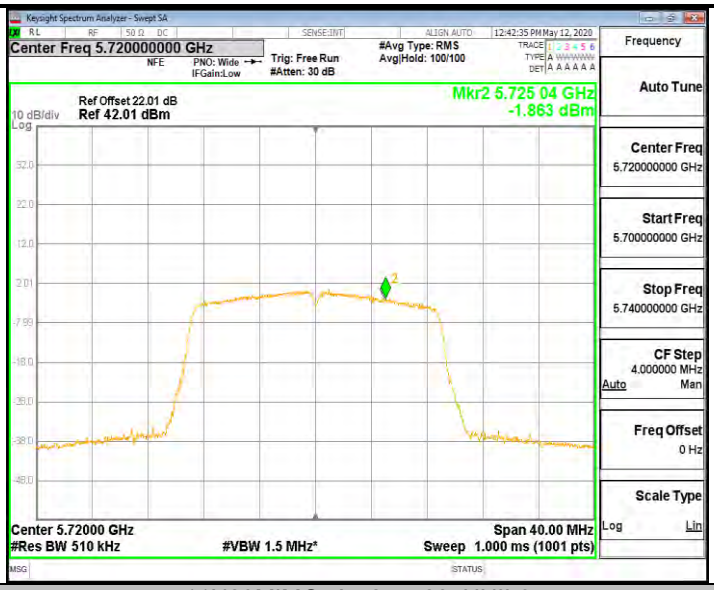

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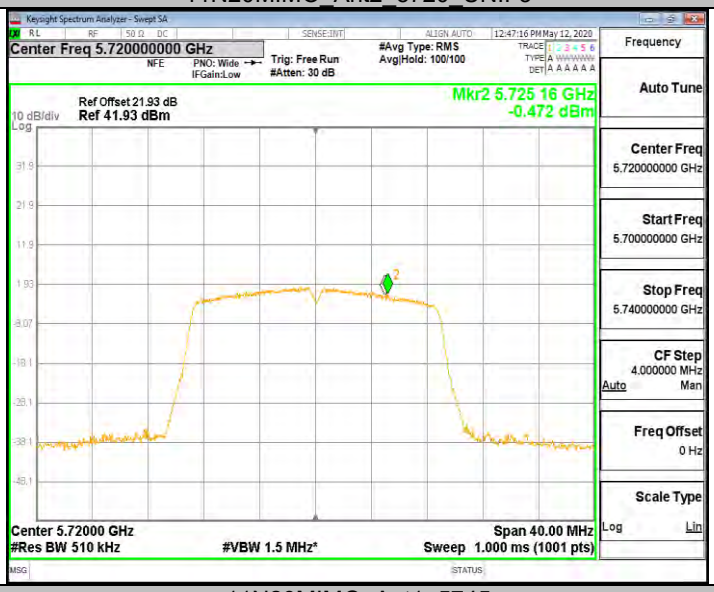

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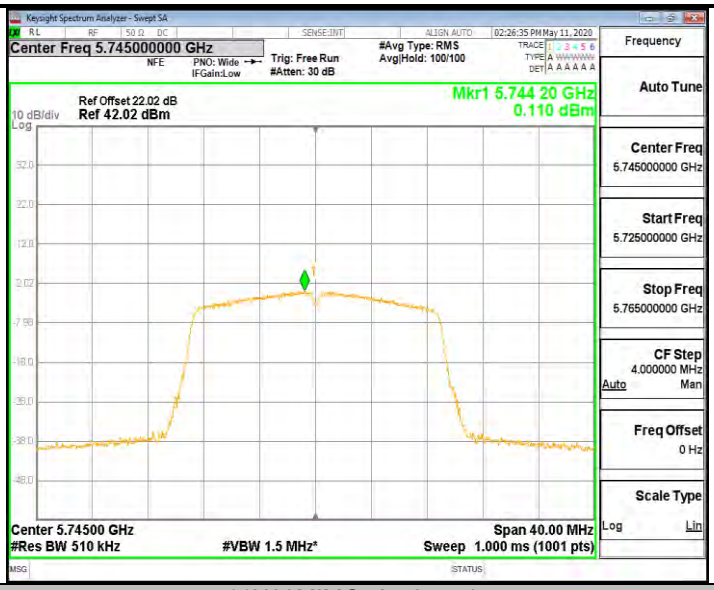
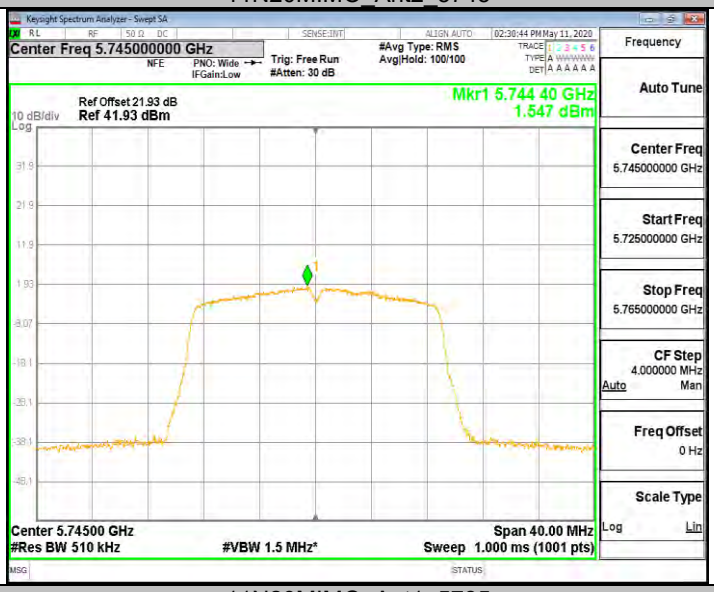


11N20MIMO_Ant2_5745



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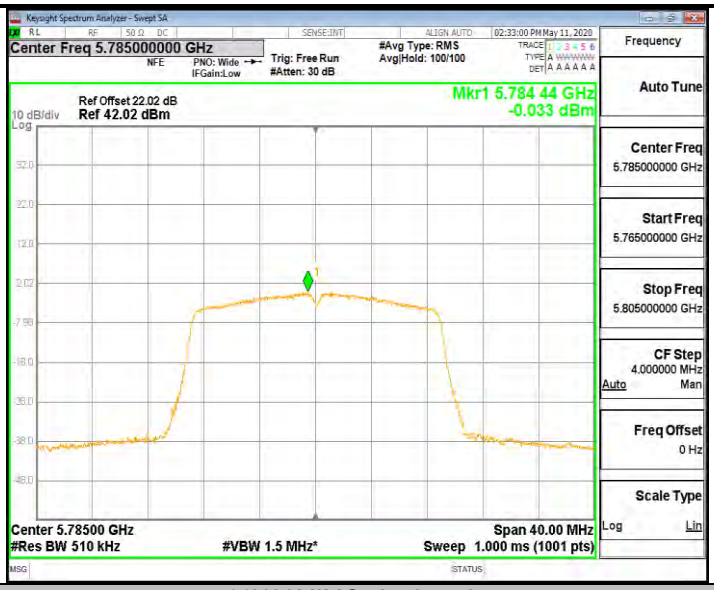
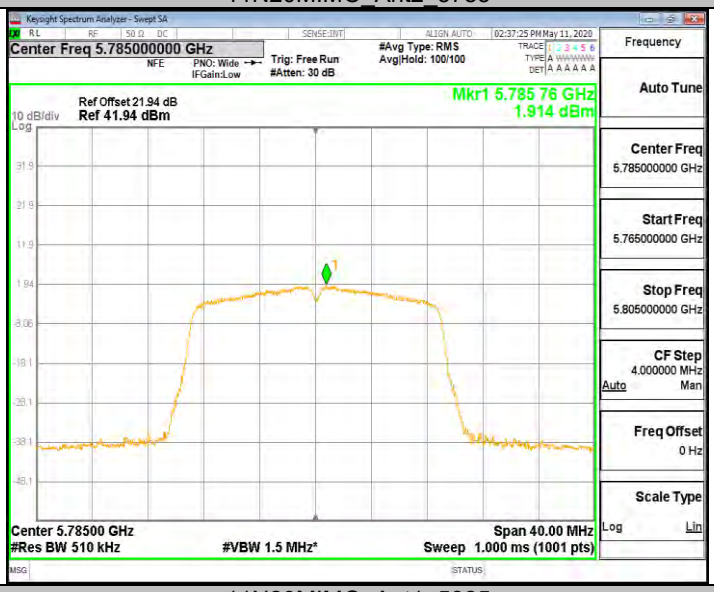


11N20MIMO_Ant2_5785



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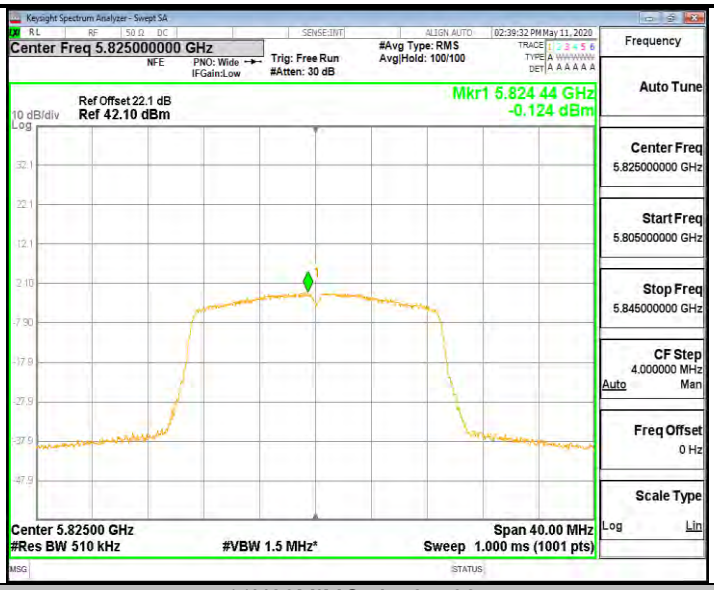

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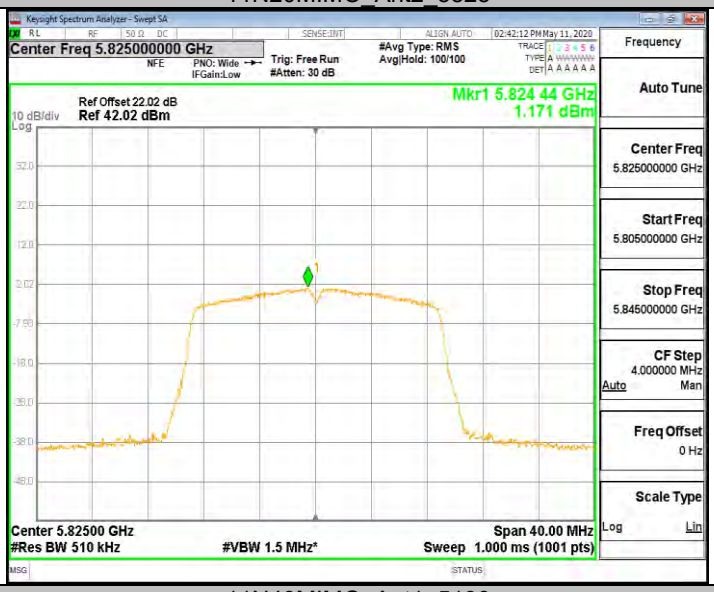

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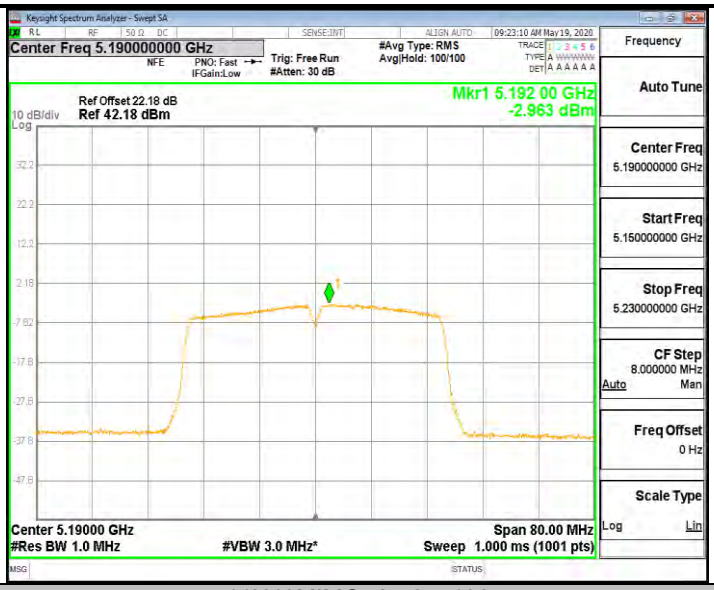

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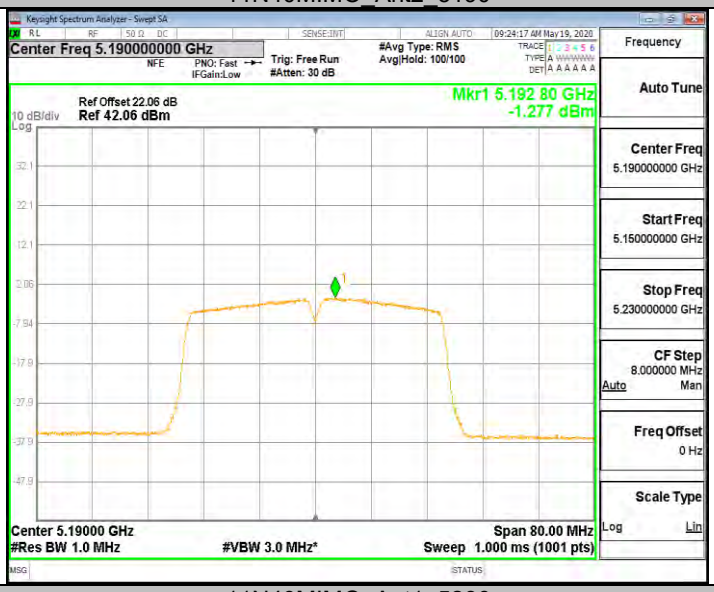

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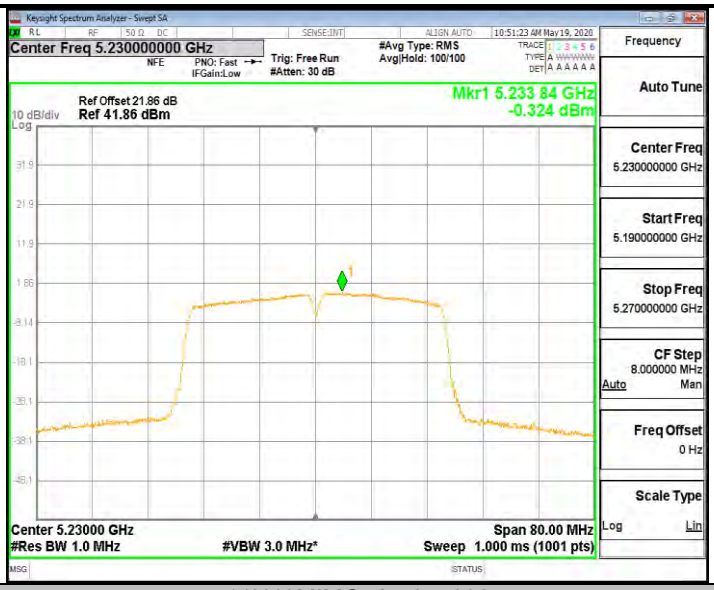

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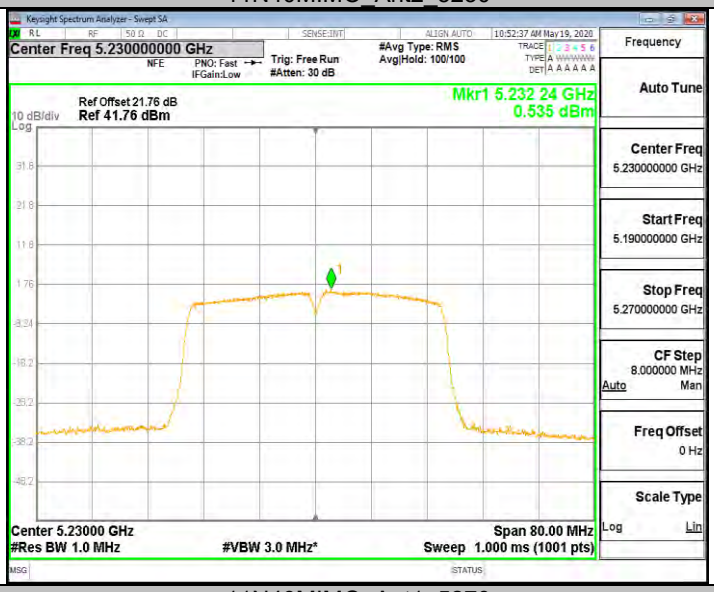

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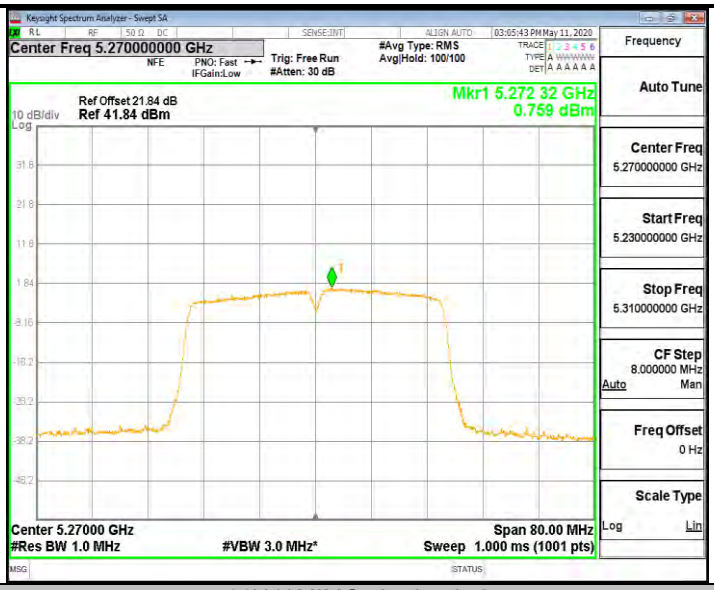

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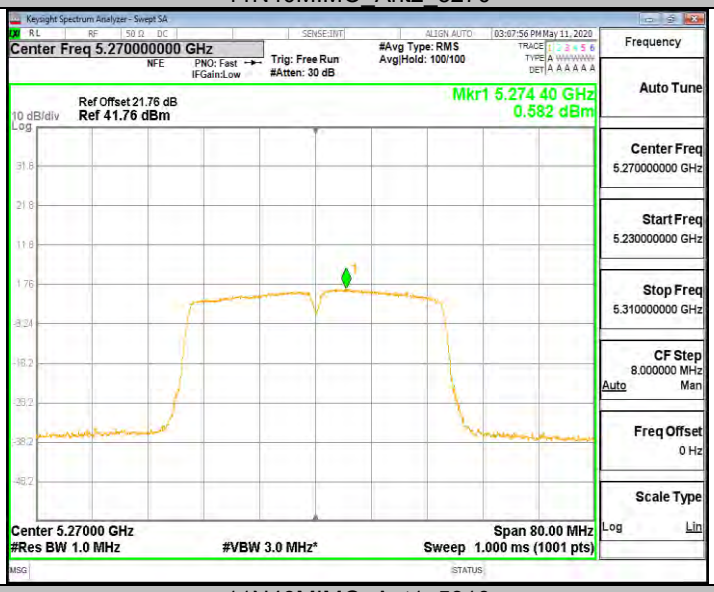

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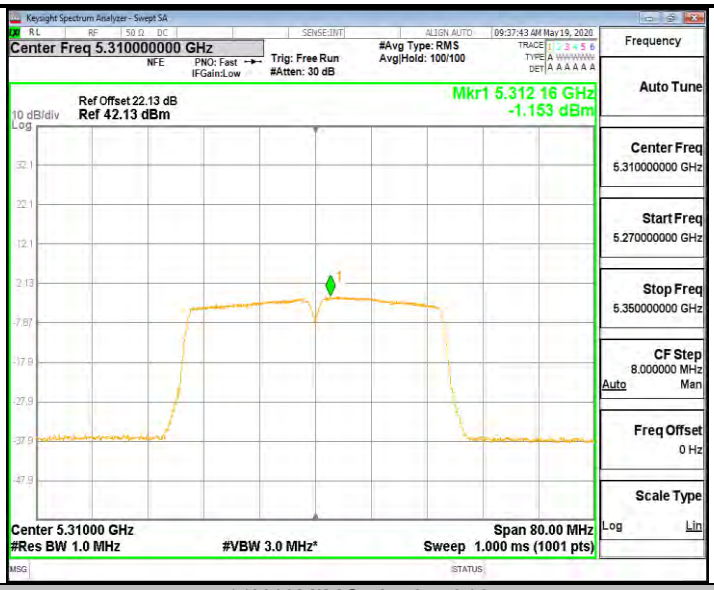

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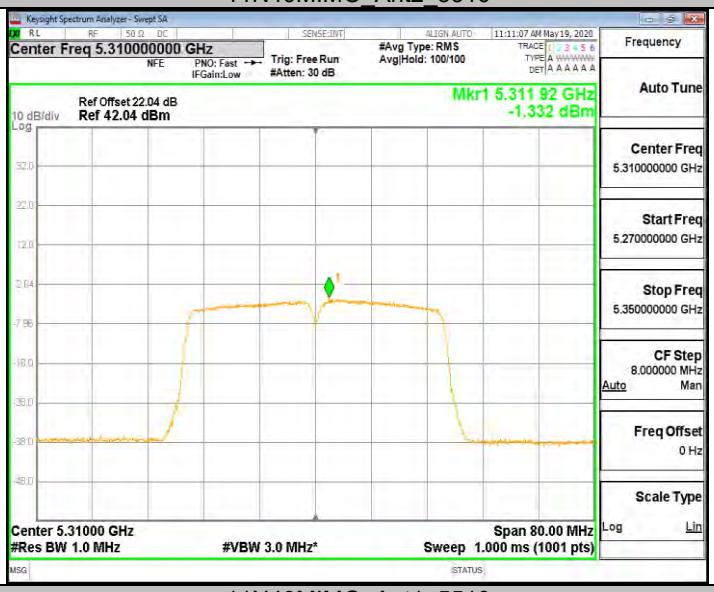

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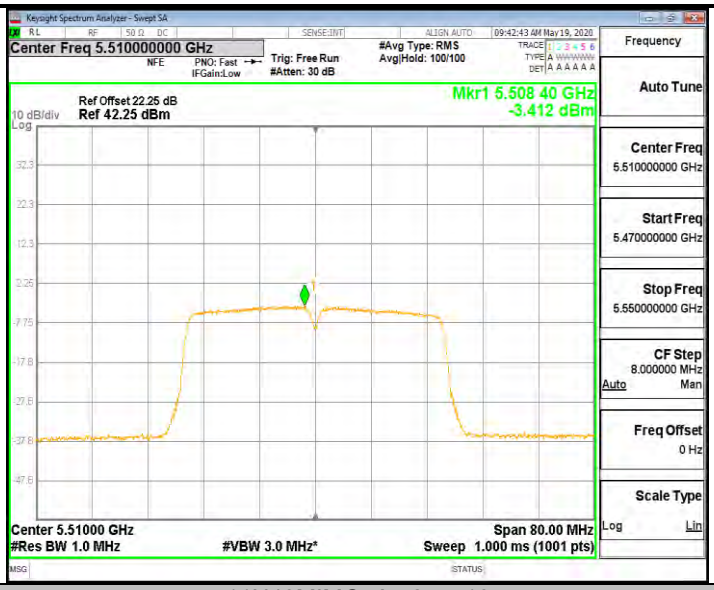

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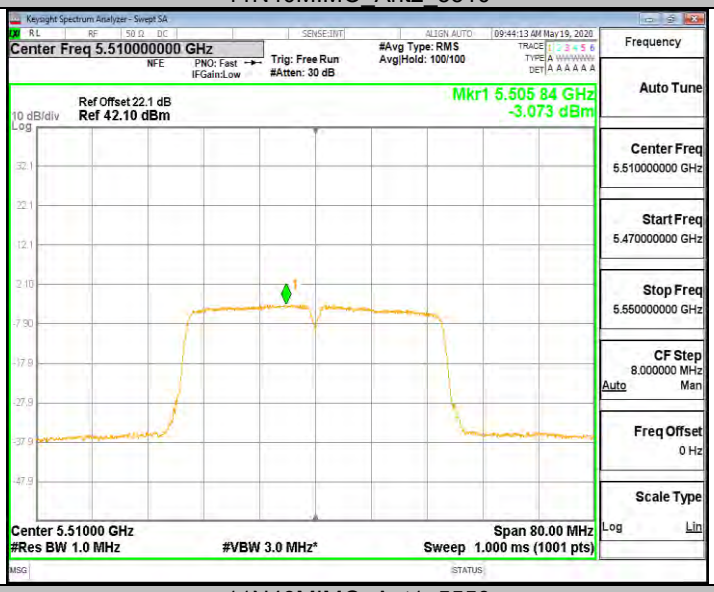

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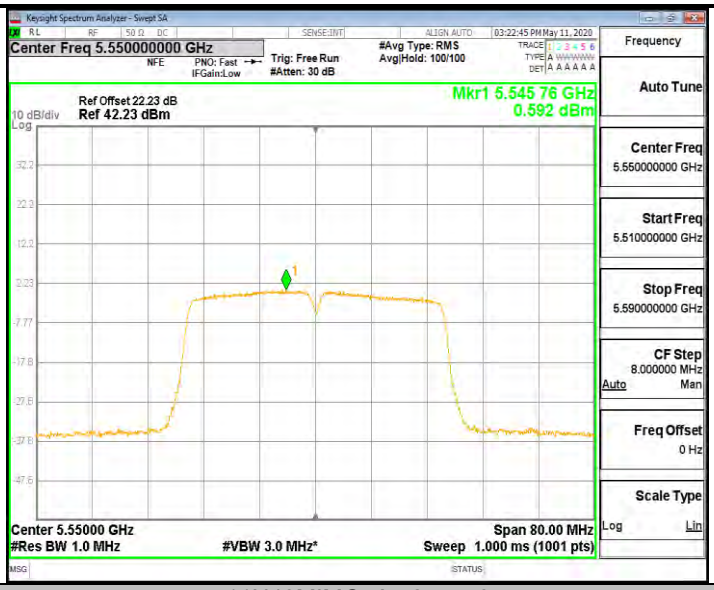

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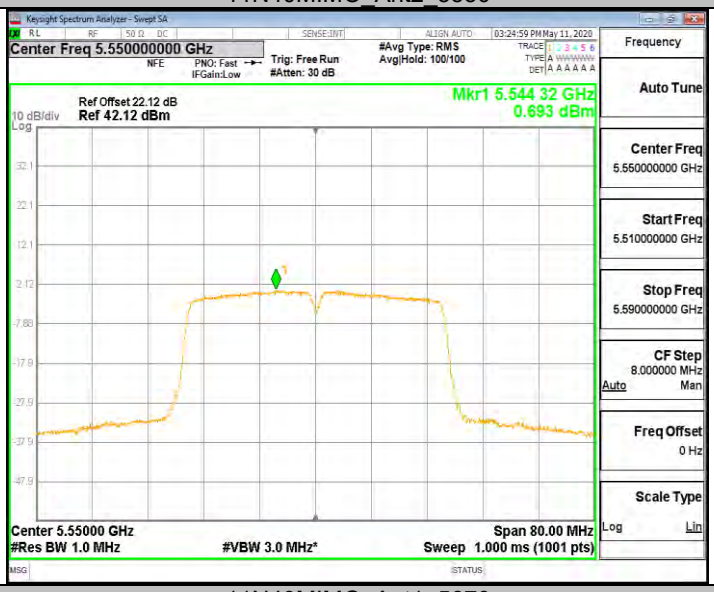

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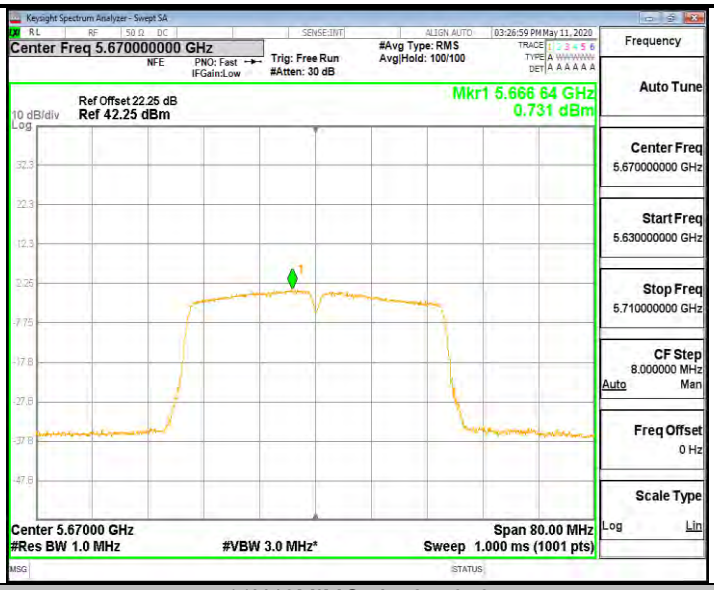
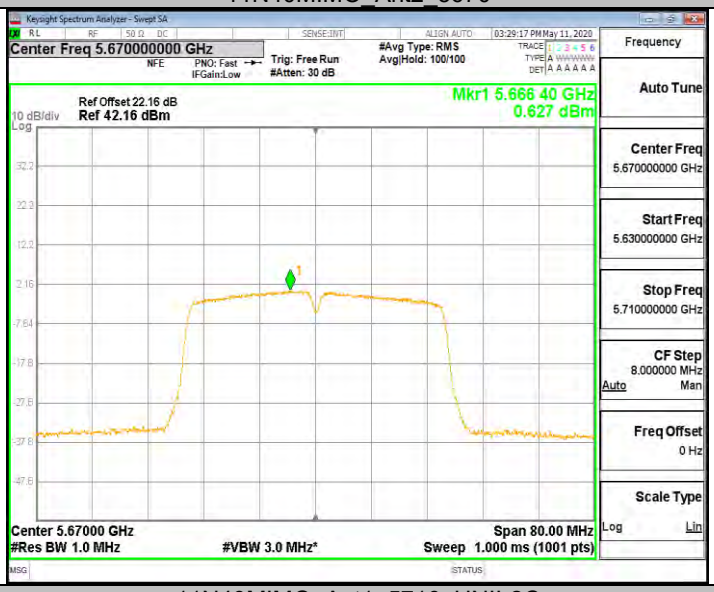
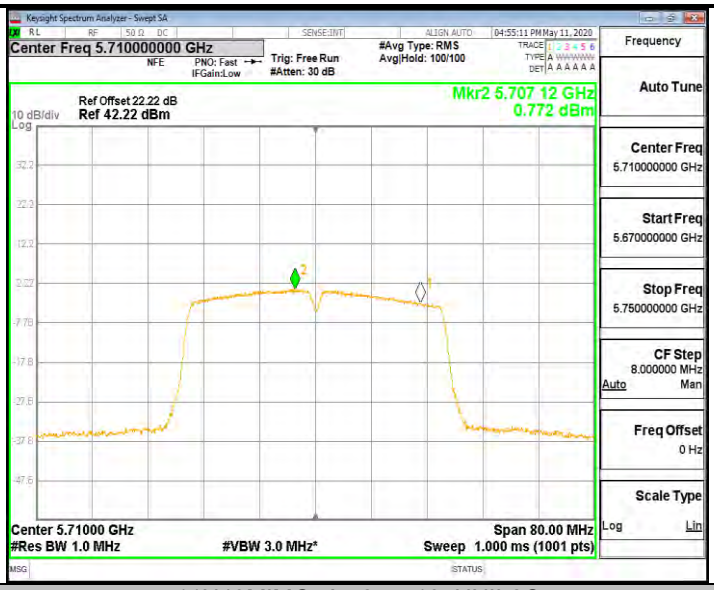


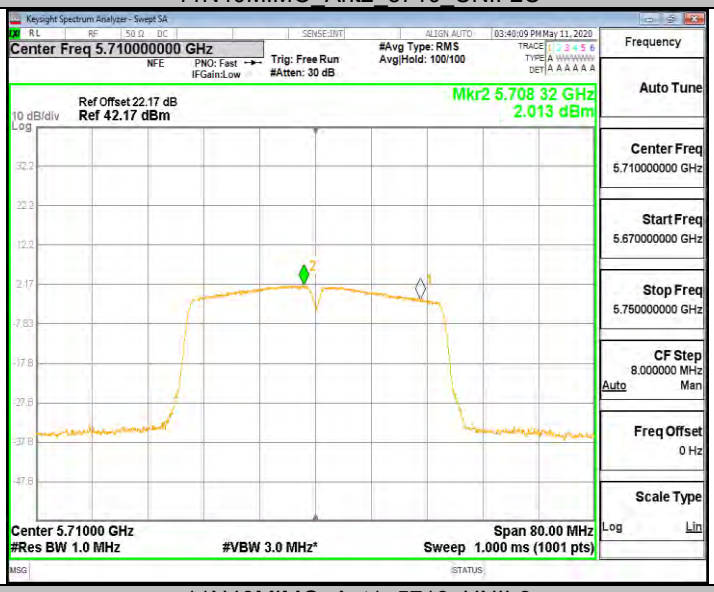
11N40MIMO_Ant2_5670



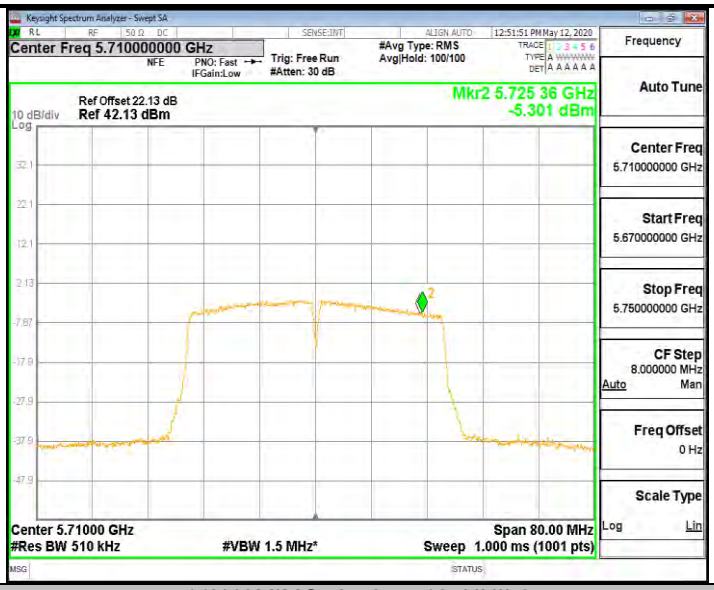
11N40MIMO_Ant1_5710_UNII-2C



11N40MIMO_Ant2_5710_UNII-2C



11N40MIMO_Ant1_5710_UNII-3



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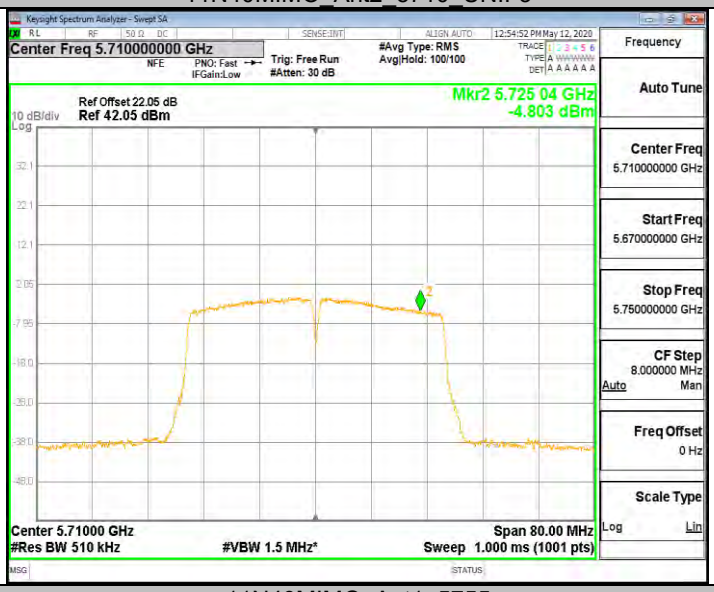

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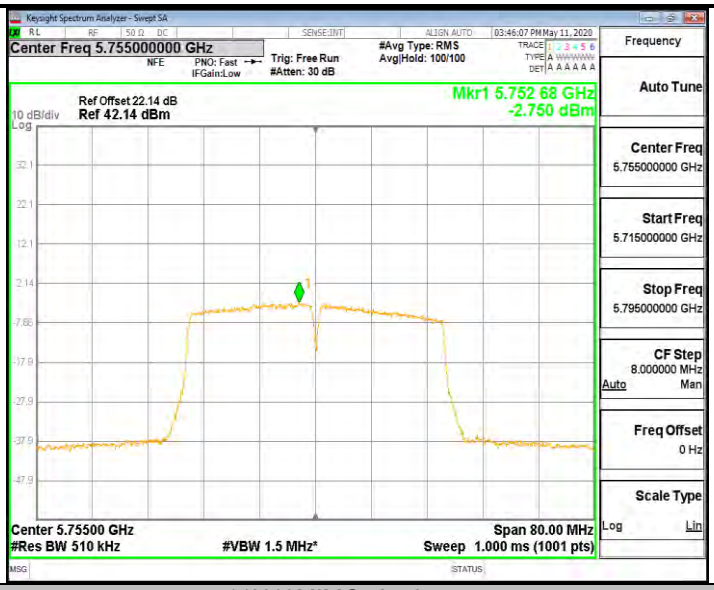
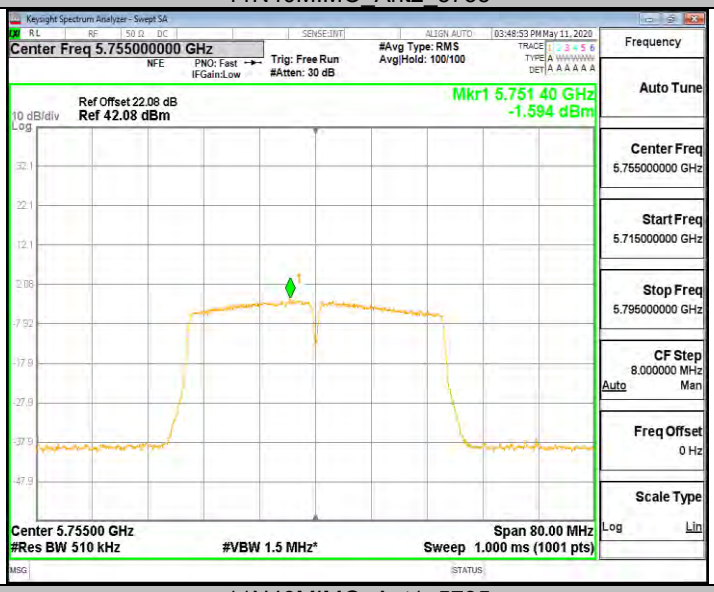


11N40MIMO_Ant2_5755



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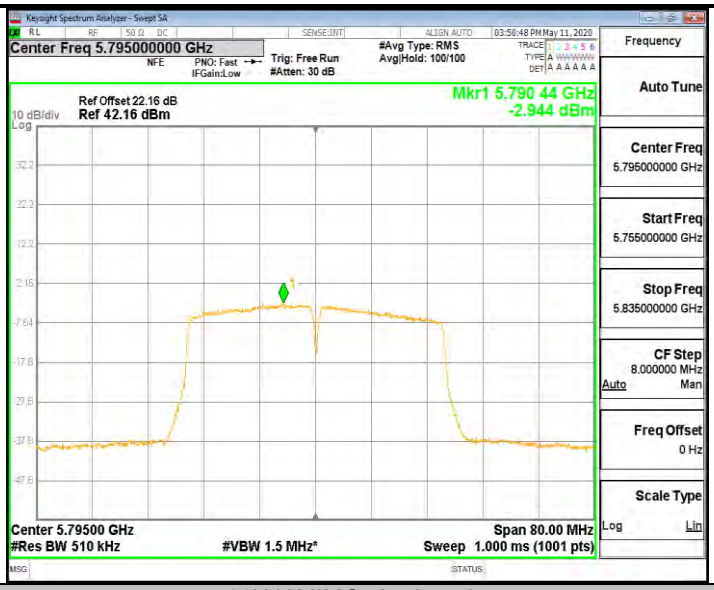
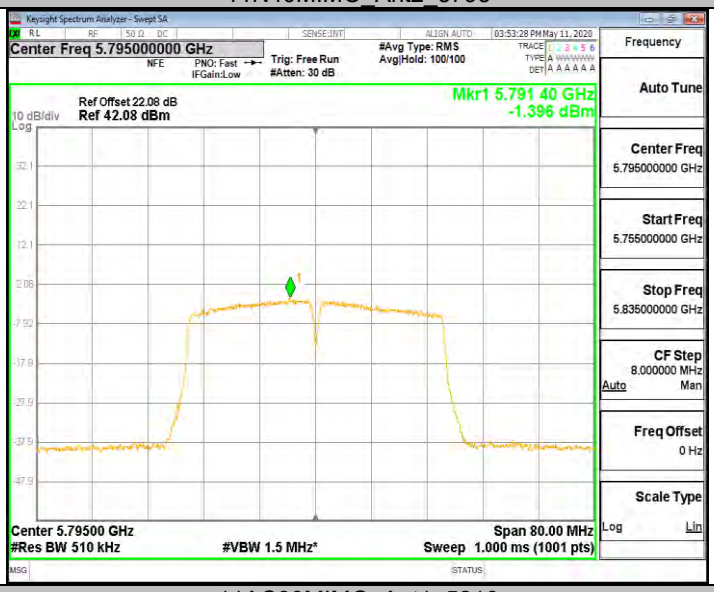


11N40MIMO_Ant2_5795



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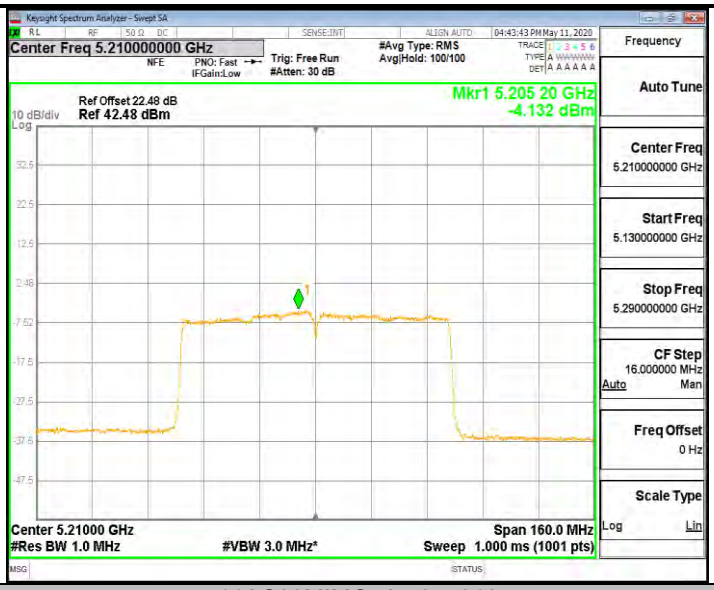

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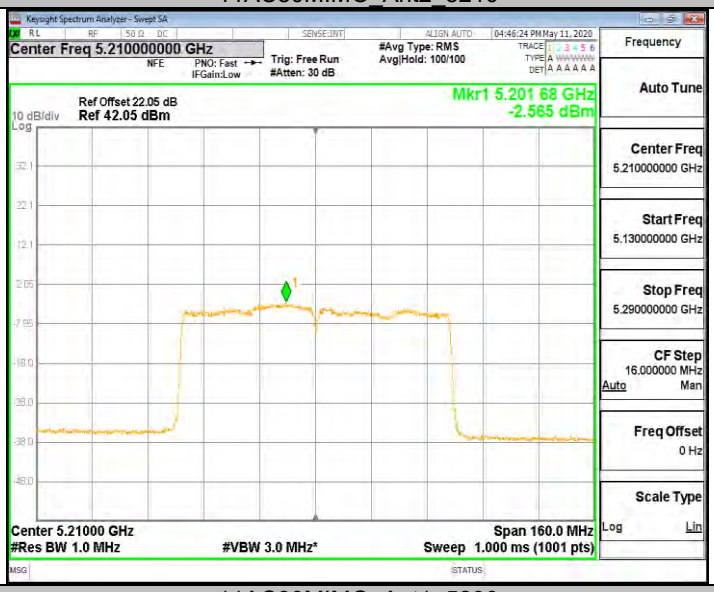
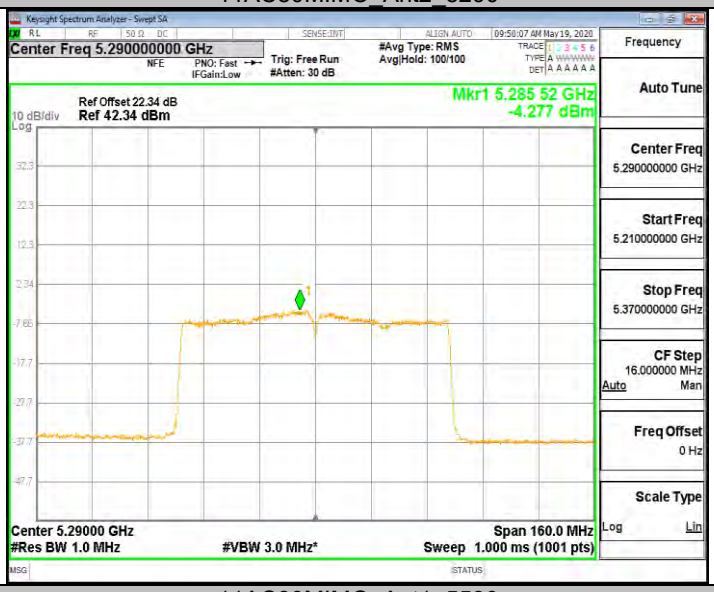
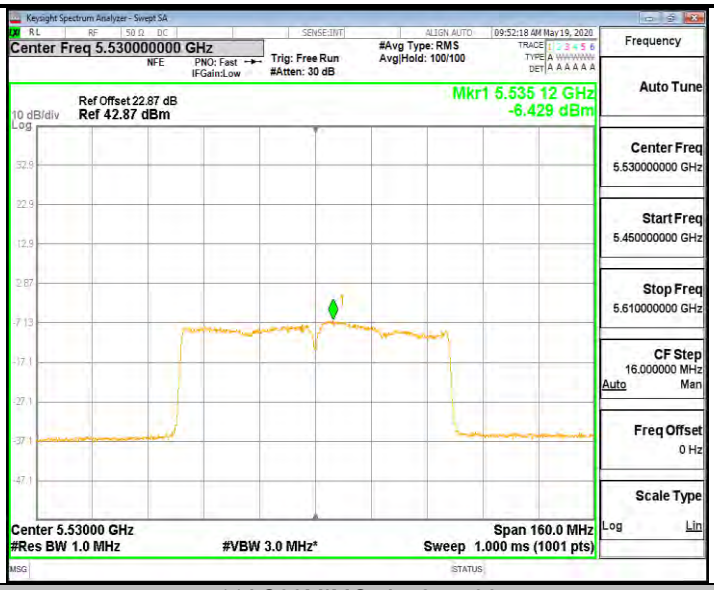


11AC80MIMO_Ant1_5290

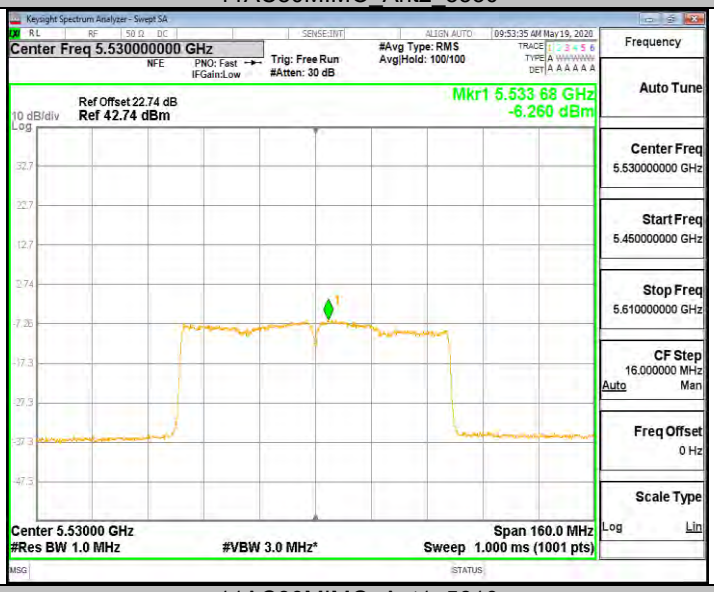
11AC80MIMO_Ant2_5290



11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530



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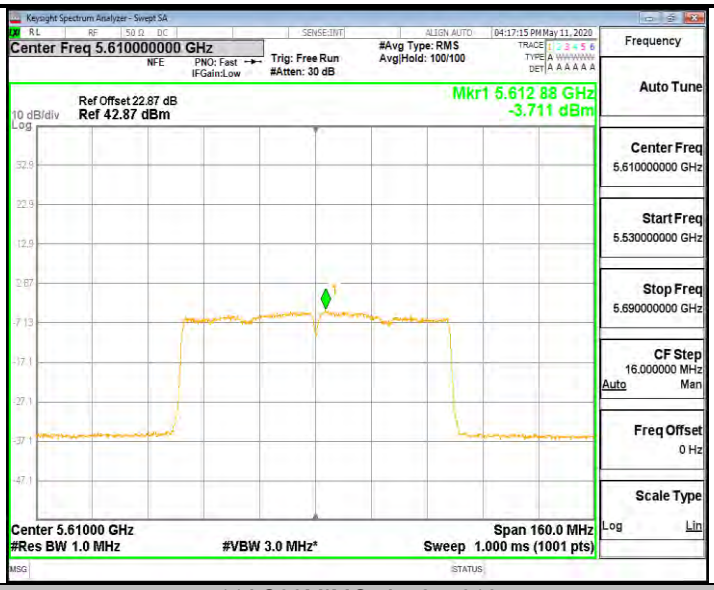
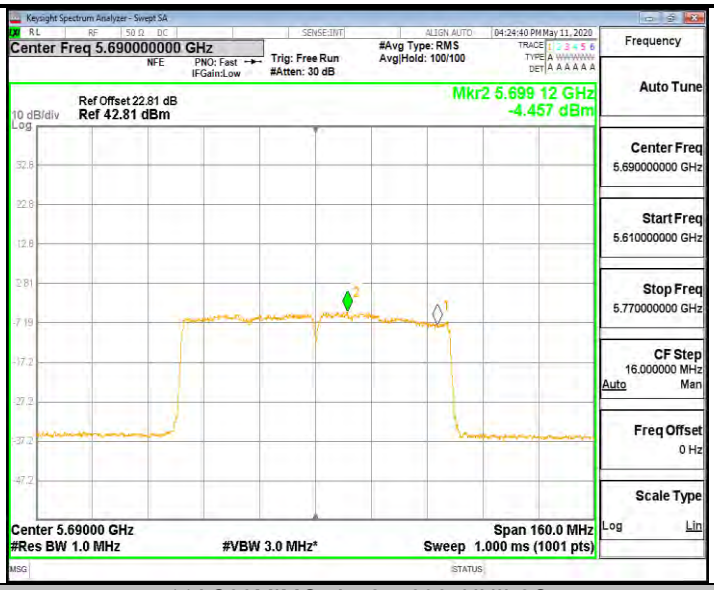


11AC80MIMO_Ant2_5610

11AC80MIMO_Ant1_5690_UNII-2C



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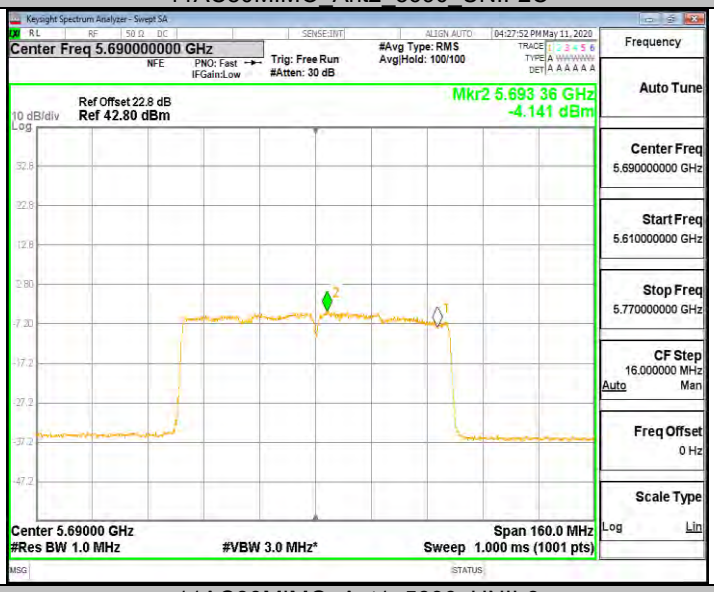

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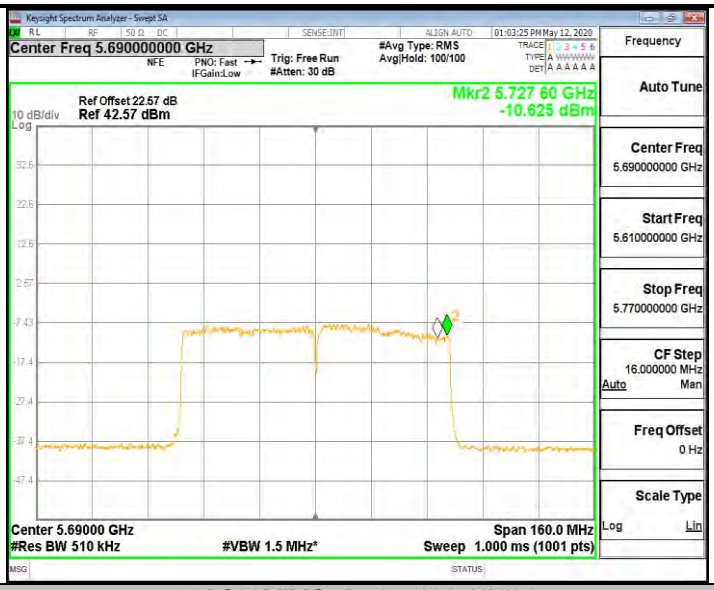

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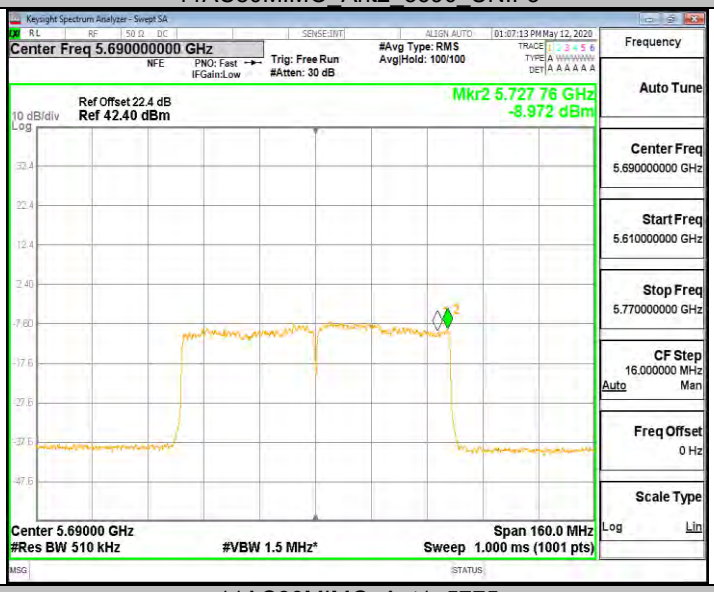

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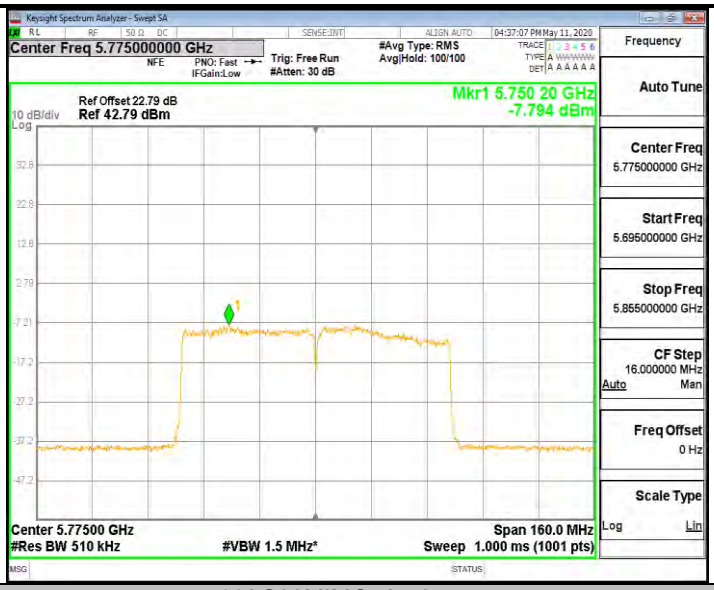

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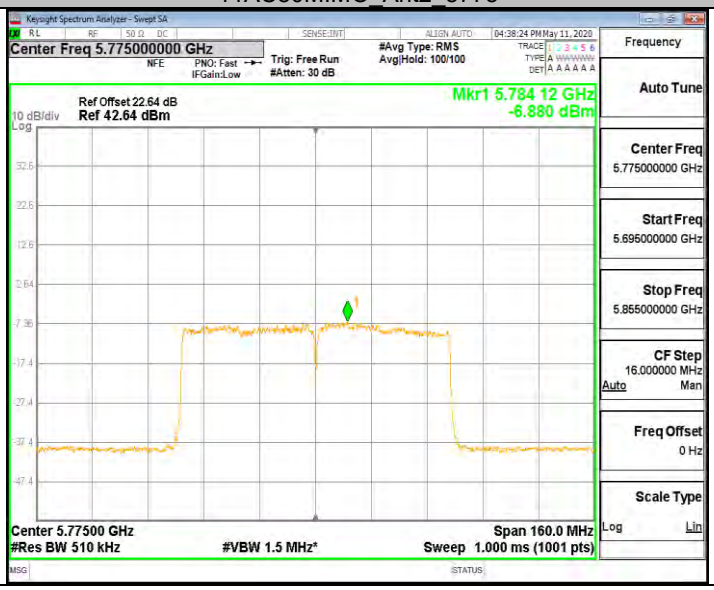


13.6. Appendix D: Duty Cycle

13.6.1. Test Result

Mode	ON Time (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (KHz)	Final setting For VBW (KHz)
802.11a 20	1.39	1.43	0.9734	97.34%	0.12	0.72	1
802.11n HT20	1.30	1.34	0.9715	97.15%	0.13	0.77	1
802.11n HT40	0.64	0.68	0.9443	94.43%	1.06	1.56	2
802.11 ac VHT80	0.93	1.56	0.5962	59.62%	1.68	1.08	2

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.
Antenna 1 and Antenna 2 has the same duty cycle, only Antenna 1 data show here.

13.6.2. Test Graphs

11A_Ant1_5180

11N20MIMO_Ant1_5180

11N40MIMO_Ant1_5190

11AC80MIMO_Ant1_5210

13.7. Appendix E: Frequency Stability

13.7.1. Test Result

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5200.0198	3.81	5200.0177	3.40	5200.0256	4.92	5200.0179	3.44
TN	VN	5200.0213	4.10	5200.0201	3.87	5200.0213	4.10	5200.0259	4.98
TN	VH	5200.0189	3.63	5200.0178	3.42	5200.0189	3.63	5200.0197	3.79
Frequency Error vs. Temperature									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5200.0231	4.44	5200.0198	3.81	5200.0180	3.46	5200.0211	4.06
30	VN	5200.0179	3.44	5200.0189	3.63	5200.0199	3.83	5200.0231	4.44
20	VN	5200.0255	4.90	5200.0160	3.08	5200.0186	3.58	5200.0206	3.96
10	VN	5200.0189	3.63	5200.0243	4.67	5200.0170	3.27	5200.0180	3.46
0	VN	5200.0177	3.40	5200.0212	4.08	5200.0211	4.06	5200.0201	3.87

Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.0301	5.17	5825.0221	3.79	5825.0211	3.62	5825.0210	3.61
TN	VN	5825.0213	3.66	5825.0140	2.40	5825.0269	4.62	5825.0187	3.21
TN	VH	5825.0188	3.23	5825.0176	3.02	5825.0212	3.64	5825.0231	3.97
Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5825.0199	3.42	5825.0199	3.42	5825.0233	4.00	5825.0311	5.34
30	VN	5825.0209	3.59	5825.0211	3.62	5825.0241	4.14	5825.0312	5.36
20	VN	5825.0145	2.49	5825.0234	4.02	5825.0209	3.59	5825.0288	4.94
10	VN	5825.0311	5.34	5825.0289	4.96	5825.0266	4.57	5825.0266	4.57
0	VN	5825.0289	4.96	5825.0283	4.86	5825.0210	3.61	5825.0239	4.10

Note: All the test modes have been tested, only the worst data record in the report.

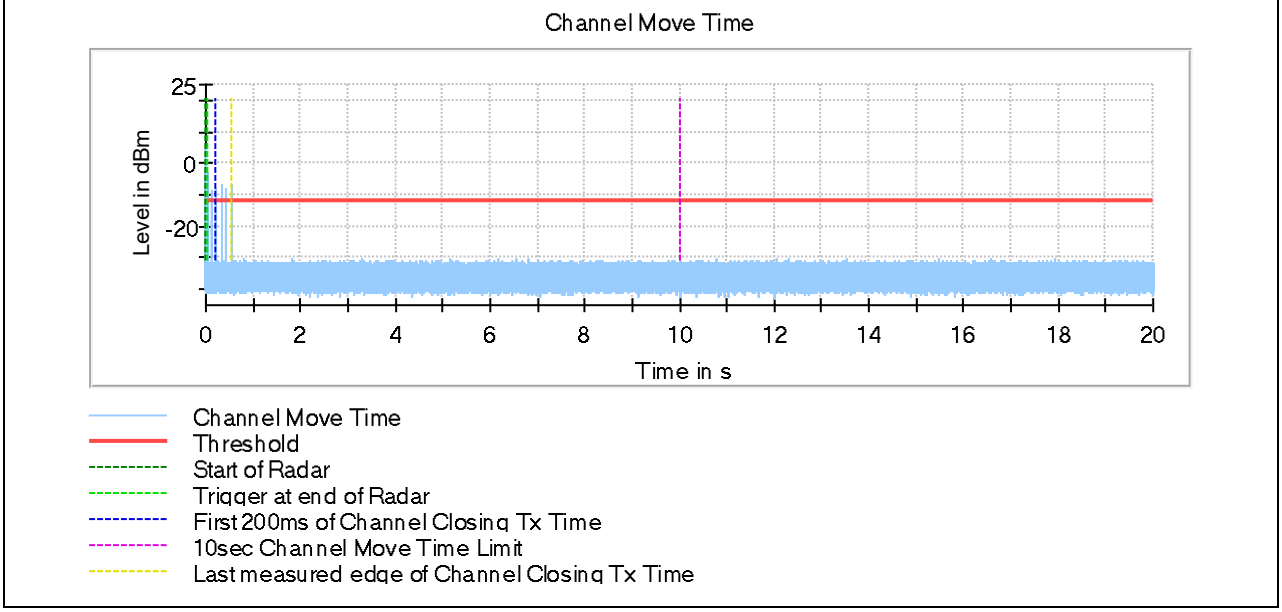
13.8. Appendix F: Dynamic Frequency Selection

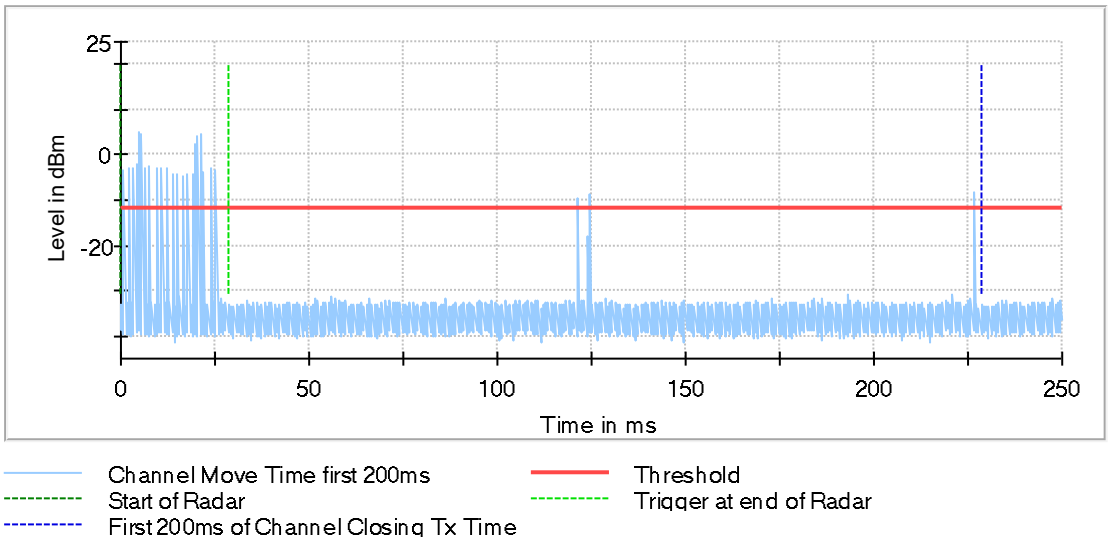
13.8.1. Test Result

802.11ac VHT80 Mode

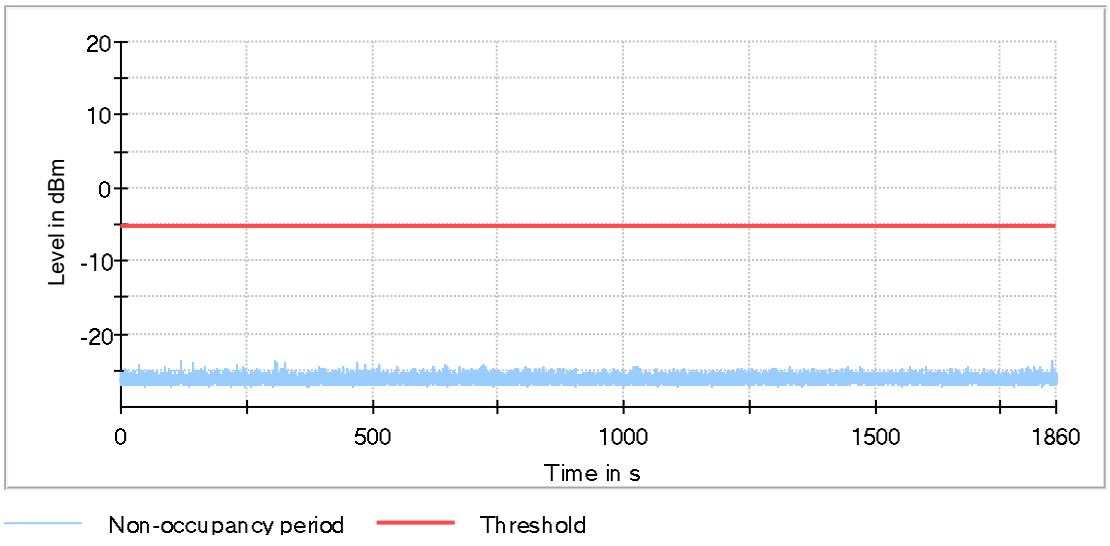
BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5290MHz	Channel Move Time	0.506S	＜10 s	pass
	Channel Closing Transmission Time	0.024S	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	pass
	Non-Occupancy Period	Nothing appears	If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.	pass

Channel Move Time & Channel Closing Transmission Time





Non-Occupancy Period



END OF REPORT