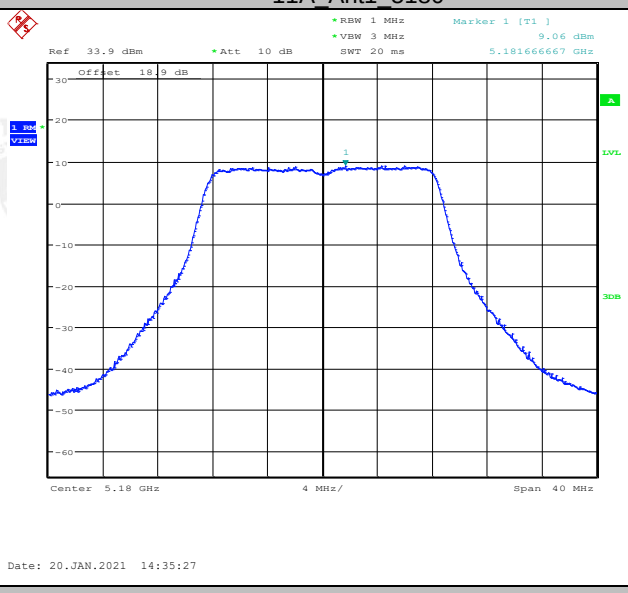
6.5. Original test data

11A_Ant1_5180



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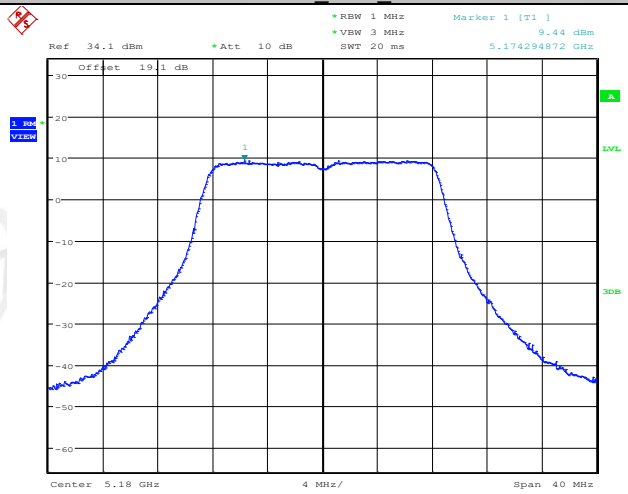
11A_Ant2_5180



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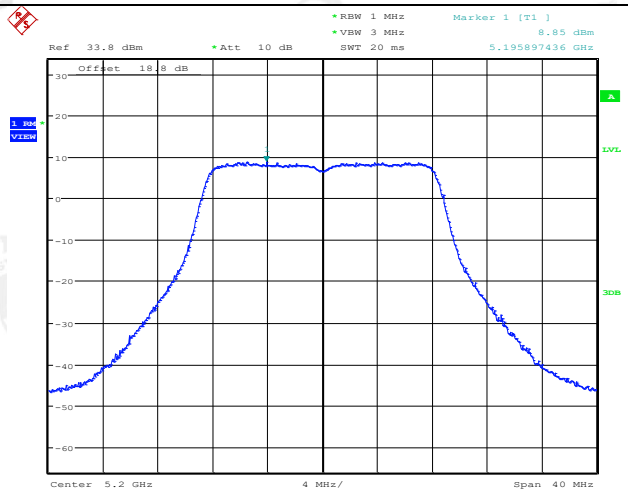

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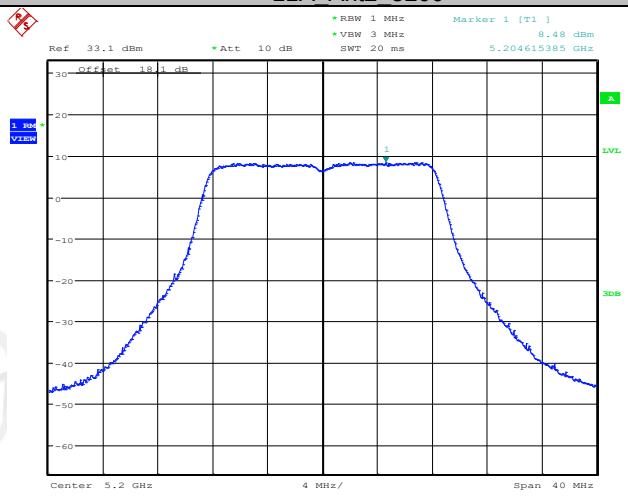
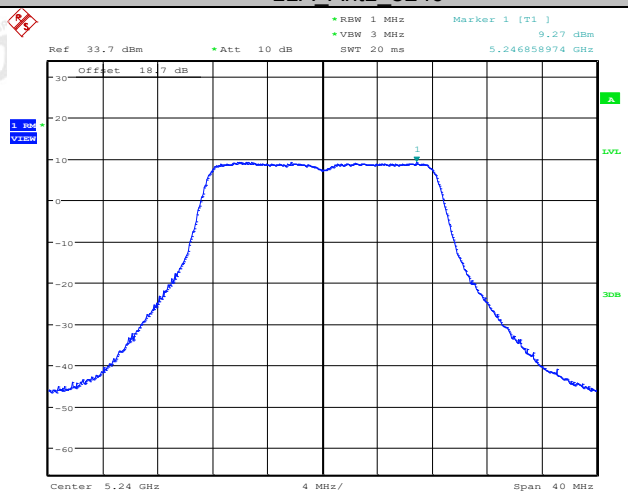


11A_Ant1_5240



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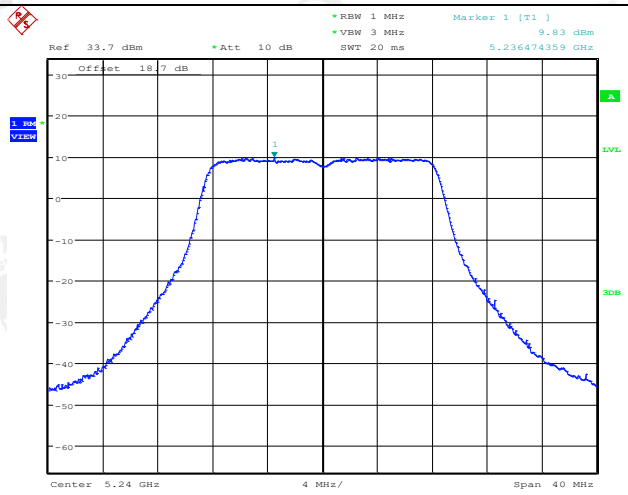

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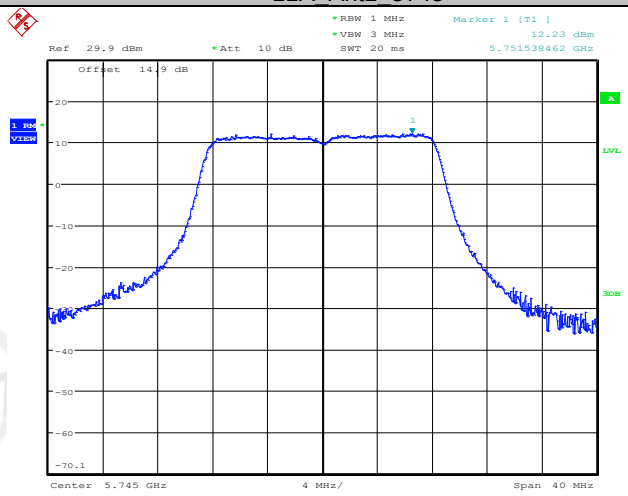

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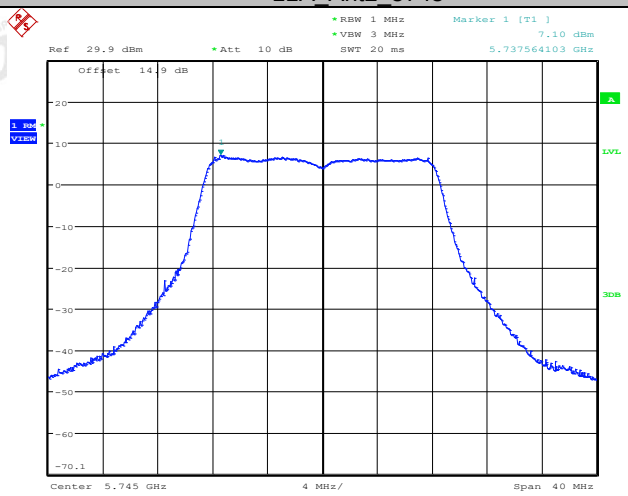

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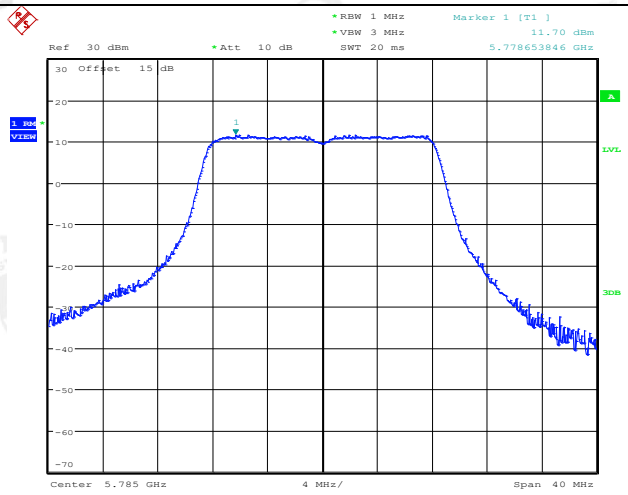

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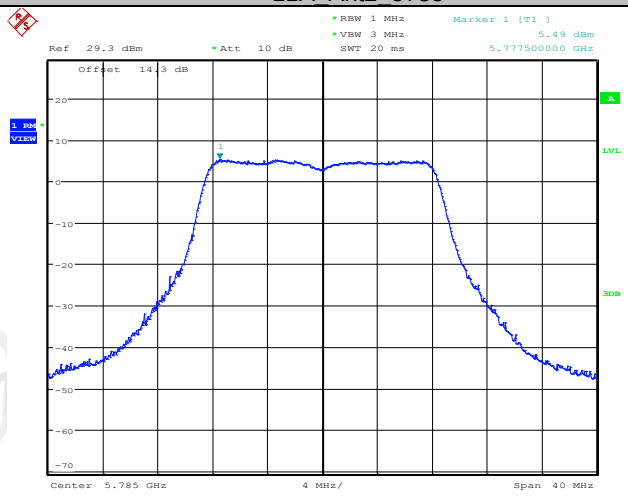

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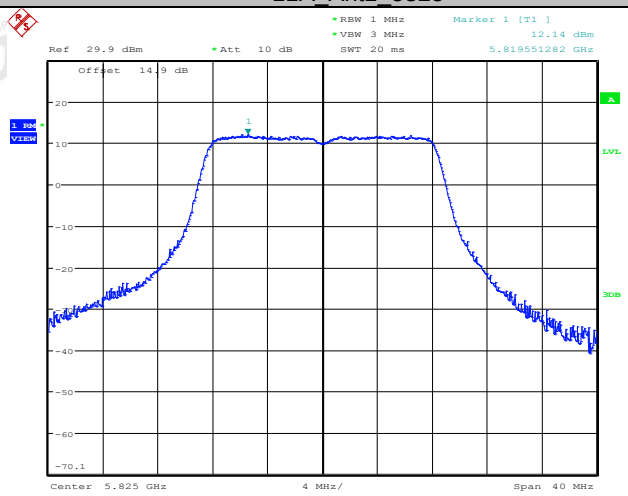

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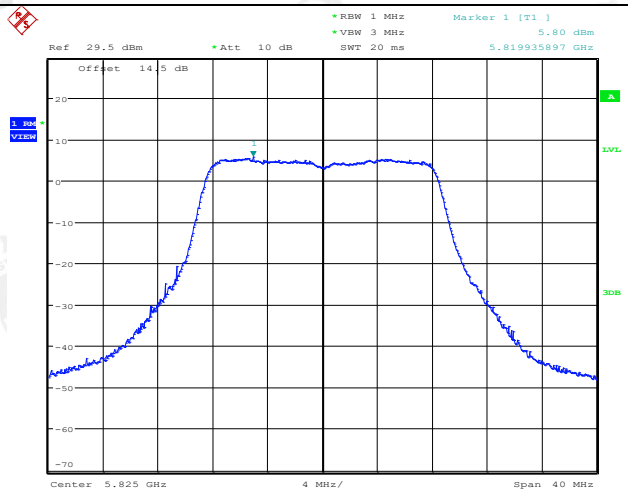

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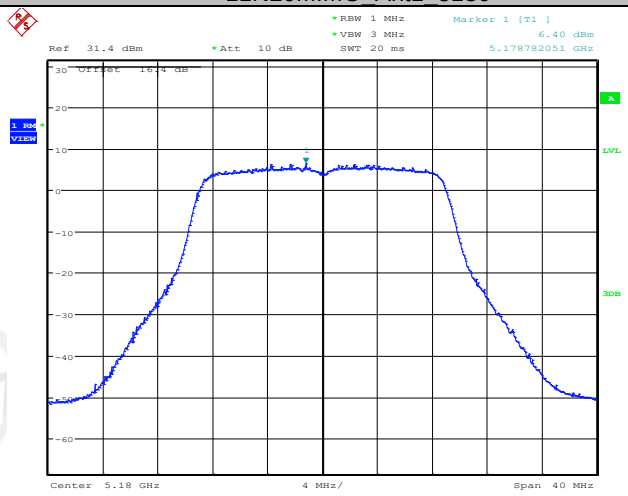

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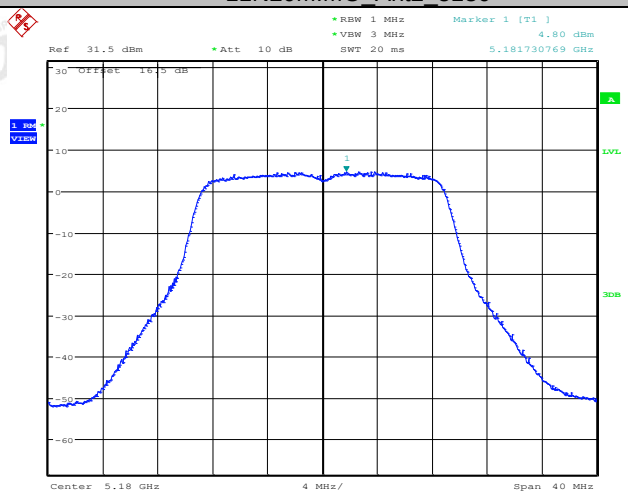

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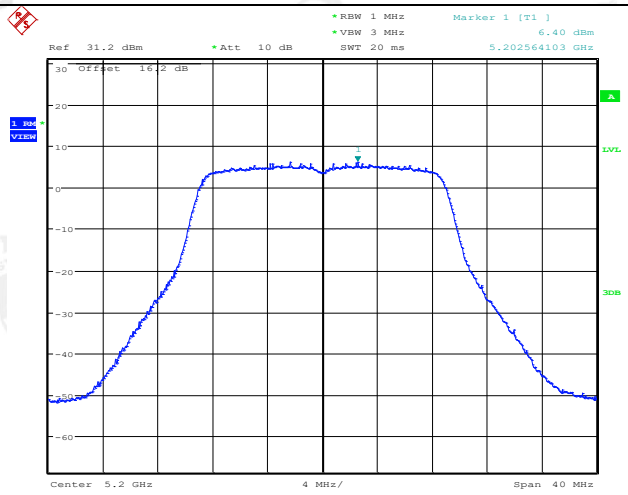

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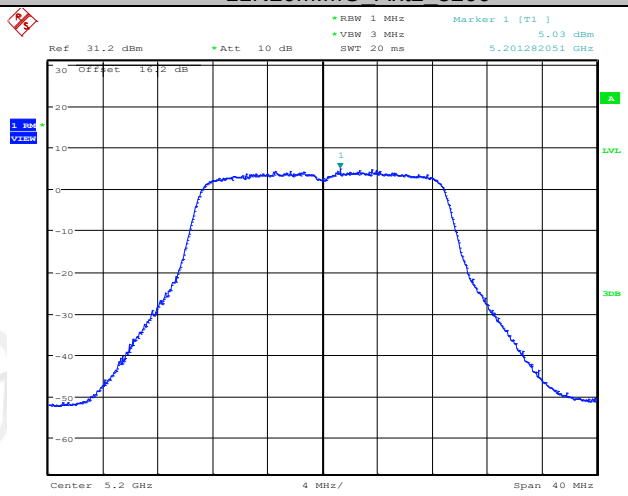

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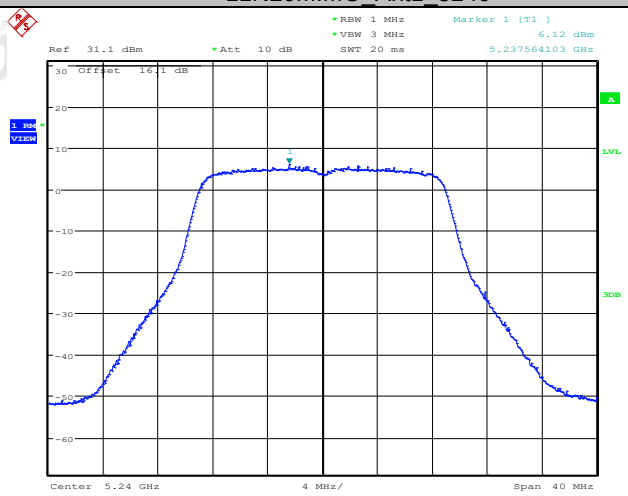

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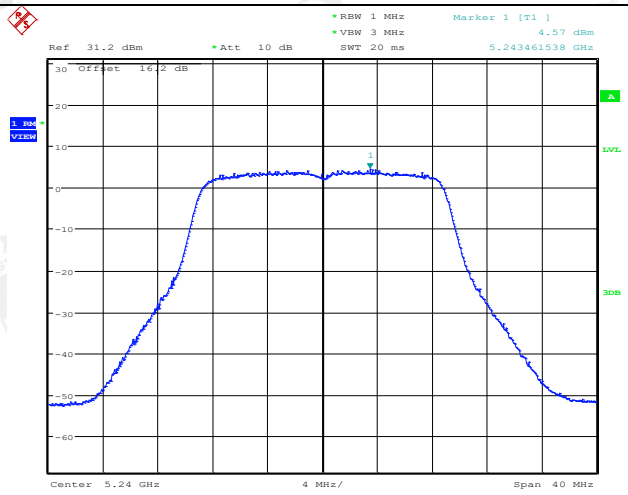

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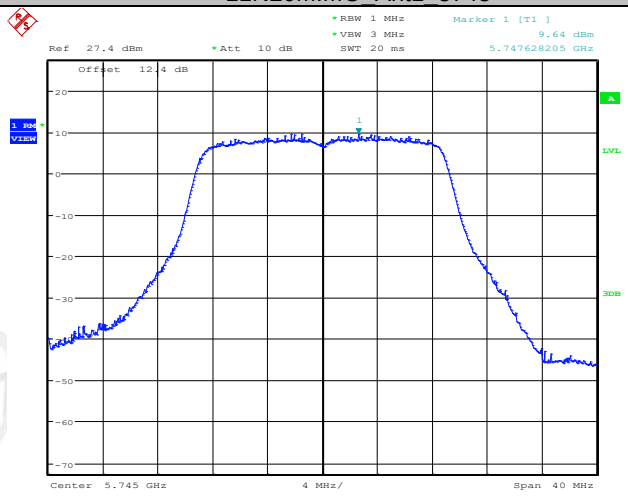

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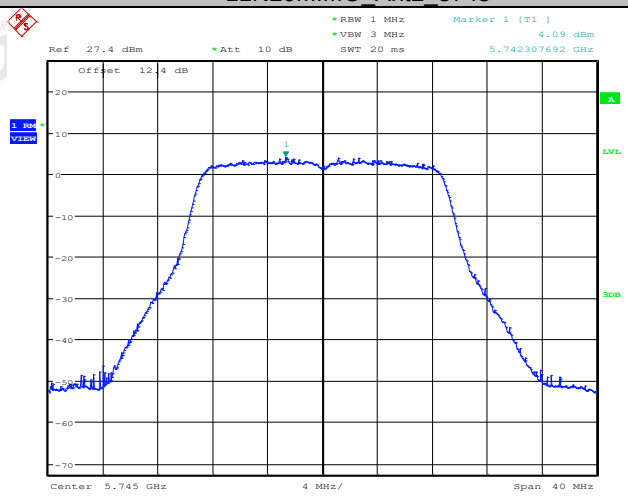

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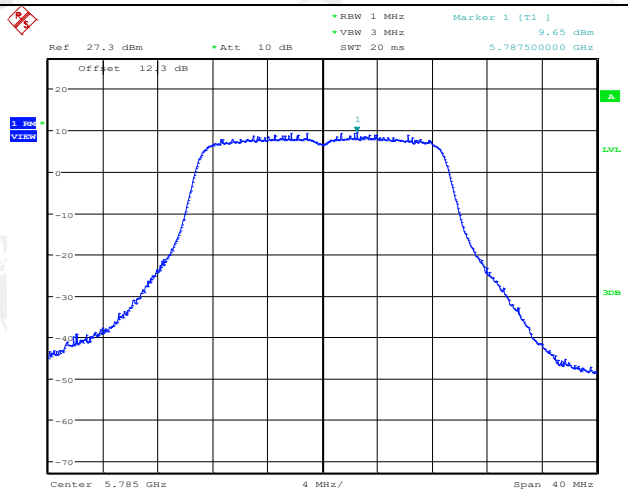

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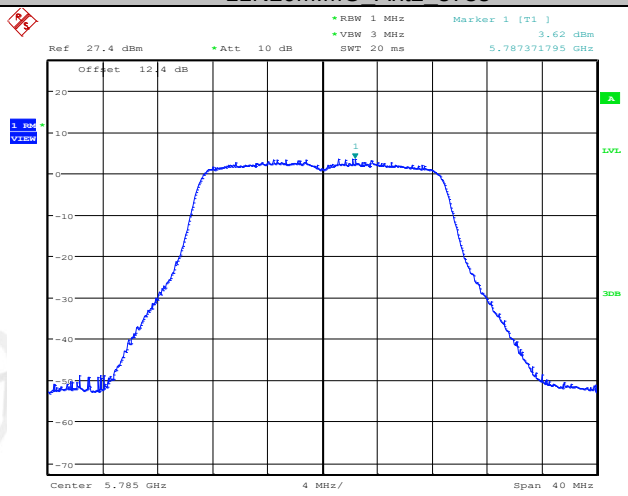

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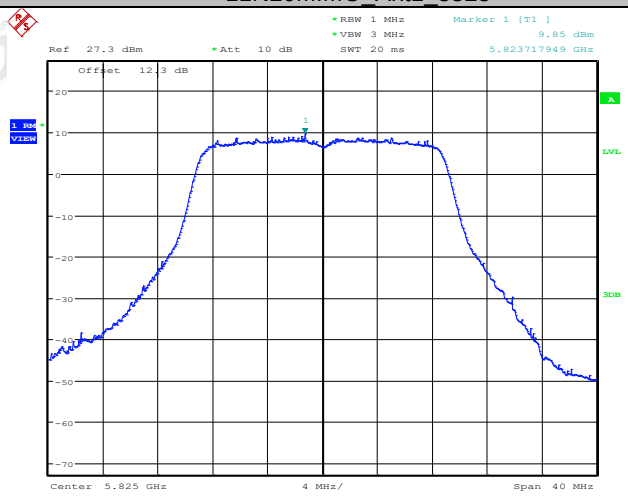

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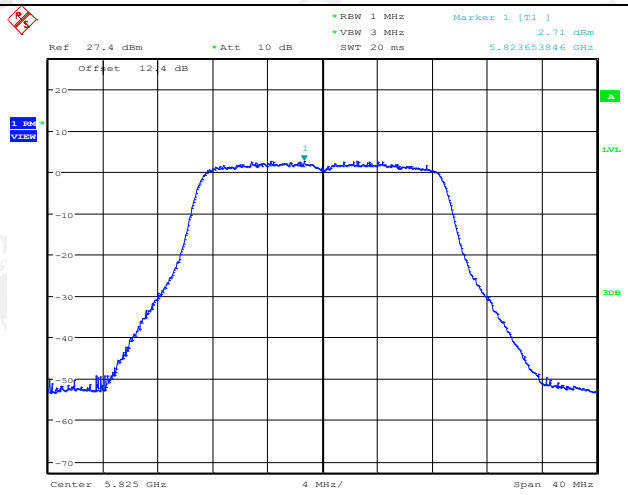

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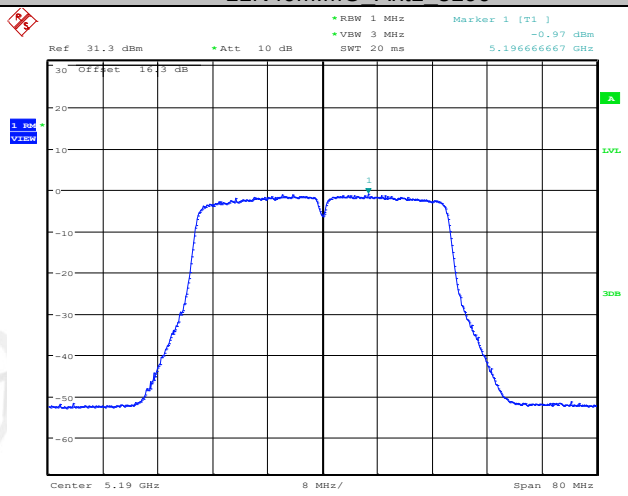

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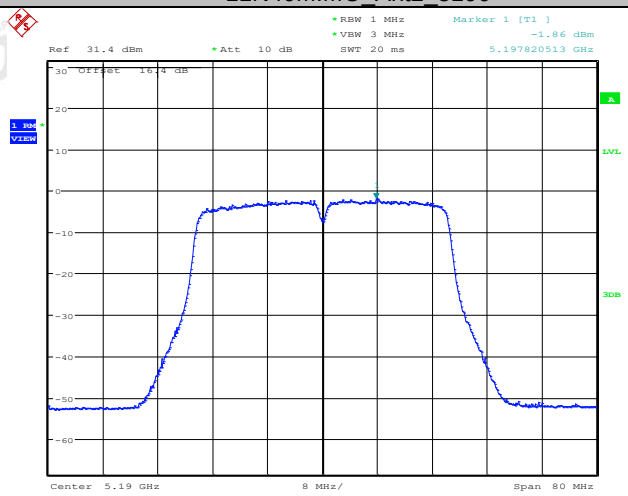

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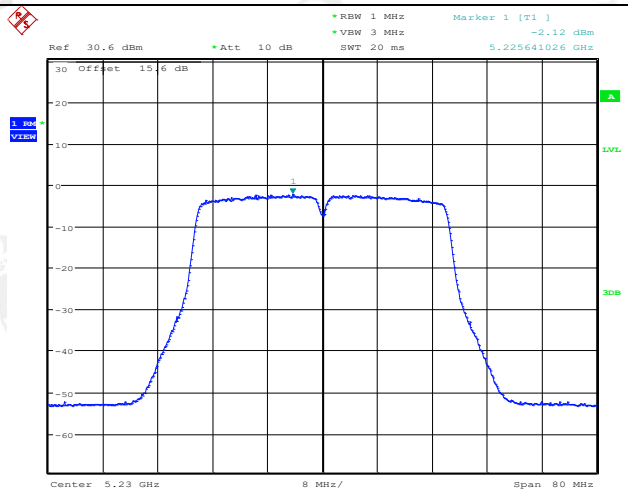

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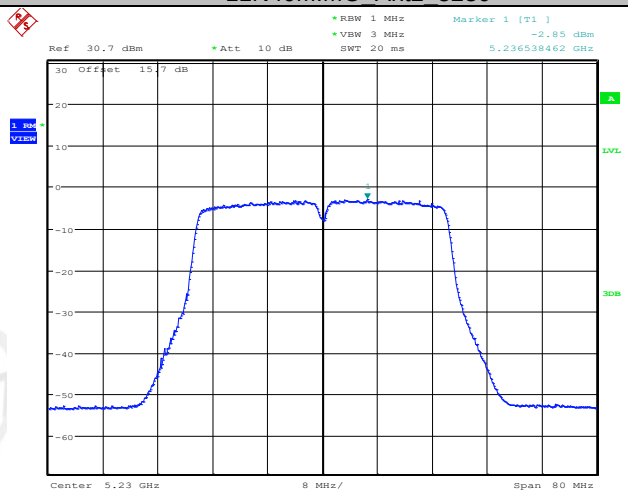

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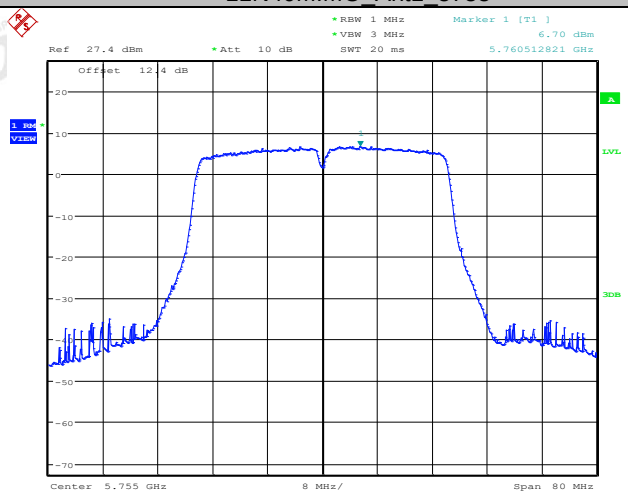

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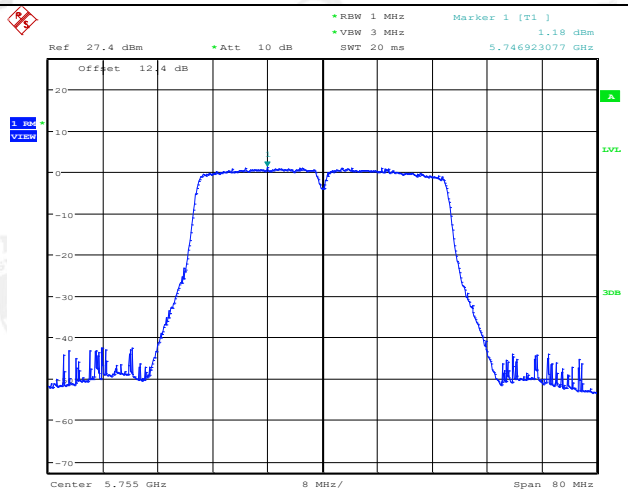

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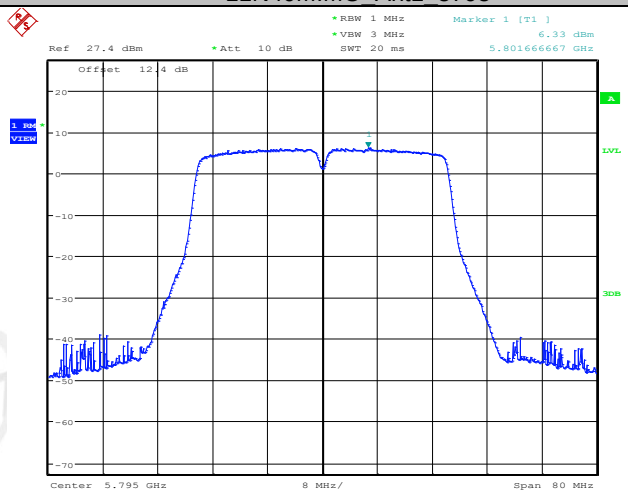

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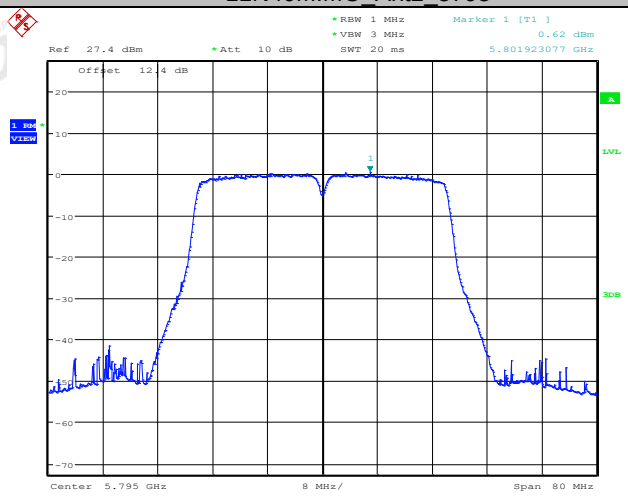

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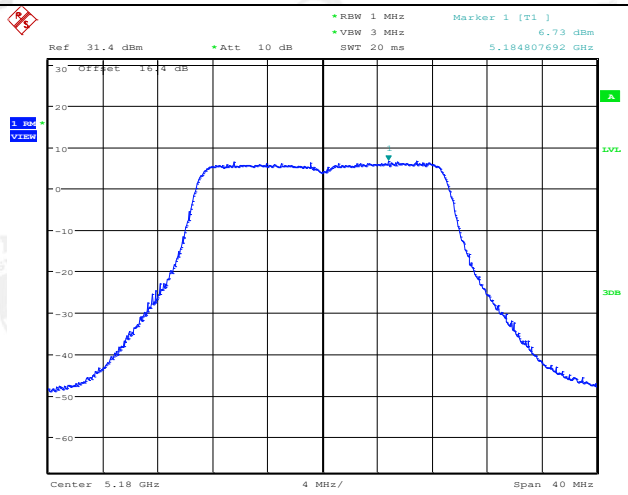

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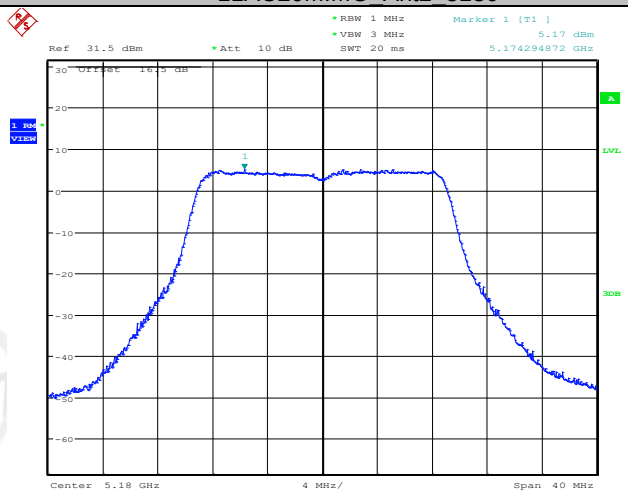

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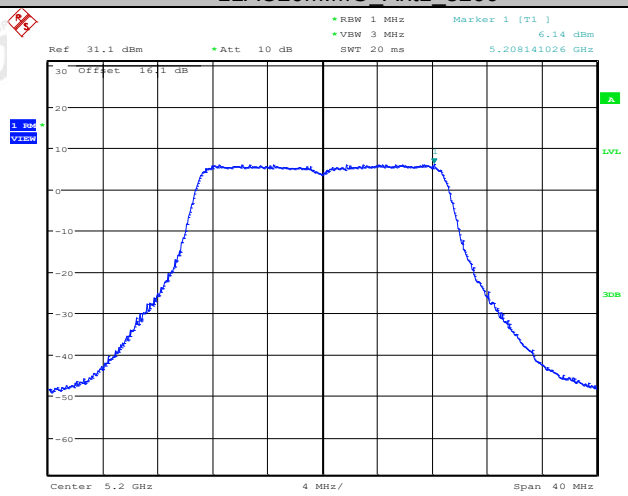

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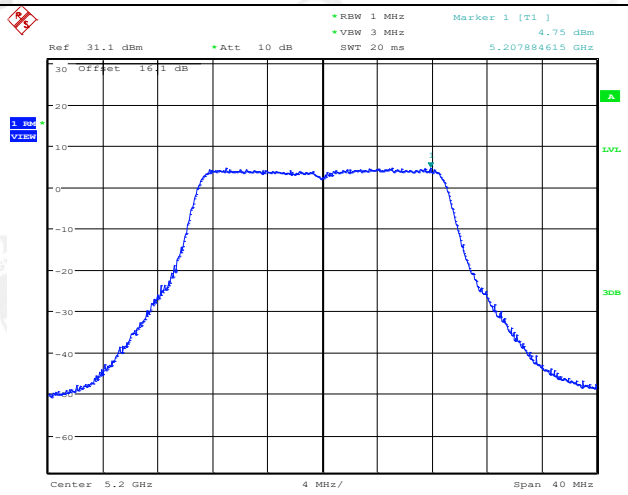

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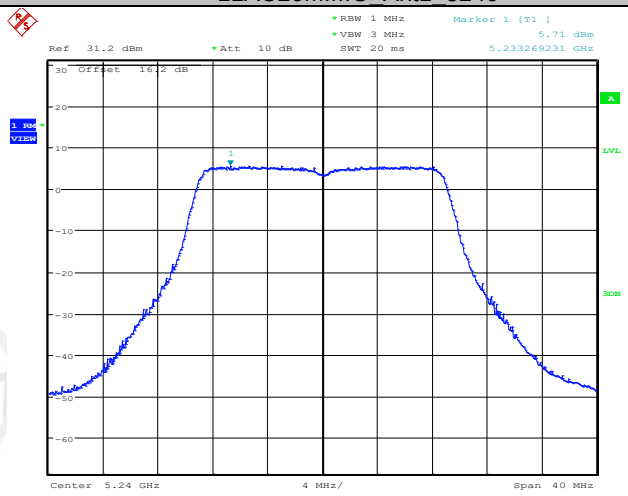

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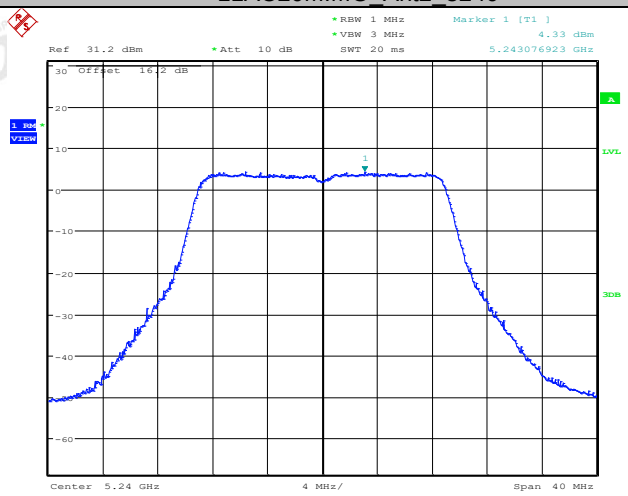

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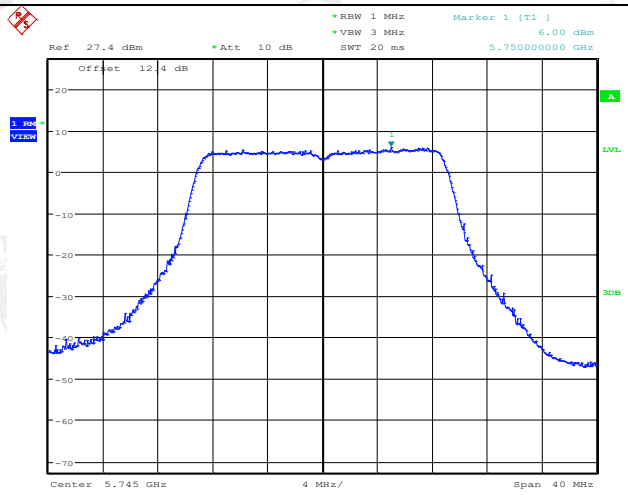

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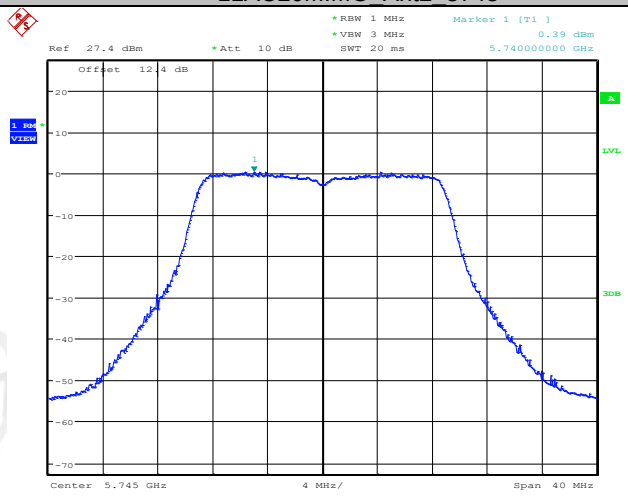

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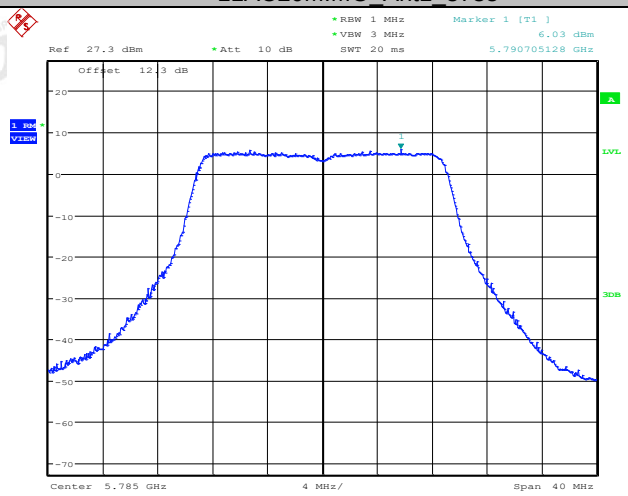

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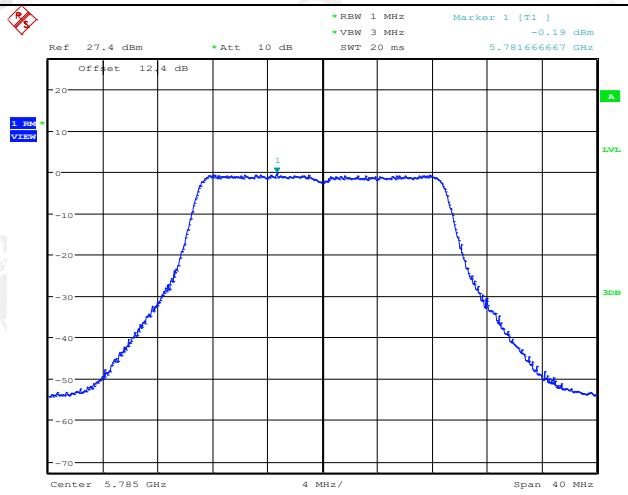

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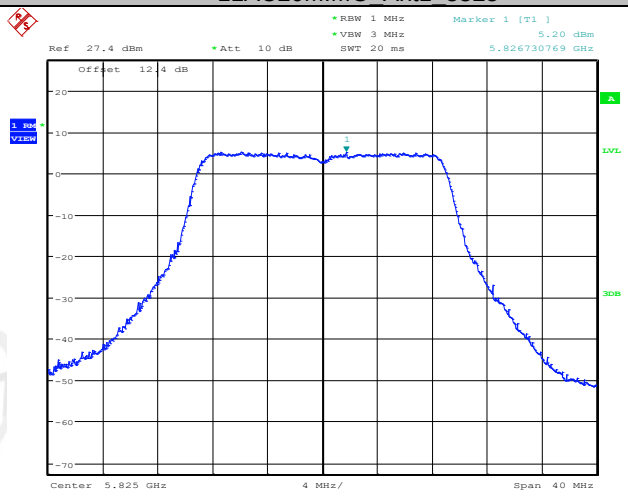

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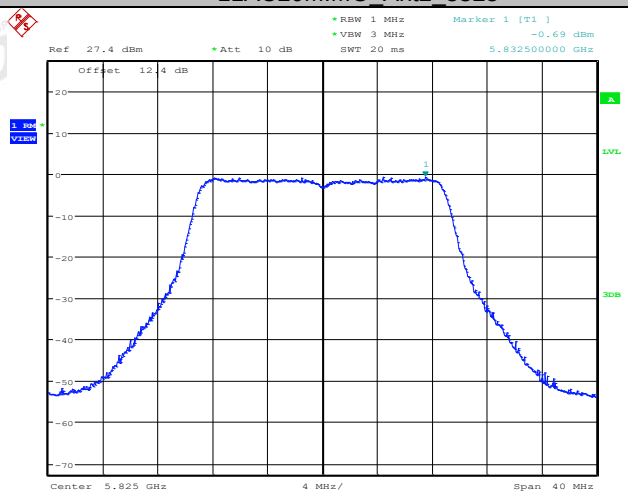

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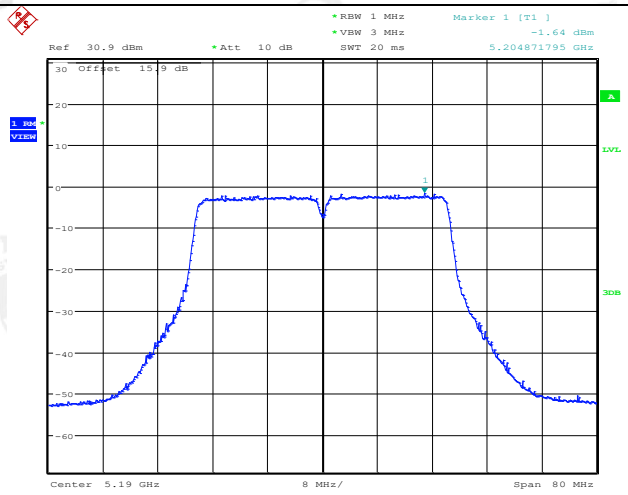

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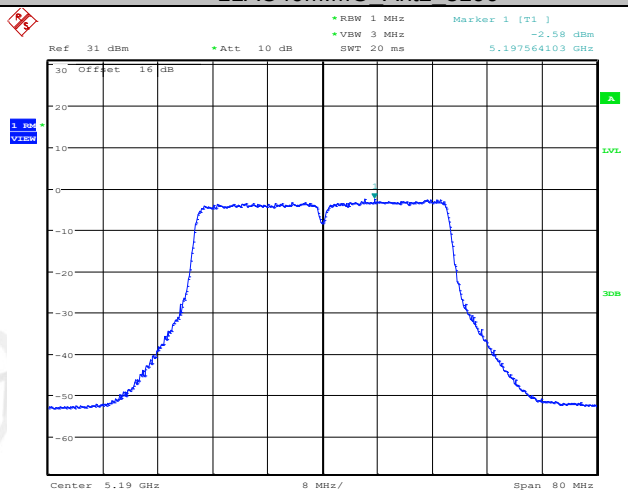

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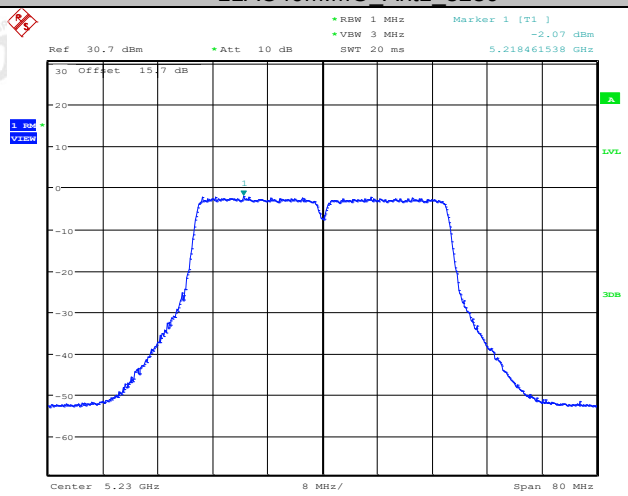

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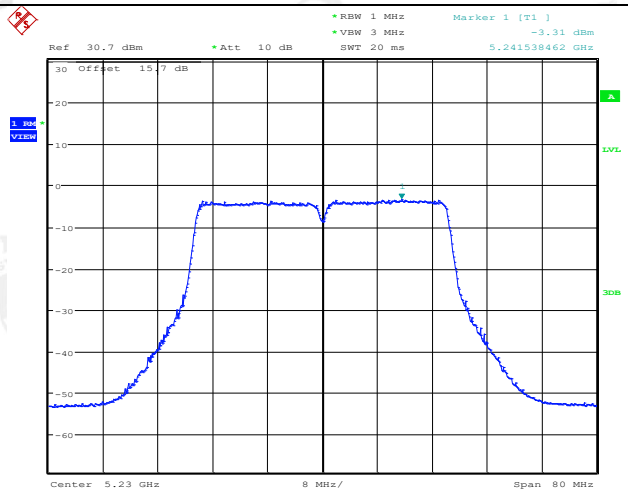

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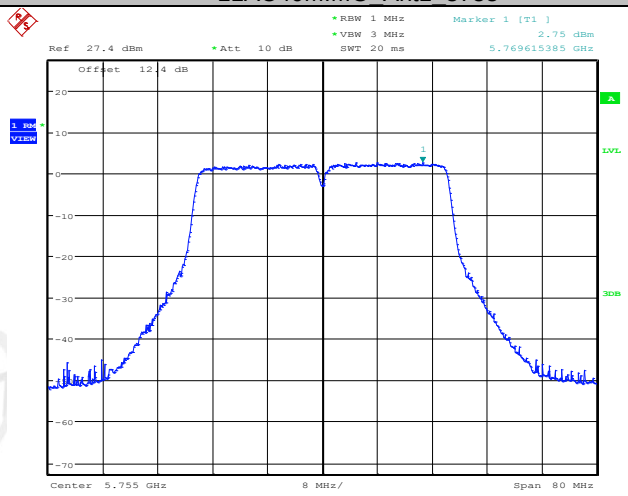

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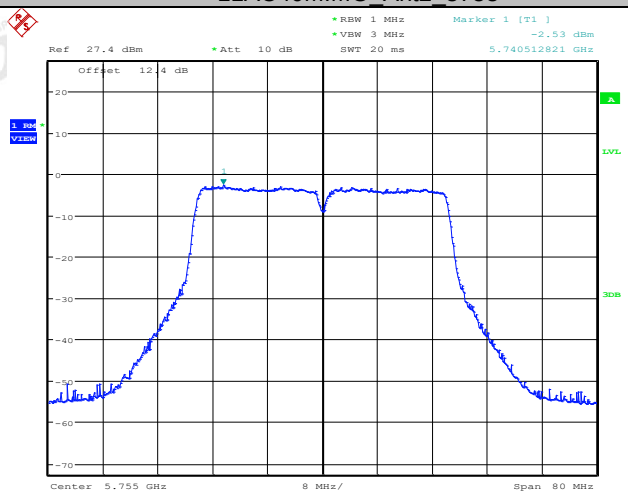

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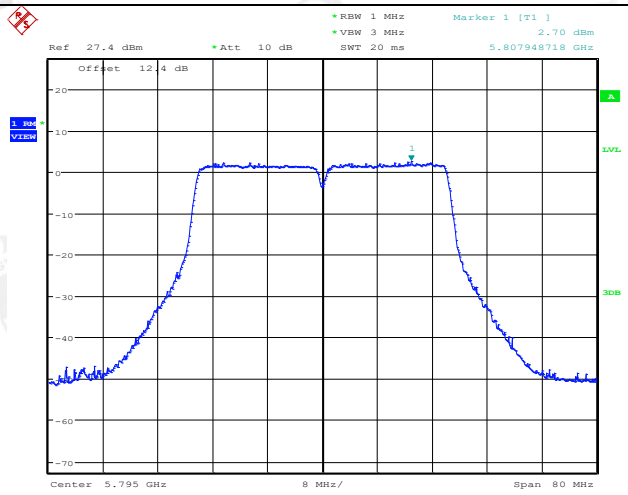

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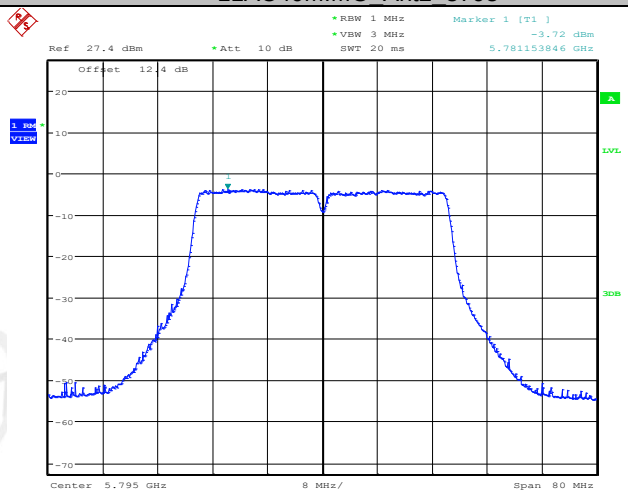

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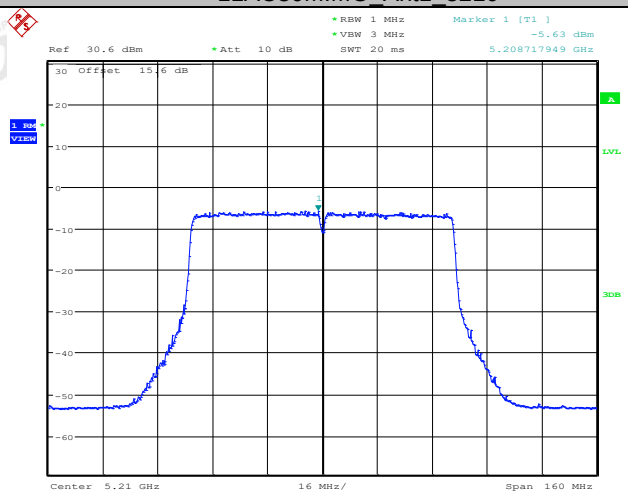

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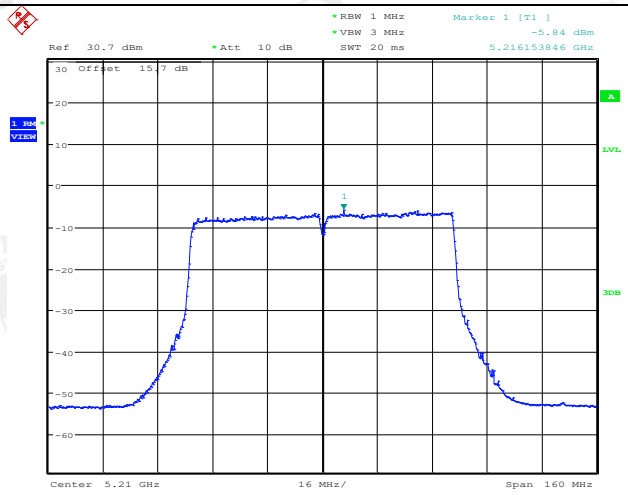

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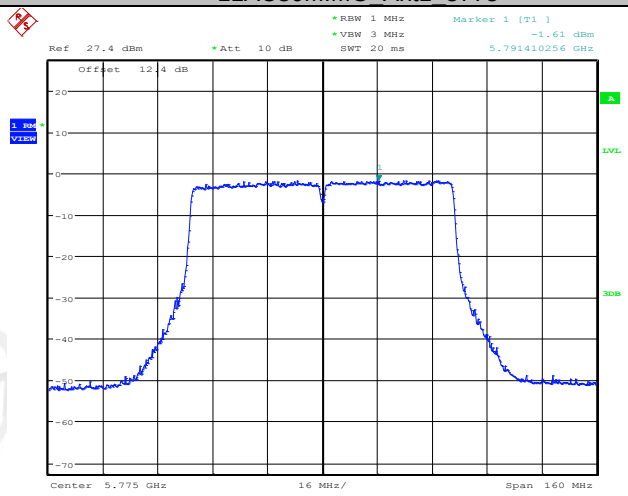

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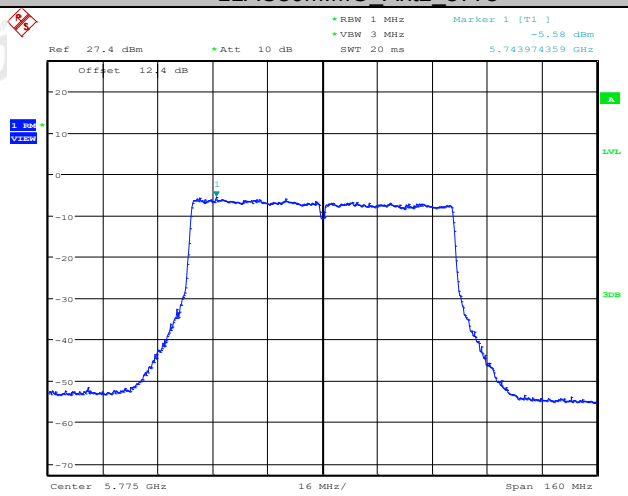

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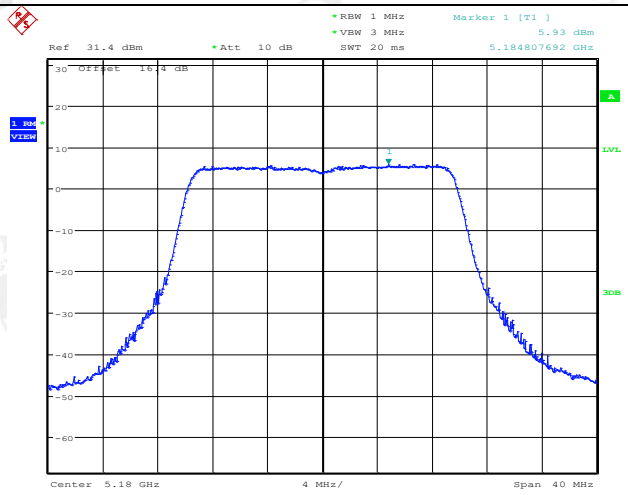

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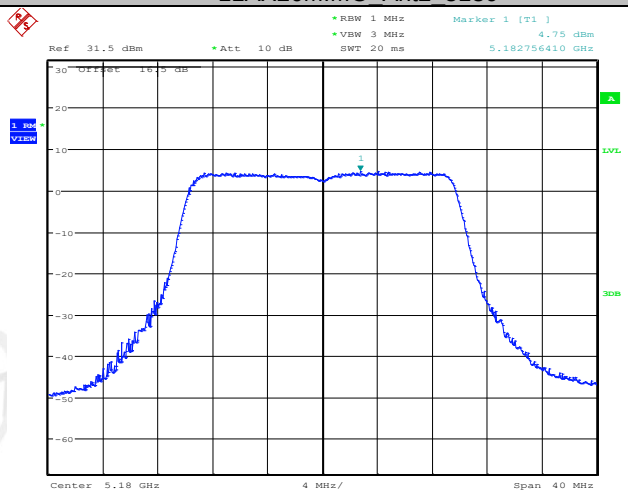

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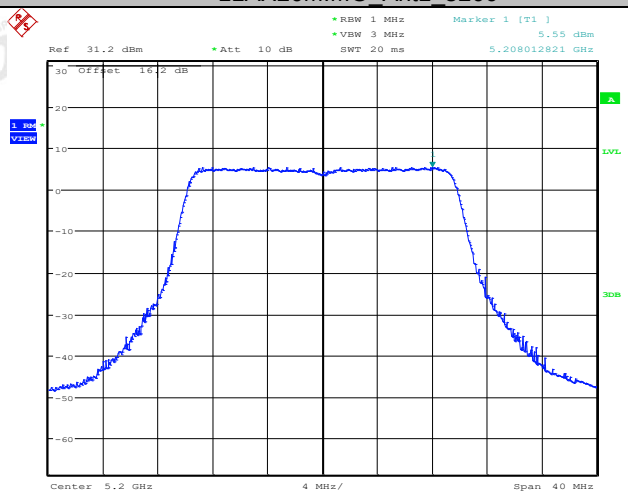

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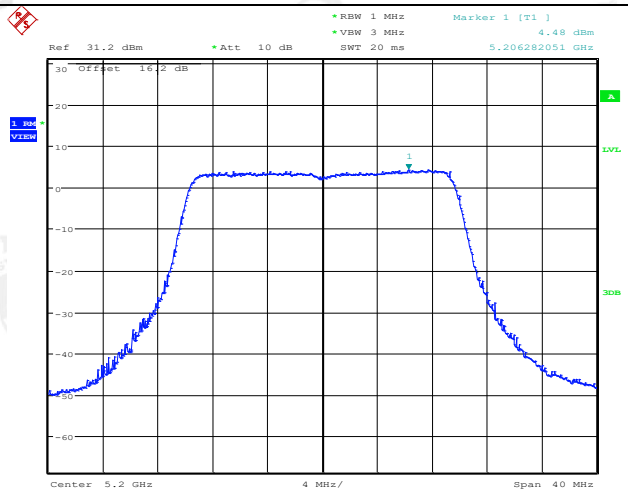

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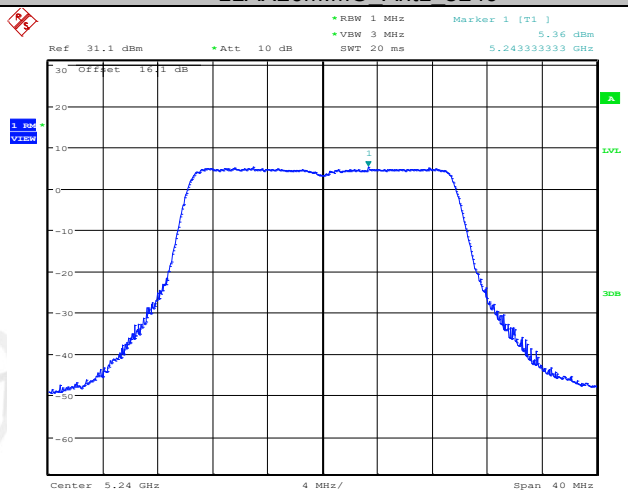

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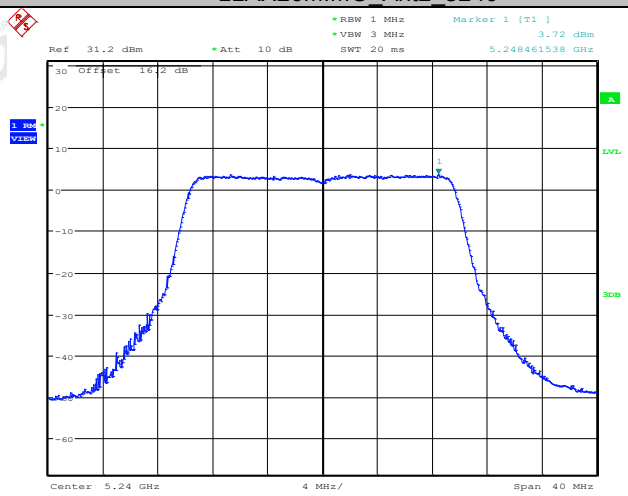

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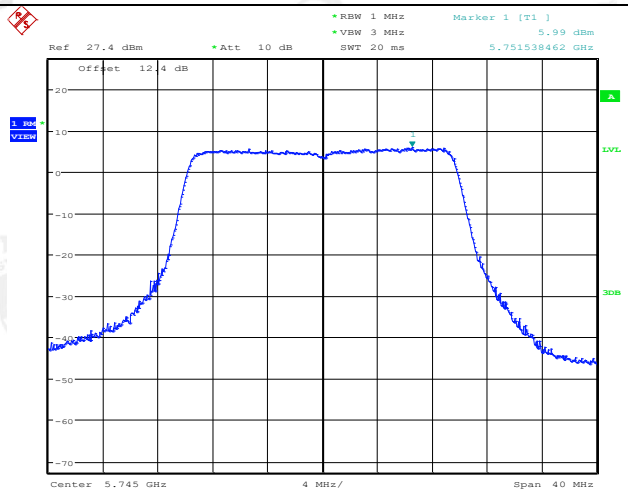

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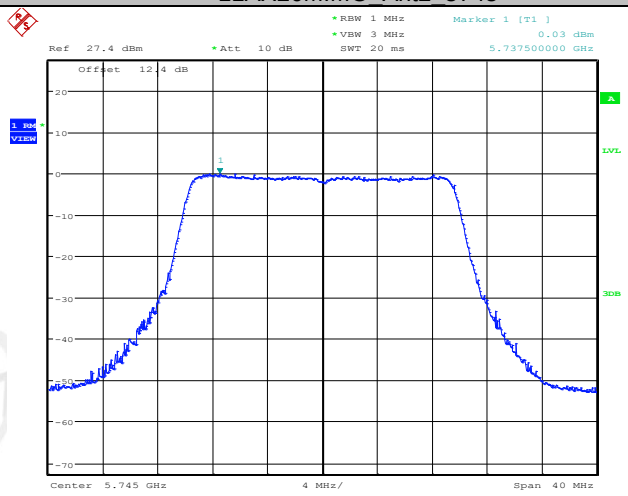

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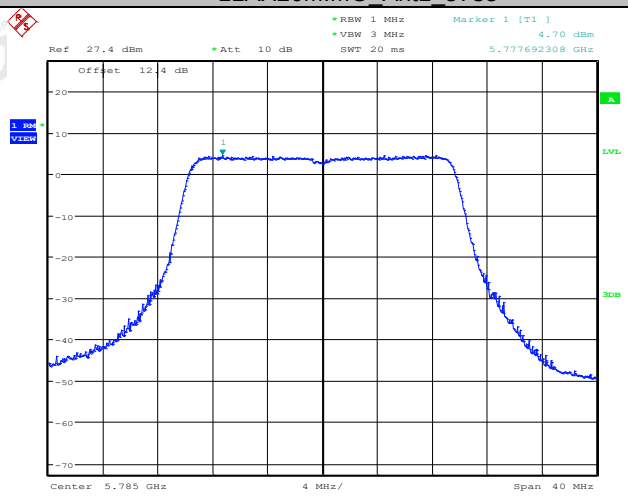

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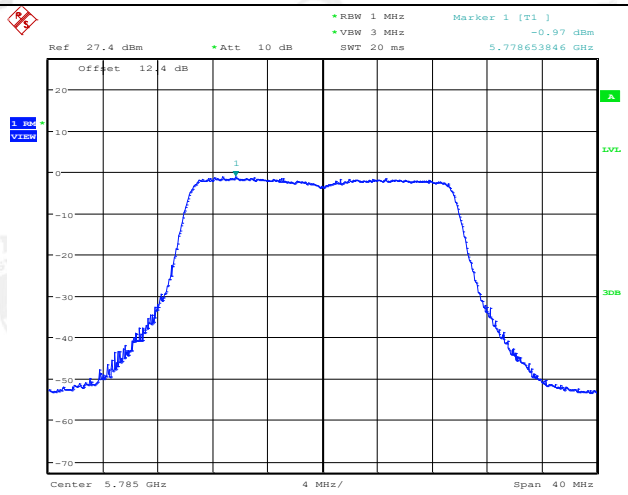

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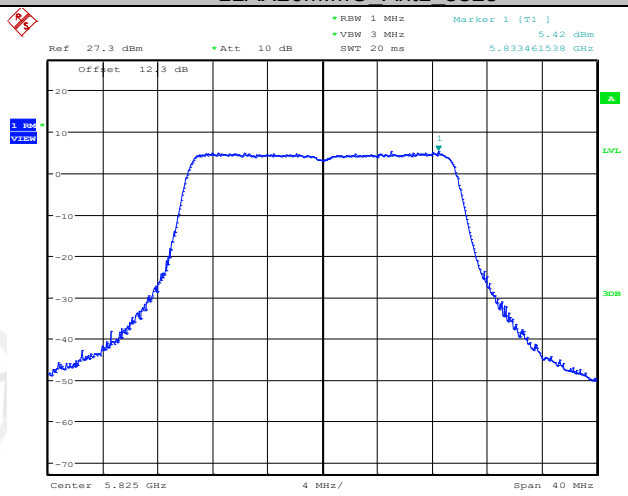

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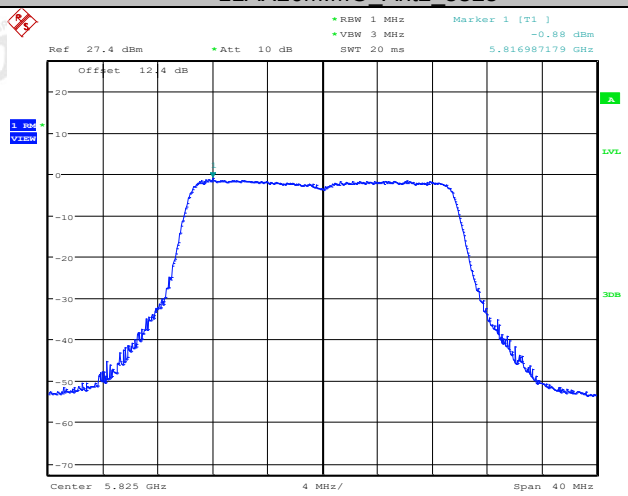

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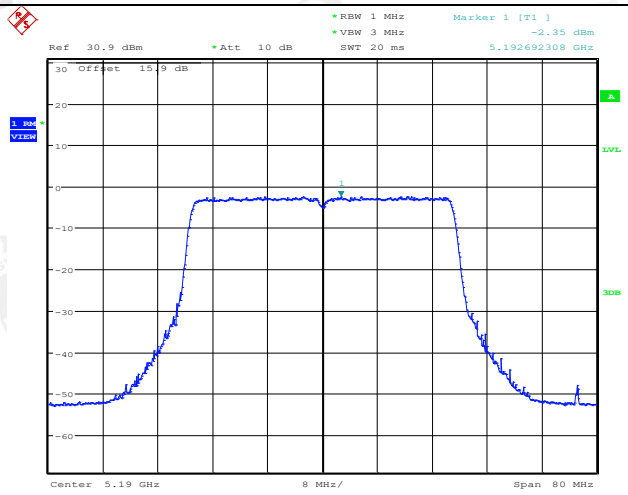

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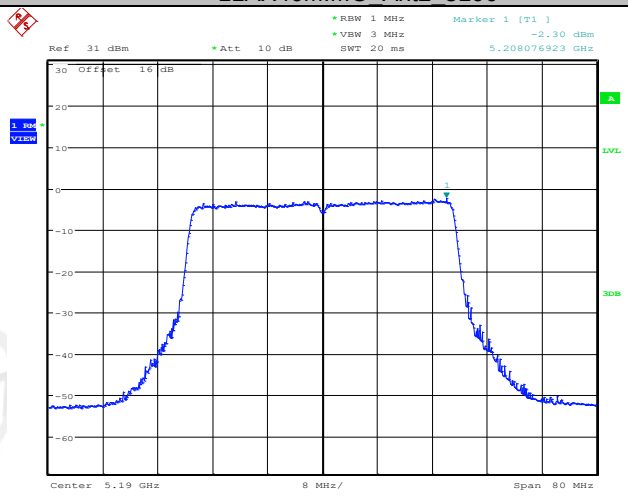

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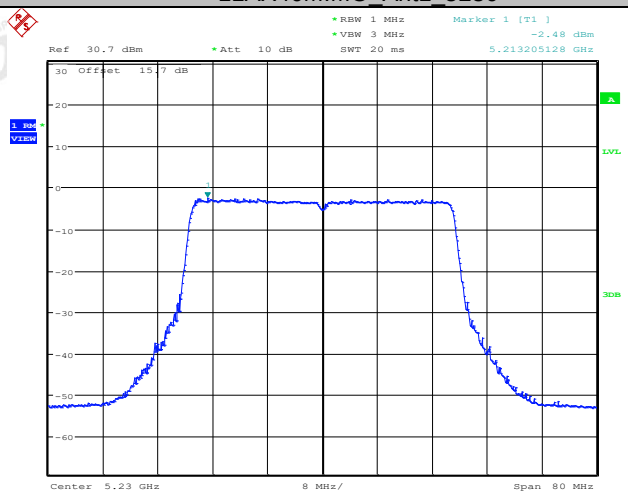

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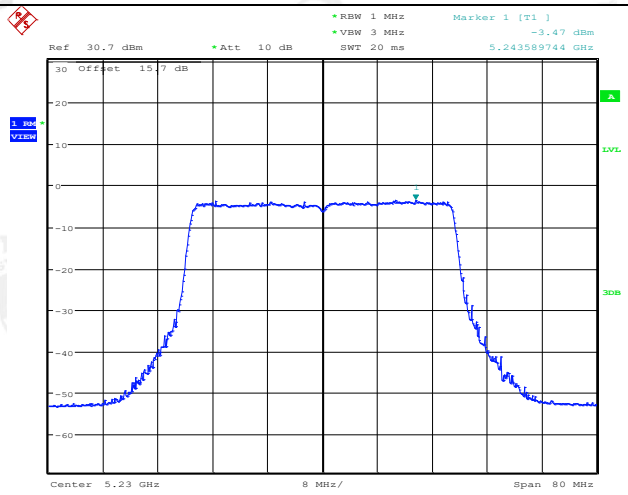

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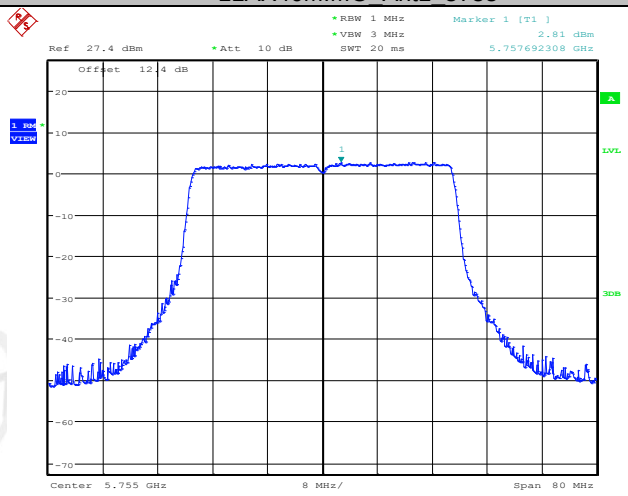

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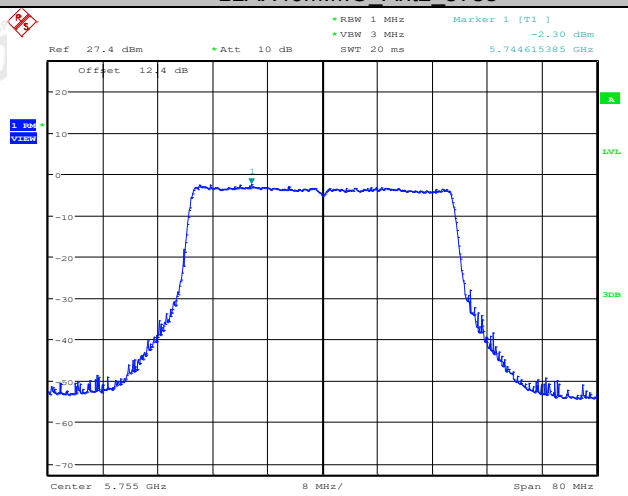

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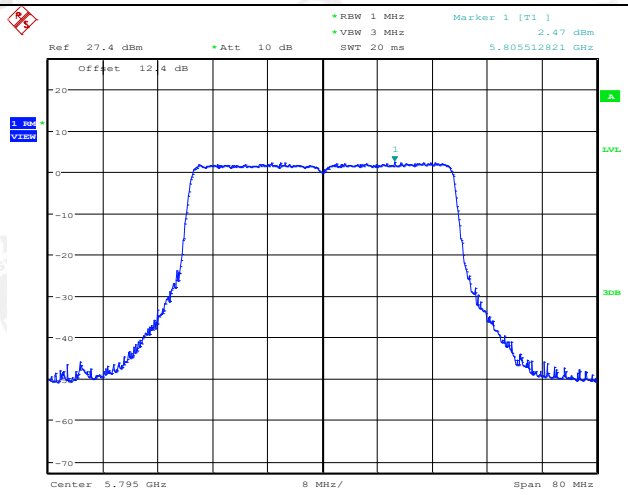

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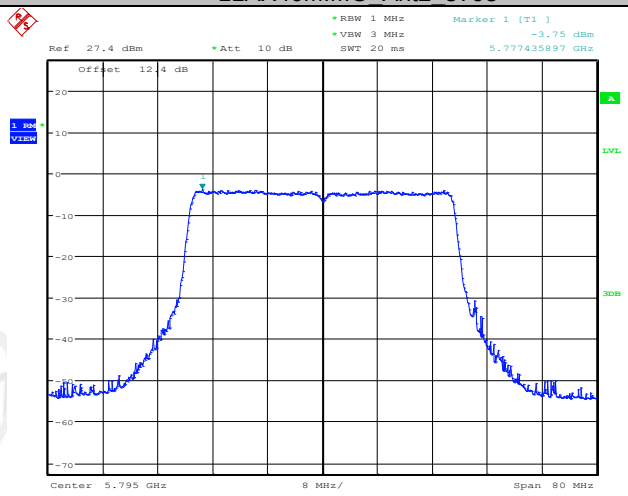

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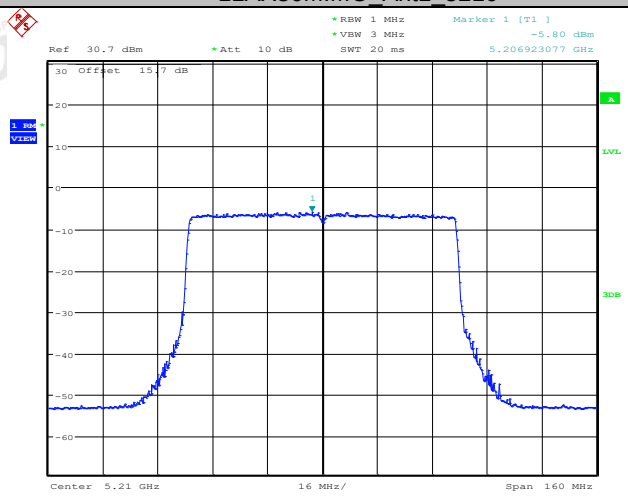

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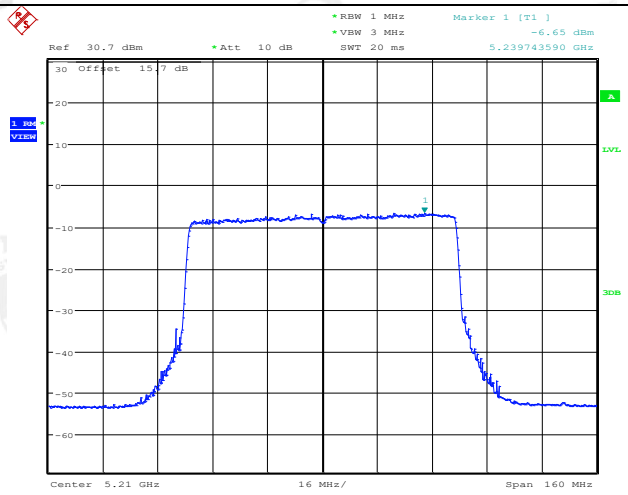

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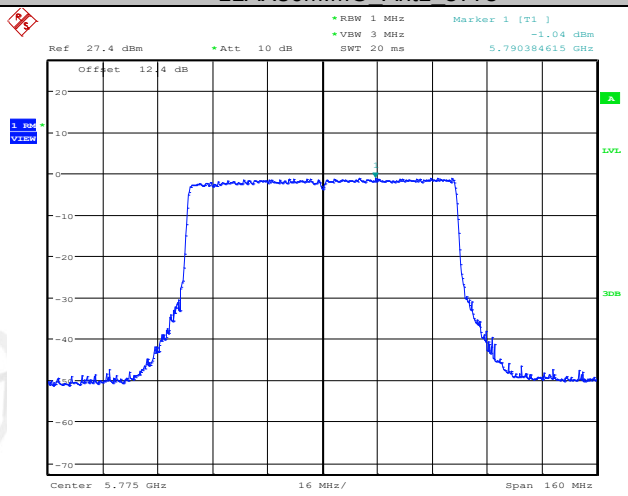

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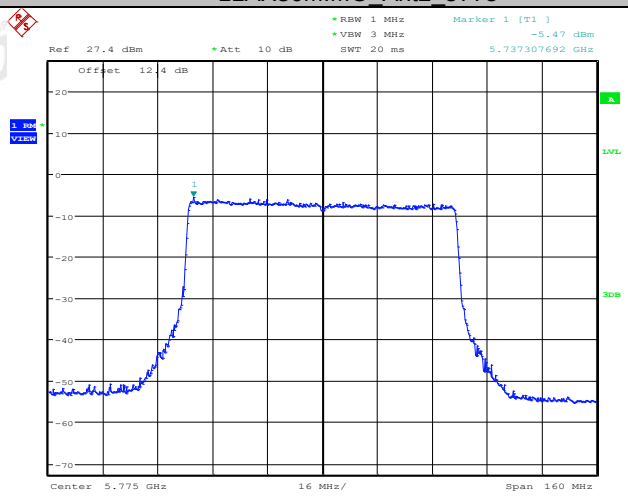

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7. Frequency Stability Measurement

7.1. Limit of Frequency Stability

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

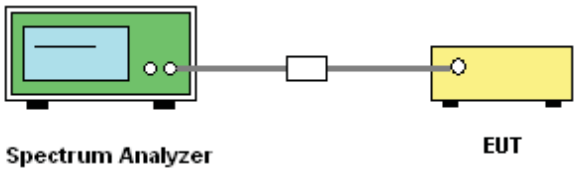
7.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

7.3. Test procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

7.4. Test setup



7.5. Test result

Voltage							
Antenna	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
ANT1	5180	NV	NT	-32000	-6.177606	20	Pass
		LV	NT	-32000	-6.177606	20	Pass
		HV	NT	-32000	-6.177606	20	Pass
ANT2	5180	NV	NT	-34000	-6.563707	20	Pass
		LV	NT	-35000	-6.756757	20	Pass
		HV	NT	-34000	-6.563707	20	Pass
ANT1	5200	NV	NT	-32000	-6.153846	20	Pass
		LV	NT	-33000	-6.346154	20	Pass
		HV	NT	-33000	-6.346154	20	Pass
ANT2	5200	NV	NT	-35000	-6.730769	20	Pass
		LV	NT	-33000	-6.346154	20	Pass
		HV	NT	-34000	-6.538462	20	Pass
ANT1	5240	NV	NT	-34000	-6.488550	20	Pass
		LV	NT	-34000	-6.488550	20	Pass
		HV	NT	-34000	-6.488550	20	Pass

ANT2	5240	NV	NT	-34000	-6.488550	20	Pass
		LV	NT	-34000	-6.488550	20	Pass
		HV	NT	-34000	-6.488550	20	Pass
ANT1	5745	NV	NT	-38000	-6.614447	20	Pass
		LV	NT	-38000	-6.614447	20	Pass
		HV	NT	-38000	-6.614447	20	Pass
ANT2	5745	NV	NT	-35000	-6.092254	20	Pass
		LV	NT	-35000	-6.092254	20	Pass
		HV	NT	-35000	-6.092254	20	Pass
ANT1	5785	NV	NT	-38000	-6.568712	20	Pass
		LV	NT	-40000	-6.914434	20	Pass
		HV	NT	-40000	-6.914434	20	Pass
ANT2	5785	NV	NT	-37000	-6.395851	20	Pass
		LV	NT	-37000	-6.395851	20	Pass
		HV	NT	-37000	-6.395851	20	Pass
ANT1	5825	NV	NT	-41000	-7.038627	20	Pass
		LV	NT	-40000	-6.866953	20	Pass
		HV	NT	-41000	-7.038627	20	Pass
ANT2	5825	NV	NT	-38000	-6.523605	20	Pass
		LV	NT	-39000	-6.695279	20	Pass
		HV	NT	-39000	-6.695279	20	Pass
ANT1	5190	NV	NT	-32000	-6.165703	20	Pass
		LV	NT	-33000	-6.358382	20	Pass
		HV	NT	-32000	-6.165703	20	Pass
ANT2	5190	NV	NT	-35000	-6.743738	20	Pass
		LV	NT	-34000	-6.551060	20	Pass
		HV	NT	-35000	-6.743738	20	Pass
ANT1	5230	NV	NT	-35000	-6.692161	20	Pass
		LV	NT	-36000	-6.883365	20	Pass
		HV	NT	-36000	-6.883365	20	Pass
ANT2	5230	NV	NT	-38000	-7.265774	20	Pass
		LV	NT	-36000	-6.883365	20	Pass
		HV	NT	-37000	-7.074570	20	Pass
ANT1	5755	NV	NT	-35000	-6.081668	20	Pass
		LV	NT	-37000	-6.429192	20	Pass
		HV	NT	-37000	-6.429192	20	Pass
ANT2	5755	NV	NT	-40000	-6.950478	20	Pass
		LV	NT	-41000	-7.124240	20	Pass
		HV	NT	-41000	-7.124240	20	Pass
ANT1	5795	NV	NT	-40000	-6.902502	20	Pass
		LV	NT	-40000	-6.902502	20	Pass
		HV	NT	-40000	-6.902502	20	Pass
ANT2	5795	NV	NT	-40000	-6.902502	20	Pass
		LV	NT	-42000	-7.247627	20	Pass
		HV	NT	-41000	-7.075065	20	Pass
ANT1	5210	NV	NT	-35000	-6.717850	20	Pass
		LV	NT	-34000	-6.525912	20	Pass
		HV	NT	-36000	-6.909789	20	Pass
ANT2	5210	NV	NT	-38000	-7.293666	20	Pass
		LV	NT	-37000	-7.101727	20	Pass
		HV	NT	-37000	-7.101727	20	Pass

ANT1	5775	NV	NT	-38000	-6.580087	20	Pass
		LV	NT	-39000	-6.753247	20	Pass
		HV	NT	-41000	-7.099567	20	Pass
ANT2	5775	NV	NT	-41000	-7.099567	20	Pass
		LV	NT	-43000	-7.445887	20	Pass
		HV	NT	-43000	-7.445887	20	Pass

Temperature							
Antenna	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
ANT1	5180	NV	-30	-32000	-6.177606	20	Pass
		NV	-20	-32000	-6.177606	20	Pass
		NV	-10	-32000	-6.177606	20	Pass
		NV	0	-33000	-6.370656	20	Pass
		NV	10	-33000	-6.370656	20	Pass
		NV	20	-32000	-6.177606	20	Pass
		NV	30	-33000	-6.370656	20	Pass
		NV	40	-32000	-6.177606	20	Pass
		NV	50	-33000	-6.370656	20	Pass
ANT2	5180	NV	-30	-35000	-6.756757	20	Pass
		NV	-20	-36000	-6.949807	20	Pass
		NV	-10	-36000	-6.949807	20	Pass
		NV	0	-36000	-6.949807	20	Pass
		NV	10	-35000	-6.756757	20	Pass
		NV	20	-35000	-6.756757	20	Pass
		NV	30	-37000	-7.142857	20	Pass
		NV	40	-35000	-6.756757	20	Pass
		NV	50	-35000	-6.756757	20	Pass
ANT1	5200	NV	-30	-33000	-6.346154	20	Pass
		NV	-20	-33000	-6.346154	20	Pass
		NV	-10	-33000	-6.346154	20	Pass
		NV	0	-34000	-6.538462	20	Pass
		NV	10	-34000	-6.538462	20	Pass
		NV	20	-34000	-6.538462	20	Pass
		NV	30	-33000	-6.346154	20	Pass
		NV	40	-35000	-6.730769	20	Pass
		NV	50	-34000	-6.538462	20	Pass
ANT2	5200	NV	-30	-34000	-6.538462	20	Pass
		NV	-20	-35000	-6.730769	20	Pass
		NV	-10	-34000	-6.538462	20	Pass
		NV	0	-35000	-6.730769	20	Pass
		NV	10	-34000	-6.538462	20	Pass
		NV	20	-35000	-6.730769	20	Pass
		NV	30	-34000	-6.538462	20	Pass
		NV	40	-34000	-6.538462	20	Pass
		NV	50	-35000	-6.730769	20	Pass
ANT1	5240	NV	-30	-35000	-6.679389	20	Pass
		NV	-20	-36000	-6.870229	20	Pass
		NV	-10	-35000	-6.679389	20	Pass
		NV	0	-35000	-6.679389	20	Pass
		NV	10	-35000	-6.679389	20	Pass
		NV	20	-34000	-6.488550	20	Pass

		NV	30	-35000	-6.679389	20	Pass
		NV	40	-35000	-6.679389	20	Pass
		NV	50	-35000	-6.679389	20	Pass
ANT2	5240	NV	-30	-35000	-6.679389	20	Pass
		NV	-20	-34000	-6.488550	20	Pass
		NV	-10	-34000	-6.488550	20	Pass
		NV	0	-34000	-6.488550	20	Pass
		NV	10	-34000	-6.488550	20	Pass
		NV	20	-35000	-6.679389	20	Pass
		NV	30	-35000	-6.679389	20	Pass
		NV	40	-34000	-6.488550	20	Pass
		NV	50	-35000	-6.679389	20	Pass
ANT1	5745	NV	-30	-37000	-6.440383	20	Pass
		NV	-20	-38000	-6.614447	20	Pass
		NV	-10	-38000	-6.614447	20	Pass
		NV	0	-38000	-6.614447	20	Pass
		NV	10	-39000	-6.788512	20	Pass
		NV	20	-39000	-6.788512	20	Pass
		NV	30	-39000	-6.788512	20	Pass
		NV	40	-40000	-6.962576	20	Pass
		NV	50	-38000	-6.614447	20	Pass
ANT2	5745	NV	-30	-36000	-6.266319	20	Pass
		NV	-20	-36000	-6.266319	20	Pass
		NV	-10	-35000	-6.092254	20	Pass
		NV	0	-37000	-6.440383	20	Pass
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		NV	30	-36000	-6.266319	20	Pass
		NV	40	-37000	-6.440383	20	Pass
		NV	50	-37000	-6.440383	20	Pass
ANT1	5785	NV	-30	-39000	-6.741573	20	Pass
		NV	-20	-39000	-6.741573	20	Pass
		NV	-10	-40000	-6.914434	20	Pass
		NV	0	-40000	-6.914434	20	Pass
		NV	10	-40000	-6.914434	20	Pass
		NV	20	-39000	-6.741573	20	Pass
		NV	30	-40000	-6.914434	20	Pass
		NV	40	-39000	-6.741573	20	Pass
		NV	50	-40000	-6.914434	20	Pass
ANT2	5785	NV	-30	-38000	-6.568712	20	Pass
		NV	-20	-37000	-6.395851	20	Pass
		NV	-10	-39000	-6.741573	20	Pass
		NV	0	-39000	-6.741573	20	Pass
		NV	10	-38000	-6.568712	20	Pass
		NV	20	-37000	-6.395851	20	Pass
		NV	30	-37000	-6.395851	20	Pass
		NV	40	-40000	-6.914434	20	Pass
		NV	50	-39000	-6.741573	20	Pass
ANT1	5825	NV	-30	-40000	-6.866953	20	Pass
		NV	-20	-41000	-7.038627	20	Pass
		NV	-10	-41000	-7.038627	20	Pass

		NV	0	-42000	-7.210300	20	Pass
		NV	10	-41000	-7.038627	20	Pass
		NV	20	-42000	-7.210300	20	Pass
		NV	30	-41000	-7.038627	20	Pass
		NV	40	-41000	-7.038627	20	Pass
		NV	50	-41000	-7.038627	20	Pass
ANT2	5825	NV	-30	-38000	-6.523605	20	Pass
		NV	-20	-40000	-6.866953	20	Pass
		NV	-10	-39000	-6.695279	20	Pass
		NV	0	-40000	-6.866953	20	Pass
		NV	10	-39000	-6.695279	20	Pass
		NV	20	-39000	-6.695279	20	Pass
		NV	30	-39000	-6.695279	20	Pass
		NV	40	-40000	-6.866953	20	Pass
		NV	50	-39000	-6.695279	20	Pass
ANT1	5190	NV	-30	-34000	-6.55106	20	Pass
		NV	-20	-33000	-6.358382	20	Pass
		NV	-10	-34000	-6.55106	20	Pass
		NV	0	-34000	-6.55106	20	Pass
		NV	10	-35000	-6.743738	20	Pass
		NV	20	-34000	-6.55106	20	Pass
		NV	30	-34000	-6.55106	20	Pass
		NV	40	-34000	-6.55106	20	Pass
		NV	50	-35000	-6.743738	20	Pass
ANT2	5190	NV	-30	-34000	-6.55106	20	Pass
		NV	-20	-34000	-6.55106	20	Pass
		NV	-10	-35000	-6.743738	20	Pass
		NV	0	-35000	-6.743738	20	Pass
		NV	10	-35000	-6.743738	20	Pass
		NV	20	-35000	-6.743738	20	Pass
		NV	30	-36000	-6.936416	20	Pass
		NV	40	-36000	-6.936416	20	Pass
		NV	50	-35000	-6.743738	20	Pass
ANT1	5230	NV	-30	-35000	-6.692161	20	Pass
		NV	-20	-36000	-6.883365	20	Pass
		NV	-10	-36000	-6.883365	20	Pass
		NV	0	-36000	-6.883365	20	Pass
		NV	10	-36000	-6.883365	20	Pass
		NV	20	-36000	-6.883365	20	Pass
		NV	30	-36000	-6.883365	20	Pass
		NV	40	-36000	-6.883365	20	Pass
		NV	50	-35000	-6.692161	20	Pass
ANT2	5230	NV	-30	-36000	-6.883365	20	Pass
		NV	-20	-36000	-6.883365	20	Pass
		NV	-10	-36000	-6.883365	20	Pass
		NV	0	-37000	-7.07457	20	Pass
		NV	10	-36000	-6.883365	20	Pass
		NV	20	-37000	-7.07457	20	Pass
		NV	30	-37000	-7.07457	20	Pass
		NV	40	-37000	-7.07457	20	Pass
		NV	50	-37000	-7.07457	20	Pass

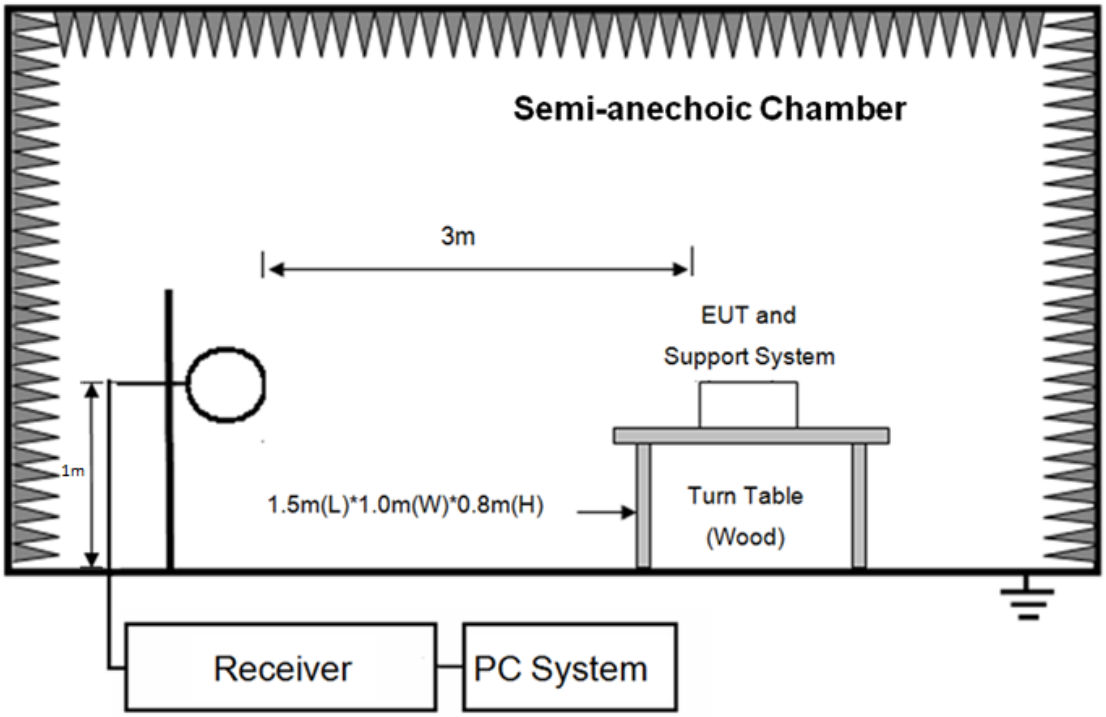
ANT1	5755	NV	-30	-38000	-6.602954	20	Pass
		NV	-20	-38000	-6.602954	20	Pass
		NV	-10	-38000	-6.602954	20	Pass
		NV	0	-40000	-6.950478	20	Pass
		NV	10	-40000	-6.950478	20	Pass
		NV	20	-40000	-6.950478	20	Pass
		NV	30	-40000	-6.950478	20	Pass
		NV	40	-40000	-6.950478	20	Pass
		NV	50	-41000	-7.124240	20	Pass
ANT2	5755	NV	-30	-40000	-6.950478	20	Pass
		NV	-20	-42000	-7.298002	20	Pass
		NV	-10	-41000	-7.124240	20	Pass
		NV	0	-43000	-7.471764	20	Pass
		NV	10	-42000	-7.298002	20	Pass
		NV	20	-41000	-7.124240	20	Pass
		NV	30	-41000	-7.124240	20	Pass
		NV	40	-41000	-7.124240	20	Pass
		NV	50	-42000	-7.298002	20	Pass
ANT1	5795	NV	-30	-40000	-6.902502	20	Pass
		NV	-20	-41000	-7.075065	20	Pass
		NV	-10	-41000	-7.075065	20	Pass
		NV	0	-41000	-7.075065	20	Pass
		NV	10	-41000	-7.075065	20	Pass
		NV	20	-40000	-6.902502	20	Pass
		NV	30	-41000	-7.075065	20	Pass
		NV	40	-41000	-7.075065	20	Pass
		NV	50	-40000	-6.902502	20	Pass
ANT2	5795	NV	-30	-41000	-7.075065	20	Pass
		NV	-20	-40000	-6.902502	20	Pass
		NV	-10	-43000	-7.420190	20	Pass
		NV	0	-41000	-7.075065	20	Pass
		NV	10	-41000	-7.075065	20	Pass
		NV	20	-42000	-7.247627	20	Pass
		NV	30	-41000	-7.075065	20	Pass
		NV	40	-41000	-7.075065	20	Pass
		NV	50	-41000	-7.075065	20	Pass
ANT1	5210	NV	-30	-35000	-6.717850	20	Pass
		NV	-20	-36000	-6.909789	20	Pass
		NV	-10	-36000	-6.909789	20	Pass
		NV	0	-36000	-6.909789	20	Pass
		NV	10	-36000	-6.909789	20	Pass
		NV	20	-36000	-6.909789	20	Pass
		NV	30	-36000	-6.909789	20	Pass
		NV	40	-37000	-7.101727	20	Pass
		NV	50	-37000	-7.101727	20	Pass
ANT2	5210	NV	-30	-36000	-6.909789	20	Pass
		NV	-20	-37000	-7.101727	20	Pass
		NV	-10	-37000	-7.101727	20	Pass
		NV	0	-36000	-6.909789	20	Pass
		NV	10	-37000	-7.101727	20	Pass
		NV	20	-37000	-7.101727	20	Pass

		NV	30	-37000	-7.101727	20	Pass
		NV	40	-37000	-7.101727	20	Pass
		NV	50	-37000	-7.101727	20	Pass
ANT1	5775	NV	-30	-40000	-6.926407	20	Pass
		NV	-20	-41000	-7.099567	20	Pass
		NV	-10	-41000	-7.099567	20	Pass
		NV	0	-41000	-7.099567	20	Pass
		NV	10	-41000	-7.099567	20	Pass
		NV	20	-41000	-7.099567	20	Pass
		NV	30	-40000	-6.926407	20	Pass
		NV	40	-42000	-7.272727	20	Pass
		NV	50	-41000	-7.099567	20	Pass
ANT2	5775	NV	-30	-42000	-7.272727	20	Pass
		NV	-20	-42000	-7.272727	20	Pass
		NV	-10	-41000	-7.099567	20	Pass
		NV	0	-41000	-7.099567	20	Pass
		NV	10	-42000	-7.272727	20	Pass
		NV	20	-44000	-7.619048	20	Pass
		NV	30	-43000	-7.445887	20	Pass
		NV	40	-43000	-7.445887	20	Pass
		NV	50	-42000	-7.272727	20	Pass

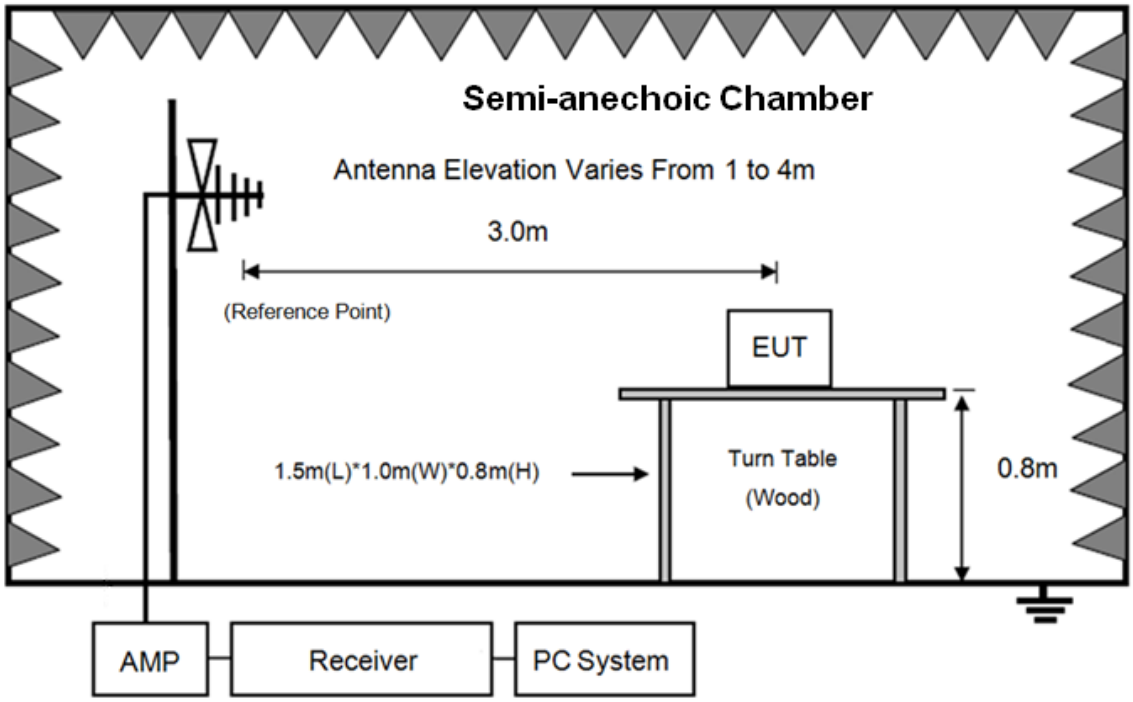
8. Emissions in restricted frequency bands

8.1. Block diagram of test setup

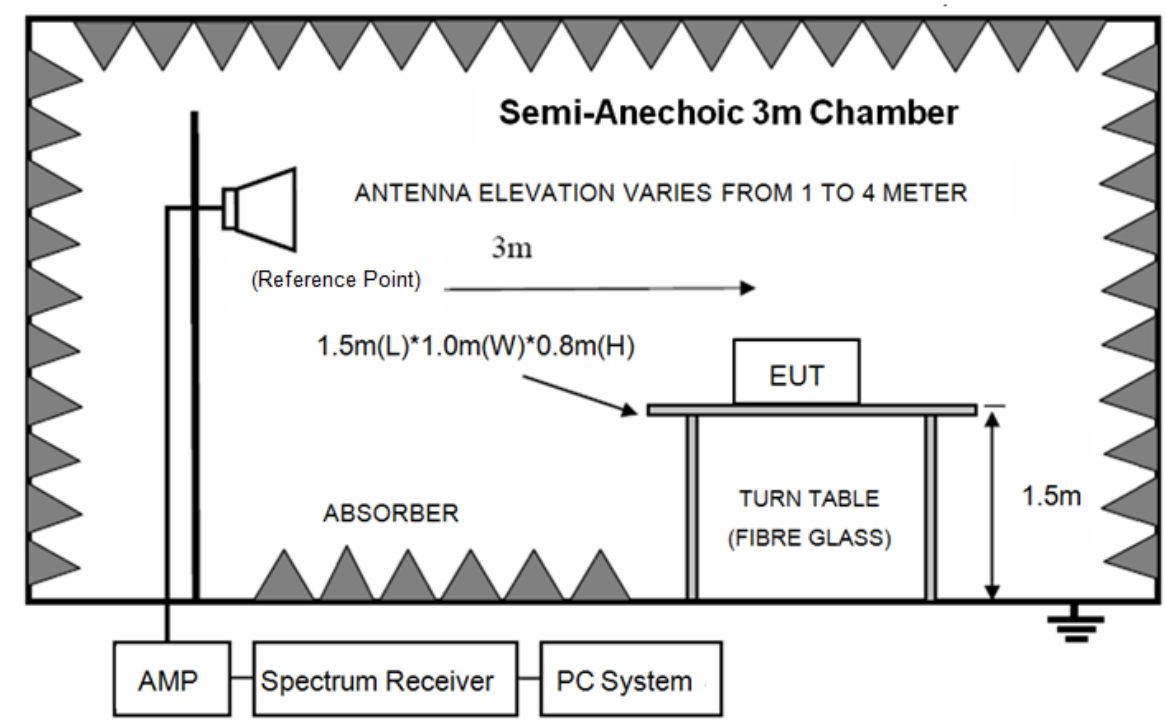
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz – 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

8.3.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2]Above 38.6

8.3.2 FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$$

8.3.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

8.3. Test procedure

(1) EUT height should be 0.8 m for below 1 GHz at a semi‐anechoic chamber while EUT height should be 1.5 m for above 1GHz at full chamber or semi‐anechoic chamber ground with absorbers

(2) Setup EUT and assistant system according clause 2.3 and 8.2

(3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test distance
9 kHz-30 MHz	Active Loop antenna	3 m
30 MHz-1 GHz	Trilog Broadband Antenna	3 m
1 GHz-18 GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3 m
18 GHz-40 GHz	Horn Antenna(18GHz-40GHz)	1 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical

axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 40 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 40 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(6) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(7) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

(8) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3MHz for Peak measure, the RBW is set at 1 MHz, VBW is set at 10 Hz for AV value.

8.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

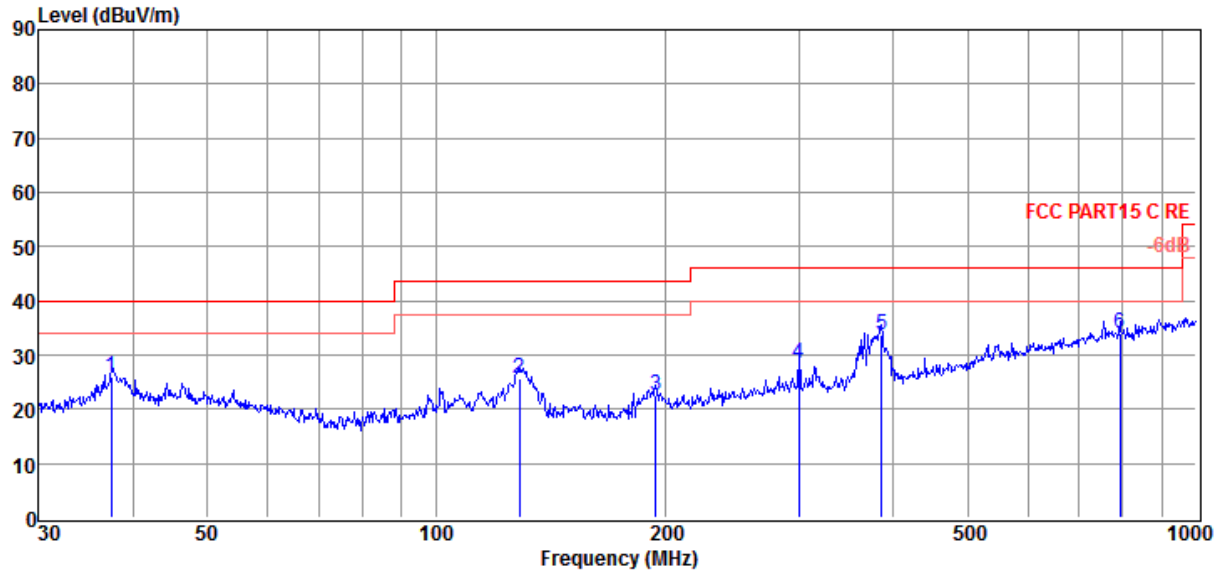
Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 11a mode.

Note3: For below test data, when the limit tabular marked “/” means this frequency point is the fundamental emission and no need comply with this limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC BELOW1G.EM6	
Test Date	: 2020-12-17	**Tested By**	: Kennys
EUT	: M6 Mesh Wi-Fi Router	**Model Number**	: M6
Power Supply	: AC 110V 60HZ	**Test Mode**	: Tx mode
Condition	: Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2019 VULB 9163 2#/3m/HORIZONTAL
Memo	:		

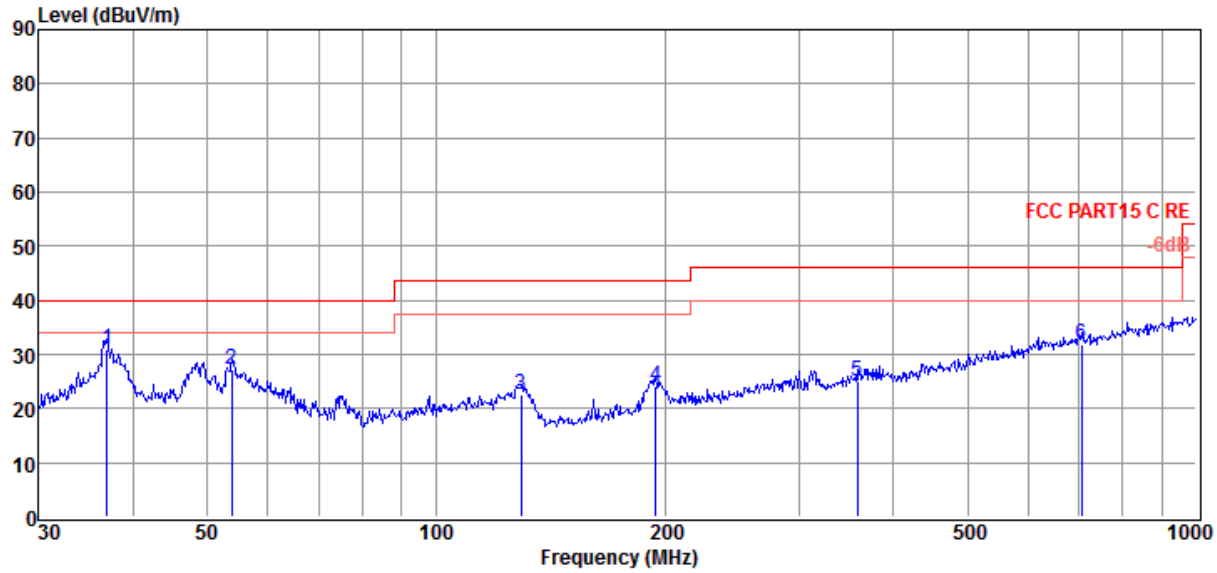


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	37.42	8.25	13.97	3.68	25.90	40.00	-14.10	QP	HORIZONTAL
2	128.56	12.23	8.98	4.42	25.63	43.50	-17.87	QP	HORIZONTAL
3	194.45	6.55	11.18	4.81	22.54	43.50	-20.96	QP	HORIZONTAL
4	300.37	8.93	14.01	5.37	28.31	46.00	-17.69	QP	HORIZONTAL
5	385.28	12.56	15.30	5.77	33.63	46.00	-12.37	QP	HORIZONTAL
6	793.40	5.50	21.12	7.52	34.14	46.00	-11.86	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC BELOW1G.EM6	
Test Date	: 2020-12-17	**Tested By**	: Kennys
EUT	: M6 Mesh Wi-Fi Router	**Model Number**	: M6
Power Supply	: AC 110V 60HZ	**Test Mode**	: Tx mode
Condition	: Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2019 VULB 9163 2#/3m/VERTICAL
Memo	:		



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	36.90	13.30	13.85	3.68	30.83	40.00	-9.17	QP	VERTICAL
2	53.88	10.63	12.64	3.82	27.09	40.00	-12.91	QP	VERTICAL
3	129.47	9.24	8.87	4.42	22.53	43.50	-20.97	QP	VERTICAL
4	194.45	8.03	11.18	4.81	24.02	43.50	-19.48	QP	VERTICAL
5	357.93	4.57	14.92	5.65	25.14	46.00	-20.86	QP	VERTICAL
6	706.70	4.76	19.99	7.20	31.95	46.00	-14.05	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

Freq (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor(dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector type	Polarization
11a CH36									
5590.00	47.97	32.79	43.22	6.68	44.22	74.00	-29.78	Peak	HORIZONTAL
7120.00	46.51	37.07	42.92	7.70	48.36	74.00	-25.64	Peak	HORIZONTAL
7885.00	45.34	37.84	42.82	8.56	48.92	74.00	-25.08	Peak	HORIZONTAL
10367.00	43.84	40.01	42.38	9.35	50.82	74.00	-23.18	Peak	HORIZONTAL
11965.00	45.92	39.14	42.30	10.51	53.27	74.00	-20.73	Peak	HORIZONTAL
15331.00	42.77	39.34	40.16	11.61	53.56	74.00	-20.44	Peak	HORIZONTAL
6525.00	45.53	35.38	43.01	7.28	45.18	74.00	-28.82	Peak	VERTICAL
7851.00	45.86	37.79	42.82	8.52	49.35	74.00	-24.65	Peak	VERTICAL
9109.00	44.07	38.79	42.57	8.69	48.98	74.00	-25.02	Peak	VERTICAL
10367.00	43.96	40.01	42.38	9.35	50.94	74.00	-23.06	Peak	VERTICAL
12271.00	46.21	38.83	42.01	10.59	53.62	74.00	-20.38	Peak	VERTICAL
15331.00	42.40	39.34	40.16	11.61	53.19	74.00	-20.81	Peak	VERTICAL
11a CH40									
6950.00	45.75	36.83	42.95	7.53	47.16	74.00	-26.84	Peak	HORIZONTAL
8021.00	45.87	37.99	42.80	8.69	49.75	74.00	-24.25	Peak	HORIZONTAL
9806.00	45.95	39.34	42.44	9.23	52.08	74.00	-21.92	Peak	HORIZONTAL
10401.00	45.86	40.06	42.38	9.35	52.89	74.00	-21.11	Peak	HORIZONTAL
12611.00	45.50	38.82	41.66	10.64	53.30	74.00	-20.70	Peak	HORIZONTAL
15909.00	42.83	38.51	40.11	11.53	52.76	74.00	-21.24	Peak	HORIZONTAL
6984.00	46.16	36.95	42.94	7.55	47.72	74.00	-26.28	Peak	VERTICAL
8191.00	45.97	37.89	42.76	8.67	49.77	74.00	-24.23	Peak	VERTICAL
9670.00	45.43	39.24	42.46	9.12	51.33	74.00	-22.67	Peak	VERTICAL
10401.00	45.72	40.06	42.38	9.35	52.75	74.00	-21.25	Peak	VERTICAL
11540.00	45.36	39.65	42.32	9.98	52.67	74.00	-21.33	Peak	VERTICAL
15620.00	43.14	38.86	40.14	11.57	53.43	74.00	-20.57	Peak	VERTICAL
11a CH48									
6440.00	45.64	35.05	43.03	7.23	44.89	74.00	-29.11	Peak	HORIZONTAL
9381.00	44.52	39.00	42.51	8.90	49.91	74.00	-24.09	Peak	HORIZONTAL
10860.00	44.89	40.34	42.35	9.31	52.19	74.00	-21.81	Peak	HORIZONTAL
11931.00	45.15	39.18	42.30	10.46	52.49	74.00	-21.51	Peak	HORIZONTAL
13869.00	42.07	40.74	40.42	10.90	53.29	74.00	-20.71	Peak	HORIZONTAL
15841.00	42.22	38.59	40.11	11.54	52.24	74.00	-21.76	Peak	HORIZONTAL
6661.00	46.38	35.85	42.99	7.36	46.60	74.00	-27.40	Peak	VERTICAL
9653.00	45.36	39.22	42.46	9.11	51.23	74.00	-22.77	Peak	VERTICAL
10894.00	46.06	40.36	42.35	9.31	53.38	74.00	-20.62	Peak	VERTICAL
13835.00	41.23	40.70	40.45	10.89	52.37	74.00	-21.63	Peak	VERTICAL
15144.00	40.69	39.71	40.18	11.63	51.85	74.00	-22.15	Peak	VERTICAL
15994.00	42.34	38.41	40.10	11.52	52.17	74.00	-21.83	Peak	VERTICAL

Freq (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor(dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector type	Polarization
11a CH149									
5811.00	48.03	33.01	43.16	6.84	44.72	74.00	-29.28	Peak	HORIZONTAL
7290.00	45.74	37.17	42.90	7.89	47.90	74.00	-26.10	Peak	HORIZONTAL
9381.00	45.09	39.00	42.51	8.90	50.48	74.00	-23.52	Peak	HORIZONTAL
11336.00	45.46	39.93	42.33	9.72	52.78	74.00	-21.22	Peak	HORIZONTAL
12849.00	44.02	39.30	41.41	10.67	52.58	74.00	-21.42	Peak	HORIZONTAL
15501.00	43.21	39.00	40.15	11.58	53.64	74.00	-20.36	Peak	HORIZONTAL
6525.00	46.31	35.38	43.01	7.28	45.96	74.00	-28.04	Peak	VERTICAL
8021.00	45.18	37.99	42.80	8.69	49.06	74.00	-24.94	Peak	VERTICAL
9891.00	45.64	39.41	42.42	9.29	51.92	74.00	-22.08	Peak	VERTICAL
11489.00	45.24	39.72	42.32	9.91	52.55	74.00	-21.45	Peak	VERTICAL
12849.00	44.96	39.30	41.41	10.67	53.52	74.00	-20.48	Peak	VERTICAL
15824.00	43.20	38.61	40.12	11.54	53.23	74.00	-20.77	Peak	VERTICAL
11a CH157									
7222.00	45.88	37.13	42.91	7.81	47.91	74.00	-26.09	Peak	HORIZONTAL
9007.00	44.20	38.71	42.59	8.61	48.93	74.00	-25.07	Peak	HORIZONTAL
10520.00	44.71	40.21	42.37	9.34	51.89	74.00	-22.11	Peak	HORIZONTAL
11540.00	45.38	39.65	42.32	9.98	52.69	74.00	-21.31	Peak	HORIZONTAL
12645.00	45.55	38.89	41.62	10.64	53.46	74.00	-20.54	Peak	HORIZONTAL
15739.00	43.30	38.71	40.12	11.55	53.44	74.00	-20.56	Peak	HORIZONTAL
6355.00	46.30	34.69	43.04	7.18	45.13	74.00	-28.87	Peak	VERTICAL
8191.00	46.28	37.89	42.76	8.67	50.08	74.00	-23.92	Peak	VERTICAL
10486.00	45.17	40.18	42.37	9.34	52.32	74.00	-21.68	Peak	VERTICAL
11999.00	45.97	39.10	42.30	10.55	53.32	74.00	-20.68	Peak	VERTICAL
12849.00	44.98	39.30	41.41	10.67	53.54	74.00	-20.46	Peak	VERTICAL
15654.00	43.53	38.82	40.13	11.56	53.78	74.00	-20.22	Peak	VERTICAL
11a CH165									
5539.00	47.13	32.74	43.24	6.65	43.28	74.00	-30.72	Peak	HORIZONTAL
7086.00	46.14	37.05	42.93	7.66	47.92	74.00	-26.08	Peak	HORIZONTAL
9449.00	44.44	39.06	42.50	8.95	49.95	74.00	-24.05	Peak	HORIZONTAL
11370.00	46.02	39.88	42.33	9.76	53.33	74.00	-20.67	Peak	HORIZONTAL
12254.00	45.60	38.85	42.03	10.59	53.01	74.00	-20.99	Peak	HORIZONTAL
15416.00	42.85	39.17	40.16	11.60	53.46	74.00	-20.54	Peak	HORIZONTAL
7120.00	46.58	37.07	42.92	7.70	48.43	74.00	-25.57	Peak	VERTICAL
8565.00	45.68	37.83	42.68	8.64	49.47	74.00	-24.53	Peak	VERTICAL
9653.00	46.06	39.22	42.46	9.11	51.93	74.00	-22.07	Peak	VERTICAL
11081.00	44.58	40.29	42.34	9.40	51.93	74.00	-22.07	Peak	VERTICAL
12305.00	46.05	38.79	41.97	10.59	53.46	74.00	-20.54	Peak	VERTICAL
15654.00	42.59	38.82	40.13	11.56	52.84	74.00	-21.16	Peak	VERTICAL
Conclusion: Pass									
Note: -27 dBm/MHz Limit=95.2+EIRP[dBm]=95.2-27=68.2 dBμV/m For transmitters operating in the 5150MHz-5250MHz, 5250MHz-5350MHz, 5470MHz-5725MHz, 5725MHz-5850MHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.									

Note: 1. 30MHz~40GHz: (11a, 11n20, n40, 11ac20, 11ac40,11ac80, 11ax20, 11ax40,11ax80 mode all have been

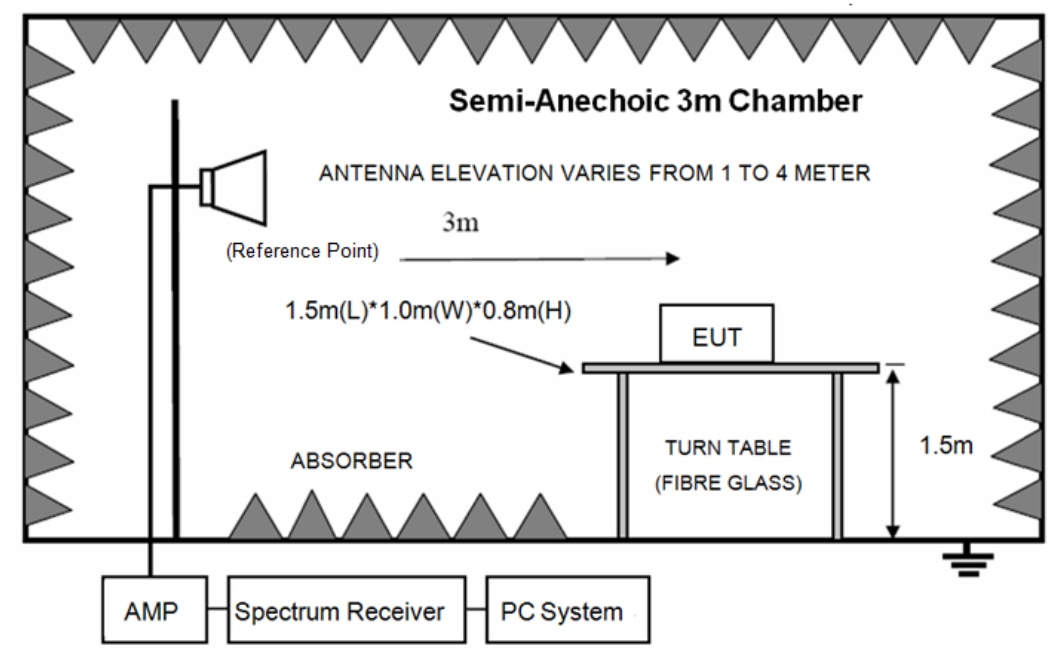
tested, only 11n20 mode is the worst case and reported.)

2. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

9. Band Edge Compliance

9.1. Block diagram of test setup



9.2. Limit

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm / MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm / MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/ MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm / MHz.

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(6) The provisions of §15.205 apply to intentional radiators operating under this section.

-27 dBm/MHz Limit=95.2+EIRP [dBm]=95.2-27=68.2 dBμV/m

9.3. Test procedure

Same with clause 8.3 except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

9.4. Test result

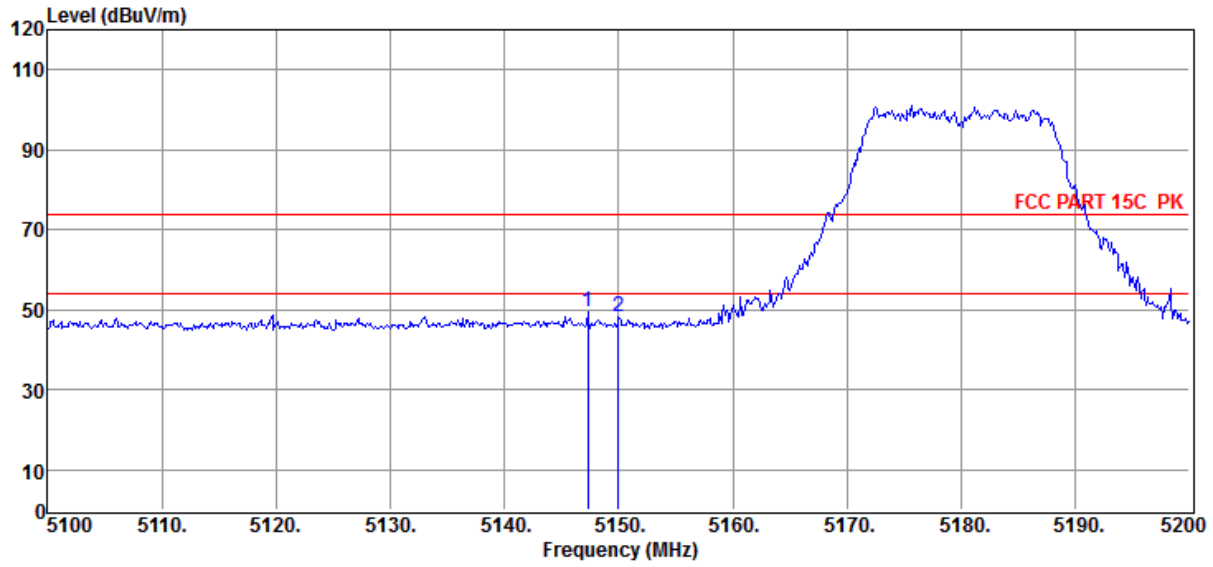
Pass. (See below detailed test result)

Note1: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

Note2: 11a, 11n20, n40, 11ac20, 11ac40, 11ac80, 11ax20, 11ax40, 11ax80 mode all have been tested, 11a mode of ANT1 and ANT 2, 11n20, n40, 11ac20, 11ac40, 11ac80, 11ax20, 11ax40, 11ax80 mode of MIMO mode is worse case and reported

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-23	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11A 5180 ANT1			

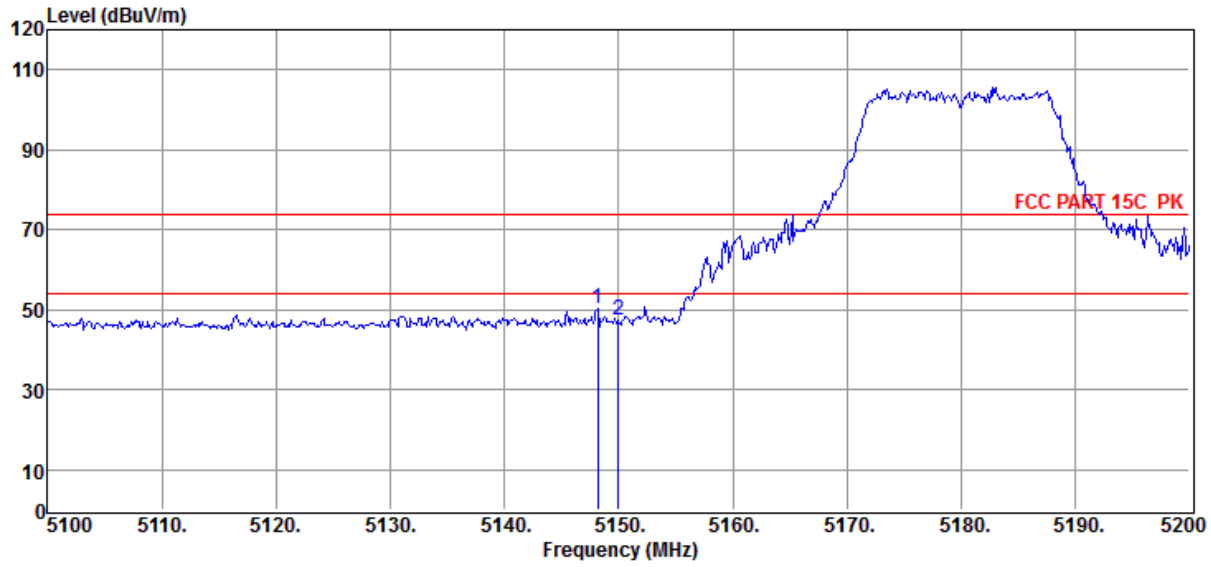


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5147.30	53.80	32.56	43.36	6.37	49.37	74.00	-24.63	Peak	VERTICAL
2	5150.00	52.64	32.56	43.36	6.38	48.22	74.00	-25.78	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-23	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11A 5180 ANT1			

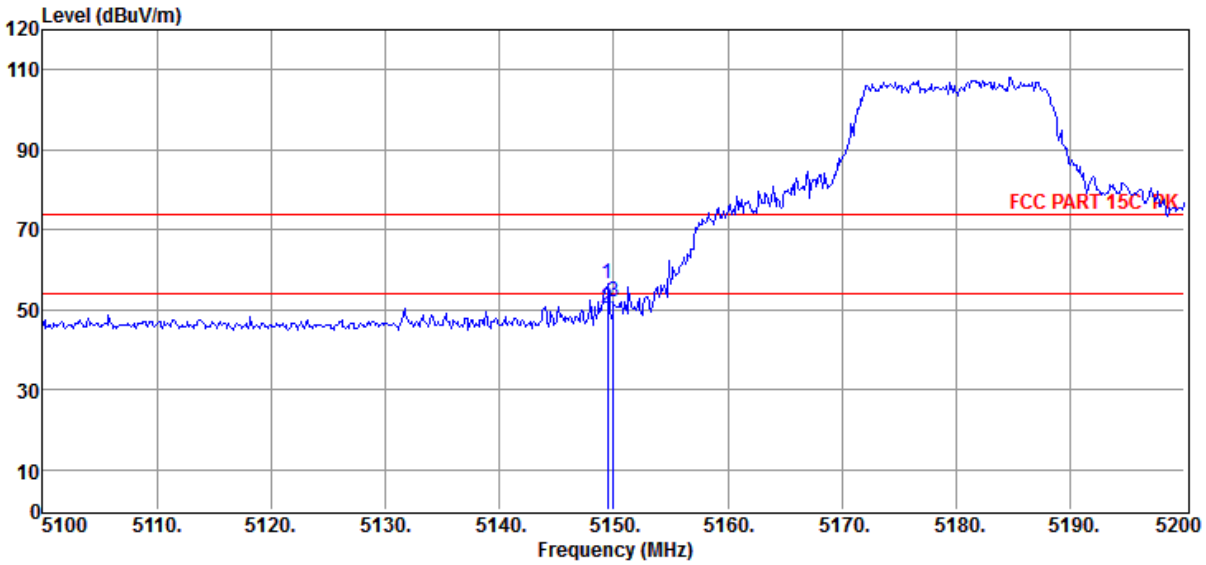


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5148.20	54.67	32.56	43.36	6.37	50.24	74.00	-23.76	Peak	HORIZONTAL
2	5150.00	51.80	32.56	43.36	6.38	47.38	74.00	-26.62	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-23	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11A 5180 ANT2			

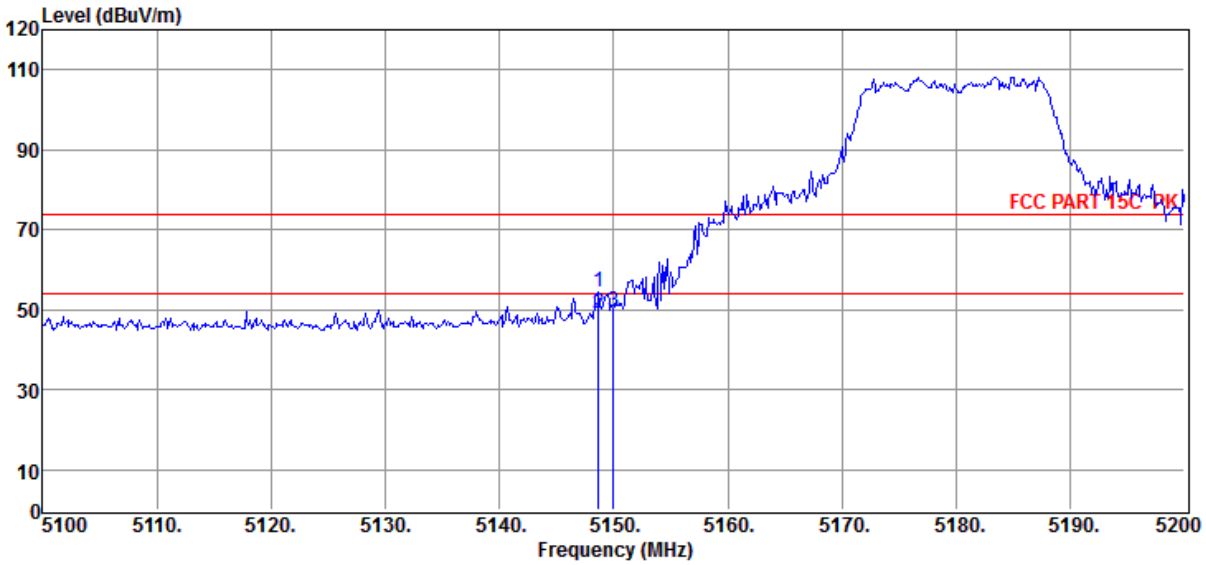


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5149.50	60.75	32.56	43.36	6.37	56.32	74.00	-17.68	Peak	HORIZONTAL
2	5149.50	54.66	32.56	43.36	6.37	50.23	54.00	-3.77	Average	HORIZONTAL
3	5150.00	56.51	32.56	43.36	6.38	52.09	74.00	-21.91	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-23	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11A 5180 ANT2			

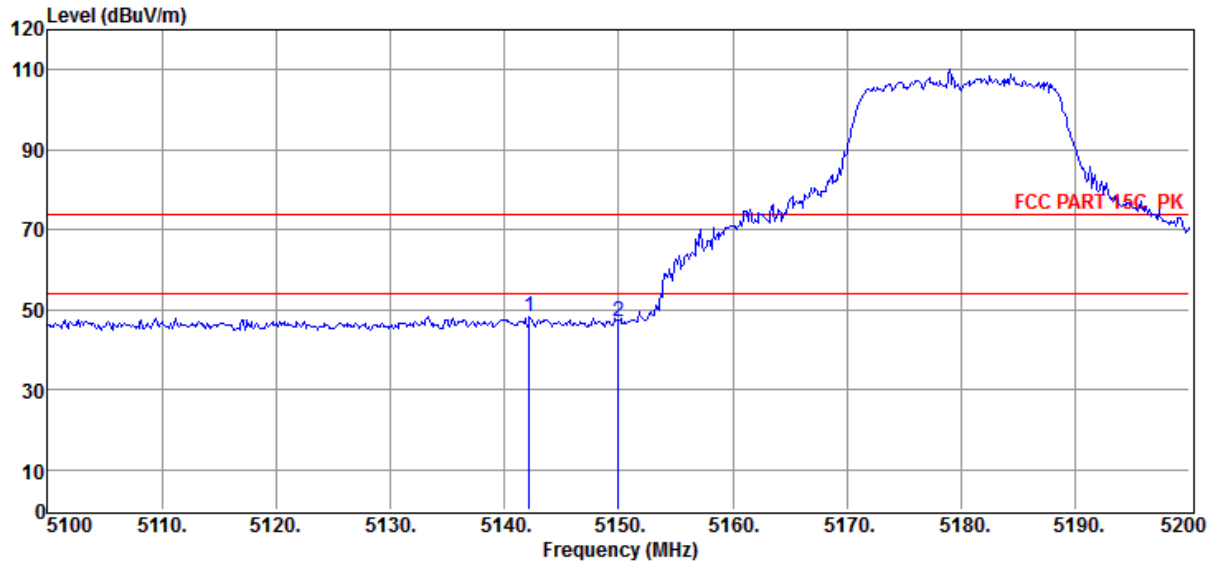


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5148.70	58.66	32.56	43.36	6.37	54.23	74.00	-19.77	Peak	VERTICAL
2	5148.70	53.66	32.56	43.36	6.37	49.23	54.00	-4.77	Average	VERTICAL
3	5150.00	53.92	32.56	43.36	6.38	49.50	74.00	-24.50	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-23	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11N20 5180			

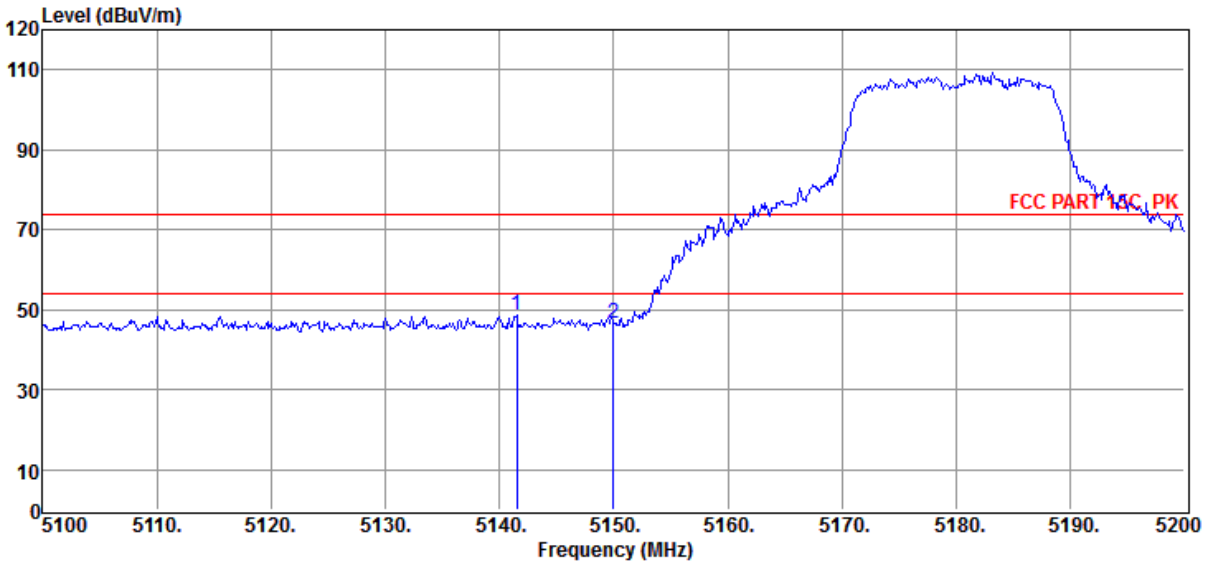


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5142.20	52.65	32.56	43.37	6.37	48.21	74.00	-25.79	Peak	HORIZONTAL
2	5150.00	51.49	32.56	43.36	6.38	47.07	74.00	-26.93	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-23	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11N20 5180			

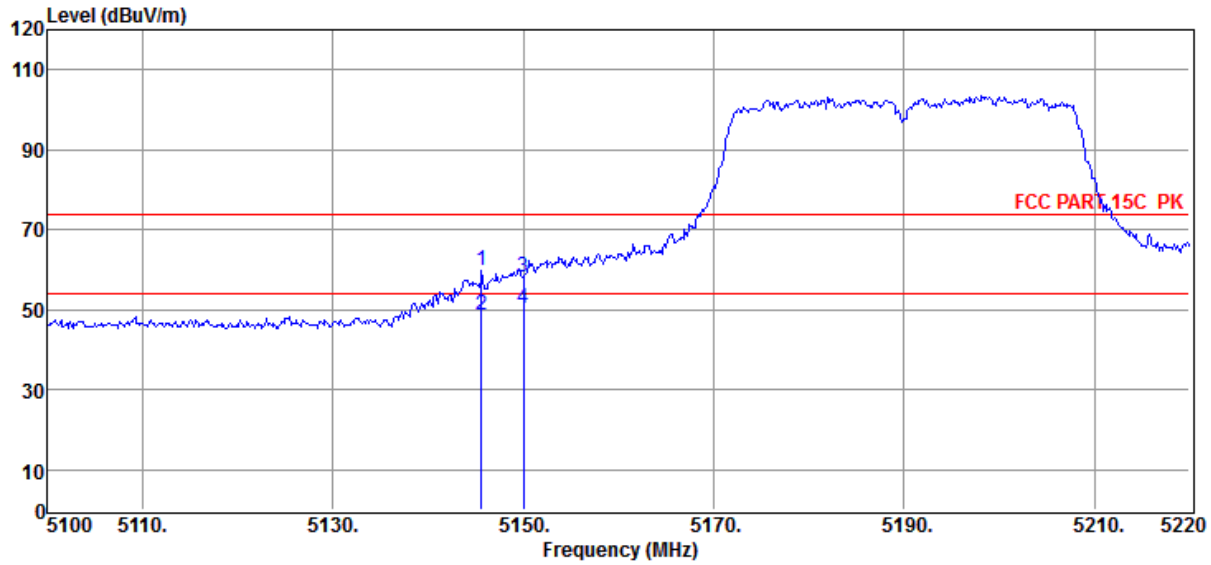


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5141.50	52.97	32.56	43.37	6.37	48.53	74.00	-25.47	Peak	VERTICAL
2	5150.00	51.05	32.56	43.36	6.38	46.63	74.00	-27.37	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11N40 5190			

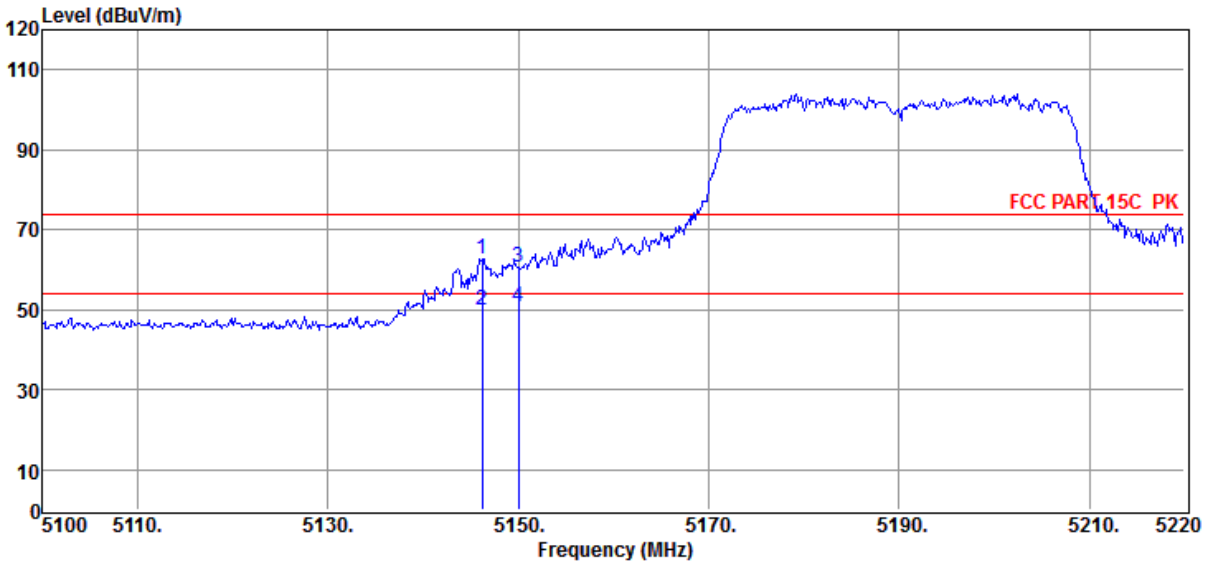


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5145.60	64.14	32.56	43.37	6.37	59.70	74.00	-14.30	Peak	HORIZONTAL
2	5145.60	53.26	32.56	43.37	6.37	48.82	54.00	-5.18	Average	HORIZONTAL
3	5150.04	62.66	32.56	43.36	6.38	58.24	74.00	-15.76	Peak	HORIZONTAL
4	5150.04	54.88	32.56	43.36	6.38	50.46	54.00	-3.54	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11N40 5190			

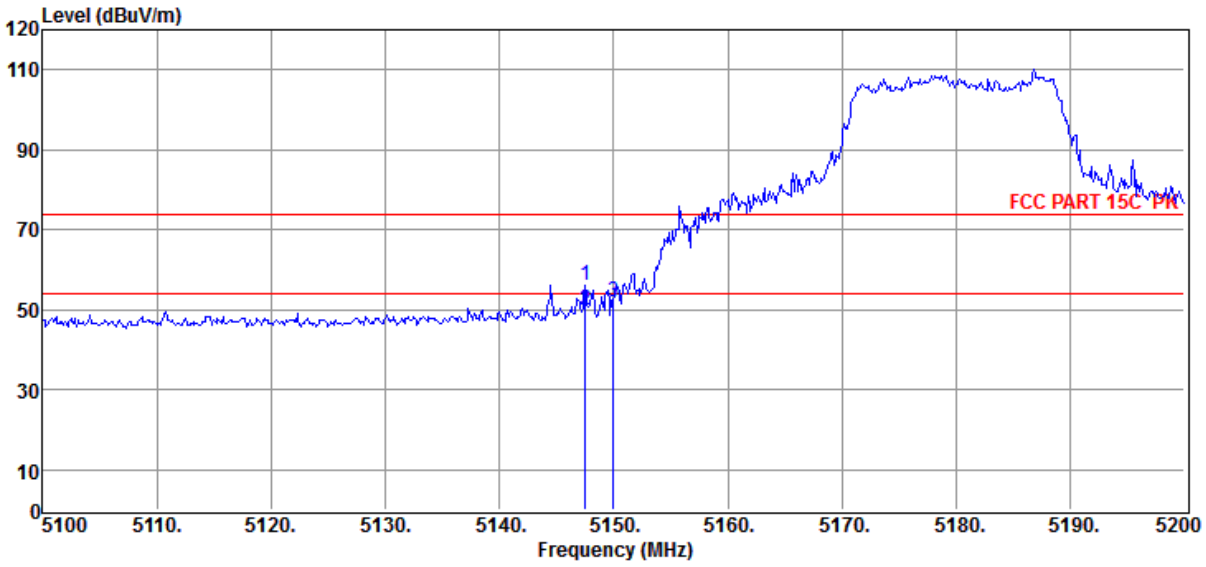


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5146.20	67.28	32.56	43.37	6.37	62.84	74.00	-11.16	Peak	VERTICAL
2	5146.20	54.27	32.56	43.37	6.37	49.83	54.00	-4.17	Average	VERTICAL
3	5150.04	64.92	32.56	43.36	6.38	60.50	74.00	-13.50	Peak	VERTICAL
4	5150.04	55.33	32.56	43.36	6.38	50.91	54.00	-3.09	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11AC20 5180			

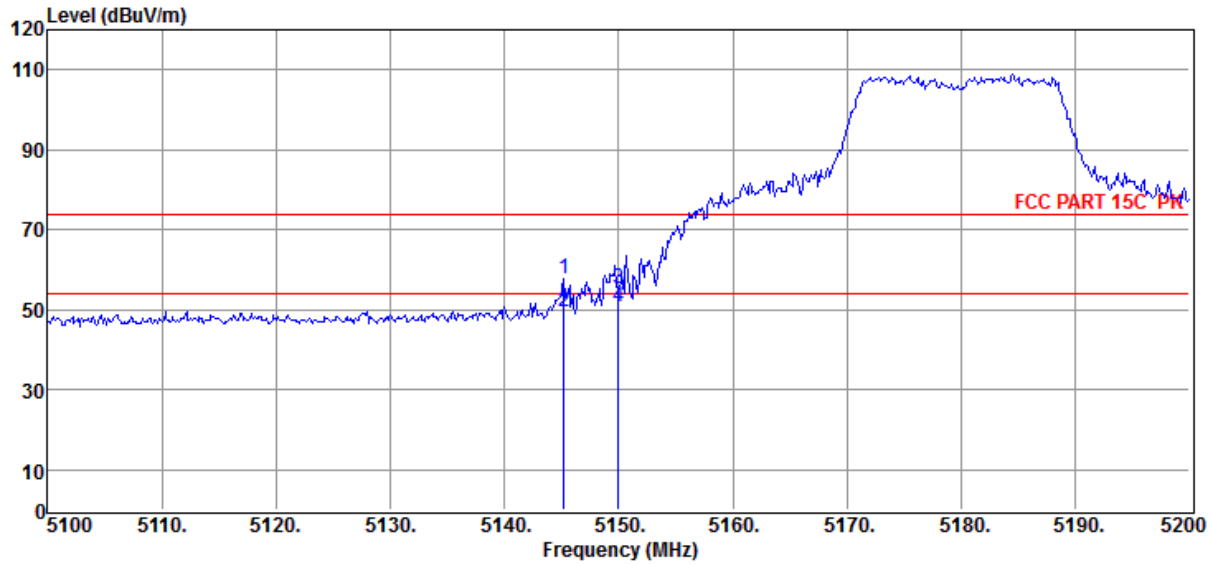


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5147.50	60.51	32.56	43.36	6.37	56.08	74.00	-17.92	Peak	VERTICAL
2	5147.50	54.26	32.56	43.36	6.37	49.83	54.00	-4.17	Average	VERTICAL
3	5150.00	56.54	32.56	43.36	6.38	52.12	74.00	-21.88	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11AC20 5180			

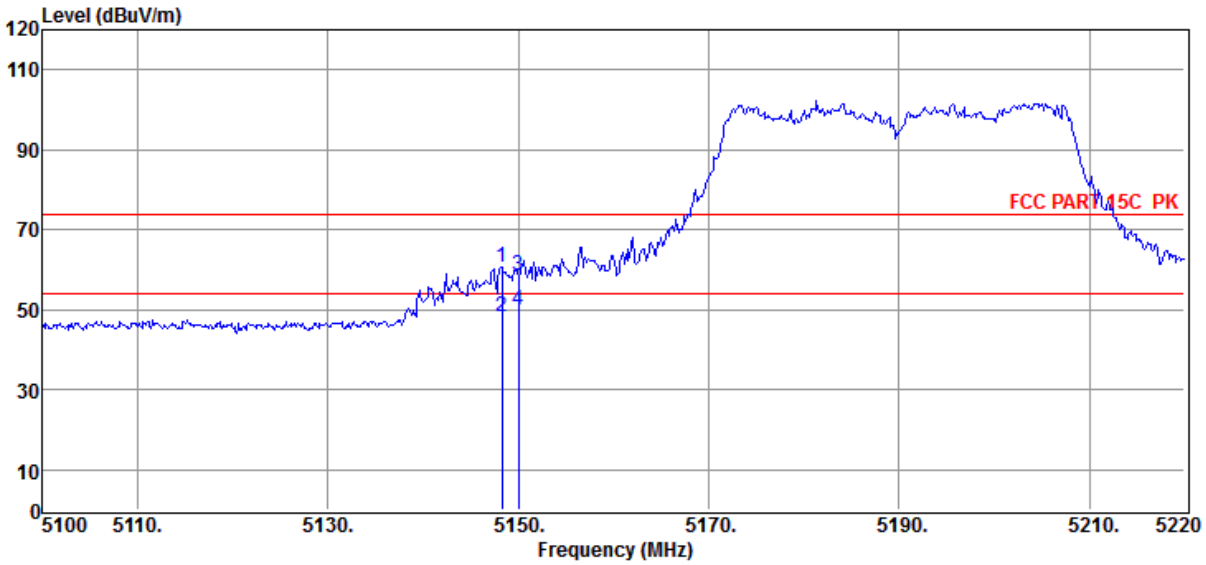


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5145.20	62.29	32.56	43.37	6.37	57.85	74.00	-16.15	Peak	HORIZONTAL
2	5145.20	54.10	32.56	43.37	6.37	49.66	54.00	-4.34	Average	HORIZONTAL
3	5150.00	59.66	32.56	43.36	6.38	55.24	74.00	-18.76	Peak	HORIZONTAL
4	5150.00	55.25	32.56	43.36	6.38	50.83	54.00	-3.17	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11AC40 5190			

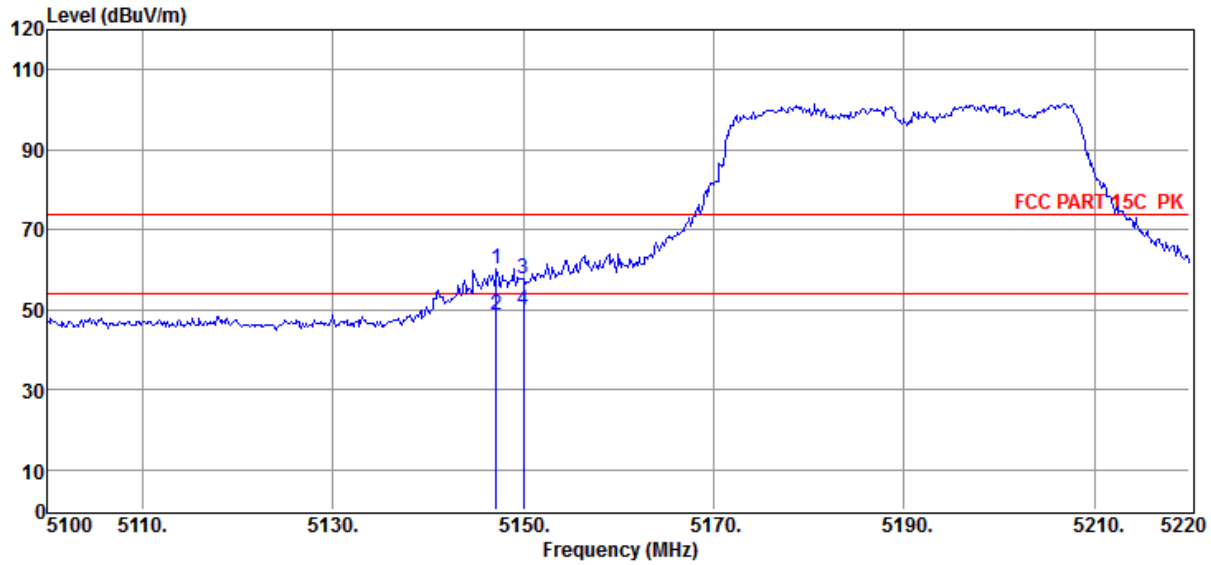


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5148.24	65.15	32.56	43.36	6.37	60.72	74.00	-13.28	Peak	VERTICAL
2	5148.24	52.60	32.56	43.36	6.37	48.17	54.00	-5.83	Average	VERTICAL
3	5150.04	62.96	32.56	43.36	6.38	58.54	74.00	-15.46	Peak	VERTICAL
4	5150.04	54.49	32.56	43.36	6.38	50.07	54.00	-3.93	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11AC40 5190			

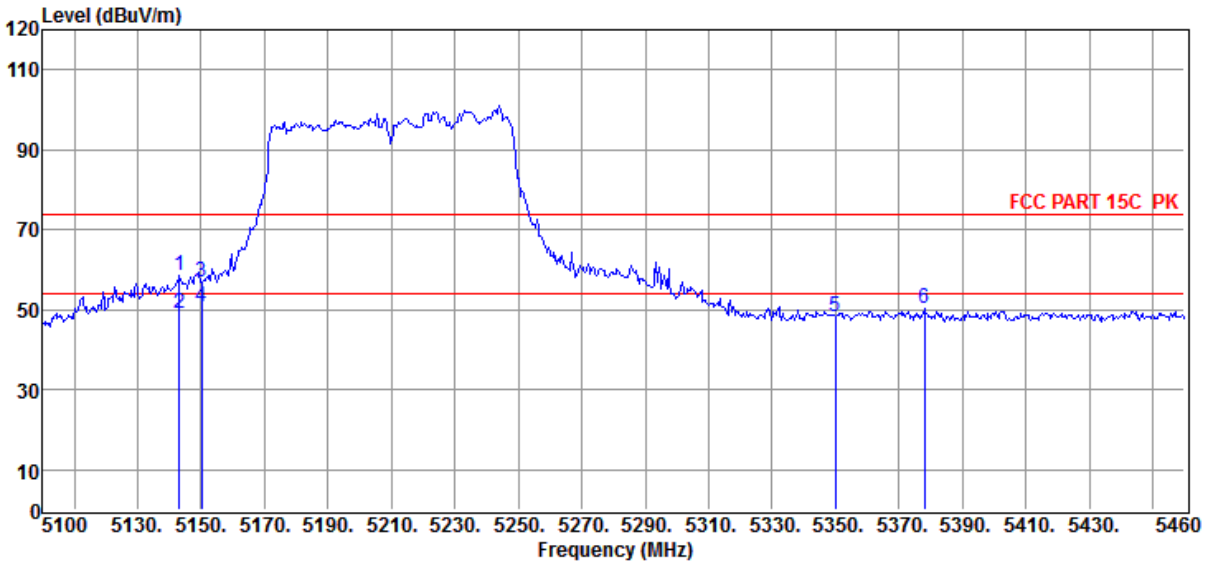


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5147.16	64.70	32.56	43.36	6.37	60.27	74.00	-13.73	Peak	HORIZONTAL
2	5147.16	53.17	32.56	43.36	6.37	48.74	54.00	-5.26	Average	HORIZONTAL
3	5150.04	62.33	32.56	43.36	6.38	57.91	74.00	-16.09	Peak	HORIZONTAL
4	5150.04	54.30	32.56	43.36	6.38	49.88	54.00	-4.12	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11AC80 5210			

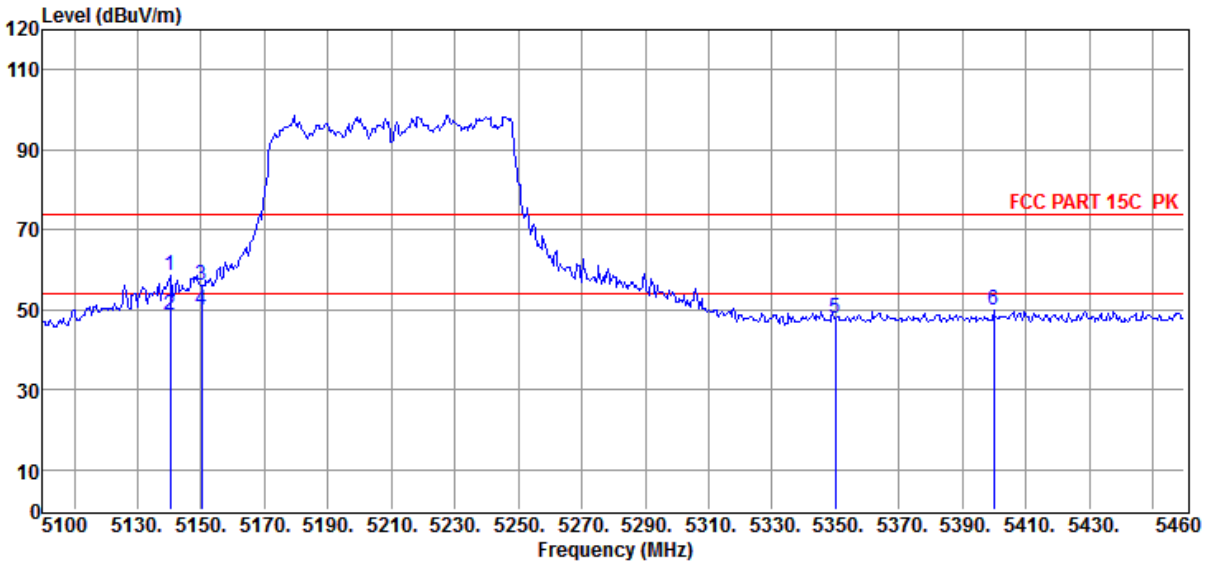


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5143.20	63.10	32.56	43.37	6.37	58.66	74.00	-15.34	Peak	HORIZONTAL
2	5143.20	53.62	32.56	43.37	6.37	49.18	54.00	-4.82	Average	HORIZONTAL
3	5150.04	61.32	32.56	43.36	6.38	56.90	74.00	-17.10	Peak	HORIZONTAL
4	5150.04	55.30	32.56	43.36	6.38	50.88	54.00	-3.12	Average	HORIZONTAL
5	5349.84	52.58	32.64	43.30	6.51	48.43	74.00	-25.57	Peak	HORIZONTAL
6	5377.92	54.23	32.65	43.29	6.53	50.12	74.00	-23.88	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11AC80 5210			

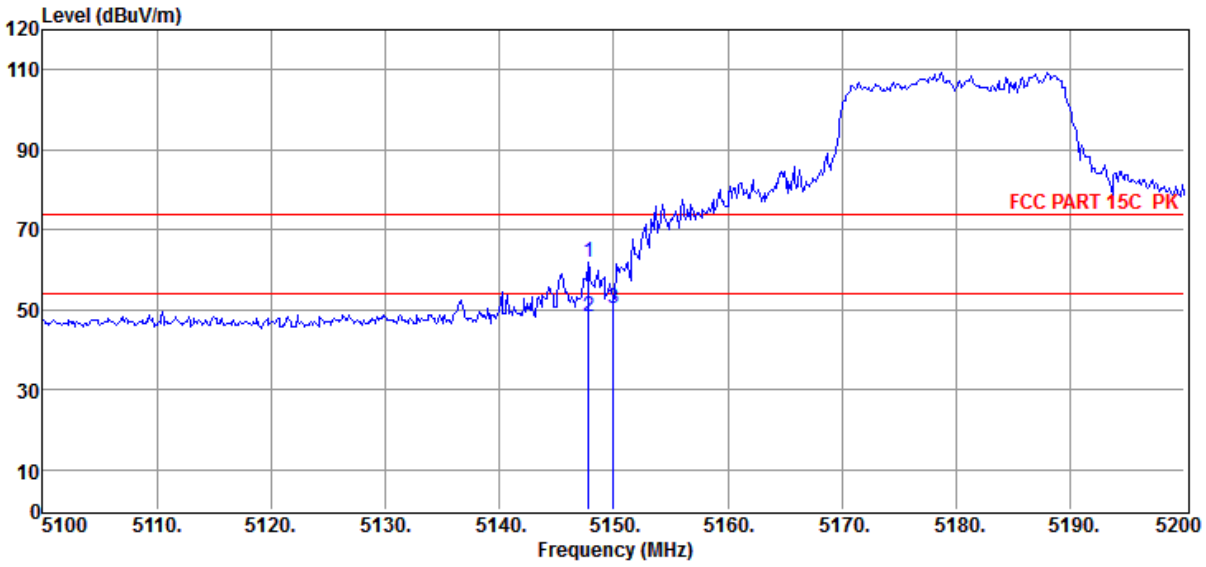


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5140.32	62.81	32.56	43.37	6.37	58.37	74.00	-15.63	Peak	VERTICAL
2	5140.32	53.11	32.56	43.37	6.37	48.67	54.00	-5.33	Average	VERTICAL
3	5150.04	60.67	32.56	43.36	6.38	56.25	74.00	-17.75	Peak	VERTICAL
4	5150.04	54.28	32.56	43.36	6.38	49.86	54.00	-4.14	Average	VERTICAL
5	5349.84	51.91	32.64	43.30	6.51	47.76	74.00	-26.24	Peak	VERTICAL
6	5399.88	53.77	32.66	43.28	6.55	49.70	74.00	-24.30	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11AX20 5180			

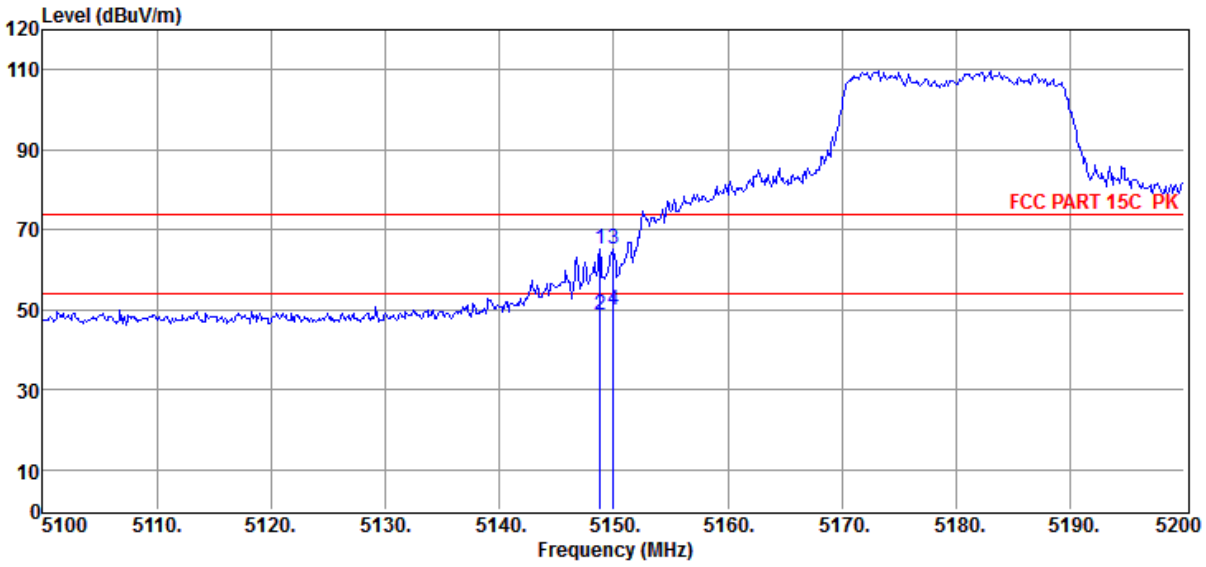


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5147.80	66.46	32.56	43.36	6.37	62.03	74.00	-11.97	Peak	VERTICAL
2	5147.80	52.50	32.56	43.36	6.37	48.07	54.00	-5.93	Average	VERTICAL
3	5150.00	54.84	32.56	43.36	6.38	50.42	74.00	-23.58	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11AX20 5180			

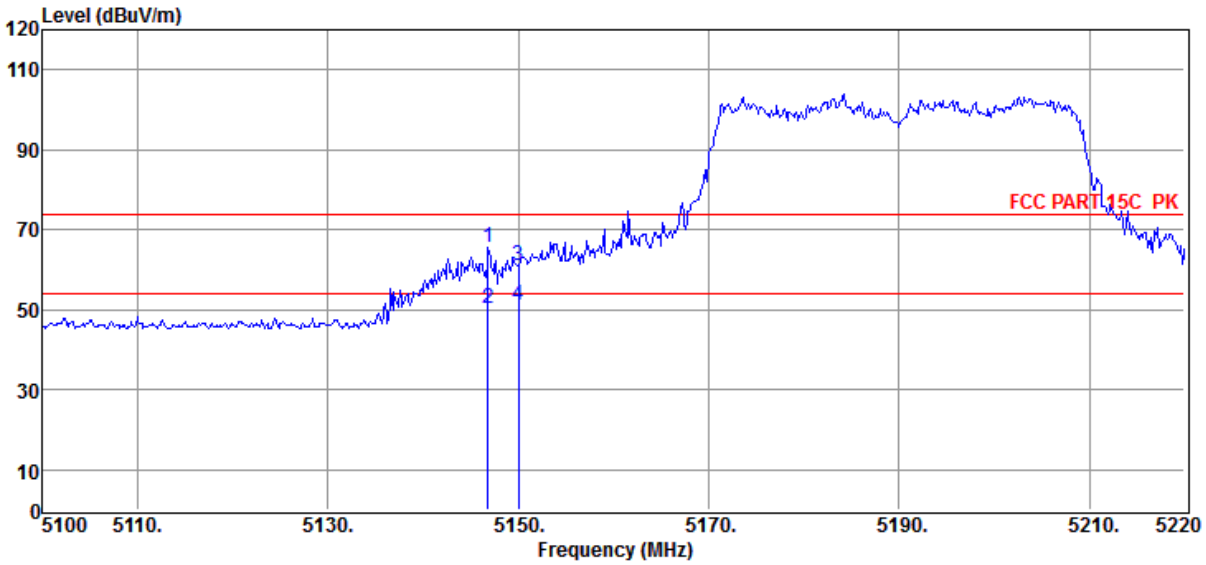


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5148.80	69.58	32.56	43.36	6.37	65.15	74.00	-8.85	Peak	HORIZONTAL
2	5148.80	53.20	32.56	43.36	6.37	48.77	54.00	-5.23	Average	HORIZONTAL
3	5150.00	69.64	32.56	43.36	6.38	65.22	74.00	-8.78	Peak	HORIZONTAL
4	5150.00	54.25	32.56	43.36	6.38	49.83	54.00	-4.17	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11AX40 5190			

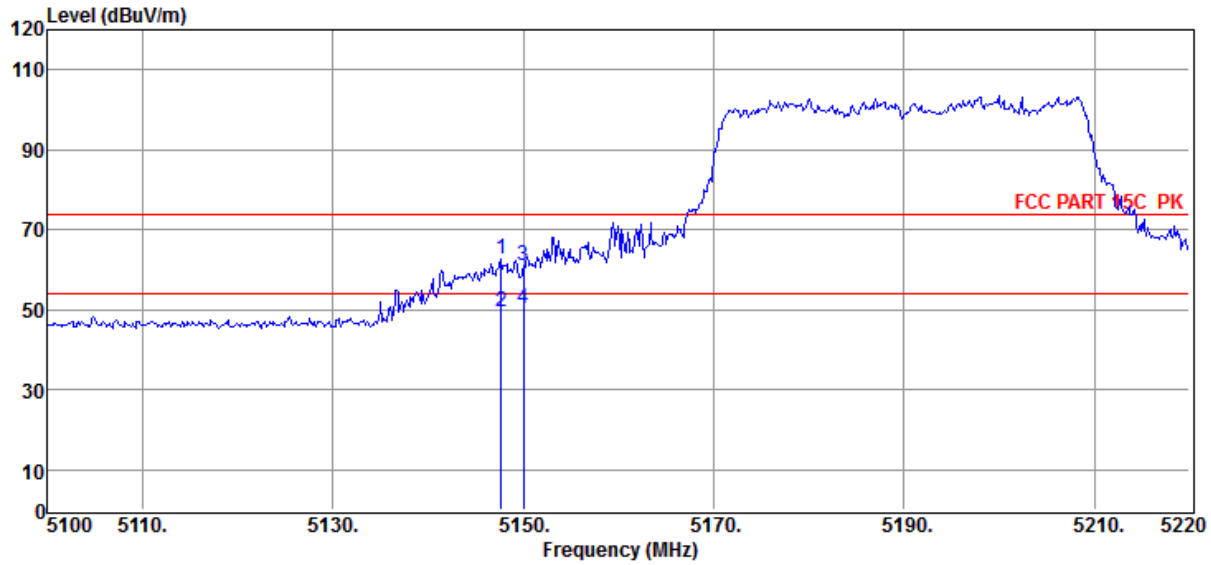


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5146.80	70.10	32.56	43.36	6.37	65.67	74.00	-8.33	Peak	VERTICAL
2	5146.80	54.80	32.56	43.36	6.37	50.37	54.00	-3.63	Average	VERTICAL
3	5150.04	65.51	32.56	43.36	6.38	61.09	74.00	-12.91	Peak	VERTICAL
4	5150.04	55.35	32.56	43.36	6.38	50.93	54.00	-3.07	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11AX40 5190			

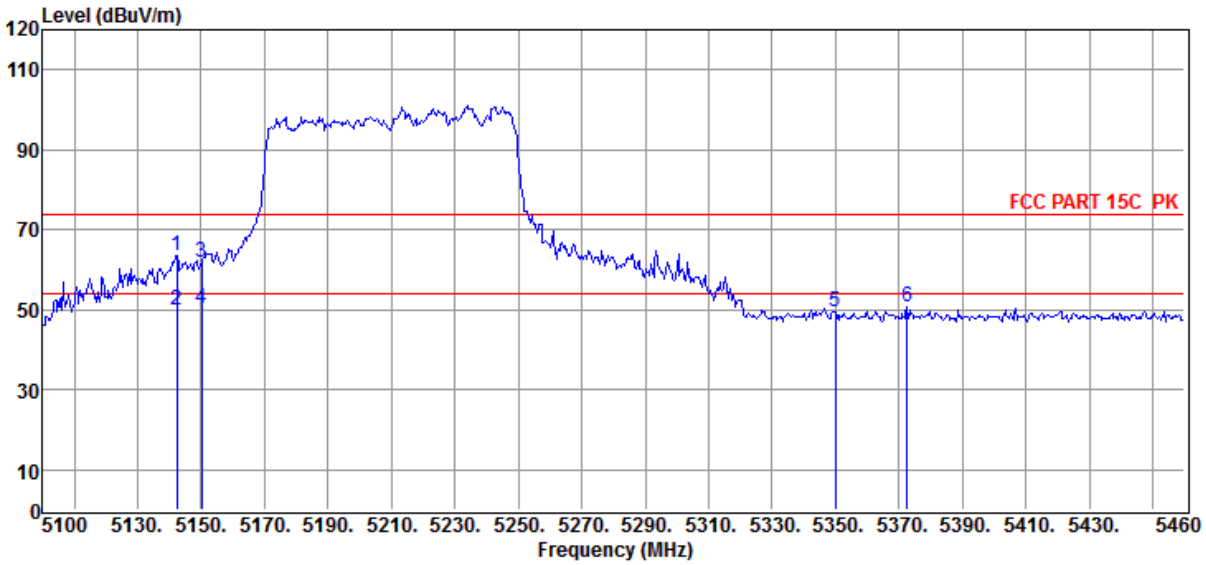


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5147.64	66.95	32.56	43.36	6.37	62.52	74.00	-11.48	Peak	HORIZONTAL
2	5147.64	54.00	32.56	43.36	6.37	49.57	54.00	-4.43	Average	HORIZONTAL
3	5150.04	65.64	32.56	43.36	6.38	61.22	74.00	-12.78	Peak	HORIZONTAL
4	5150.04	54.61	32.56	43.36	6.38	50.19	54.00	-3.81	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/HORIZONTAL
Memo	:	11AX80 5210			

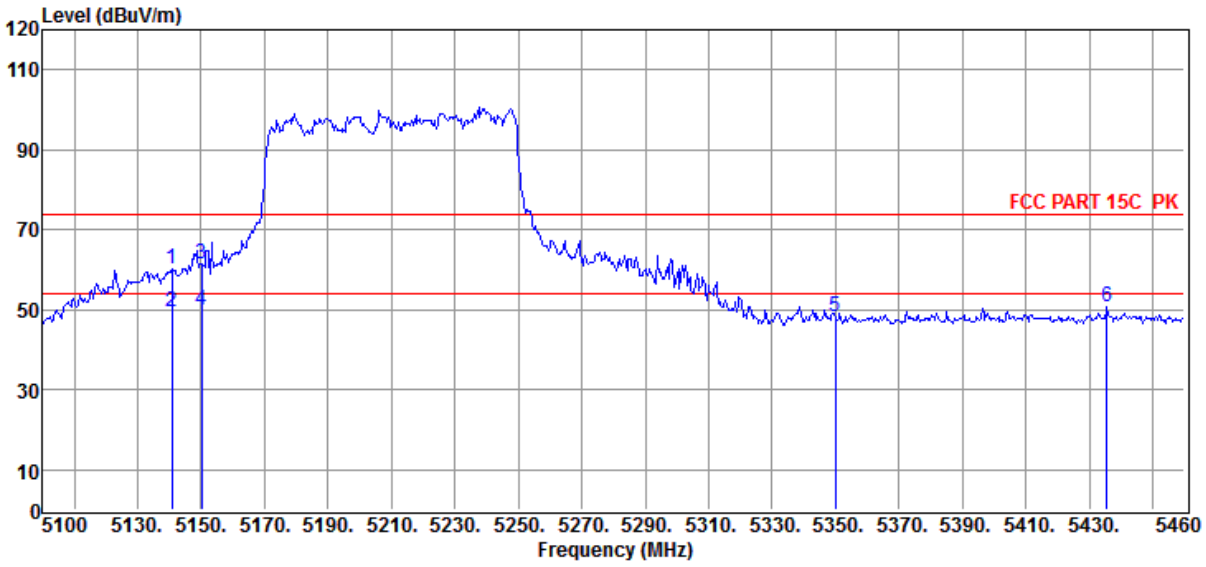


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5142.48	67.96	32.56	43.37	6.37	63.52	74.00	-10.48	Peak	HORIZONTAL
2	5142.48	54.20	32.56	43.37	6.37	49.76	54.00	-4.24	Average	HORIZONTAL
3	5150.04	66.30	32.56	43.36	6.38	61.88	74.00	-12.12	Peak	HORIZONTAL
4	5150.04	54.61	32.56	43.36	6.38	50.19	54.00	-3.81	Average	HORIZONTAL
5	5349.84	53.67	32.64	43.30	6.51	49.52	74.00	-24.48	Peak	HORIZONTAL
6	5372.52	54.63	32.65	43.29	6.53	50.52	74.00	-23.48	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

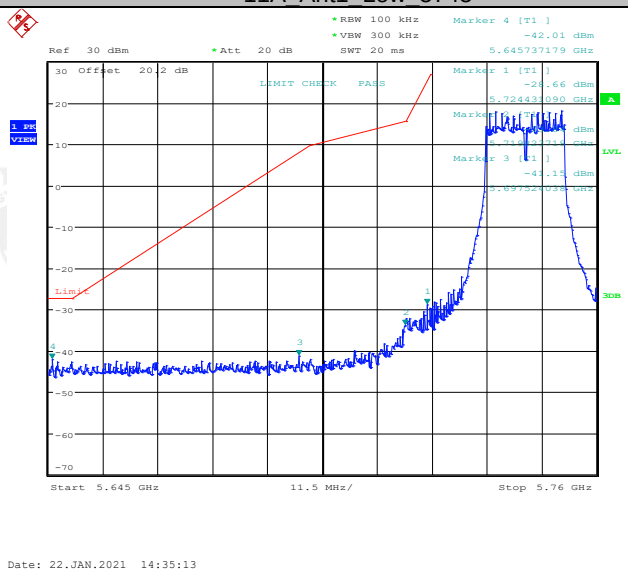
Test Site	:	DDT 3m Chamber 2#	D:\2020 RE2# Report Data\Q20110315-1E M6\FCC ABOVE 1G.EM6		
Test Date	:	2020-12-24	**Tested By**	:	Kennys
EUT	:	M6 Mesh Wi-Fi Router	**Model Number**	:	M6
Power Supply	:	DC 110V 60Hz	**Test Mode**	:	Tx mode
Condition	:	Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	:	2019 BBHA9120D/3m/VERTICAL
Memo	:	11AX80 5210			



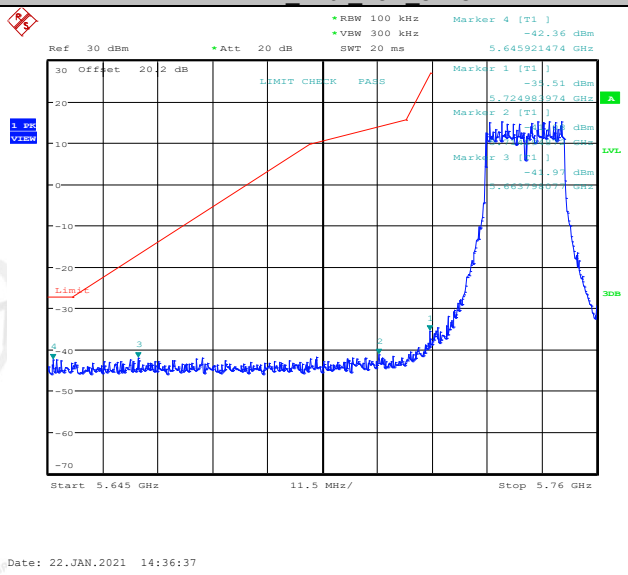
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5140.68	64.64	32.56	43.37	6.37	60.20	74.00	-13.80	Peak	VERTICAL
2	5140.68	53.88	32.56	43.37	6.37	49.44	54.00	-4.56	Average	VERTICAL
3	5150.04	65.66	32.56	43.36	6.38	61.24	74.00	-12.76	Peak	VERTICAL
4	5150.04	54.22	32.56	43.36	6.38	49.80	54.00	-4.20	Average	VERTICAL
5	5349.84	52.33	32.64	43.30	6.51	48.18	74.00	-25.82	Peak	VERTICAL
6	5435.52	54.80	32.67	43.27	6.57	50.77	74.00	-23.23	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

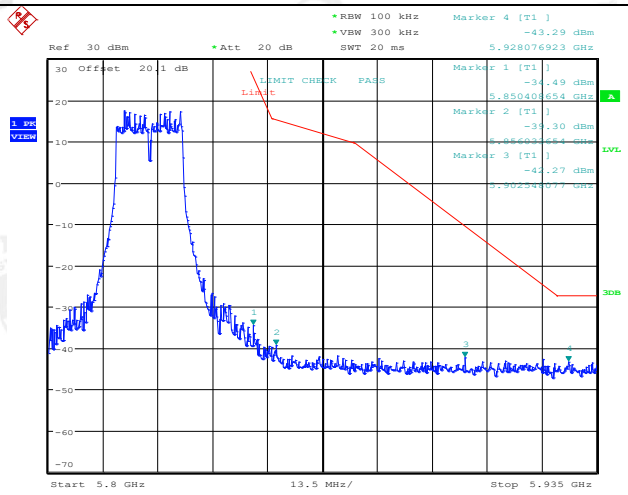
11A_Ant1_Low_5745



11A_Ant2_Low_5745



11A_Ant1_High_5825



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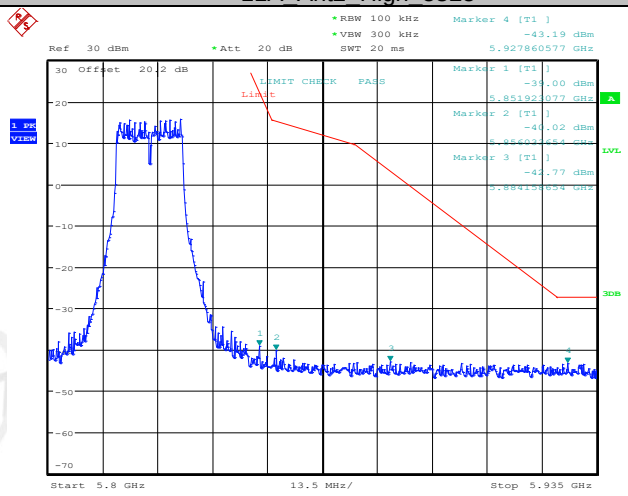
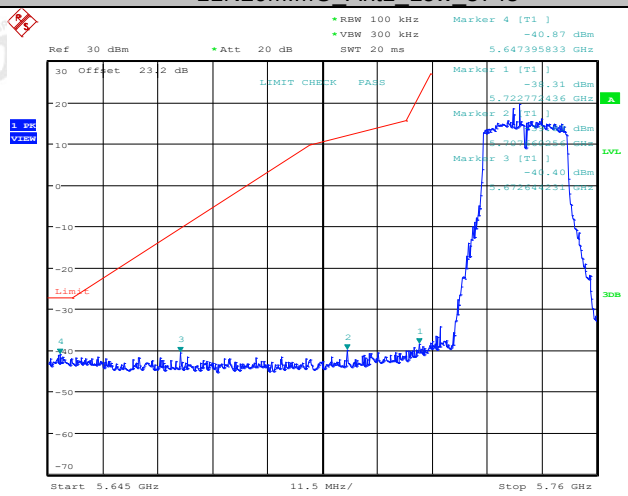
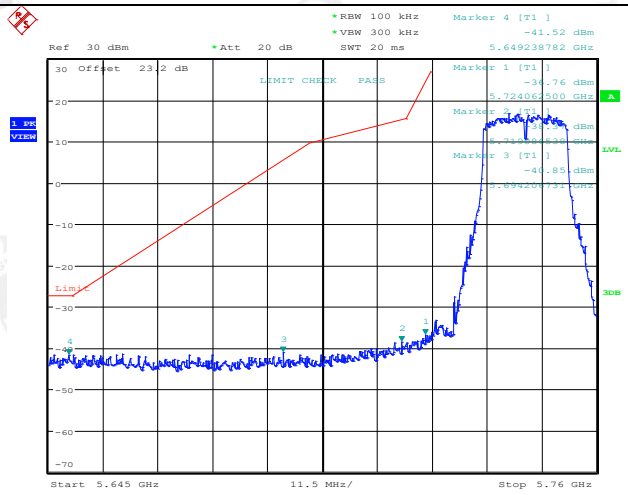


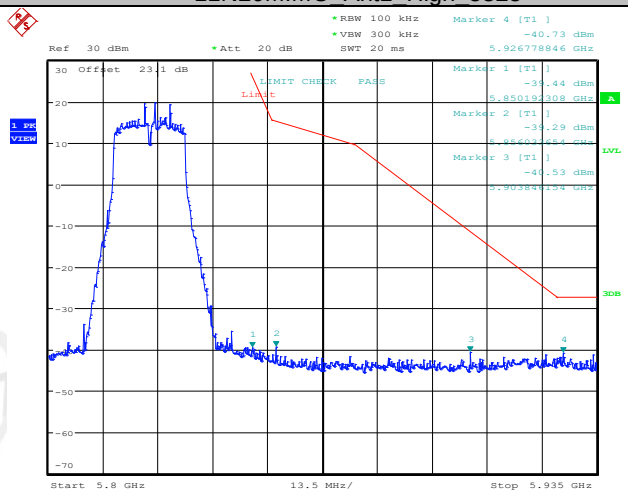
11N20MIMO_Ant1_Low_5745



11N20MIMO_Ant2_Low_5745



11N20MIMO_Ant1_High_5825



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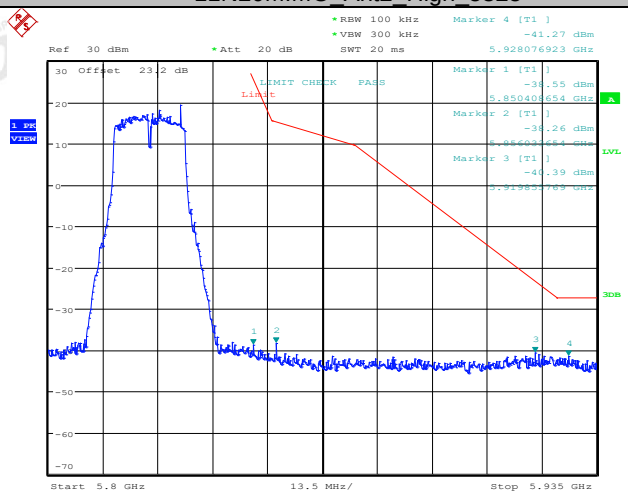

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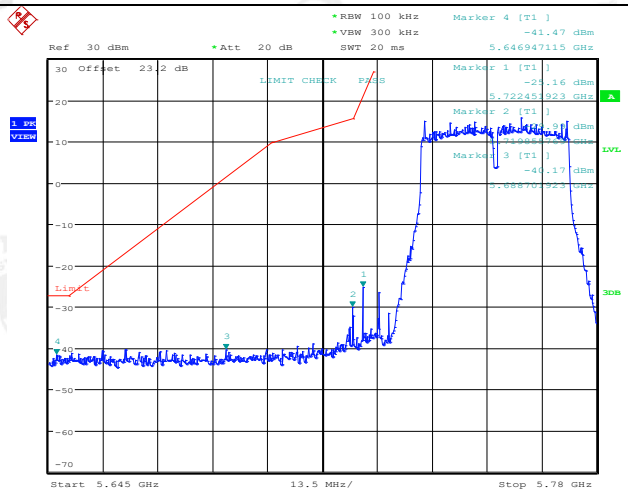

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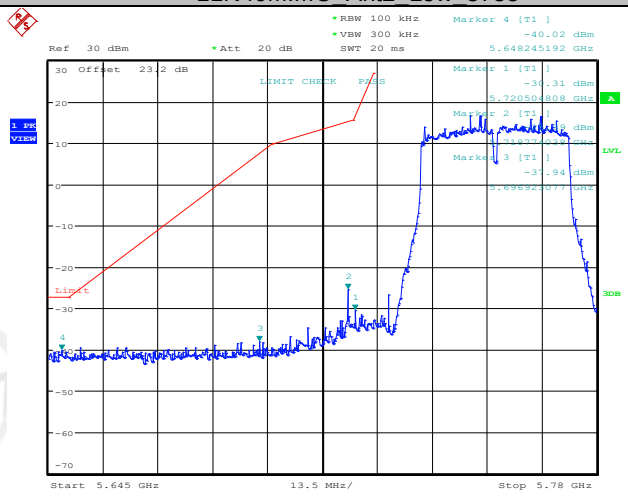

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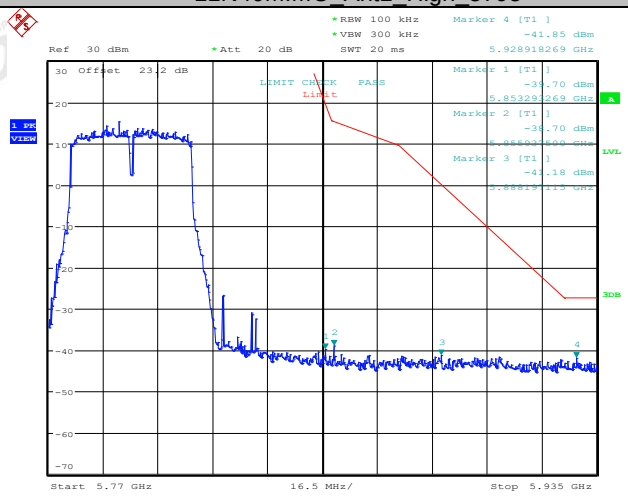

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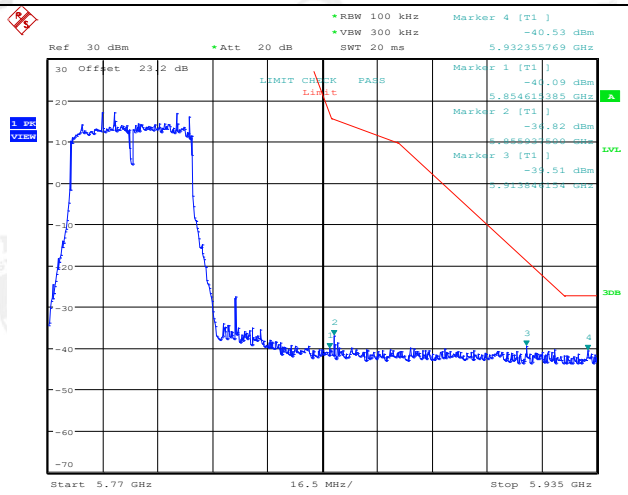

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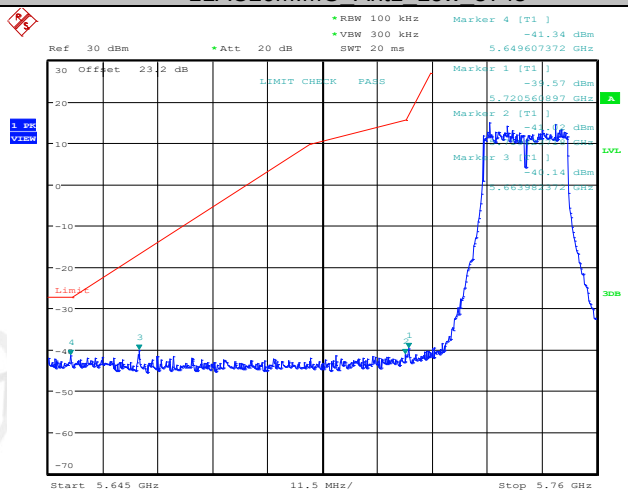

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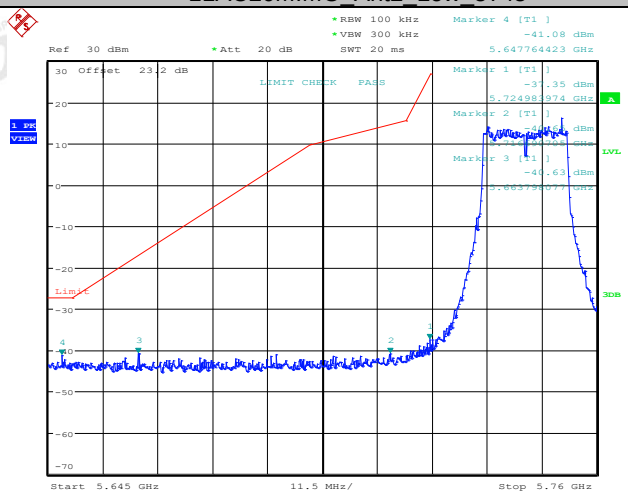

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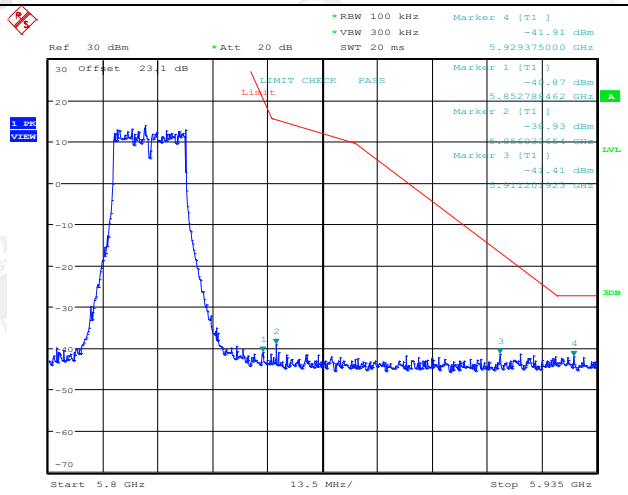

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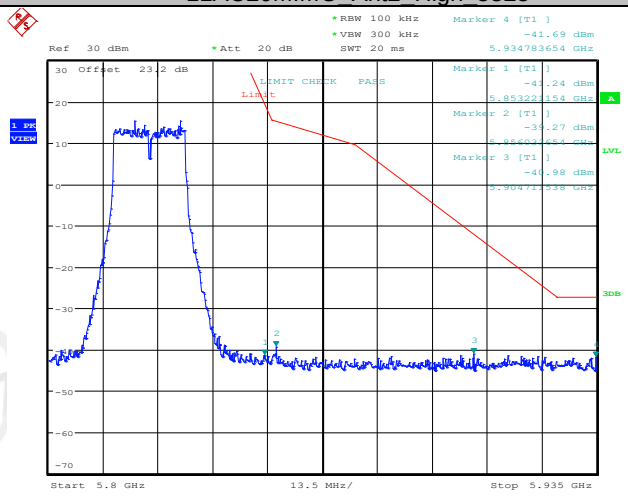

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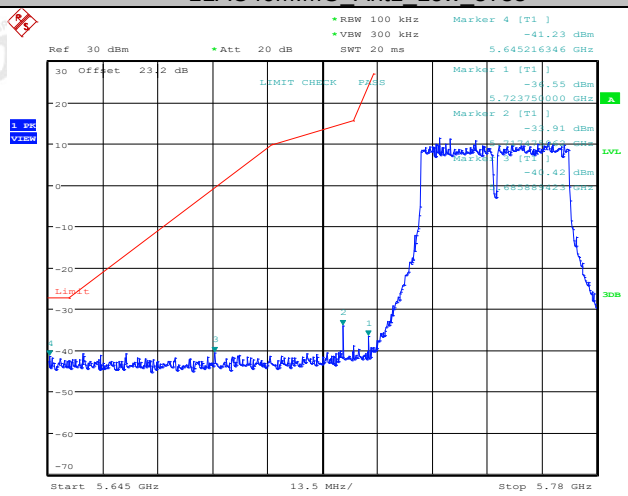

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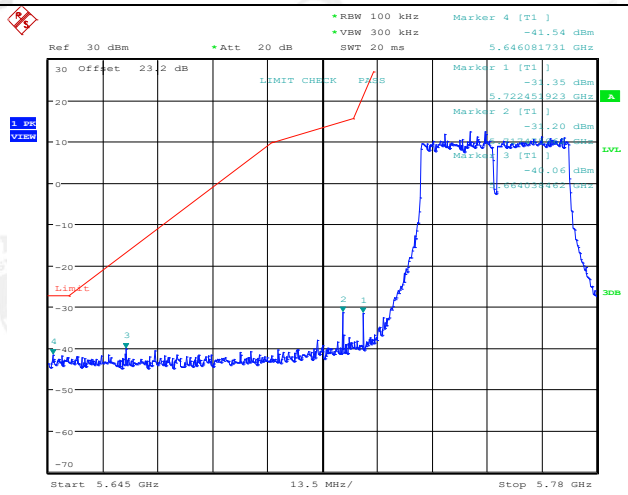

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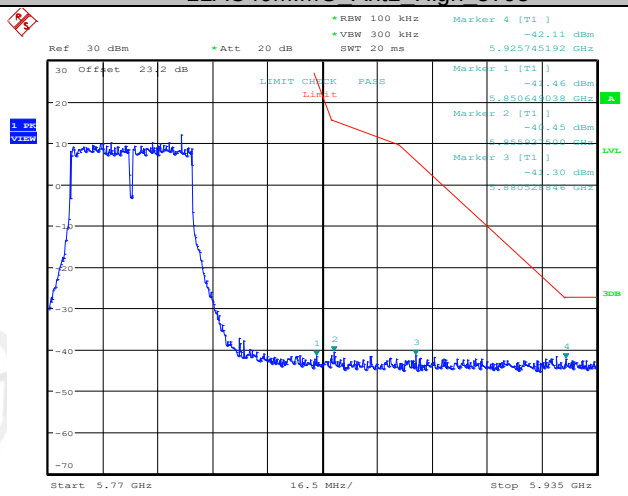

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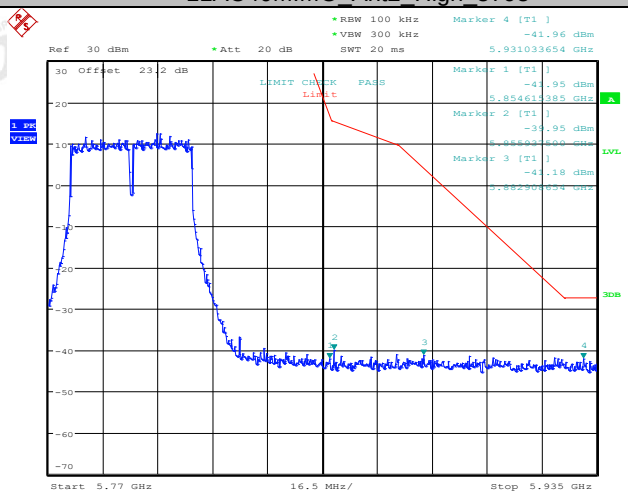

Date: 2.FEB.2021 16:16:04

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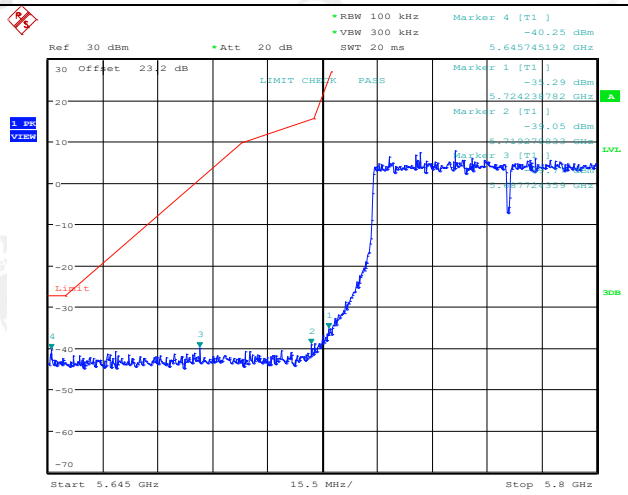

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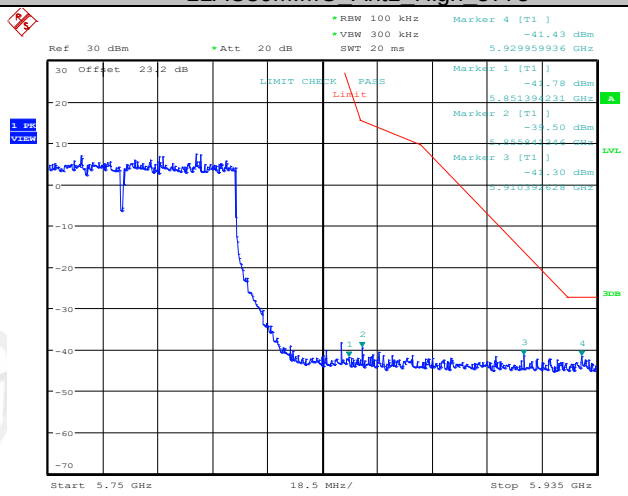

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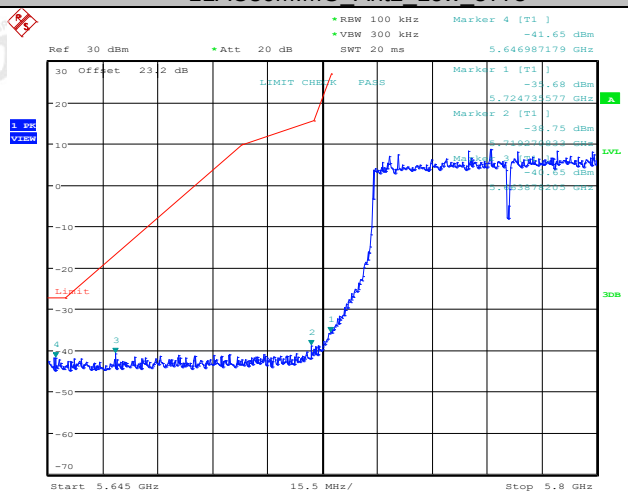

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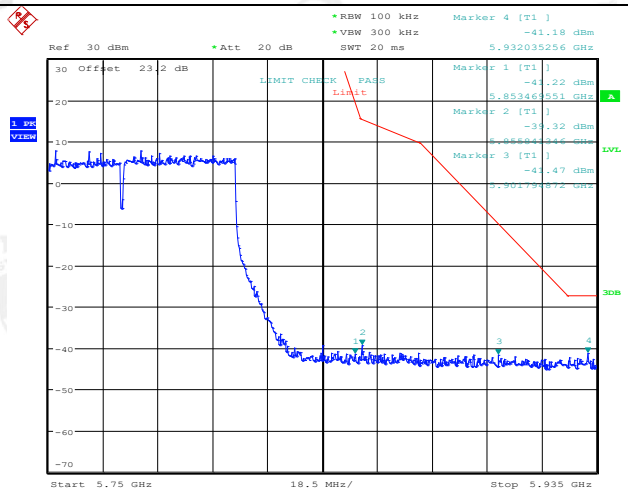

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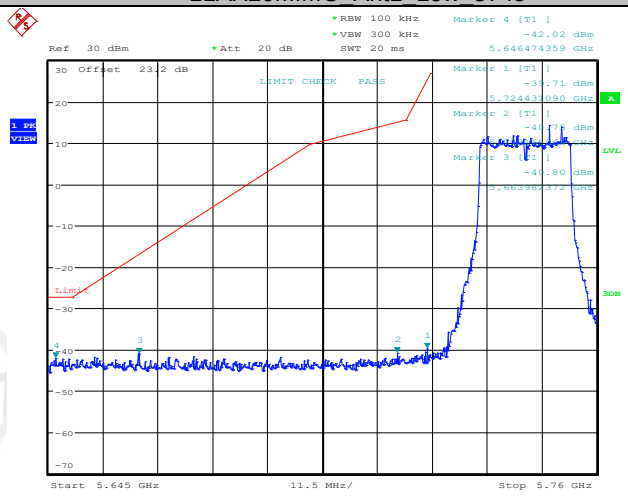

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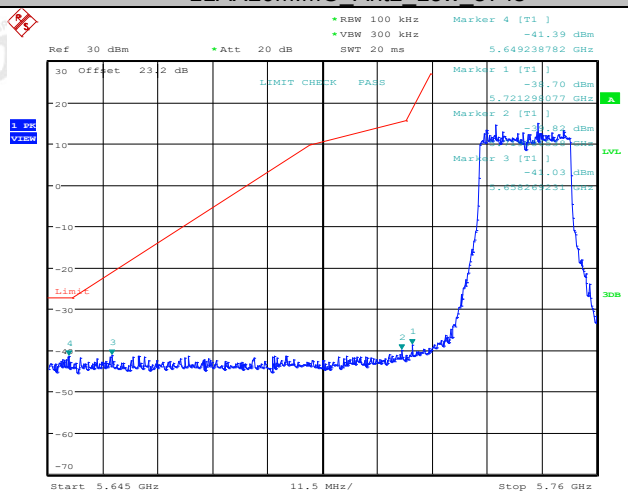

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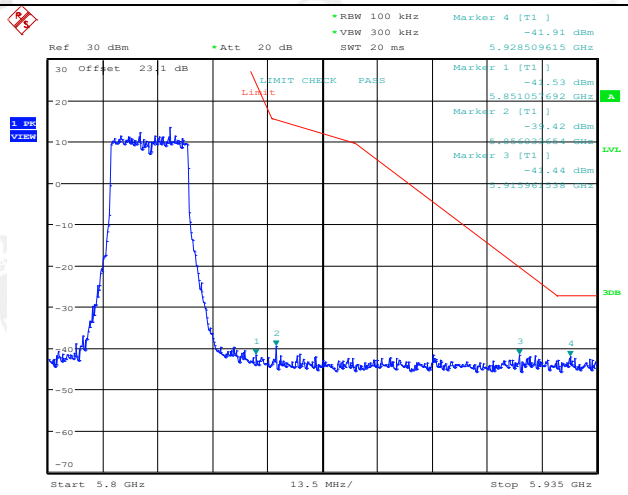

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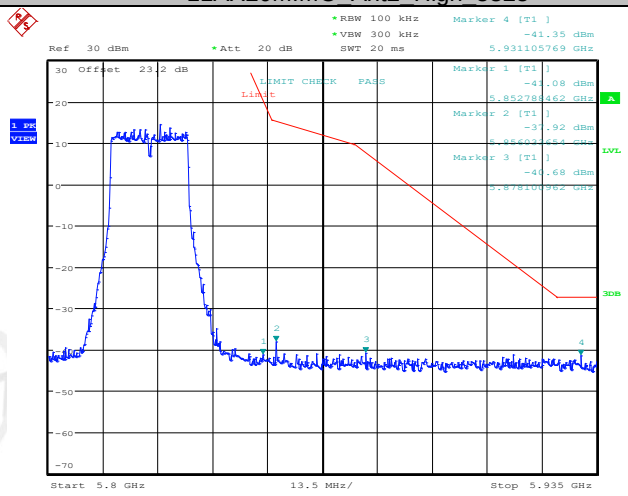

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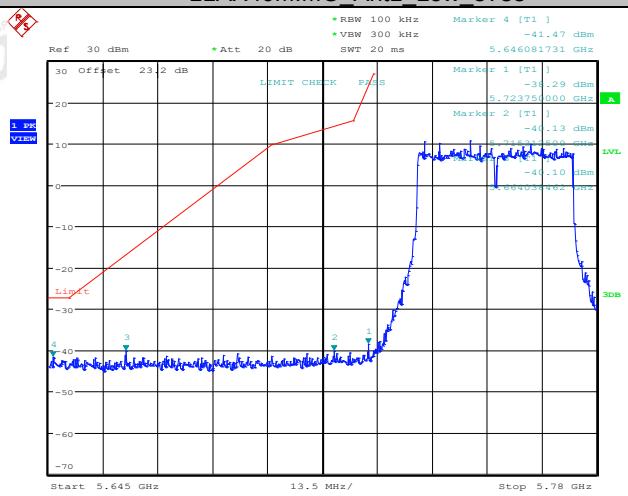

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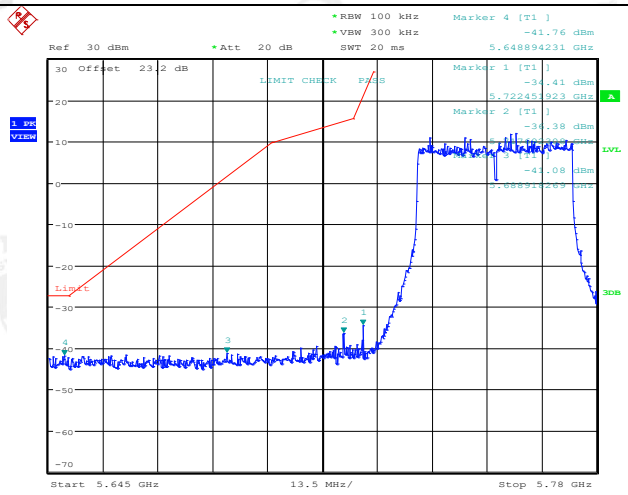

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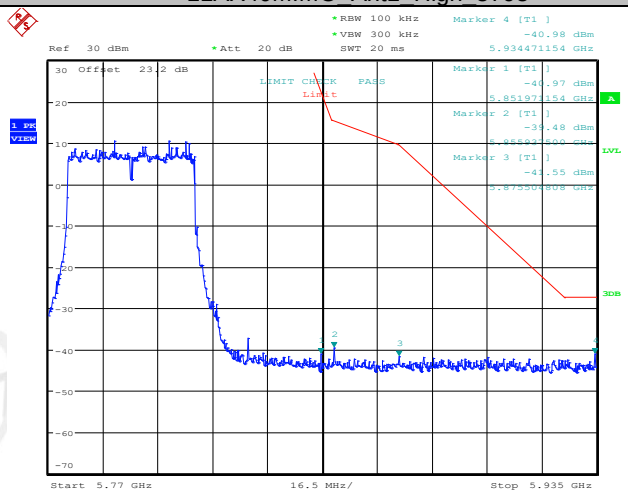

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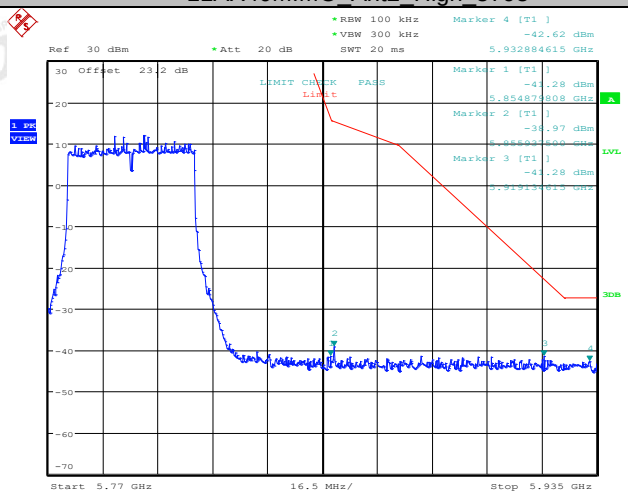

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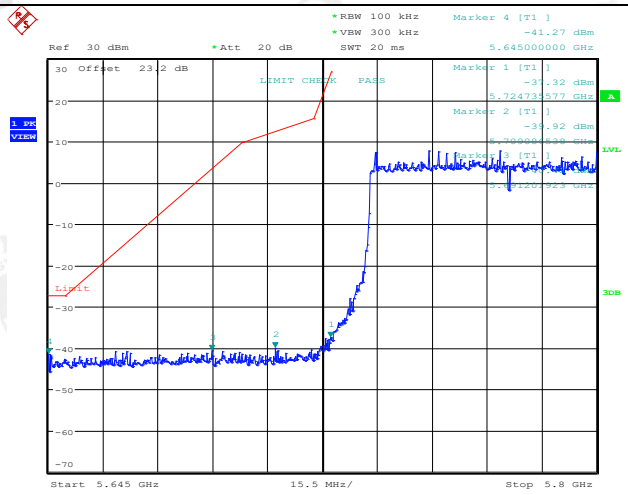

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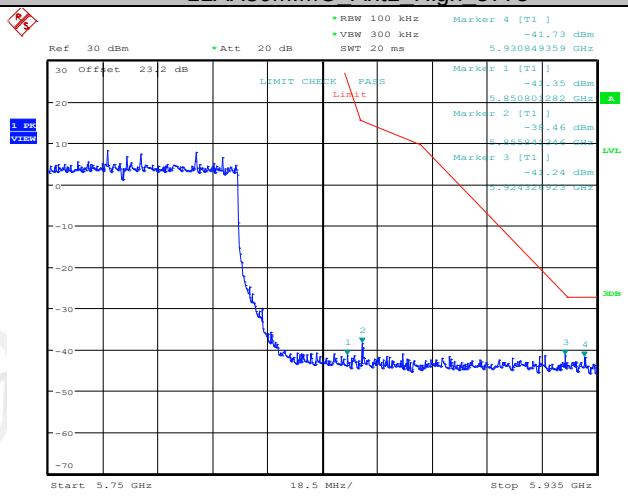

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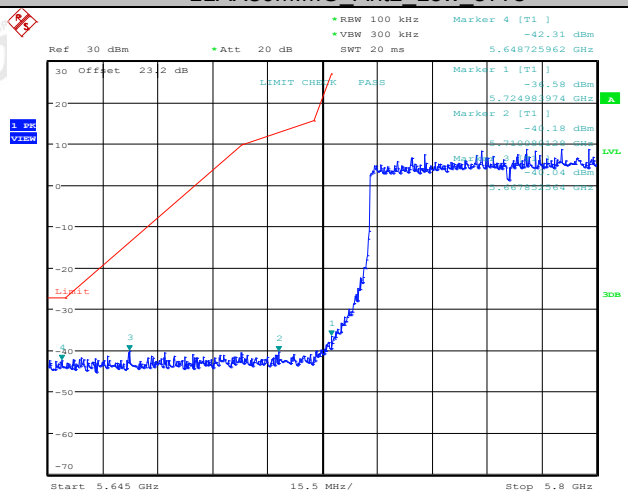

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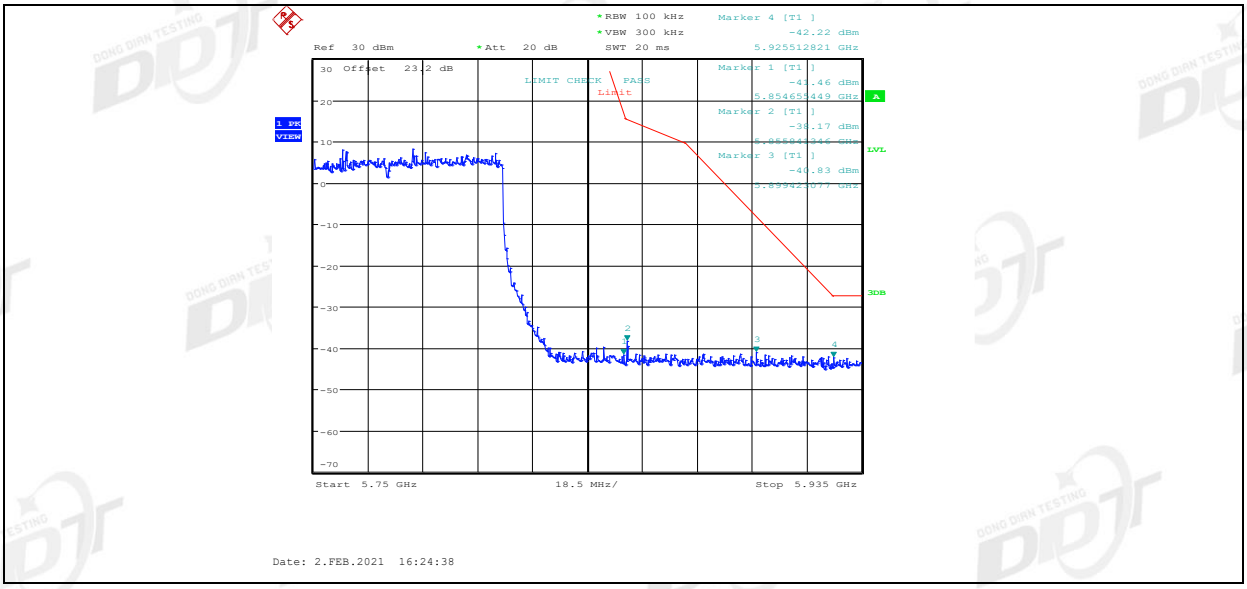
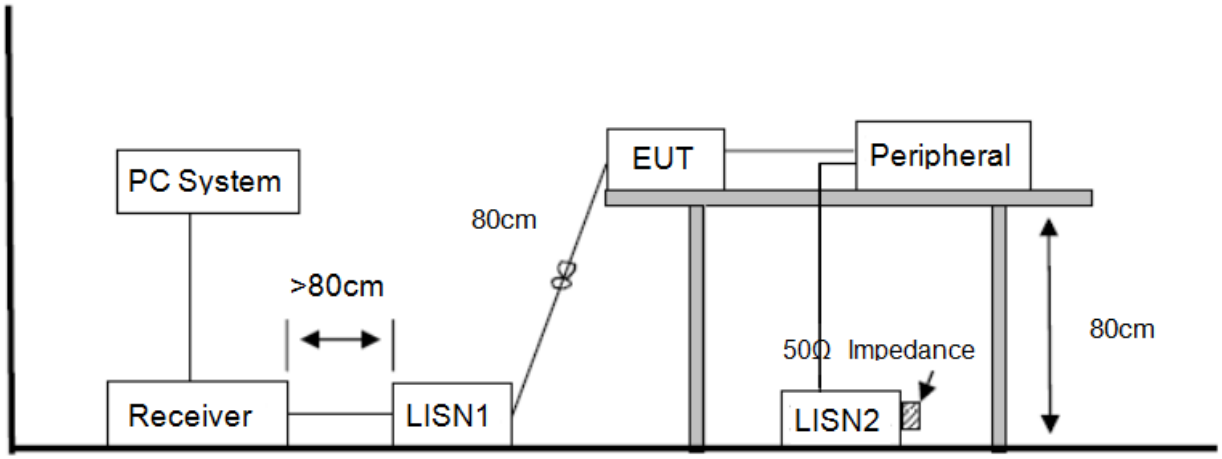

RBW 100 kHz
VBW 300 kHz
SWT 20 ms
Marker 4 [T1]
-42.22 dBm
5.925512821 GHz
Ref 30 dBm
Att 20 dB
30 Offset 23.2 dB
LIMIT CHECK PASS
Limit
Marker 1 [T1]
-42.46 dBm
5.854653449 GHz
Marker 2 [T1]
-36.17 dBm
Marker 3 [T1]
-40.83 dBm
1 PK VIEW
A
LVL
3DB
Start 5.75 GHz
18.5 MHz/
Stop 5.935 GHz
Date: 2.FEB.2021 16:24:38

10. Power Line Conducted Emission

10.1. Block diagram of test setup



10.2. Power Line Conducted Emission Limits (Class B)

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.
EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

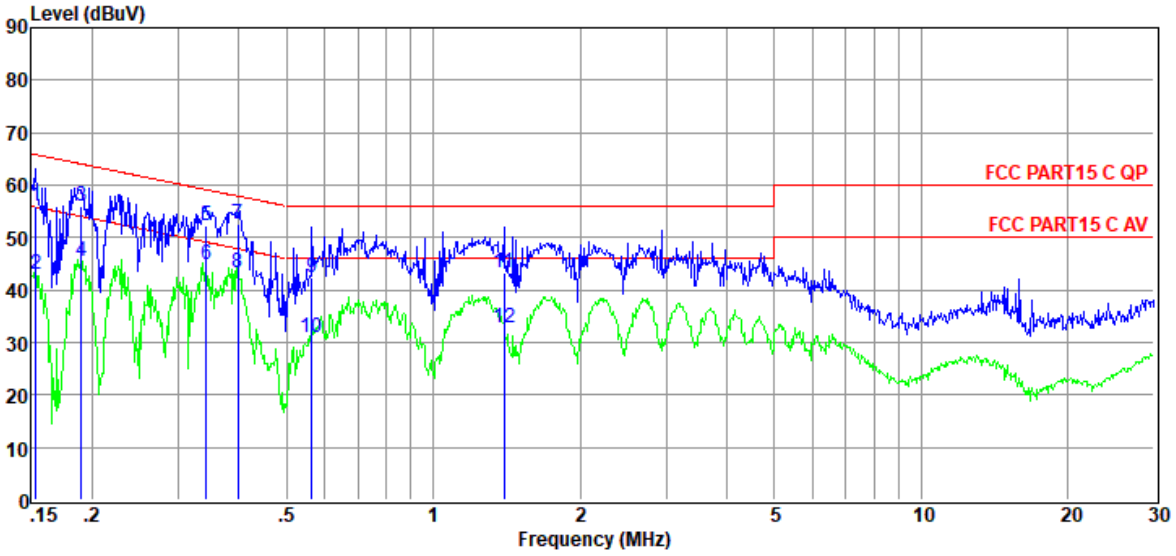
10.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.
Note2: "-----" means peak detection; "-----" means average detection
Note3: Pre-test AC conducted emission at both voltage AC 110V/60Hz and AC 240V/50Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2020 CE report data\Q20110315-1E\1214 CE.EM6	
Test Date	: 2020-12-14	**Tested By**	: Junchang Du
EUT	: M6 Mesh Wi-Fi Router	**Model Number**	: M6
Power Supply	: AC 110V/60Hz	**Test Mode**	: Tx mode
Condition	: TEMP:24.8℃, RH:54.5%, BP:101.4kPa	**LISN**	: 2020 ENV 216 1#/LINE
Memo	:		



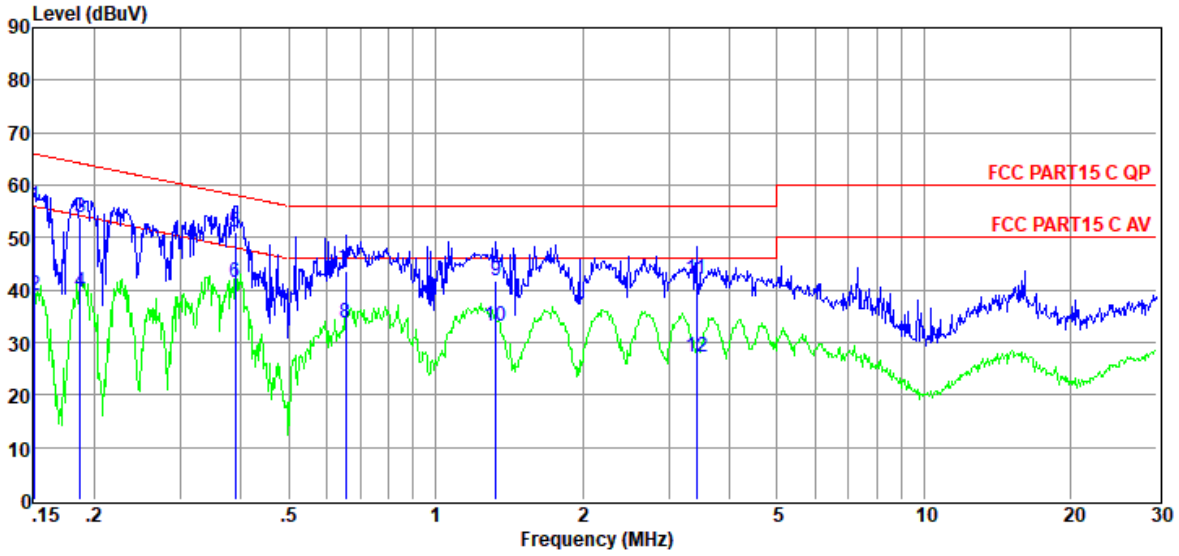
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.15	36.59	9.39	0.02	9.86	55.86	65.82	-9.96	QP	LINE
2	0.15	23.78	9.39	0.02	9.86	43.05	55.82	-12.77	Average	LINE
3	0.19	36.81	9.40	0.02	9.86	56.09	64.02	-7.93	QP	LINE
4	0.19	26.20	9.40	0.02	9.86	45.48	54.02	-8.54	Average	LINE
5	0.34	32.92	9.41	0.02	9.86	52.21	59.13	-6.92	QP	LINE
6	0.34	25.54	9.41	0.02	9.86	44.83	49.13	-4.30	Average	LINE
7	0.40	33.24	9.41	0.02	9.86	52.53	57.90	-5.37	QP	LINE
8	0.40	23.90	9.41	0.02	9.86	43.19	47.90	-4.71	Average	LINE
9	0.56	23.21	9.41	0.02	9.86	42.50	56.00	-13.50	QP	LINE
10	0.56	11.49	9.41	0.02	9.86	30.78	46.00	-15.22	Average	LINE
11	1.40	24.07	9.42	0.04	9.86	43.39	56.00	-12.61	QP	LINE
12	1.40	13.34	9.42	0.04	9.86	32.66	46.00	-13.34	Average	LINE

Note:

1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2020 CE report data\Q20110315-1E\1214 CE.EM6	
Test Date	: 2020-12-14	**Tested By**	: Junchang Du
EUT	: M6 Mesh Wi-Fi Router	**Model Number**	: M6
Power Supply	: AC 110V/60Hz	**Test Mode**	: Tx mode
Condition	: TEMP:24.8℃, RH:54.5%, BP:101.4kPa	**LISN**	: 2020 ENV 216 1#/NEUTRAL
Memo	:		



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.15	36.67	9.38	0.02	9.86	55.93	65.96	-10.03	QP	NEUTRAL
2	0.15	19.59	9.38	0.02	9.86	38.85	55.96	-17.11	Average	NEUTRAL
3	0.19	34.58	9.37	0.02	9.86	53.83	64.15	-10.32	QP	NEUTRAL
4	0.19	20.32	9.37	0.02	9.86	39.57	54.15	-14.58	Average	NEUTRAL
5	0.39	31.65	9.39	0.02	9.86	50.92	58.08	-7.16	QP	NEUTRAL
6	0.39	22.30	9.39	0.02	9.86	41.57	48.08	-6.51	Average	NEUTRAL
7	0.65	24.48	9.39	0.03	9.86	43.76	56.00	-12.24	QP	NEUTRAL
8	0.65	14.49	9.39	0.03	9.86	33.77	46.00	-12.23	Average	NEUTRAL
9	1.33	22.37	9.39	0.04	9.86	41.66	56.00	-14.34	QP	NEUTRAL
10	1.33	13.86	9.39	0.04	9.86	33.15	46.00	-12.85	Average	NEUTRAL
11	3.42	22.82	9.42	0.07	9.87	42.18	56.00	-13.82	QP	NEUTRAL
12	3.42	7.87	9.42	0.07	9.87	27.23	46.00	-18.77	Average	NEUTRAL

Note:

1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The device support 2T2R MIMO, the antennas both used for this product are dedicated antennas and other than that furnished by the responsible party shall be used with the device, maximum antenna gain is 4 dBi for antenna 1, 4 dBi for antenna 2.

END OF REPORT