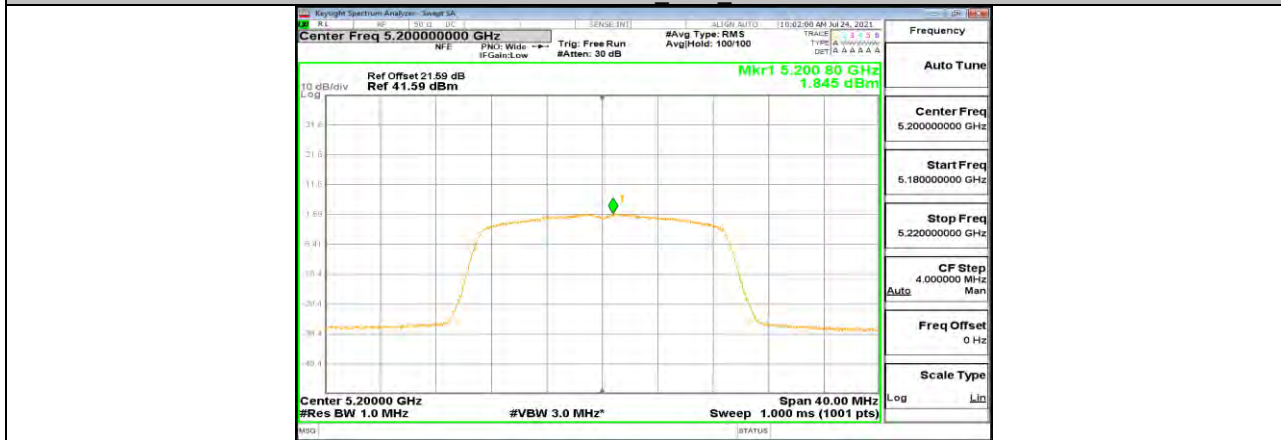


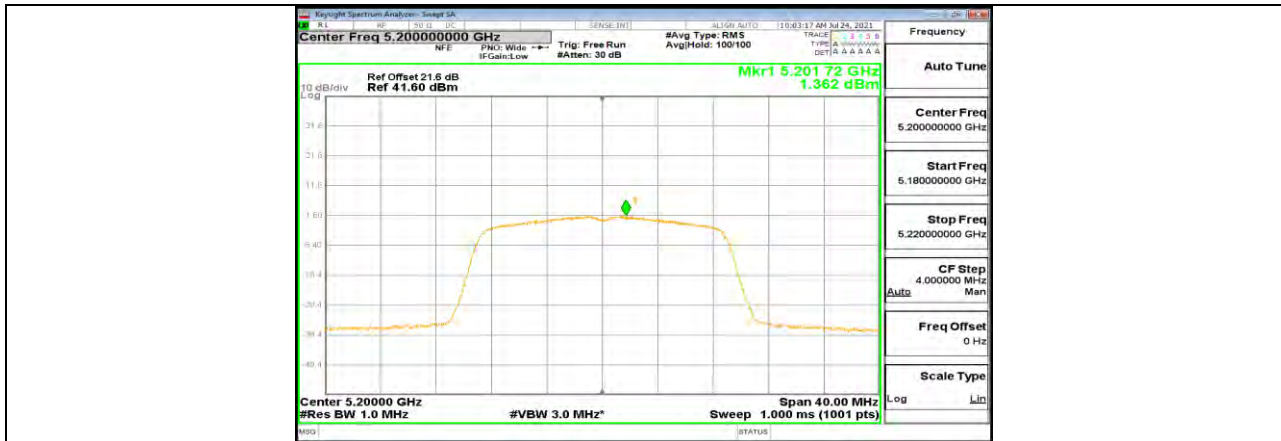
11AC20MIMO Ant1 5180



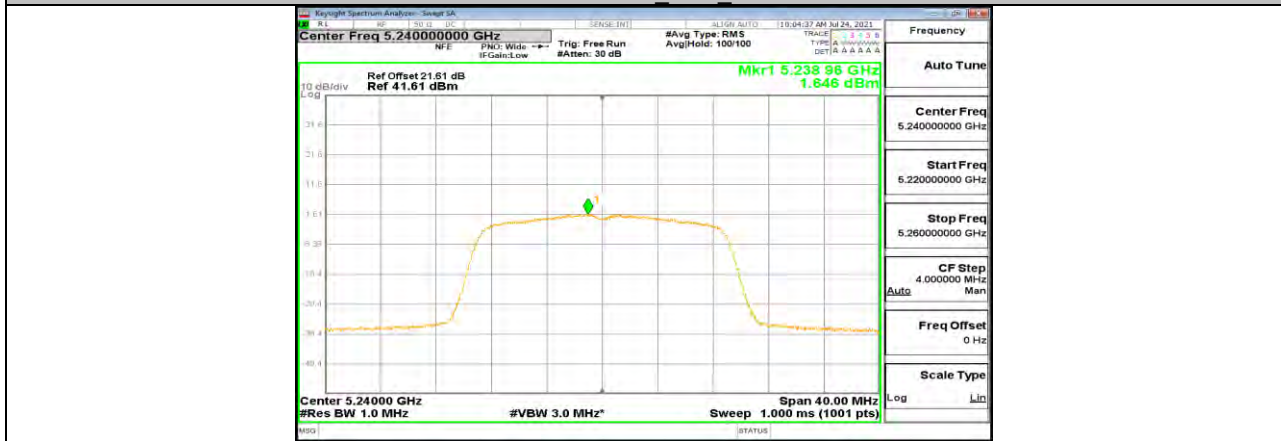
11AC20MIMO Ant2 5180



11AC20MIMO Ant1 5200



11AC20MIMO Ant2 5200



11AC20MIMO Ant1 5240



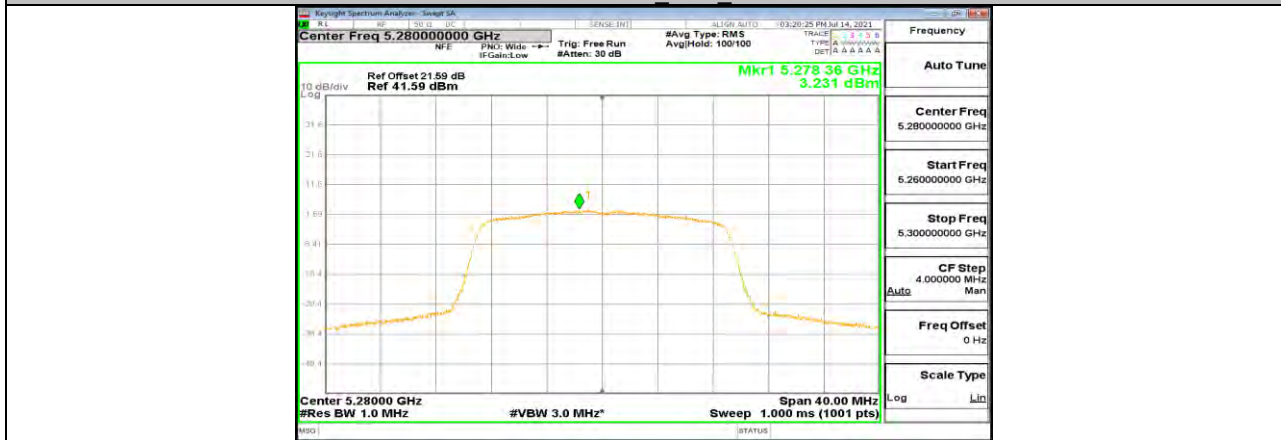
11AC20MIMO Ant2 5240



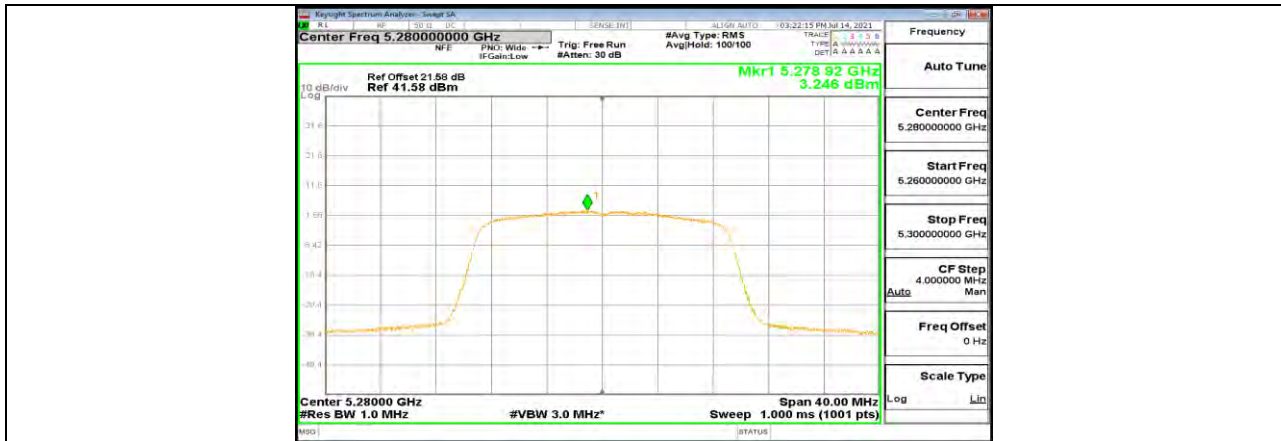
11AC20MIMO Ant1 5260



11AC20MIMO Ant2 5260



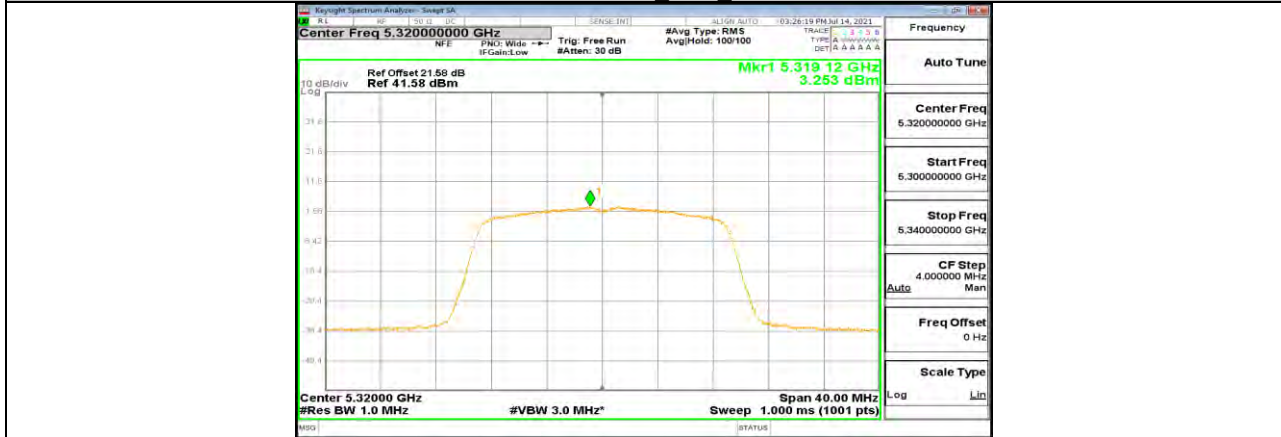
11AC20MIMO Ant1 5280



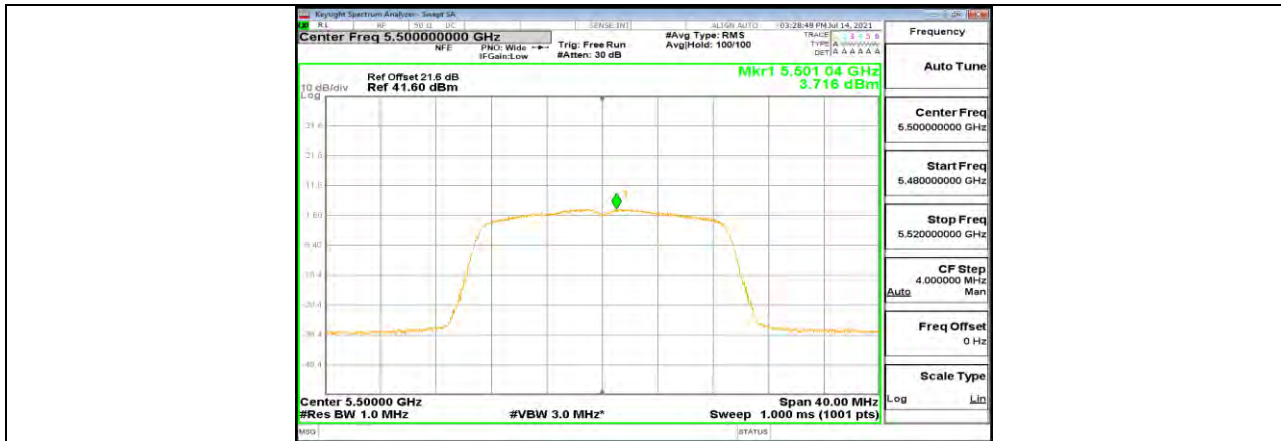
11AC20MIMO_Ant2_5280



11AC20MIMO_Ant1_5320



11AC20MIMO_Ant2_5320



11AC20MIMO Ant1 5500



11AC20MIMO Ant2 5500



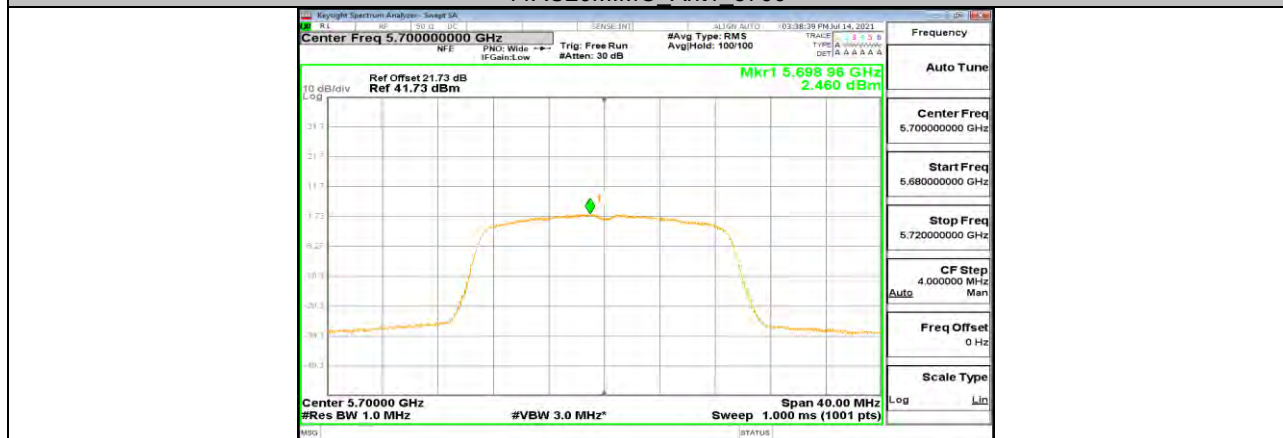
11AC20MIMO Ant1 5580



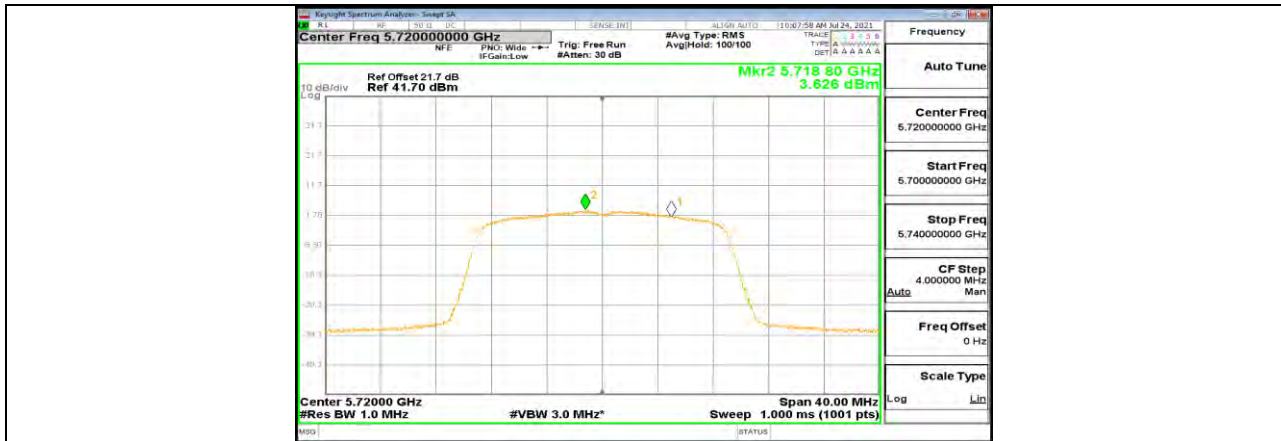
11AC20MIMO_Ant2_5580



11AC20MIMO_Ant1_5700



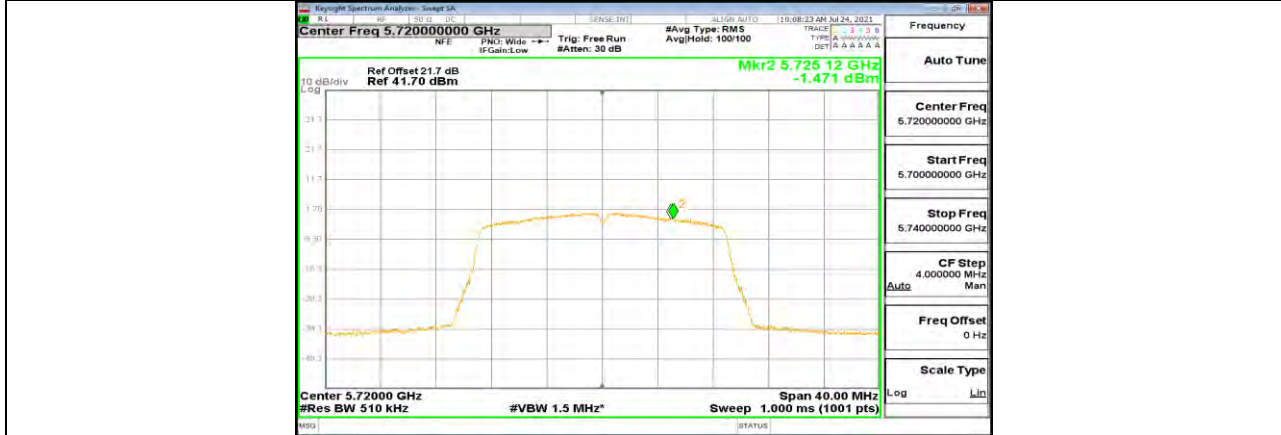
11AC20MIMO_Ant2_5700



11AC20MIMO Ant1 5720 UNII-2C



11AC20MIMO Ant2 5720 UNII-2C



11AC20MIMO Ant1 5720 UNII-3



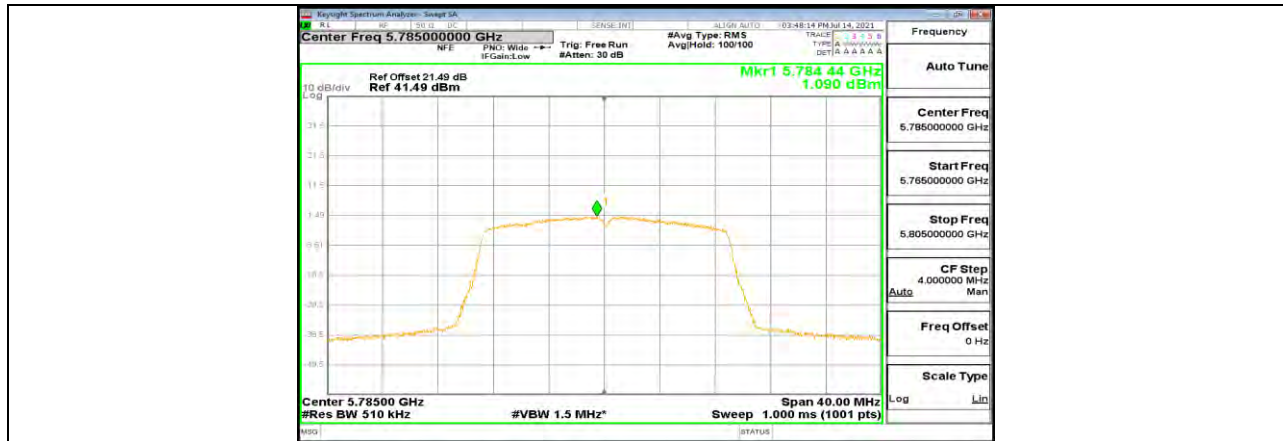
11AC20MIMO Ant2 5720 UNII-3



11AC20MIMO Ant1 5745



11AC20MIMO Ant2 5745



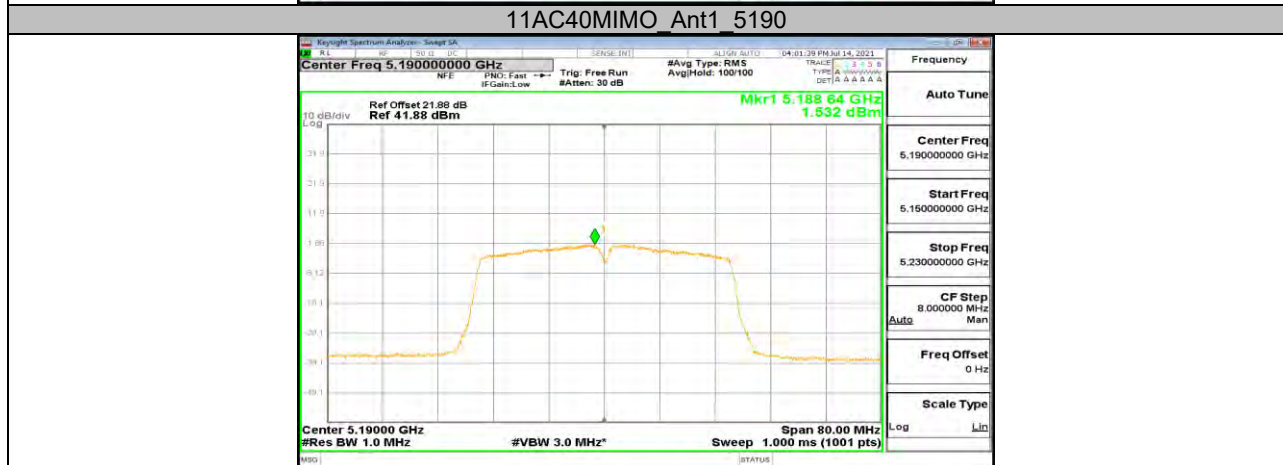
11AC20MIMO Ant1 5785

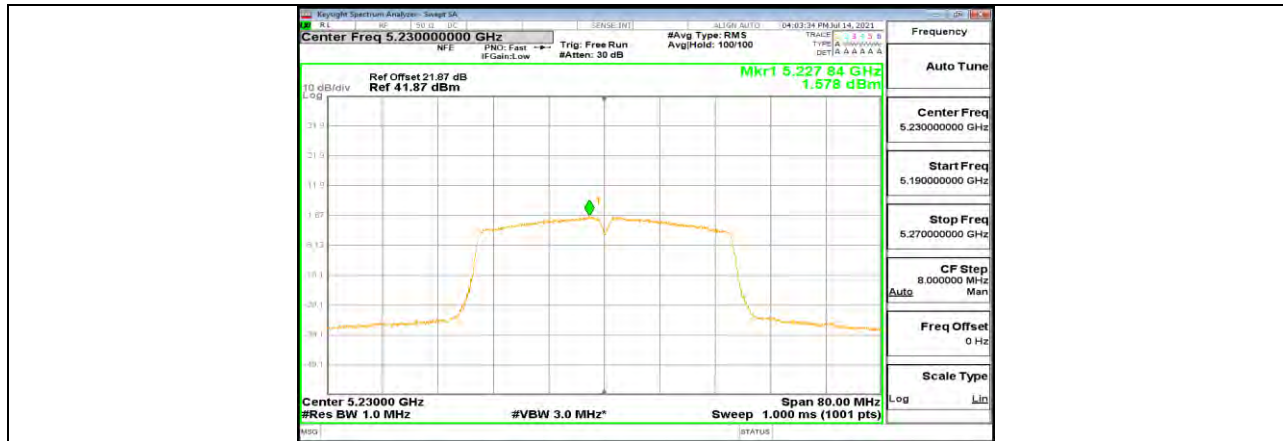


11AC20MIMO Ant2 5785

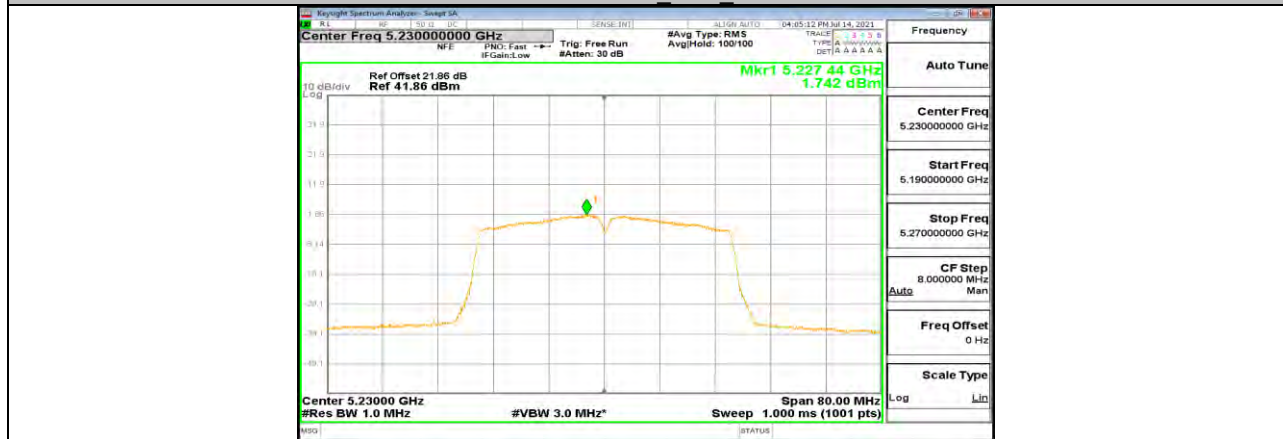


11AC20MIMO Ant1 5825





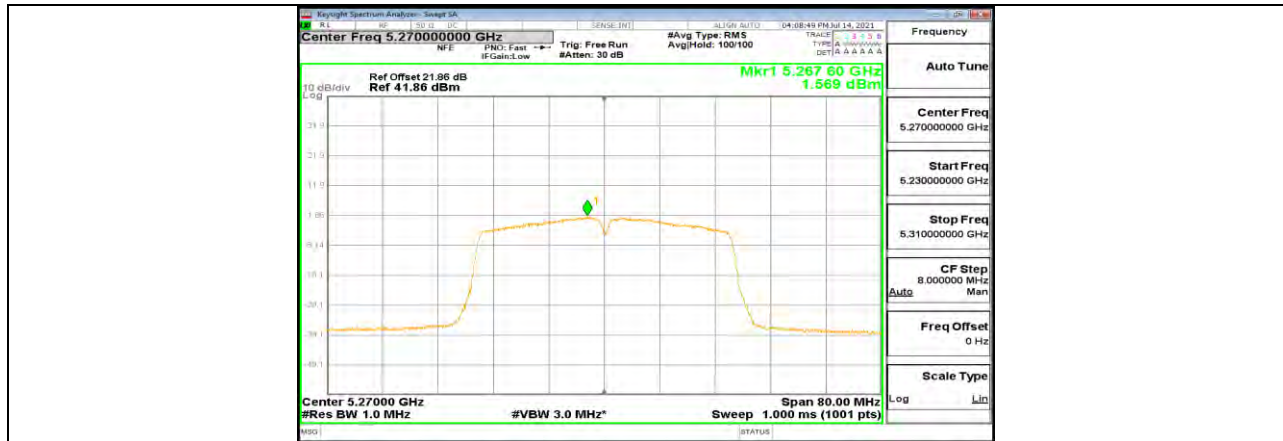
11AC40MIMO Ant1 5230



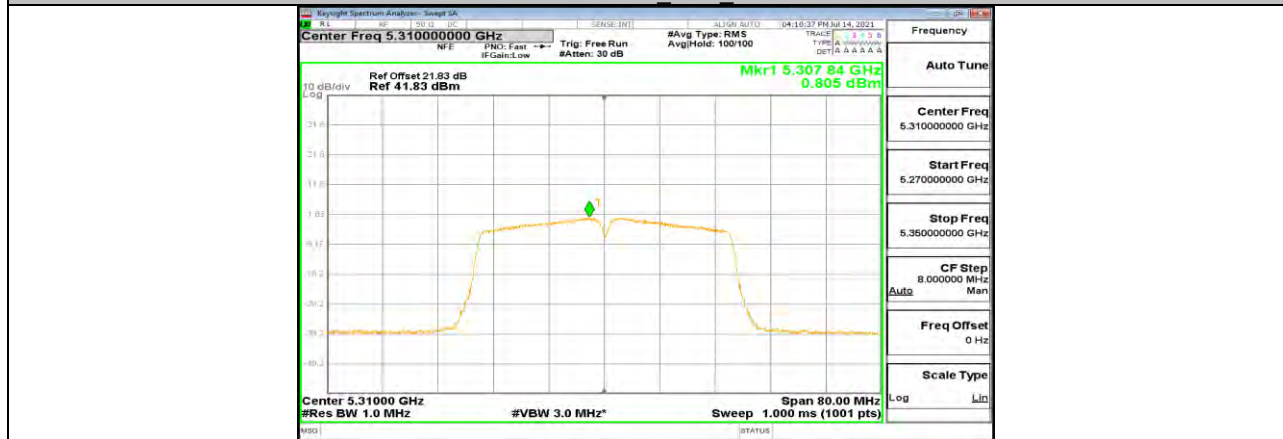
11AC40MIMO Ant2 5230



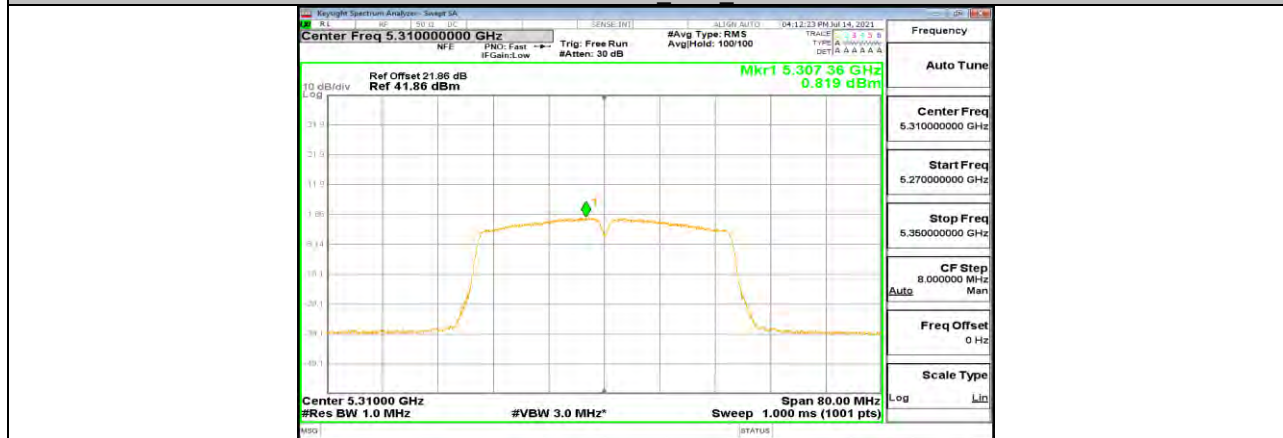
11AC40MIMO Ant1 5270



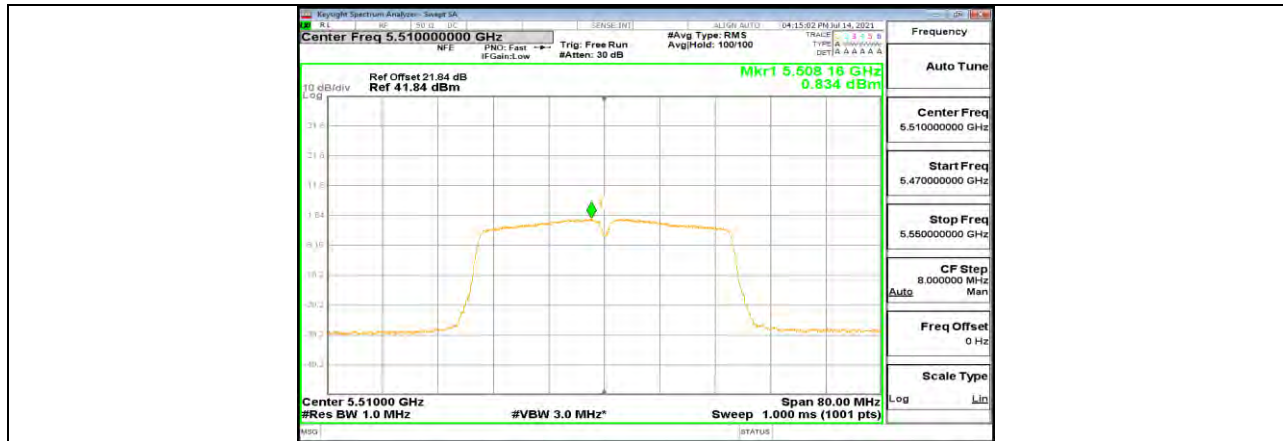
11AC40MIMO_Ant2_5270



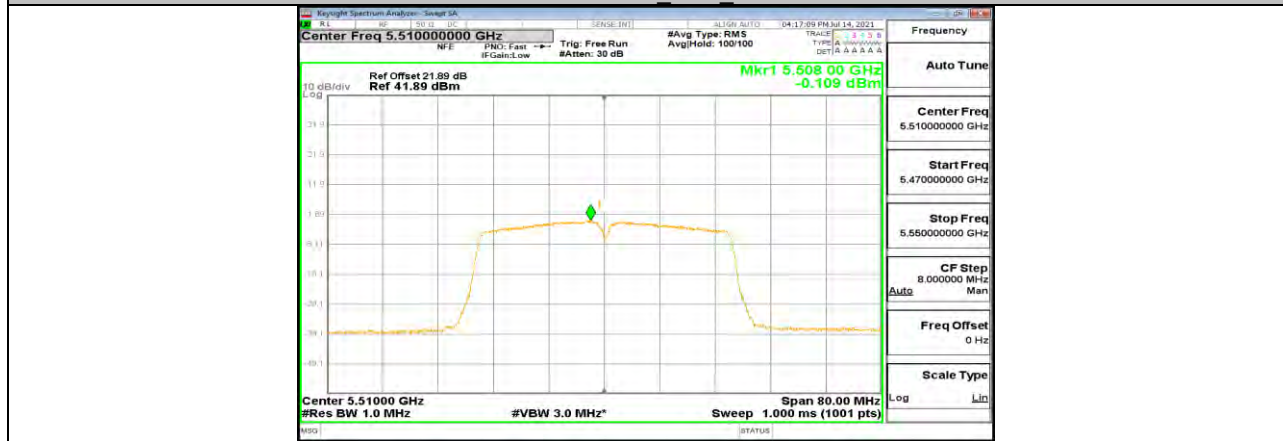
11AC40MIMO_Ant1_5310



11AC40MIMO_Ant2_5310



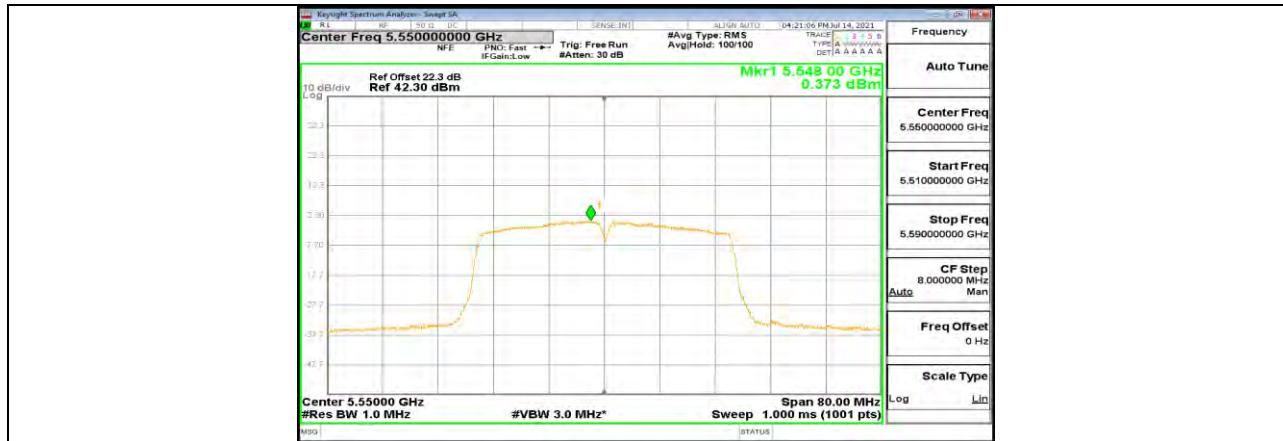
11AC40MIMO Ant1 5510



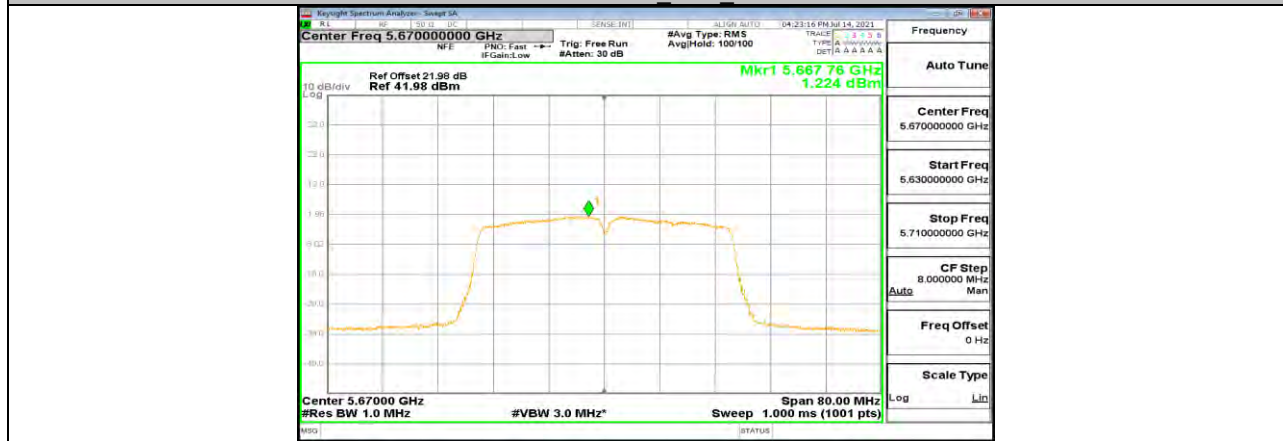
11AC40MIMO Ant2 5510



11AC40MIMO Ant1 5550



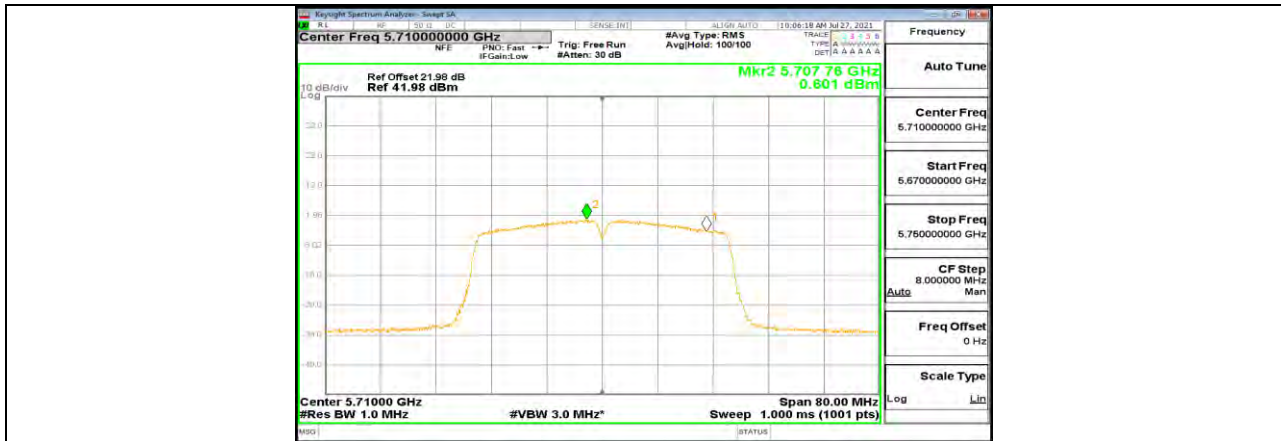
11AC40MIMO Ant2_5550



11AC40MIMO Ant1_5670



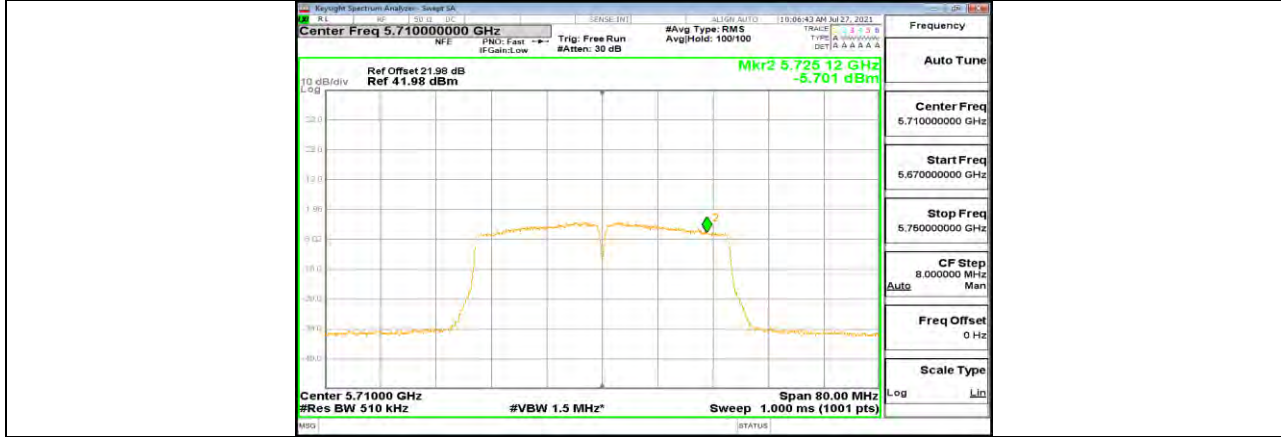
11AC40MIMO Ant2_5670



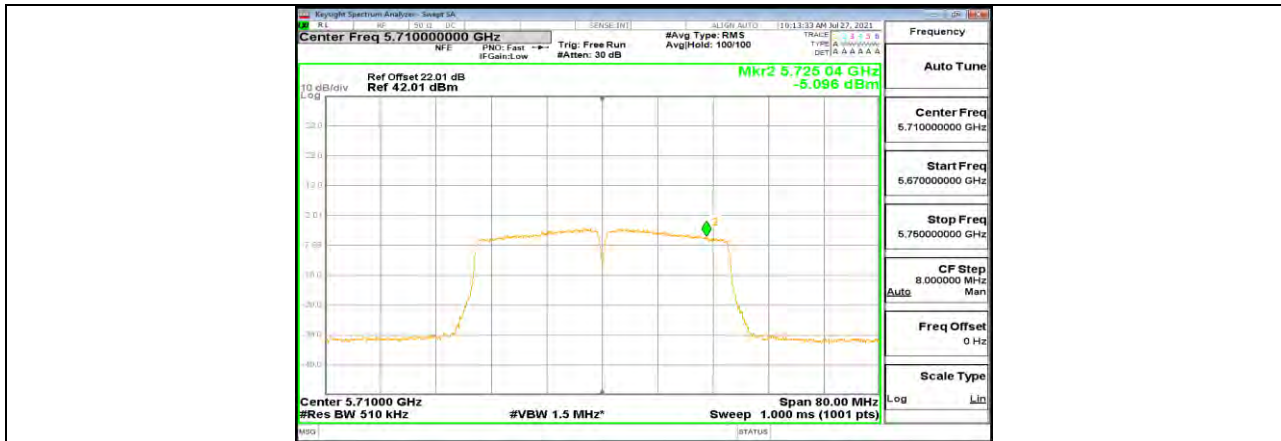
11AC40MIMO Ant1 5710 UNII-2C



11AC40MIMO Ant2 5710 UNII-2C



11AC40MIMO Ant1 5710 UNII-3



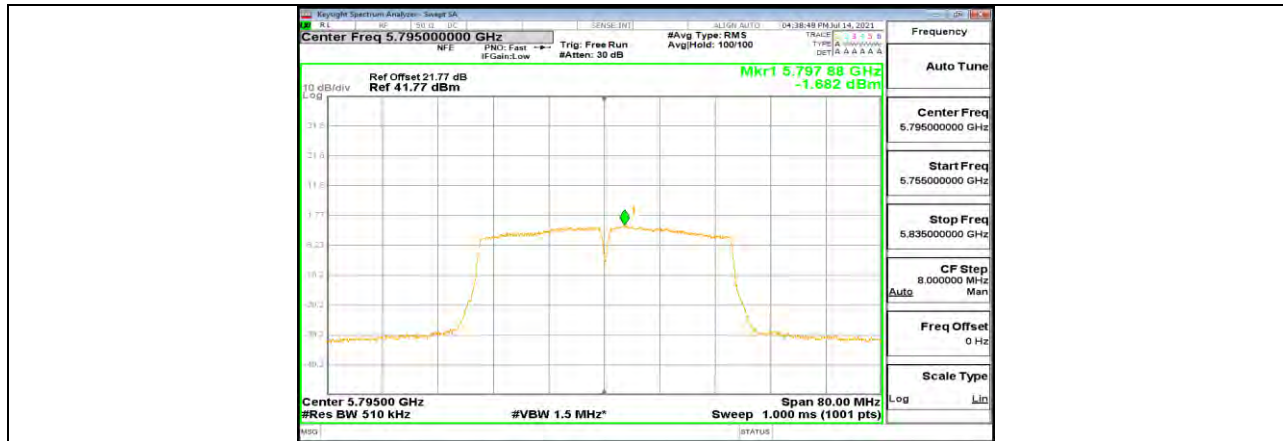
11AC40MIMO Ant2 5710 UNII-3



11AC40MIMO Ant1 5755



11AC40MIMO Ant2 5755



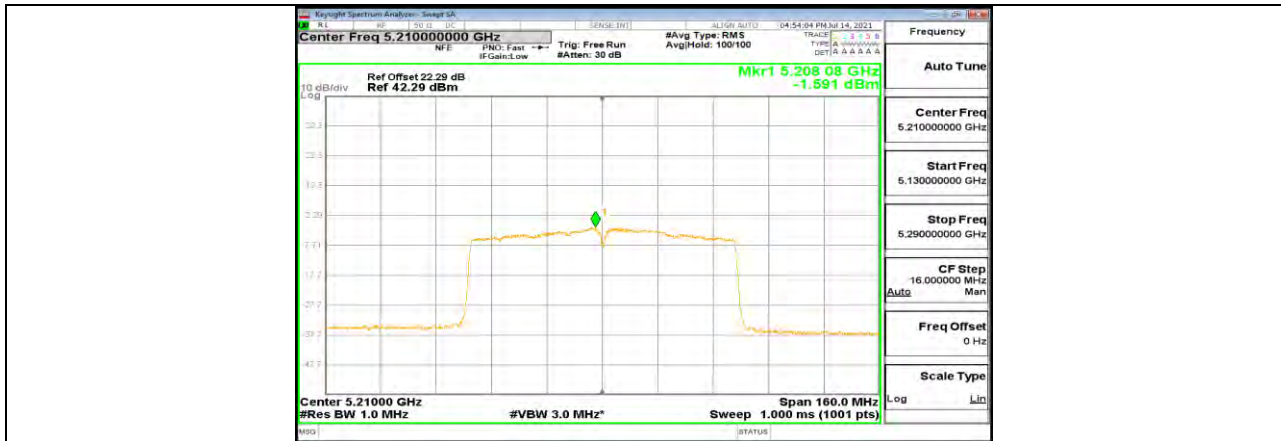
11AC40MIMO Ant1 5795



11AC40MIMO Ant2 5795



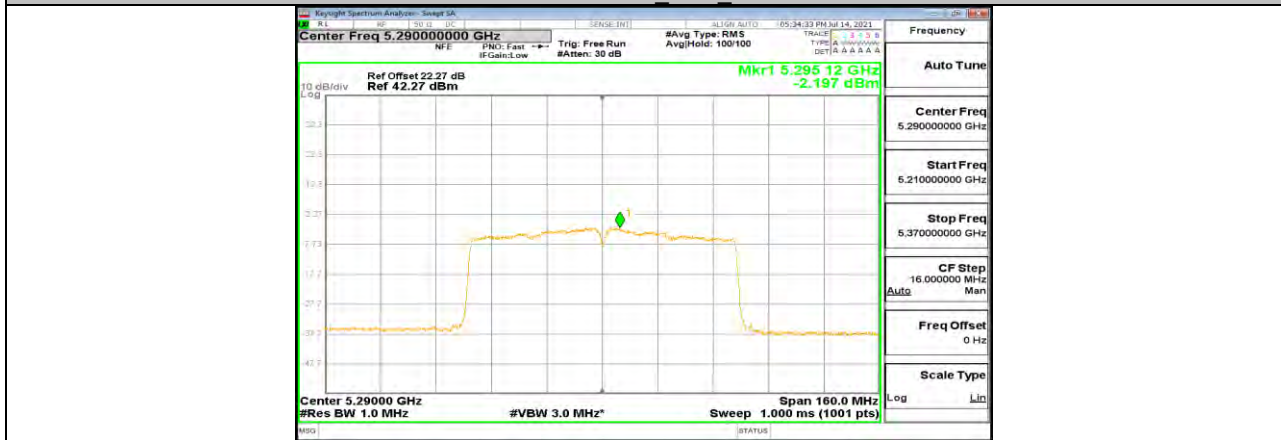
11AC80MIMO Ant1 5210



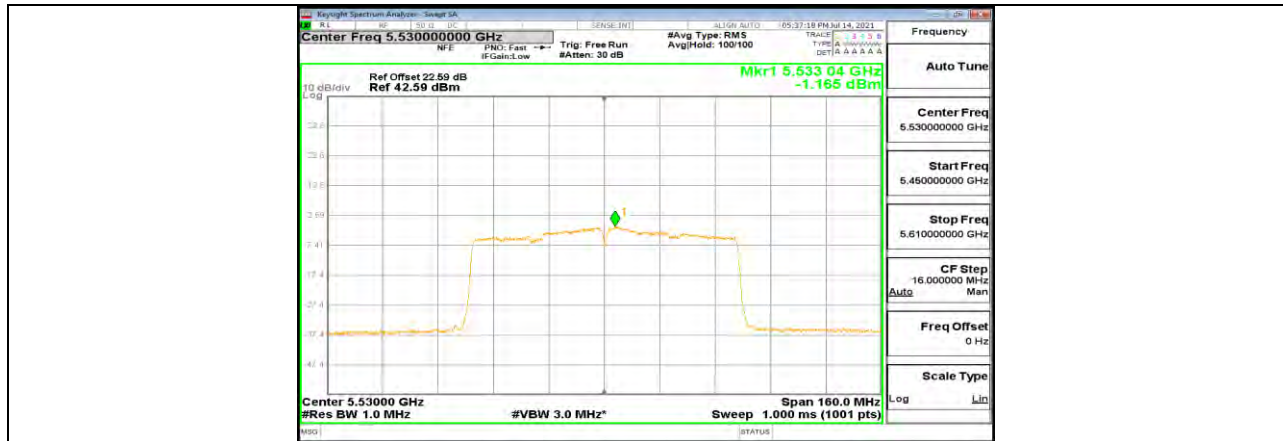
11AC80MIMO_Ant2_5210



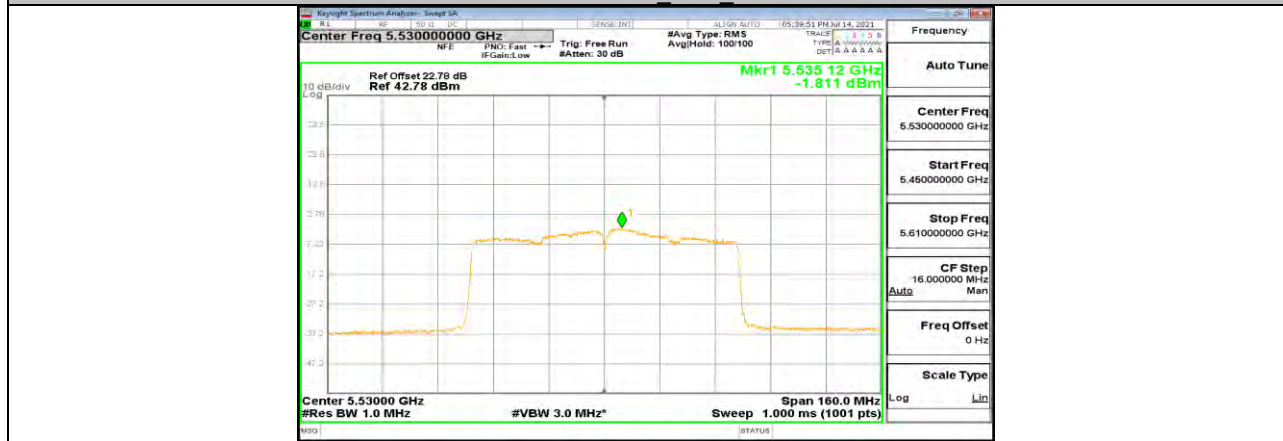
11AC80MIMO_Ant1_5290



11AC80MIMO_Ant2_5290



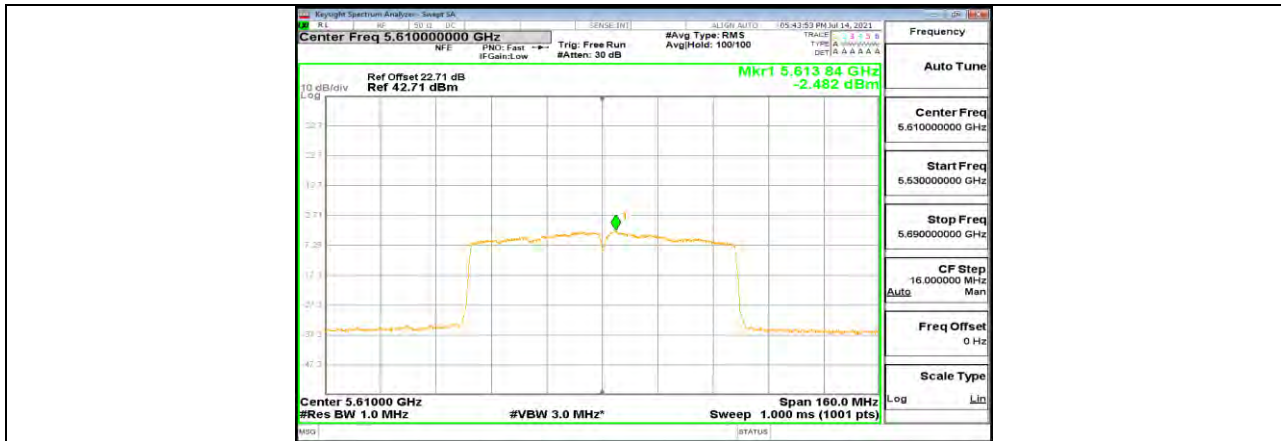
11AC80MIMO Ant1 5530



11AC80MIMO Ant2 5530



11AC80MIMO Ant1 5610



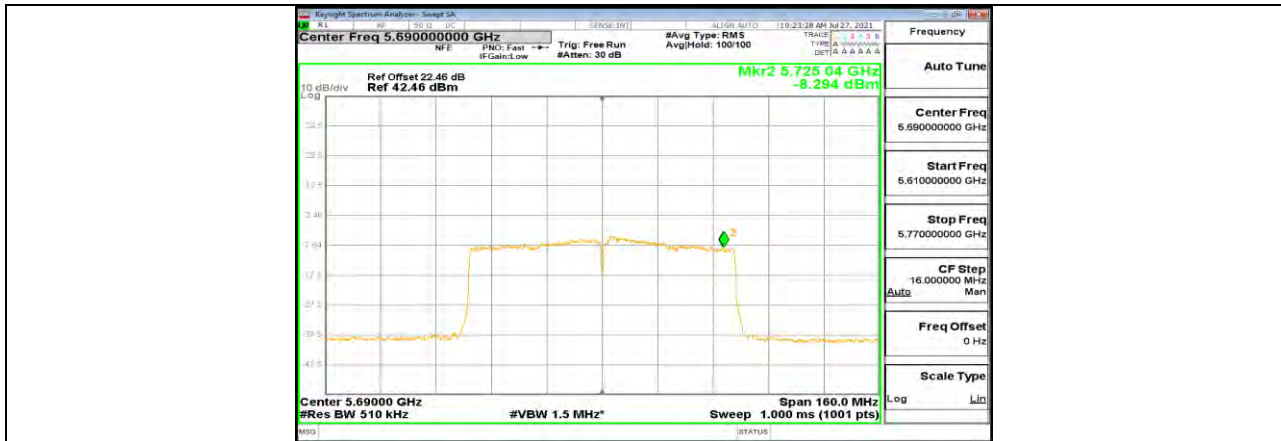
11AC80MIMO Ant2_5610



11AC80MIMO Ant1_5690 UNII-2C



11AC80MIMO Ant2_5690 UNII-2C



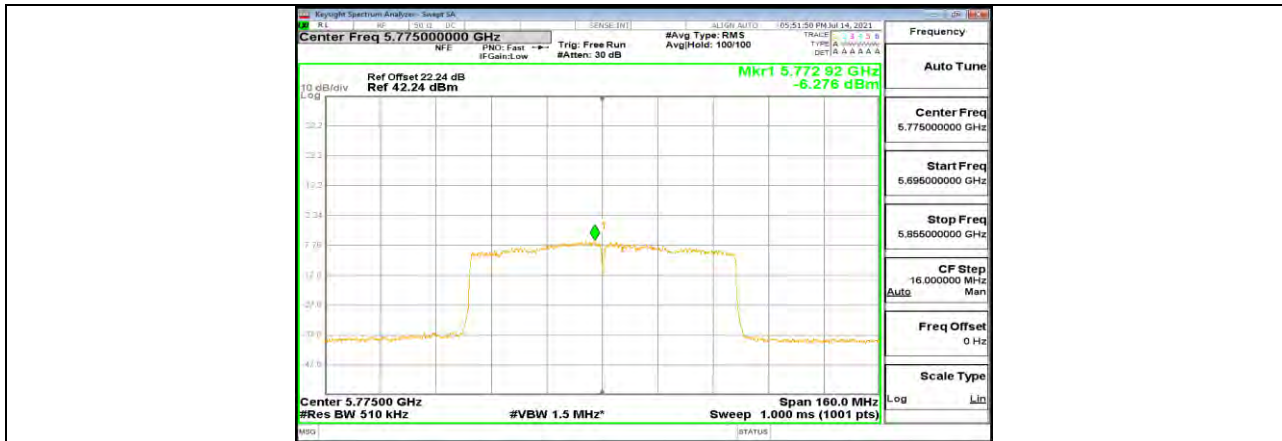
11AC80MIMO Ant1 5690 UNII-3



11AC80MIMO Ant2 5690 UNII-3



11AC80MIMO Ant1 5775



11AC80MIMO_Ant2_5775



12.6. Appendix D: Duty Cycle

12.6.1. Test Result

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.40	1.44	0.9722	97.22	0.12	0.71	1
11N20MIMO	1.30	1.34	0.9701	97.01	0.13	0.77	1
11N40MIMO	0.64	0.69	0.9275	92.75	0.33	1.56	2
11AC20MIMO	0.68	0.72	0.9444	94.44	0.25	1.47	2
11AC40MIMO	0.35	0.40	0.8750	87.50	0.58	2.86	3
11AC80MIMO	0.19	0.23	0.8261	82.61	0.83	5.26	6

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

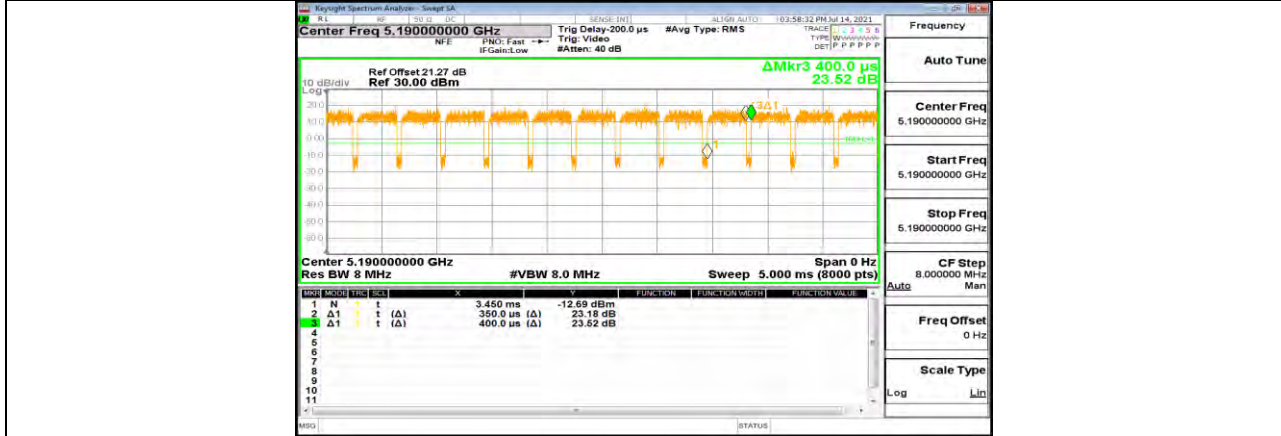
If that calculated VBW is not available on the analyzer then the next higher value should be used.

12.6.2. Test Graphs





11AC20MIMO Ant1 5180



11AC40MIMO Ant1 5190



11AC80MIMO Ant1 5210



**12.7. Appendix E: Frequency Stability
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	5199.9850	-2.88	5199.9929	-1.37	5200.0065	1.24	5200.0217	4.16
TN	VN	5200.0088	1.70	5199.9925	-1.43	5200.0244	4.69	5200.0046	0.88
TN	VH	5199.9778	-4.26	5199.9849	-2.91	5200.0088	1.69	5200.0029	0.56
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	5199.9856	-2.78	5199.9768	-4.46	5199.9784	-4.15	5199.9936	-1.23
30	VN	5199.9812	-3.61	5200.0026	0.50	5199.9964	-0.69	5200.0238	4.58
20	VN	5199.9852	-2.85	5199.9941	-1.14	5199.9881	-2.29	5200.0180	3.46
10	VN	5199.9830	-3.26	5200.0186	3.58	5200.0060	1.15	5200.0194	3.72
0	VN	5200.0078	1.50	5200.0152	2.93	5200.0060	1.16	5199.9861	-2.67



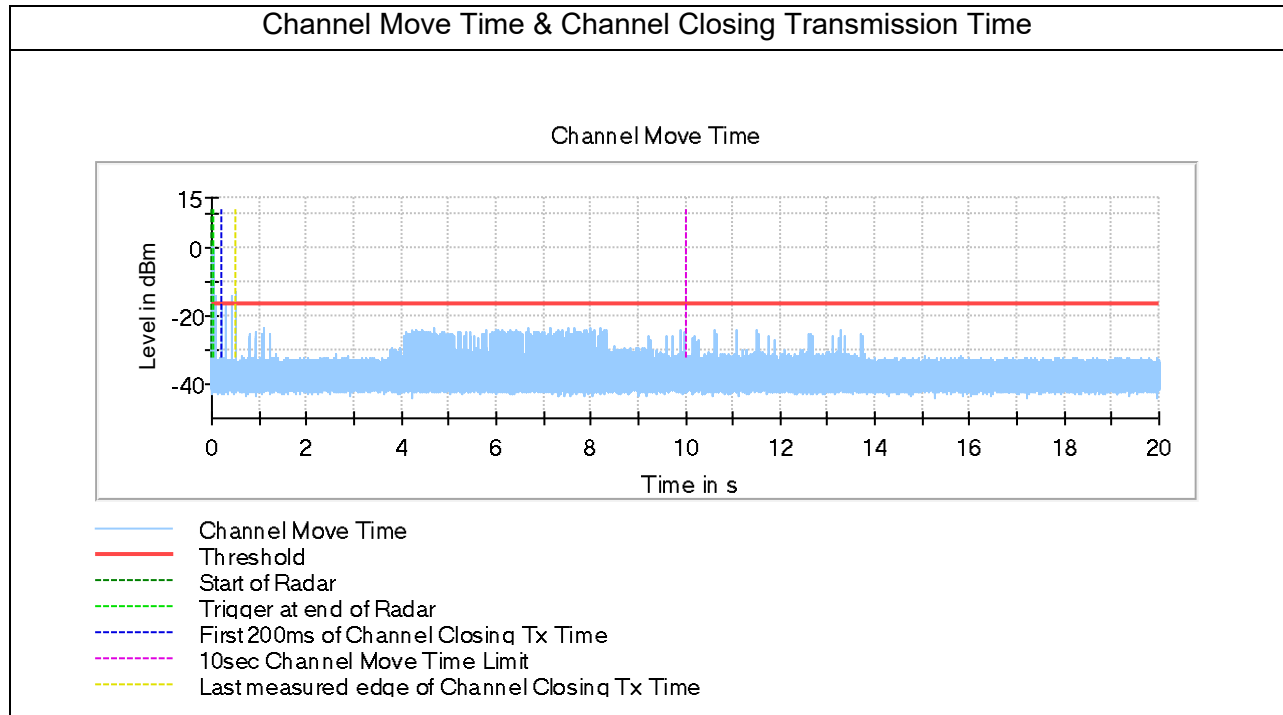
Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.0092	1.57	5825.0134	2.30	5825.0201	3.45	5825.0003	0.05
TN	VN	5824.9985	-0.25	5825.0076	1.31	5825.0062	1.06	5824.9963	-0.64
TN	VH	5825.0246	4.22	5825.0059	1.02	5824.9908	-1.57	5824.9771	-3.93
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	5824.9974	-0.45	5825.0200	3.44	5825.0012	0.20	5825.0140	2.41
30	VN	5824.9879	-2.08	5825.0147	2.52	5824.9941	-1.02	5824.9903	-1.66
20	VN	5824.9913	-1.49	5824.9896	-1.78	5824.9778	-3.82	5825.0027	0.47
10	VN	5825.0008	0.13	5825.0143	2.46	5825.0025	0.43	5824.9779	-3.79
0	VN	5825.0068	1.16	5825.0001	0.01	5824.9823	-3.04	5825.0033	0.57

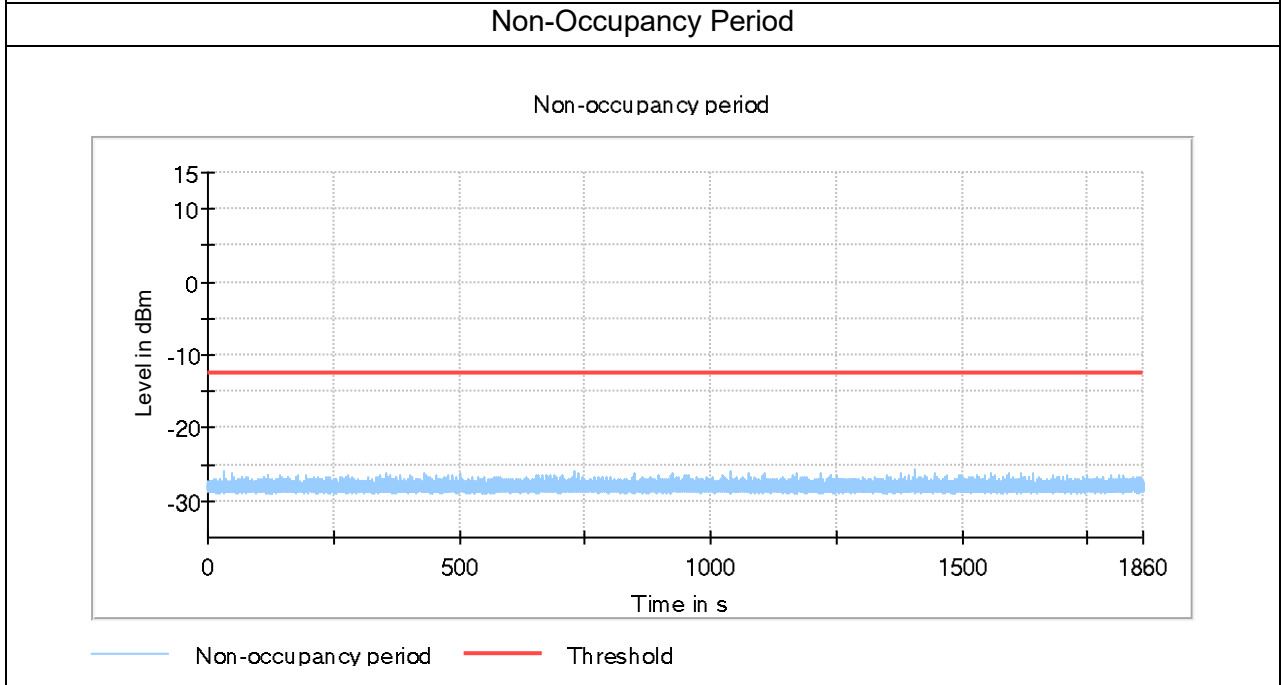
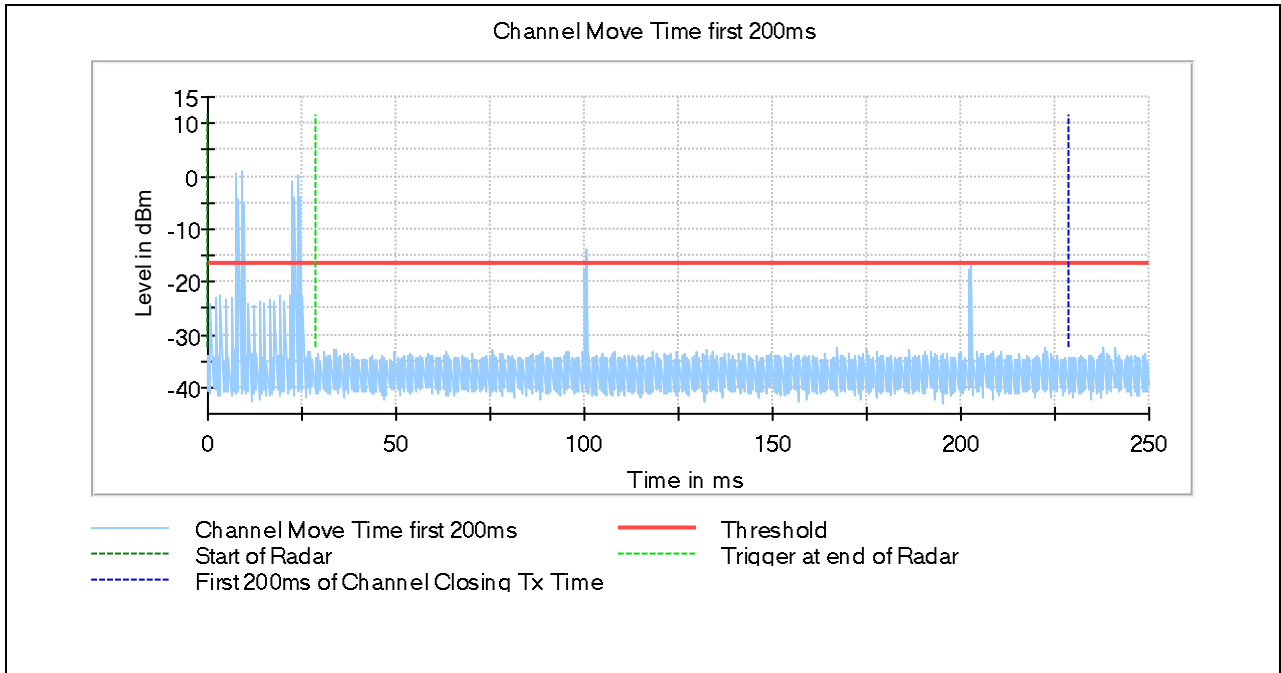
Note: All antennas and test modes have been tested, only the worst data record in the report.

12.8. Appendix F DYNAMIC FREQUENCY SELECTION

802.11n HT40 Mode

BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5530MHz	Channel Move Time	0.482S	< 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





END OF REPORT