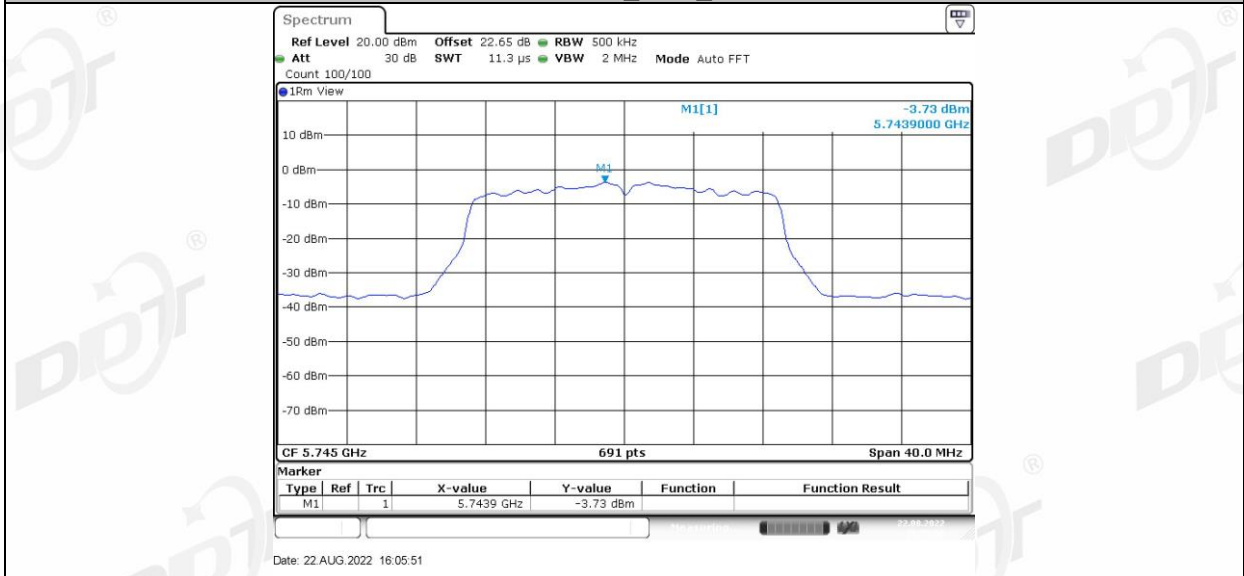
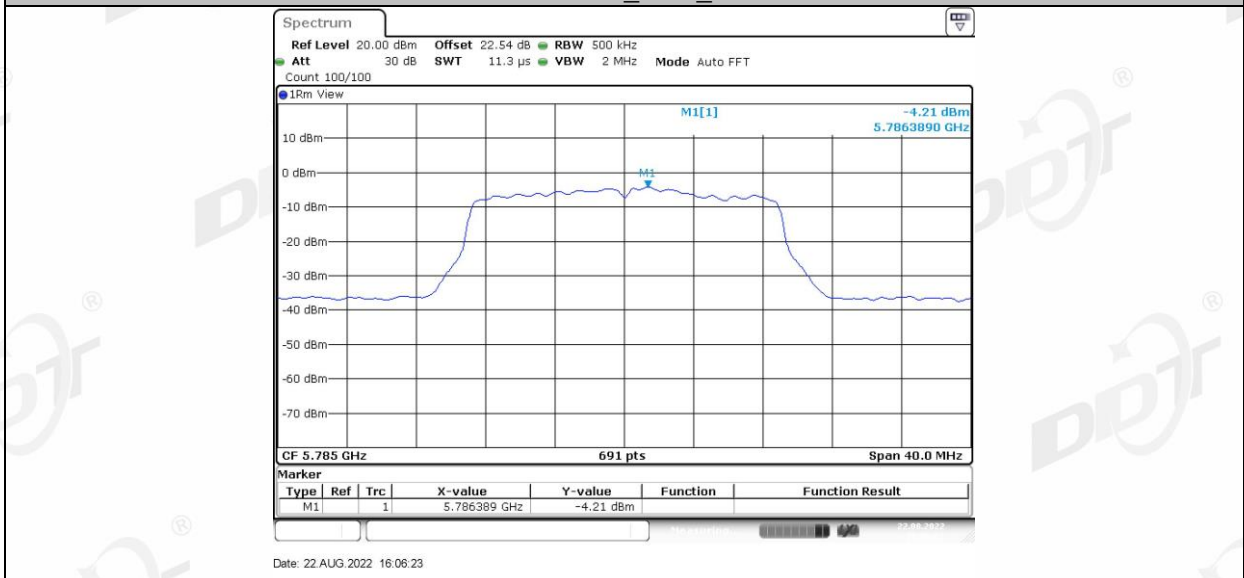




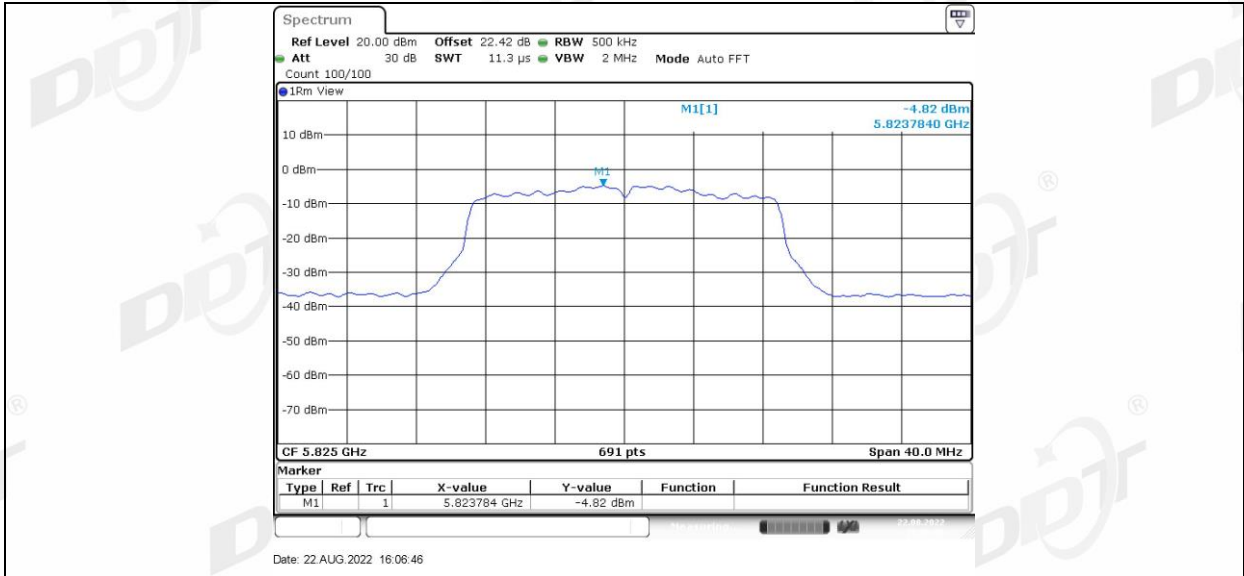
11N20SISO\_Ant1\_5745



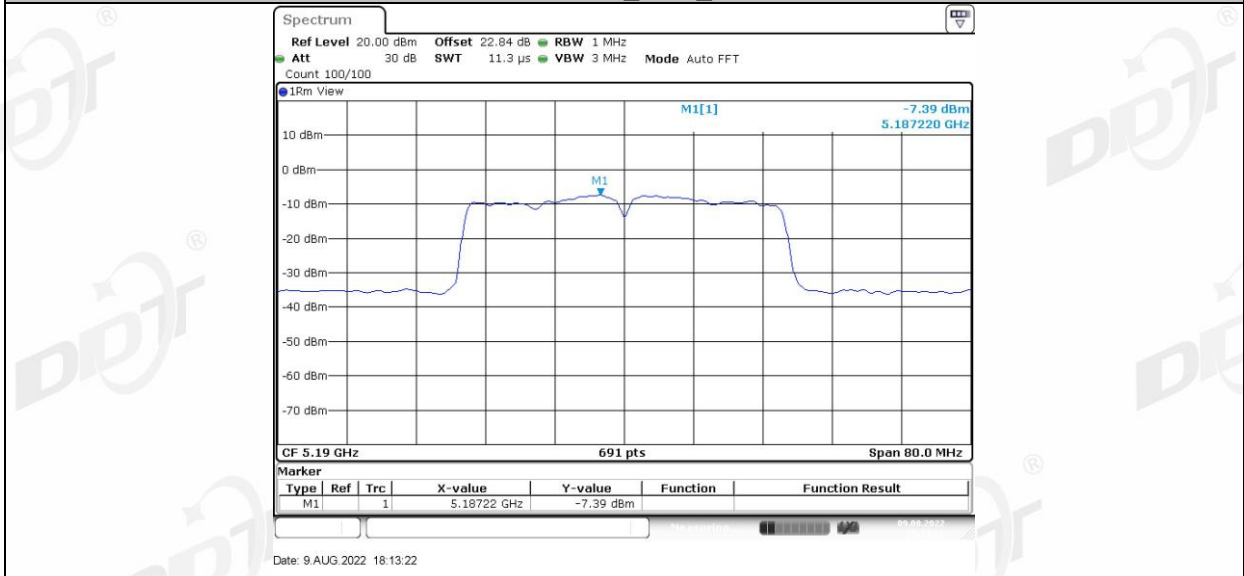
11N20SISO\_Ant1\_5785



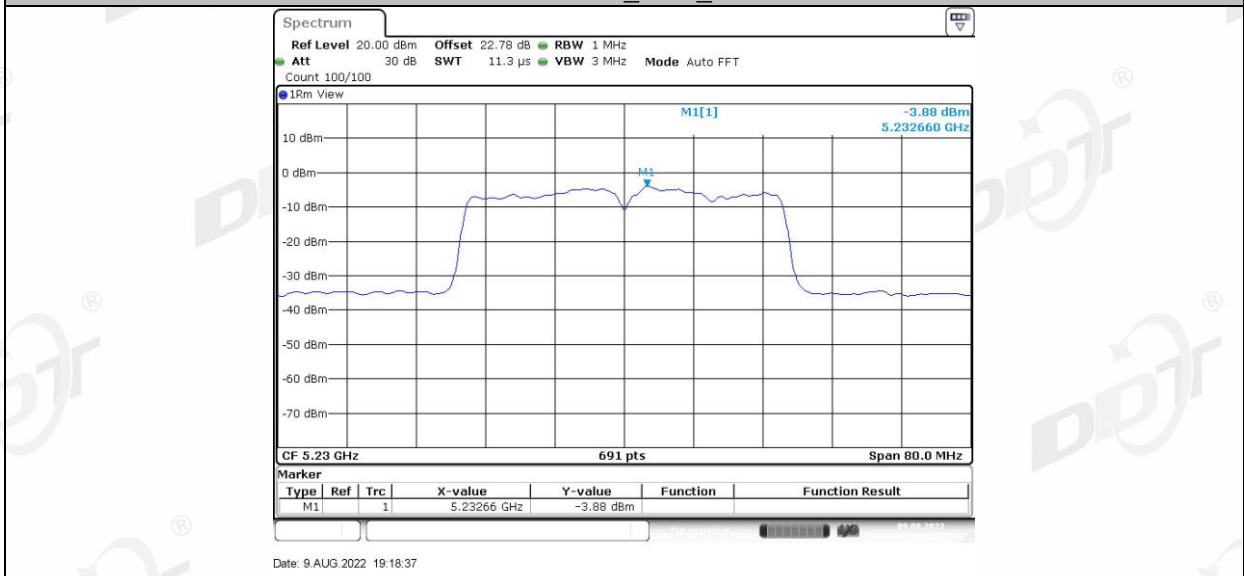
11N20SISO\_Ant1\_5825



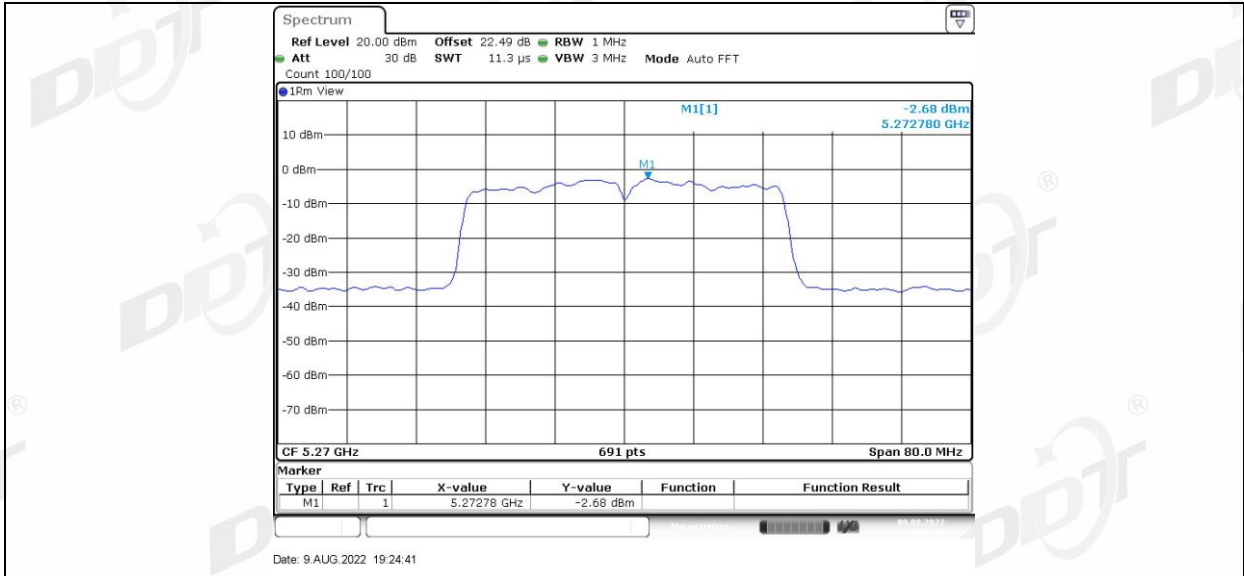
11N40SISO\_Ant1\_5190



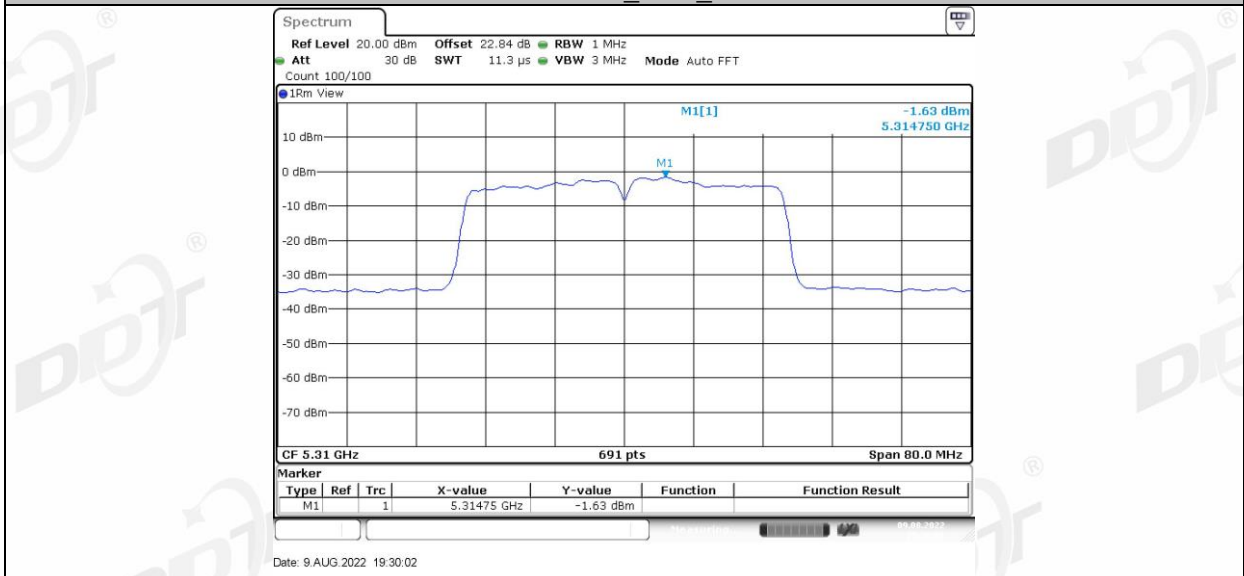
11N40SISO\_Ant1\_5230



11N40SISO\_Ant1\_5270



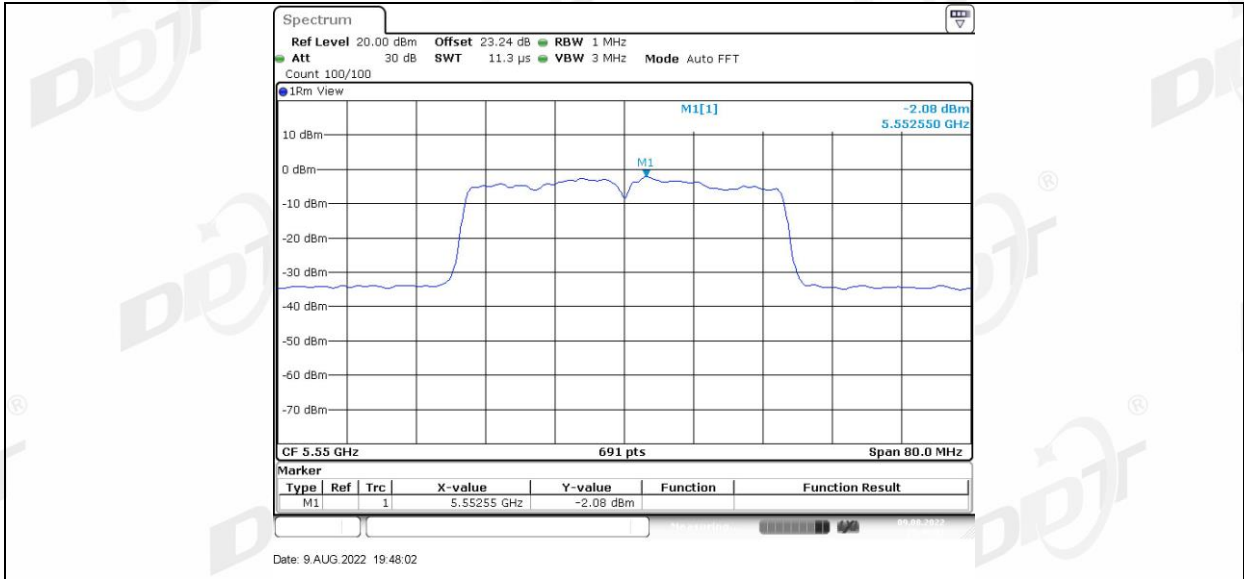
11N40SISO\_Ant1\_5310



11N40SISO\_Ant1\_5510



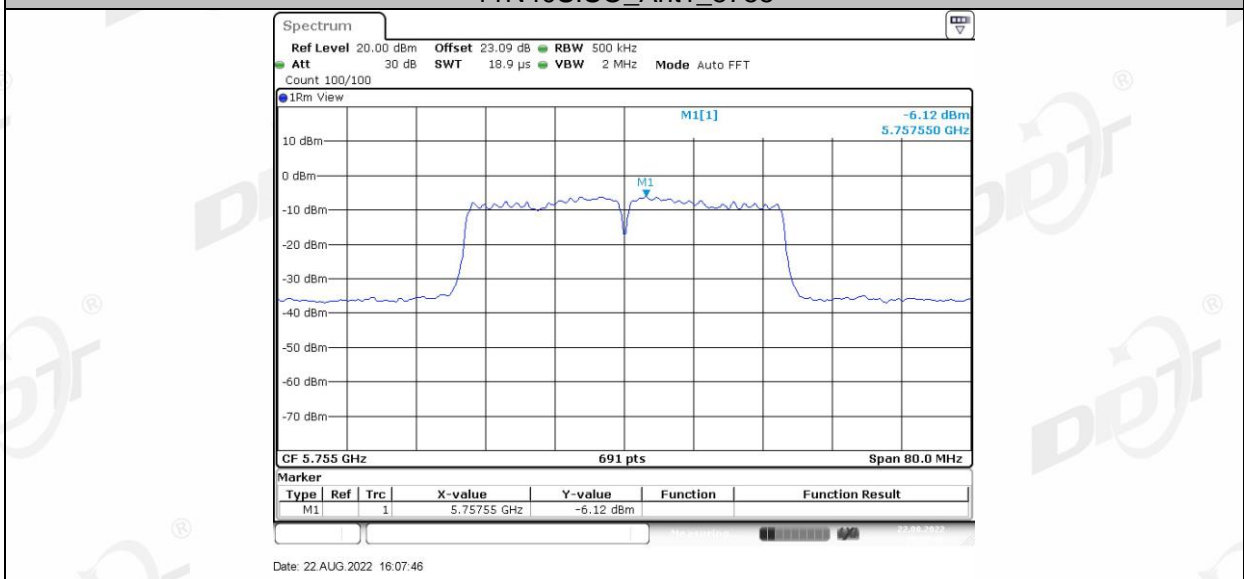
11N40SISO\_Ant1\_5550



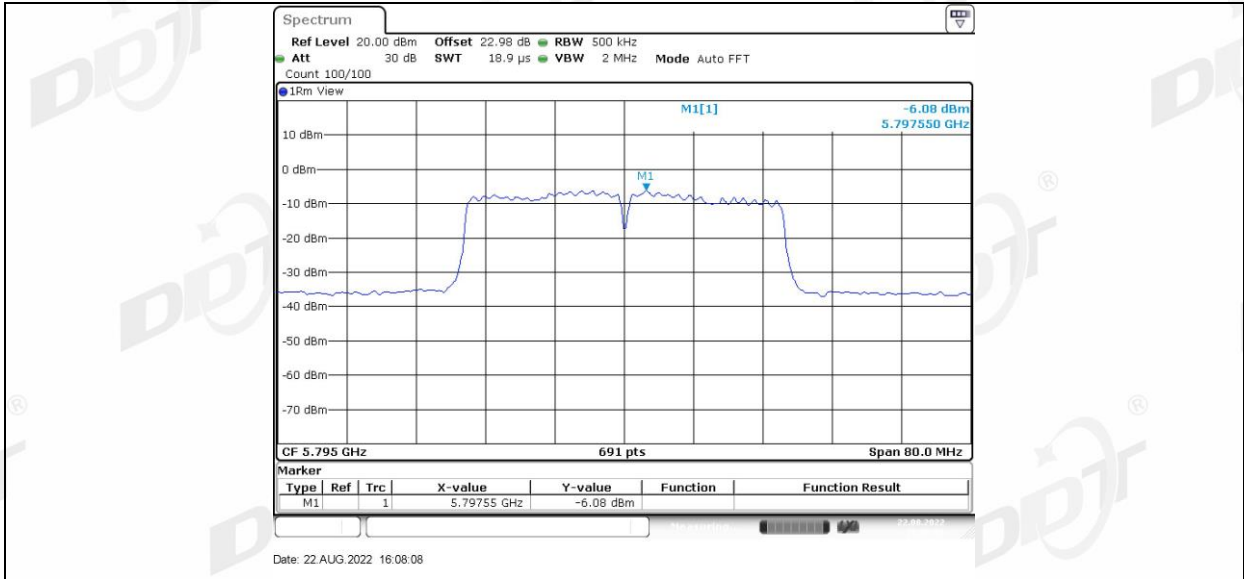
11N40SISO\_Ant1\_5670



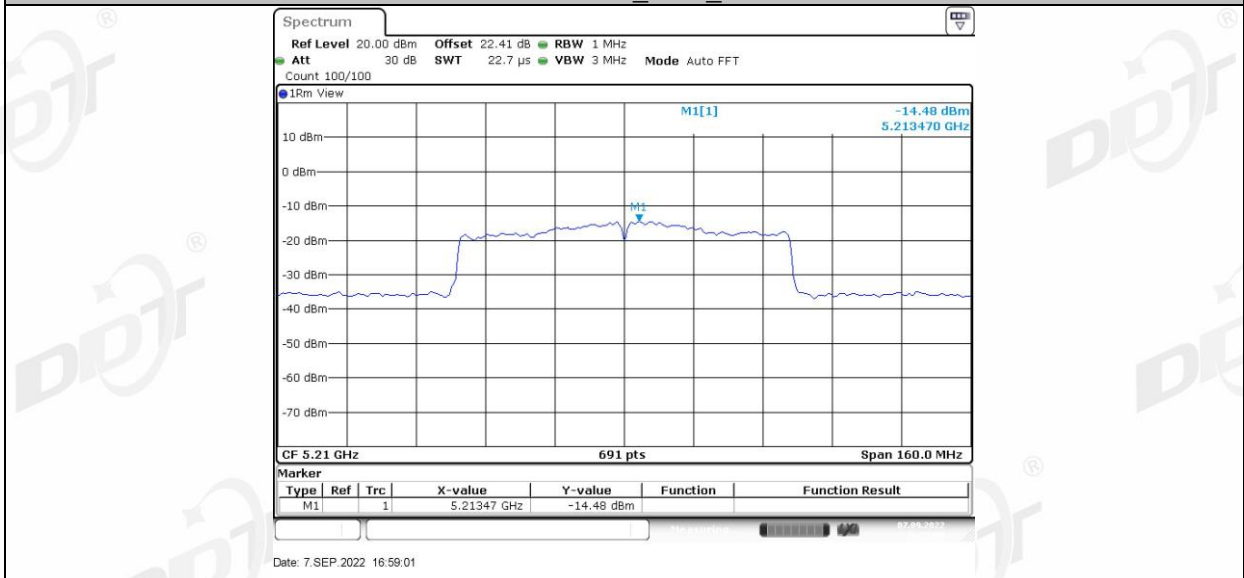
11N40SISO\_Ant1\_5755



11N40SISO\_Ant1\_5795



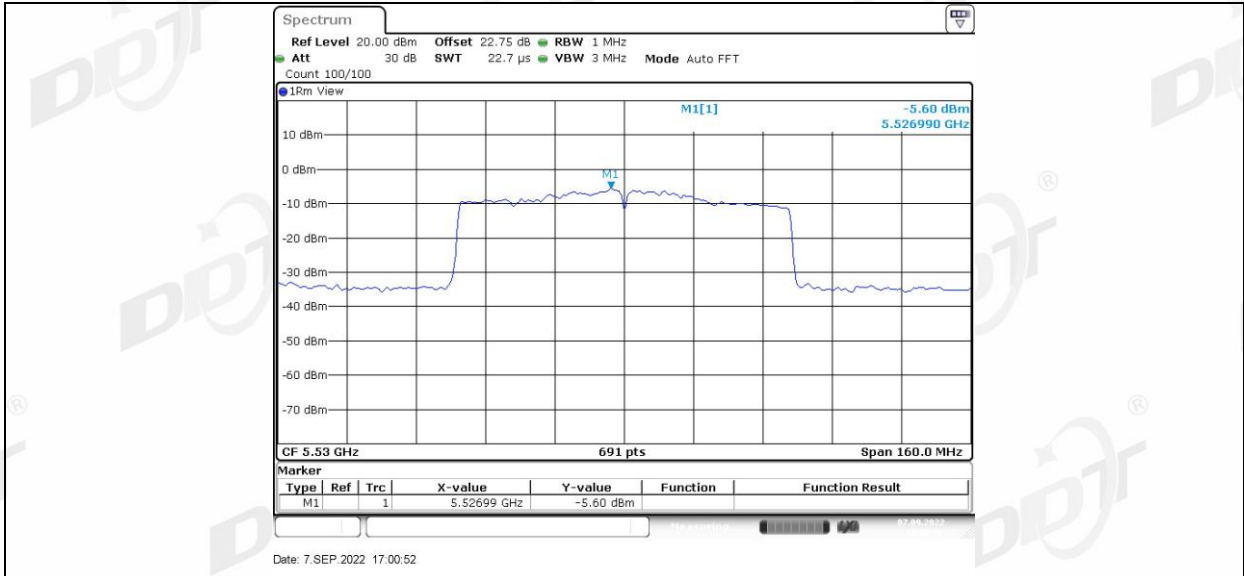
11AC80SISO\_Ant1\_5210



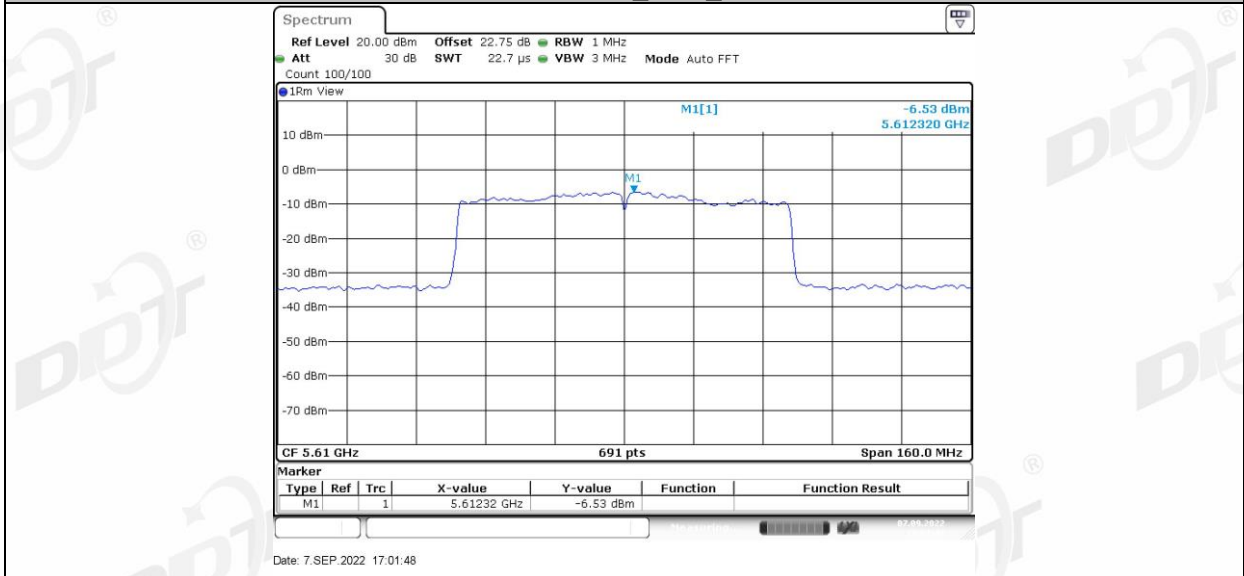
11AC80SISO\_Ant1\_5290



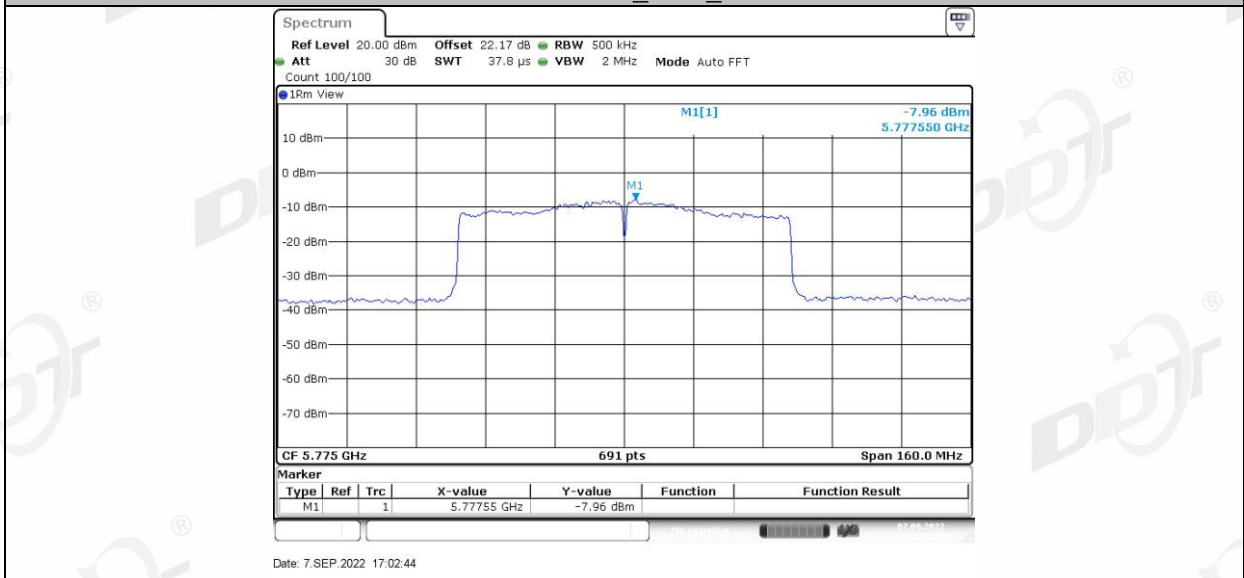
11AC80SISO\_Ant1\_5530



11AC80SISO\_Ant1\_5610



11AC80SISO\_Ant1\_5775



## 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.

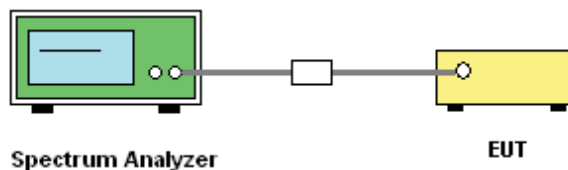
### 7.3. Test Procedures

(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

Test Mode	Antenna	Channel	Voltage				Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)		
11A	Ant1	5180	NV	NT	40000.00	7.722008	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
		5240	NV	NT	40000.00	7.633588	20	PASS
			LV	NT	40000.00	7.633588	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
		5260	NV	NT	40000.00	7.604563	20	PASS
			LV	NT	40000.00	7.604563	20	PASS
			HV	NT	40000.00	7.604563	20	PASS
5280	NV	NT	40000.00	7.575758	20	PASS		
	LV	NT	40000.00	7.575758	20	PASS		
	HV	NT	40000.00	7.575758	20	PASS		

11N20SI SO	Ant1	5320	NV	NT	20000.00	3.759398	20	PASS
			LV	NT	20000.00	3.759398	20	PASS
			HV	NT	20000.00	3.759398	20	PASS
		5500	NV	NT	40000.00	7.272727	20	PASS
			LV	NT	40000.00	7.272727	20	PASS
			HV	NT	40000.00	7.272727	20	PASS
		5580	NV	NT	20000.00	3.584229	20	PASS
			LV	NT	20000.00	3.584229	20	PASS
			HV	NT	20000.00	3.584229	20	PASS
		5700	NV	NT	60000.00	10.526316	20	PASS
			LV	NT	60000.00	10.526316	20	PASS
			HV	NT	60000.00	10.526316	20	PASS
		5745	NV	NT	40000.00	6.962576	20	PASS
			LV	NT	40000.00	6.962576	20	PASS
			HV	NT	60000.00	10.443864	20	PASS
		5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	20000.00	3.457217	20	PASS
		5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
		5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	40000.00	7.692308	20	PASS
		5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	40000.00	7.633588	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
		5260	NV	NT	40000.00	7.604563	20	PASS
			LV	NT	40000.00	7.604563	20	PASS
			HV	NT	60000.00	11.406844	20	PASS
		5280	NV	NT	40000.00	7.575758	20	PASS
			LV	NT	40000.00	7.575758	20	PASS
			HV	NT	40000.00	7.575758	20	PASS
5320	NV	NT	40000.00	7.518797	20	PASS		
	LV	NT	20000.00	3.759398	20	PASS		
	HV	NT	40000.00	7.518797	20	PASS		
5500	NV	NT	40000.00	7.272727	20	PASS		
	LV	NT	40000.00	7.272727	20	PASS		
	HV	NT	20000.00	3.636364	20	PASS		
5580	NV	NT	40000.00	7.168459	20	PASS		
	LV	NT	40000.00	7.168459	20	PASS		
	HV	NT	40000.00	7.168459	20	PASS		
5700	NV	NT	40000.00	7.017544	20	PASS		
	LV	NT	60000.00	10.526316	20	PASS		
	HV	NT	60000.00	10.526316	20	PASS		
5745	NV	NT	40000.00	6.962576	20	PASS		
	LV	NT	40000.00	6.962576	20	PASS		
	HV	NT	40000.00	6.962576	20	PASS		



		5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	40000.00	6.914434	20	PASS
		5825	NV	NT	60000.00	10.300429	20	PASS
			LV	NT	40000.00	6.866953	20	PASS
			HV	NT	40000.00	6.866953	20	PASS
11N40SI SO	Ant1	5190	NV	NT	80000.00	15.414258	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
		5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
		5270	NV	NT	40000.00	7.590133	20	PASS
			LV	NT	80000.00	15.180266	20	PASS
			HV	NT	80000.00	15.180266	20	PASS
		5310	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.532957	20	PASS
			HV	NT	40000.00	7.532957	20	PASS
		5510	NV	NT	40000.00	7.259528	20	PASS
			LV	NT	40000.00	7.259528	20	PASS
			HV	NT	40000.00	7.259528	20	PASS
		5550	NV	NT	40000.00	7.207207	20	PASS
			LV	NT	40000.00	7.207207	20	PASS
			HV	NT	40000.00	7.207207	20	PASS
		5670	NV	NT	40000.00	7.054674	20	PASS
			LV	NT	40000.00	7.054674	20	PASS
			HV	NT	40000.00	7.054674	20	PASS
		5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
			HV	NT	40000.00	6.950478	20	PASS
5795	NV	NT	40000.00	6.902502	20	PASS		
	LV	NT	0.00	0.000000	20	PASS		
	HV	NT	0.00	0.000000	20	PASS		
11AC80 SISO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5290	NV	NT	0.00	0.000000	20	PASS
			LV	NT	80000.00	15.122873	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5530	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5610	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
5775	NV	NT	0.00	0.000000	20	PASS		
	LV	NT	0.00	0.000000	20	PASS		
	HV	NT	100125.16	17.337689	20	PASS		

Temperature								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	20000.00	3.861004	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	60000.00	11.583012	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
		5200	NV	50	20000.00	3.861004	20	PASS
			NV	-30	20000.00	3.846154	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	40000.00	7.692308	20	PASS
			NV	20	40000.00	7.692308	20	PASS
			NV	30	20000.00	3.846154	20	PASS
		5240	NV	40	20000.00	3.846154	20	PASS
			NV	50	20000.00	3.846154	20	PASS
			NV	-30	40000.00	7.633588	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
		5260	NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
			NV	-30	40000.00	7.604563	20	PASS
			NV	-20	40000.00	7.604563	20	PASS
			NV	-10	40000.00	7.604563	20	PASS
			NV	0	40000.00	7.604563	20	PASS
			NV	10	40000.00	7.604563	20	PASS
		5280	NV	20	40000.00	7.604563	20	PASS
			NV	30	40000.00	7.604563	20	PASS
			NV	40	40000.00	7.604563	20	PASS
			NV	50	40000.00	7.604563	20	PASS
			NV	-30	20000.00	3.787879	20	PASS
			NV	-20	40000.00	7.575758	20	PASS
			NV	-10	40000.00	7.575758	20	PASS
			NV	0	40000.00	7.575758	20	PASS
		5320	NV	10	40000.00	7.575758	20	PASS
			NV	20	40000.00	7.575758	20	PASS
			NV	30	40000.00	7.575758	20	PASS
			NV	40	40000.00	7.575758	20	PASS
			NV	50	40000.00	7.575758	20	PASS
			NV	-30	20000.00	3.759398	20	PASS
			NV	-20	20000.00	3.759398	20	PASS

			NV	-10	20000.00	3.759398	20	PASS
			NV	0	20000.00	3.759398	20	PASS
			NV	10	20000.00	3.759398	20	PASS
			NV	20	20000.00	3.759398	20	PASS
			NV	30	40000.00	7.518797	20	PASS
			NV	40	20000.00	3.759398	20	PASS
			NV	50	20000.00	3.759398	20	PASS
		5500	NV	-30	40000.00	7.272727	20	PASS
			NV	-20	40000.00	7.272727	20	PASS
			NV	-10	40000.00	7.272727	20	PASS
			NV	0	40000.00	7.272727	20	PASS
			NV	10	40000.00	7.272727	20	PASS
			NV	20	40000.00	7.272727	20	PASS
			NV	30	40000.00	7.272727	20	PASS
			NV	40	40000.00	7.272727	20	PASS
		5580	NV	50	40000.00	7.272727	20	PASS
			NV	-30	20000.00	3.584229	20	PASS
			NV	-20	20000.00	3.584229	20	PASS
			NV	-10	20000.00	3.584229	20	PASS
			NV	0	20000.00	3.584229	20	PASS
			NV	10	20000.00	3.584229	20	PASS
			NV	20	20000.00	3.584229	20	PASS
			NV	30	20000.00	3.584229	20	PASS
		5700	NV	40	20000.00	3.584229	20	PASS
			NV	50	20000.00	3.584229	20	PASS
			NV	-30	60000.00	10.526316	20	PASS
			NV	-20	60000.00	10.526316	20	PASS
			NV	-10	60000.00	10.526316	20	PASS
			NV	0	60000.00	10.526316	20	PASS
			NV	10	60000.00	10.526316	20	PASS
			NV	20	60000.00	10.526316	20	PASS
		5745	NV	30	60000.00	10.526316	20	PASS
			NV	40	60000.00	10.526316	20	PASS
			NV	50	60000.00	10.526316	20	PASS
			NV	-30	20000.00	3.481288	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	40000.00	6.962576	20	PASS
		5785	NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	60000.00	10.443864	20	PASS
			NV	-30	20000.00	3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	20000.00	3.457217	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	20000.00	3.457217	20	PASS
			NV	40	20000.00	3.457217	20	PASS

		5825	NV	50	20000.00	3.457217	20	PASS
			NV	-30	20000.00	3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	20000.00	3.433476	20	PASS
11N20SI SO	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	20000.00	3.861004	20	PASS
			5200	NV	-30	40000.00	7.692308	20
		NV		-20	40000.00	7.692308	20	PASS
		NV		-10	40000.00	7.692308	20	PASS
		NV		0	20000.00	3.846154	20	PASS
		NV		10	40000.00	7.692308	20	PASS
		NV		20	60000.00	11.538462	20	PASS
		NV		30	40000.00	7.692308	20	PASS
		NV		40	20000.00	3.846154	20	PASS
		NV		50	0.00	0.000000	20	PASS
		5240		NV	-30	40000.00	7.633588	20
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
			5260	NV	-30	40000.00	7.604563	20
		NV		-20	40000.00	7.604563	20	PASS
		NV		-10	40000.00	7.604563	20	PASS
		NV		0	40000.00	7.604563	20	PASS
		NV		10	60000.00	11.406844	20	PASS
		NV		20	20000.00	3.802281	20	PASS
		NV		30	40000.00	7.604563	20	PASS
		NV		40	40000.00	7.604563	20	PASS
		NV		50	40000.00	7.604563	20	PASS
		5280		NV	-30	40000.00	7.575758	20
			NV	-20	20000.00	3.787879	20	PASS
			NV	-10	20000.00	3.787879	20	PASS
			NV	0	20000.00	3.787879	20	PASS
NV	10		40000.00	7.575758	20	PASS		

		NV	20	40000.00	7.575758	20	PASS	
		NV	30	40000.00	7.575758	20	PASS	
		NV	40	40000.00	7.575758	20	PASS	
		NV	50	20000.00	3.787879	20	PASS	
	5320	NV	-30	40000.00	7.518797	20	PASS	
		NV	-20	40000.00	7.518797	20	PASS	
		NV	-10	20000.00	3.759398	20	PASS	
		NV	0	40000.00	7.518797	20	PASS	
		NV	10	40000.00	7.518797	20	PASS	
		NV	20	40000.00	7.518797	20	PASS	
		NV	30	40000.00	7.518797	20	PASS	
		NV	40	40000.00	7.518797	20	PASS	
		NV	50	20000.00	3.759398	20	PASS	
		5500	NV	-30	40000.00	7.272727	20	PASS
			NV	-20	40000.00	7.272727	20	PASS
			NV	-10	20000.00	3.636364	20	PASS
	NV		0	40000.00	7.272727	20	PASS	
	NV		10	40000.00	7.272727	20	PASS	
	NV		20	40000.00	7.272727	20	PASS	
	NV		30	40000.00	7.272727	20	PASS	
	NV		40	40000.00	7.272727	20	PASS	
	5580	NV	50	40000.00	7.272727	20	PASS	
		NV	-30	20000.00	3.584229	20	PASS	
		NV	-20	20000.00	3.584229	20	PASS	
		NV	-10	20000.00	3.584229	20	PASS	
		NV	0	40000.00	7.168459	20	PASS	
		NV	10	20000.00	3.584229	20	PASS	
		NV	20	40000.00	7.168459	20	PASS	
		NV	30	60000.00	10.752688	20	PASS	
	5700	NV	40	40000.00	7.168459	20	PASS	
		NV	50	40000.00	7.168459	20	PASS	
		NV	-30	60000.00	10.526316	20	PASS	
		NV	-20	20000.00	3.508772	20	PASS	
		NV	-10	40000.00	7.017544	20	PASS	
		NV	0	40000.00	7.017544	20	PASS	
		NV	10	40000.00	7.017544	20	PASS	
		NV	20	40000.00	7.017544	20	PASS	
		NV	30	40000.00	7.017544	20	PASS	
		NV	40	40000.00	7.017544	20	PASS	
	5745	NV	50	20000.00	3.508772	20	PASS	
		NV	-30	40000.00	6.962576	20	PASS	
		NV	-20	40000.00	6.962576	20	PASS	
		NV	-10	40000.00	6.962576	20	PASS	
		NV	0	40000.00	6.962576	20	PASS	
		NV	10	60000.00	10.443864	20	PASS	
		NV	20	40000.00	6.962576	20	PASS	
		NV	30	40000.00	6.962576	20	PASS	
	5785	NV	40	40000.00	6.962576	20	PASS	
		NV	50	40000.00	6.962576	20	PASS	
		NV	-30	40000.00	6.914434	20	PASS	
		NV	-20	40000.00	6.914434	20	PASS	

		5825	NV	-10	40000.00	6.914434	20	PASS		
			NV	0	40000.00	6.914434	20	PASS		
			NV	10	60000.00	10.371651	20	PASS		
			NV	20	20000.00	3.457217	20	PASS		
			NV	30	40000.00	6.914434	20	PASS		
			NV	40	20000.00	3.457217	20	PASS		
			NV	50	20000.00	3.457217	20	PASS		
			NV	-30	20000.00	3.433476	20	PASS		
			NV	-20	20000.00	3.433476	20	PASS		
			NV	-10	40000.00	6.866953	20	PASS		
			NV	0	60000.00	10.300429	20	PASS		
			NV	10	60000.00	10.300429	20	PASS		
			NV	20	40000.00	6.866953	20	PASS		
			NV	30	20000.00	3.433476	20	PASS		
		NV	40	60000.00	10.300429	20	PASS			
		NV	50	40000.00	6.866953	20	PASS			
		11N40SI SO	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
					NV	-20	40000.00	7.707129	20	PASS
					NV	-10	0.00	0.000000	20	PASS
					NV	0	40000.00	7.707129	20	PASS
					NV	10	40000.00	7.707129	20	PASS
					NV	20	0.00	0.000000	20	PASS
					NV	30	0.00	0.000000	20	PASS
					NV	40	0.00	0.000000	20	PASS
				5230	NV	50	0.00	0.000000	20	PASS
					NV	-30	40000.00	7.648184	20	PASS
					NV	-20	40000.00	7.648184	20	PASS
					NV	-10	40000.00	7.648184	20	PASS
NV	0				40000.00	7.648184	20	PASS		
NV	10				40000.00	7.648184	20	PASS		
NV	20				80000.00	15.296367	20	PASS		
NV	30				80000.00	15.296367	20	PASS		
5270	NV			40	40000.00	7.648184	20	PASS		
	NV			50	0.00	0.000000	20	PASS		
	NV			-30	40000.00	7.590133	20	PASS		
	NV			-20	40000.00	7.590133	20	PASS		
	NV			-10	0.00	0.000000	20	PASS		
	NV			0	80000.00	15.180266	20	PASS		
	NV			10	40000.00	7.590133	20	PASS		
	NV			20	80000.00	15.180266	20	PASS		
5310	NV			30	40000.00	7.590133	20	PASS		
	NV			40	40000.00	7.590133	20	PASS		
	NV			50	40000.00	7.590133	20	PASS		
	NV			-30	0.00	0.000000	20	PASS		
	NV	-20	0.00	0.000000	20	PASS				
	NV	-10	0.00	0.000000	20	PASS				
	NV	0	0.00	0.000000	20	PASS				
	NV	10	40000.00	7.532957	20	PASS				
NV	20	80000.00	15.065913	20	PASS					
NV	30	40000.00	7.532957	20	PASS					
NV	40	80000.00	15.065913	20	PASS					

		5510	NV	50	40000.00	7.532957	20	PASS
			NV	-30	80000.00	14.519056	20	PASS
			NV	-20	40000.00	7.259528	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.259528	20	PASS
			NV	10	40000.00	7.259528	20	PASS
			NV	20	80000.00	14.519056	20	PASS
			NV	30	40000.00	7.259528	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.259528	20	PASS
		5550	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.207207	20	PASS
			NV	-10	40000.00	7.207207	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.207207	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.207207	20	PASS
			NV	40	40000.00	7.207207	20	PASS
		5670	NV	50	40000.00	7.207207	20	PASS
			NV	-30	40000.00	7.054674	20	PASS
			NV	-20	80000.00	14.109347	20	PASS
			NV	-10	80000.00	14.109347	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.054674	20	PASS
			NV	20	40000.00	7.054674	20	PASS
			NV	30	40000.00	7.054674	20	PASS
		5755	NV	40	40000.00	7.054674	20	PASS
			NV	50	40000.00	7.054674	20	PASS
			NV	-30	80000.00	13.900956	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
		5795	NV	30	80000.00	13.900956	20	PASS
			NV	40	80000.00	13.900956	20	PASS
			NV	50	40000.00	6.950478	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS
		5210	NV	20	80000.00	13.805004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.902502	20	PASS
NV	50		0.00	0.000000	20	PASS		
NV	10		0.00	0.000000	20	PASS		
11AC80 SISO	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS

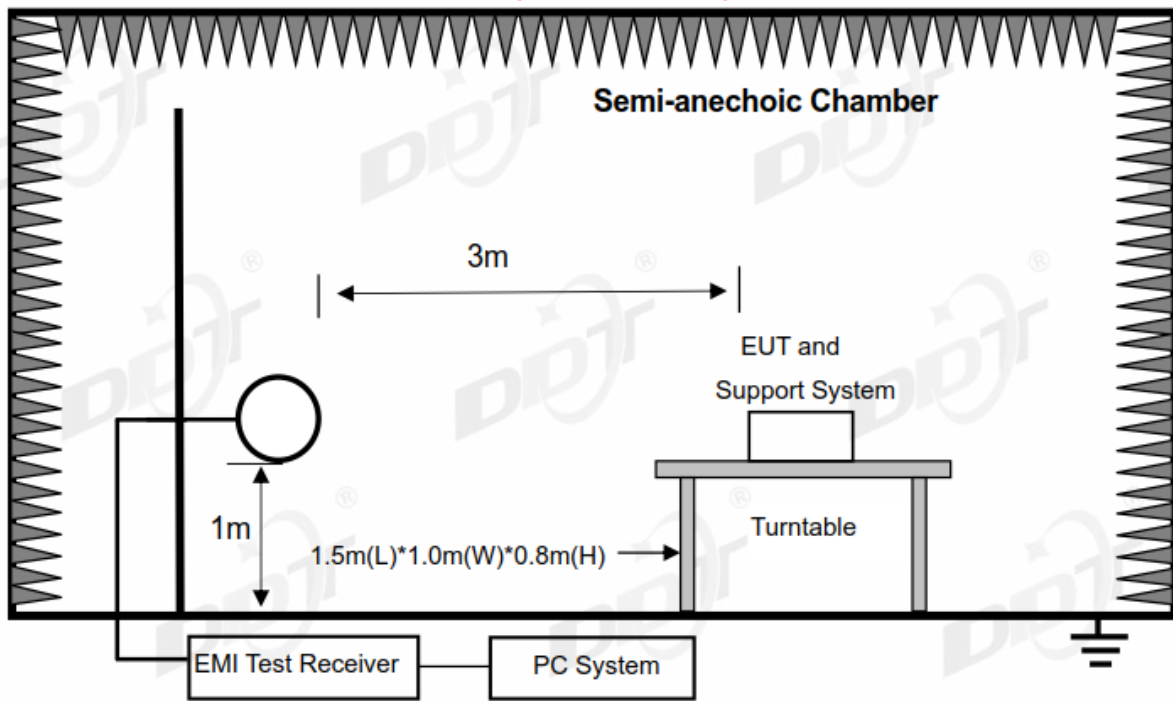
			NV	20	0.00	0.000000	20	PASS	
			NV	30	0.00	0.000000	20	PASS	
			NV	40	0.00	0.000000	20	PASS	
			NV	50	0.00	0.000000	20	PASS	
		5290	NV	-30	0.00	0.000000	20	PASS	
			NV	-20	80000.00	15.122873	20	PASS	
			NV	-10	80000.00	15.122873	20	PASS	
			NV	0	0.00	0.000000	20	PASS	
			NV	10	0.00	0.000000	20	PASS	
			NV	20	0.00	0.000000	20	PASS	
			NV	30	0.00	0.000000	20	PASS	
			NV	40	0.00	0.000000	20	PASS	
			NV	50	0.00	0.000000	20	PASS	
			5530	NV	-30	0.00	0.000000	20	PASS
				NV	-20	0.00	0.000000	20	PASS
				NV	-10	0.00	0.000000	20	PASS
		NV		0	0.00	0.000000	20	PASS	
		NV		10	0.00	0.000000	20	PASS	
		NV		20	0.00	0.000000	20	PASS	
		NV		30	0.00	0.000000	20	PASS	
		NV		40	0.00	0.000000	20	PASS	
		5610	NV	50	0.00	0.000000	20	PASS	
			NV	-30	0.00	0.000000	20	PASS	
			NV	-20	0.00	0.000000	20	PASS	
			NV	-10	0.00	0.000000	20	PASS	
			NV	0	0.00	0.000000	20	PASS	
			NV	10	0.00	0.000000	20	PASS	
			NV	20	0.00	0.000000	20	PASS	
			NV	30	0.00	0.000000	20	PASS	
		5775	NV	40	0.00	0.000000	20	PASS	
			NV	50	0.00	0.000000	20	PASS	
			NV	-30	0.00	0.000000	20	PASS	
			NV	-20	0.00	0.000000	20	PASS	
			NV	-10	0.00	0.000000	20	PASS	
			NV	0	0.00	0.000000	20	PASS	
			NV	10	0.00	0.000000	20	PASS	
			NV	20	100125.16	17.337689	20	PASS	
			NV	30	100125.16	17.337689	20	PASS	
		NV	40	-100125.16	-17.337690	20	PASS		
		NV	50	0.00	0.000000	20	PASS		



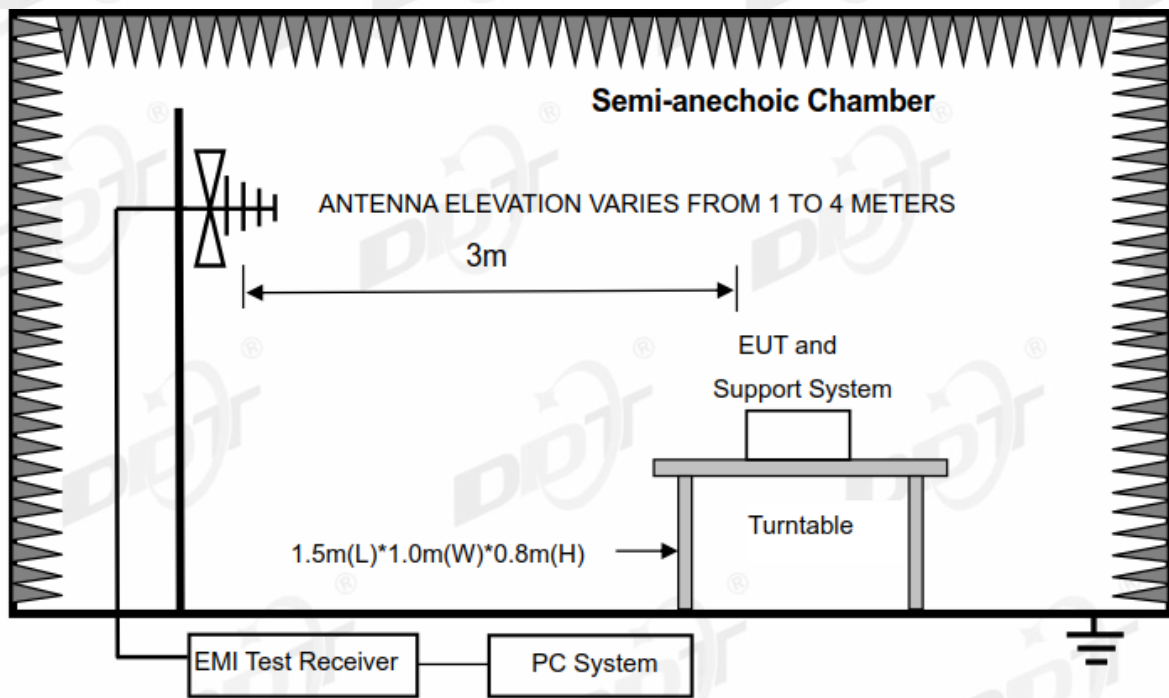
## 8. Emissions in restricted frequency bands

### 8.1. Block diagram of test setup

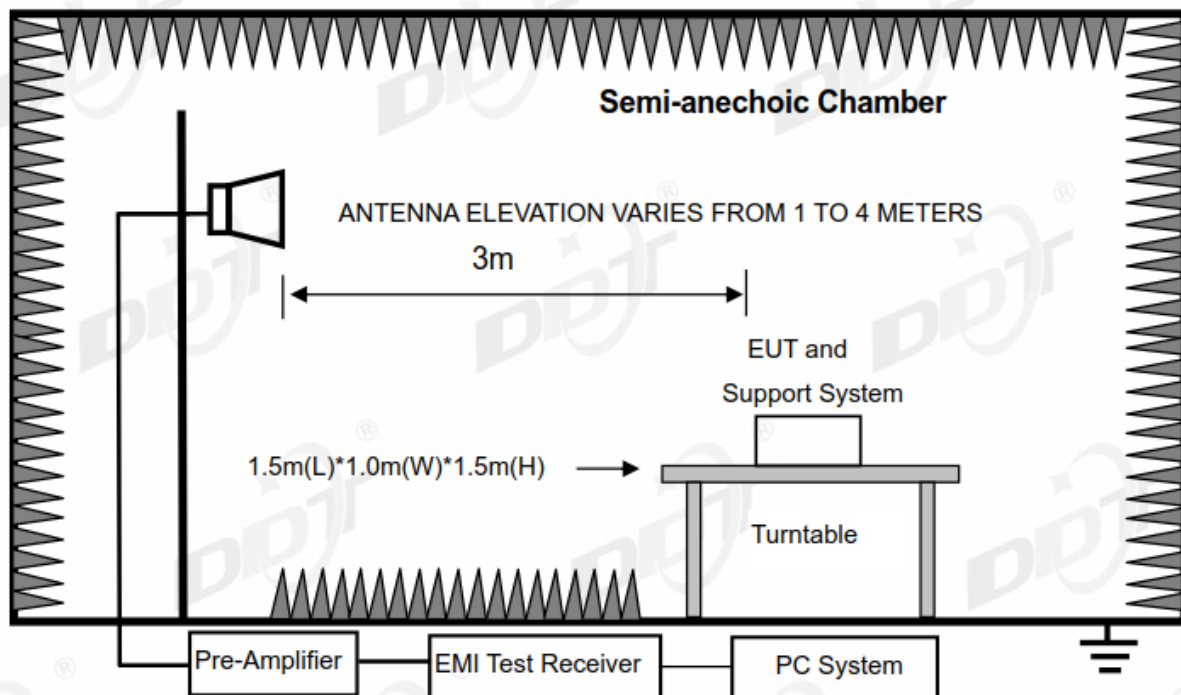
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



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

(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
10.495-0.505	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	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6

## (2) FCC 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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( $\mu\text{V}$ )/m (Peak) 54.0 dB( $\mu\text{V}$ )/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 - 90 kHz, 110 - 490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

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

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

## (3) Limit for this EUT

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 20 dB below the fundamental emissions or comply with 15.209 limits.

**8.3. Test Procedure**

- (1) EUT height should be 0 m for below 1 GHz at a semi - anechoic chamber while EUT height should be 0 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 to 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 through 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 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test no any obvious emission was 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 802.11a mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit. And the BT+5GWIFI is the worst simultaneous case and reported.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC BELOW 1G.EM6

Test Date : 2022-08-03

Tested By : Bairong

EUT : ACTIVE WIRELESS SPEAKER

Model Number : VIFA013

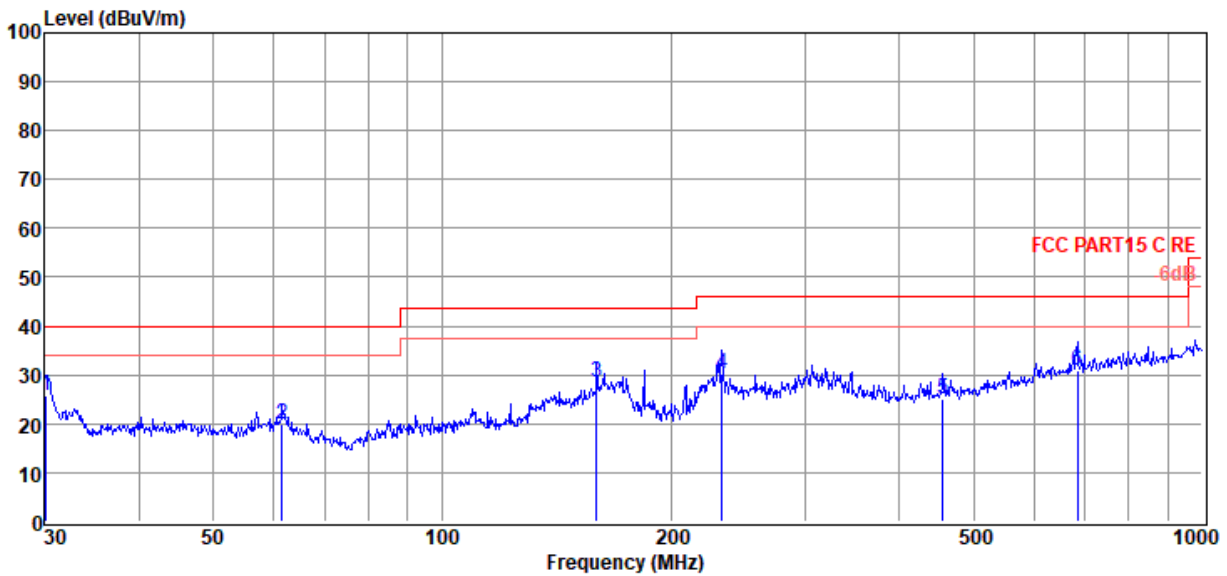
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:23.2°C,Humi:57.1%,Press:100.3kPa Antenna/Distance : 2022 9161 #3/3m/HORIZONTAL

Memo :

Data:  
7



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	30.11	11.37	10.82	3.55	25.74	40.00	-14.26	QP	HORIZONTAL
2	61.56	4.28	11.73	3.76	19.77	40.00	-20.23	QP	HORIZONTAL
3	159.78	5.32	18.86	4.30	28.48	43.50	-15.02	QP	HORIZONTAL
4	233.35	13.94	11.57	4.59	30.10	46.00	-15.90	QP	HORIZONTAL
5	455.91	2.68	17.12	5.34	25.14	46.00	-20.86	QP	HORIZONTAL
6	684.75	4.73	20.10	5.95	30.78	46.00	-15.22	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 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC BELOW 1G.EM6

**Test Date** : 2022-08-03

**Tested By** : Bairong

**EUT** : ACTIVE WIRELESS SPEAKER

**Model Number** : VIFA013

**Power Supply** : AC 120V/60Hz

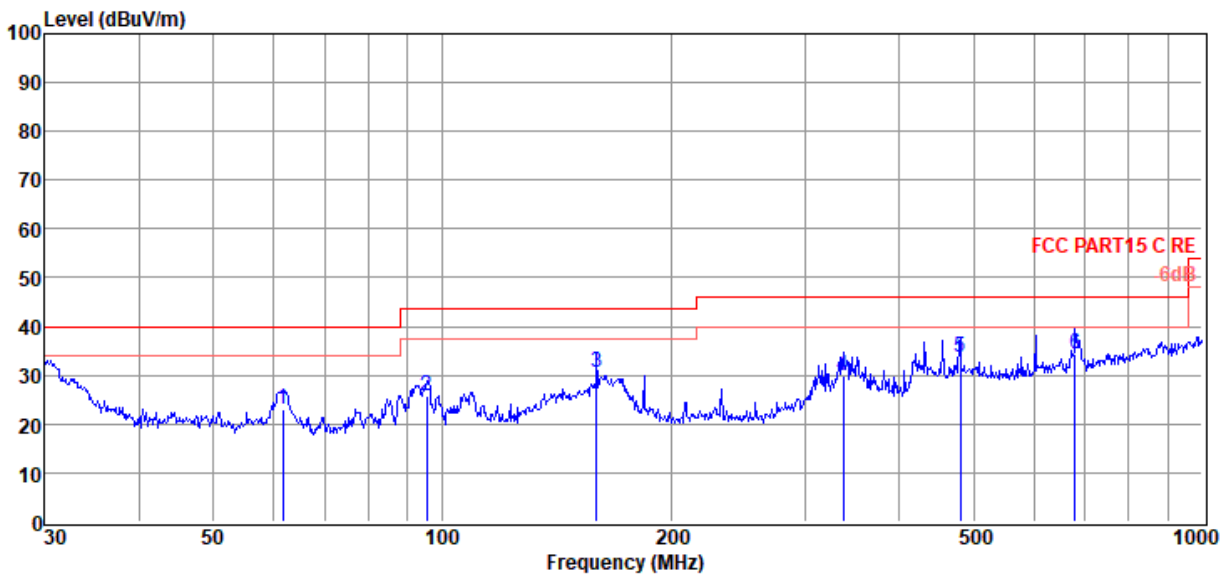
**Test Mode** : Tx mode

**Condition** : Temp:23.2°C,Humi:57.1%,Press:100.3kPa

**Antenna/Distance** : 2022 9161 #3/3m/VERTICAL

**Memo** :

Data:  
8



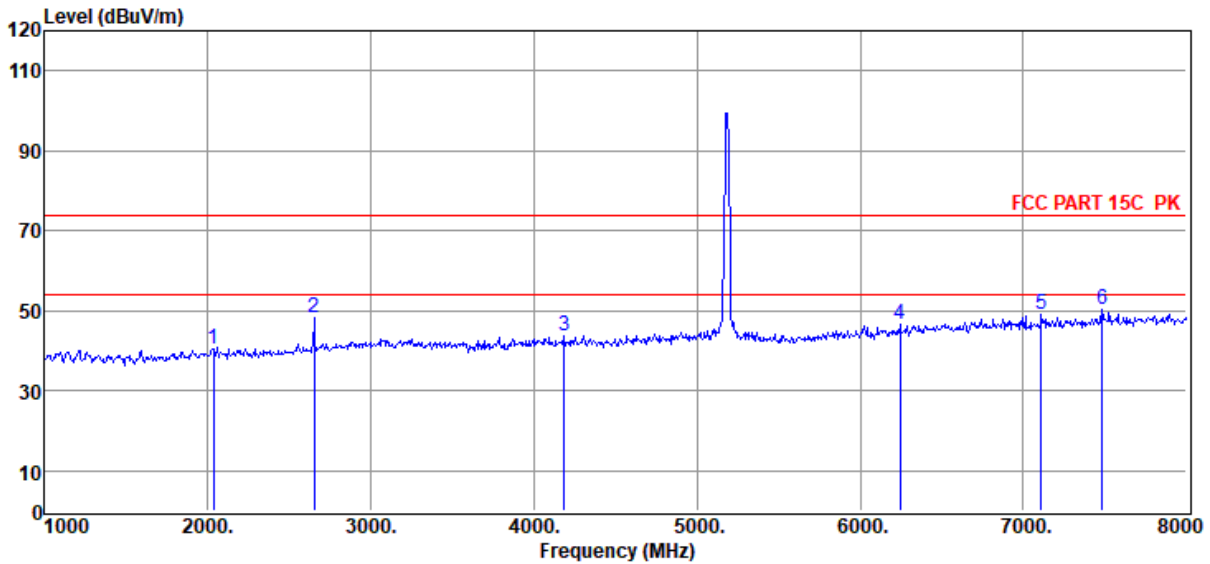
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	61.78	7.54	11.67	3.76	22.97	40.00	-17.03	QP	VERTICAL
2	95.43	9.90	11.94	3.96	25.80	43.50	-17.70	QP	VERTICAL
3	159.78	7.58	18.86	4.30	30.74	43.50	-12.76	QP	VERTICAL
4	337.22	11.04	13.84	4.95	29.83	46.00	-16.17	QP	VERTICAL
5	480.53	11.02	17.20	5.42	33.64	46.00	-12.36	QP	VERTICAL
6	679.96	8.48	20.10	5.94	34.52	46.00	-11.48	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) TR-4-E-009 Radiated Emission Test Result

<b>Test Site</b> : DDT 3m Chamber 3#  <b>Test Date</b> : 2022-08-05  <b>EUT</b> : ACTIVE WIRELESS SPEAKER  <b>Power Supply</b> : AC 120V/60Hz  <b>Condition</b> : Temp:23.1°C,Humi:51.5%,Press:100.3kPa  <b>Memo</b> : 11A 5180	D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  <b>Tested By</b> : Bairong  <b>Model Number</b> : VIFA013  <b>Test Mode</b> : Tx mode  <b>Antenna/Distance</b> : 2021 BBHA 9120D : 3#/3m/HORIZONTAL
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Data: 19



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2036.00	50.81	26.76	39.42	1.61	0.68	40.44	74.00	-33.56	Peak	HORIZONTAL
2	2652.00	57.36	28.18	39.73	1.78	0.75	48.34	74.00	-25.66	Peak	HORIZONTAL
3	4185.00	49.60	31.25	40.24	2.20	0.87	43.68	74.00	-30.32	Peak	HORIZONTAL
4	6243.00	48.00	34.58	40.31	3.15	1.09	46.51	74.00	-27.49	Peak	HORIZONTAL
5	7111.00	48.71	36.09	39.71	3.05	0.96	49.10	74.00	-24.90	Peak	HORIZONTAL
6	7482.00	49.37	36.39	39.75	3.14	1.05	50.20	74.00	-23.80	Peak	HORIZONTAL

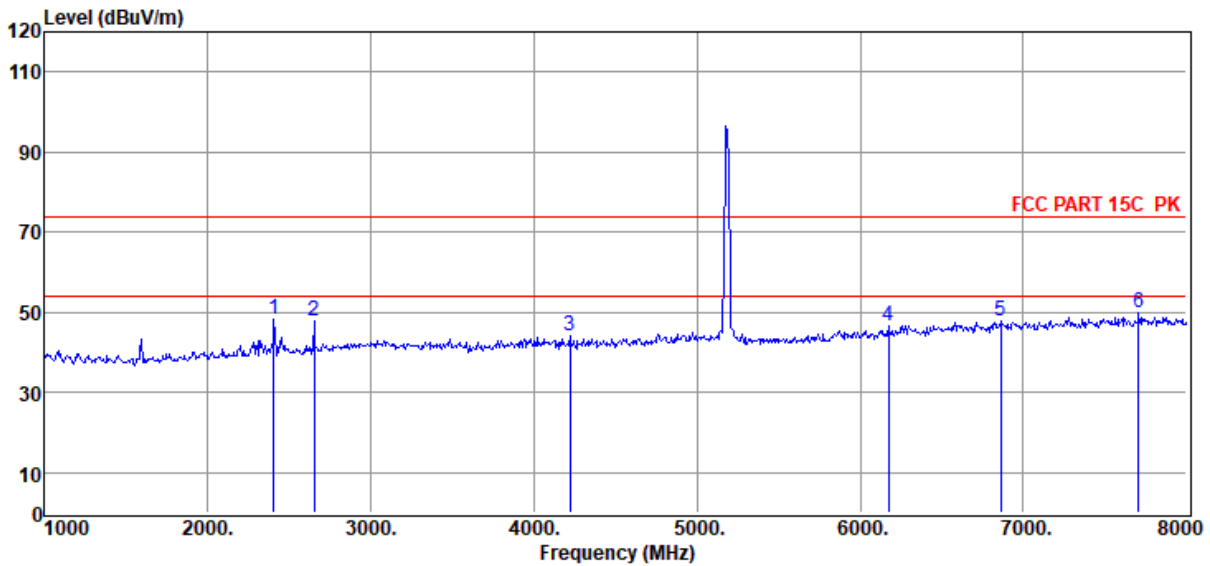
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5180

Data: 20



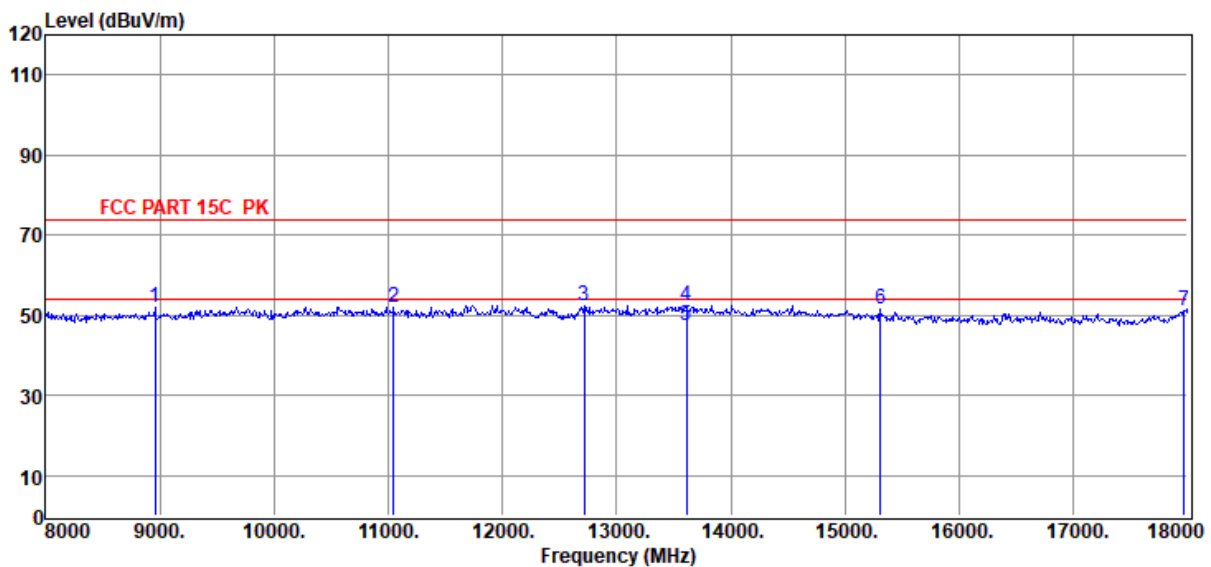
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2407.00	58.12	27.43	39.60	1.71	0.72	48.38	74.00	-25.62	Peak	VERTICAL
2	2652.00	56.82	28.18	39.73	1.78	0.75	47.80	74.00	-26.20	Peak	VERTICAL
3	4220.00	50.05	31.28	40.24	2.22	0.87	44.18	74.00	-29.82	Peak	VERTICAL
4	6173.00	48.39	34.42	40.36	3.11	1.10	46.66	74.00	-27.34	Peak	VERTICAL
5	6859.00	47.84	35.77	39.81	3.09	0.96	47.85	74.00	-26.15	Peak	VERTICAL
6	7706.00	48.69	36.65	39.77	3.16	1.11	49.84	74.00	-24.16	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5180

Data: 21



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8960.00	47.46	38.26	39.90	3.32	2.80	51.94	74.00	-22.06	Peak	HORIZONTAL
2	11050.00	46.65	39.27	40.19	3.82	2.61	52.16	74.00	-21.84	Peak	HORIZONTAL
3	12720.00	47.01	39.26	40.32	4.01	2.57	52.53	74.00	-21.47	Peak	HORIZONTAL
4	13610.00	45.78	39.98	39.97	4.11	2.67	52.57	74.00	-21.43	Peak	HORIZONTAL
5	13610.00	40.74	39.98	39.97	4.11	2.67	47.53	54.00	-6.47	Average	HORIZONTAL
6	15310.00	45.22	39.07	39.69	4.53	2.46	51.59	74.00	-22.41	Peak	HORIZONTAL
7	17970.00	41.99	42.31	40.68	4.95	2.63	51.20	74.00	-22.80	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6

**Test Date** : 2022-08-05

**Tested By** : Bairong

**EUT** : ACTIVE WIRELESS SPEAKER

**Model Number** : VIFA013

**Power Supply** : AC 120V/60Hz

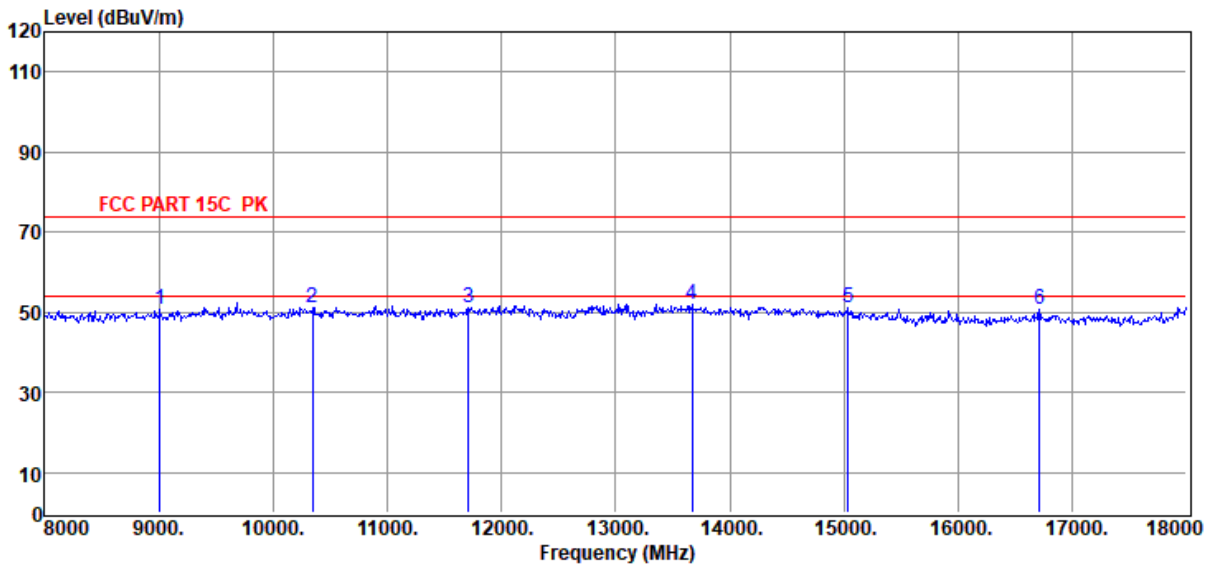
**Test Mode** : Tx mode

**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

**Memo** : 11A 5180

Data: 22



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9010.00	46.37	38.31	39.91	3.34	2.80	50.91	74.00	-23.09	Peak	VERTICAL
2	10350.00	46.35	38.82	40.46	3.67	2.89	51.27	74.00	-22.73	Peak	VERTICAL
3	11710.00	45.82	39.08	40.13	4.00	2.44	51.21	74.00	-22.79	Peak	VERTICAL
4	13670.00	44.88	39.97	39.93	4.17	2.68	51.77	74.00	-22.23	Peak	VERTICAL
5	15040.00	44.27	39.44	39.61	4.48	2.40	50.98	74.00	-23.02	Peak	VERTICAL
6	16710.00	44.54	38.15	40.04	4.72	3.16	50.53	74.00	-23.47	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6

**Test Date** : 2022-08-05

**Tested By** : Bairong

**EUT** : ACTIVE WIRELESS SPEAKER

**Model Number** : VIFA013

**Power Supply** : AC 120V/60Hz

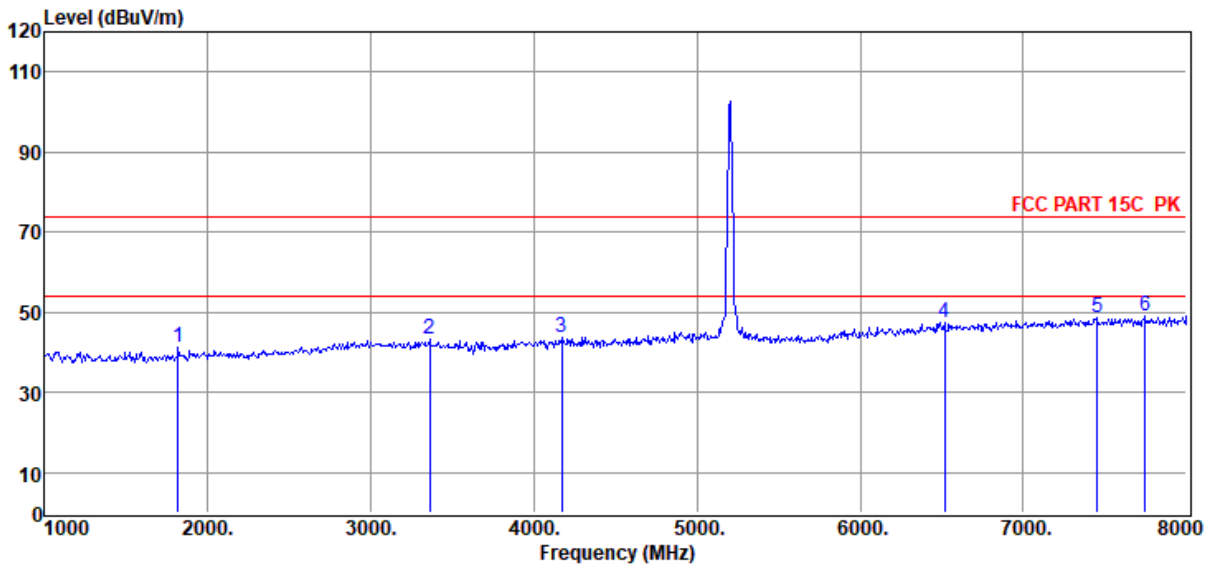
**Test Mode** : Tx mode

**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa

**Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL

**Memo** : 11A 5200

Data: 23



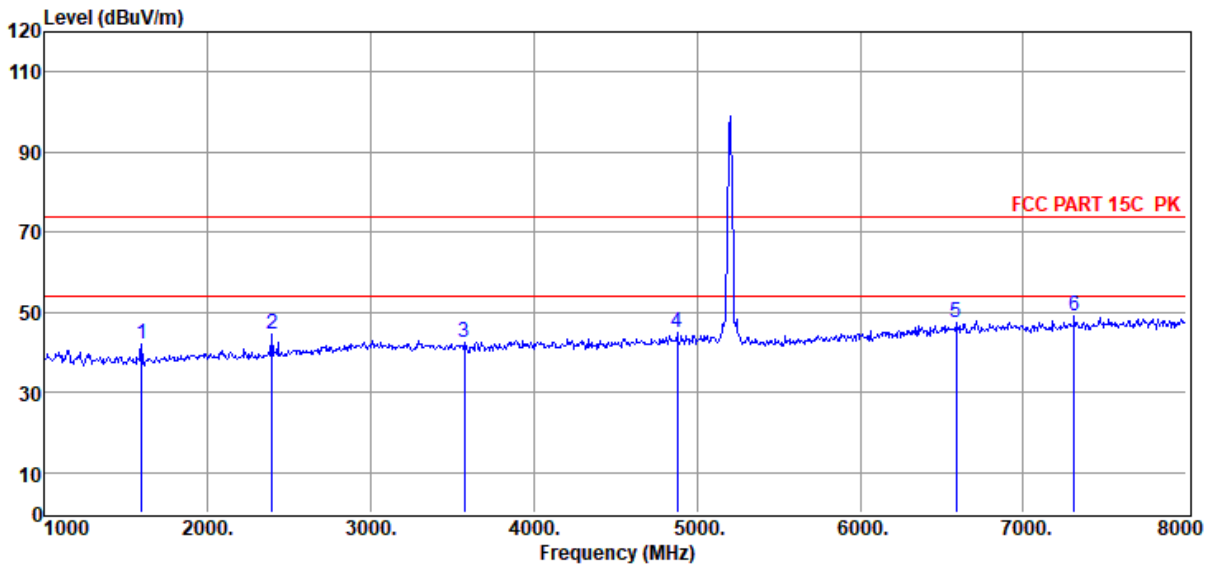
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1819.00	51.96	26.23	39.13	1.52	0.65	41.23	74.00	-32.77	Peak	HORIZONTAL
2	3359.00	51.39	29.43	40.01	1.74	0.82	43.37	74.00	-30.63	Peak	HORIZONTAL
3	4171.00	49.80	31.24	40.23	2.20	0.87	43.88	74.00	-30.12	Peak	HORIZONTAL
4	6516.00	48.11	35.23	40.09	3.26	1.03	47.54	74.00	-26.46	Peak	HORIZONTAL
5	7454.00	47.82	36.36	39.75	3.13	1.04	48.60	74.00	-25.40	Peak	HORIZONTAL
6	7748.00	47.82	36.70	39.77	3.16	1.12	49.03	74.00	-24.97	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5200

Data: 24



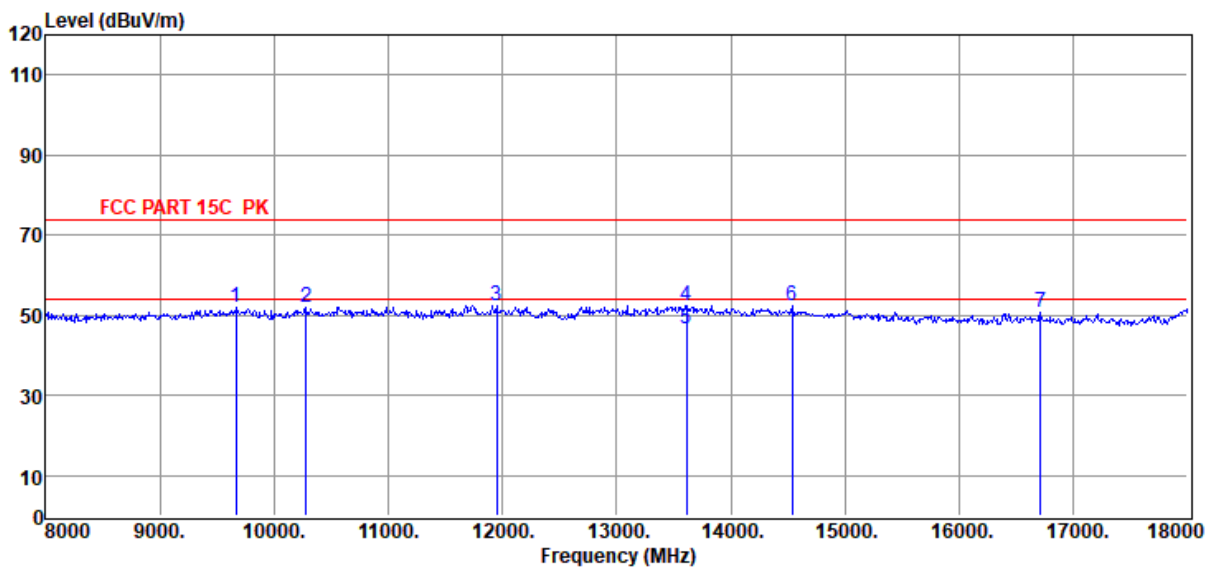
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	53.27	25.65	38.79	1.42	0.61	42.16	74.00	-31.84	Peak	VERTICAL
2	2393.00	54.45	27.41	39.60	1.71	0.72	44.69	74.00	-29.31	Peak	VERTICAL
3	3576.00	50.47	29.66	40.07	1.75	0.83	42.64	74.00	-31.36	Peak	VERTICAL
4	4878.00	49.30	32.71	40.38	2.50	0.90	45.03	74.00	-28.97	Peak	VERTICAL
5	6586.00	47.67	35.34	40.03	3.23	1.02	47.23	74.00	-26.77	Peak	VERTICAL
6	7314.00	48.32	36.25	39.73	3.10	1.01	48.95	74.00	-25.05	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5200

Data: 25



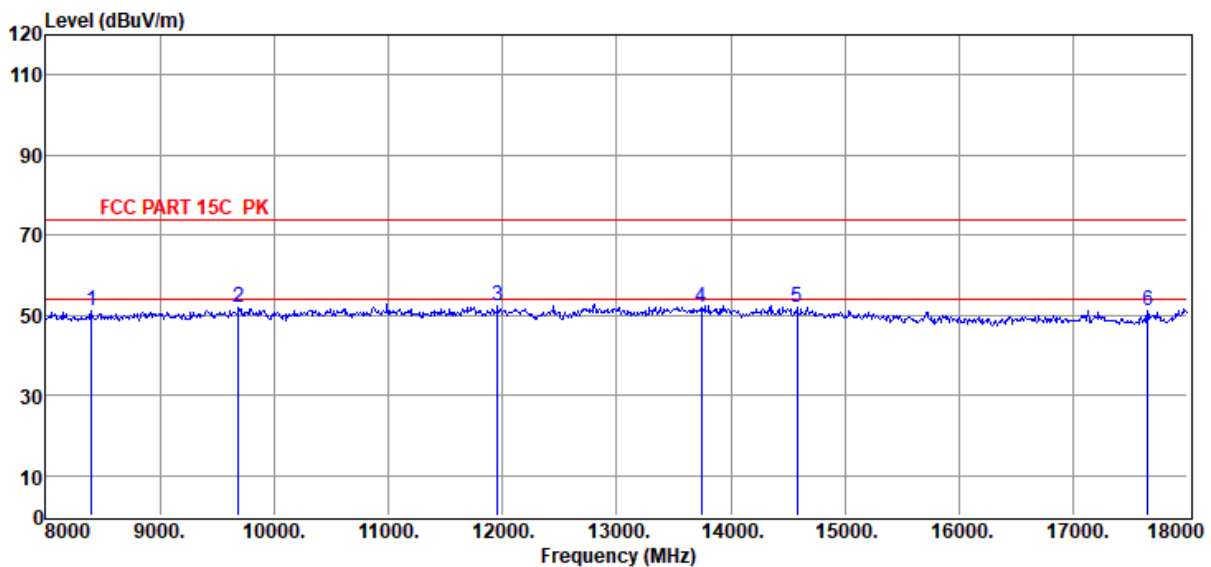
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9670.00	47.04	38.60	40.37	3.64	2.96	51.87	74.00	-22.13	Peak	HORIZONTAL
2	10280.00	47.04	38.74	40.49	3.67	2.92	51.88	74.00	-22.12	Peak	HORIZONTAL
3	11950.00	47.05	39.18	40.10	4.04	2.38	52.55	74.00	-21.45	Peak	HORIZONTAL
4	13610.00	45.78	39.98	39.97	4.11	2.67	52.57	74.00	-21.43	Peak	HORIZONTAL
5	13610.00	39.74	39.98	39.97	4.11	2.67	46.53	54.00	-7.47	Average	HORIZONTAL
6	14540.00	45.06	39.87	39.65	4.36	2.53	52.17	74.00	-21.83	Peak	HORIZONTAL
7	16710.00	44.59	38.15	40.04	4.72	3.16	50.58	74.00	-23.42	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5200

Data: 26



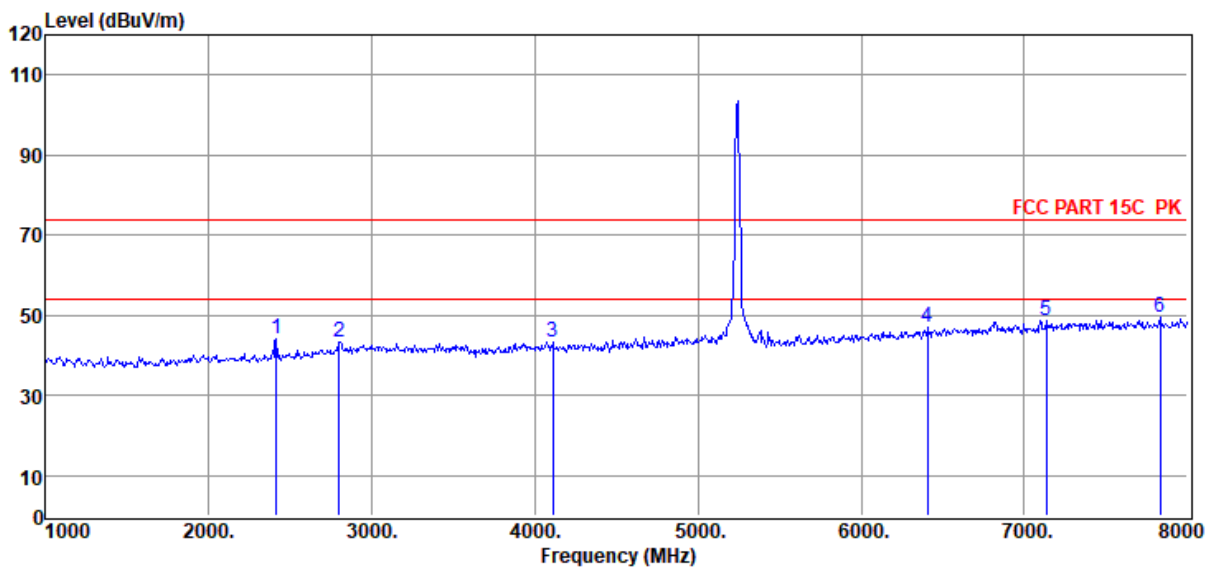
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8400.00	47.34	37.64	39.84	3.21	2.75	51.10	74.00	-22.90	Peak	VERTICAL
2	9690.00	47.23	38.59	40.38	3.64	2.97	52.05	74.00	-21.95	Peak	VERTICAL
3	11960.00	46.79	39.18	40.10	4.04	2.38	52.29	74.00	-21.71	Peak	VERTICAL
4	13740.00	45.12	39.95	39.88	4.25	2.68	52.12	74.00	-21.88	Peak	VERTICAL
5	14580.00	45.01	39.84	39.64	4.37	2.52	52.10	74.00	-21.90	Peak	VERTICAL
6	17650.00	43.56	40.33	40.49	4.86	2.88	51.14	74.00	-22.86	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5240

Data: 27



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2414.00	53.77	27.45	39.61	1.72	0.73	44.06	74.00	-29.94	Peak	HORIZONTAL
2	2799.00	51.60	28.74	39.80	1.82	0.77	43.13	74.00	-30.87	Peak	HORIZONTAL
3	4108.00	49.43	31.19	40.22	2.16	0.87	43.43	74.00	-30.57	Peak	HORIZONTAL
4	6404.00	47.77	34.97	40.18	3.22	1.06	46.84	74.00	-27.16	Peak	HORIZONTAL
5	7132.00	48.38	36.11	39.71	3.05	0.96	48.79	74.00	-25.21	Peak	HORIZONTAL
6	7832.00	48.19	36.80	39.78	3.17	1.14	49.52	74.00	-24.48	Peak	HORIZONTAL

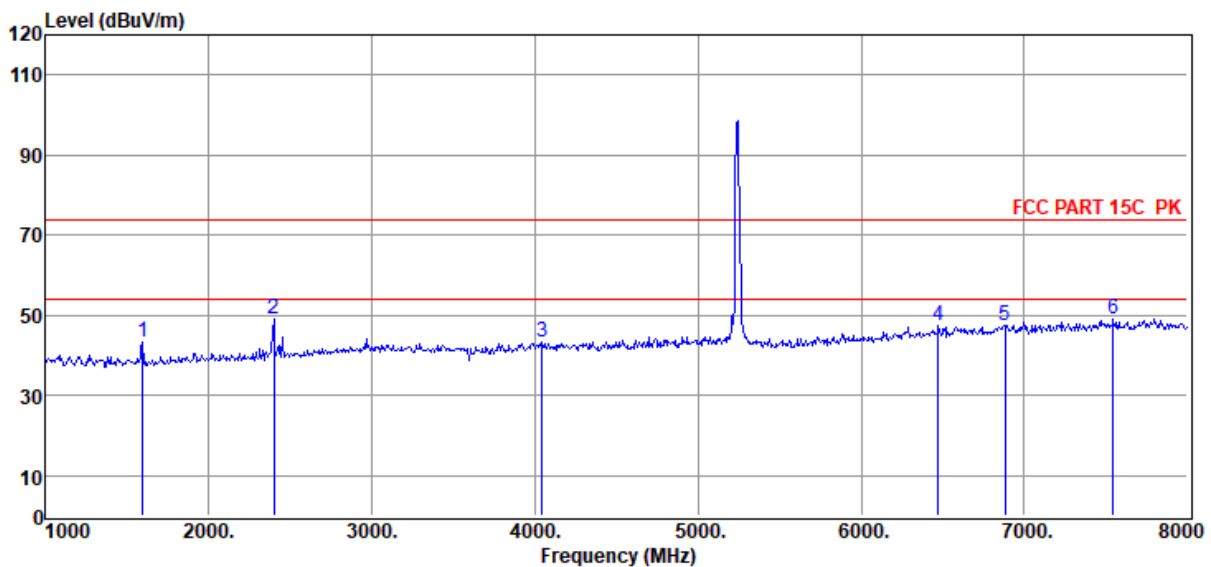
- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5240

Data: 28



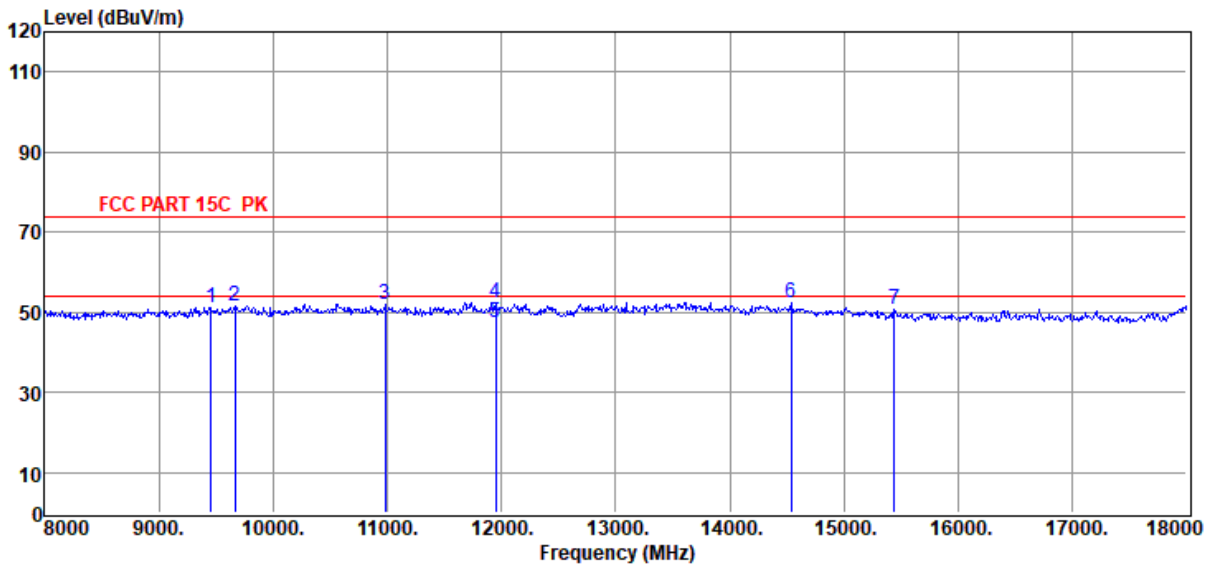
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	54.45	25.65	38.79	1.42	0.61	43.34	74.00	-30.66	Peak	VERTICAL
2	2400.00	58.91	27.42	39.60	1.71	0.72	49.16	74.00	-24.84	Peak	VERTICAL
3	4045.00	49.22	31.14	40.21	2.13	0.86	43.14	74.00	-30.86	Peak	VERTICAL
4	6474.00	47.90	35.14	40.12	3.26	1.04	47.22	74.00	-26.78	Peak	VERTICAL
5	6880.00	47.49	35.81	39.80	3.08	0.96	47.54	74.00	-26.46	Peak	VERTICAL
6	7545.00	48.24	36.45	39.75	3.14	1.07	49.15	74.00	-24.85	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5240

Data: 29



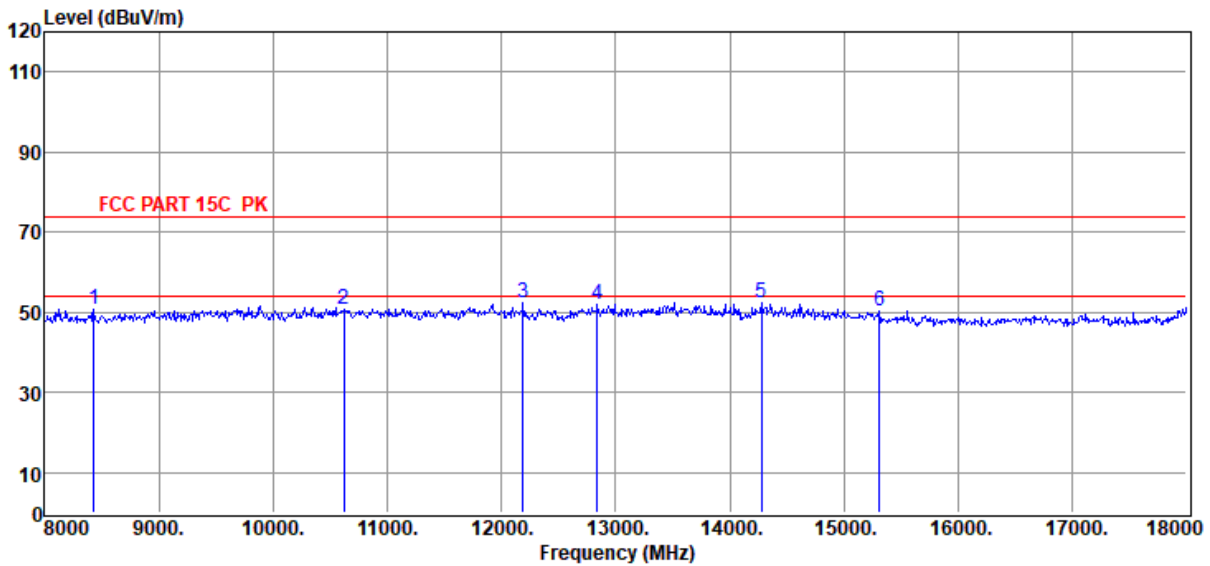
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9460.00	46.25	38.67	40.22	3.60	2.91	51.21	74.00	-22.79	Peak	HORIZONTAL
2	9670.00	46.64	38.60	40.37	3.64	2.96	51.47	74.00	-22.53	Peak	HORIZONTAL
3	10980.00	46.47	39.29	40.21	3.79	2.63	51.97	74.00	-22.03	Peak	HORIZONTAL
4	11950.00	47.05	39.18	40.10	4.04	2.38	52.55	74.00	-21.45	Peak	HORIZONTAL
5	11950.00	41.92	39.18	40.10	4.04	2.38	47.42	54.00	-6.58	Average	HORIZONTAL
6	14540.00	45.06	39.87	39.65	4.36	2.53	52.17	74.00	-21.83	Peak	HORIZONTAL
7	15440.00	44.54	38.88	39.73	4.55	2.48	50.72	74.00	-23.28	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5240

Data: 30



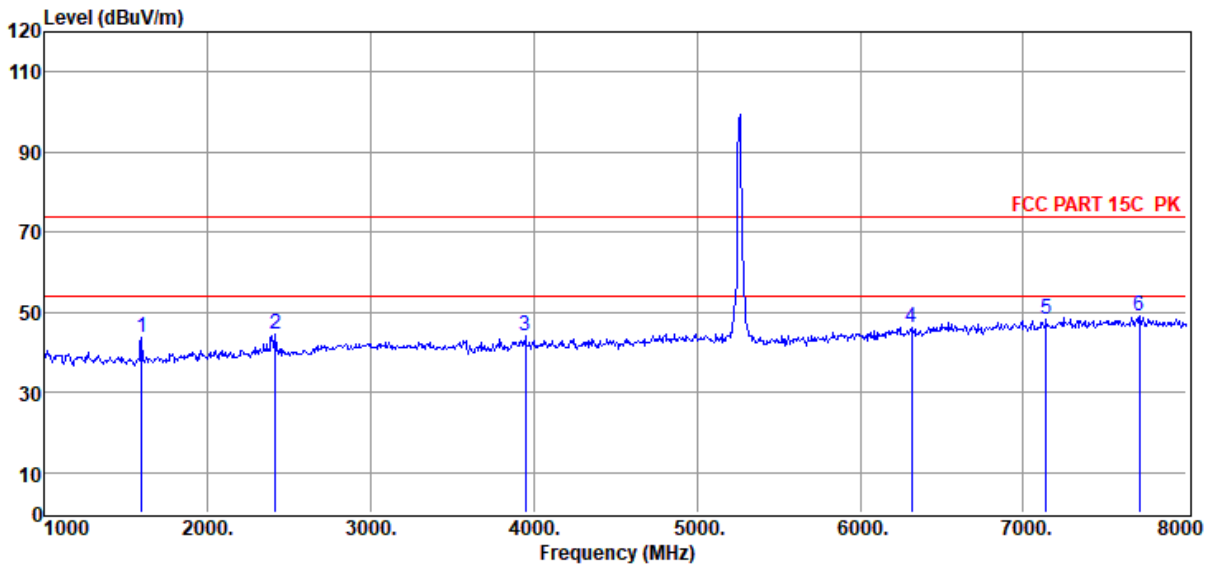
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8430.00	46.72	37.69	39.84	3.22	2.75	50.54	74.00	-23.46	Peak	VERTICAL
2	10620.00	45.67	39.07	40.35	3.70	2.78	50.87	74.00	-23.13	Peak	VERTICAL
3	12190.00	46.98	39.12	40.16	3.92	2.42	52.28	74.00	-21.72	Peak	VERTICAL
4	12840.00	46.00	39.41	40.35	4.18	2.61	51.85	74.00	-22.15	Peak	VERTICAL
5	14280.00	44.97	39.90	39.67	4.43	2.61	52.24	74.00	-21.76	Peak	VERTICAL
6	15310.00	43.81	39.07	39.69	4.53	2.46	50.18	74.00	-23.82	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5260

Data: 32



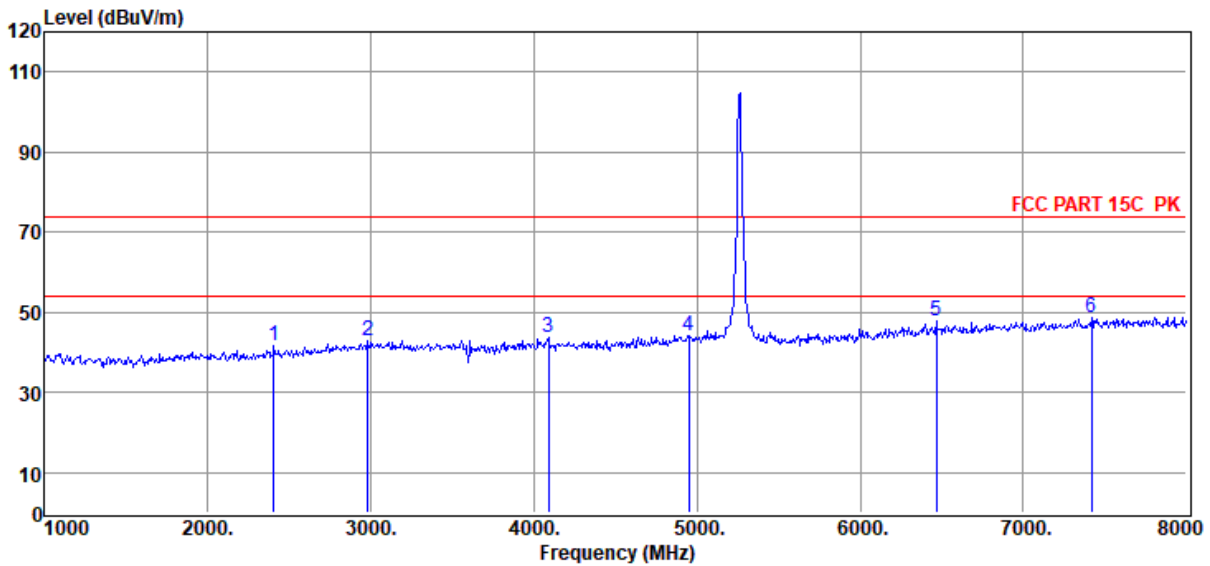
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	54.73	25.65	38.79	1.42	0.61	43.62	74.00	-30.38	Peak	VERTICAL
2	2414.00	54.12	27.45	39.61	1.72	0.73	44.41	74.00	-29.59	Peak	VERTICAL
3	3947.00	50.33	30.92	40.18	2.07	0.86	44.00	74.00	-30.00	Peak	VERTICAL
4	6313.00	47.56	34.75	40.25	3.18	1.07	46.31	74.00	-27.69	Peak	VERTICAL
5	7139.00	47.67	36.11	39.71	3.05	0.96	48.08	74.00	-25.92	Peak	VERTICAL
6	7713.00	47.76	36.66	39.77	3.16	1.11	48.92	74.00	-25.08	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5260

Data: 33



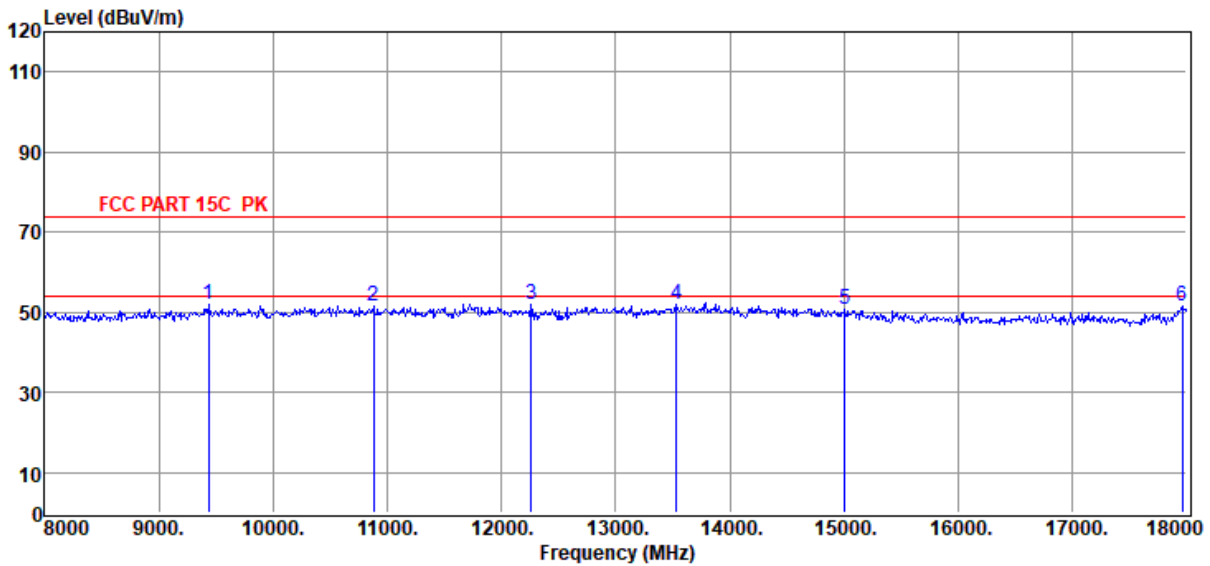
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2407.00	51.22	27.43	39.60	1.71	0.72	41.48	74.00	-32.52	Peak	HORIZONTAL
2	2981.00	50.66	29.43	39.89	1.87	0.79	42.86	74.00	-31.14	Peak	HORIZONTAL
3	4087.00	49.60	31.17	40.22	2.15	0.86	43.56	74.00	-30.44	Peak	HORIZONTAL
4	4948.00	48.32	32.93	40.39	2.52	0.91	44.29	74.00	-29.71	Peak	HORIZONTAL
5	6467.00	48.39	35.12	40.13	3.25	1.04	47.67	74.00	-26.33	Peak	HORIZONTAL
6	7419.00	48.05	36.34	39.74	3.12	1.03	48.80	74.00	-25.20	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# **D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6**  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5260

Data: 34



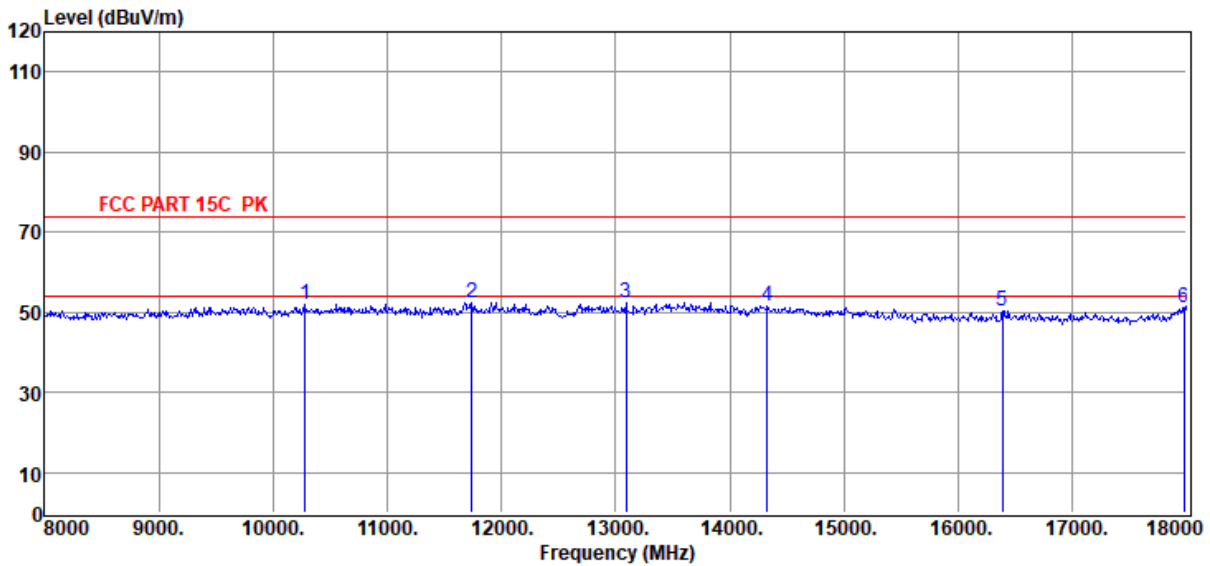
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9440.00	47.11	38.65	40.21	3.59	2.91	52.05	74.00	-21.95	Peak	VERTICAL
2	10880.00	45.99	39.23	40.25	3.77	2.67	51.41	74.00	-22.59	Peak	VERTICAL
3	12260.00	46.55	39.10	40.18	3.87	2.44	51.78	74.00	-22.22	Peak	VERTICAL
4	13530.00	45.11	39.99	40.03	4.02	2.67	51.76	74.00	-22.24	Peak	VERTICAL
5	15010.00	44.17	39.49	39.60	4.47	2.39	50.92	74.00	-23.08	Peak	VERTICAL
6	17960.00	42.19	42.25	40.68	4.95	2.64	51.35	74.00	-22.65	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5260

Data: 31



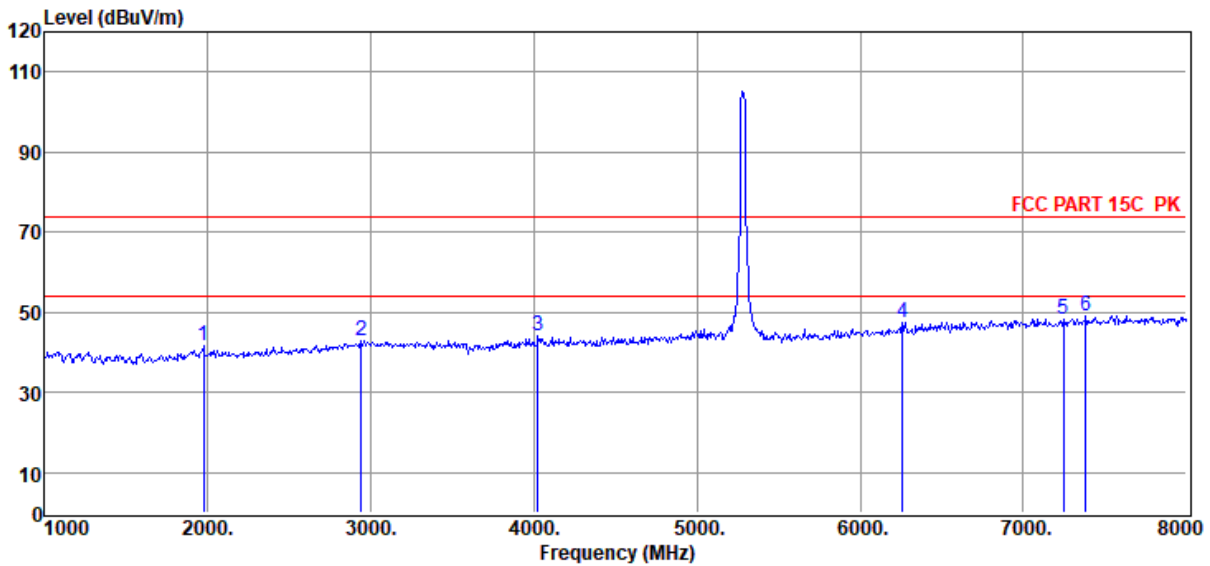
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	10280.00	47.04	38.74	40.49	3.67	2.92	51.88	74.00	-22.12	Peak	HORIZONTAL
2	11740.00	46.86	39.10	40.13	4.01	2.43	52.27	74.00	-21.73	Peak	HORIZONTAL
3	13090.00	45.91	39.67	40.34	4.33	2.65	52.22	74.00	-21.78	Peak	HORIZONTAL
4	14330.00	44.52	39.90	39.67	4.41	2.59	51.75	74.00	-22.25	Peak	HORIZONTAL
5	16390.00	44.96	37.90	39.98	4.70	2.91	50.49	74.00	-23.51	Peak	HORIZONTAL
6	17980.00	42.02	42.38	40.69	4.95	2.63	51.29	74.00	-22.71	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5280

Data: 35



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1973.00	51.98	26.63	39.36	1.59	0.68	41.52	74.00	-32.48	Peak	HORIZONTAL
2	2939.00	50.93	29.27	39.87	1.85	0.78	42.96	74.00	-31.04	Peak	HORIZONTAL
3	4024.00	50.18	31.12	40.20	2.12	0.86	44.08	74.00	-29.92	Peak	HORIZONTAL
4	6257.00	49.00	34.62	40.29	3.15	1.09	47.57	74.00	-26.43	Peak	HORIZONTAL
5	7244.00	47.82	36.20	39.72	3.08	0.99	48.37	74.00	-25.63	Peak	HORIZONTAL
6	7384.00	48.55	36.31	39.74	3.11	1.03	49.26	74.00	-24.74	Peak	HORIZONTAL

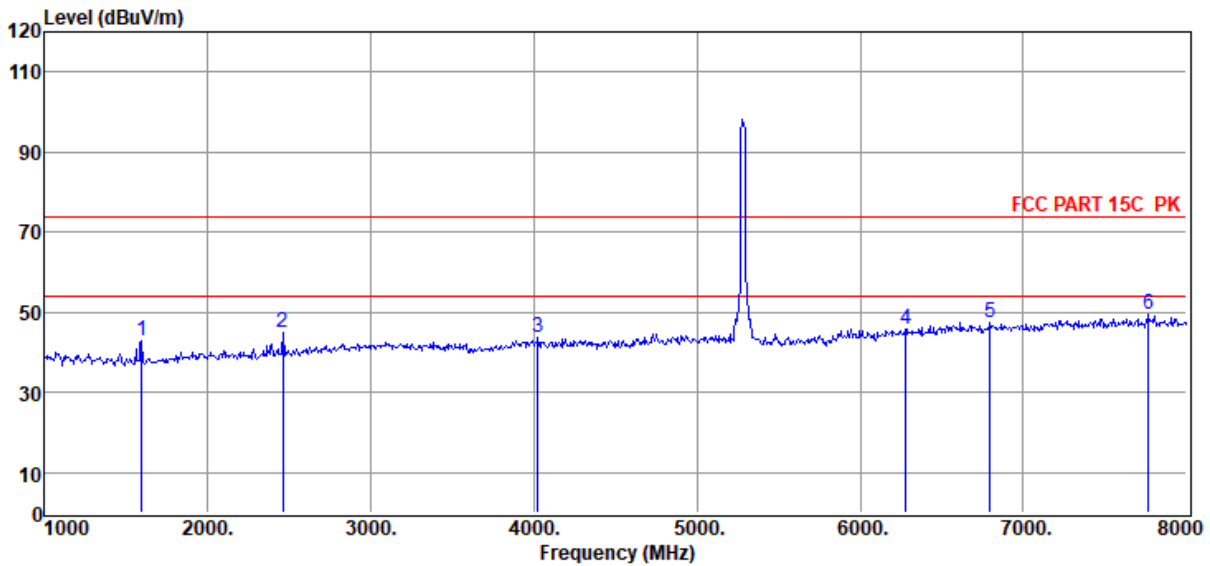
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5280

Data: 36



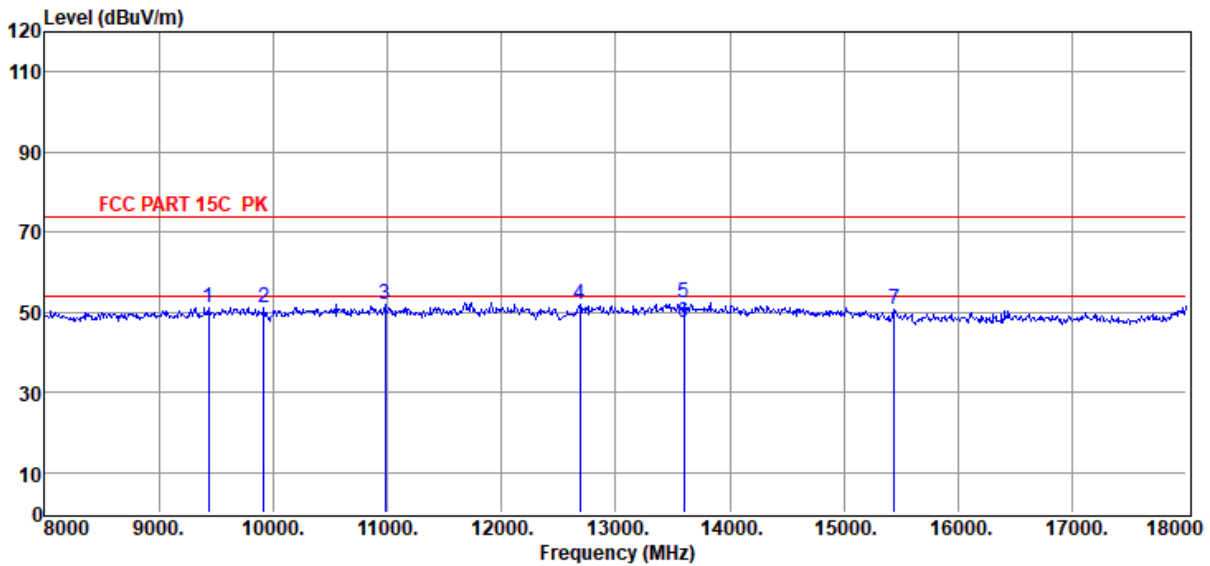
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	53.92	25.65	38.79	1.42	0.61	42.81	74.00	-31.19	Peak	VERTICAL
2	2463.00	54.40	27.53	39.63	1.73	0.73	44.76	74.00	-29.24	Peak	VERTICAL
3	4024.00	49.73	31.12	40.20	2.12	0.86	43.63	74.00	-30.37	Peak	VERTICAL
4	6278.00	47.21	34.67	40.28	3.16	1.08	45.84	74.00	-28.16	Peak	VERTICAL
5	6796.00	47.47	35.67	39.86	3.12	0.97	47.37	74.00	-26.63	Peak	VERTICAL
6	7769.00	48.41	36.72	39.78	3.17	1.12	49.64	74.00	-24.36	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5280

Data: 37



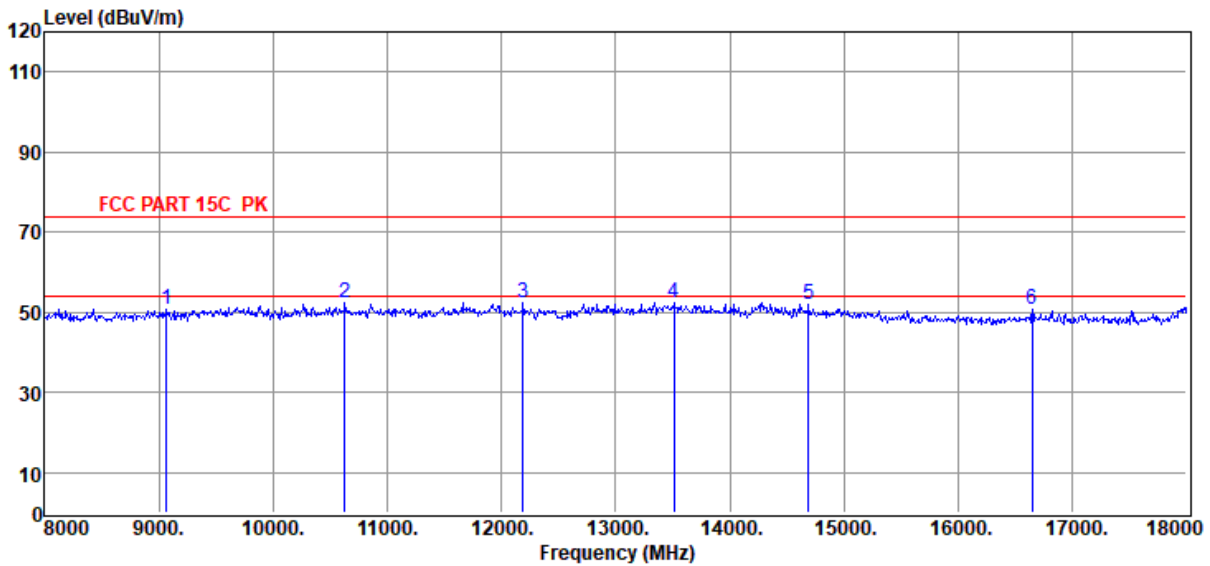
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9440.00	46.19	38.65	40.21	3.59	2.91	51.13	74.00	-22.87	Peak	HORIZONTAL
2	9920.00	46.68	38.45	40.54	3.66	3.02	51.27	74.00	-22.73	Peak	HORIZONTAL
3	10980.00	46.47	39.29	40.21	3.79	2.63	51.97	74.00	-22.03	Peak	HORIZONTAL
4	12690.00	46.55	39.23	40.31	3.97	2.56	52.00	74.00	-22.00	Peak	HORIZONTAL
5	13600.00	45.63	39.98	39.98	4.10	2.67	52.40	74.00	-21.60	Peak	HORIZONTAL
6	13600.00	40.56	39.98	39.98	4.10	2.67	47.33	54.00	-6.67	Average	HORIZONTAL
7	15440.00	44.54	38.88	39.73	4.55	2.48	50.72	74.00	-23.28	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5280

Data: 38



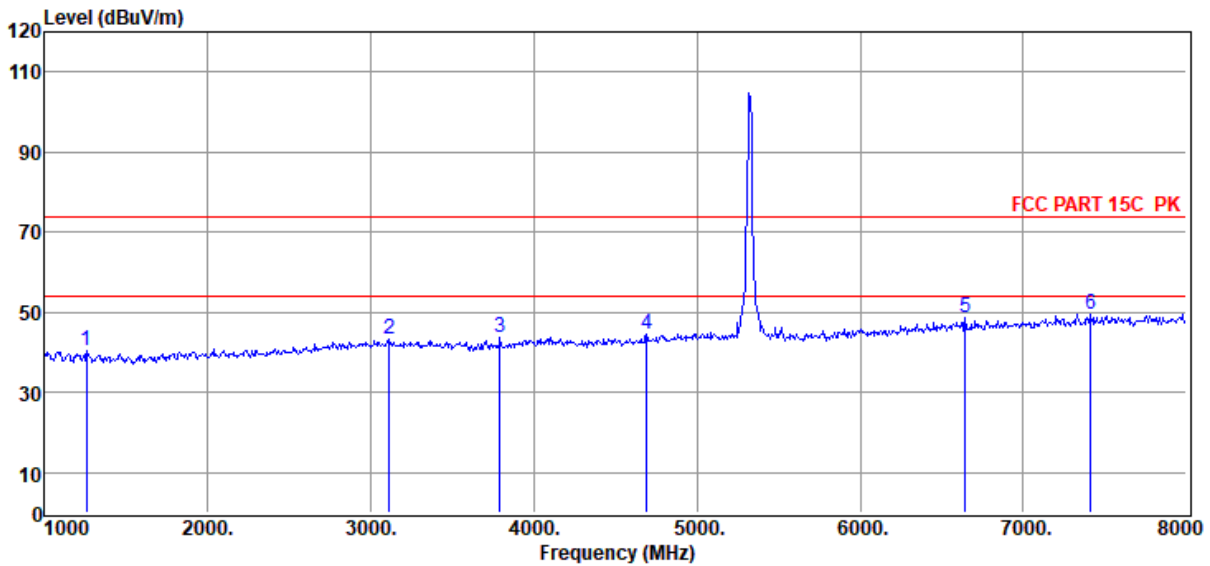
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9070.00	46.06	38.36	39.95	3.37	2.82	50.66	74.00	-23.34	Peak	VERTICAL
2	10630.00	47.34	39.08	40.35	3.70	2.78	52.55	74.00	-21.45	Peak	VERTICAL
3	12190.00	46.98	39.12	40.16	3.92	2.42	52.28	74.00	-21.72	Peak	VERTICAL
4	13510.00	45.79	40.00	40.04	4.00	2.67	52.42	74.00	-21.58	Peak	VERTICAL
5	14690.00	44.79	39.75	39.63	4.40	2.48	51.79	74.00	-22.21	Peak	VERTICAL
6	16650.00	44.69	38.08	40.03	4.72	3.11	50.57	74.00	-23.43	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5320

Data: 39



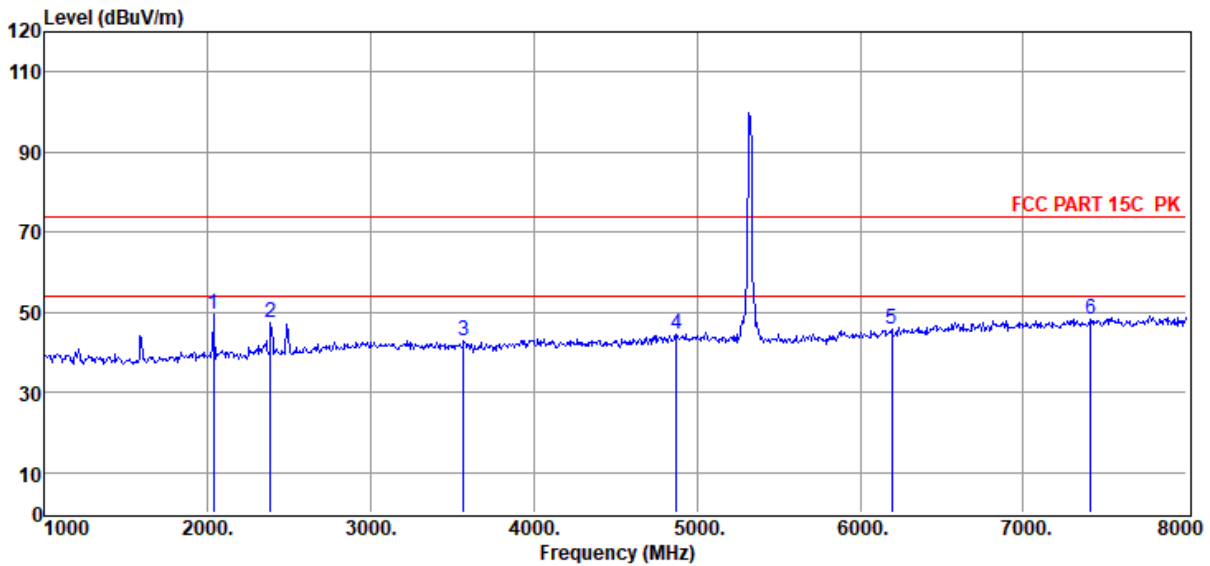
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1259.00	51.38	25.45	38.29	1.25	0.55	40.34	74.00	-33.66	Peak	HORIZONTAL
2	3114.00	50.93	29.48	39.93	1.83	0.80	43.11	74.00	-30.89	Peak	HORIZONTAL
3	3793.00	50.63	30.40	40.14	1.94	0.85	43.68	74.00	-30.32	Peak	HORIZONTAL
4	4689.00	49.26	32.10	40.34	2.43	0.89	44.34	74.00	-29.66	Peak	HORIZONTAL
5	6642.00	49.19	35.43	39.99	3.20	1.01	48.84	74.00	-25.16	Peak	HORIZONTAL
6	7412.00	48.61	36.33	39.74	3.12	1.03	49.35	74.00	-24.65	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5320

Data: 40



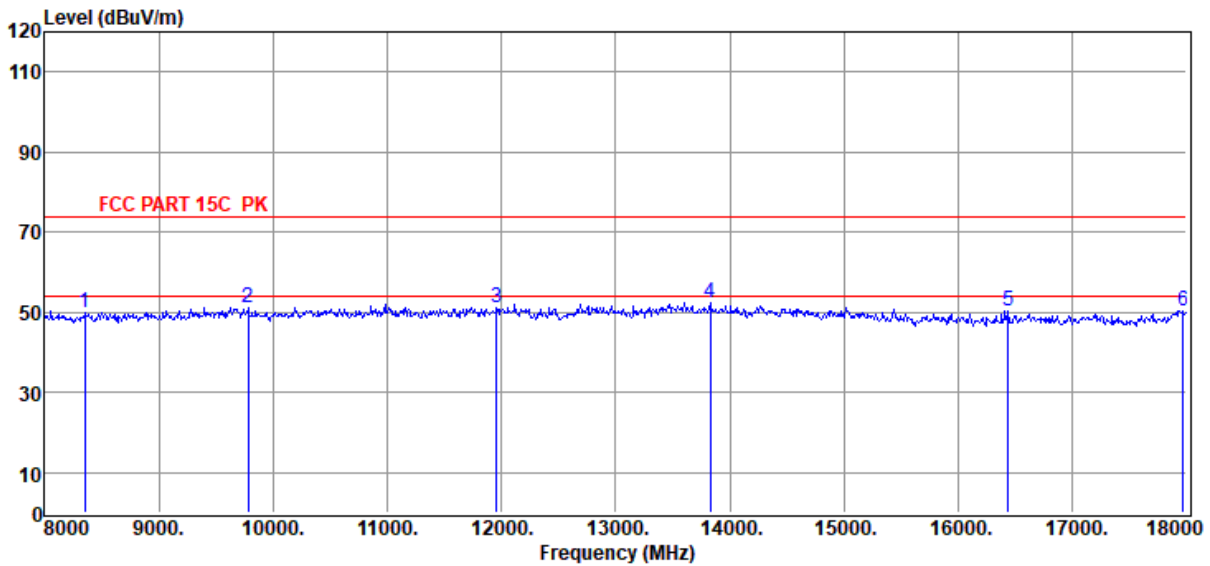
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2036.00	59.96	26.76	39.42	1.61	0.68	49.59	74.00	-24.41	Peak	VERTICAL
2	2386.00	57.13	27.39	39.59	1.71	0.72	47.36	74.00	-26.64	Peak	VERTICAL
3	3569.00	50.60	29.63	40.07	1.75	0.83	42.74	74.00	-31.26	Peak	VERTICAL
4	4871.00	49.00	32.69	40.37	2.49	0.90	44.71	74.00	-29.29	Peak	VERTICAL
5	6194.00	47.60	34.47	40.34	3.12	1.10	45.95	74.00	-28.05	Peak	VERTICAL
6	7412.00	47.56	36.33	39.74	3.12	1.03	48.30	74.00	-25.70	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5320

Data: 41



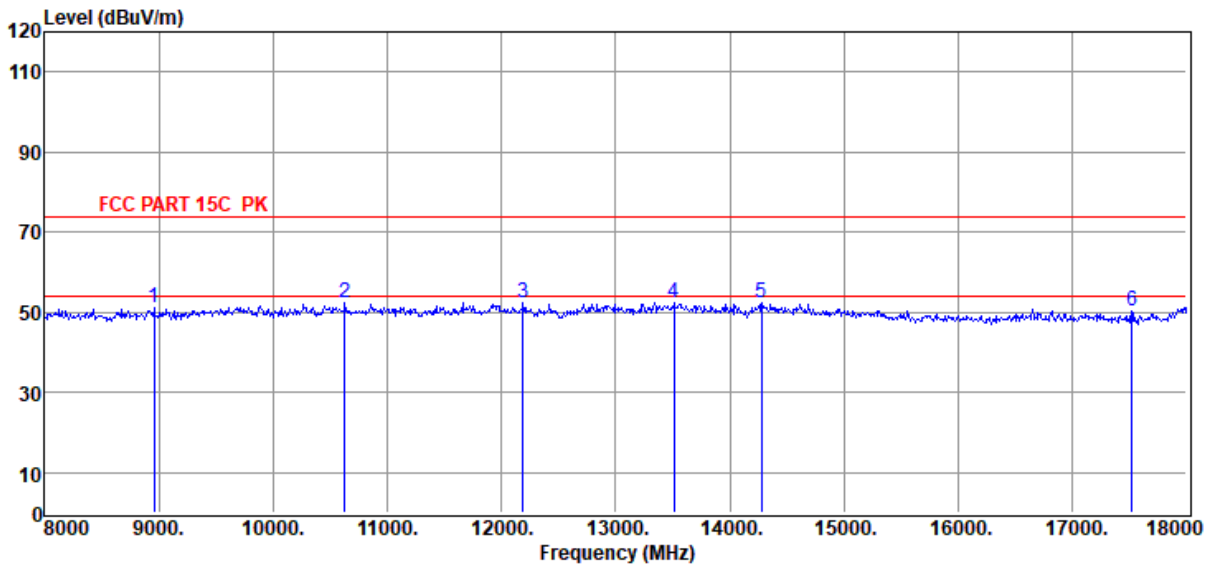
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8350.00	46.26	37.56	39.83	3.21	2.75	49.95	74.00	-24.05	Peak	HORIZONTAL
2	9780.00	46.47	38.53	40.45	3.65	2.99	51.19	74.00	-22.81	Peak	HORIZONTAL
3	11960.00	45.84	39.18	40.10	4.04	2.38	51.34	74.00	-22.66	Peak	HORIZONTAL
4	13830.00	45.07	39.93	39.82	4.35	2.68	52.21	74.00	-21.79	Peak	HORIZONTAL
5	16440.00	44.55	37.90	39.99	4.71	2.95	50.12	74.00	-23.88	Peak	HORIZONTAL
6	17970.00	41.24	42.31	40.68	4.95	2.63	50.45	74.00	-23.55	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5320

Data: 42



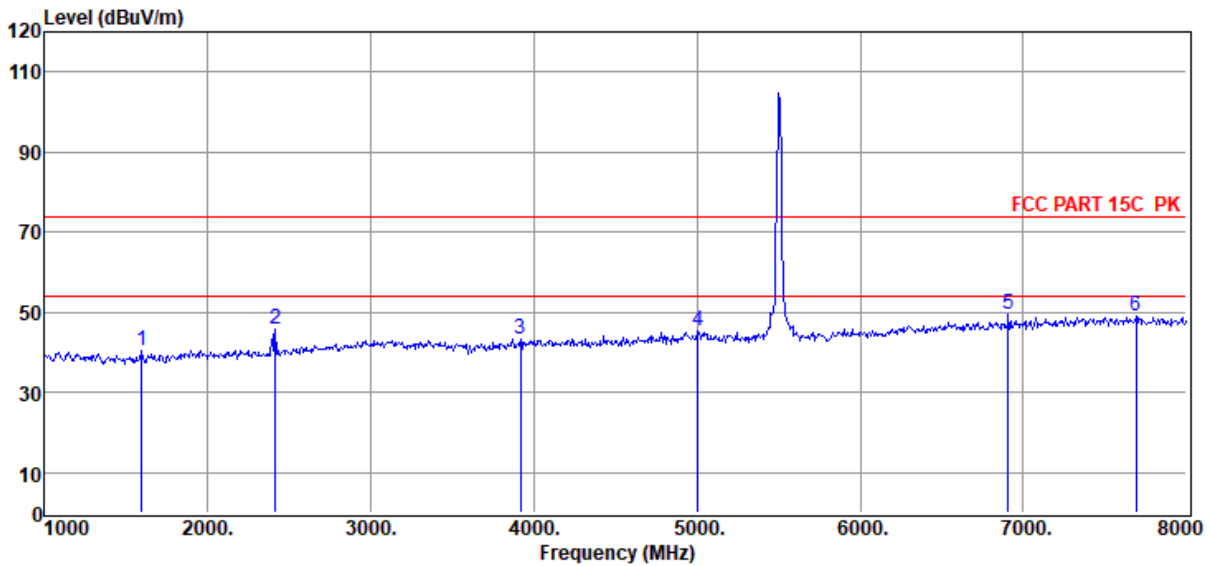
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8960.00	46.80	38.26	39.90	3.32	2.80	51.28	74.00	-22.72	Peak	VERTICAL
2	10630.00	47.34	39.08	40.35	3.70	2.78	52.55	74.00	-21.45	Peak	VERTICAL
3	12190.00	46.98	39.12	40.16	3.92	2.42	52.28	74.00	-21.72	Peak	VERTICAL
4	13510.00	45.79	40.00	40.04	4.00	2.67	52.42	74.00	-21.58	Peak	VERTICAL
5	14280.00	44.97	39.90	39.67	4.43	2.61	52.24	74.00	-21.76	Peak	VERTICAL
6	17520.00	43.34	39.52	40.41	4.83	2.98	50.26	74.00	-23.74	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5500

Data: 43



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	51.69	25.65	38.79	1.42	0.61	40.58	74.00	-33.42	Peak	HORIZONTAL
2	2414.00	55.44	27.45	39.61	1.72	0.73	45.73	74.00	-28.27	Peak	HORIZONTAL
3	3919.00	49.87	30.82	40.18	2.04	0.85	43.40	74.00	-30.60	Peak	HORIZONTAL
4	5004.00	49.12	33.10	40.40	2.54	0.91	45.27	74.00	-28.73	Peak	HORIZONTAL
5	6908.00	49.37	35.85	39.77	3.07	0.95	49.47	74.00	-24.53	Peak	HORIZONTAL
6	7692.00	47.84	36.63	39.77	3.16	1.10	48.96	74.00	-25.04	Peak	HORIZONTAL

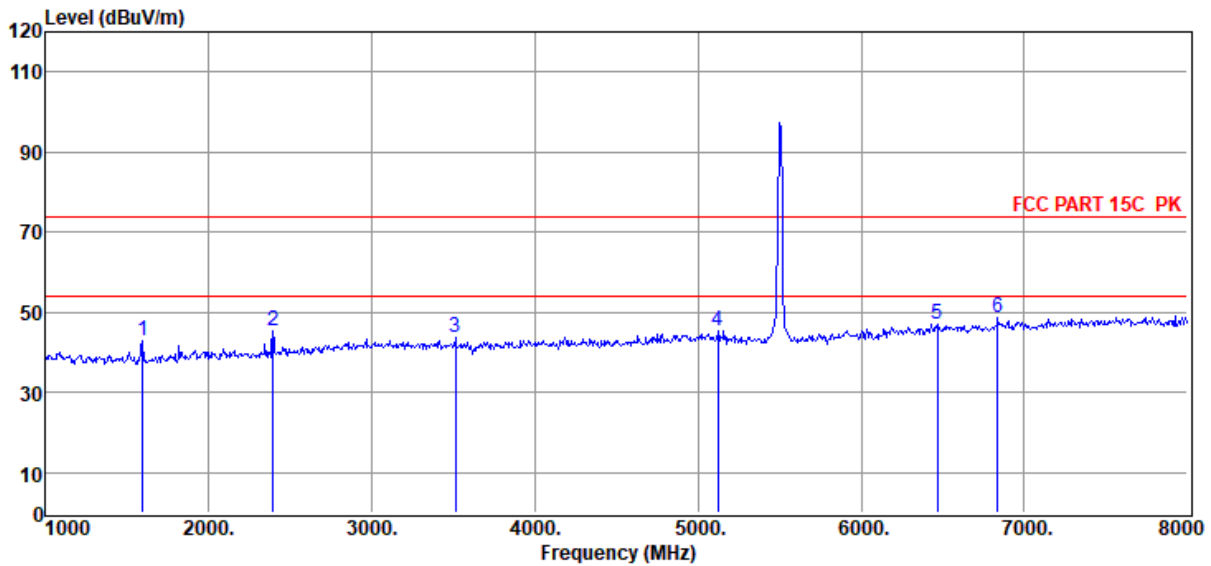
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5500

Data: 44



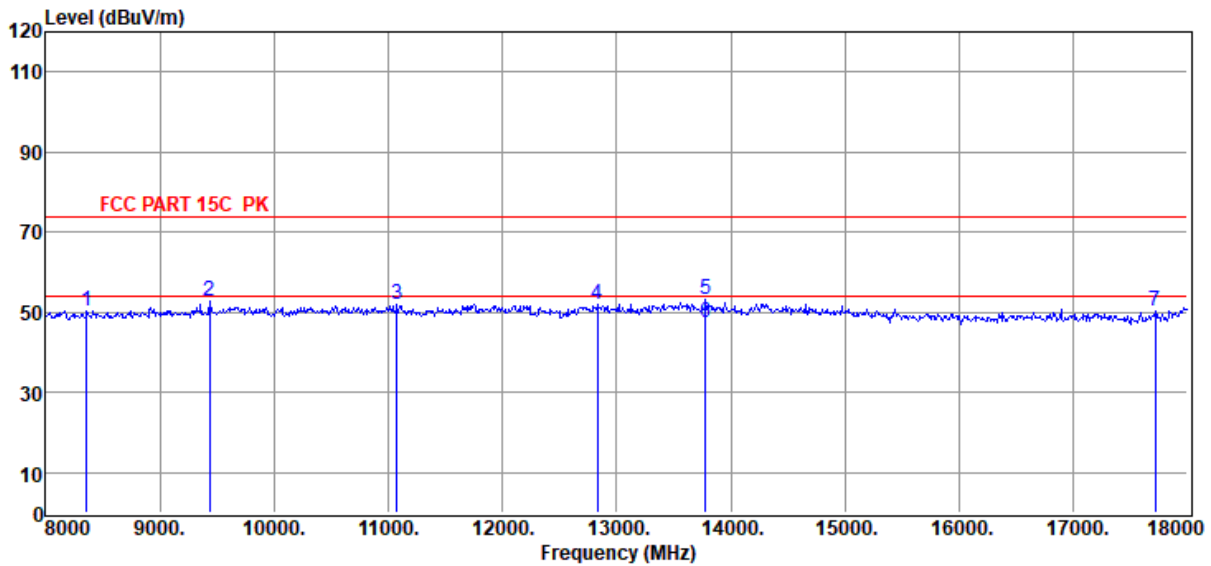
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	53.86	25.65	38.79	1.42	0.61	42.75	74.00	-31.25	Peak	VERTICAL
2	2393.00	55.19	27.41	39.60	1.71	0.72	45.43	74.00	-28.57	Peak	VERTICAL
3	3513.00	52.00	29.44	40.05	1.70	0.83	43.92	74.00	-30.08	Peak	VERTICAL
4	5123.00	49.38	33.03	40.41	2.55	0.94	45.49	74.00	-28.51	Peak	VERTICAL
5	6467.00	47.81	35.12	40.13	3.25	1.04	47.09	74.00	-26.91	Peak	VERTICAL
6	6838.00	48.57	35.74	39.83	3.10	0.96	48.54	74.00	-25.46	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5500

Data: 45



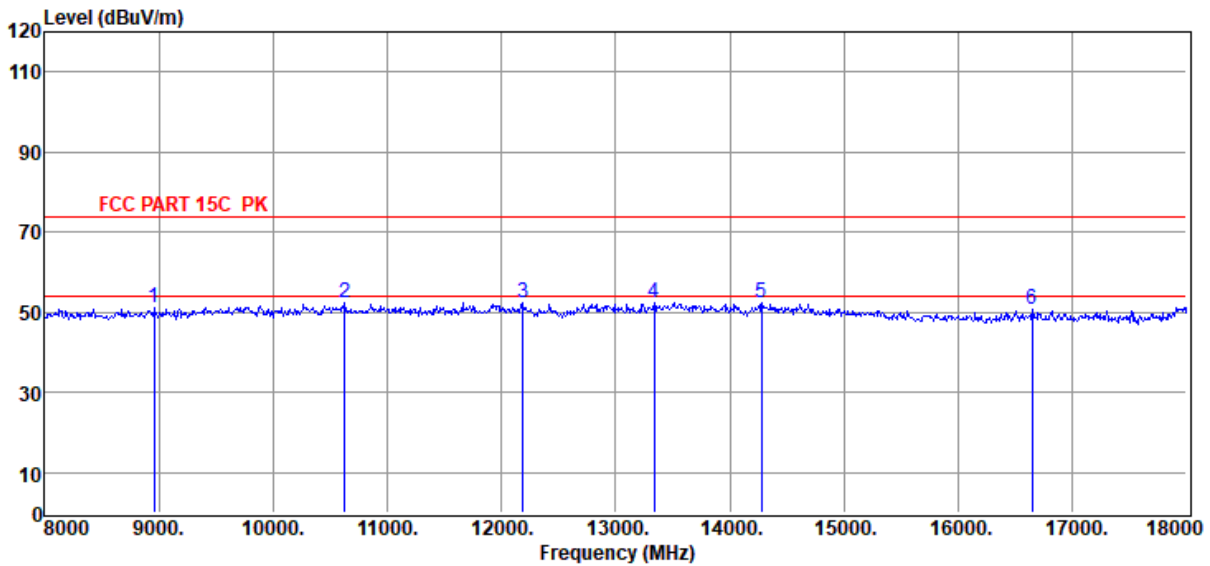
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8360.00	46.46	37.58	39.84	3.21	2.75	50.16	74.00	-23.84	Peak	HORIZONTAL
2	9440.00	47.80	38.65	40.21	3.59	2.91	52.74	74.00	-21.26	Peak	HORIZONTAL
3	11080.00	46.31	39.25	40.19	3.83	2.60	51.80	74.00	-22.20	Peak	HORIZONTAL
4	12830.00	46.15	39.40	40.35	4.17	2.60	51.97	74.00	-22.03	Peak	HORIZONTAL
5	13780.00	45.93	39.94	39.85	4.29	2.68	52.99	74.00	-21.01	Peak	HORIZONTAL
6	13780.00	40.22	39.94	39.85	4.29	2.68	47.28	54.00	-6.72	Average	HORIZONTAL
7	17720.00	42.50	40.76	40.53	4.88	2.83	50.44	74.00	-23.56	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5500

Data: 46



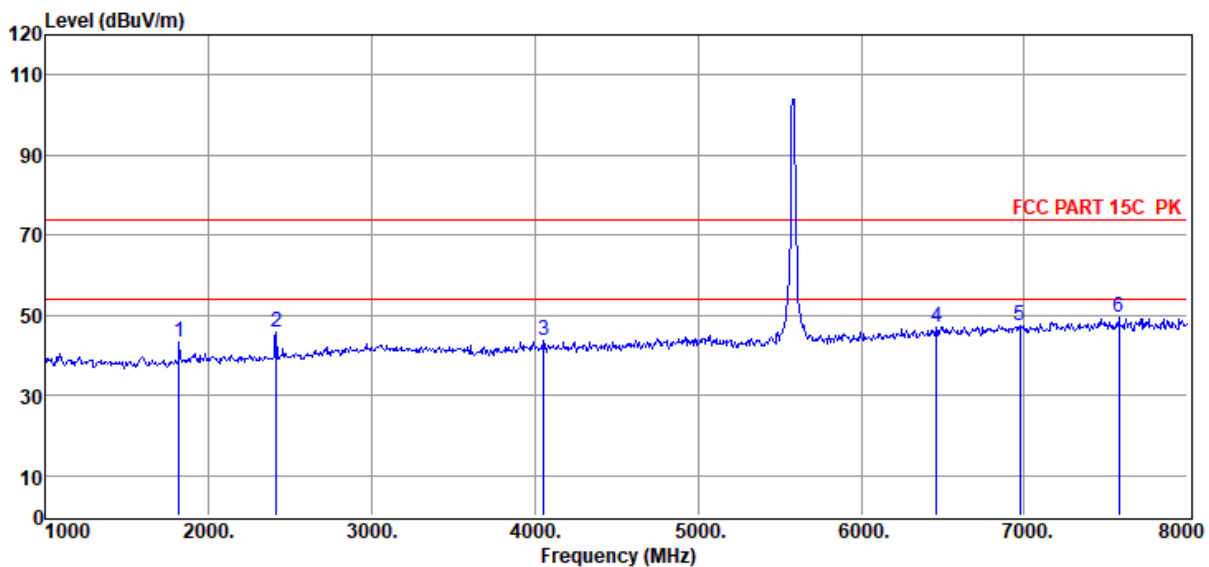
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8960.00	46.80	38.26	39.90	3.32	2.80	51.28	74.00	-22.72	Peak	VERTICAL
2	10630.00	47.34	39.08	40.35	3.70	2.78	52.55	74.00	-21.45	Peak	VERTICAL
3	12190.00	46.98	39.12	40.16	3.92	2.42	52.28	74.00	-21.72	Peak	VERTICAL
4	13340.00	45.91	39.87	40.16	4.12	2.66	52.40	74.00	-21.60	Peak	VERTICAL
5	14280.00	44.97	39.90	39.67	4.43	2.61	52.24	74.00	-21.76	Peak	VERTICAL
6	16650.00	44.69	38.08	40.03	4.72	3.11	50.57	74.00	-23.43	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5580

Data: 47



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1819.00	53.95	26.23	39.13	1.52	0.65	43.22	74.00	-30.78	Peak	HORIZONTAL
2	2414.00	55.63	27.45	39.61	1.72	0.73	45.92	74.00	-28.08	Peak	HORIZONTAL
3	4052.00	49.73	31.14	40.21	2.14	0.86	43.66	74.00	-30.34	Peak	HORIZONTAL
4	6460.00	47.92	35.10	40.13	3.25	1.04	47.18	74.00	-26.82	Peak	HORIZONTAL
5	6971.00	47.35	35.95	39.72	3.03	0.94	47.55	74.00	-26.45	Peak	HORIZONTAL
6	7580.00	48.65	36.50	39.76	3.15	1.07	49.61	74.00	-24.39	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6

**Test Date** : 2022-08-05

**Tested By** : Bairong

**EUT** : ACTIVE WIRELESS SPEAKER

**Model Number** : VIFA013

**Power Supply** : AC 120V/60Hz

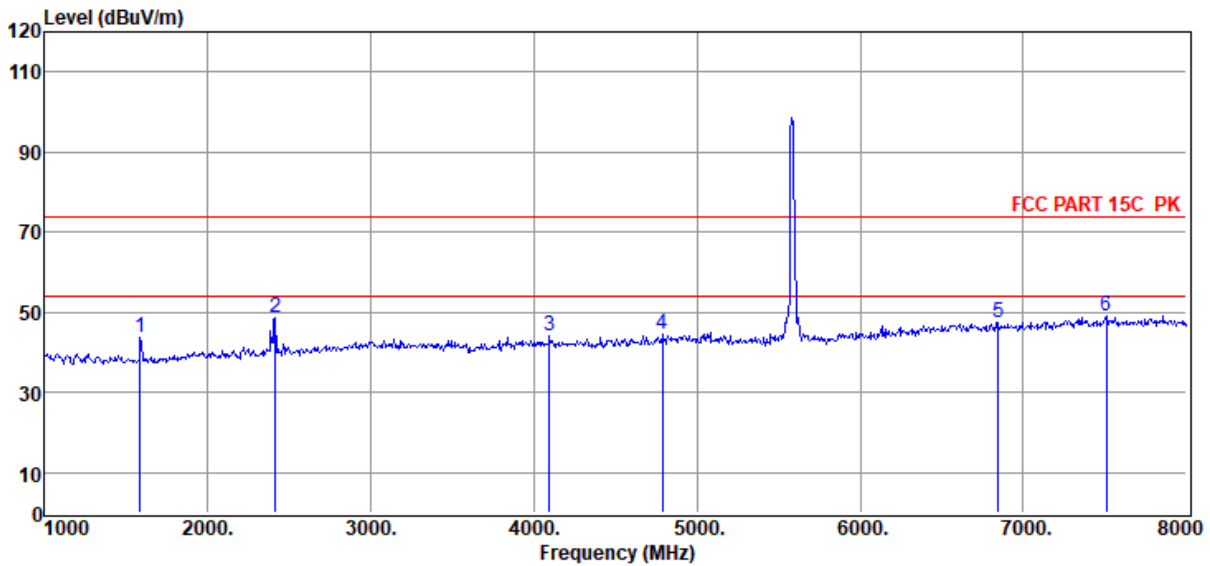
**Test Mode** : Tx mode

**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

**Memo** : 11A 5580

Data: 48



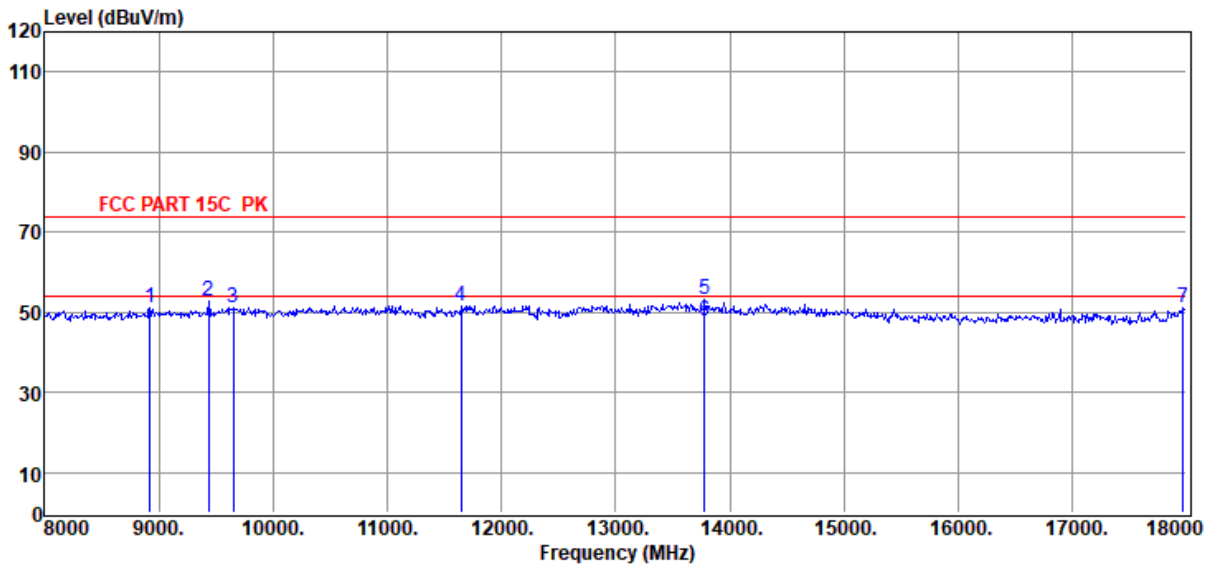
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1588.00	54.90	25.63	38.78	1.42	0.61	43.78	74.00	-30.22	Peak	VERTICAL
2	2414.00	58.18	27.45	39.61	1.72	0.73	48.47	74.00	-25.53	Peak	VERTICAL
3	4094.00	50.14	31.18	40.22	2.16	0.86	44.12	74.00	-29.88	Peak	VERTICAL
4	4787.00	49.17	32.42	40.36	2.46	0.90	44.59	74.00	-29.41	Peak	VERTICAL
5	6845.00	47.38	35.75	39.82	3.10	0.96	47.37	74.00	-26.63	Peak	VERTICAL
6	7510.00	48.10	36.41	39.75	3.14	1.06	48.96	74.00	-25.04	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5580

Data: 49



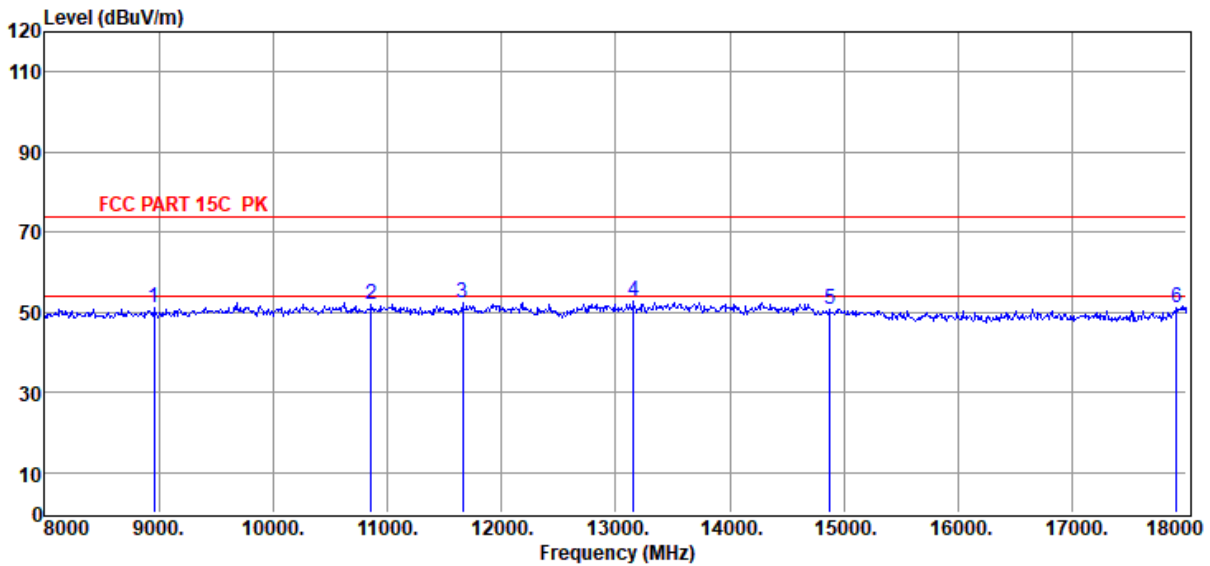
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8920.00	46.84	38.22	39.89	3.31	2.79	51.27	74.00	-22.73	Peak	HORIZONTAL
2	9440.00	47.80	38.65	40.21	3.59	2.91	52.74	74.00	-21.26	Peak	HORIZONTAL
3	9650.00	46.29	38.61	40.35	3.63	2.96	51.14	74.00	-22.86	Peak	HORIZONTAL
4	11650.00	46.36	39.06	40.13	3.99	2.46	51.74	74.00	-22.26	Peak	HORIZONTAL
5	13780.00	45.93	39.94	39.85	4.29	2.68	52.99	74.00	-21.01	Peak	HORIZONTAL
6	13780.00	40.63	39.94	39.85	4.29	2.68	47.69	54.00	-6.31	Average	HORIZONTAL
7	17970.00	41.86	42.31	40.68	4.95	2.63	51.07	74.00	-22.93	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5580

Data: 50



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8960.00	46.80	38.26	39.90	3.32	2.80	51.28	74.00	-22.72	Peak	VERTICAL
2	10860.00	46.54	39.22	40.26	3.76	2.68	51.94	74.00	-22.06	Peak	VERTICAL
3	11660.00	46.80	39.06	40.13	4.00	2.45	52.18	74.00	-21.82	Peak	VERTICAL
4	13160.00	46.42	39.73	40.29	4.27	2.66	52.79	74.00	-21.21	Peak	VERTICAL
5	14880.00	44.03	39.60	39.61	4.44	2.43	50.89	74.00	-23.11	Peak	VERTICAL
6	17910.00	42.25	41.94	40.65	4.93	2.68	51.15	74.00	-22.85	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6

**Test Date** : 2022-08-05

**Tested By** : Bairong

**EUT** : ACTIVE WIRELESS SPEAKER

**Model Number** : VIFA013

**Power Supply** : AC 120V/60Hz

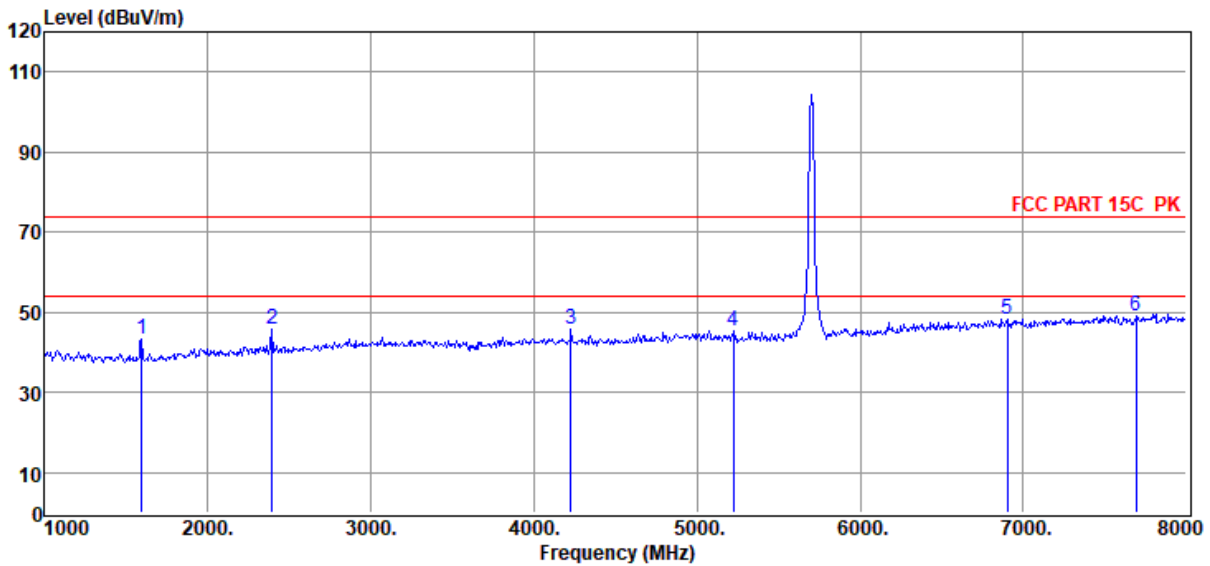
**Test Mode** : Tx mode

**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa

**Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL

**Memo** : 11A 5700

Data: 51



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	54.42	25.65	38.79	1.42	0.61	43.31	74.00	-30.69	Peak	HORIZONTAL
2	2393.00	55.35	27.41	39.60	1.71	0.72	45.59	74.00	-28.41	Peak	HORIZONTAL
3	4227.00	51.69	31.28	40.25	2.22	0.87	45.81	74.00	-28.19	Peak	HORIZONTAL
4	5221.00	49.12	32.97	40.42	2.55	0.96	45.18	74.00	-28.82	Peak	HORIZONTAL
5	6901.00	48.18	35.84	39.78	3.07	0.95	48.26	74.00	-25.74	Peak	HORIZONTAL
6	7692.00	48.08	36.63	39.77	3.16	1.10	49.20	74.00	-24.80	Peak	HORIZONTAL

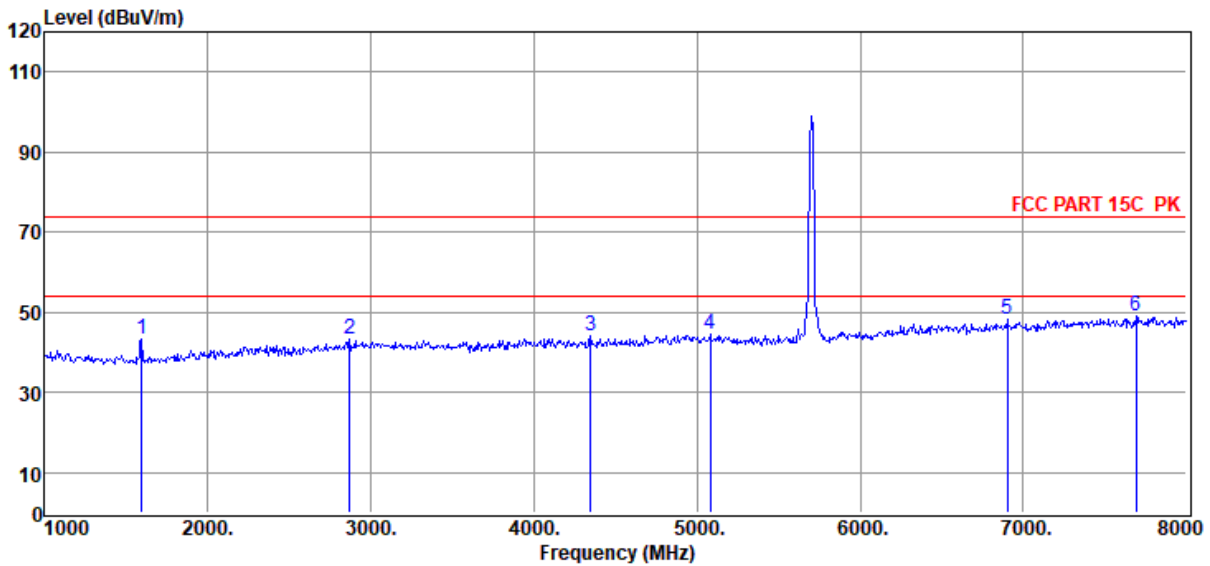
- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5700

Data: 52



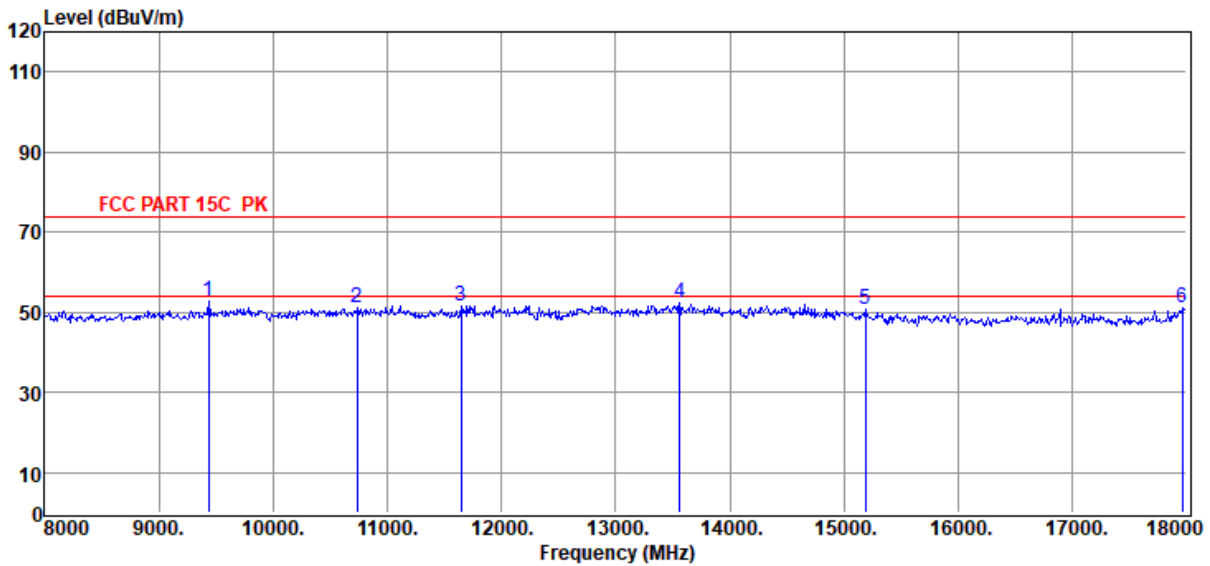
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	54.42	25.65	38.79	1.42	0.61	43.31	74.00	-30.69	Peak	VERTICAL
2	2869.00	51.42	29.00	39.83	1.84	0.78	43.21	74.00	-30.79	Peak	VERTICAL
3	4346.00	49.82	31.38	40.27	2.28	0.88	44.09	74.00	-29.91	Peak	VERTICAL
4	5081.00	48.37	33.05	40.41	2.54	0.93	44.48	74.00	-29.52	Peak	VERTICAL
5	6901.00	48.18	35.84	39.78	3.07	0.95	48.26	74.00	-25.74	Peak	VERTICAL
6	7692.00	48.08	36.63	39.77	3.16	1.10	49.20	74.00	-24.80	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5700

Data: 53



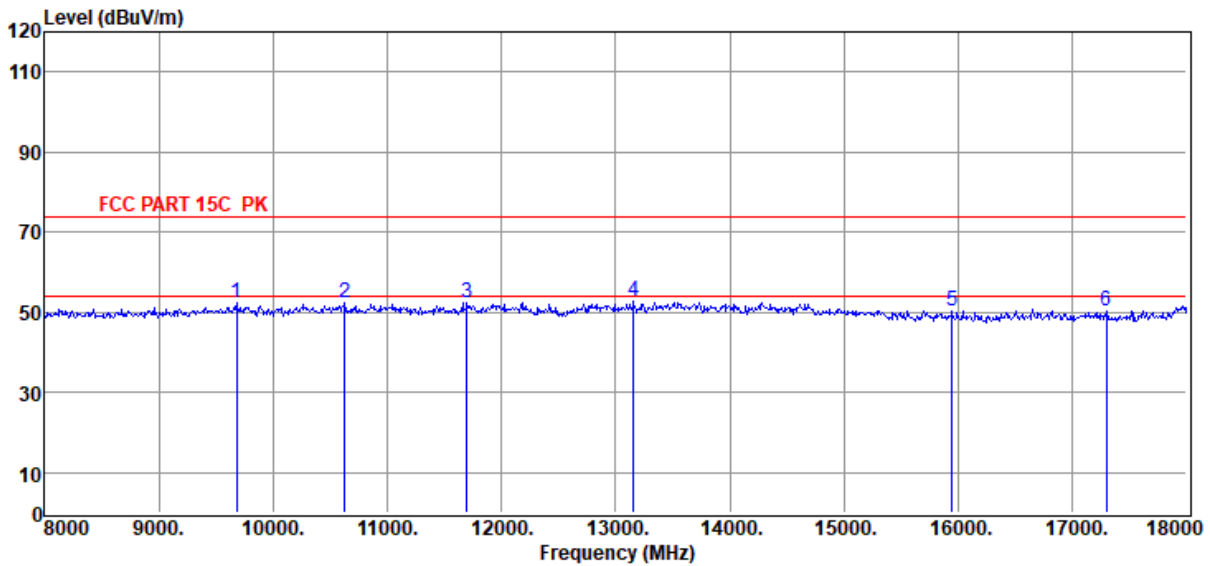
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9440.00	47.80	38.65	40.21	3.59	2.91	52.74	74.00	-21.26	Peak	HORIZONTAL
2	10740.00	45.91	39.14	40.30	3.73	2.73	51.21	74.00	-22.79	Peak	HORIZONTAL
3	11650.00	46.36	39.06	40.13	3.99	2.46	51.74	74.00	-22.26	Peak	HORIZONTAL
4	13560.00	45.85	39.99	40.01	4.05	2.67	52.55	74.00	-21.45	Peak	HORIZONTAL
5	15190.00	44.16	39.23	39.66	4.50	2.43	50.66	74.00	-23.34	Peak	HORIZONTAL
6	17960.00	41.79	42.25	40.68	4.95	2.64	50.95	74.00	-23.05	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5700

Data: 54



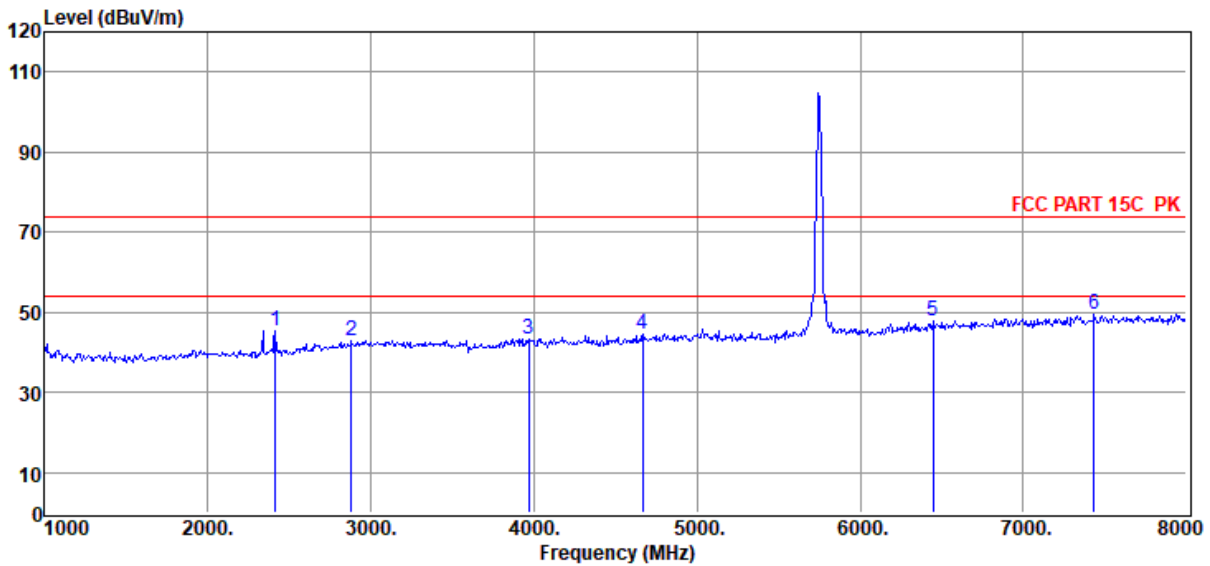
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9680.00	47.63	38.59	40.38	3.64	2.96	52.44	74.00	-21.56	Peak	VERTICAL
2	10630.00	47.34	39.08	40.35	3.70	2.78	52.55	74.00	-21.45	Peak	VERTICAL
3	11700.00	46.95	39.08	40.13	4.00	2.44	52.34	74.00	-21.66	Peak	VERTICAL
4	13160.00	46.42	39.73	40.29	4.27	2.66	52.79	74.00	-21.21	Peak	VERTICAL
5	15950.00	45.21	37.99	39.89	4.60	2.59	50.50	74.00	-23.50	Peak	VERTICAL
6	17300.00	43.71	39.04	40.28	4.78	3.16	50.41	74.00	-23.59	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5745

Data: 55



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2414.00	55.06	27.45	39.61	1.72	0.73	45.35	74.00	-28.65	Peak	HORIZONTAL
2	2883.00	51.14	29.06	39.84	1.84	0.78	42.98	74.00	-31.02	Peak	HORIZONTAL
3	3968.00	49.76	30.99	40.19	2.08	0.86	43.50	74.00	-30.50	Peak	HORIZONTAL
4	4668.00	49.37	32.04	40.33	2.42	0.89	44.39	74.00	-29.61	Peak	HORIZONTAL
5	6446.00	48.76	35.07	40.14	3.24	1.05	47.98	74.00	-26.02	Peak	HORIZONTAL
6	7433.00	48.64	36.35	39.74	3.12	1.04	49.41	74.00	-24.59	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6

**Test Date** : 2022-08-05

**Tested By** : Bairong

**EUT** : ACTIVE WIRELESS SPEAKER

**Model Number** : VIFA013

**Power Supply** : AC 120V/60Hz

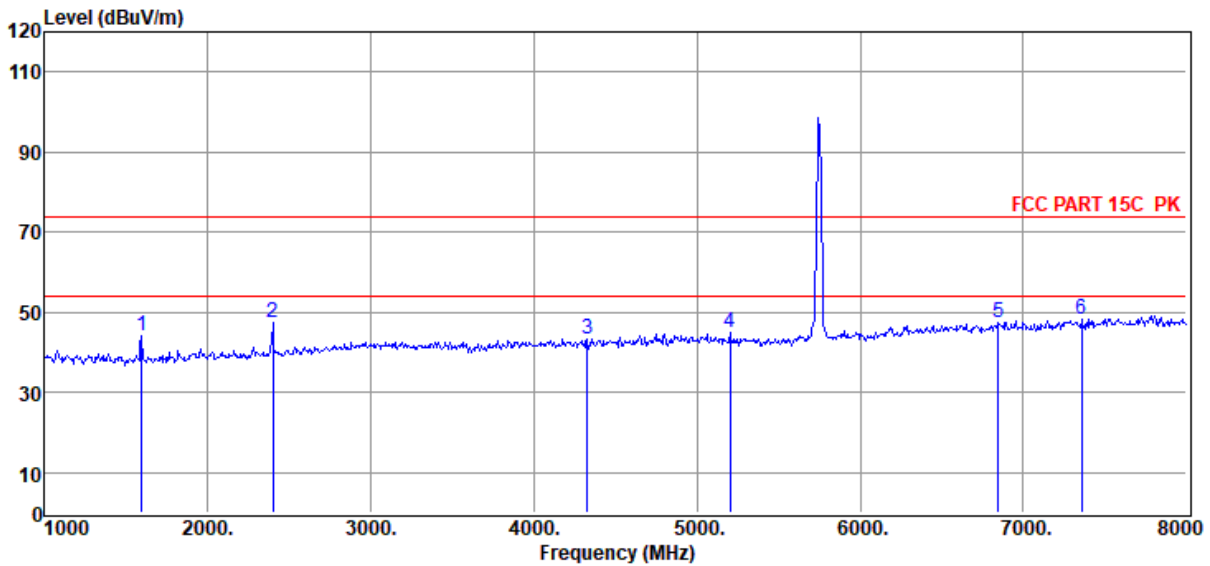
**Test Mode** : Tx mode

**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

**Memo** : 11A 5745

Data: 56



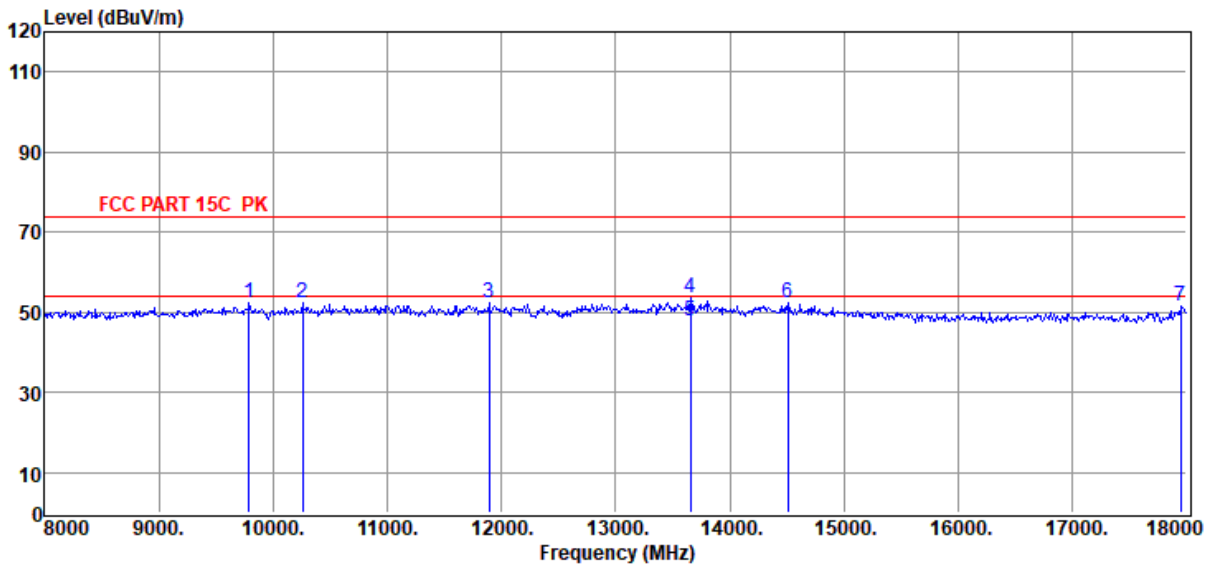
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	55.25	25.65	38.79	1.42	0.61	44.14	74.00	-29.86	Peak	VERTICAL
2	2400.00	57.25	27.42	39.60	1.71	0.72	47.50	74.00	-26.50	Peak	VERTICAL
3	4325.00	49.12	31.36	40.26	2.27	0.88	43.37	74.00	-30.63	Peak	VERTICAL
4	5200.00	48.70	32.98	40.42	2.55	0.96	44.77	74.00	-29.23	Peak	VERTICAL
5	6845.00	47.56	35.75	39.82	3.10	0.96	47.55	74.00	-26.45	Peak	VERTICAL
6	7356.00	47.66	36.28	39.74	3.11	1.02	48.33	74.00	-25.67	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5745

Data: 57



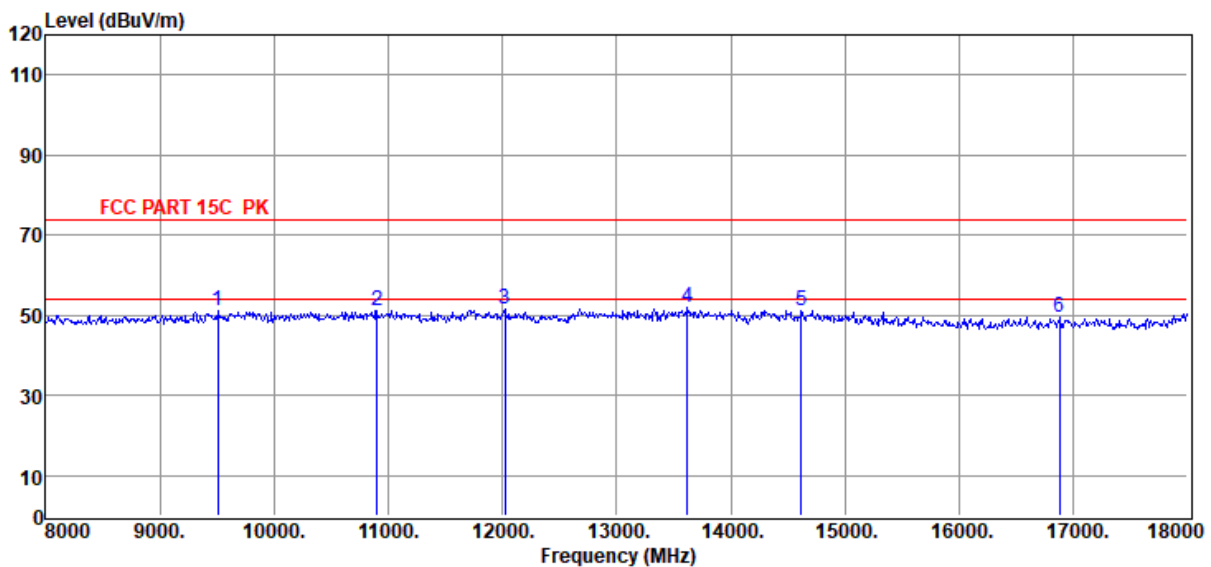
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9790.00	47.70	38.53	40.45	3.65	2.99	52.42	74.00	-21.58	Peak	HORIZONTAL
2	10260.00	47.42	38.71	40.50	3.67	2.93	52.23	74.00	-21.77	Peak	HORIZONTAL
3	11890.00	46.76	39.16	40.11	4.03	2.40	52.24	74.00	-21.76	Peak	HORIZONTAL
4	13660.00	46.60	39.97	39.94	4.16	2.68	53.47	74.00	-20.53	Peak	HORIZONTAL
5	13660.00	41.07	39.97	39.94	4.16	2.68	47.94	54.00	-6.06	Average	HORIZONTAL
6	14510.00	45.09	39.89	39.65	4.35	2.54	52.22	74.00	-21.78	Peak	HORIZONTAL
7	17950.00	42.41	42.19	40.67	4.95	2.65	51.53	74.00	-22.47	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5745

Data: 58



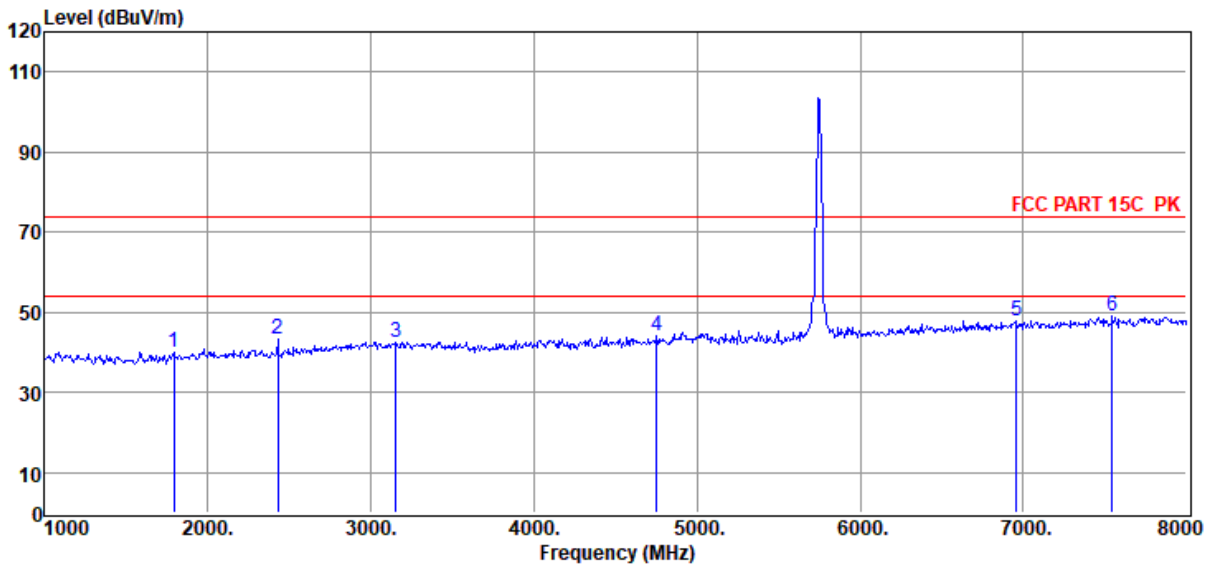
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9510.00	46.02	38.69	40.26	3.62	2.92	50.99	74.00	-23.01	Peak	VERTICAL
2	10900.00	45.84	39.24	40.24	3.77	2.66	51.27	74.00	-22.73	Peak	VERTICAL
3	12020.00	46.18	39.19	40.11	4.04	2.38	51.68	74.00	-22.32	Peak	VERTICAL
4	13620.00	45.17	39.98	39.97	4.12	2.67	51.97	74.00	-22.03	Peak	VERTICAL
5	14620.00	44.13	39.80	39.64	4.38	2.50	51.17	74.00	-22.83	Peak	VERTICAL
6	16880.00	43.06	38.36	40.08	4.71	3.30	49.35	74.00	-24.65	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5785

Data: 59



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1791.00	50.61	26.16	39.09	1.51	0.64	39.83	74.00	-34.17	Peak	HORIZONTAL
2	2428.00	53.01	27.47	39.61	1.72	0.73	43.32	74.00	-30.68	Peak	HORIZONTAL
3	3156.00	50.46	29.47	39.95	1.81	0.80	42.59	74.00	-31.41	Peak	HORIZONTAL
4	4752.00	48.69	32.31	40.35	2.45	0.90	44.00	74.00	-30.00	Peak	HORIZONTAL
5	6957.00	47.50	35.93	39.73	3.04	0.94	47.68	74.00	-26.32	Peak	HORIZONTAL
6	7545.00	47.96	36.45	39.75	3.14	1.07	48.87	74.00	-25.13	Peak	HORIZONTAL

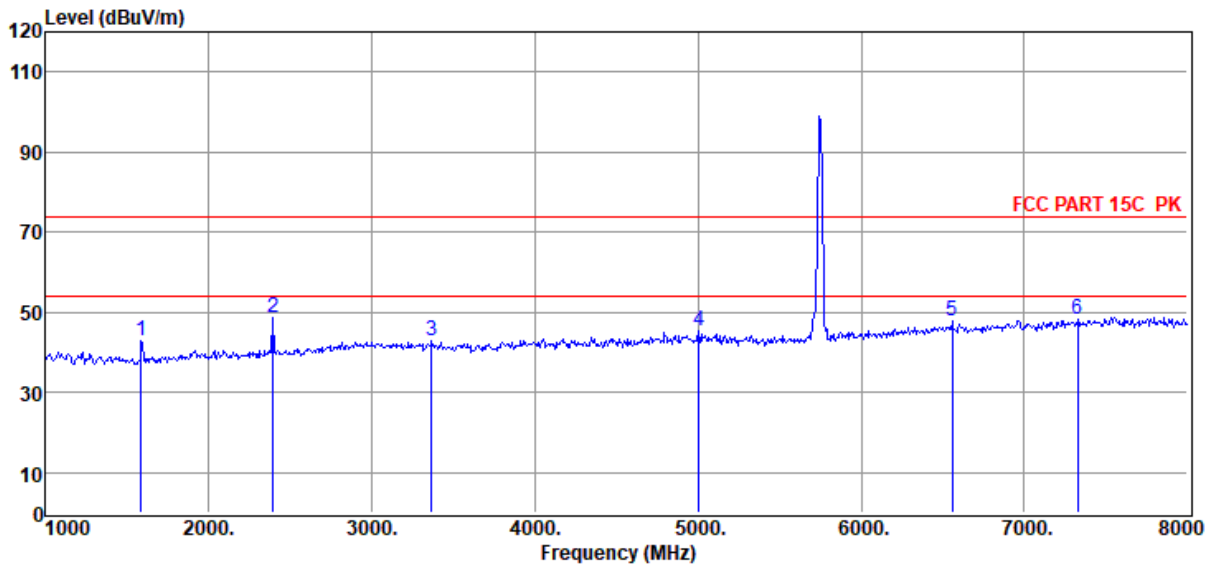
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5785

Data: 60



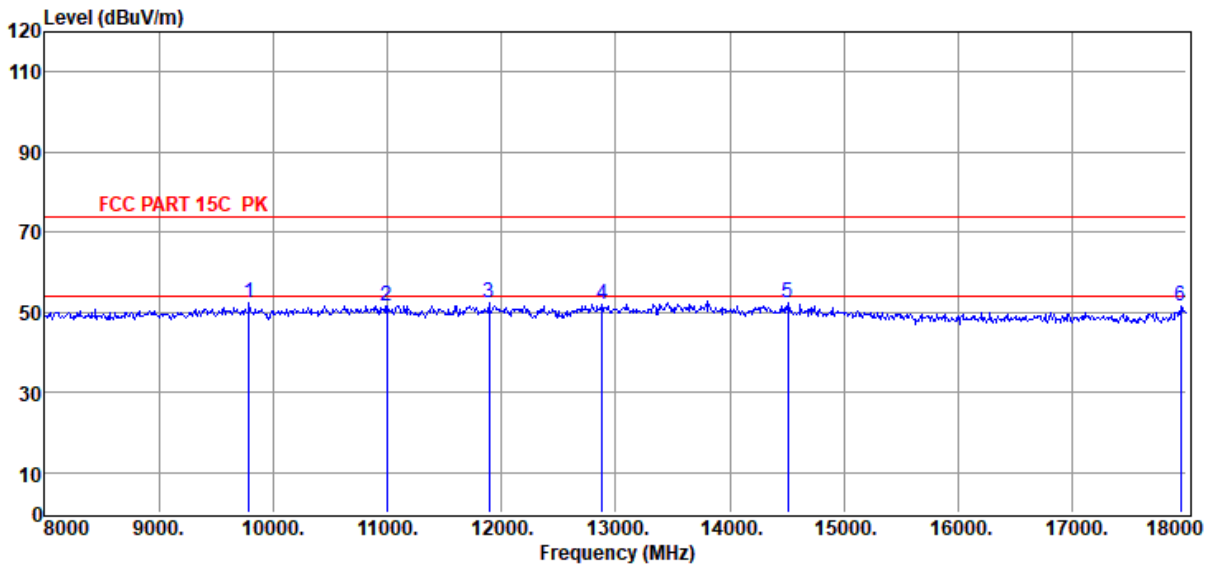
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1588.00	53.80	25.63	38.78	1.42	0.61	42.68	74.00	-31.32	Peak	VERTICAL
2	2393.00	58.56	27.41	39.60	1.71	0.72	48.80	74.00	-25.20	Peak	VERTICAL
3	3366.00	51.06	29.43	40.01	1.74	0.82	43.04	74.00	-30.96	Peak	VERTICAL
4	5004.00	49.41	33.10	40.40	2.54	0.91	45.56	74.00	-28.44	Peak	VERTICAL
5	6558.00	48.48	35.29	40.05	3.24	1.02	47.98	74.00	-26.02	Peak	VERTICAL
6	7328.00	47.40	36.26	39.73	3.10	1.01	48.04	74.00	-25.96	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5785

Data: 61



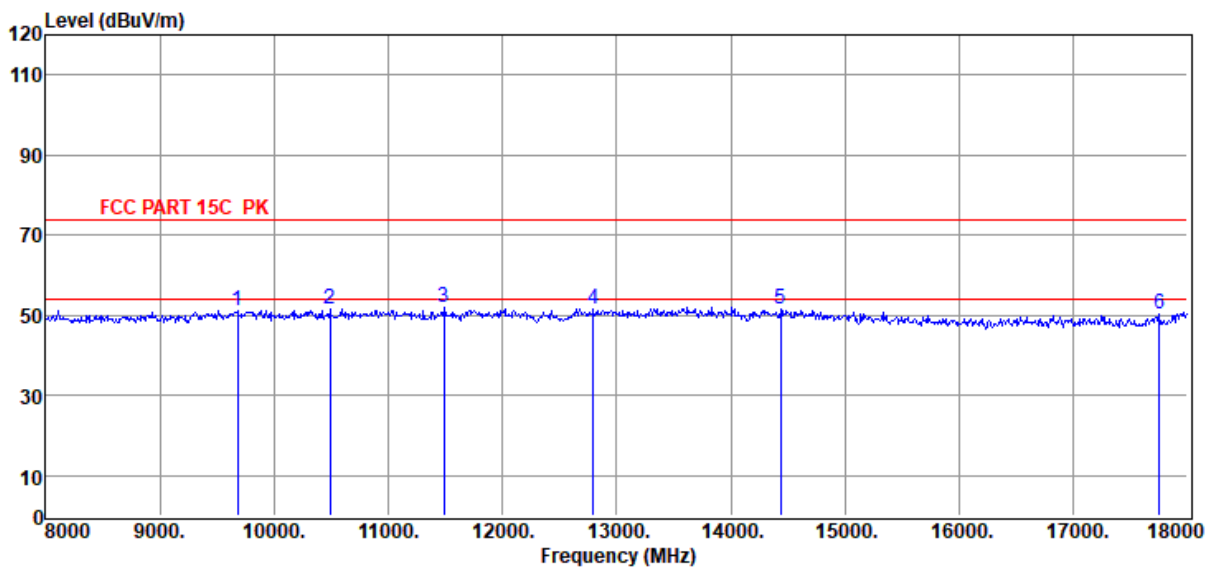
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9790.00	47.70	38.53	40.45	3.65	2.99	52.42	74.00	-21.58	Peak	HORIZONTAL
2	11000.00	46.17	39.30	40.20	3.80	2.62	51.69	74.00	-22.31	Peak	HORIZONTAL
3	11890.00	46.76	39.16	40.11	4.03	2.40	52.24	74.00	-21.76	Peak	HORIZONTAL
4	12880.00	46.07	39.46	40.36	4.23	2.62	52.02	74.00	-21.98	Peak	HORIZONTAL
5	14510.00	45.09	39.89	39.65	4.35	2.54	52.22	74.00	-21.78	Peak	HORIZONTAL
6	17950.00	42.41	42.19	40.67	4.95	2.65	51.53	74.00	-22.47	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5785

Data: 62



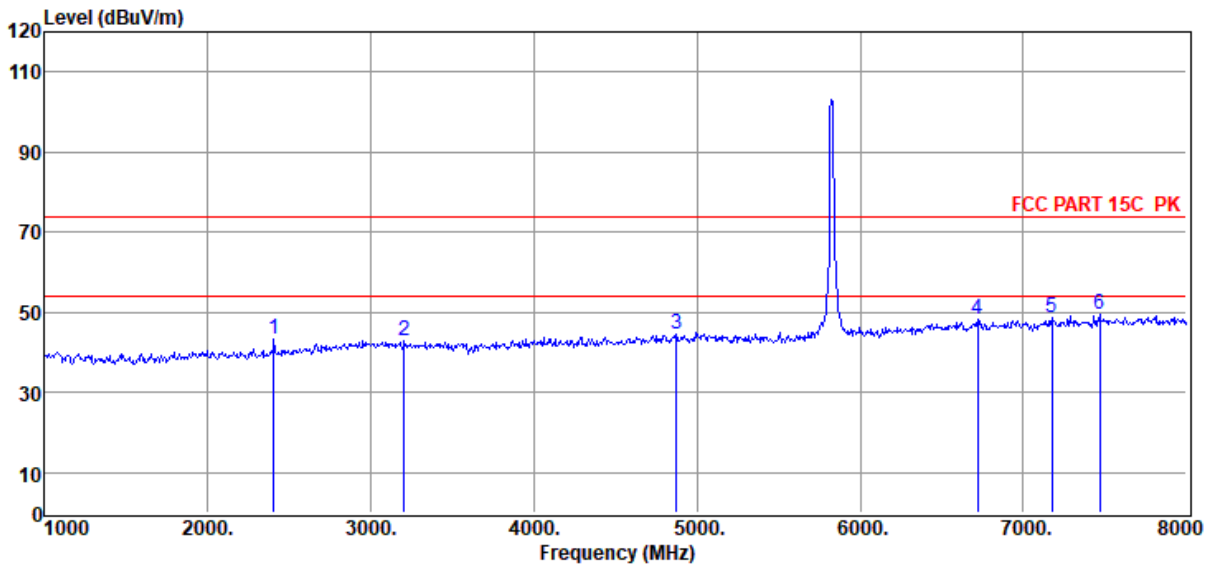
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9680.00	46.31	38.59	40.38	3.64	2.96	51.12	74.00	-22.88	Peak	VERTICAL
2	10490.00	46.33	38.99	40.40	3.67	2.83	51.42	74.00	-22.58	Peak	VERTICAL
3	11490.00	46.49	39.01	40.15	3.97	2.50	51.82	74.00	-22.18	Peak	VERTICAL
4	12800.00	45.99	39.36	40.34	4.12	2.59	51.72	74.00	-22.28	Peak	VERTICAL
5	14440.00	44.39	39.90	39.66	4.37	2.56	51.56	74.00	-22.44	Peak	VERTICAL
6	17750.00	42.31	40.95	40.55	4.89	2.80	50.40	74.00	-23.60	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5825

Data: 63



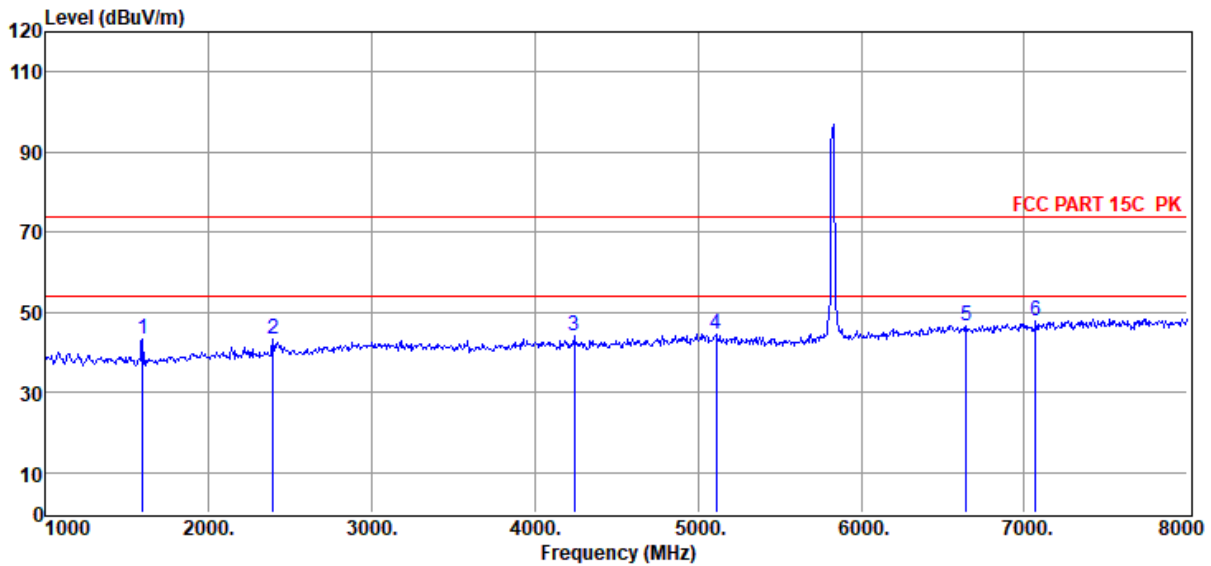
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2407.00	53.02	27.43	39.60	1.71	0.72	43.28	74.00	-30.72	Peak	HORIZONTAL
2	3205.00	50.77	29.46	39.96	1.80	0.80	42.87	74.00	-31.13	Peak	HORIZONTAL
3	4871.00	48.73	32.69	40.37	2.49	0.90	44.44	74.00	-29.56	Peak	HORIZONTAL
4	6719.00	48.35	35.55	39.92	3.16	0.99	48.13	74.00	-25.87	Peak	HORIZONTAL
5	7174.00	48.15	36.14	39.72	3.06	0.97	48.60	74.00	-25.40	Peak	HORIZONTAL
6	7468.00	48.75	36.37	39.75	3.13	1.05	49.55	74.00	-24.45	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5825

Data: 64



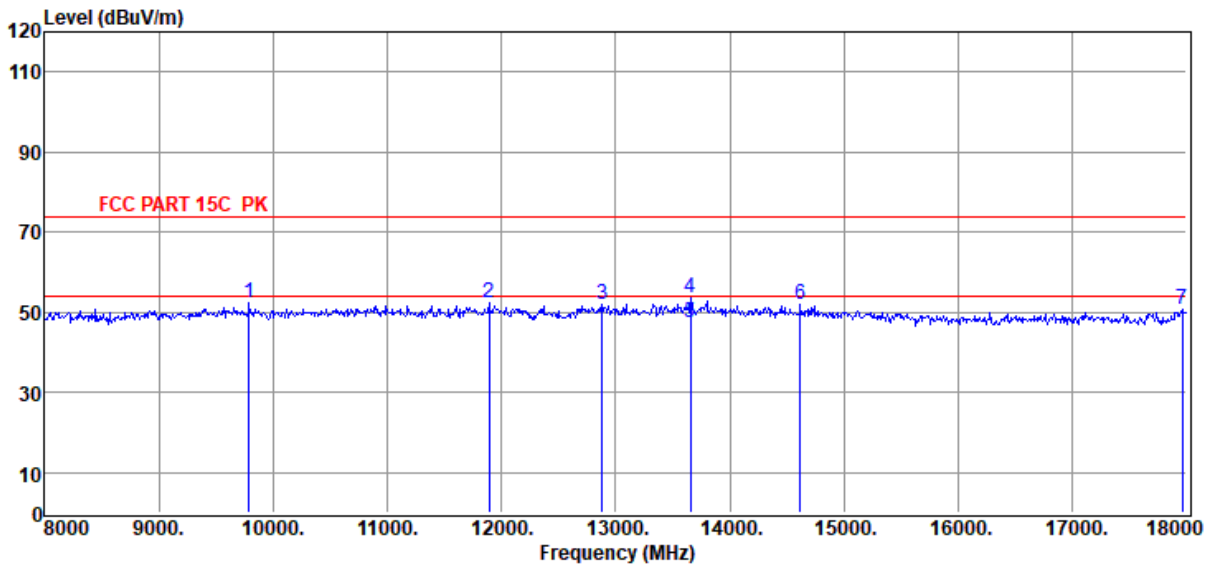
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	54.29	25.65	38.79	1.42	0.61	43.18	74.00	-30.82	Peak	VERTICAL
2	2393.00	53.14	27.41	39.60	1.71	0.72	43.38	74.00	-30.62	Peak	VERTICAL
3	4241.00	49.98	31.29	40.25	2.23	0.87	44.12	74.00	-29.88	Peak	VERTICAL
4	5109.00	48.42	33.03	40.41	2.55	0.94	44.53	74.00	-29.47	Peak	VERTICAL
5	6642.00	47.05	35.43	39.99	3.20	1.01	46.70	74.00	-27.30	Peak	VERTICAL
6	7069.00	47.51	36.06	39.71	3.04	0.95	47.85	74.00	-26.15	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5825

Data: 65



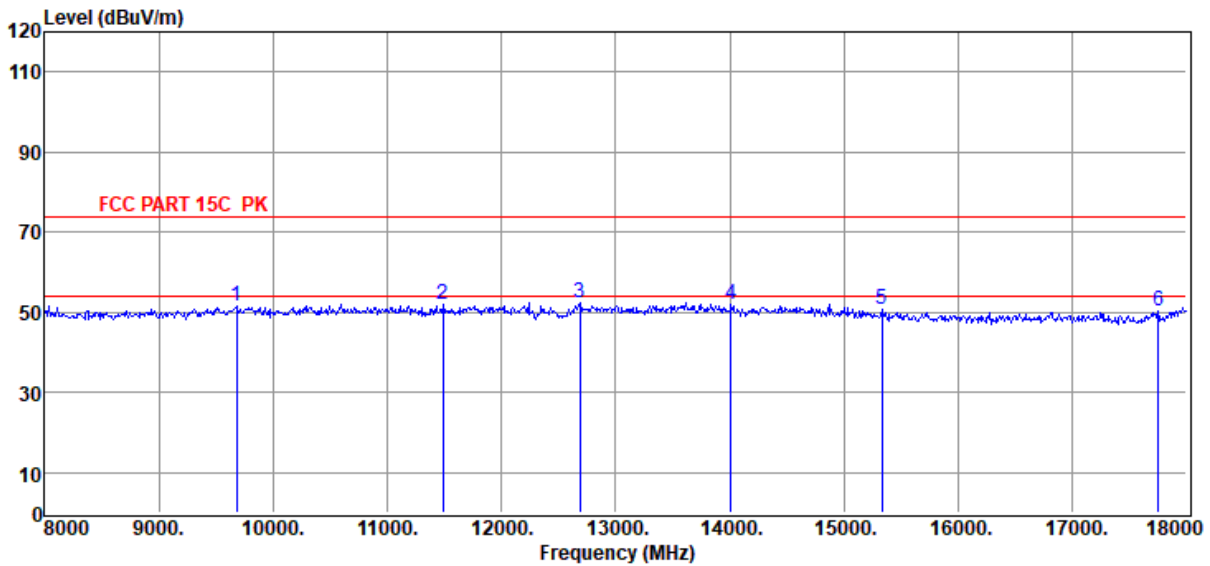
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9790.00	47.70	38.53	40.45	3.65	2.99	52.42	74.00	-21.58	Peak	HORIZONTAL
2	11890.00	46.76	39.16	40.11	4.03	2.40	52.24	74.00	-21.76	Peak	HORIZONTAL
3	12880.00	46.07	39.46	40.36	4.23	2.62	52.02	74.00	-21.98	Peak	HORIZONTAL
4	13660.00	46.60	39.97	39.94	4.16	2.68	53.47	74.00	-20.53	Peak	HORIZONTAL
5	13660.00	40.69	39.97	39.94	4.16	2.68	47.56	54.00	-6.44	Average	HORIZONTAL
6	14620.00	44.96	39.80	39.64	4.38	2.50	52.00	74.00	-22.00	Peak	HORIZONTAL
7	17960.00	41.47	42.25	40.68	4.95	2.64	50.63	74.00	-23.37	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5825

Data: 66

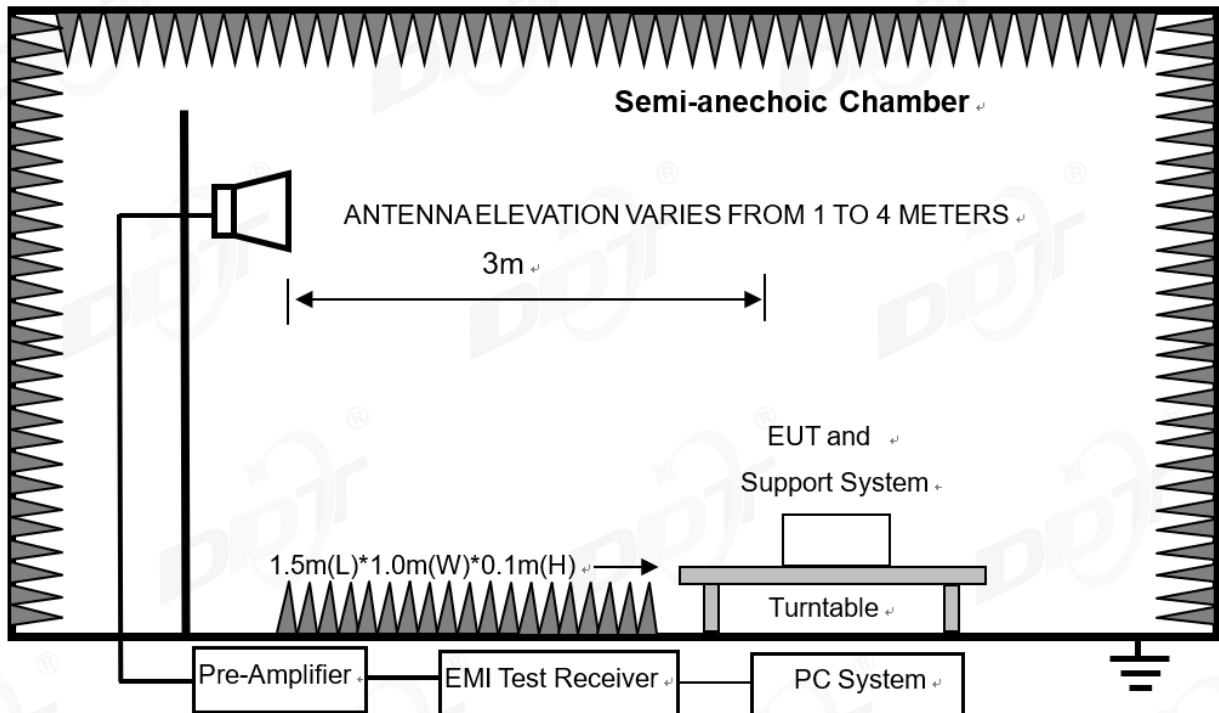


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9680.00	46.68	38.59	40.38	3.64	2.96	51.49	74.00	-22.51	Peak	VERTICAL
2	11490.00	46.49	39.01	40.15	3.97	2.50	51.82	74.00	-22.18	Peak	VERTICAL
3	12690.00	46.98	39.23	40.31	3.97	2.56	52.43	74.00	-21.57	Peak	VERTICAL
4	14010.00	44.58	39.90	39.70	4.53	2.69	52.00	74.00	-22.00	Peak	VERTICAL
5	15330.00	44.24	39.04	39.70	4.53	2.46	50.57	74.00	-23.43	Peak	VERTICAL
6	17750.00	42.31	40.95	40.55	4.89	2.80	50.40	74.00	-23.60	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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.

## 9. Band Edge Compliance

### 9.1. Block diagram of test setup



### 9.2. Limit

For transmitters operating in the 5.15-5.25 GHz and 5.725-5.85 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

$$-27 \text{ dBm/MHz Limit} = 95.2 + \text{EIRP}[\text{dBm}] = 95.2 - 27 = 68.2 \text{ dB}\mu\text{V/m}$$

### 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)

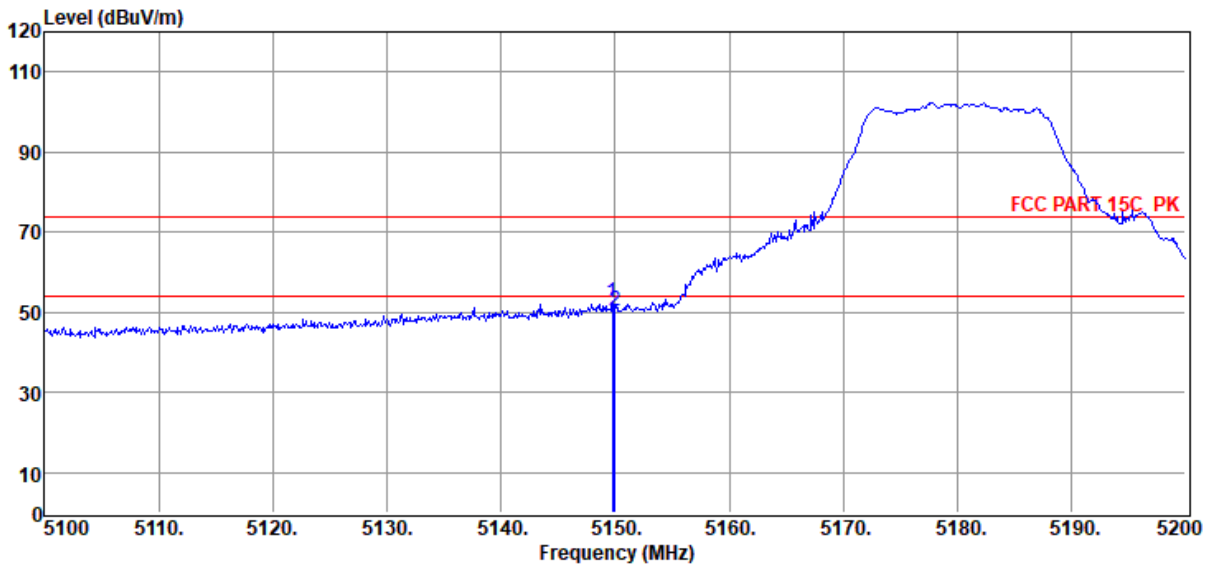
Note: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required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



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5180

Data: 1



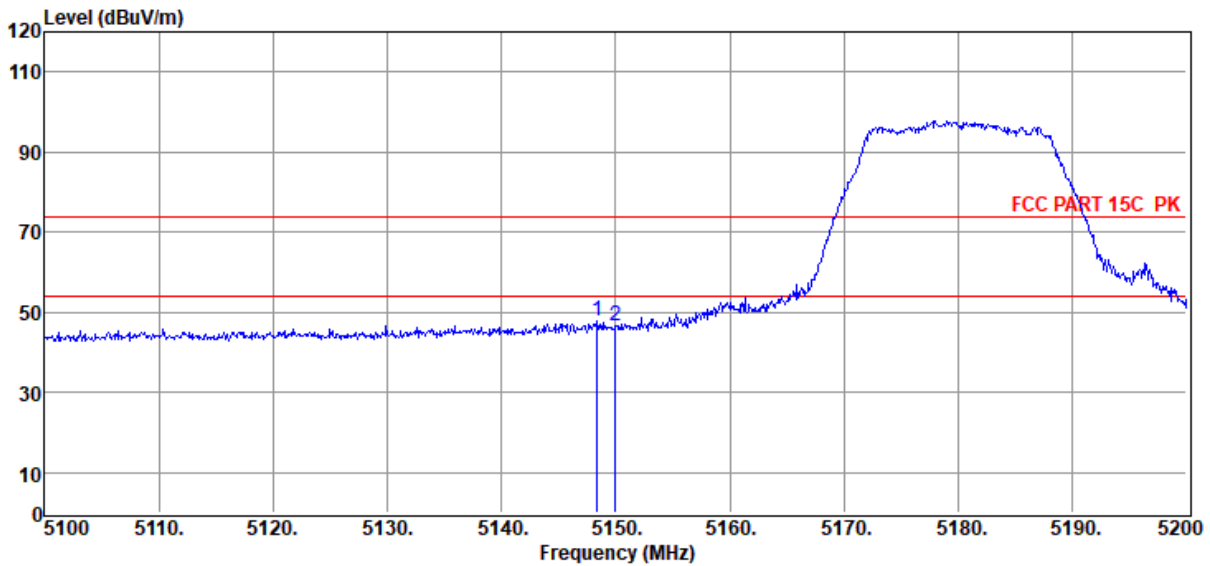
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5149.80	56.19	33.01	40.41	2.55	0.94	52.28	74.00	-21.72	Peak	HORIZONTAL
2	5150.00	54.19	33.01	40.42	2.55	0.94	50.27	74.00	-23.73	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5180

Data: 2



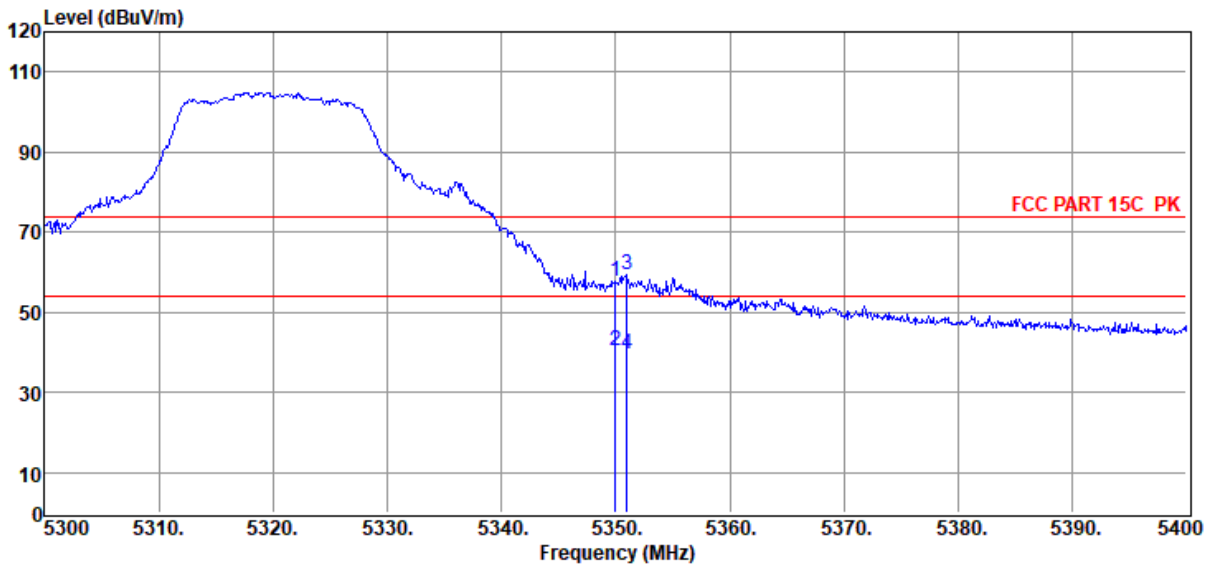
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5148.40	51.76	33.01	40.41	2.55	0.94	47.85	74.00	-26.15	Peak	VERTICAL
2	5150.00	50.38	33.01	40.42	2.55	0.94	46.46	74.00	-27.54	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5320

Data: 7



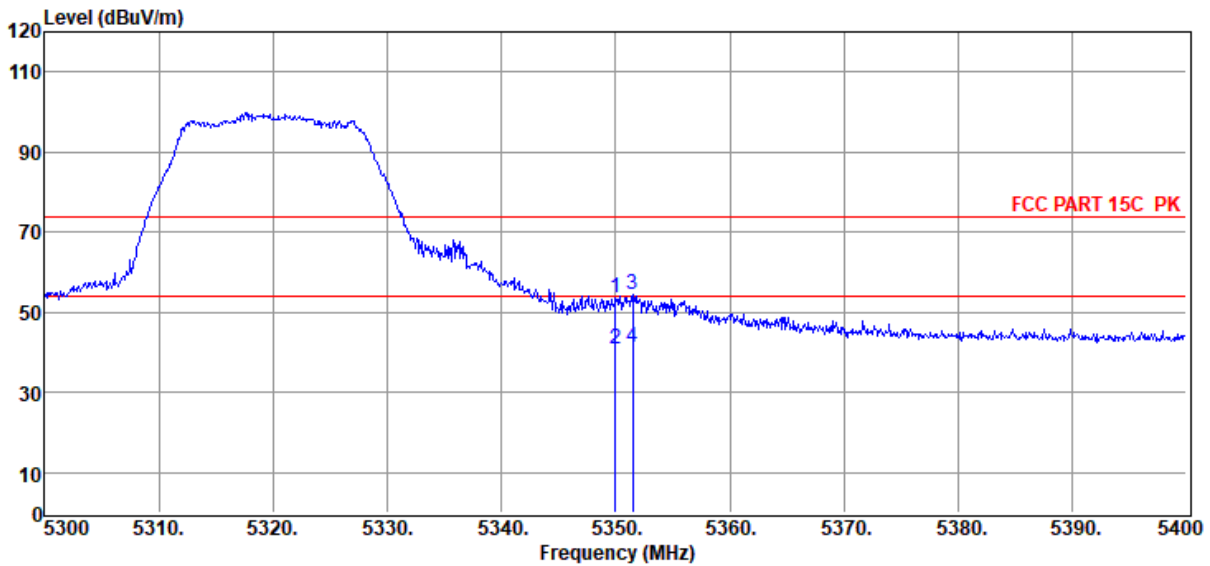
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	61.66	32.89	40.44	2.56	0.99	57.66	74.00	-16.34	Peak	HORIZONTAL
2	5350.00	44.52	32.89	40.44	2.56	0.99	40.52	54.00	-13.48	Average	HORIZONTAL
3	5351.00	63.57	32.89	40.44	2.56	0.99	59.57	74.00	-14.43	Peak	HORIZONTAL
4	5351.00	43.65	32.89	40.44	2.56	0.99	39.65	54.00	-14.35	Average	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5320

Data: 8



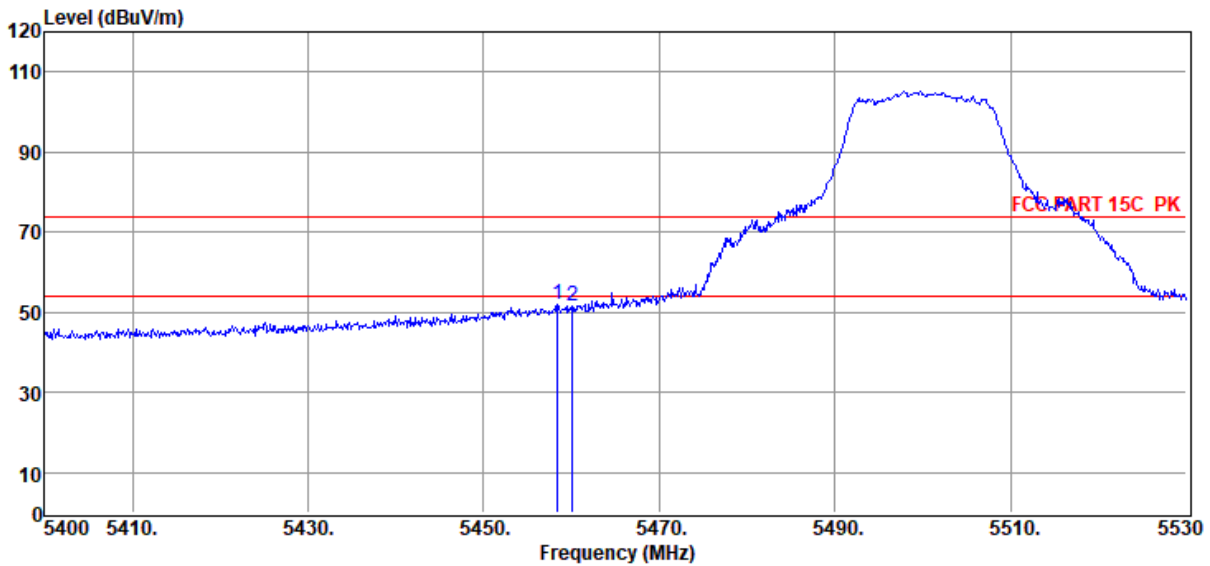
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	57.69	32.89	40.44	2.56	0.99	53.69	74.00	-20.31	Peak	VERTICAL
2	5350.00	44.85	32.89	40.44	2.56	0.99	40.85	54.00	-13.15	Average	VERTICAL
3	5351.50	58.60	32.89	40.44	2.56	0.99	54.60	74.00	-19.40	Peak	VERTICAL
4	5351.50	45.17	32.89	40.44	2.56	0.99	41.17	54.00	-12.83	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5500

Data: 67



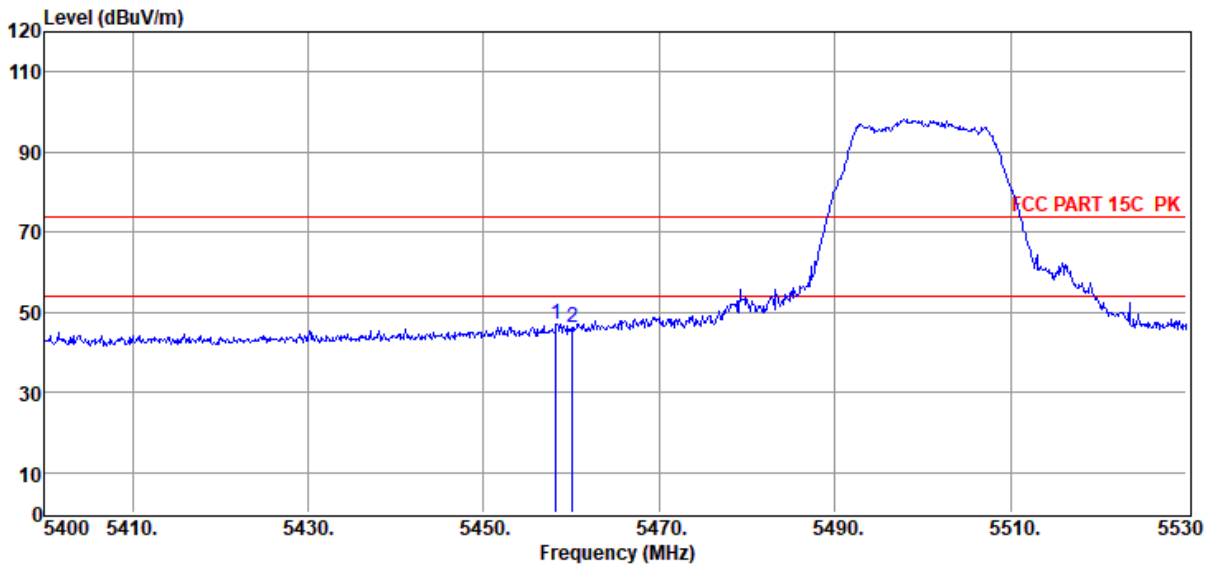
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5458.37	55.87	32.82	40.45	2.57	1.02	51.83	74.00	-22.17	Peak	HORIZONTAL
2	5460.06	55.65	32.82	40.45	2.57	1.02	51.61	74.00	-22.39	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5500

Data: 68



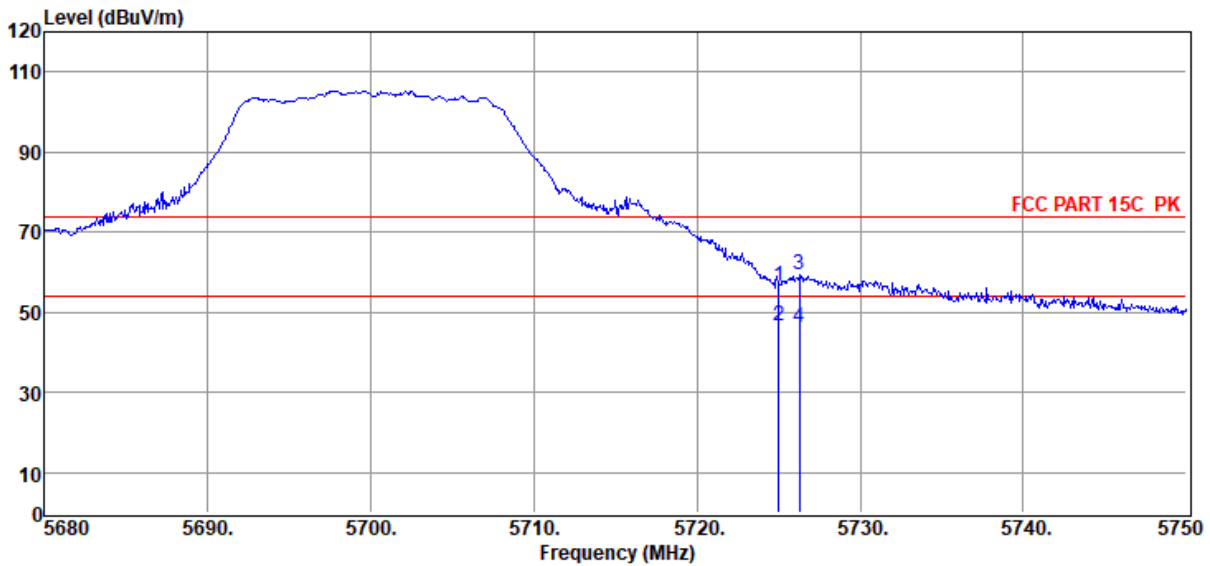
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5458.24	51.20	32.83	40.45	2.57	1.02	47.17	74.00	-26.83	Peak	VERTICAL
2	5460.06	50.04	32.82	40.45	2.57	1.02	46.00	74.00	-28.00	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5700

Data: 73



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	59.63	33.34	40.47	2.78	1.08	56.36	74.00	-17.64	Peak	HORIZONTAL
2	5725.01	50.04	33.34	40.47	2.78	1.08	46.77	54.00	-7.23	Average	HORIZONTAL
3	5726.27	62.54	33.34	40.47	2.78	1.08	59.27	74.00	-14.73	Peak	HORIZONTAL
4	5726.27	49.47	33.34	40.47	2.78	1.08	46.20	54.00	-7.80	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3#

D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6

**Test Date** : 2022-08-05

**Tested By** : Bairong

**EUT** : ACTIVE WIRELESS SPEAKER

**Model Number** : VIFA013

**Power Supply** : AC 120V/60Hz

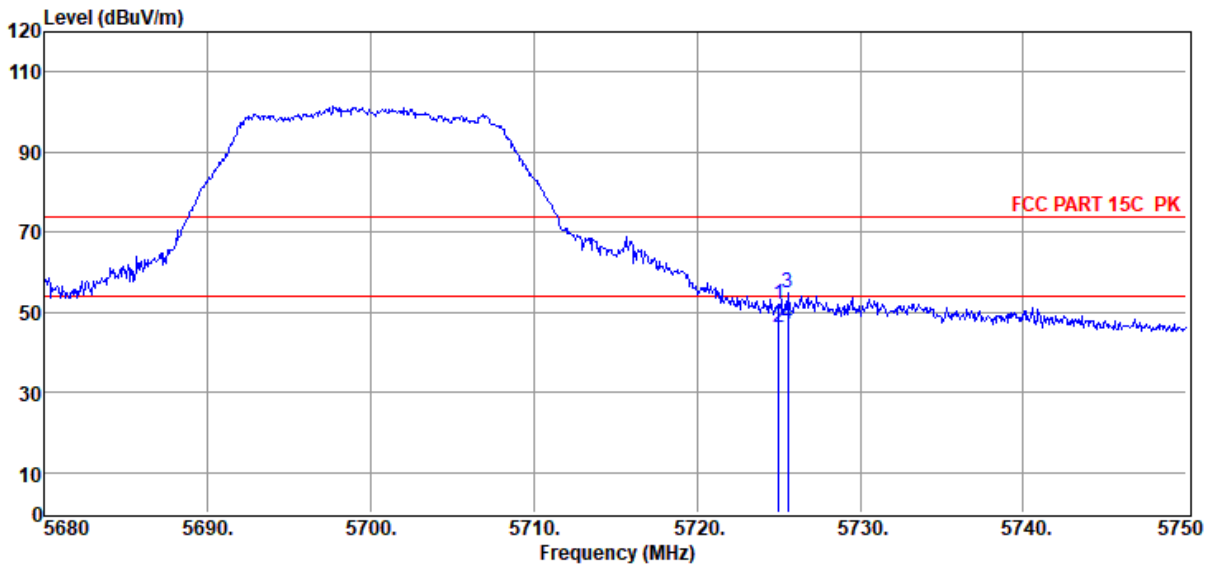
**Test Mode** : Tx mode

**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

**Memo** : 11A 5700

Data: 74



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	55.23	33.34	40.47	2.78	1.08	51.96	74.00	-22.04	Peak	VERTICAL
2	5725.01	49.60	33.34	40.47	2.78	1.08	46.33	54.00	-7.67	Average	VERTICAL
3	5725.57	57.93	33.34	40.47	2.78	1.08	54.66	74.00	-19.34	Peak	VERTICAL
4	5725.57	50.16	33.34	40.47	2.78	1.08	46.89	54.00	-7.11	Average	VERTICAL

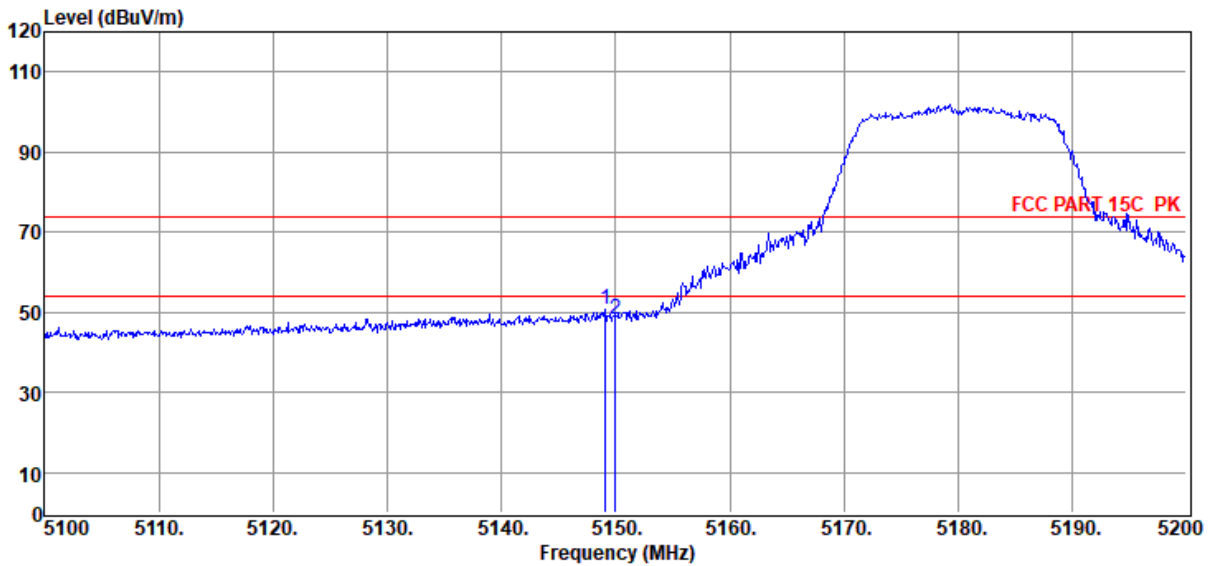
- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N20 5180

Data: 3



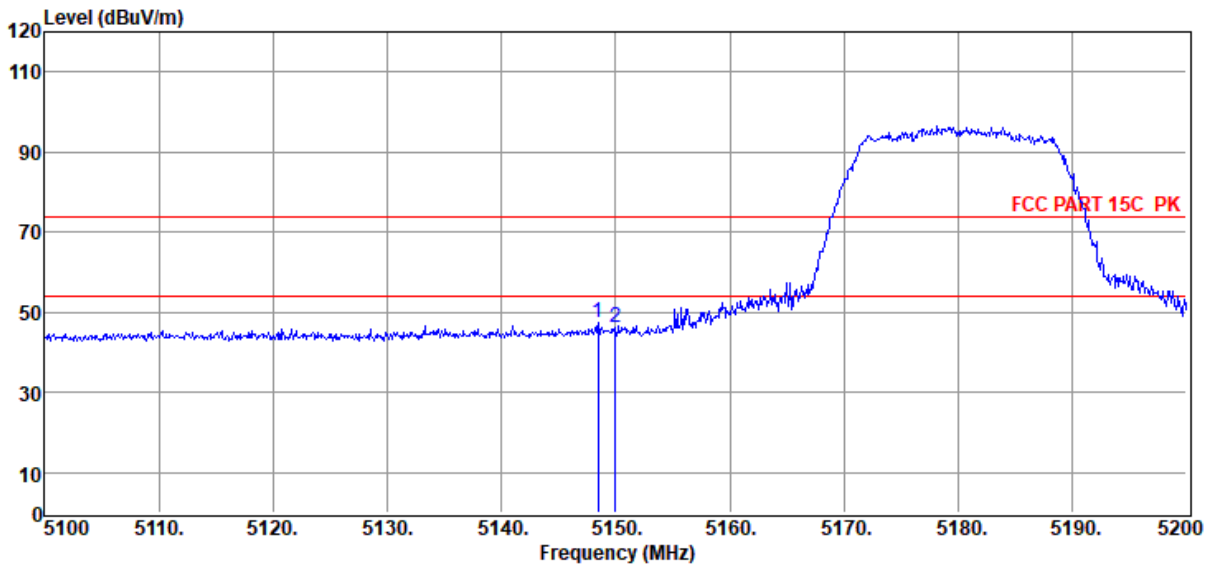
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5149.10	54.48	33.01	40.41	2.55	0.94	50.57	74.00	-23.43	Peak	HORIZONTAL
2	5150.00	52.16	33.01	40.42	2.55	0.94	48.24	74.00	-25.76	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N20 5180

Data: 4



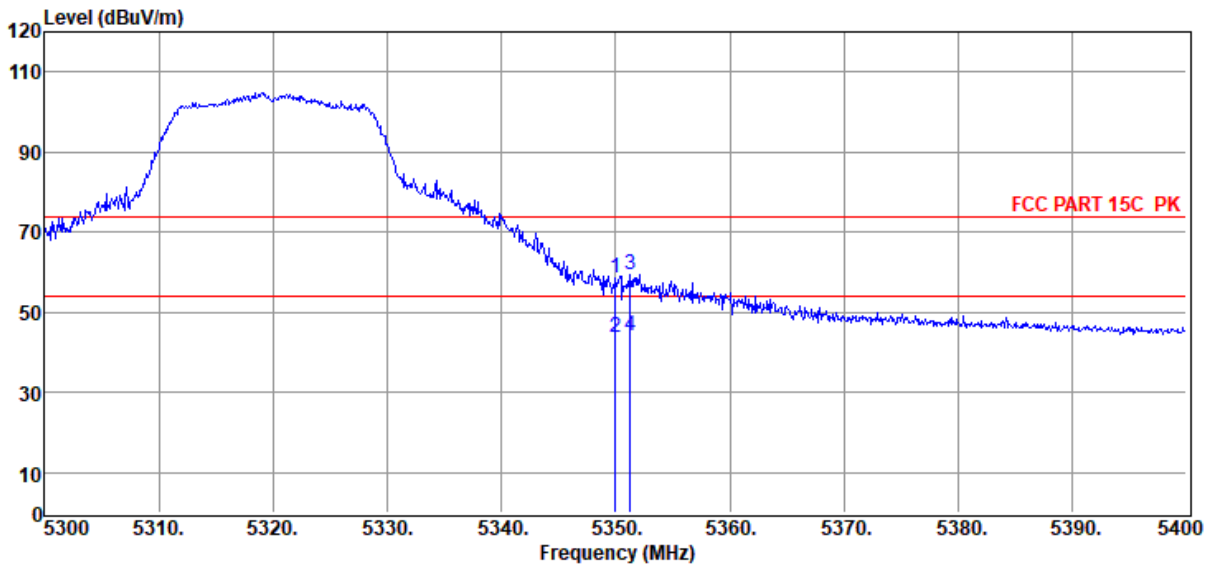
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5148.50	51.23	33.01	40.41	2.55	0.94	47.32	74.00	-26.68	Peak	VERTICAL
2	5150.00	50.08	33.01	40.42	2.55	0.94	46.16	74.00	-27.84	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N20 5320

Data: 9



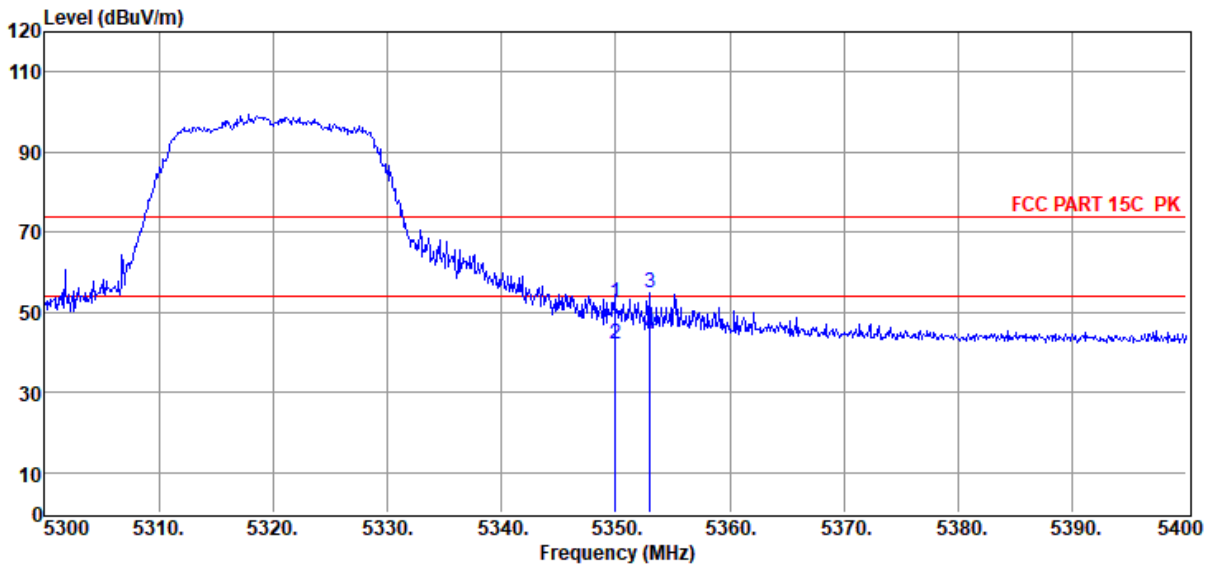
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	62.46	32.89	40.44	2.56	0.99	58.46	74.00	-15.54	Peak	HORIZONTAL
2	5350.00	47.53	32.89	40.44	2.56	0.99	43.53	54.00	-10.47	Average	HORIZONTAL
3	5351.30	63.28	32.89	40.44	2.56	0.99	59.28	74.00	-14.72	Peak	HORIZONTAL
4	5351.30	48.16	32.89	40.44	2.56	0.99	44.16	54.00	-9.84	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N20 5320

Data: 10



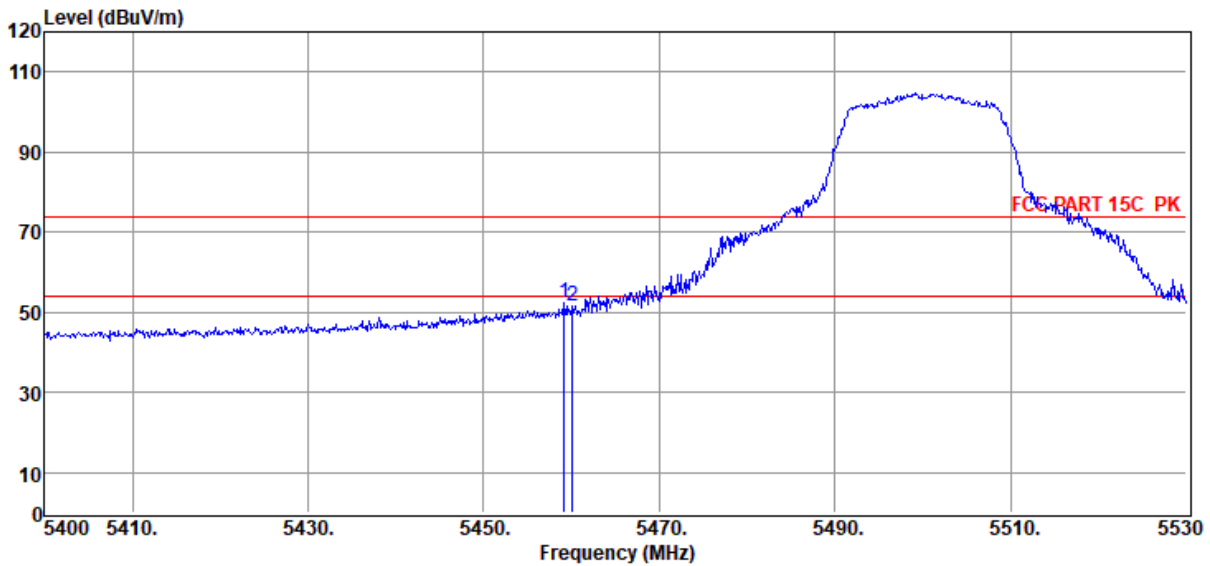
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	56.48	32.89	40.44	2.56	0.99	52.48	74.00	-21.52	Peak	VERTICAL
2	5350.00	46.09	32.89	40.44	2.56	0.99	42.09	54.00	-11.91	Average	VERTICAL
3	5353.00	58.85	32.89	40.44	2.56	0.99	54.85	74.00	-19.15	Peak	VERTICAL
4	5353.00	48.43	32.89	40.44	2.56	0.99	44.43	54.00	-9.57	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N20 5500

Data: 69



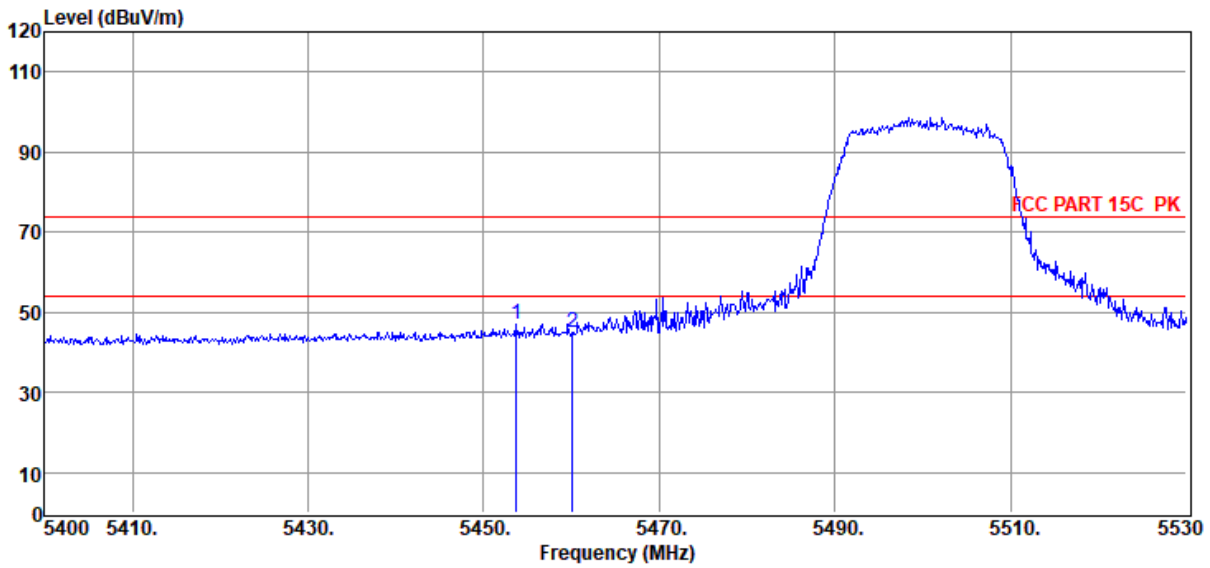
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5459.15	56.29	32.82	40.45	2.57	1.02	52.25	74.00	-21.75	Peak	HORIZONTAL
2	5460.06	55.73	32.82	40.45	2.57	1.02	51.69	74.00	-22.31	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N20 5500

Data: 70



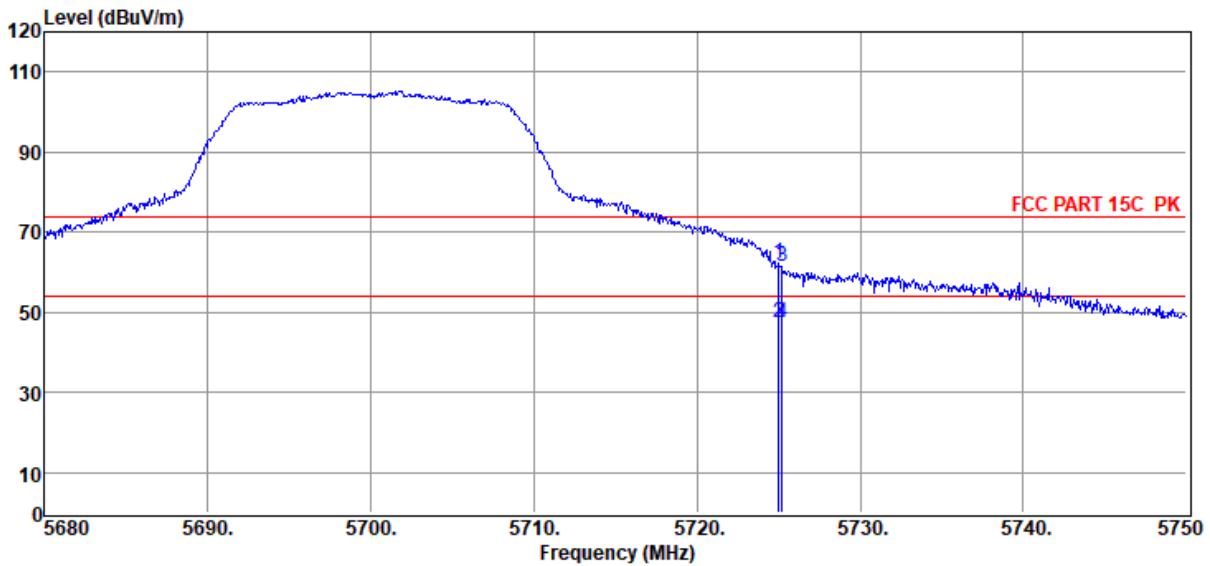
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5453.69	51.14	32.83	40.45	2.57	1.01	47.10	74.00	-26.90	Peak	VERTICAL
2	5460.06	49.14	32.82	40.45	2.57	1.02	45.10	74.00	-28.90	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N20 5700

Data: 75



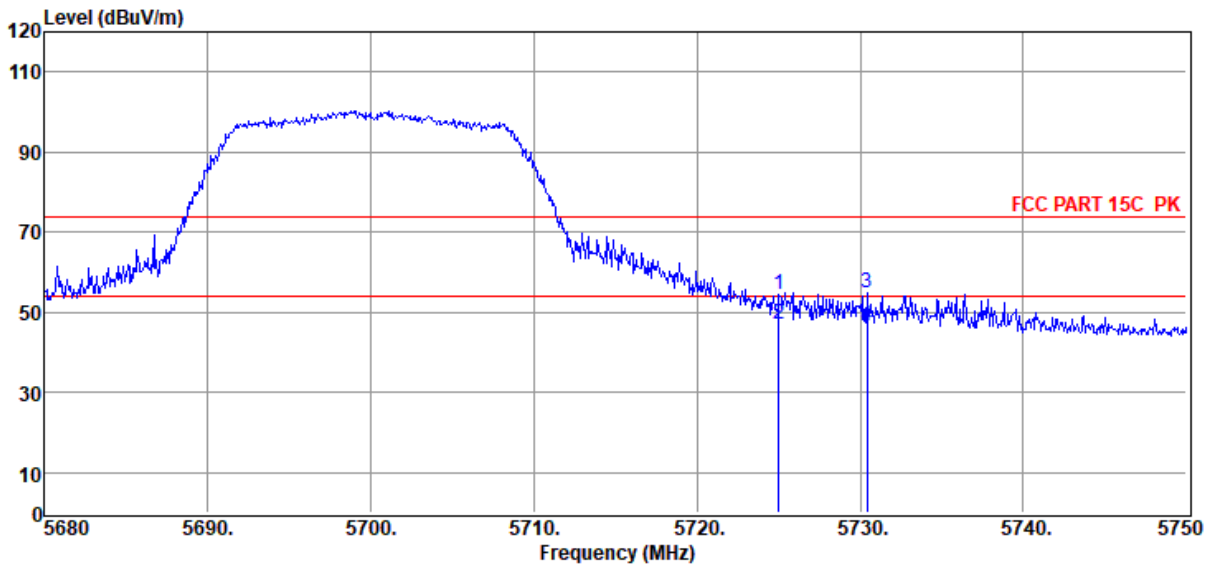
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	65.44	33.34	40.47	2.78	1.08	62.17	74.00	-11.83	Peak	HORIZONTAL
2	5725.01	50.62	33.34	40.47	2.78	1.08	47.35	54.00	-6.65	Average	HORIZONTAL
3	5725.22	64.72	33.34	40.47	2.78	1.08	61.45	74.00	-12.55	Peak	HORIZONTAL
4	5725.22	50.81	33.34	40.47	2.78	1.08	47.54	54.00	-6.46	Average	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N20 5700

Data: 76



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	57.53	33.34	40.47	2.78	1.08	54.26	74.00	-19.74	Peak	VERTICAL
2	5725.01	50.15	33.34	40.47	2.78	1.08	46.88	54.00	-7.12	Average	VERTICAL
3	5730.40	58.09	33.35	40.47	2.78	1.08	54.83	74.00	-19.17	Peak	VERTICAL
4	5730.40	49.69	33.35	40.47	2.78	1.08	46.43	54.00	-7.57	Average	VERTICAL

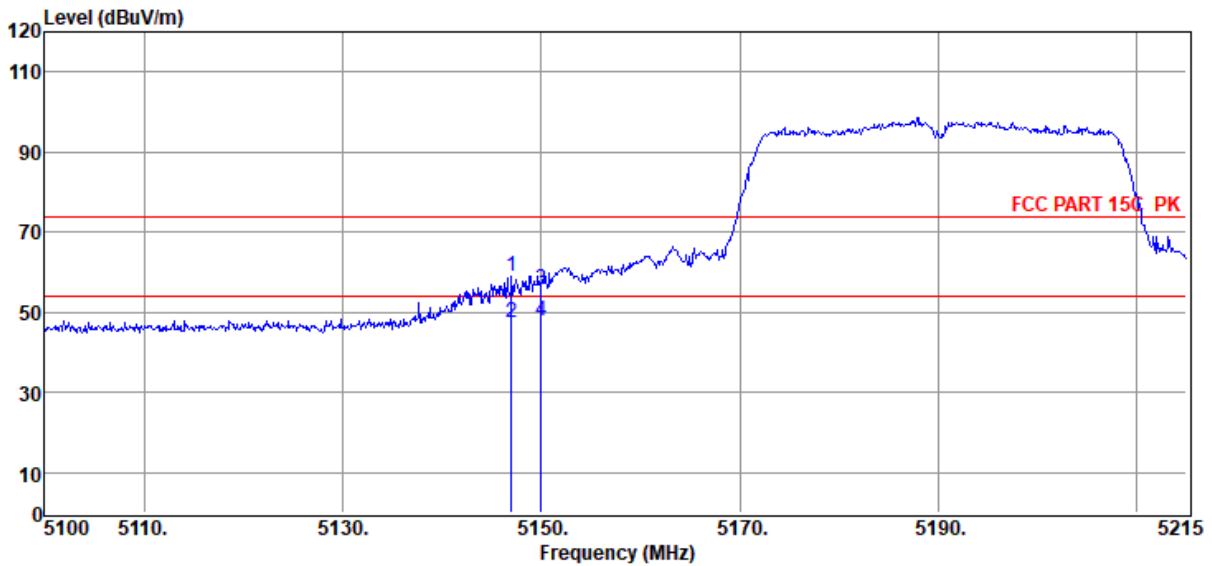
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N40 5190

Data: 79



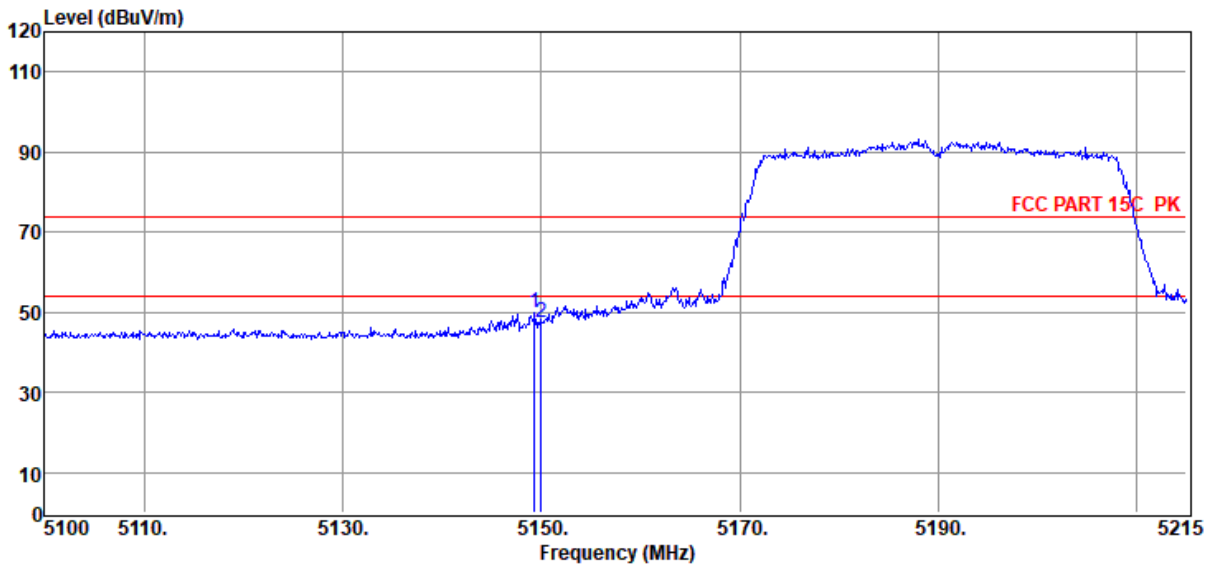
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5147.04	62.94	33.01	40.41	2.55	0.94	59.03	74.00	-14.97	Peak	HORIZONTAL
2	5147.04	51.36	33.01	40.41	2.55	0.94	47.45	54.00	-6.55	Average	HORIZONTAL
3	5150.03	59.64	33.01	40.42	2.55	0.94	55.72	74.00	-18.28	Peak	HORIZONTAL
4	5150.03	51.70	33.01	40.42	2.55	0.94	47.78	54.00	-6.22	Average	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N40 5190

Data: 80



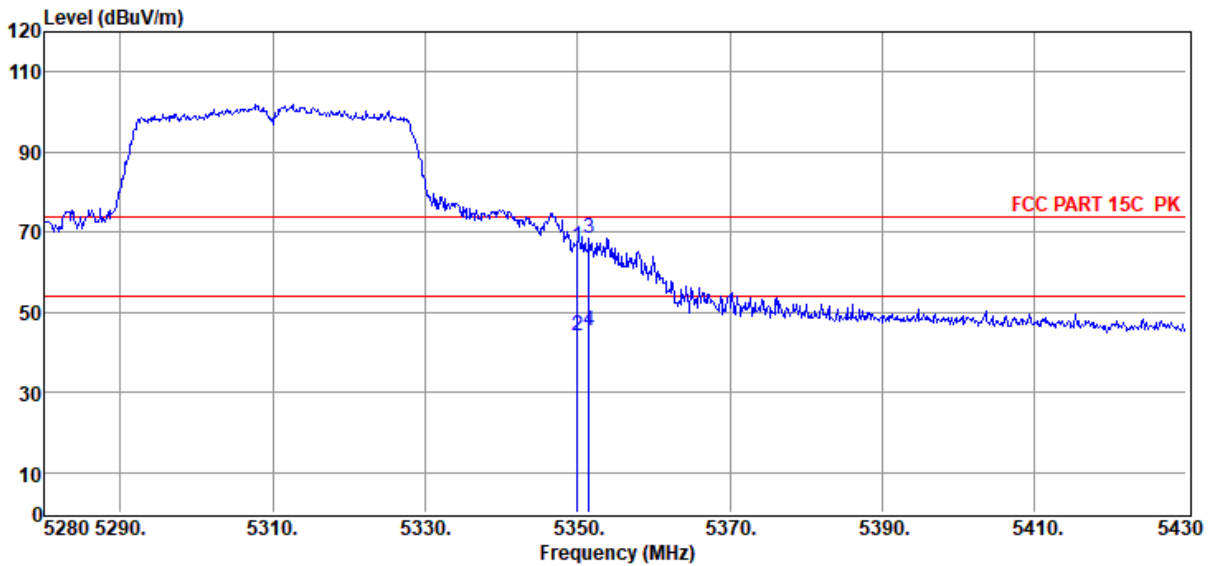
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5149.34	53.64	33.01	40.41	2.55	0.94	49.73	74.00	-24.27	Peak	VERTICAL
2	5150.03	51.41	33.01	40.42	2.55	0.94	47.49	74.00	-26.51	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N40 5310

Data: 83



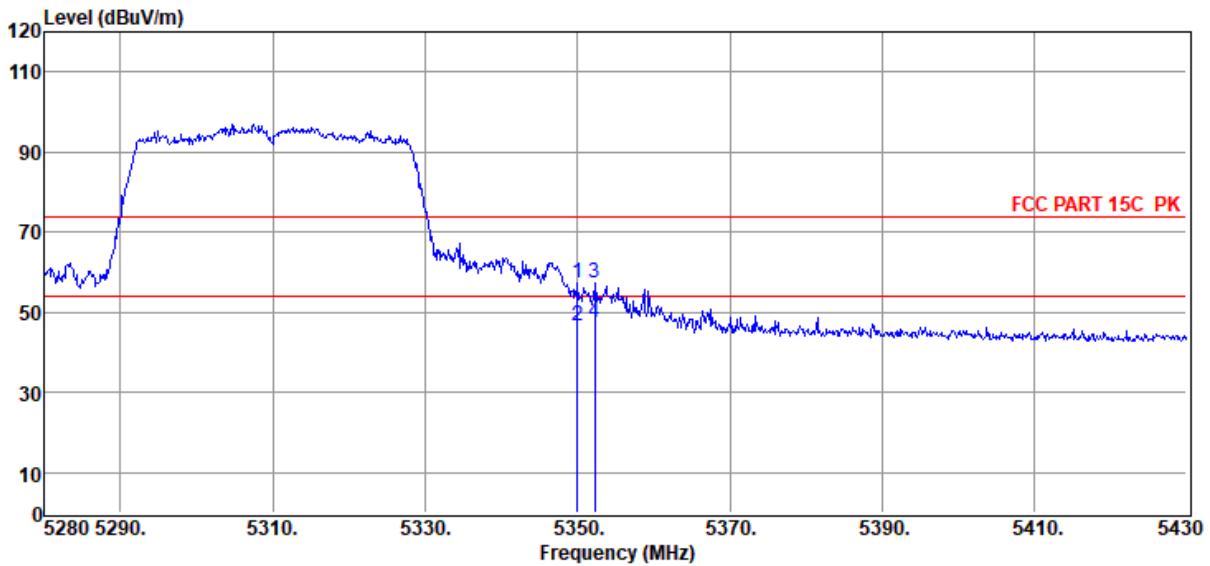
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.05	70.26	32.89	40.44	2.56	0.99	66.26	74.00	-7.74	Peak	HORIZONTAL
2	5350.05	48.23	32.89	40.44	2.56	0.99	44.23	54.00	-9.77	Average	HORIZONTAL
3	5351.55	72.57	32.89	40.44	2.56	0.99	68.57	74.00	-5.43	Peak	HORIZONTAL
4	5351.55	49.37	32.89	40.44	2.56	0.99	45.37	54.00	-8.63	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N40 5310

Data: 84



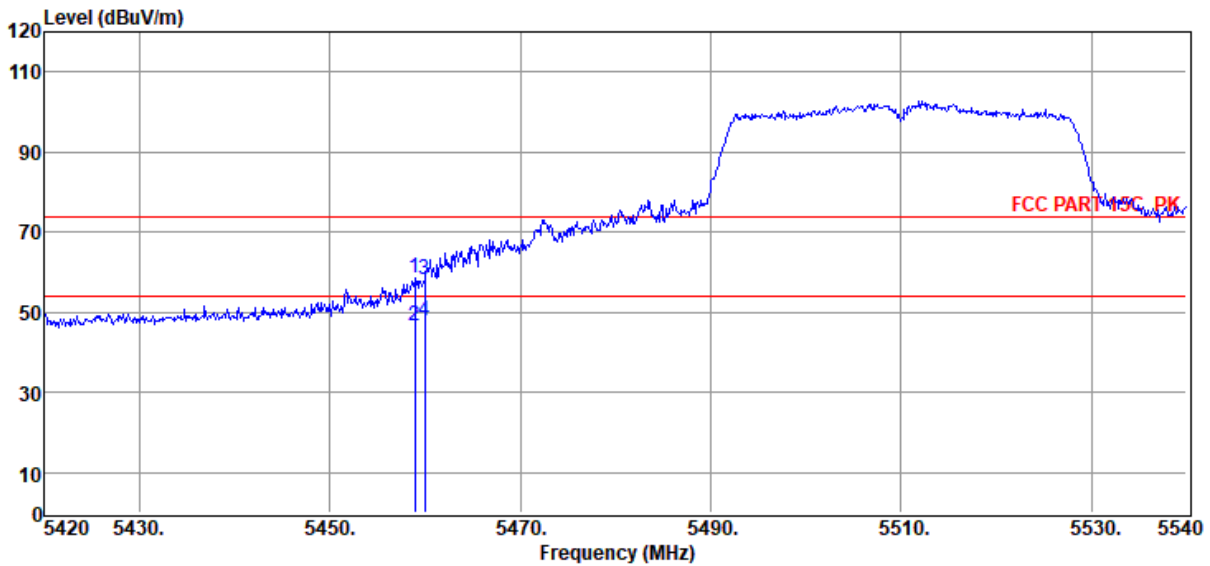
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.05	61.21	32.89	40.44	2.56	0.99	57.21	74.00	-16.79	Peak	VERTICAL
2	5350.05	50.56	32.89	40.44	2.56	0.99	46.56	54.00	-7.44	Average	VERTICAL
3	5352.30	61.27	32.89	40.44	2.56	0.99	57.27	74.00	-16.73	Peak	VERTICAL
4	5352.30	51.32	32.89	40.44	2.56	0.99	47.32	54.00	-6.68	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N40 5510

Data: 87



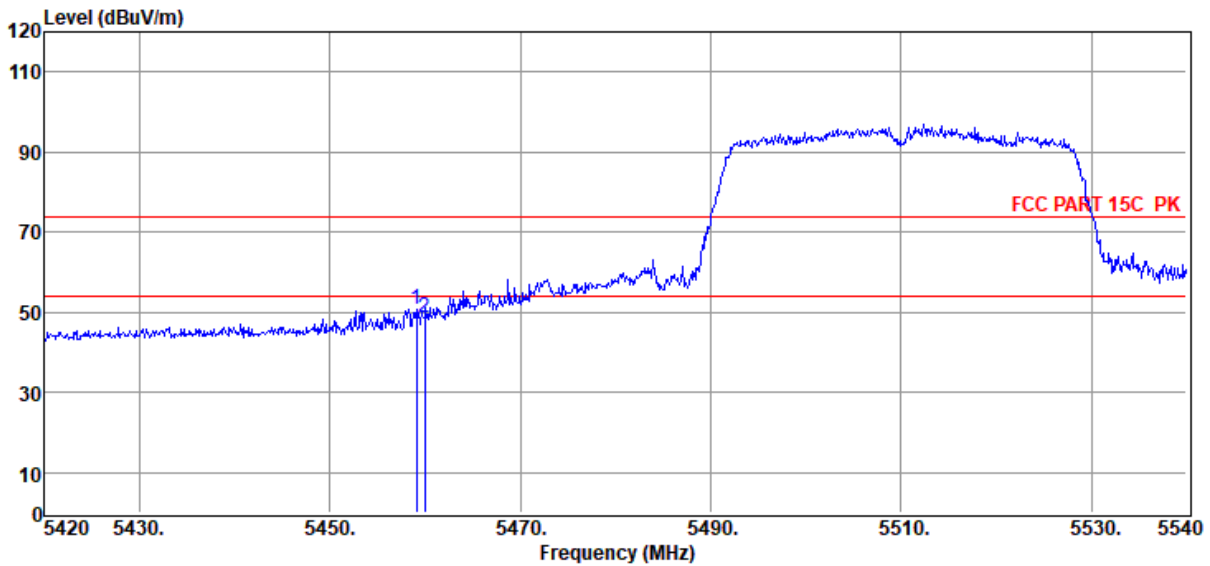
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5458.88	62.61	32.82	40.45	2.57	1.02	58.57	74.00	-15.43	Peak	HORIZONTAL
2	5458.88	50.69	32.82	40.45	2.57	1.02	46.65	54.00	-7.35	Average	HORIZONTAL
3	5459.96	62.08	32.82	40.45	2.57	1.02	58.04	74.00	-15.96	Peak	HORIZONTAL
4	5459.96	51.96	32.82	40.45	2.57	1.02	47.92	54.00	-6.08	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N40 5510

Data: 88



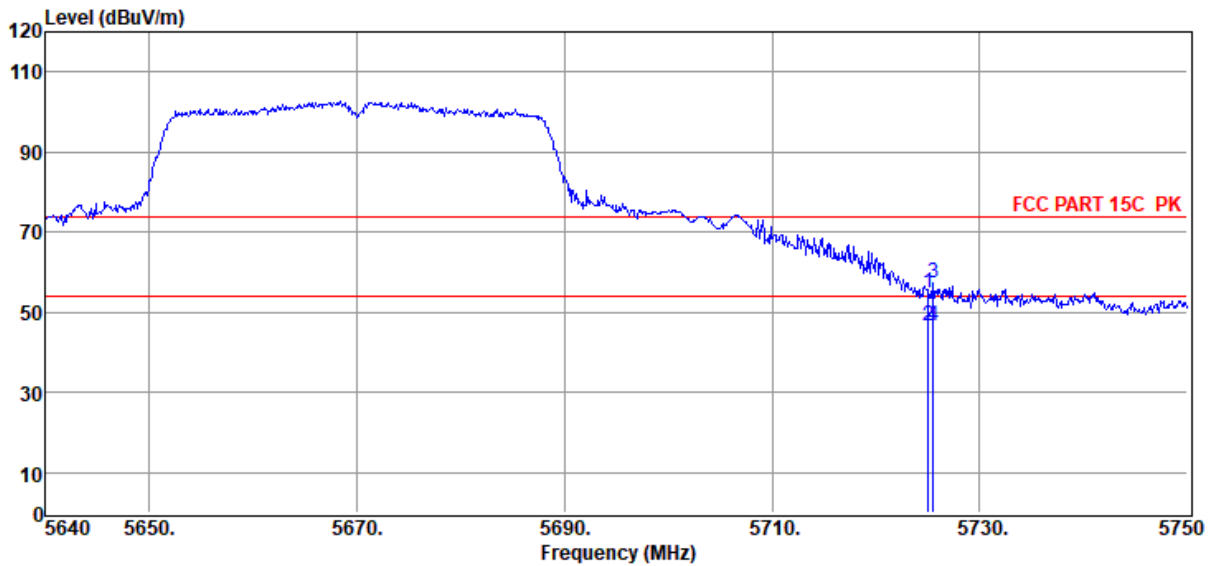
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5459.12	54.90	32.82	40.45	2.57	1.02	50.86	74.00	-23.14	Peak	VERTICAL
2	5459.96	52.50	32.82	40.45	2.57	1.02	48.46	74.00	-25.54	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N40 5670

Data: 91



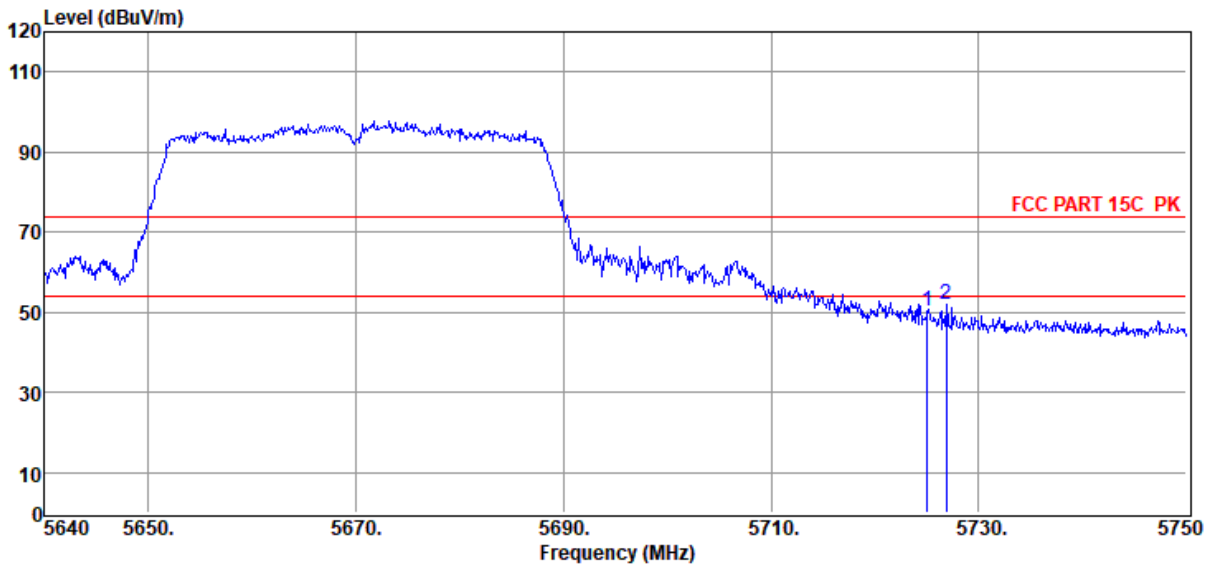
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.03	57.99	33.34	40.47	2.78	1.08	54.72	74.00	-19.28	Peak	HORIZONTAL
2	5725.03	49.92	33.34	40.47	2.78	1.08	46.65	54.00	-7.35	Average	HORIZONTAL
3	5725.47	60.48	33.34	40.47	2.78	1.08	57.21	74.00	-16.79	Peak	HORIZONTAL
4	5725.47	49.76	33.34	40.47	2.78	1.08	46.49	54.00	-7.51	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N40 5670

Data: 92



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.03	53.39	33.34	40.47	2.78	1.08	50.12	74.00	-23.88	Peak	VERTICAL
2	5726.90	55.35	33.34	40.47	2.78	1.08	52.08	74.00	-21.92	Peak	VERTICAL

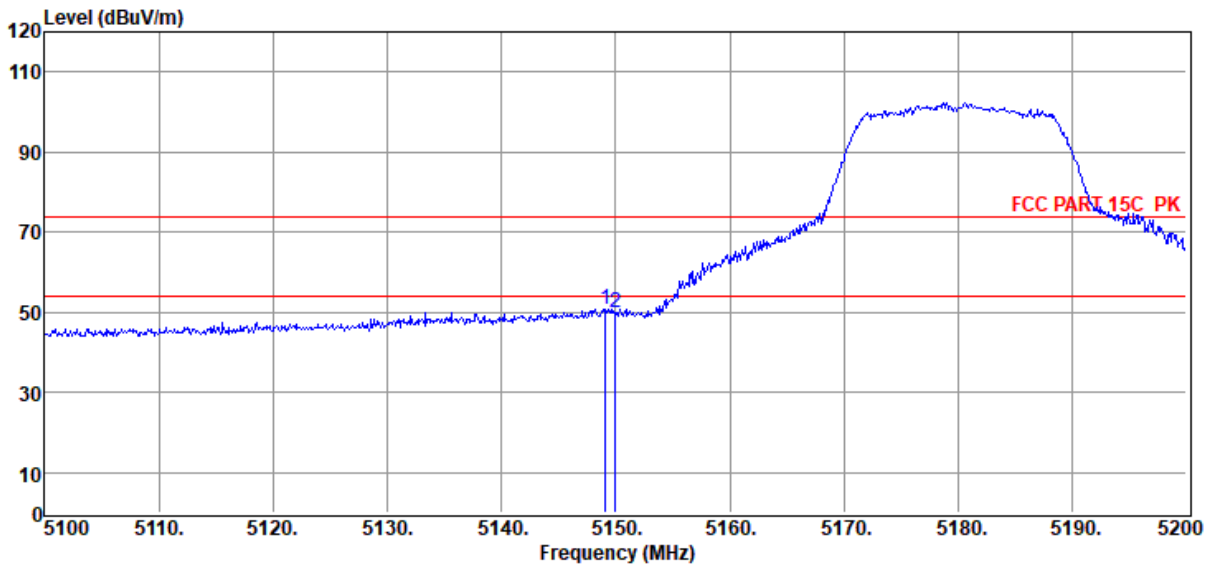
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC20 5180

Data: 5



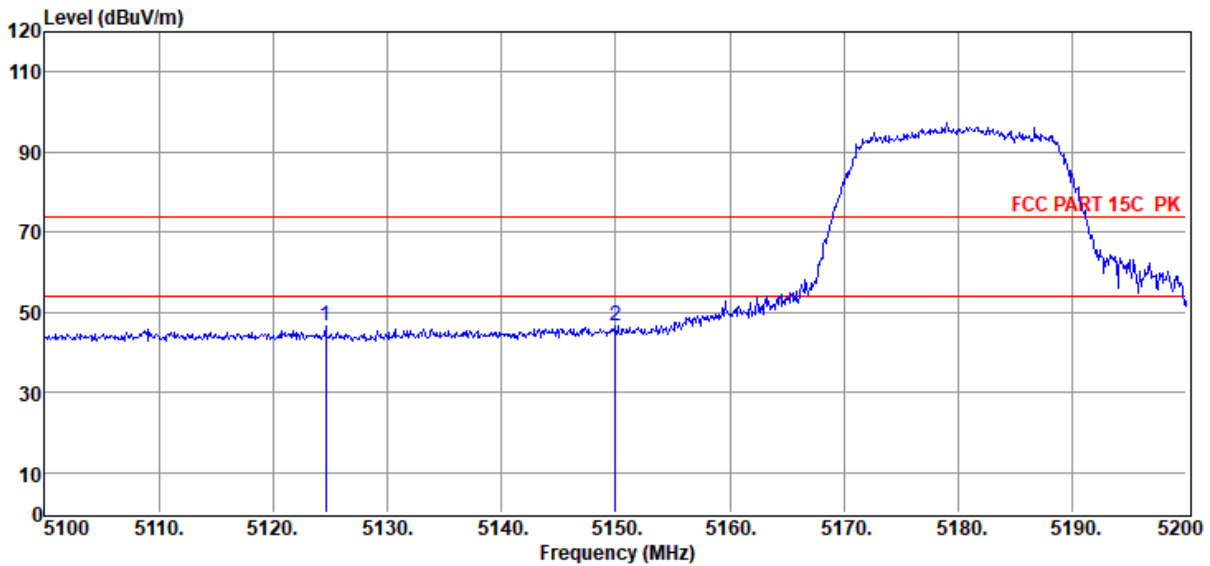
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5149.10	54.70	33.01	40.41	2.55	0.94	50.79	74.00	-23.21	Peak	HORIZONTAL
2	5150.00	53.94	33.01	40.42	2.55	0.94	50.02	74.00	-23.98	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC20 5180

Data: 6



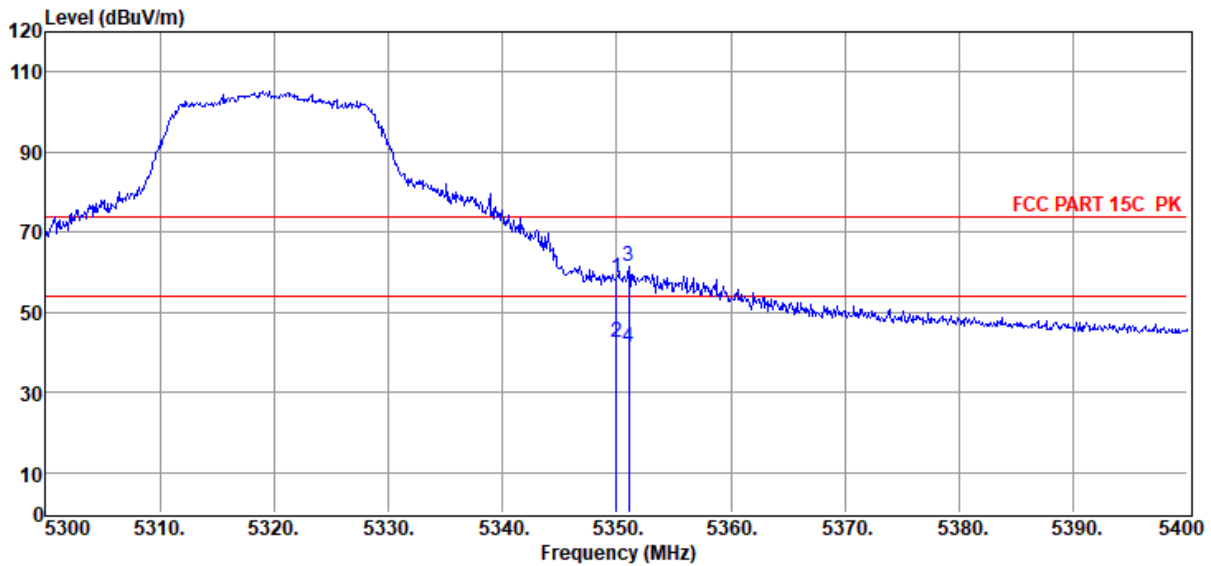
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5124.60	50.32	33.03	40.41	2.55	0.94	46.43	74.00	-27.57	Peak	VERTICAL
2	5150.00	50.52	33.01	40.42	2.55	0.94	46.60	74.00	-27.40	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC20 5320

Data: 11



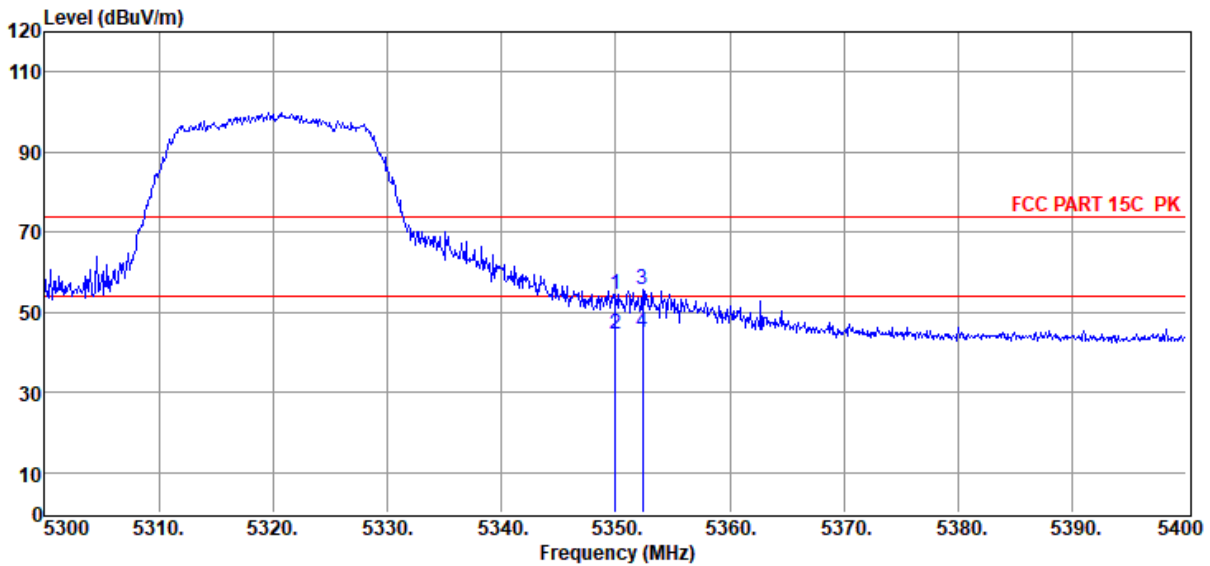
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	62.68	32.89	40.44	2.56	0.99	58.68	74.00	-15.32	Peak	HORIZONTAL
2	5350.00	46.48	32.89	40.44	2.56	0.99	42.48	54.00	-11.52	Average	HORIZONTAL
3	5351.10	65.34	32.89	40.44	2.56	0.99	61.34	74.00	-12.66	Peak	HORIZONTAL
4	5351.10	45.20	32.89	40.44	2.56	0.99	41.20	54.00	-12.80	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC20 5320

Data: 12



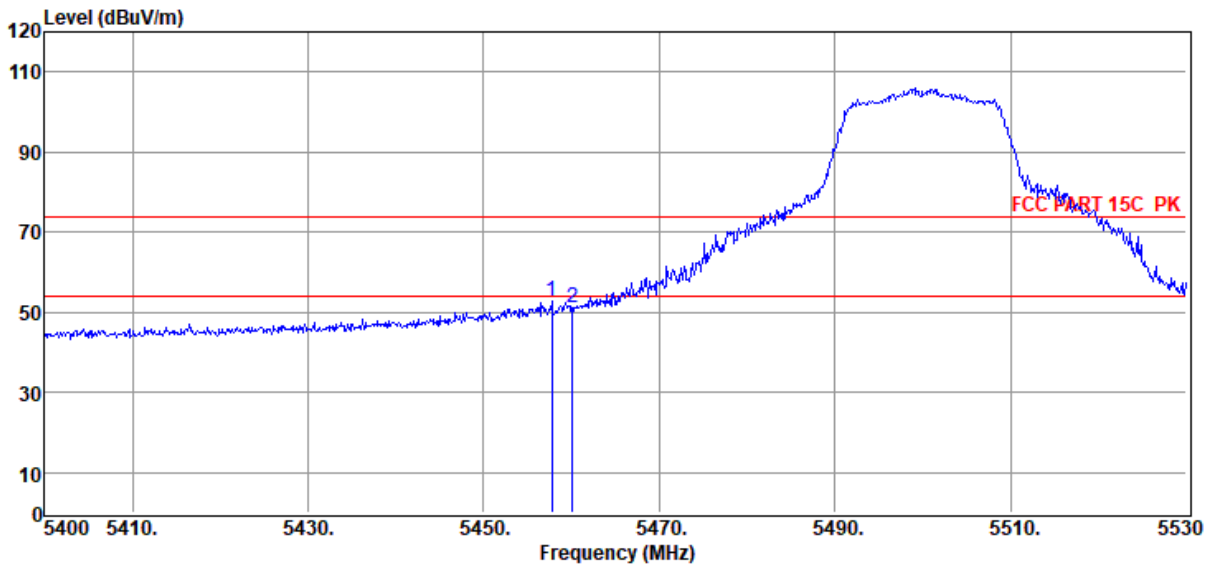
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	58.27	32.89	40.44	2.56	0.99	54.27	74.00	-19.73	Peak	VERTICAL
2	5350.00	48.53	32.89	40.44	2.56	0.99	44.53	54.00	-9.47	Average	VERTICAL
3	5352.40	59.86	32.89	40.44	2.56	0.99	55.86	74.00	-18.14	Peak	VERTICAL
4	5352.40	48.81	32.89	40.44	2.56	0.99	44.81	54.00	-9.19	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC20 5500

Data: 71



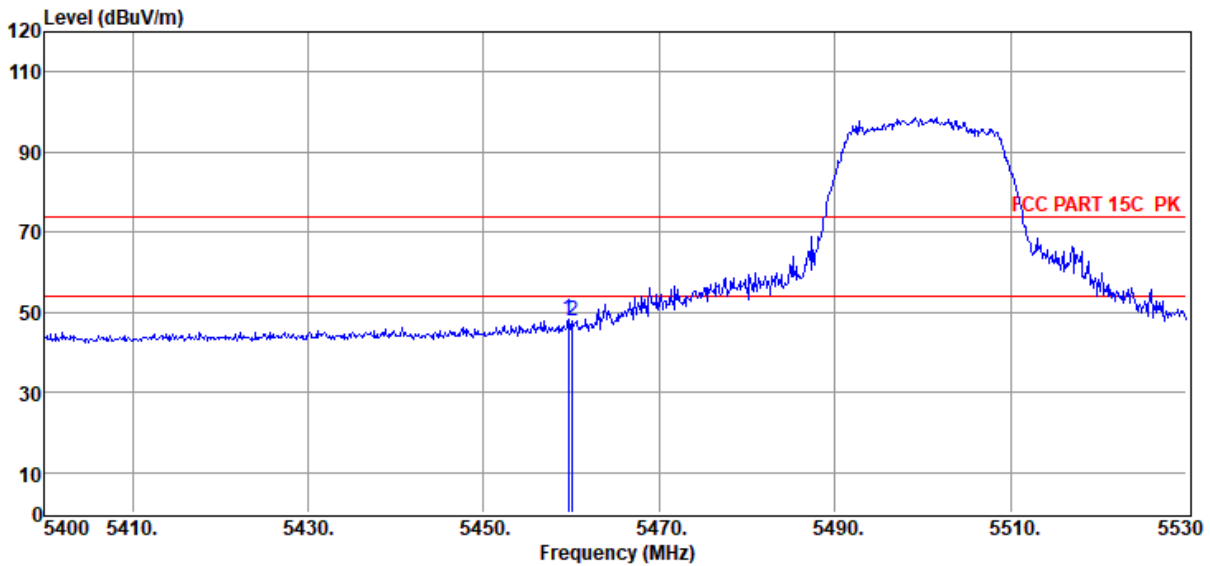
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5457.72	56.80	32.83	40.45	2.57	1.02	52.77	74.00	-21.23	Peak	HORIZONTAL
2	5460.06	55.22	32.82	40.45	2.57	1.02	51.18	74.00	-22.82	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC20 5500

Data: 72



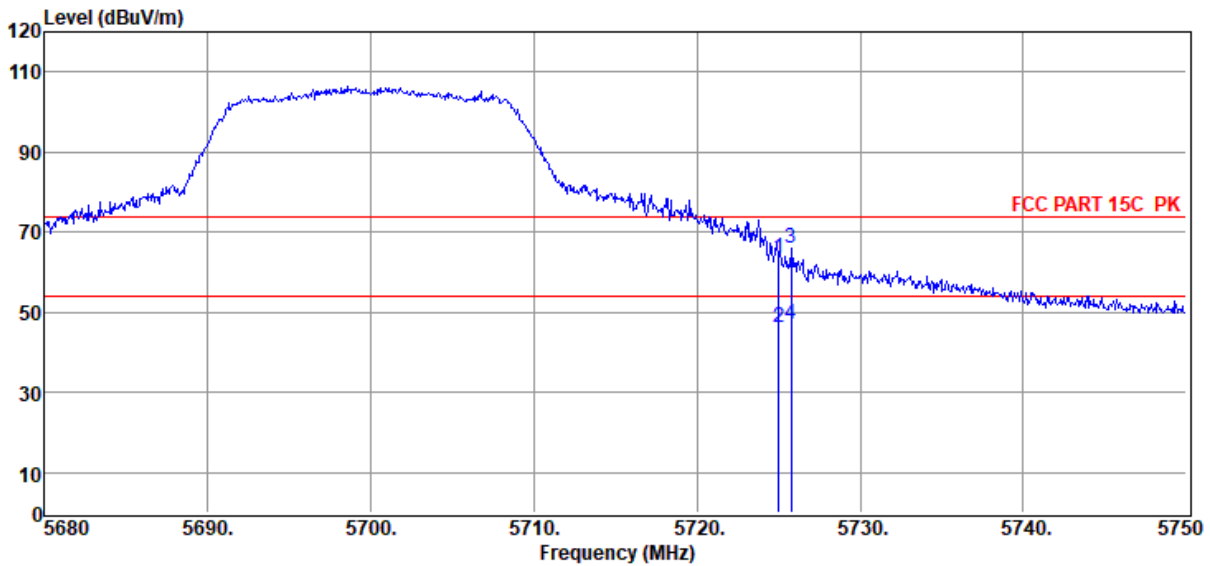
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5459.67	52.10	32.82	40.45	2.57	1.02	48.06	74.00	-25.94	Peak	VERTICAL
2	5460.06	51.69	32.82	40.45	2.57	1.02	47.65	74.00	-26.35	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC20 5700

Data: 77



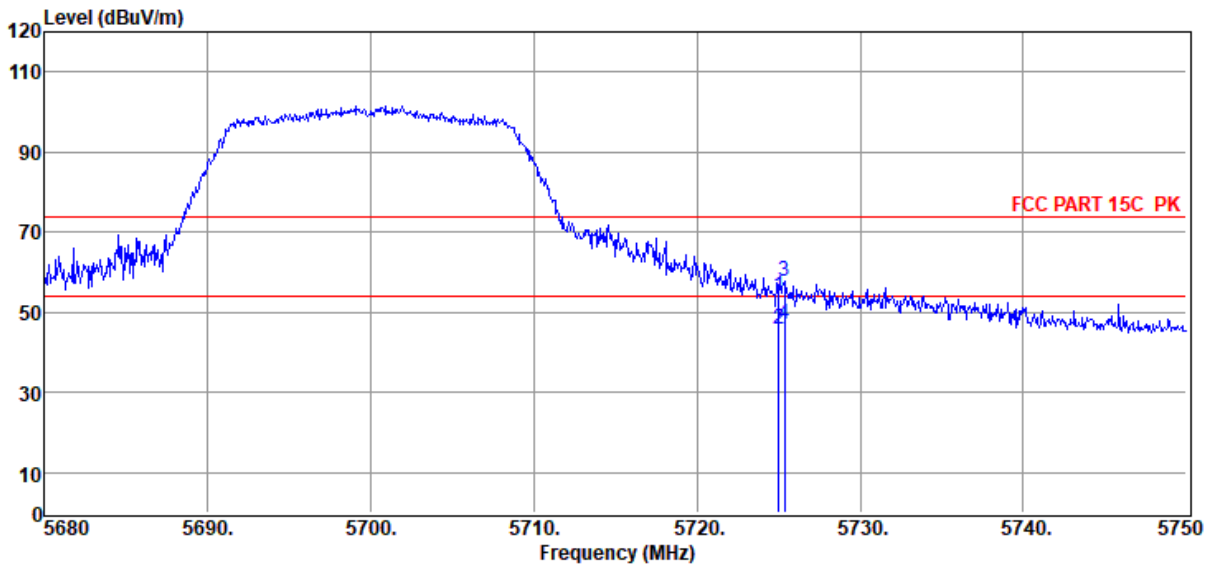
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	66.71	33.34	40.47	2.78	1.08	63.44	74.00	-10.56	Peak	HORIZONTAL
2	5725.01	49.40	33.34	40.47	2.78	1.08	46.13	54.00	-7.87	Average	HORIZONTAL
3	5725.78	69.26	33.34	40.47	2.78	1.08	65.99	74.00	-8.01	Peak	HORIZONTAL
4	5725.78	50.28	33.34	40.47	2.78	1.08	47.01	54.00	-6.99	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC20 5700

Data: 78



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	57.12	33.34	40.47	2.78	1.08	53.85	74.00	-20.15	Peak	VERTICAL
2	5725.01	49.01	33.34	40.47	2.78	1.08	45.74	54.00	-8.26	Average	VERTICAL
3	5725.36	60.84	33.34	40.47	2.78	1.08	57.57	74.00	-16.43	Peak	VERTICAL
4	5725.36	50.13	33.34	40.47	2.78	1.08	46.86	54.00	-7.14	Average	VERTICAL

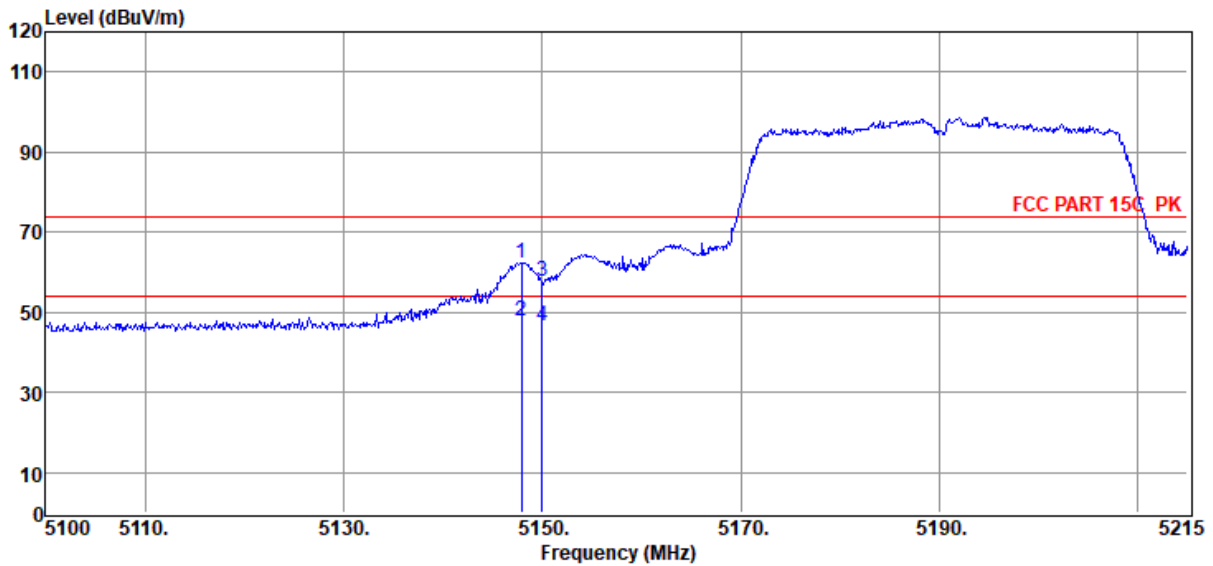
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC40 5190

Data: 81



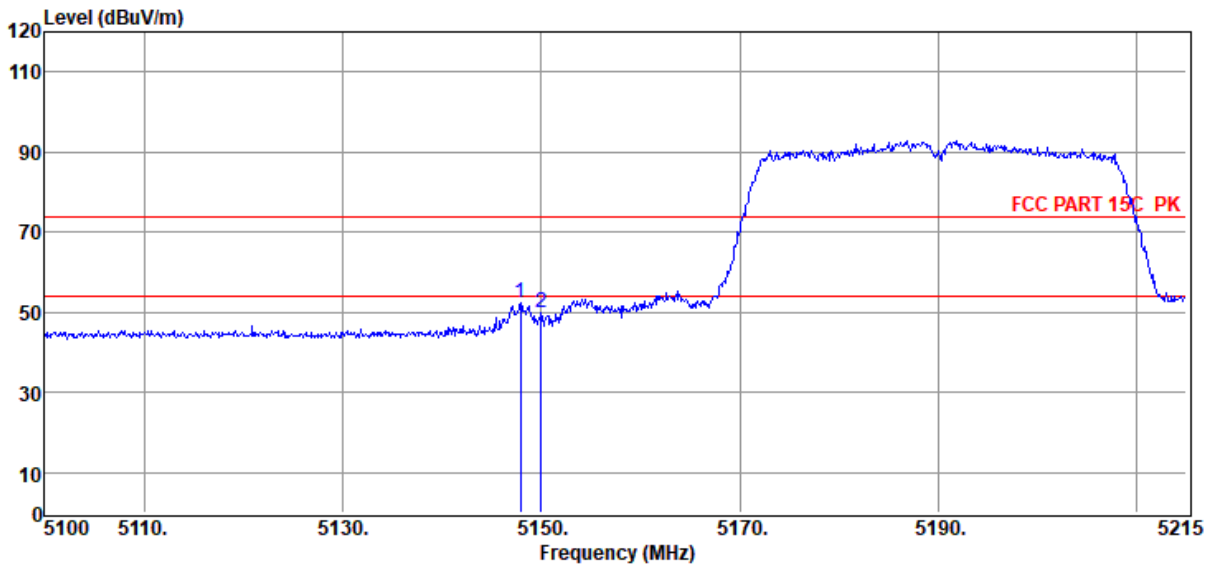
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5147.96	66.37	33.01	40.41	2.55	0.94	62.46	74.00	-11.54	Peak	HORIZONTAL
2	5147.96	51.74	33.01	40.41	2.55	0.94	47.83	54.00	-6.17	Average	HORIZONTAL
3	5150.03	61.76	33.01	40.42	2.55	0.94	57.84	74.00	-16.16	Peak	HORIZONTAL
4	5150.03	50.62	33.01	40.42	2.55	0.94	46.70	54.00	-7.30	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC40 5190

Data: 82



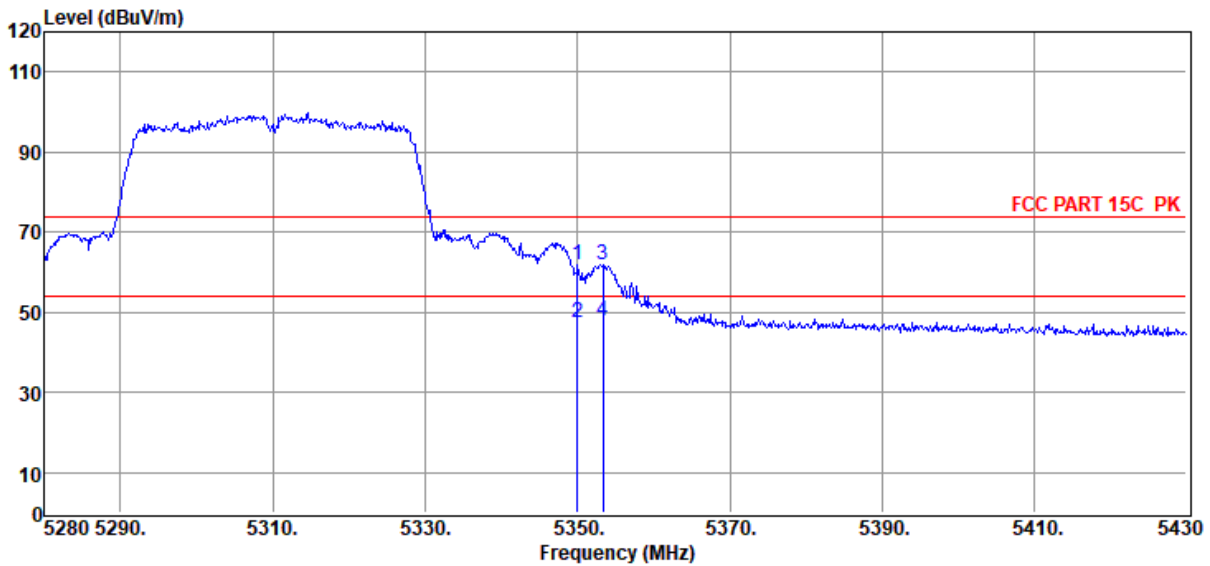
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5147.96	56.34	33.01	40.41	2.55	0.94	52.43	74.00	-21.57	Peak	VERTICAL
2	5150.03	54.00	33.01	40.42	2.55	0.94	50.08	74.00	-23.92	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC40 5310

Data: 85



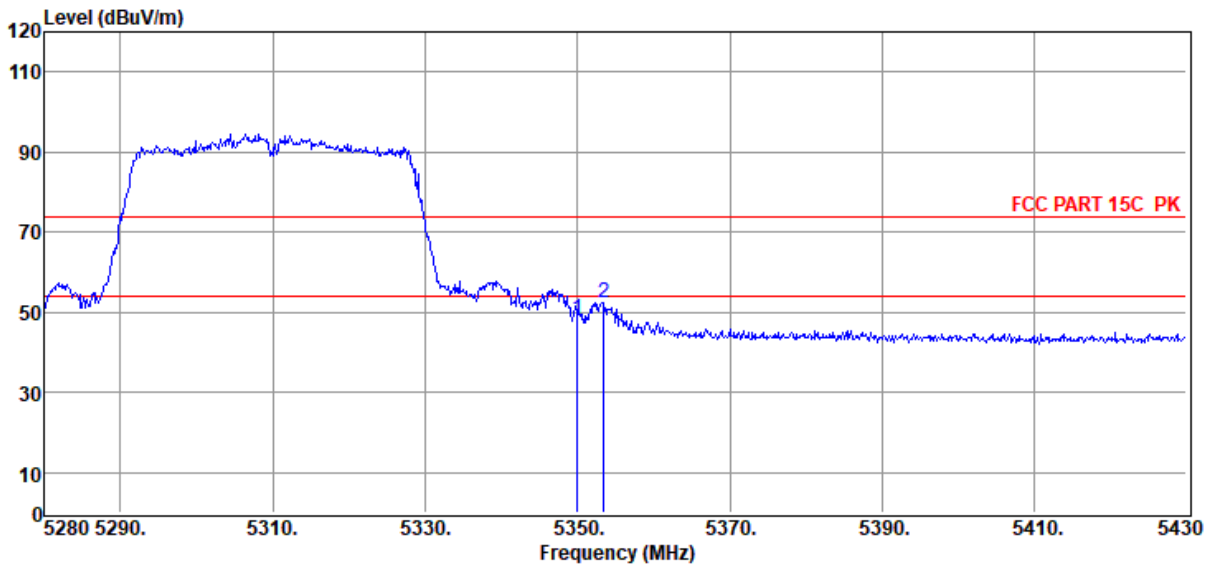
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.05	65.98	32.89	40.44	2.56	0.99	61.98	74.00	-12.02	Peak	HORIZONTAL
2	5350.05	51.43	32.89	40.44	2.56	0.99	47.43	54.00	-6.57	Average	HORIZONTAL
3	5353.35	65.98	32.89	40.44	2.56	0.99	61.98	74.00	-12.02	Peak	HORIZONTAL
4	5353.35	51.83	32.89	40.44	2.56	0.99	47.83	54.00	-6.17	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC40 5310

Data: 86



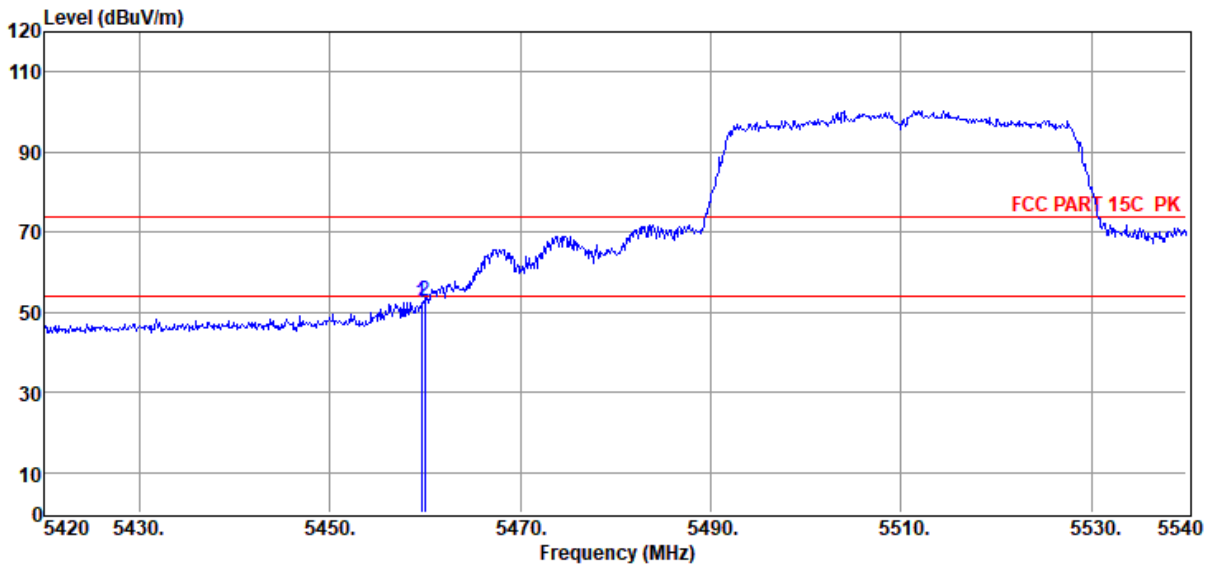
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.05	52.31	32.89	40.44	2.56	0.99	48.31	74.00	-25.69	Peak	VERTICAL
2	5353.50	56.56	32.89	40.44	2.56	0.99	52.56	74.00	-21.44	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC40 5510

Data: 89



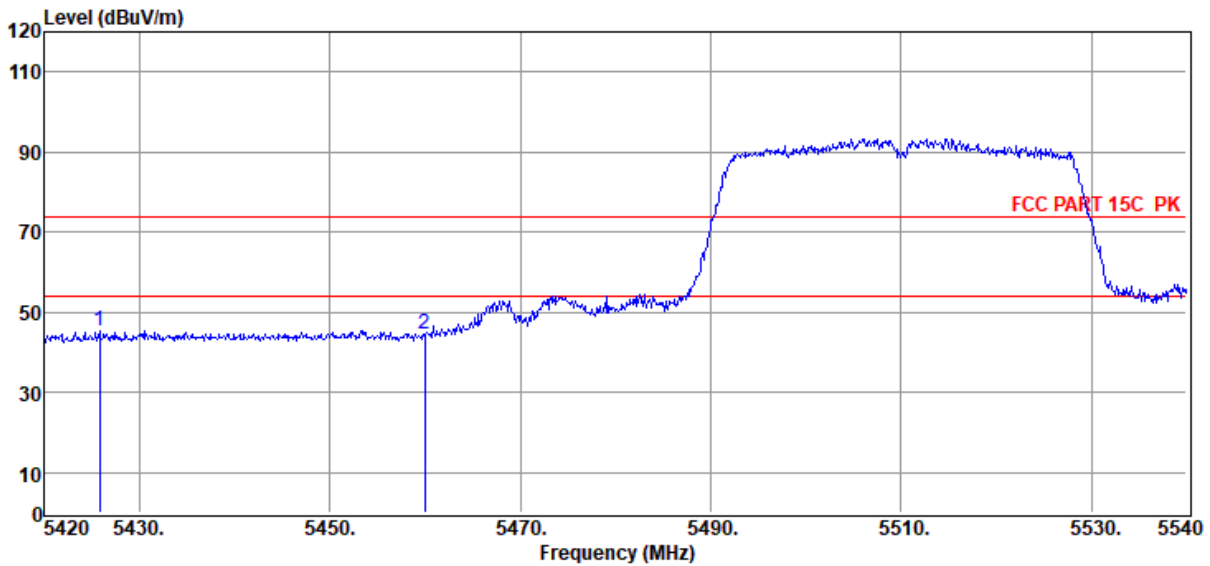
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5459.60	56.44	32.82	40.45	2.57	1.02	52.40	74.00	-21.60	Peak	HORIZONTAL
2	5459.96	56.86	32.82	40.45	2.57	1.02	52.82	74.00	-21.18	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC40 5510

Data: 90



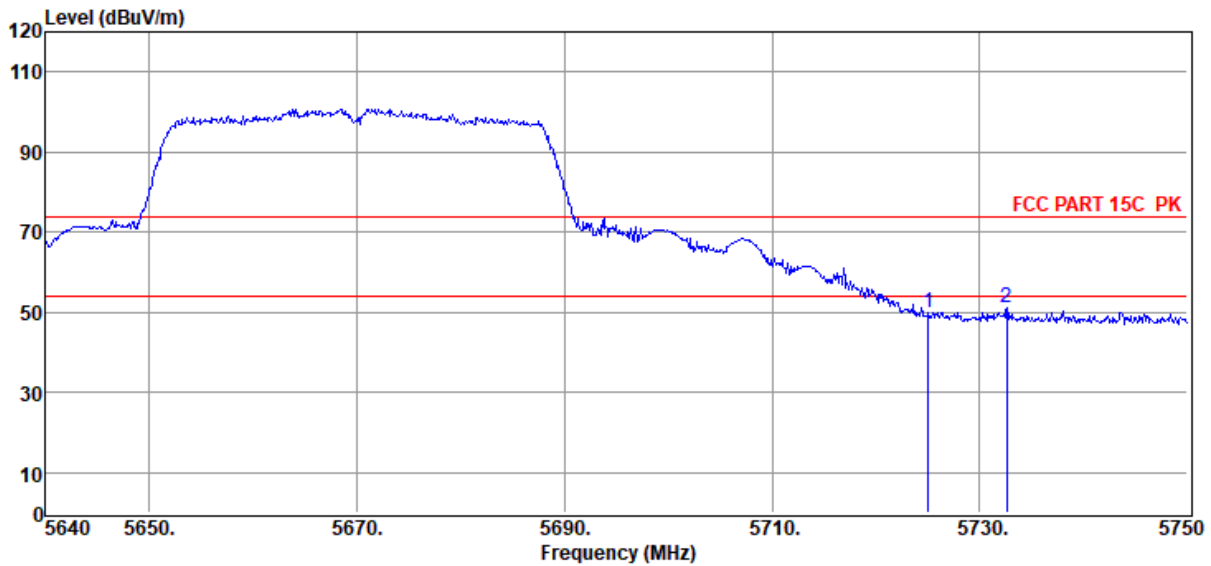
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5425.76	49.28	32.84	40.44	2.57	1.01	45.26	74.00	-28.74	Peak	VERTICAL
2	5459.96	48.45	32.82	40.45	2.57	1.02	44.41	74.00	-29.59	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC40 5670

Data: 93



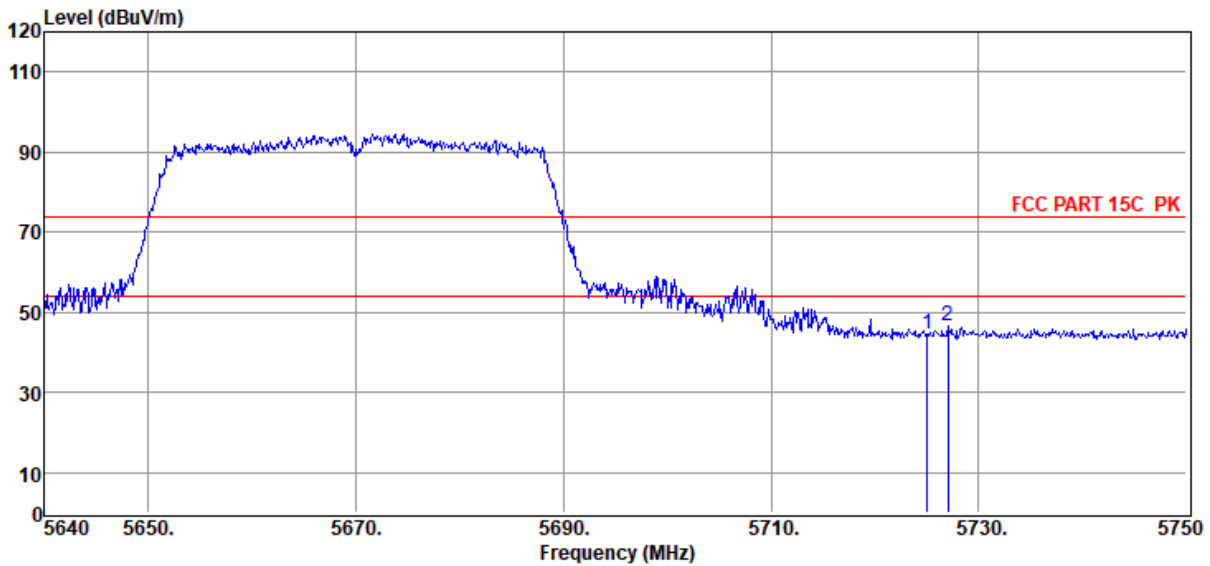
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.03	53.27	33.34	40.47	2.78	1.08	50.00	74.00	-24.00	Peak	HORIZONTAL
2	5732.62	54.18	33.36	40.47	2.78	1.08	50.93	74.00	-23.07	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC40 5670

Data: 94



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.03	47.84	33.34	40.47	2.78	1.08	44.57	74.00	-29.43	Peak	VERTICAL
2	5727.01	49.94	33.34	40.47	2.78	1.08	46.67	74.00	-27.33	Peak	VERTICAL

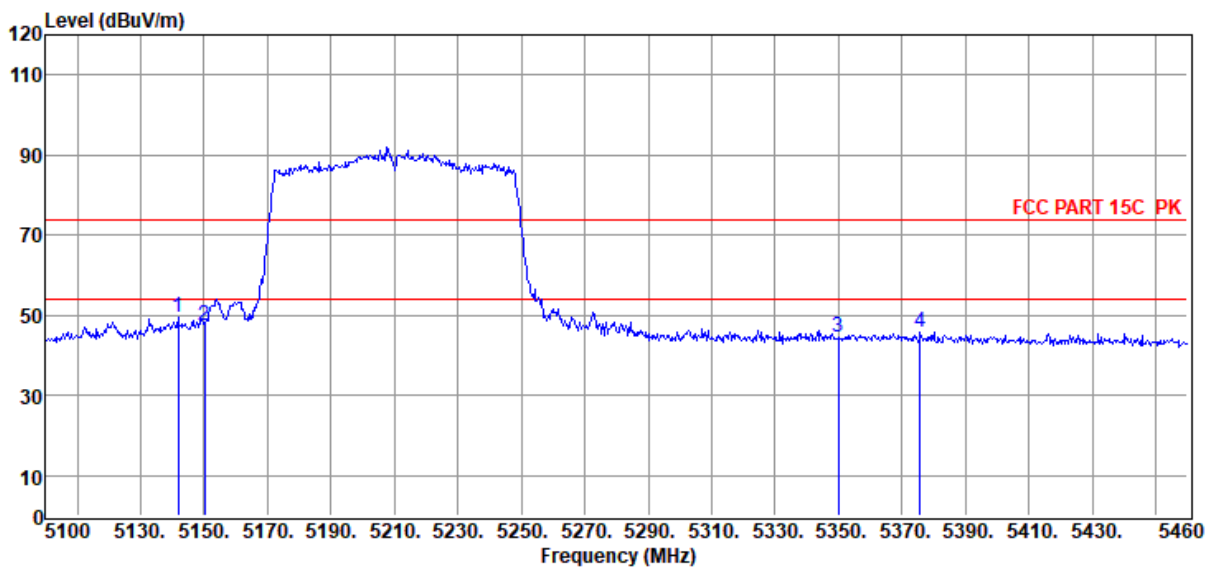
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC80 5210

Data: 17



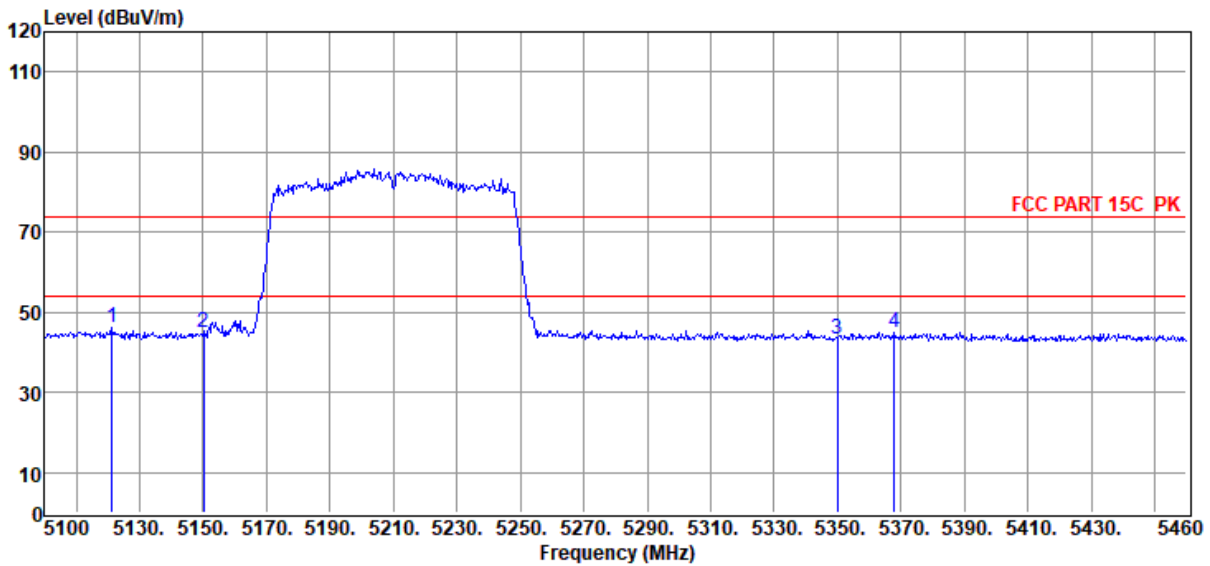
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5141.76	53.41	33.01	40.41	2.55	0.94	49.50	74.00	-24.50	Peak	HORIZONTAL
2	5150.04	51.36	33.01	40.42	2.55	0.94	47.44	74.00	-26.56	Peak	HORIZONTAL
3	5349.84	48.40	32.89	40.43	2.56	0.99	44.41	74.00	-29.59	Peak	HORIZONTAL
4	5375.76	49.65	32.87	40.44	2.56	1.00	45.64	74.00	-28.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC80 5210

Data: 18



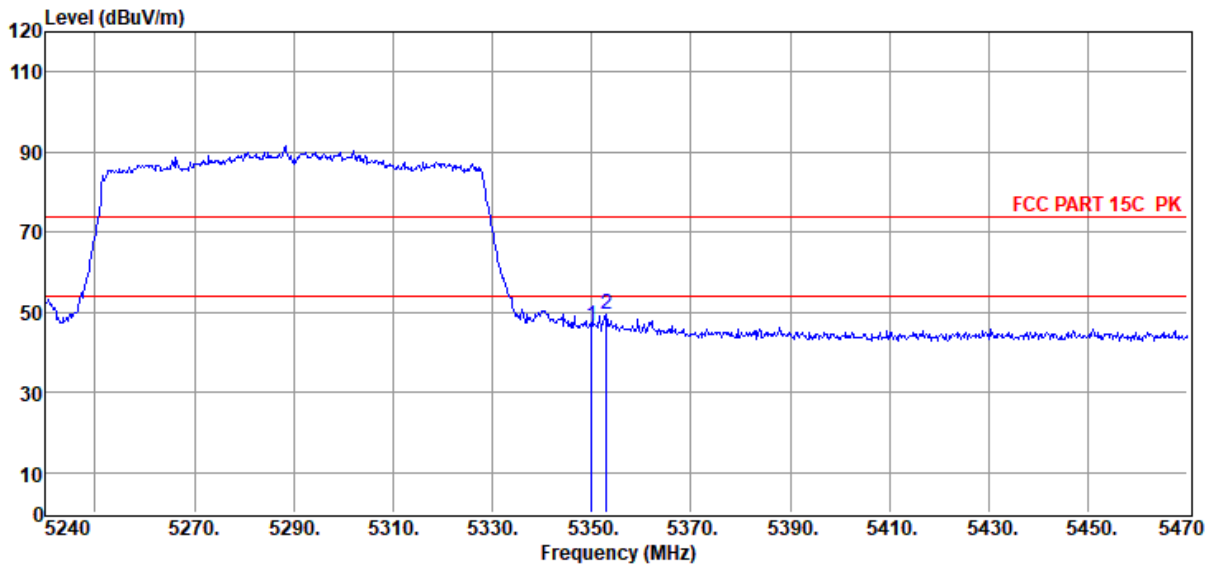
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5121.24	49.94	33.03	40.41	2.55	0.94	46.05	74.00	-27.95	Peak	VERTICAL
2	5150.04	48.93	33.01	40.42	2.55	0.94	45.01	74.00	-28.99	Peak	VERTICAL
3	5350.00	47.32	32.89	40.44	2.56	0.99	43.32	74.00	-30.68	Peak	VERTICAL
4	5367.84	48.98	32.88	40.44	2.56	0.99	44.97	74.00	-29.03	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC80 5290

Data: 95



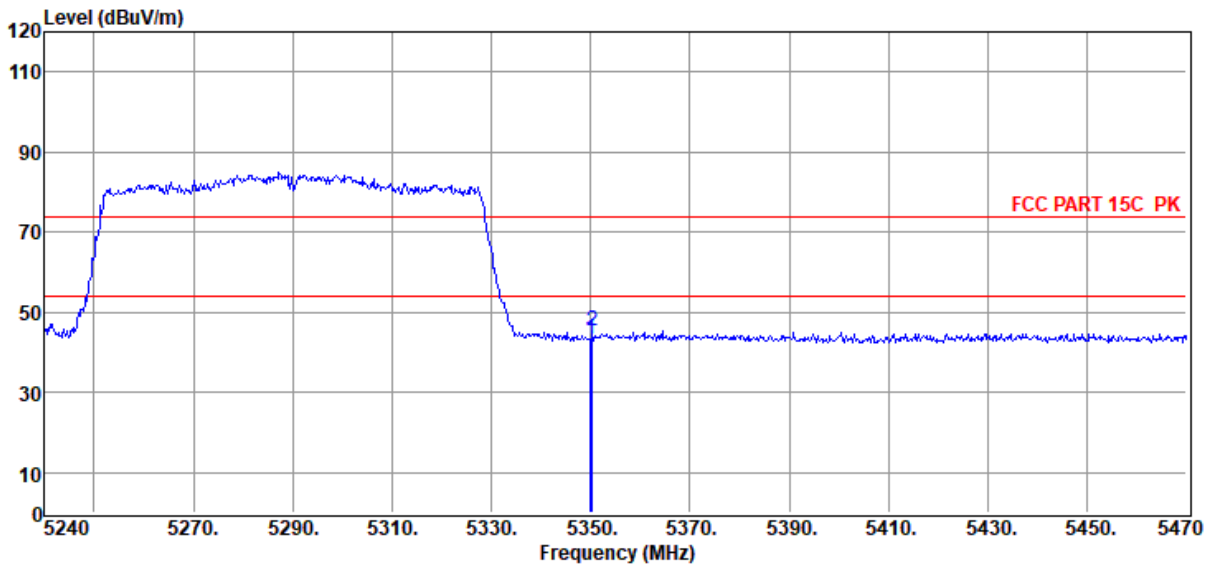
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5349.94	50.73	32.89	40.43	2.56	0.99	46.74	74.00	-27.26	Peak	HORIZONTAL
2	5352.93	53.65	32.89	40.44	2.56	0.99	49.65	74.00	-24.35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC80 5290

Data: 96



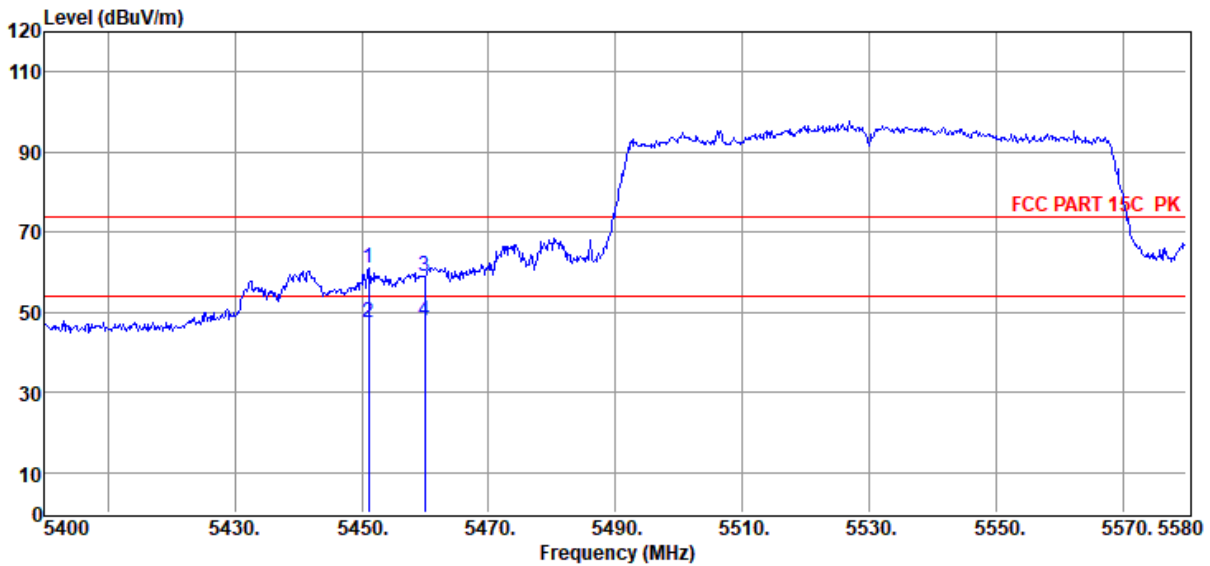
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5349.94	47.08	32.89	40.43	2.56	0.99	43.09	74.00	-30.91	Peak	VERTICAL
2	5350.40	49.48	32.89	40.44	2.56	0.99	45.48	74.00	-28.52	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC80 5530

Data: 97



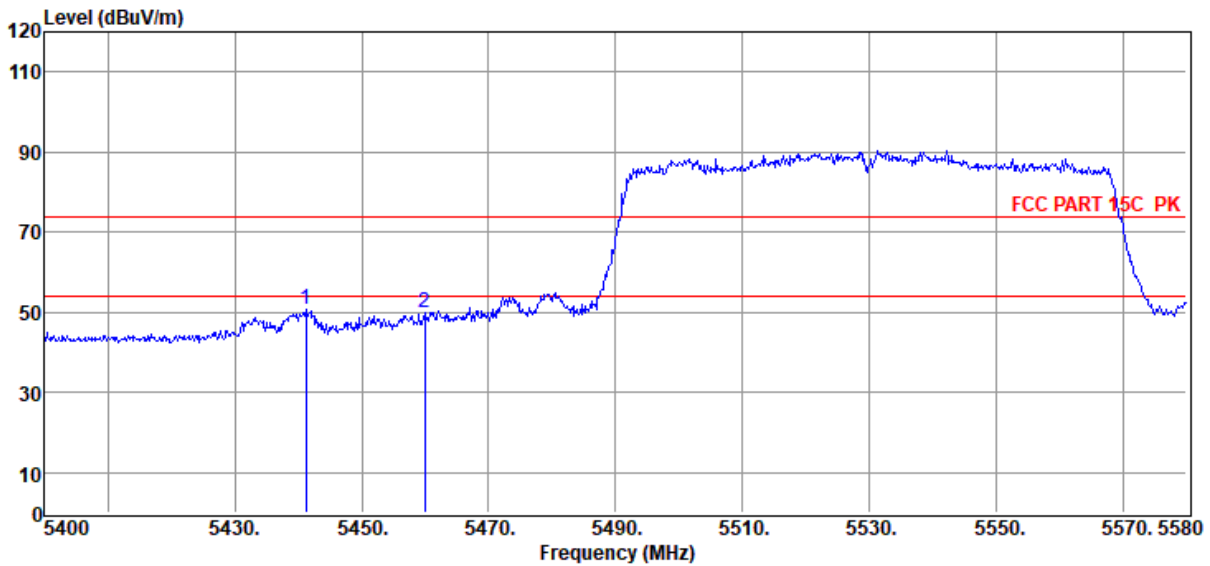
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5451.12	65.19	32.83	40.45	2.57	1.01	61.15	74.00	-12.85	Peak	HORIZONTAL
2	5451.12	51.35	32.83	40.45	2.57	1.01	47.31	54.00	-6.69	Average	HORIZONTAL
3	5459.94	63.00	32.82	40.45	2.57	1.02	58.96	74.00	-15.04	Peak	HORIZONTAL
4	5459.94	51.85	32.82	40.45	2.57	1.02	47.81	54.00	-6.19	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC80 5530

Data: 98



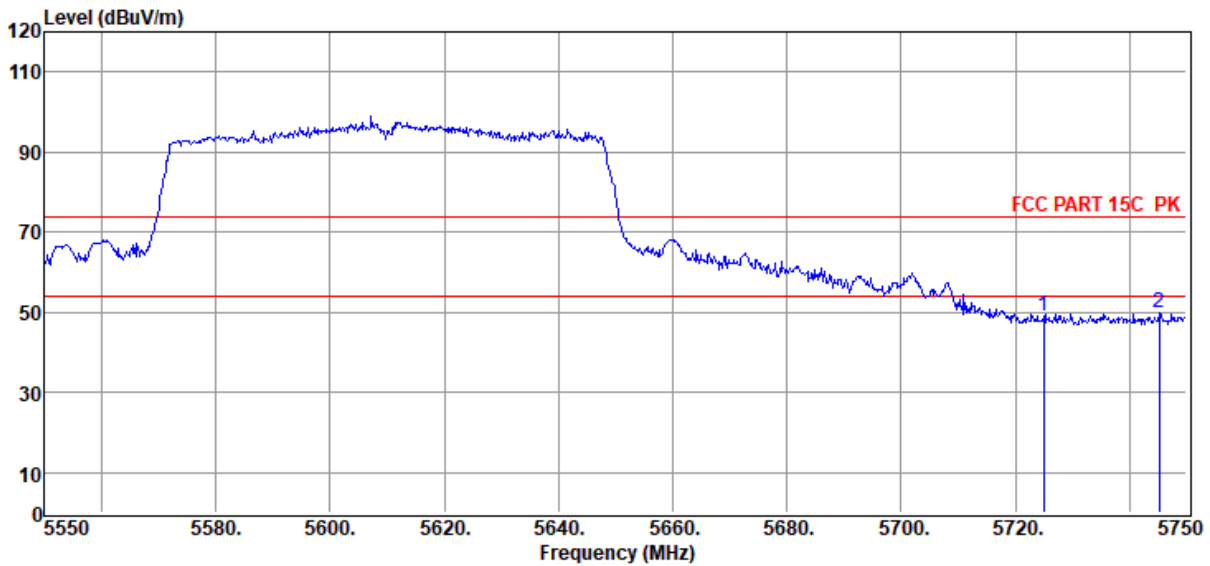
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5441.22	54.58	32.84	40.44	2.57	1.01	50.56	74.00	-23.44	Peak	VERTICAL
2	5459.94	53.86	32.82	40.45	2.57	1.02	49.82	74.00	-24.18	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11AC80 5610

Data: 99



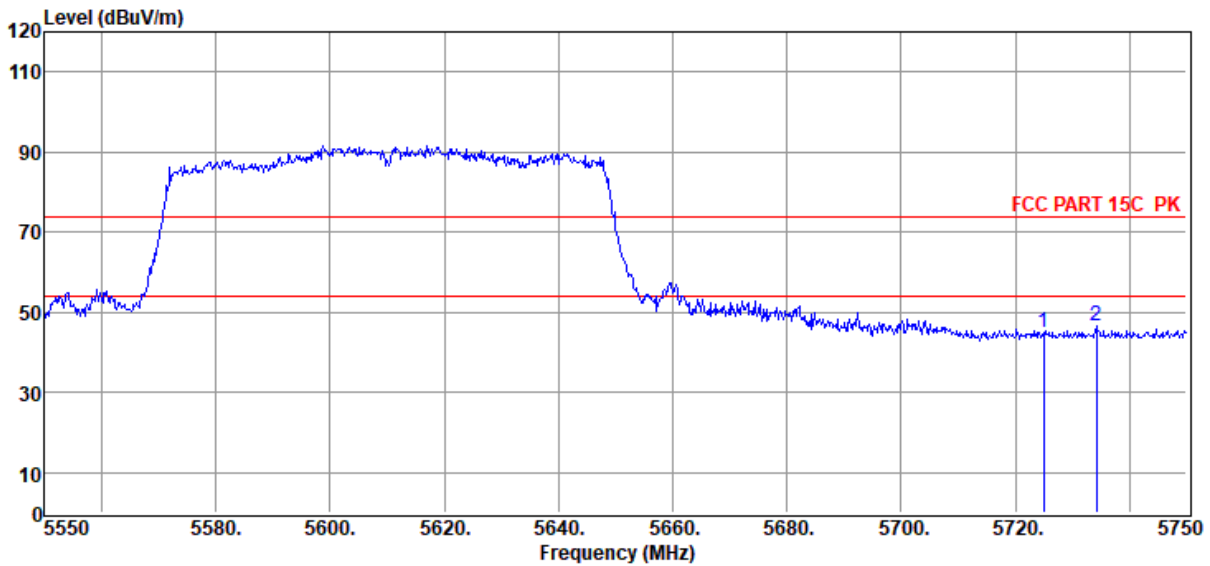
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	52.40	33.34	40.47	2.78	1.08	49.13	74.00	-24.87	Peak	HORIZONTAL
2	5745.20	53.11	33.39	40.47	2.80	1.08	49.91	74.00	-24.09	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - 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 3# D:\E3 6.111\2022 Report Data\Q22072104-2E VIFA013\FCC ABOVE 1G 5G.EM6  
**Test Date** : 2022-08-05 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : Temp:23.1°C,Humi:51.5%,Press:100.3kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11AC80 5610

Data: 100

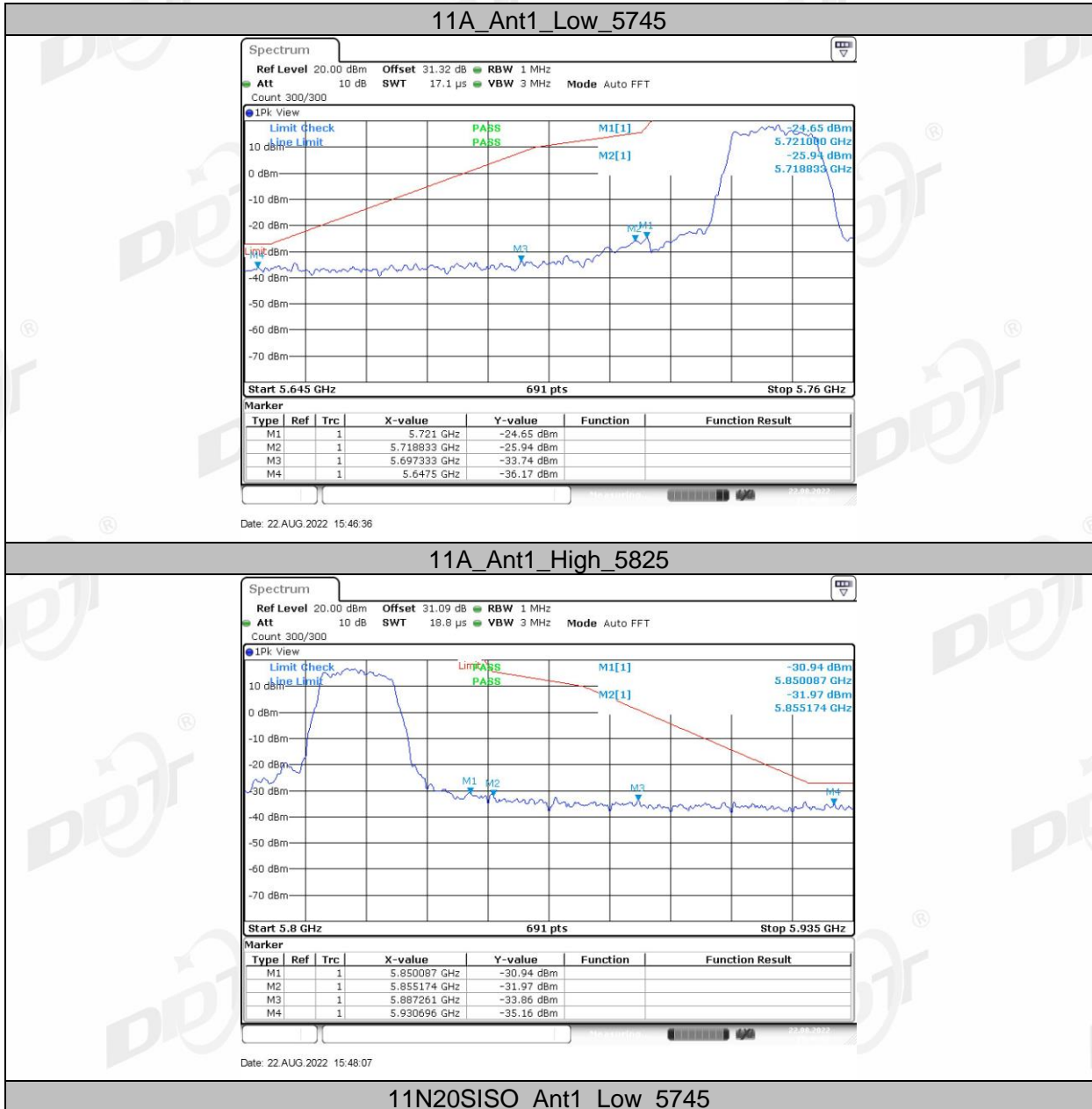


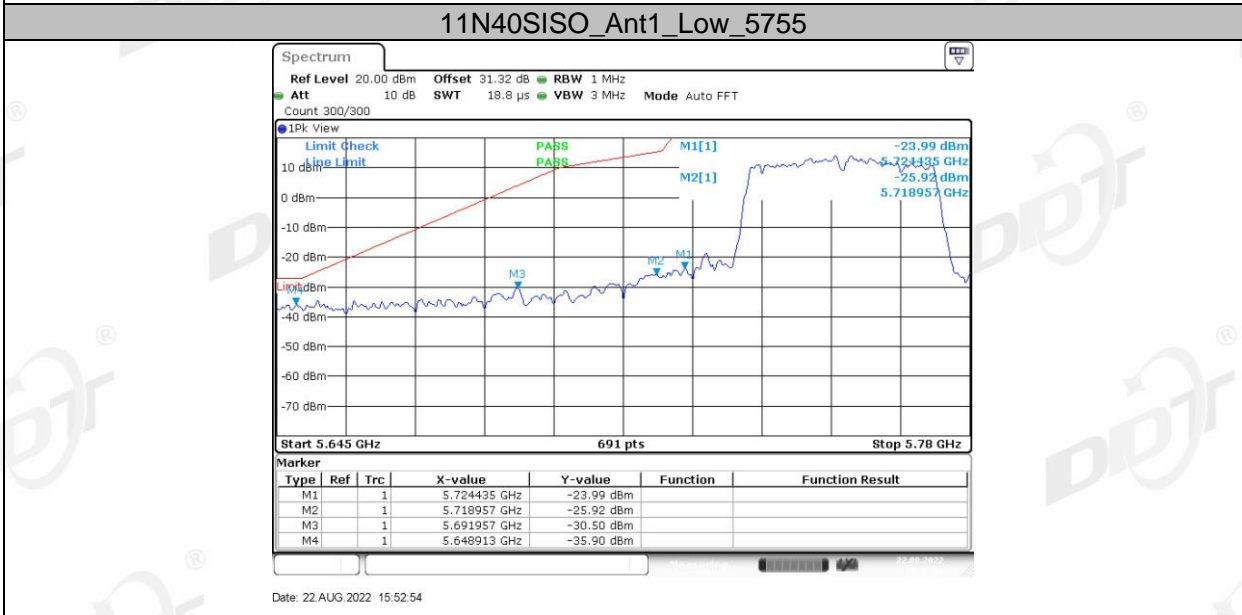
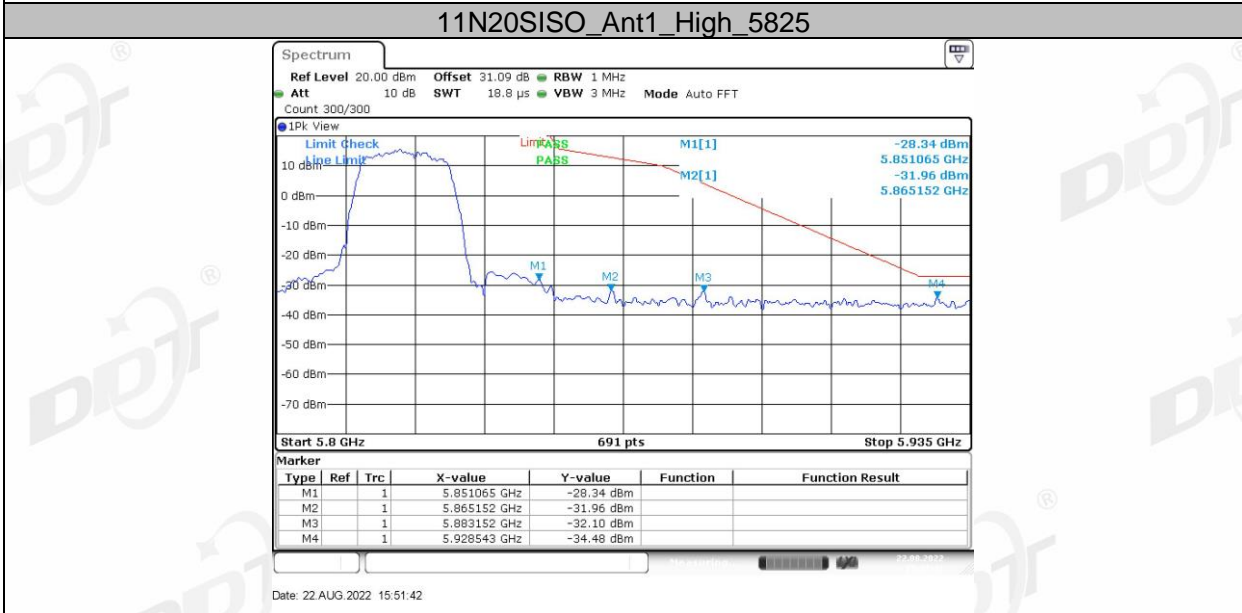
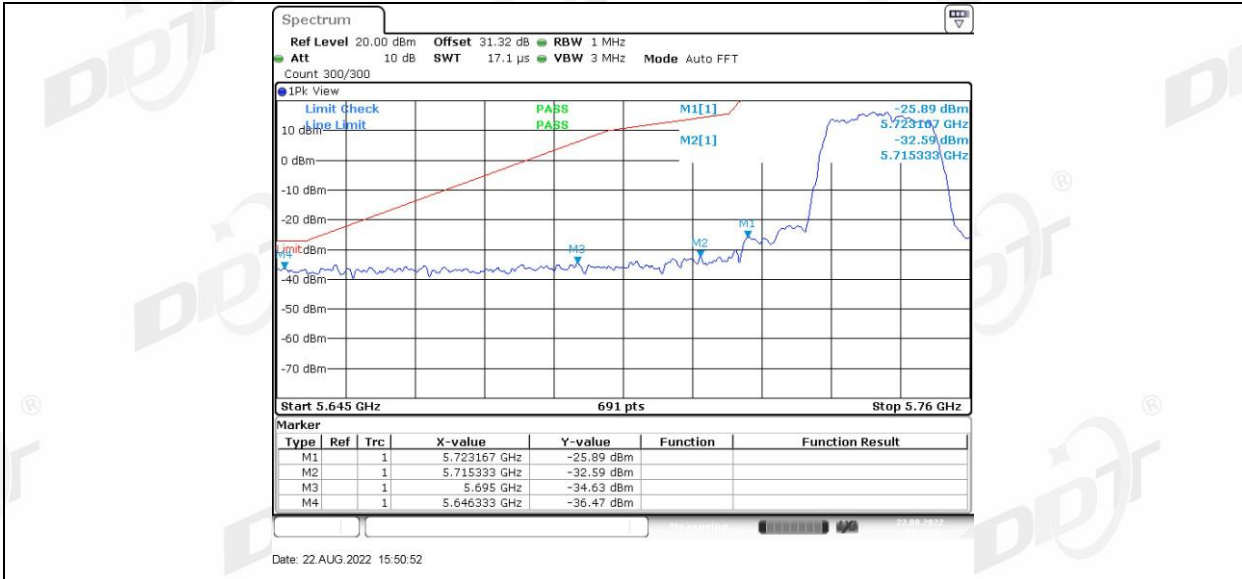
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	48.24	33.34	40.47	2.78	1.08	44.97	74.00	-29.03	Peak	VERTICAL
2	5734.20	49.86	33.36	40.47	2.79	1.08	46.62	74.00	-27.38	Peak	VERTICAL

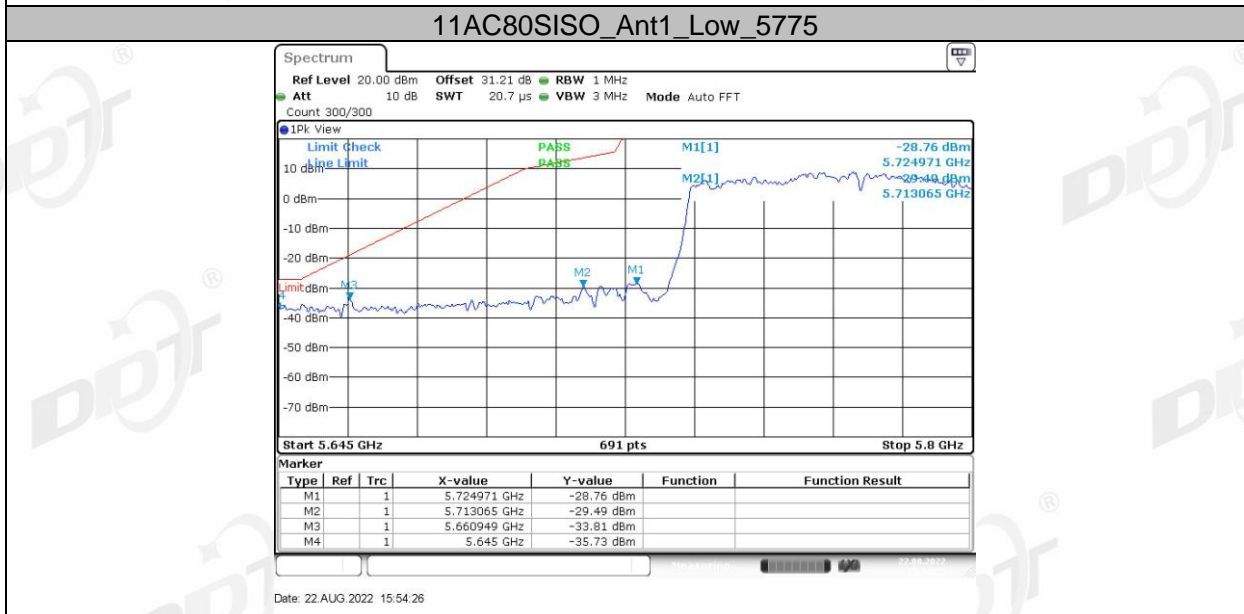
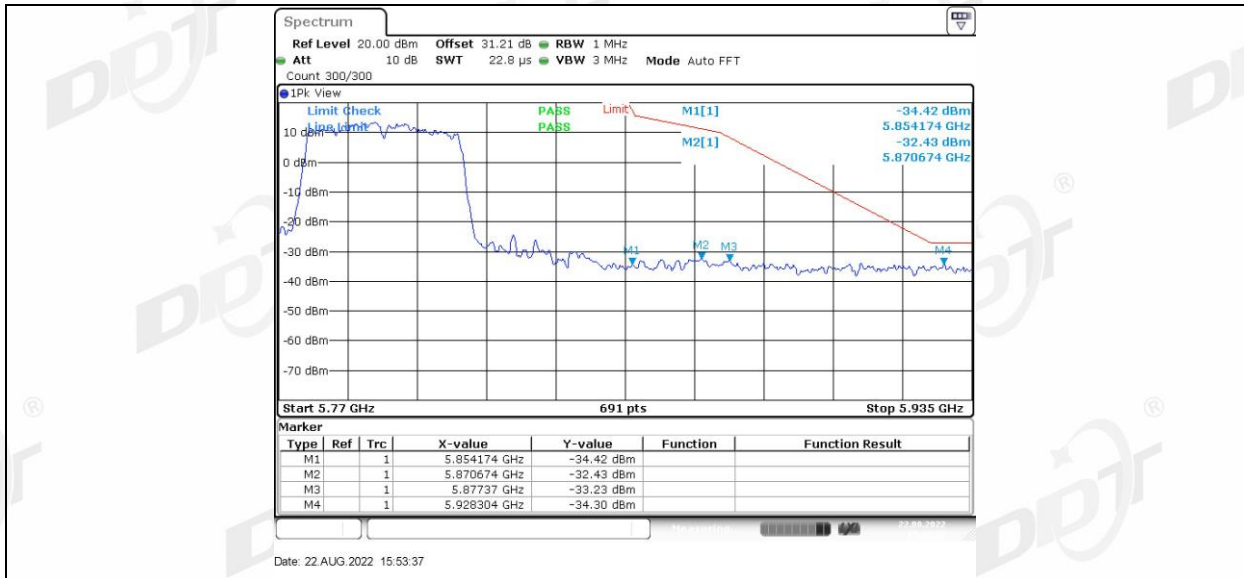
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



Note: All of case have been reviewed and record for the worst data.

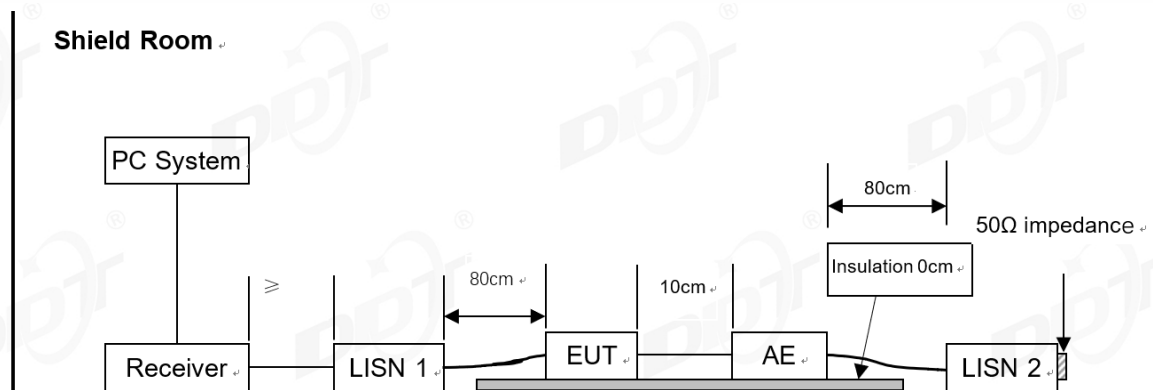






## 10. Power Line Conducted Emission

### 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.

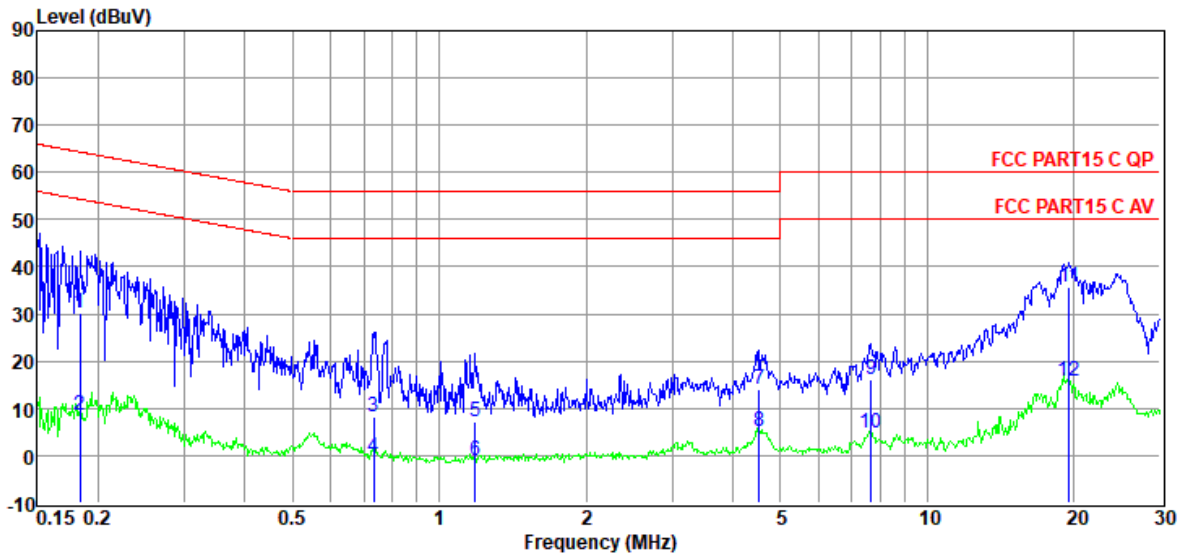
Note2: "----" means peak detection; "----" means average detection

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case (AC 120V/60Hz).

# TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room **D:\2022 CE report date\Q22072104-2E VIFA013\FCC.EM6**  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : TEMP:23.8°C, RH:62.0%, BP:101.2kPa **LISN** : 2021 1# ENV216/NEUTRAL  
**Memo** :

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Detector	Phase
1	0.18	10.63	9.80	0.01	9.92	30.36	64.33	-33.97	QP	NEUTRAL
2	0.18	-11.04	9.80	0.01	9.92	8.69	54.33	-45.64	Average	NEUTRAL
3	0.74	-11.49	9.79	0.03	9.91	8.24	56.00	-47.76	QP	NEUTRAL
4	0.74	-20.18	9.79	0.03	9.91	-0.45	46.00	-46.45	Average	NEUTRAL
5	1.18	-12.53	9.68	0.03	9.89	7.07	56.00	-48.93	QP	NEUTRAL
6	1.18	-20.54	9.68	0.03	9.89	-0.94	46.00	-46.94	Average	NEUTRAL
7	4.53	-5.64	9.76	0.06	9.92	14.10	56.00	-41.90	QP	NEUTRAL
8	4.53	-14.66	9.76	0.06	9.92	5.08	46.00	-40.92	Average	NEUTRAL
9	7.69	-3.61	9.65	0.09	9.94	16.07	60.00	-43.93	QP	NEUTRAL
10	7.69	-14.87	9.65	0.09	9.94	4.81	50.00	-45.19	Average	NEUTRAL
11	19.53	15.67	9.78	0.17	9.96	35.58	60.00	-24.42	QP	NEUTRAL
12	19.53	-4.12	9.78	0.17	9.96	15.79	50.00	-34.21	Average	NEUTRAL

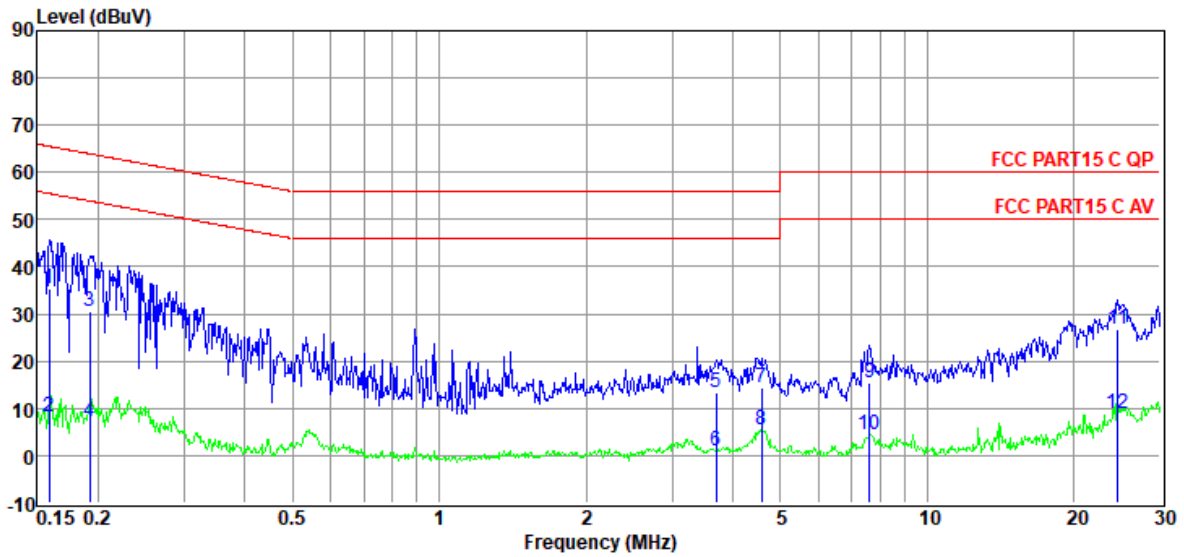
Note:

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.

# TR-4-E-010 Conducted Emission Test Result

**Test Site** : DDT 1# Shield Room **D:\2022 CE report date\Q22072104-2E VIFA013\FCC.EM6**  
**Test Date** : 2022-08-04 **Tested By** : Bairong  
**EUT** : ACTIVE WIRELESS SPEAKER **Model Number** : VIFA013  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx mode  
**Condition** : TEMP:23.8°C, RH:62.0%, BP:101.2kPa **LISN** : 2021 1# ENV216/LINE  
**Memo** :

Data: 16



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	0.16	15.70	9.64	0.01	9.92	35.27	65.52	-30.25	QP	LINE
2	0.16	-11.33	9.64	0.01	9.92	8.24	55.52	-47.28	Average	LINE
3	0.19	10.69	9.77	0.01	9.92	30.39	63.93	-33.54	QP	LINE
4	0.19	-12.64	9.77	0.01	9.92	7.06	53.93	-46.87	Average	LINE
5	3.70	-6.28	9.59	0.05	9.92	13.28	56.00	-42.72	QP	LINE
6	3.70	-18.63	9.59	0.05	9.92	0.93	46.00	-45.07	Average	LINE
7	4.57	-5.00	9.58	0.06	9.92	14.56	56.00	-41.44	QP	LINE
8	4.57	-14.23	9.58	0.06	9.92	5.33	46.00	-40.67	Average	LINE
9	7.61	-4.00	9.50	0.09	9.94	15.53	60.00	-44.47	QP	LINE
10	7.61	-15.20	9.50	0.09	9.94	4.33	50.00	-45.67	Average	LINE
11	24.53	6.80	9.65	0.19	9.98	26.62	60.00	-33.38	QP	LINE
12	24.53	-11.03	9.65	0.19	9.98	8.79	50.00	-41.21	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.

## 11. Dynamic Frequency Selection

### 11.1. Applicability of DFS requirements

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

Requirement	Operational Mode		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> Client with Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

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

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



## 11.2. Limit

### (1) DFS Detection Thresholds

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

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

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For SISO devices refer to KDB Publication 662911 D01.

### (2) DFS Response Requirements

Table 4: DFS Response Requirement Values

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

## 11.3. Parameters of radar test waveforms

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

Table 5 Short Pulse Radar Test Waveforms

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

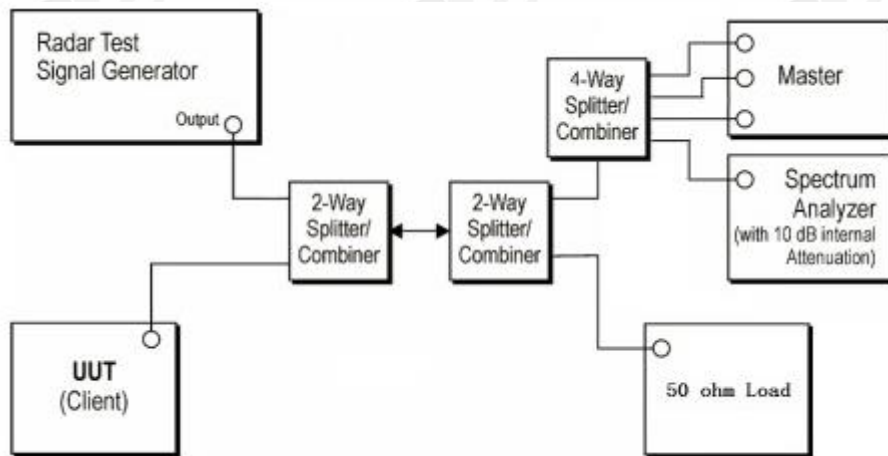
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are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

#### 11.4. Calibration of radar waveform

Radar Waveform Calibration Procedure:

- (1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- (2) The interference Radar Detection Threshold Level is  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$  that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset  $-1.0\text{dB}$  to compensate RF cable loss  $1.0\text{dB}$ .
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar waveform.

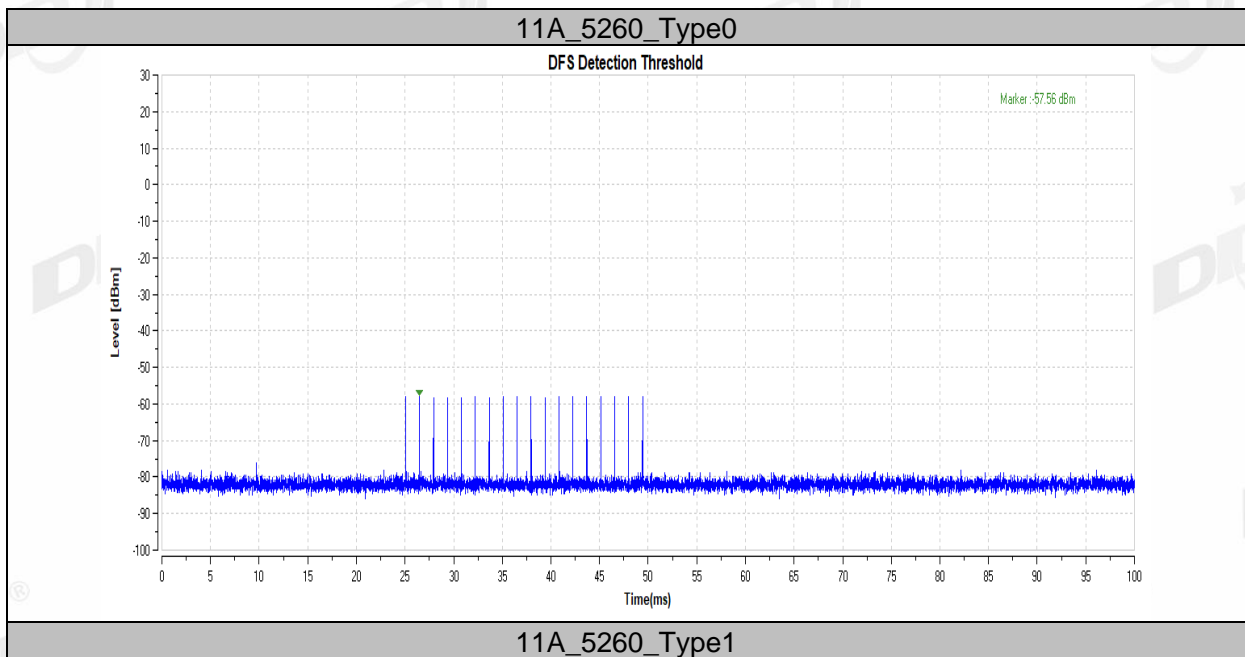
Conducted Calibration Setup:

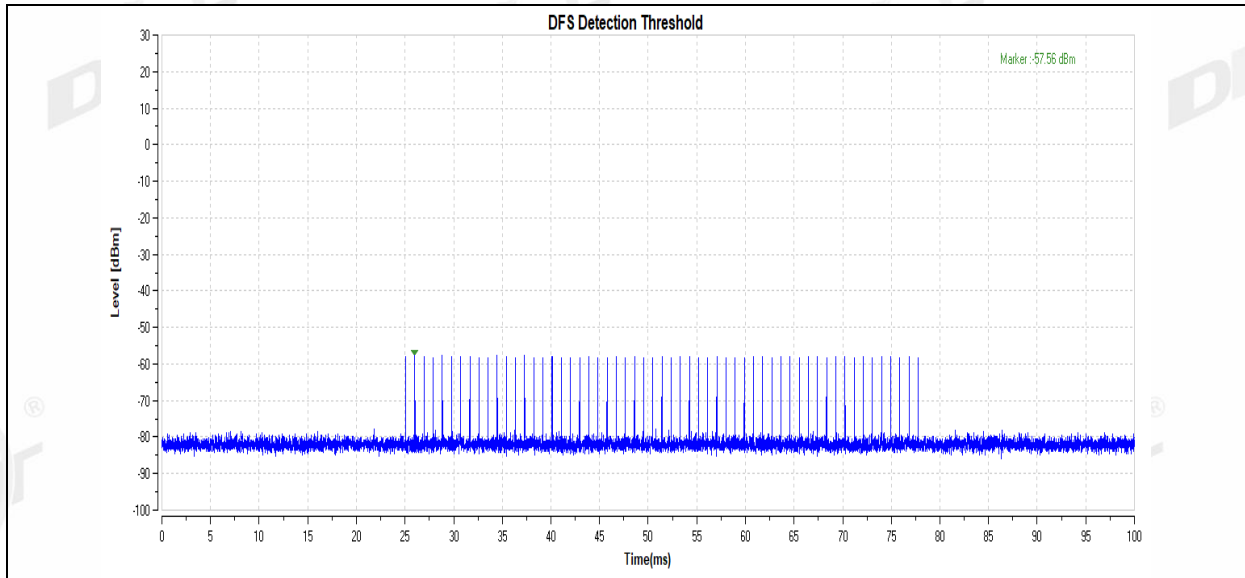


Note: 1. Use the software "Web" to set the frequency channel.

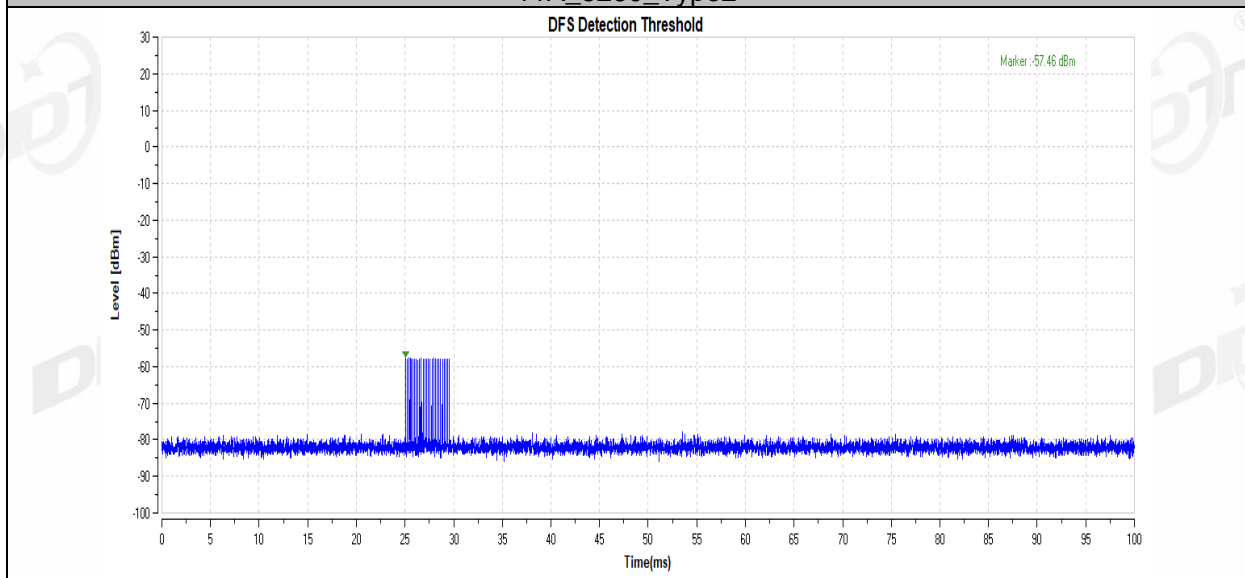
2. EUT is not support TPC and not with Radar detection.

Radar Waveform Calibration Result:

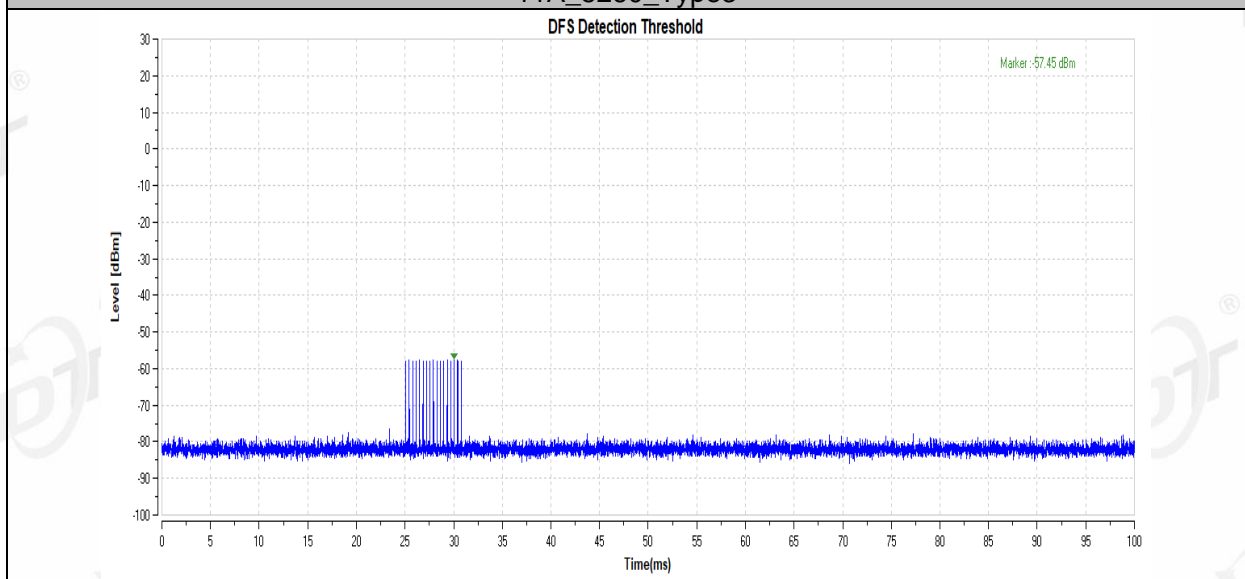




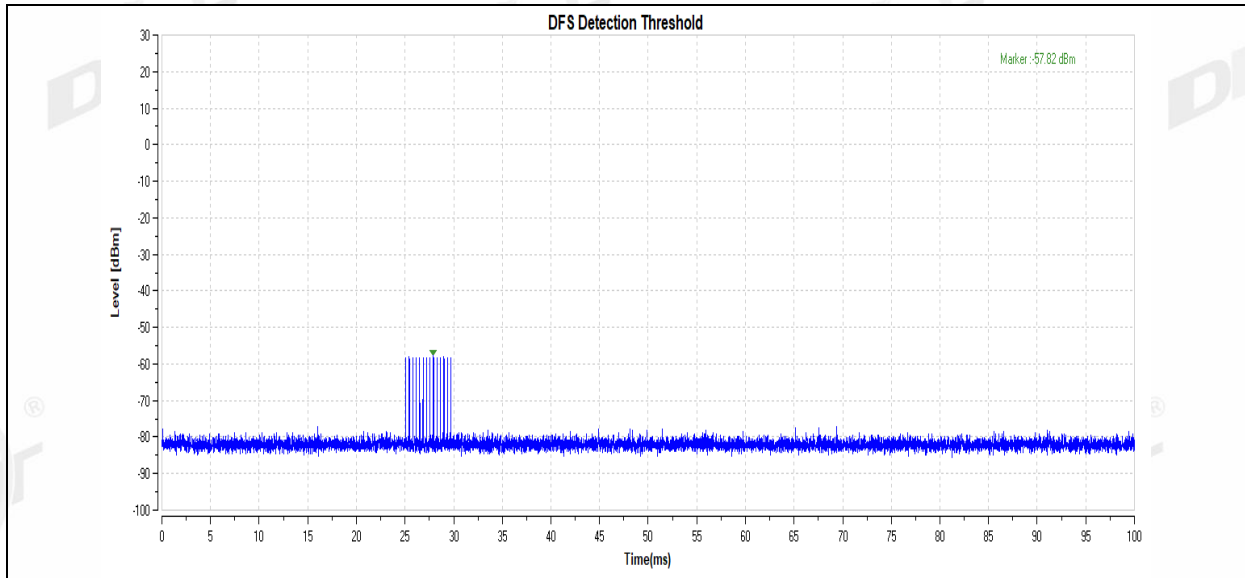
11A\_5260\_Type2



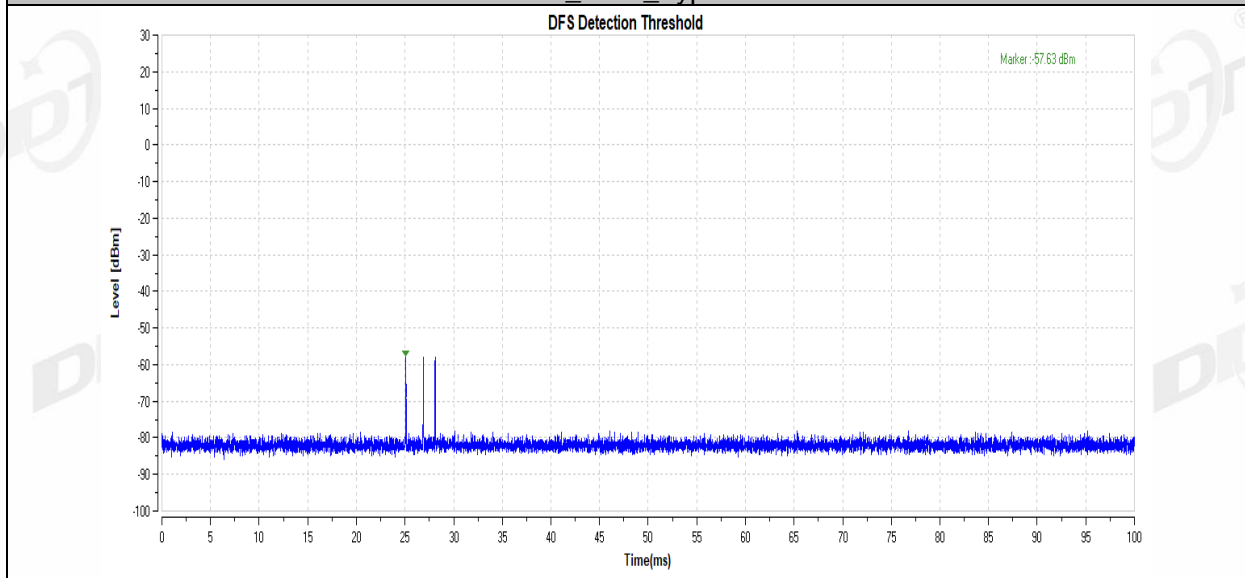
11A\_5260\_Type3



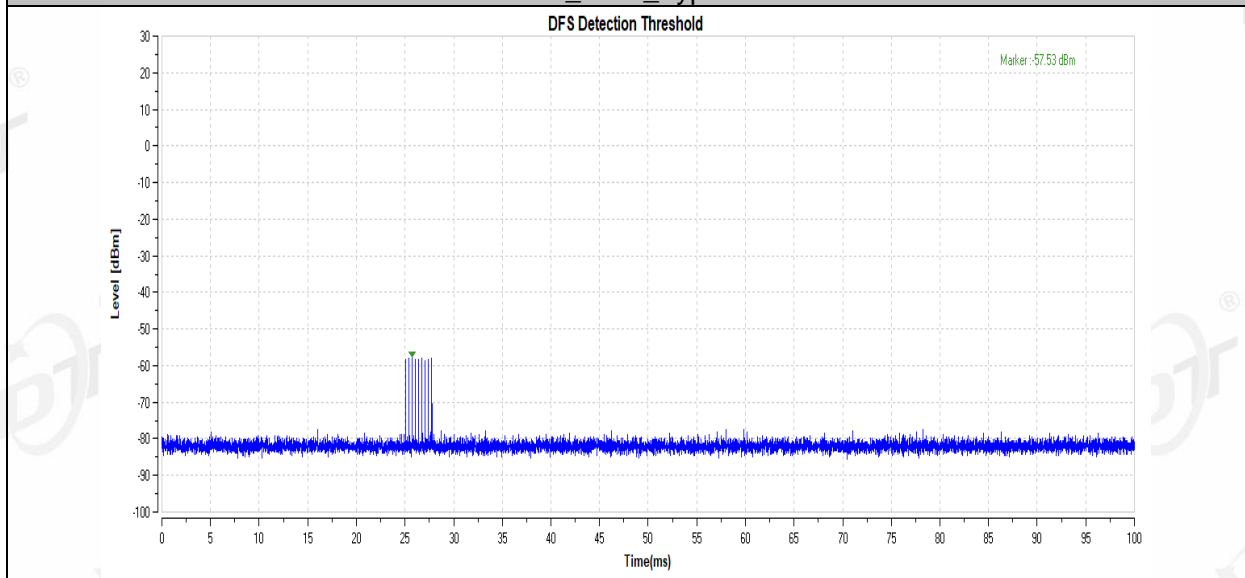
11A\_5260\_Type4



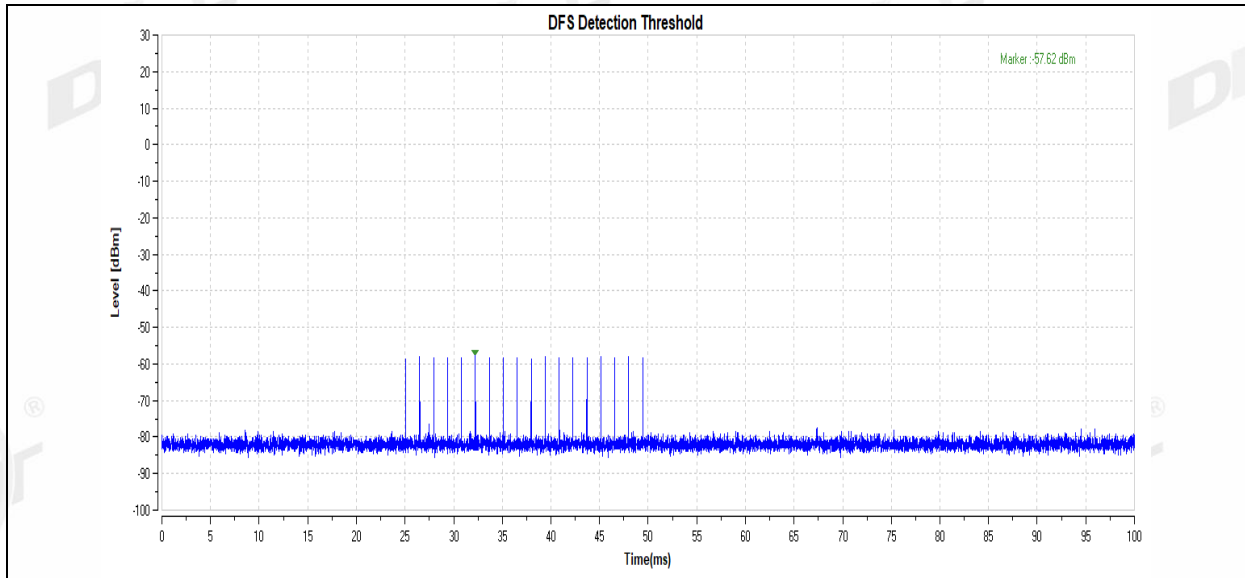
**11A\_5260\_Type5**



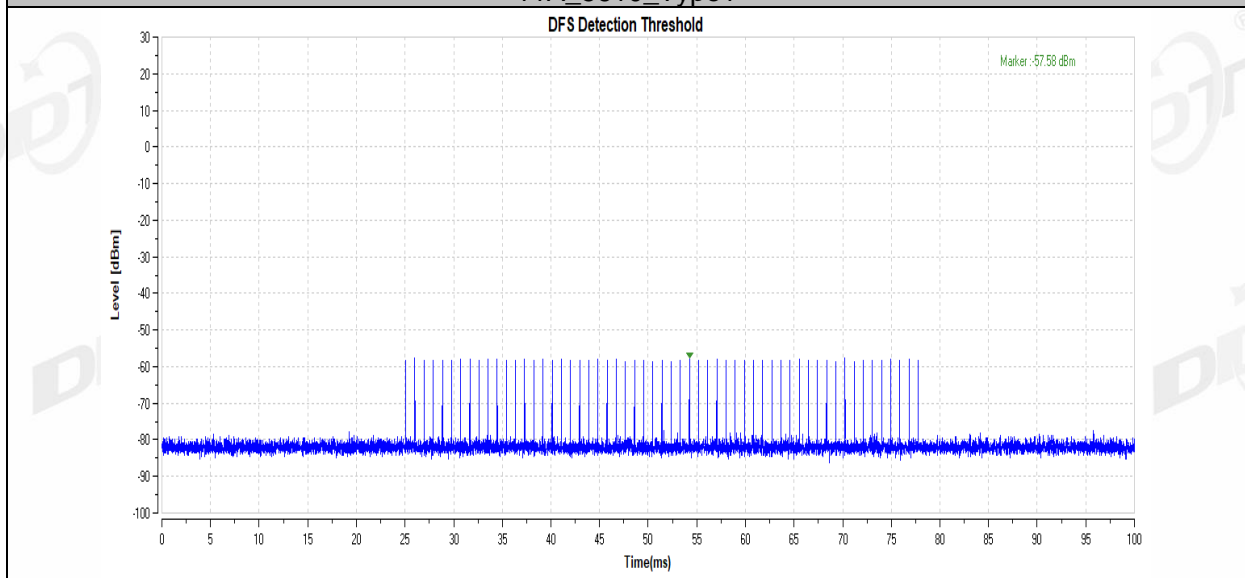
**11A\_5260\_Type6**



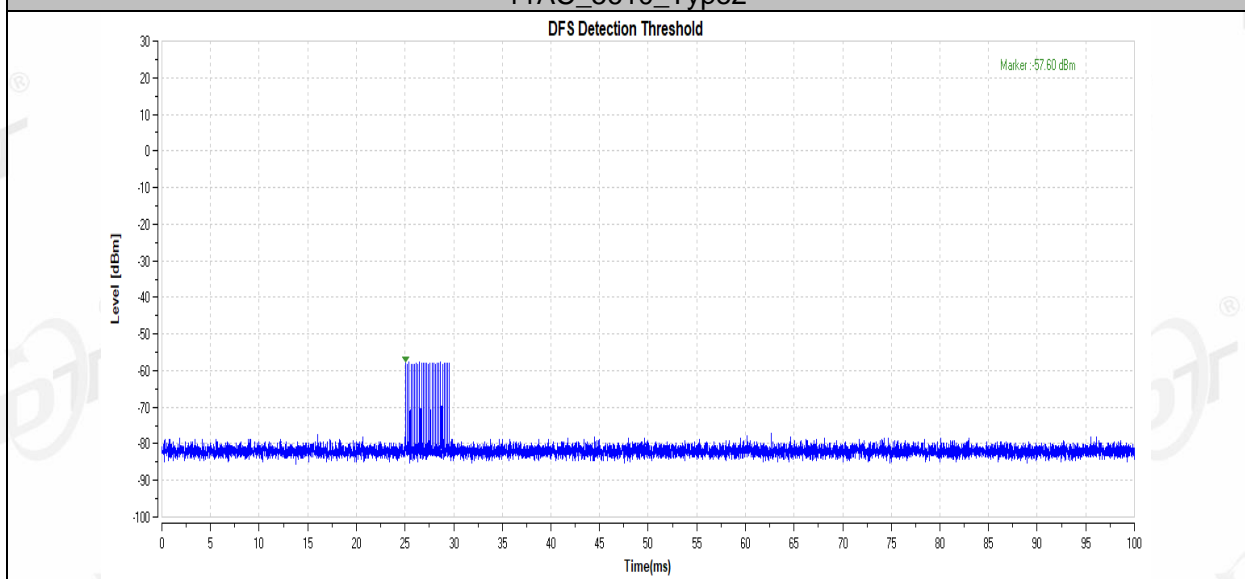
**11A\_5610\_Type0**



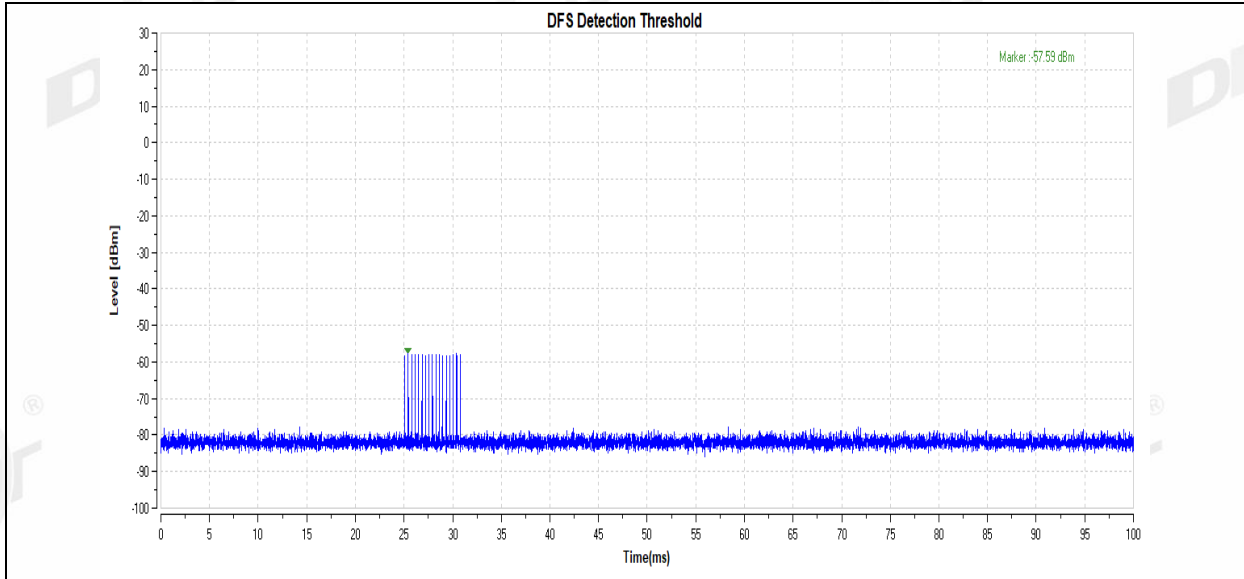
11A\_5610\_Type1



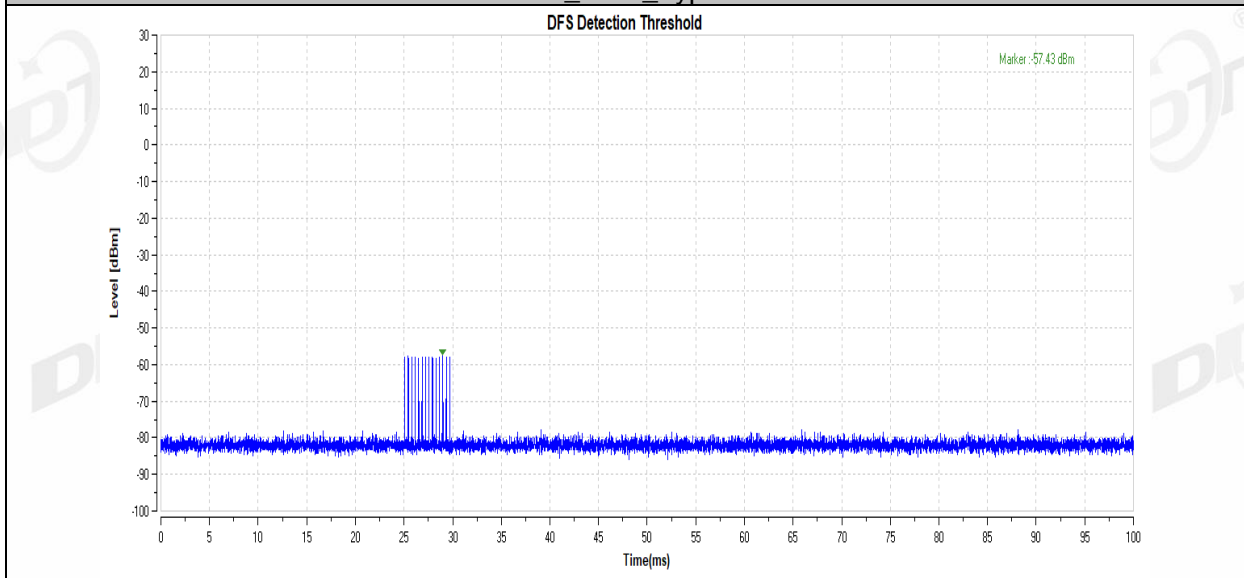
11AC\_5610\_Type2



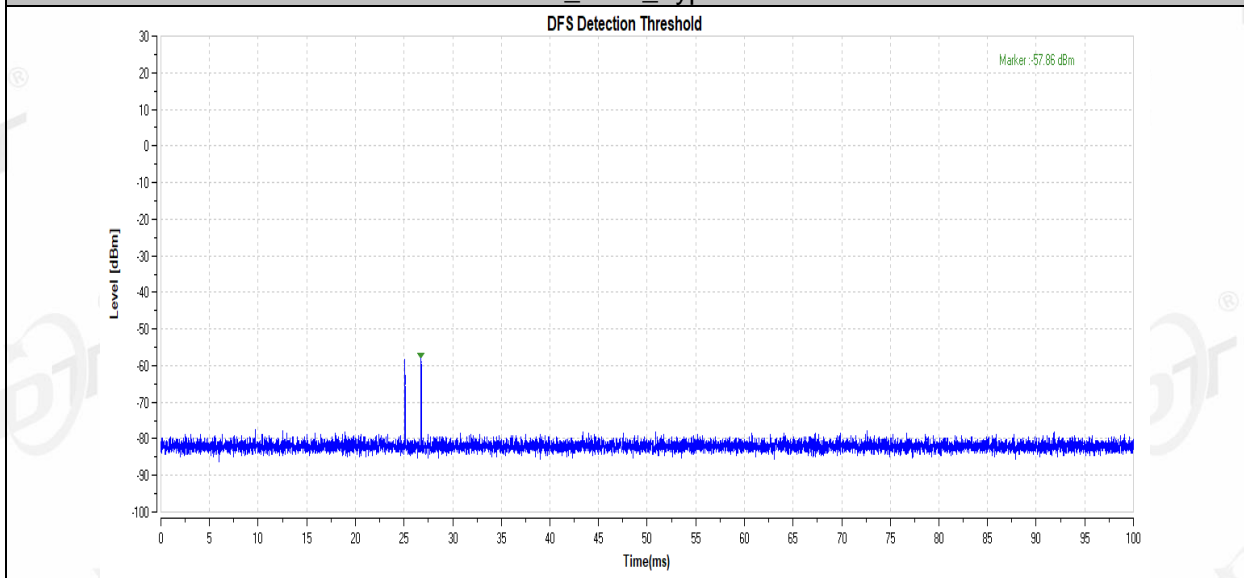
11A\_5610\_Type3



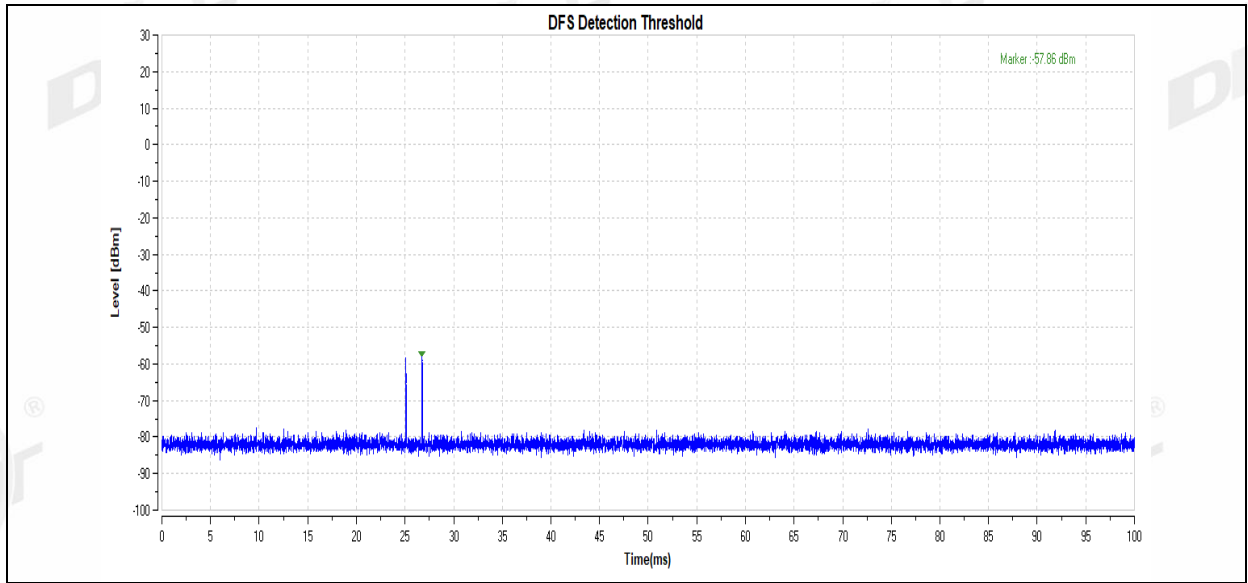
11A\_5610\_Type4



11A\_5610\_Type5



11A\_5610\_Type6





### 11.5. Channel closing transmission time, channel move time and non-occupancy period

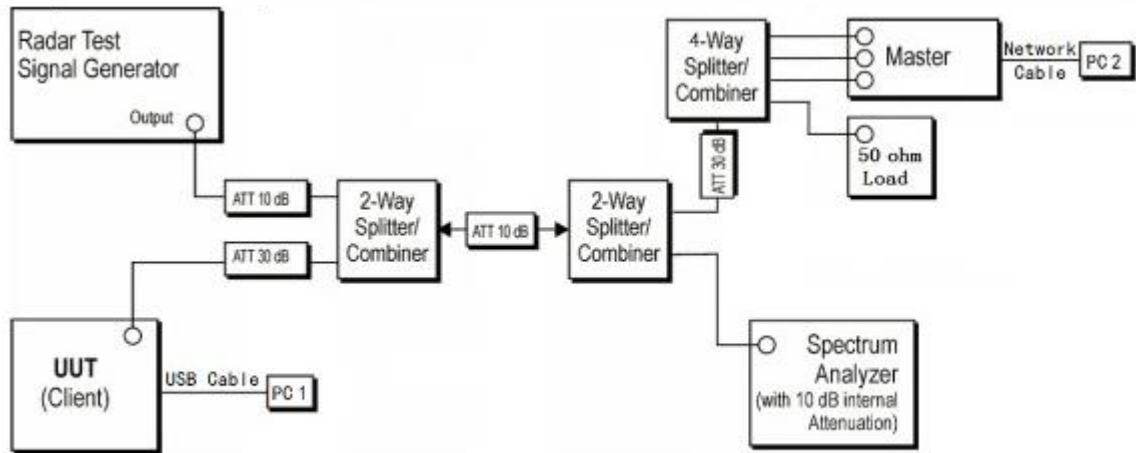
Block diagram of test setup Test Procedure:

- (1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Test Software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- (6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- (7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the
- (8) spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $D_{\text{well}} (0.3\text{ms}) = S (12000\text{ms}) / B (4000)$ ; where  $D_{\text{well}}$  is the dwell time per spectrum analyzer sampling bin,  $S$  is sweep time and  $B$  is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C (\text{ms}) = N \times D_{\text{well}} (0.3\text{ms})$ ; where  $C$  is the Closing Time,  $N$  is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and  $D_{\text{well}}$  is the dwell time per bin.

Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

### 11.6. Test setup

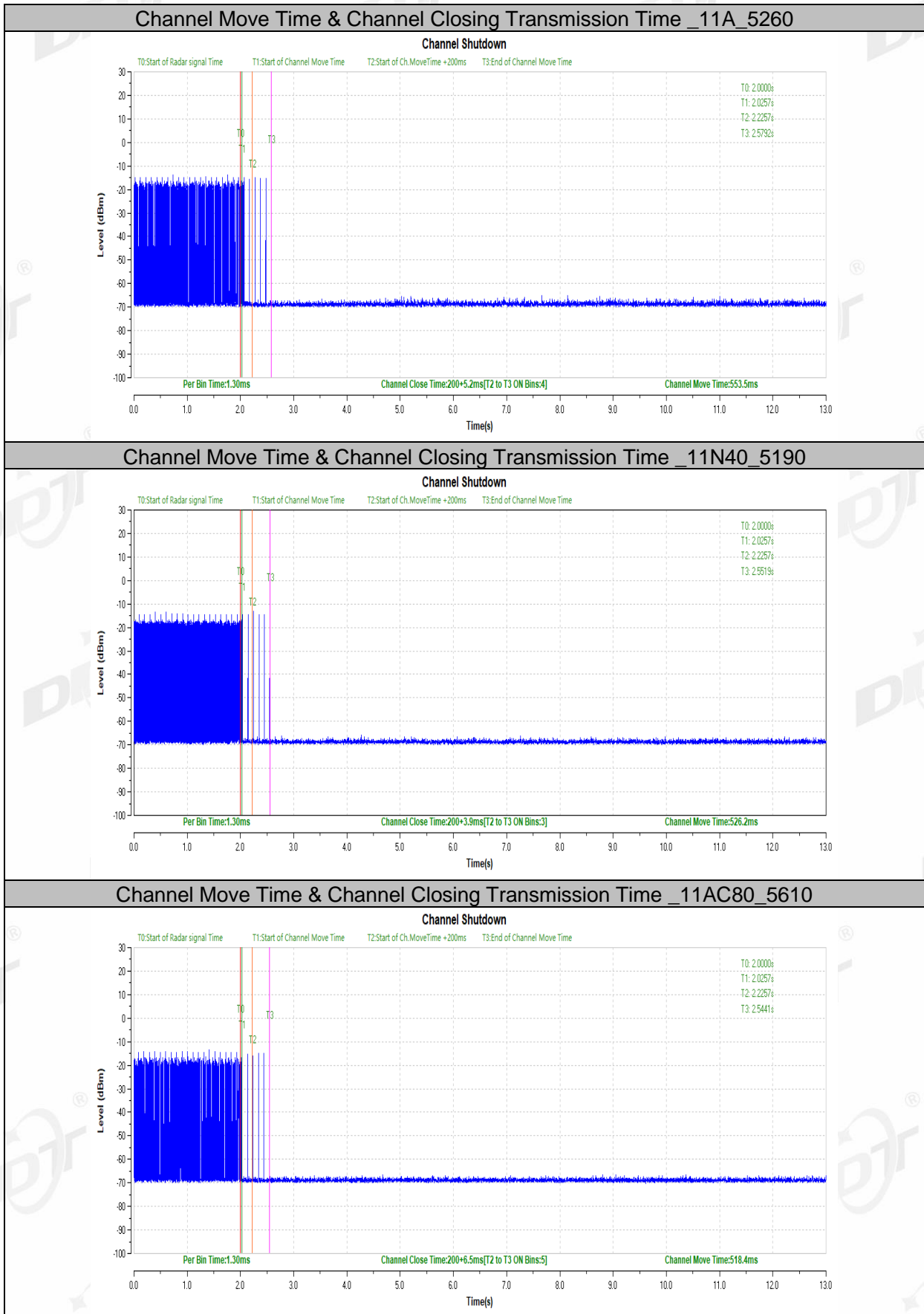
Setup for Client with injection at the Master



### 11.7. Test result

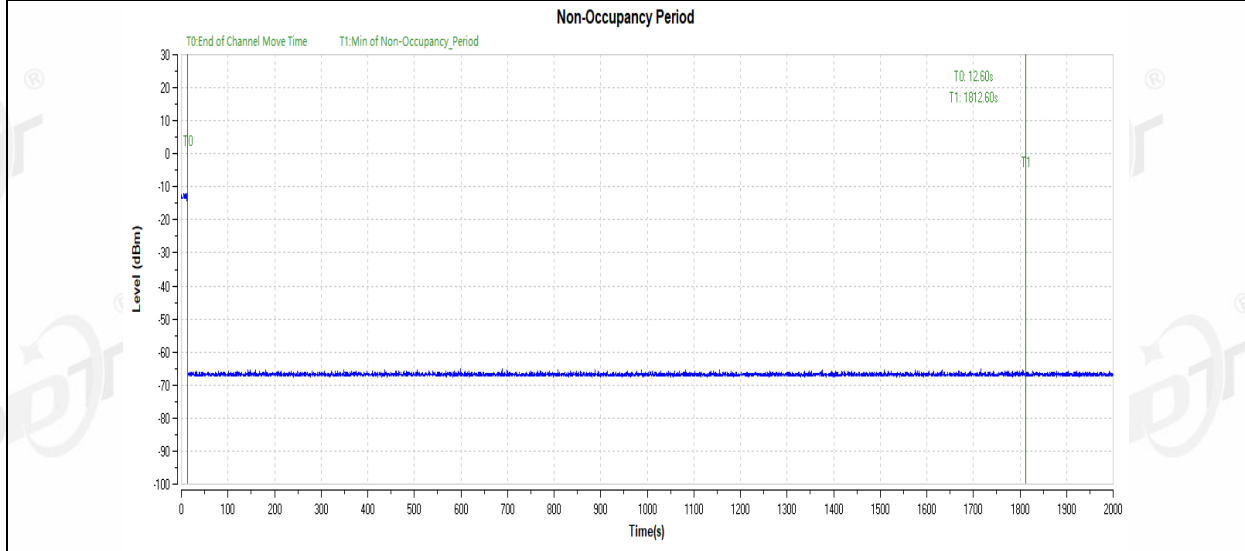
BW/Channel	Test Item	Test Result	Limit	Results
20M/5260MHz	Channel Move Time	0.554s	<10s	pass
	Channel Closing Transmission Time	0.205s	<0.26s	pass
40M/5190MHz	Channel Move Time	0.526	<10s	pass
	Channel Closing Transmission Time	0.	<0.26s	pass
80M/5610MHz	Channel Move Time	0.518s	<10s	pass
	Channel Closing Transmission Time	0.207s	<0.26s	pass

Test plots as follows:

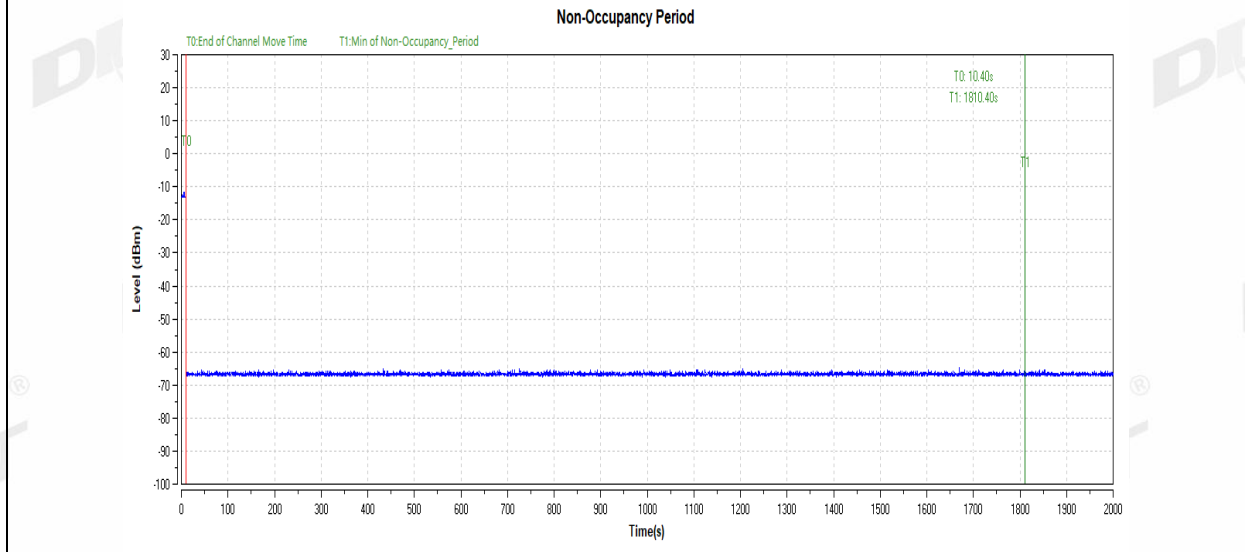


BW/Channel	Test Item	Test Result	Limit	Results
20M/5260MHz	Non-Occupancy Period	>30min	30min	pass
40M/5190MHz	Non-Occupancy Period	>30min	30min	pass
80M/5610MHz	Non-Occupancy Period	>30min	30min	pass

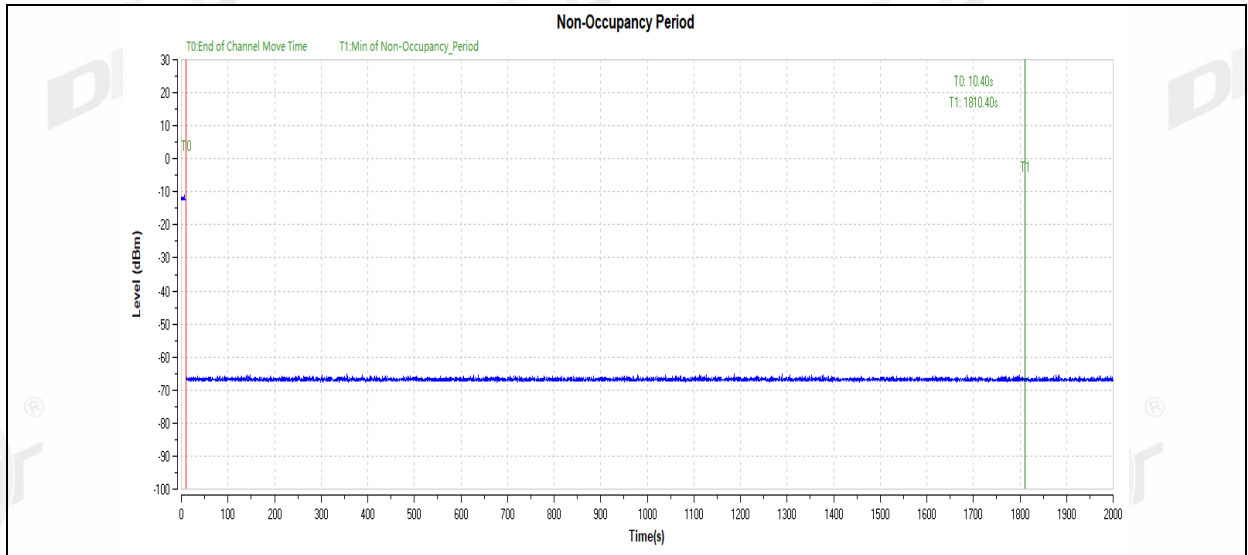
Non-Occupancy Period\_11A\_5260



Non-Occupancy Period\_11N40\_5190



Non-Occupancy Period\_11AC80\_5610



## 12. Antenna Requirements

### 12.1. 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.

### 12.2. Result

The product is FPC antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain is 4.6 dBi.

## 13. Photos of the EUT

Please refer to appendix I

**END OF REPORT**