41000.00	-7.454545	20	PASS
			NV	20	-41000.00	-7.454545	20	PASS
			NV	30	-41000.00	-7.454545	20	PASS
			NV	40	-41000.00	-7.454545	20	PASS
	Ant1	5580	NV	45	-41000.00	-7.454545	20	PASS
			NV	0	-41500.00	-7.437276	20	PASS
			NV	10	-41500.00	-7.437276	20	PASS
			NV	20	-41500.00	-7.437276	20	PASS
			NV	30	-41500.00	-7.437276	20	PASS
			NV	40	-41500.00	-7.437276	20	PASS
	Ant2	5580	NV	45	-41500.00	-7.437276	20	PASS
			NV	0	-41500.00	-7.437276	20	PASS
			NV	10	-41500.00	-7.437276	20	PASS
			NV	20	-41500.00	-7.437276	20	PASS

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			NV	40	-41500.00	-7.437276	20	PASS
			NV	45	-42000.00	-7.526882	20	PASS
	Ant1	5700	NV	0	-42500.00	-7.456140	20	PASS
			NV	10	-42000.00	-7.368421	20	PASS
			NV	20	-42000.00	-7.368421	20	PASS
			NV	30	-42000.00	-7.368421	20	PASS
			NV	40	-42000.00	-7.368421	20	PASS
			NV	45	-42000.00	-7.368421	20	PASS
	Ant2	5700	NV	0	-42000.00	-7.368421	20	PASS
			NV	10	-42000.00	-7.368421	20	PASS
			NV	20	-42000.00	-7.368421	20	PASS
			NV	30	-42000.00	-7.368421	20	PASS
			NV	40	-42000.00	-7.368421	20	PASS
			NV	45	-42000.00	-7.368421	20	PASS
	Ant1	5745	NV	0	-43000.00	-7.484769	20	PASS
			NV	10	-43000.00	-7.484769	20	PASS
			NV	20	-43000.00	-7.484769	20	PASS
			NV	30	-43000.00	-7.484769	20	PASS
			NV	40	-43000.00	-7.484769	20	PASS
			NV	45	-43000.00	-7.484769	20	PASS
	Ant2	5745	NV	0	-43000.00	-7.484769	20	PASS
			NV	10	-43000.00	-7.484769	20	PASS
			NV	20	-43000.00	-7.484769	20	PASS
			NV	30	-43000.00	-7.484769	20	PASS
			NV	40	-43000.00	-7.484769	20	PASS
			NV	45	-43000.00	-7.484769	20	PASS
	Ant1	5785	NV	0	-43000.00	-7.433016	20	PASS
			NV	10	-43000.00	-7.433016	20	PASS
			NV	20	-42500.00	-7.346586	20	PASS
			NV	30	-42500.00	-7.346586	20	PASS
			NV	40	-42500.00	-7.346586	20	PASS
			NV	45	-42500.00	-7.346586	20	PASS
	Ant2	5785	NV	0	-43000.00	-7.433016	20	PASS
			NV	10	-43000.00	-7.433016	20	PASS
			NV	20	-43000.00	-7.433016	20	PASS
			NV	30	-43000.00	-7.433016	20	PASS
			NV	40	-43000.00	-7.433016	20	PASS
			NV	45	-43000.00	-7.433016	20	PASS
	Ant1	5825	NV	0	-43500.00	-7.467811	20	PASS
			NV	10	-43500.00	-7.467811	20	PASS
			NV	20	-43500.00	-7.467811	20	PASS
			NV	30	-43500.00	-7.467811	20	PASS
			NV	40	-43500.00	-7.467811	20	PASS
			NV	45	-43500.00	-7.467811	20	PASS
	Ant2	5825	NV	0	-44000.00	-7.553648	20	PASS
			NV	10	-43500.00	-7.467811	20	PASS
			NV	20	-44000.00	-7.553648	20	PASS
			NV	30	-43500.00	-7.467811	20	PASS
			NV	40	-43500.00	-7.467811	20	PASS
			NV	45	-43500.00	-7.467811	20	PASS
40M	Ant1	5190	NV	0	-39000.00	-7.514451	20	PASS
			NV	10	-38500.00	-7.418112	20	PASS
			NV	20	-39000.00	-7.514451	20	PASS
			NV	30	-39000.00	-7.514451	20	PASS
			NV	40	-39000.00	-7.514451	20	PASS
			NV	45	-39000.00	-7.514451	20	PASS
	Ant2	5190	NV	0	-39000.00	-7.514451	20	PASS
			NV	10	-39000.00	-7.514451	20	PASS
			NV	20	-39000.00	-7.514451	20	PASS
			NV	30	-39000.00	-7.514451	20	PASS
			NV	40	-39000.00	-7.514451	20	PASS
			NV	45	-39000.00	-7.514451	20	PASS
	Ant1	5230	NV	0	-39500.00	-7.552581	20	PASS
			NV	10	-39500.00	-7.552581	20	PASS
			NV	20	-39500.00	-7.552581	20	PASS

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			NV	30	-39500.00	-7.552581	20	PASS
			NV	40	-39500.00	-7.552581	20	PASS
			NV	45	-39500.00	-7.552581	20	PASS
	Ant2	5230	NV	0	-39500.00	-7.552581	20	PASS
			NV	10	-39500.00	-7.552581	20	PASS
			NV	20	-39500.00	-7.552581	20	PASS
			NV	30	-39000.00	-7.456979	20	PASS
			NV	40	-39500.00	-7.552581	20	PASS
			NV	45	-39500.00	-7.552581	20	PASS
	Ant1	5270	NV	0	-40000.00	-7.590133	20	PASS
			NV	10	-40000.00	-7.590133	20	PASS
			NV	20	-40000.00	-7.590133	20	PASS
			NV	30	-40000.00	-7.590133	20	PASS
			NV	40	-39500.00	-7.495256	20	PASS
			NV	45	-40000.00	-7.590133	20	PASS
	Ant2	5270	NV	0	-39500.00	-7.495256	20	PASS
			NV	10	-39500.00	-7.495256	20	PASS
			NV	20	-40000.00	-7.590133	20	PASS
			NV	30	-39500.00	-7.495256	20	PASS
			NV	40	-39500.00	-7.495256	20	PASS
			NV	45	-40000.00	-7.590133	20	PASS
	Ant1	5310	NV	0	-40000.00	-7.532957	20	PASS
			NV	10	-40000.00	-7.532957	20	PASS
			NV	20	-40000.00	-7.532957	20	PASS
			NV	30	-40000.00	-7.532957	20	PASS
			NV	40	-40000.00	-7.532957	20	PASS
			NV	45	-40000.00	-7.532957	20	PASS
	Ant2	5310	NV	0	-40000.00	-7.532957	20	PASS
			NV	10	-39500.00	-7.438795	20	PASS
			NV	20	-39500.00	-7.438795	20	PASS
			NV	30	-39500.00	-7.438795	20	PASS
			NV	40	-40000.00	-7.532957	20	PASS
			NV	45	-39500.00	-7.438795	20	PASS
	Ant1	5510	NV	0	-41500.00	-7.531760	20	PASS
			NV	10	-41500.00	-7.531760	20	PASS
			NV	20	-41500.00	-7.531760	20	PASS
			NV	30	-41500.00	-7.531760	20	PASS
			NV	40	-41500.00	-7.531760	20	PASS
			NV	45	-41500.00	-7.531760	20	PASS
	Ant2	5510	NV	0	-41500.00	-7.531760	20	PASS
			NV	10	-41500.00	-7.531760	20	PASS
			NV	20	-41500.00	-7.531760	20	PASS
			NV	30	-41500.00	-7.531760	20	PASS
			NV	40	-41500.00	-7.531760	20	PASS
			NV	45	-41500.00	-7.531760	20	PASS
	Ant1	5550	NV	0	-41500.00	-7.477477	20	PASS
			NV	10	-42000.00	-7.567568	20	PASS
			NV	20	-41500.00	-7.477477	20	PASS
			NV	30	-42000.00	-7.567568	20	PASS
			NV	40	-41500.00	-7.477477	20	PASS
			NV	45	-41500.00	-7.477477	20	PASS
	Ant2	5550	NV	0	-41500.00	-7.477477	20	PASS
			NV	10	-42000.00	-7.567568	20	PASS
			NV	20	-42000.00	-7.567568	20	PASS
			NV	30	-41500.00	-7.477477	20	PASS
			NV	40	-41500.00	-7.477477	20	PASS
			NV	45	-41500.00	-7.477477	20	PASS
	Ant1	5670	NV	0	-42500.00	-7.495591	20	PASS
			NV	10	-42500.00	-7.495591	20	PASS
			NV	20	-42500.00	-7.495591	20	PASS
			NV	30	-42000.00	-7.407407	20	PASS
			NV	40	-42500.00	-7.495591	20	PASS
			NV	45	-42500.00	-7.495591	20	PASS
	Ant2	5670	NV	0	-42500.00	-7.495591	20	PASS
			NV	10	-42500.00	-7.495591	20	PASS

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			NV	20	-42500.00	-7.495591	20	PASS
			NV	30	-42500.00	-7.495591	20	PASS
			NV	40	-42500.00	-7.495591	20	PASS
			NV	45	-42000.00	-7.407407	20	PASS
			NV	0	-43500.00	-7.558645	20	PASS
	Ant1	5755	NV	10	-43500.00	-7.558645	20	PASS
			NV	20	-43500.00	-7.558645	20	PASS
			NV	30	-43500.00	-7.558645	20	PASS
			NV	40	-43500.00	-7.558645	20	PASS
			NV	45	-43500.00	-7.558645	20	PASS
	Ant2	5755	NV	0	-43500.00	-7.558645	20	PASS
			NV	10	-43500.00	-7.558645	20	PASS
			NV	20	-43500.00	-7.558645	20	PASS
			NV	30	-43500.00	-7.558645	20	PASS
			NV	40	-43500.00	-7.558645	20	PASS
	Ant1	5795	NV	45	-43500.00	-7.558645	20	PASS
			NV	0	-43000.00	-7.420190	20	PASS
			NV	10	-43000.00	-7.420190	20	PASS
			NV	20	-43000.00	-7.420190	20	PASS
			NV	30	-43000.00	-7.420190	20	PASS
	Ant2	5795	NV	40	-43000.00	-7.420190	20	PASS
			NV	45	-43000.00	-7.420190	20	PASS
			NV	0	-43000.00	-7.420190	20	PASS
			NV	10	-43000.00	-7.420190	20	PASS
			NV	20	-43000.00	-7.420190	20	PASS
80M	Ant1	5210	NV	30	-43000.00	-7.420190	20	PASS
			NV	40	-43000.00	-7.420190	20	PASS
			NV	45	-43000.00	-7.420190	20	PASS
			NV	0	-39000.00	-7.485605	20	PASS
			NV	10	-39000.00	-7.485605	20	PASS
	Ant2	5210	NV	20	-39000.00	-7.485605	20	PASS
			NV	30	-38500.00	-7.389635	20	PASS
			NV	40	-39000.00	-7.485605	20	PASS
			NV	45	-39000.00	-7.485605	20	PASS
			NV	0	-39000.00	-7.485605	20	PASS
	Ant1	5290	NV	10	-39000.00	-7.485605	20	PASS
			NV	20	-39000.00	-7.485605	20	PASS
			NV	30	-39000.00	-7.485605	20	PASS
			NV	40	-39000.00	-7.485605	20	PASS
			NV	45	-39000.00	-7.485605	20	PASS
	Ant2	5290	NV	0	-39500.00	-7.466919	20	PASS
			NV	10	-39500.00	-7.466919	20	PASS
			NV	20	-39500.00	-7.466919	20	PASS
			NV	30	-39500.00	-7.466919	20	PASS
			NV	40	-39500.00	-7.466919	20	PASS
	Ant1	5530	NV	45	-39500.00	-7.466919	20	PASS
			NV	0	-39500.00	-7.466919	20	PASS
			NV	10	-39500.00	-7.466919	20	PASS
			NV	20	-39500.00	-7.466919	20	PASS
			NV	30	-39500.00	-7.466919	20	PASS
	Ant2	5530	NV	40	-39500.00	-7.466919	20	PASS
			NV	45	-39500.00	-7.466919	20	PASS
			NV	0	-42000.00	-7.594937	20	PASS
			NV	10	-42000.00	-7.594937	20	PASS
			NV	20	-42000.00	-7.594937	20	PASS
	Ant1	5530	NV	30	-42000.00	-7.594937	20	PASS
			NV	40	-42000.00	-7.594937	20	PASS
			NV	45	-42000.00	-7.594937	20	PASS
			NV	0	-42000.00	-7.594937	20	PASS
			NV	10	-42000.00	-7.594937	20	PASS
	Ant2	5530	NV	20	-42000.00	-7.594937	20	PASS
			NV	30	-42000.00	-7.594937	20	PASS
			NV	40	-42000.00	-7.594937	20	PASS
			NV	45	-42000.00	-7.594937	20	PASS
			NV	0	-42000.00	-7.594937	20	PASS
	Ant1	5610	NV	0	-42000.00	-7.486631	20	PASS

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			NV	10	-42000.00	-7.486631	20	PASS
			NV	20	-42000.00	-7.486631	20	PASS
			NV	30	-42000.00	-7.486631	20	PASS
			NV	40	-42000.00	-7.486631	20	PASS
			NV	45	-42000.00	-7.486631	20	PASS
	Ant2	5610	NV	0	-42000.00	-7.486631	20	PASS
			NV	10	-42000.00	-7.486631	20	PASS
			NV	20	-42000.00	-7.486631	20	PASS
			NV	30	-42000.00	-7.486631	20	PASS
			NV	40	-42000.00	-7.486631	20	PASS
	Ant1	5775	NV	45	-42000.00	-7.486631	20	PASS
			NV	0	-43500.00	-7.532468	20	PASS
			NV	10	-43500.00	-7.532468	20	PASS
			NV	20	-43500.00	-7.532468	20	PASS
			NV	30	-43500.00	-7.532468	20	PASS
	Ant2	5775	NV	40	-43500.00	-7.532468	20	PASS
			NV	45	-43500.00	-7.532468	20	PASS
			NV	0	-43500.00	-7.532468	20	PASS
			NV	10	-43500.00	-7.532468	20	PASS
			NV	20	-43500.00	-7.532468	20	PASS
			NV	30	-43500.00	-7.532468	20	PASS
			NV	40	-43500.00	-7.532468	20	PASS
			NV	45	-43500.00	-7.532468	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

Pass.



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

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

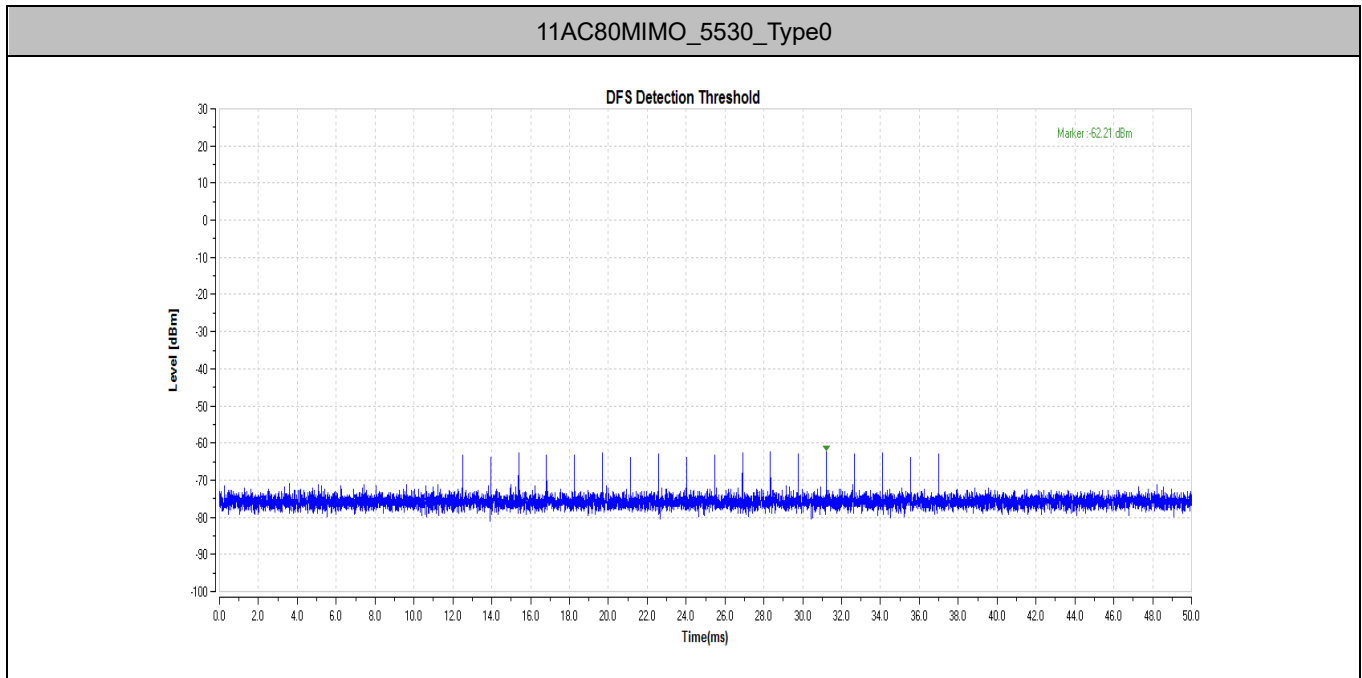
For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

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.





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 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.

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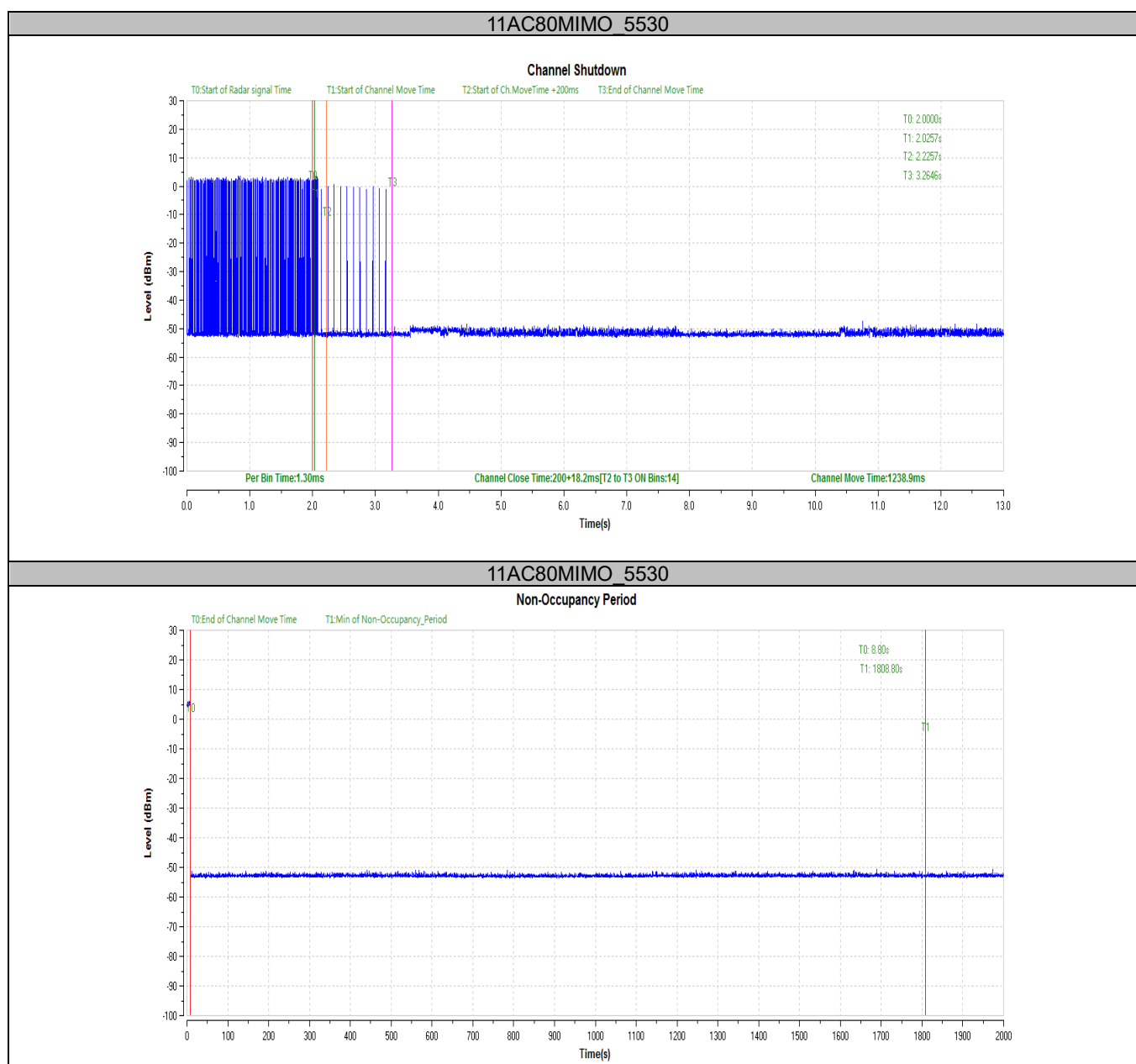
**Test Mode**

Please refer to the clause 2.4.

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

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

TestMode	Frequency [MHz]	CCT [ms]	Limit[ms]	CMT [ms]	Limit[ms]	Verdict
11AC80MIMO	5530	200+18.2	200+60	1238.9	10000	PASS
TestMode	Frequency [MHz]	Result			Limit[s]	Verdict
11AC80MIMO	5530	see test graph			≥1800	PASS



*****THE END OF REPORT*****

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