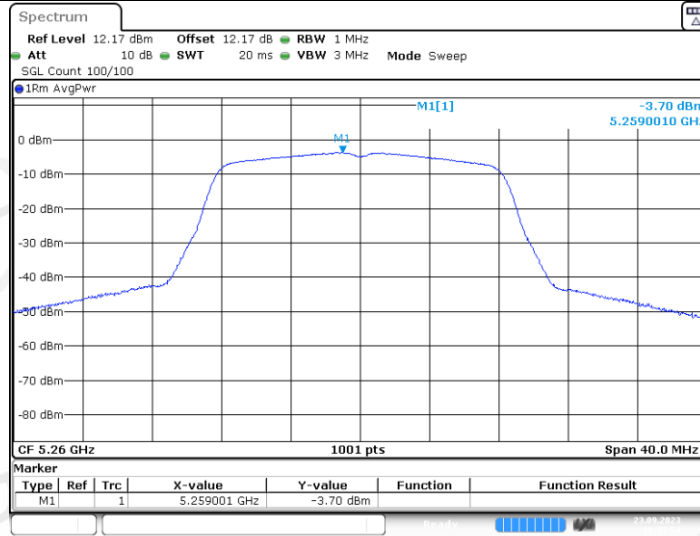


9.5. Test graphs

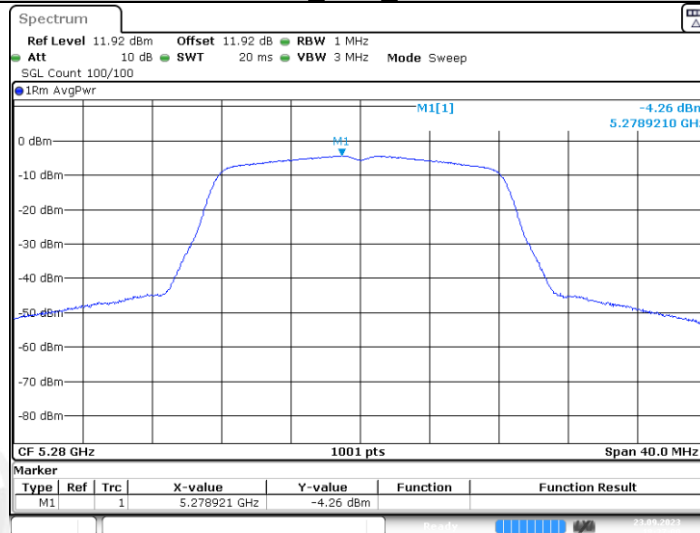


11A Ant1 5260



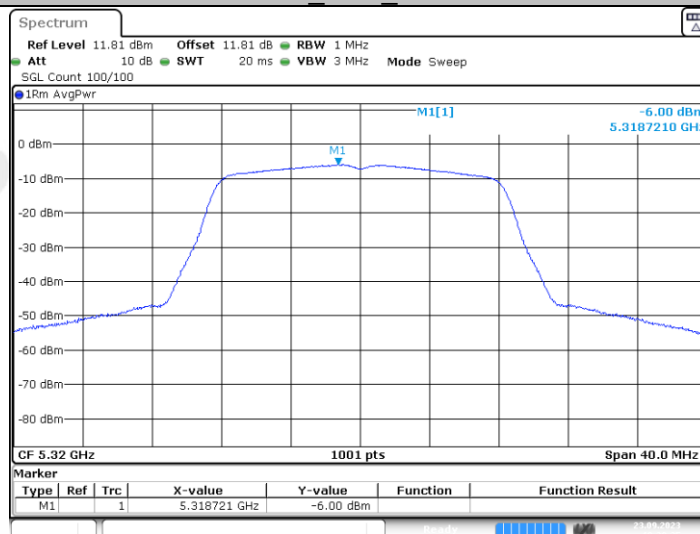
Date: 23 SEP.2023 18:35:54

11A Ant1 5280



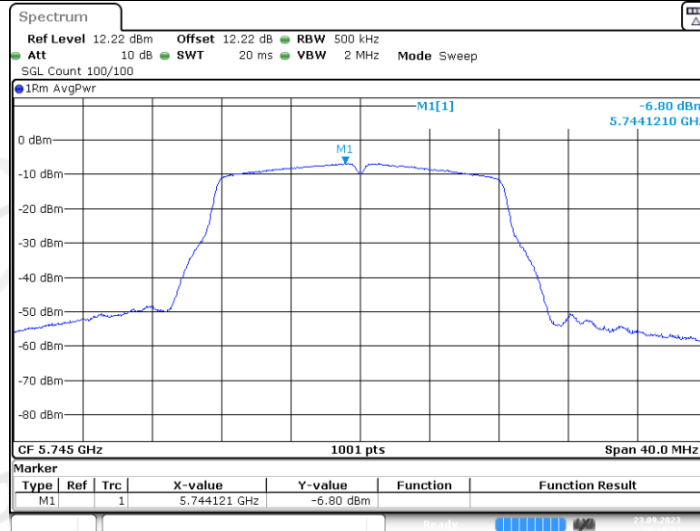
Date: 23 SEP.2023 18:37:00

11A Ant1 5320



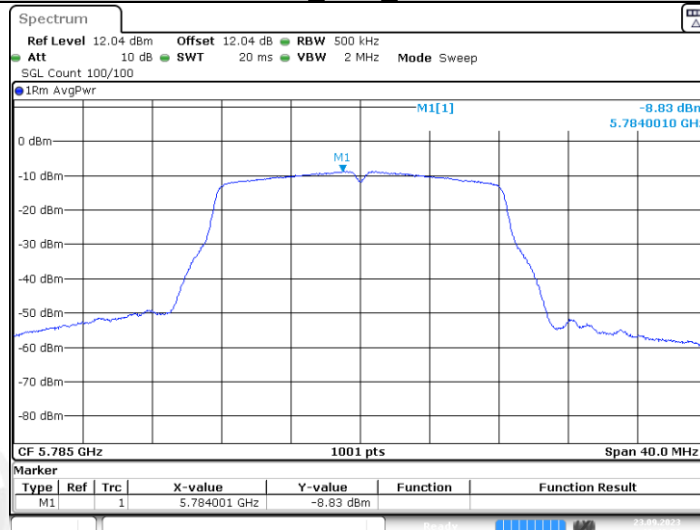
Date: 23 SEP.2023 18:38:26

11A_Ant1_5745



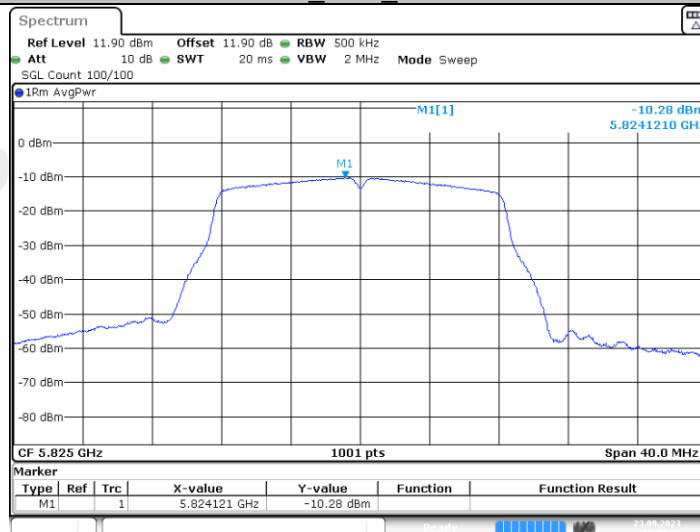
Date: 23 SEP.2023 18:39:44

11A_Ant1_5785



Date: 23 SEP.2023 18:40:56

11A_Ant1_5825

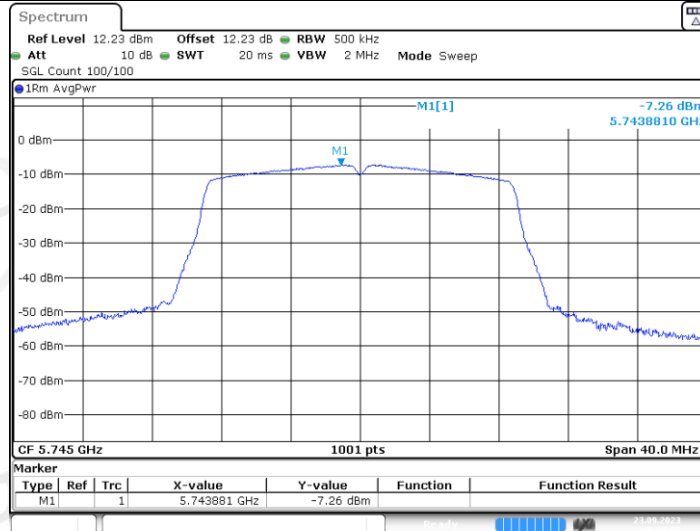


Date: 23 SEP.2023 18:42:13



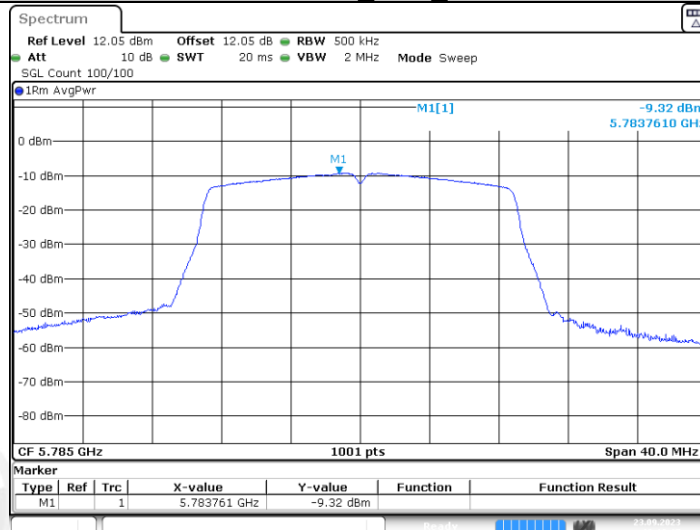


11N20SISO_Ant1_5745



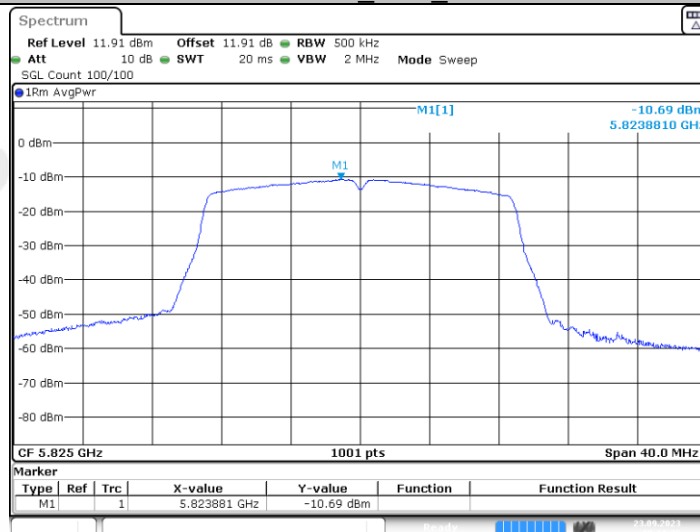
Date: 23 SEP.2023 19:09:04

11N20SISO_Ant1_5785



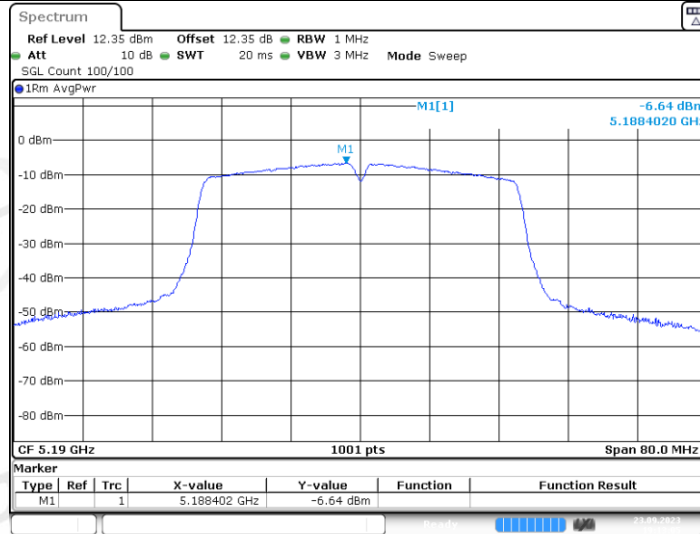
Date: 23 SEP.2023 19:10:18

11N20SISO_Ant1_5825



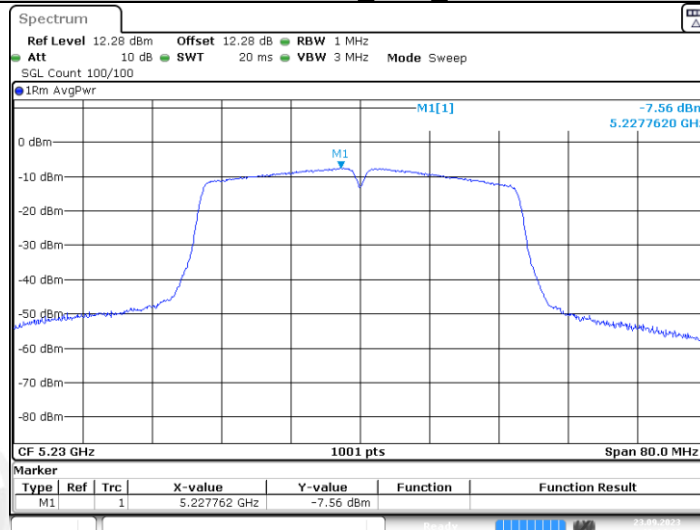
Date: 23 SEP.2023 19:11:36

11N40SISO_Ant1_5190



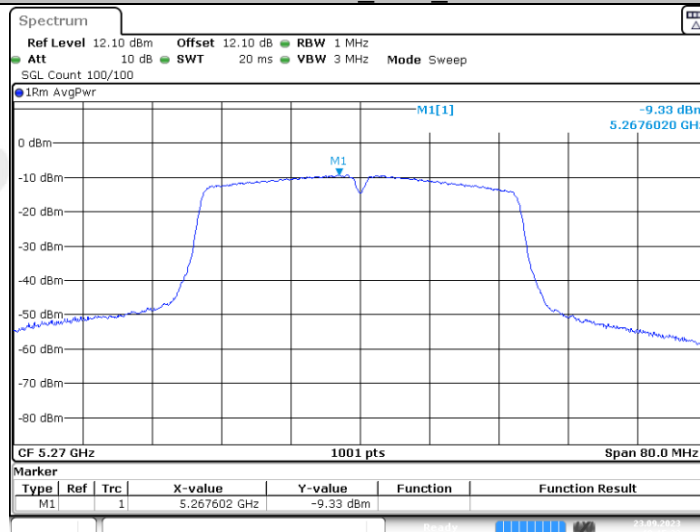
Date: 23.SEP.2023 19:13:05

11N40SISO_Ant1_5230

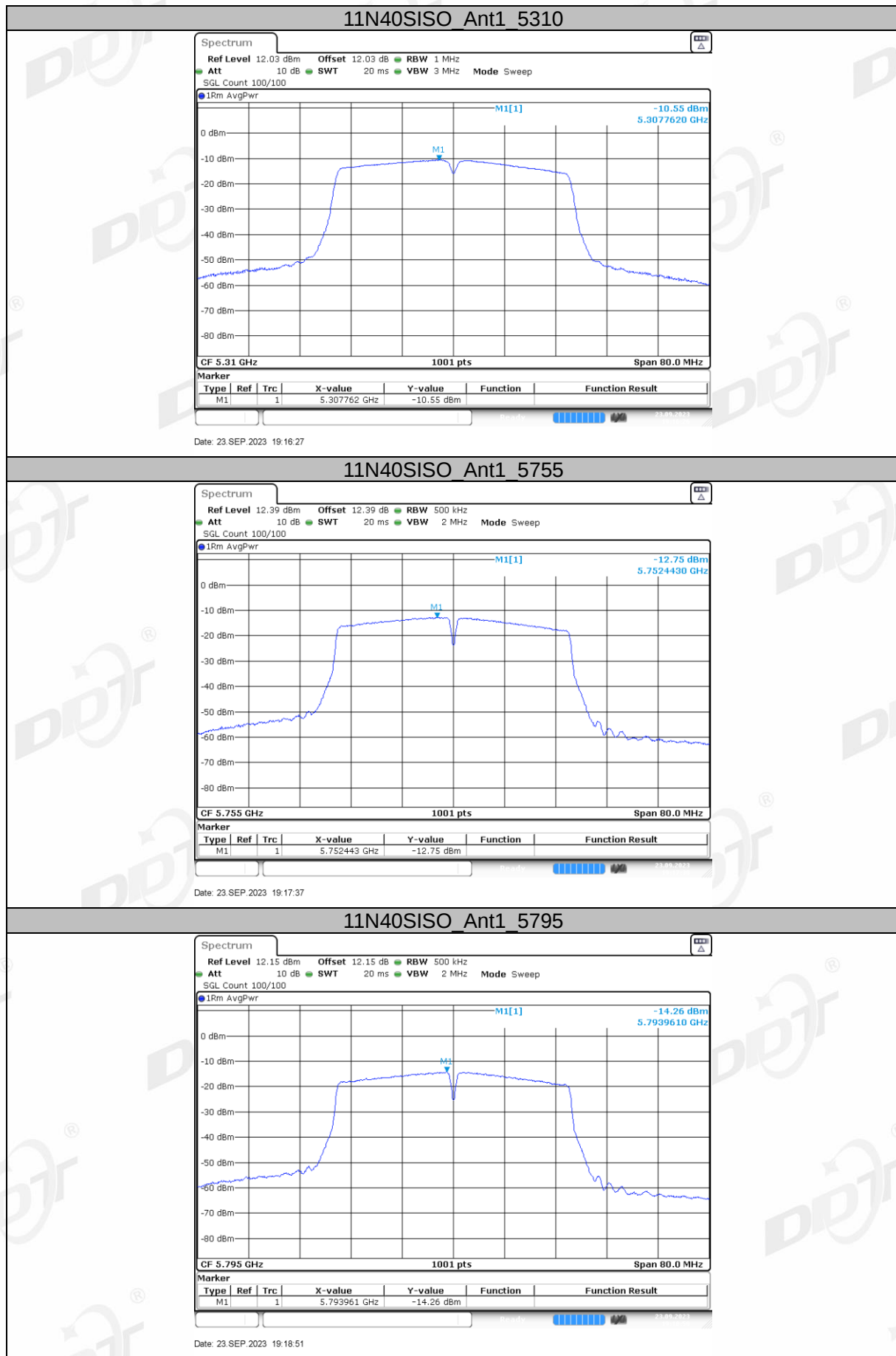


Date: 23.SEP.2023 19:14:12

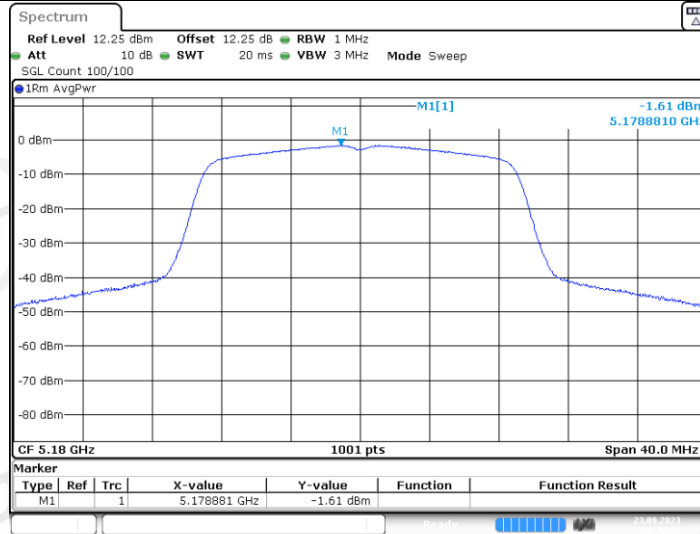
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Date: 23.SEP.2023 19:15:22

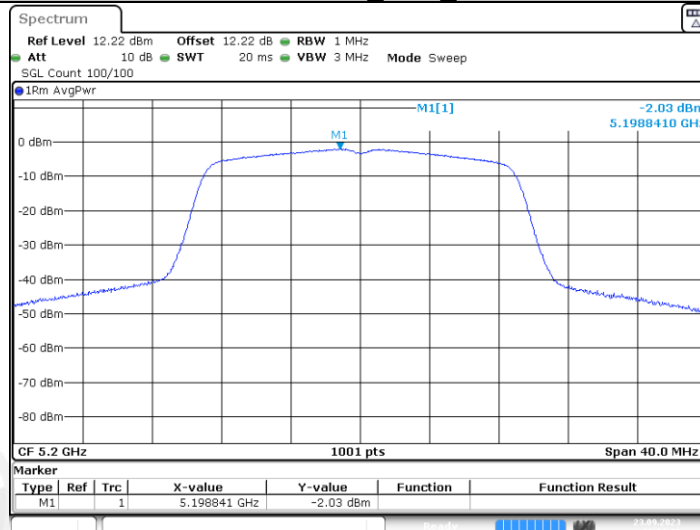


11AC20SISO_Ant1_5180



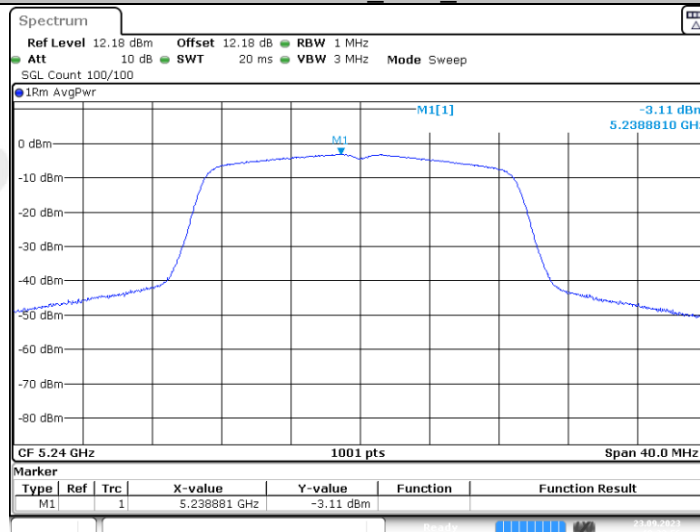
Date: 23 SEP.2023 19:20:31

11AC20SISO_Ant1_5200



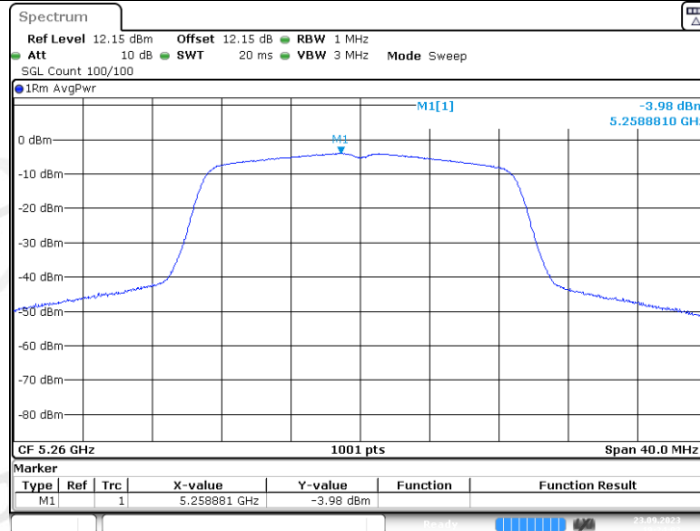
Date: 23 SEP.2023 19:21:39

11AC20SISO_Ant1_5240



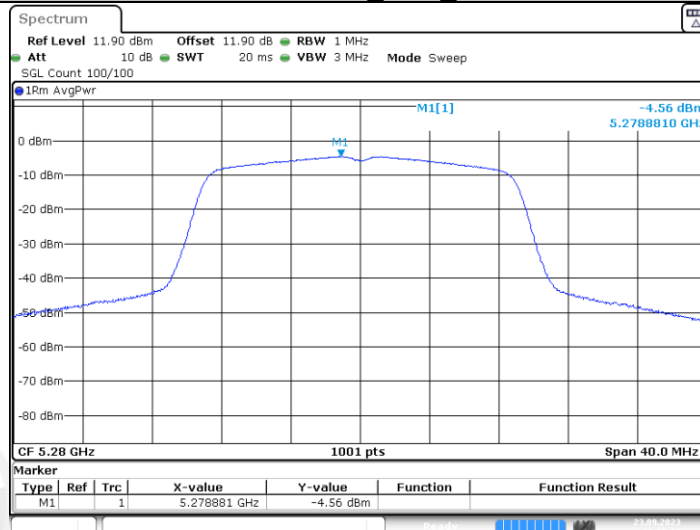
Date: 23 SEP.2023 19:22:56

11AC20SISO_Ant1_5260



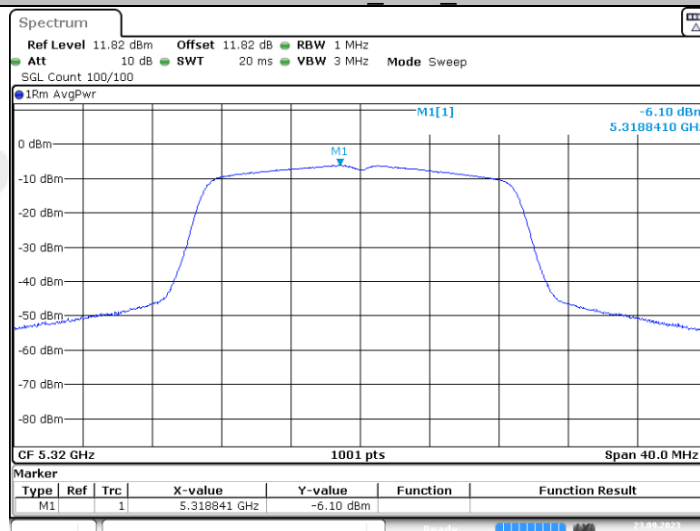
Date: 23 SEP.2023 19:24:04

11AC20SISO_Ant1_5280



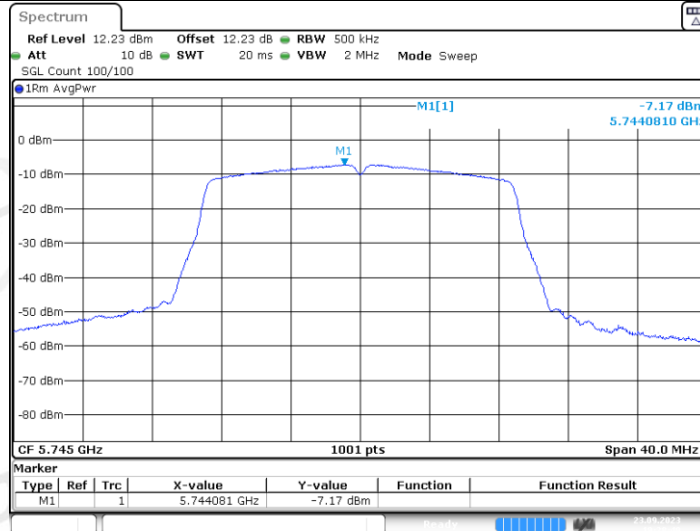
Date: 23 SEP.2023 19:25:10

11AC20SISO_Ant1_5320



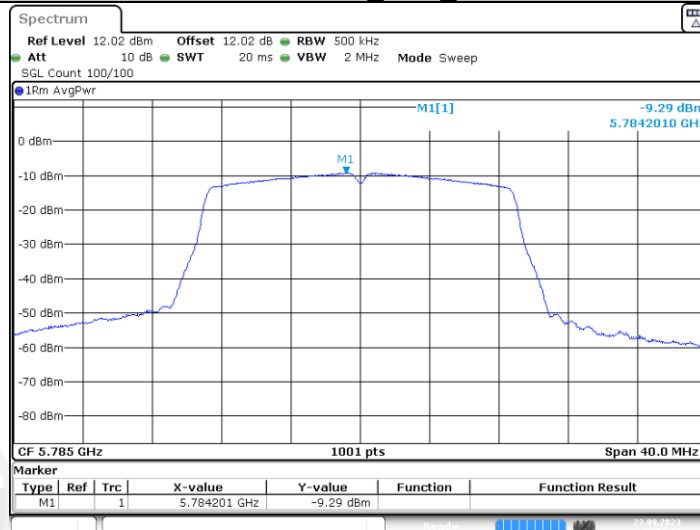
Date: 23 SEP.2023 19:26:25

11AC20SISO_Ant1_5745



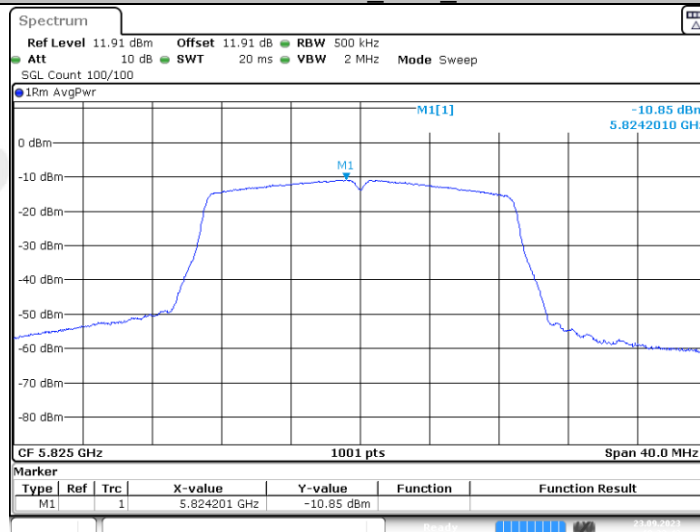
Date: 23 SEP.2023 19:28:50

11AC20SISO_Ant1_5785



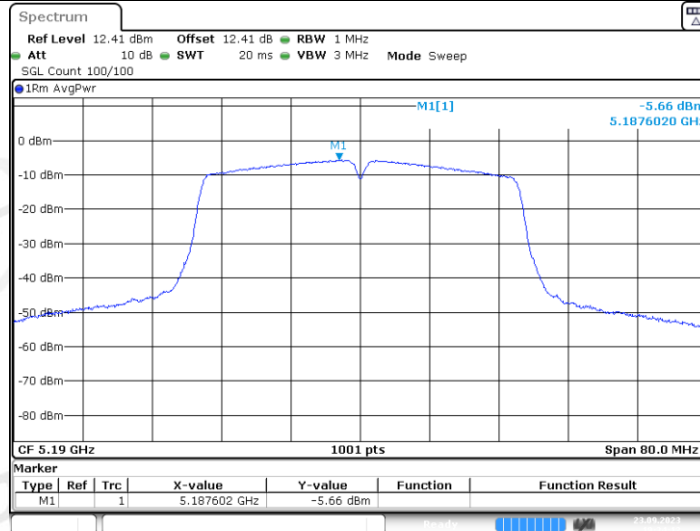
Date: 23 SEP.2023 19:31:13

11AC20SISO_Ant1_5825



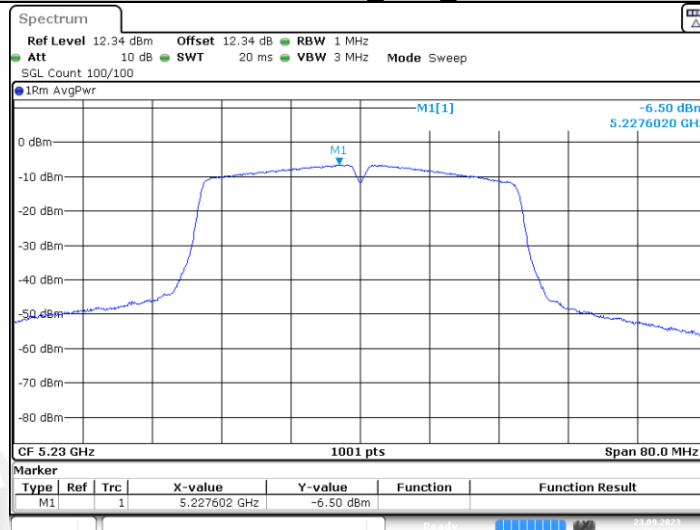
Date: 23 SEP.2023 19:32:43

11AC40SISO_Ant1_5190



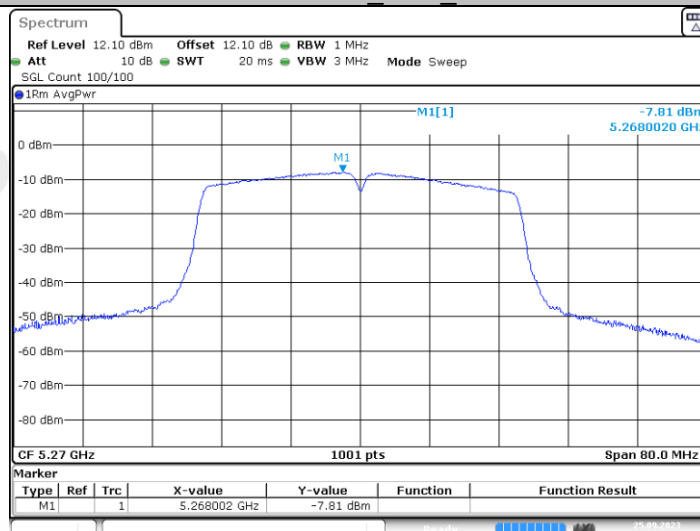
Date: 23 SEP.2023 19:34:12

11AC40SISO_Ant1_5230



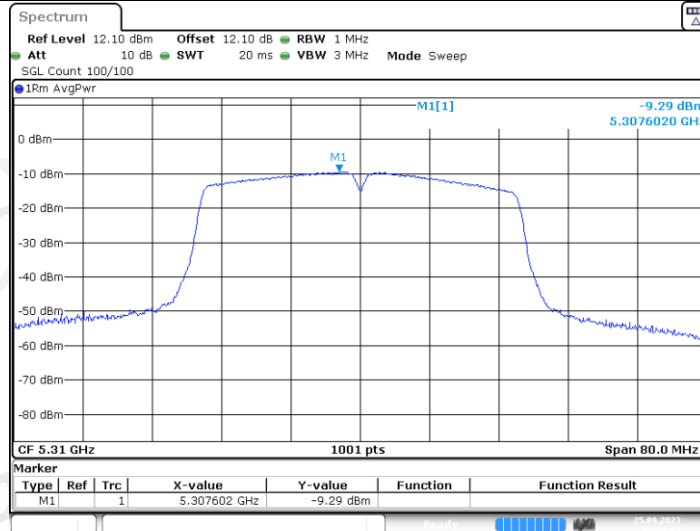
Date: 23 SEP.2023 19:38:24

11AC40SISO_Ant1_5270



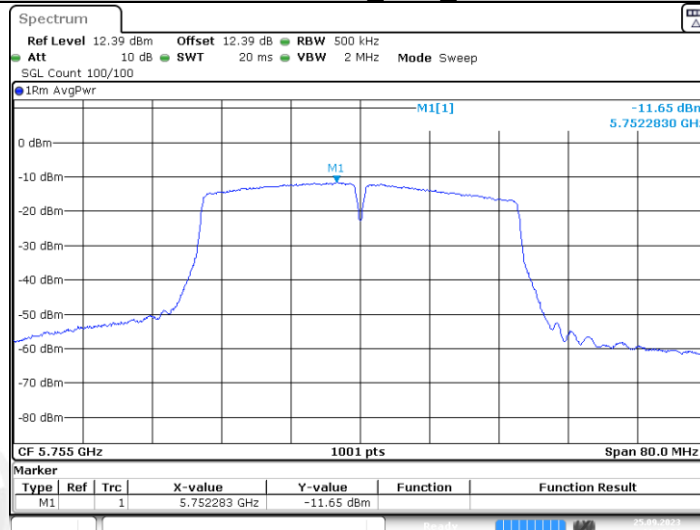
Date: 25 SEP.2023 09:48:20

11AC40SISO_Ant1_5310



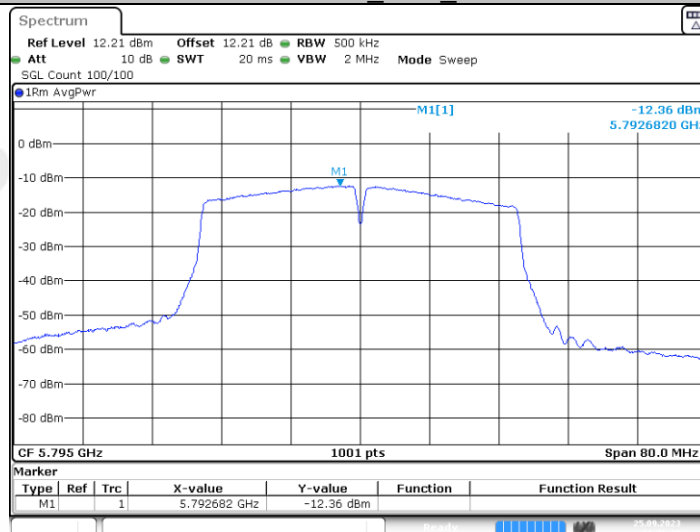
Date: 25 SEP.2023 09:51:23

11AC40SISO_Ant1_5755



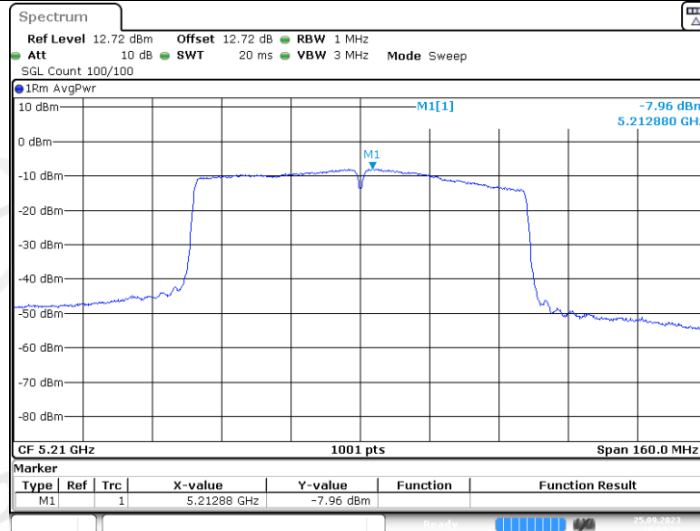
Date: 25 SEP.2023 11:18:21

11AC40SISO_Ant1_5795



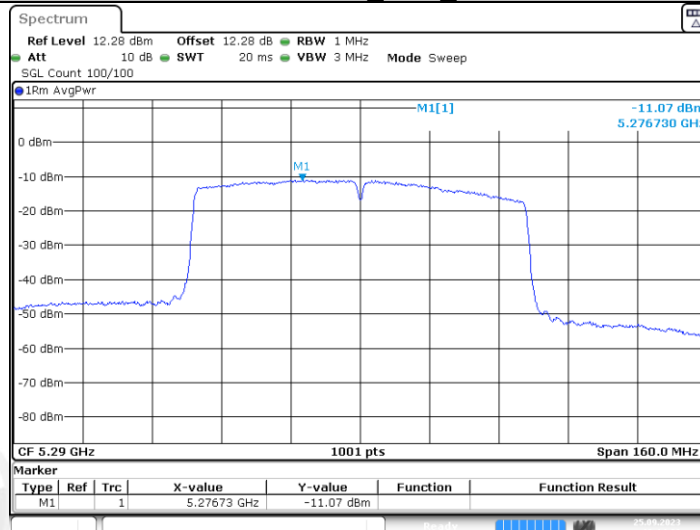
Date: 25 SEP.2023 11:26:29

11AC80SISO_Ant1_5210



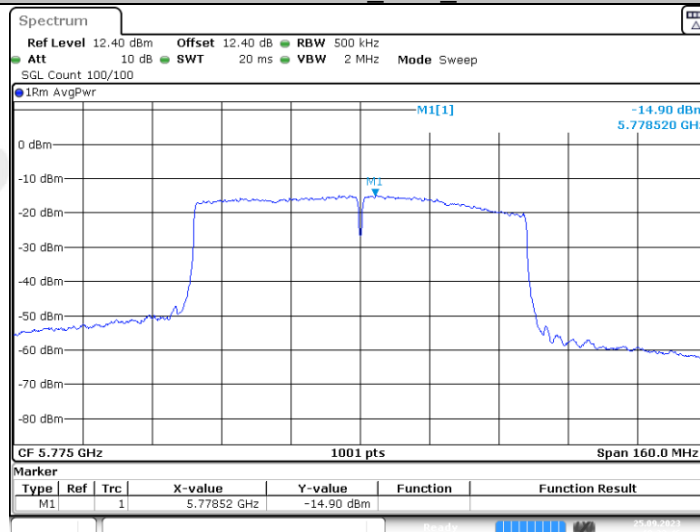
Date: 25 SEP.2023 10:04:30

11AC80SISO_Ant1_5290



Date: 25 SEP.2023 10:14:06

11AC80SISO_Ant1_5775



Date: 25 SEP.2023 10:23:46

10. Frequency Stability Measurement

10.1. 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.

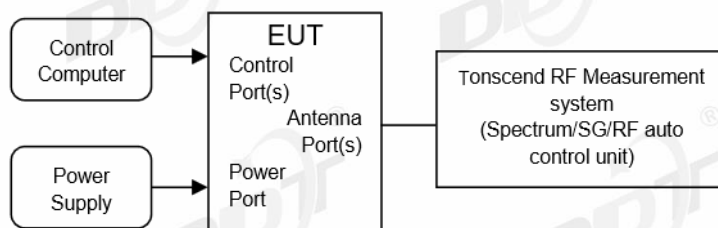
10.2. Measuring Instruments

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

10.3. 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.

10.4. Test setup



10.5. Test result

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5260	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5280	NV	NT	-20000.00	-3.787879	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	-20000.00	-3.787879	20	PASS
		5320	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
		5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	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	-40000.00	-6.866953	20	PASS
11N20SISO	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS

			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
		5240	NV	NT	-40000.00	-7.633588	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5280	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		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
		5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
		5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	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	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS

			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	-40000.00	-7.648184	20	PASS
		5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
		5310	NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	-40000.00	-7.532957	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
		5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
11AC80SISO	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
		5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-13.852814	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.861004	20	PASS
			NV	60	-20000.00	-3.861004	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5200	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.692308	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	-40000.00	-7.692308	20	PASS
			NV	70	-20000.00	-3.846154	20	PASS
		5240	NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	20000.00	3.816794	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
			NV	60	-20000.00	-3.816794	20	PASS
			NV	70	-20000.00	-3.816794	20	PASS
		5260	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS

			NV	0	-20000.00	-3.802281	20	PASS
			NV	10	-20000.00	-3.802281	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.802281	20	PASS
			NV	40	-20000.00	-3.802281	20	PASS
			NV	50	-20000.00	-3.802281	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-20000.00	-3.802281	20	PASS
		5280	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	-20000.00	-3.787879	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.787879	20	PASS
			NV	40	-40000.00	-7.575758	20	PASS
			NV	50	-20000.00	-3.787879	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5320	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	-40000.00	-7.518797	20	PASS
			NV	20	-20000.00	-3.759398	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS
			NV	40	-20000.00	-3.759398	20	PASS
			NV	50	-20000.00	-3.759398	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	20000.00	3.759398	20	PASS
		5745	NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.962576	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.481288	20	PASS

			NV	40	20000.00	3.481288	20	PASS
			NV	50	-40000.00	-6.962576	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-40000.00	-6.962576	20	PASS
		5785	NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.914434	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.914434	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-6.914434	20	PASS
			NV	60	-20000.00	-3.457217	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5825	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-6.866953	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-20000.00	-3.433476	20	PASS
11N20SISO	Ant1	5180	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	20000.00	3.861004	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
			NV	60	-20000.00	-3.861004	20	PASS
			NV	70	20000.00	3.861004	20	PASS

		5200	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	-20000.00	-3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.692308	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5240	NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.633588	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	-20000.00	-3.816794	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
			NV	60	-40000.00	-7.633588	20	PASS
			NV	70	-20000.00	-3.816794	20	PASS
		5260	NV	-20	-20000.00	-3.802281	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	20000.00	3.802281	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-20000.00	-3.802281	20	PASS
		5280	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.787879	20	PASS
			NV	10	0.00	0.000000	20	PASS

			NV	20	20000.00	3.787879	20	PASS
			NV	30	20000.00	3.787879	20	PASS
			NV	40	20000.00	3.787879	20	PASS
			NV	50	20000.00	3.787879	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-20000.00	-3.787879	20	PASS
		5320	NV	-20	-20000.00	-3.759398	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.759398	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.759398	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-20000.00	-3.759398	20	PASS
		5745	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.481288	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
			NV	60	-20000.00	-3.481288	20	PASS
			NV	70	20000.00	3.481288	20	PASS
		5785	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

			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5825	NV	-20	-40000.00	-6.866953	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.433476	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	-20000.00	-3.433476	20	PASS
			NV	60	-20000.00	-3.433476	20	PASS
			NV	70	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	0.00	0.000000	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	-40000.00	-7.707129	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5230	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-7.648184	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.648184	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5270	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.590133	20	PASS

11AC40SISO	Ant1	5190	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.707129	20	PASS
			NV	20	-40000.00	-7.707129	20	PASS
			NV	30	-80000.00	-15.414258	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5230	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.648184	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	-40000.00	-7.648184	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-40000.00	-7.648184	20	PASS
		5270	NV	-20	-40000.00	-7.590133	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.590133	20	PASS
			NV	10	-40000.00	-7.590133	20	PASS
			NV	20	-40000.00	-7.590133	20	PASS
			NV	30	-40000.00	-7.590133	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.590133	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	40000.00	7.590133	20	PASS
		5310	NV	-20	-40000.00	-7.532957	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.532957	20	PASS
			NV	10	-40000.00	-7.532957	20	PASS

			NV	20	-40000.00	-7.532957	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.532957	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	-40000.00	-7.532957	20	PASS
		5755	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-6.950478	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	-40000.00	-6.950478	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5795	NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-6.902502	20	PASS
			NV	60	-40000.00	-6.902502	20	PASS
			NV	70	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5210	NV	-20	-80000.00	-15.355086	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-80000.00	-15.355086	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

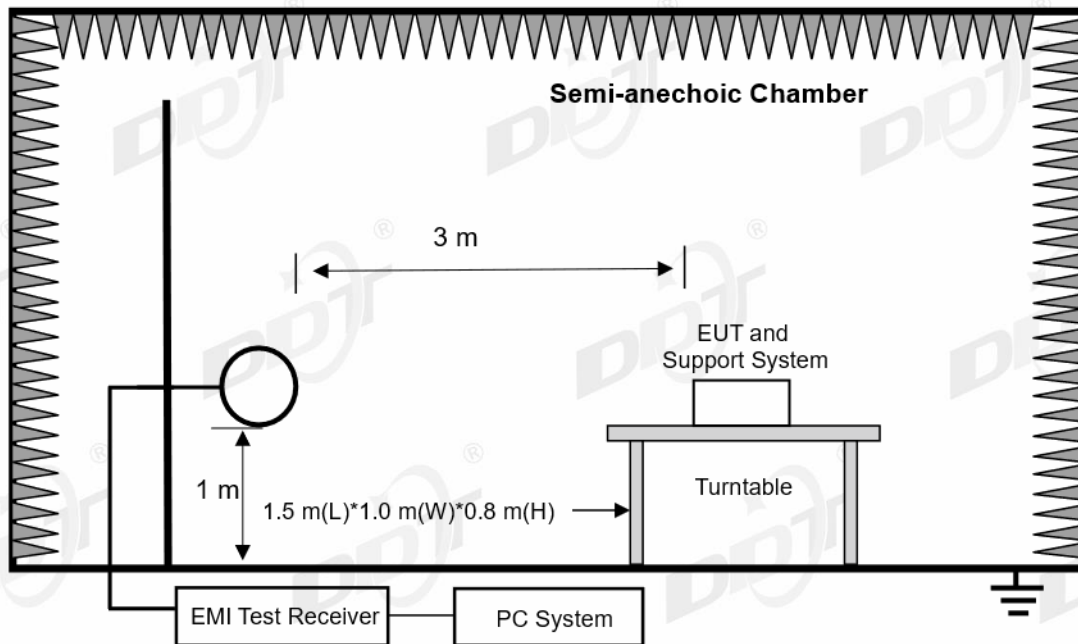
			NV	60	0.00	0.000000	20	PASS
			NV	70	-80000.00	-15.355086	20	PASS
		5290	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS
		5775	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
			NV	60	0.00	0.000000	20	PASS
			NV	70	0.00	0.000000	20	PASS

Note: The temperature range of the product is -20 °C - +70 °C。

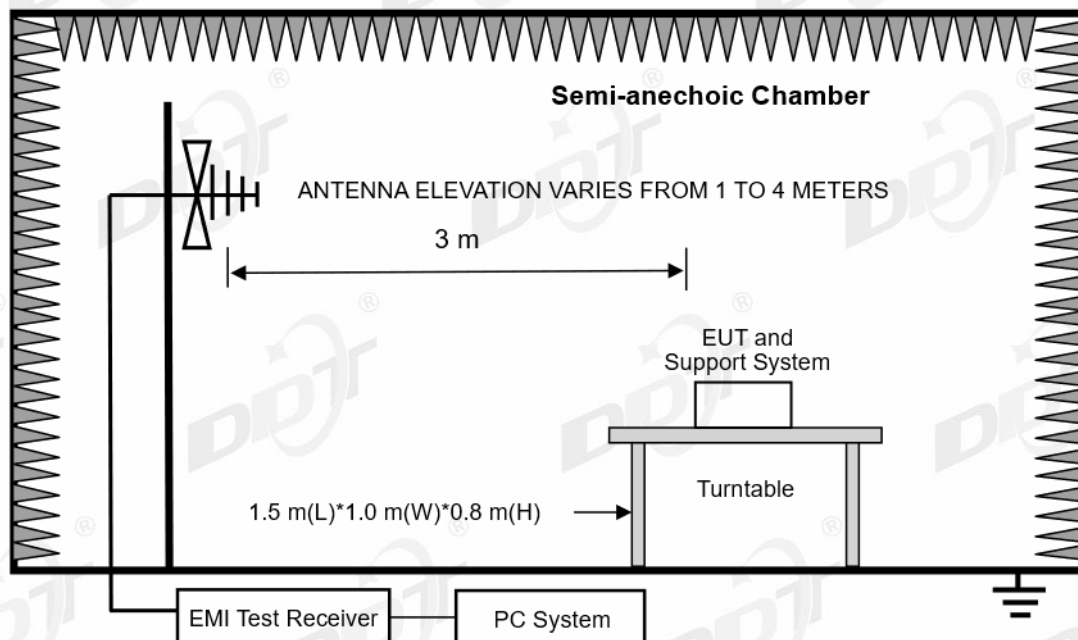
11. Emissions in restricted frequency bands

11.1. Block diagram of test setup

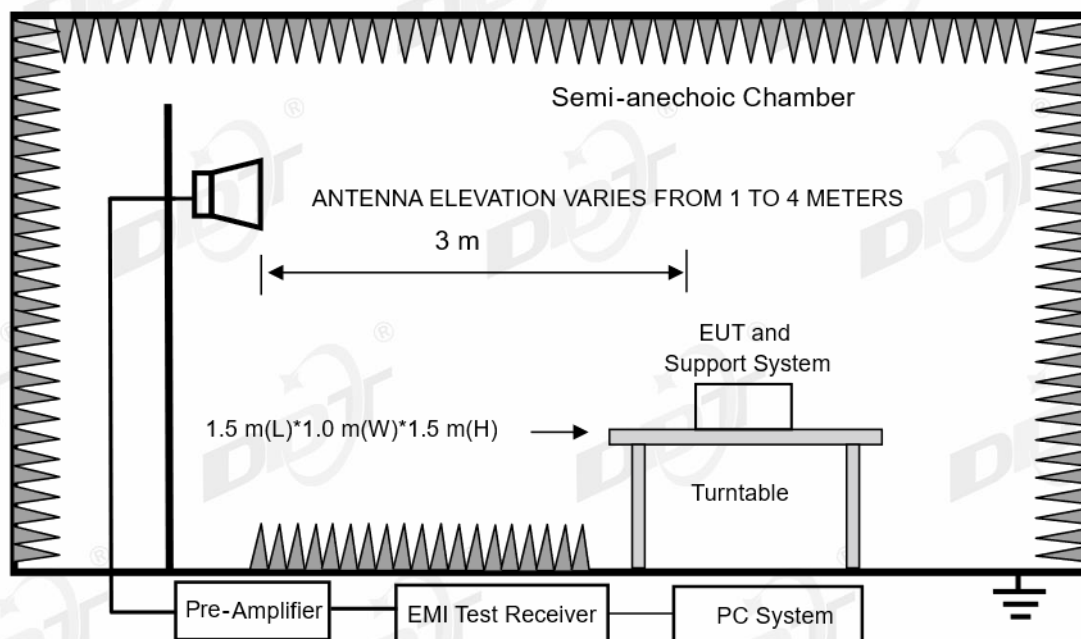
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



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.

11.2. 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
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY (MHz)	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (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, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits..

11.3. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

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

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

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

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

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

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

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

(c) Change modulation type of device if practicable.

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

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement

produces highest emissions.

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

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission.

Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

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

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

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

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

11.4. 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 and RSS-Gen section 8.9 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. Only recorded the worst case (802.11a mode) in this report, and the EUT does not support Simultaneous emission with 2.4G WIFI and 5G WIFI.

Note 4: All bands of 5.8 GHz comply with the limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-13

Tested By: Bairong

EUT: Multimedia

Model Number: Kansas City 100

Test Mode: 5GWIFI

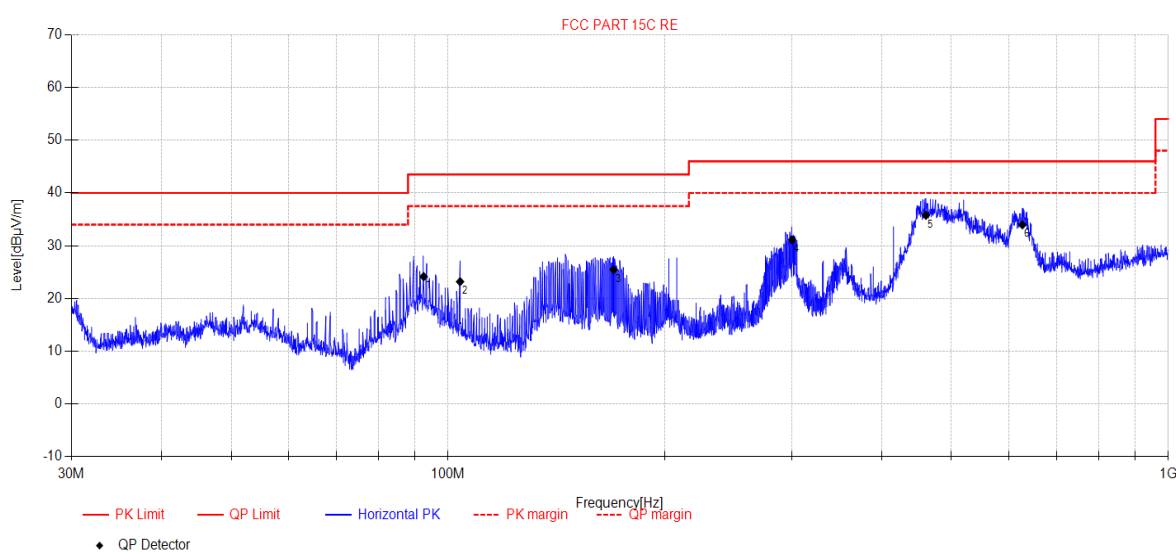
Power Supply: DC 12V

Condition: Temp:20.7°C;Humi:60.5%

Test Site: DDT 3# Chamber

File Path: d:\ts\2023 report data\Q23082411-2E\FCC BELOW 1G\20230913-040612_H

Memo: Sample Number:S23082411-02

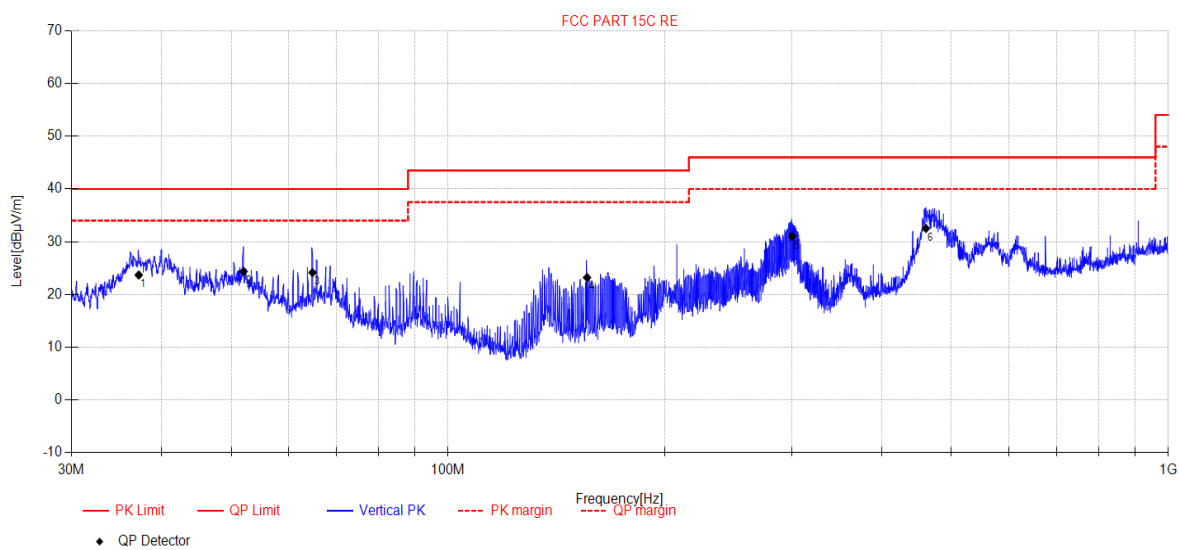


Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	92.51	40.02	9.90	4.98	-30.75	24.15	43.50	19.35	QP	Horizontal
2	103.93	37.99	11.00	5.09	-30.89	23.19	43.50	20.31	QP	Horizontal
3	169.78	42.18	8.50	5.48	-30.69	25.47	43.50	18.03	QP	Horizontal
4	300.44	41.95	13.31	6.15	-30.30	31.11	46.00	14.89	QP	Horizontal
5	460.80	42.62	16.30	6.84	-29.98	35.78	46.00	10.22	QP	Horizontal
6	627.33	37.42	19.00	7.45	-29.90	33.97	46.00	12.03	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13**Tested By:** Bairong**EUT:** Multimedia**Model Number:** Kansas City 100**Test Mode:** 5GWIFI**Power Supply:** DC 12V**Condition:** Temp:20.7°C;Humi:60.5%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2023 report data\Q23082411-2E\FCC BELOW 1G\20230913-040653_V**Memo:** Sample Number:S23082411-02

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	37.21	38.48	11.54	4.56	-30.89	23.69	40.00	16.31	QP	Vertical
2	52.02	37.32	13.00	4.74	-30.69	24.37	40.00	15.63	QP	Vertical
3	64.83	39.34	10.65	4.77	-30.60	24.16	40.00	15.84	QP	Vertical
4	155.97	40.76	7.80	5.37	-30.73	23.20	43.50	20.30	QP	Vertical
5	300.44	41.88	13.31	6.15	-30.30	31.04	46.00	14.96	QP	Vertical
6	460.80	39.37	16.30	6.84	-29.98	32.53	46.00	13.47	QP	Vertical

Note:

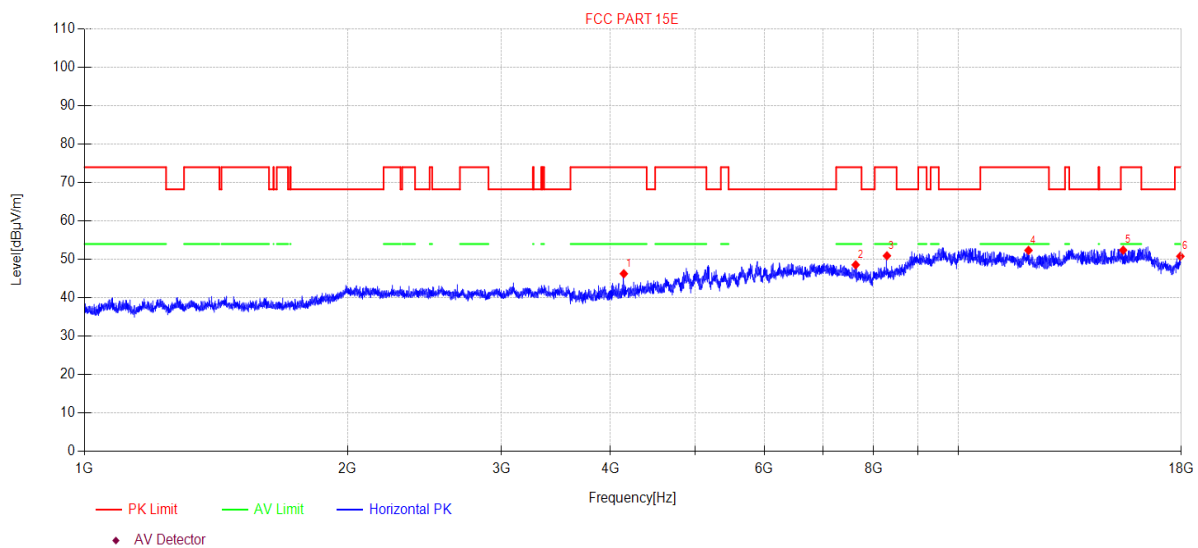
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-13 Tested By: Bairong
EUT: Multimedia Model Number: Kansas City 100
Test Mode: 11A TX 5180MHz Power Supply: DC 12V
Condition: Temp:20.7°C;Humi:60.5% Test Site: DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\15
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4142.68	49.32	6.36	30.99	-40.40	46.27	74.00	27.73	PK	Horizontal
2	7631.67	45.54	8.86	36.46	-42.28	48.58	74.00	25.42	PK	Horizontal
3	8286.88	46.82	8.87	37.17	-41.93	50.93	74.00	23.07	PK	Horizontal
4	12034.57	42.61	10.32	38.97	-39.57	52.33	74.00	21.67	PK	Horizontal
5	15443.64	39.50	13.27	38.66	-39.03	52.40	74.00	21.60	PK	Horizontal
6	17958.43	38.76	12.81	41.55	-42.31	50.81	74.00	23.19	PK	Horizontal

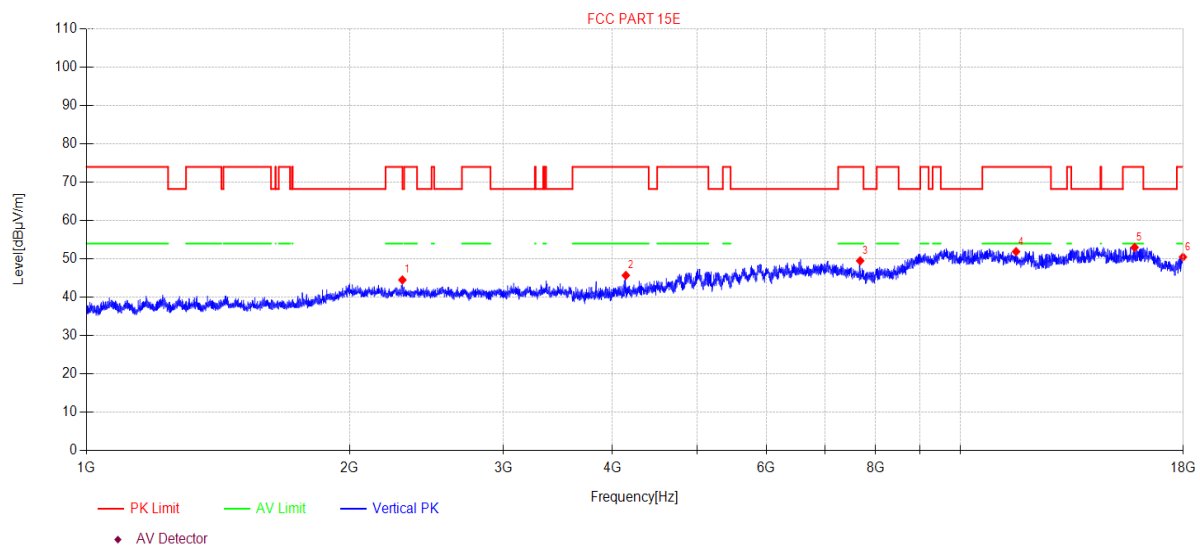
Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5180MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\16
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2299.36	49.12	5.97	27.30	-37.86	44.53	74.00	29.47	PK	Vertical
2	4142.68	48.76	6.36	30.99	-40.40	45.71	74.00	28.29	PK	Vertical
3	7682.56	46.49	8.85	36.57	-42.41	49.50	74.00	24.50	PK	Vertical
4	11584.11	42.35	9.99	38.92	-39.36	51.90	74.00	22.10	PK	Vertical
5	15832.30	38.87	15.22	38.17	-39.26	53.00	74.00	21.00	PK	Vertical
6	17984.40	38.31	12.83	41.71	-42.37	50.48	74.00	23.52	PK	Vertical

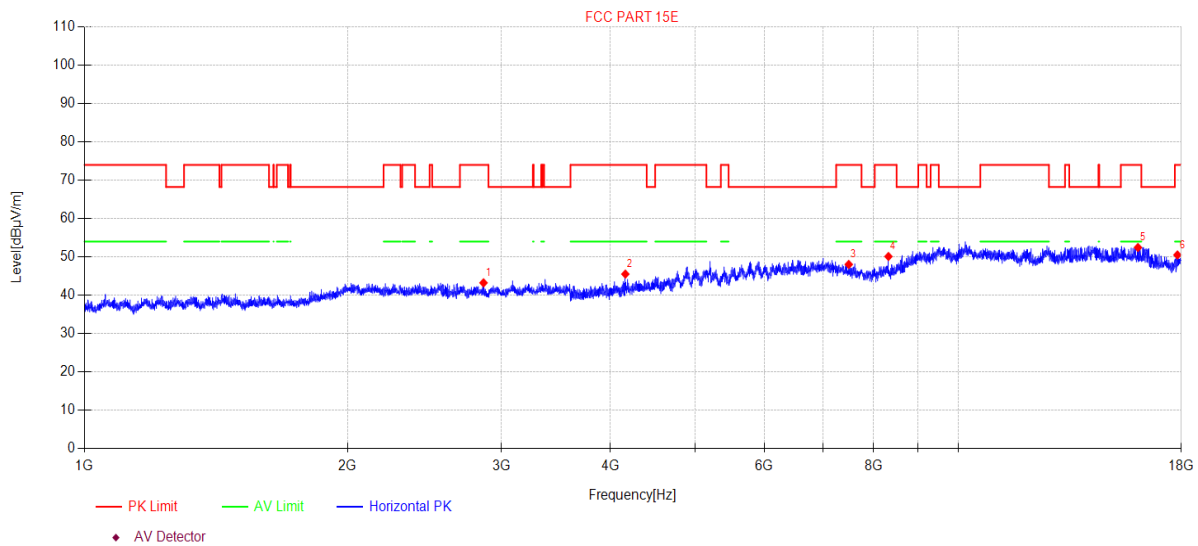
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5200MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\17
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2862.52	48.47	5.47	28.75	-39.45	43.24	74.00	30.76	PK	Horizontal
2	4159.47	48.51	6.39	31.02	-40.39	45.53	74.00	28.47	PK	Horizontal
3	7493.97	44.69	8.88	36.41	-41.93	48.05	74.00	25.95	PK	Horizontal
4	8320.48	45.83	8.88	37.20	-41.79	50.12	74.00	23.88	PK	Horizontal
5	16058.10	38.20	15.83	37.84	-39.41	52.46	74.00	21.54	PK	Horizontal
6	17818.84	39.21	12.67	40.63	-42.00	50.51	74.00	23.49	PK	Horizontal

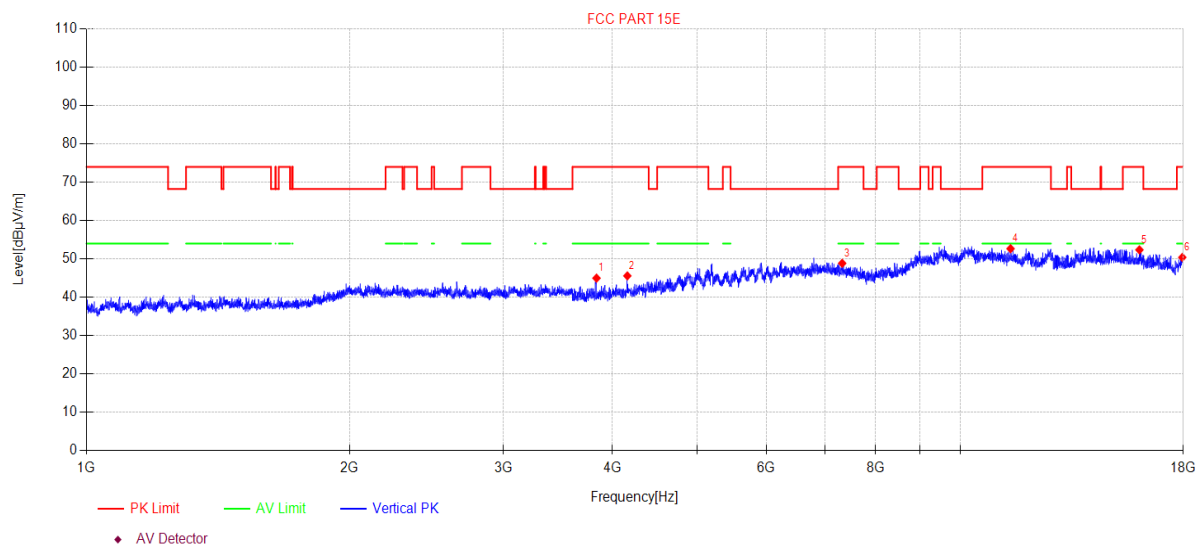
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5200MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\18
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3835.03	49.01	5.96	30.37	-40.35	44.99	74.00	29.01	PK	Vertical
2	4159.47	48.56	6.39	31.02	-40.39	45.58	74.00	28.42	PK	Vertical
3	7326.93	44.97	8.91	36.50	-41.52	48.86	74.00	25.14	PK	Vertical
4	11417.92	43.03	9.85	39.08	-39.29	52.67	74.00	21.33	PK	Vertical
5	16034.91	37.97	15.92	37.87	-39.39	52.37	74.00	21.63	PK	Vertical
6	17953.24	38.38	12.80	41.52	-42.30	50.40	74.00	23.60	PK	Vertical

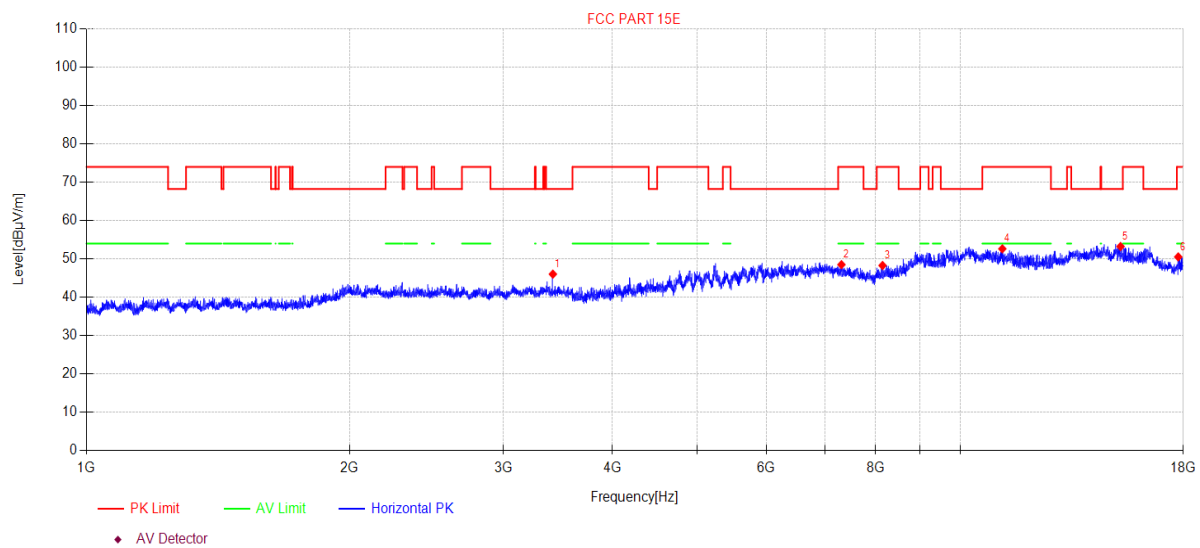
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5240MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\19
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3418.33	50.97	5.66	29.50	-40.10	46.03	68.20	22.17	PK	Horizontal
2	7312.12	44.58	8.91	36.50	-41.48	48.51	74.00	25.49	PK	Horizontal
3	8149.13	44.98	8.84	37.00	-42.54	48.28	74.00	25.72	PK	Horizontal
4	11173.09	43.04	9.66	39.10	-39.17	52.63	74.00	21.37	PK	Horizontal
5	15257.31	40.98	12.33	38.84	-38.91	53.24	68.20	14.96	PK	Horizontal
6	17762.28	39.53	12.62	40.24	-41.87	50.52	74.00	23.48	PK	Horizontal

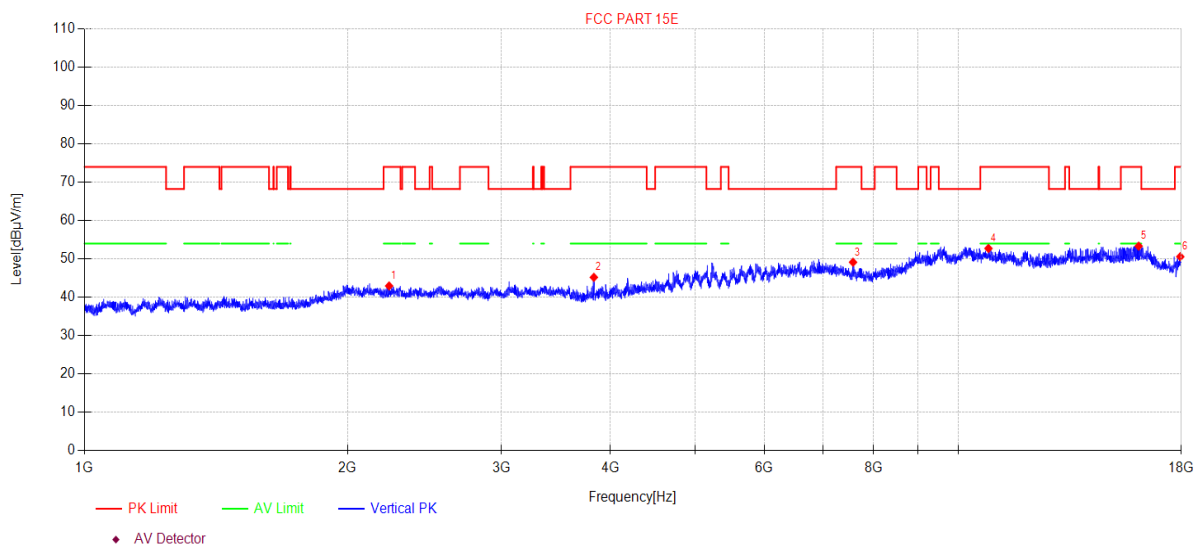
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5240MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\20
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2231.93	47.33	6.03	27.26	-37.67	42.95	74.00	31.05	PK	Vertical
2	3828.39	49.24	5.95	30.36	-40.35	45.20	74.00	28.80	PK	Vertical
3	7578.91	46.01	8.87	36.40	-42.15	49.13	74.00	24.87	PK	Vertical
4	10829.73	43.16	9.50	39.10	-39.03	52.73	74.00	21.27	PK	Vertical
5	16085.97	39.24	15.71	37.81	-39.43	53.33	74.00	20.67	PK	Vertical
6	17953.24	38.57	12.80	41.52	-42.30	50.59	74.00	23.41	PK	Vertical

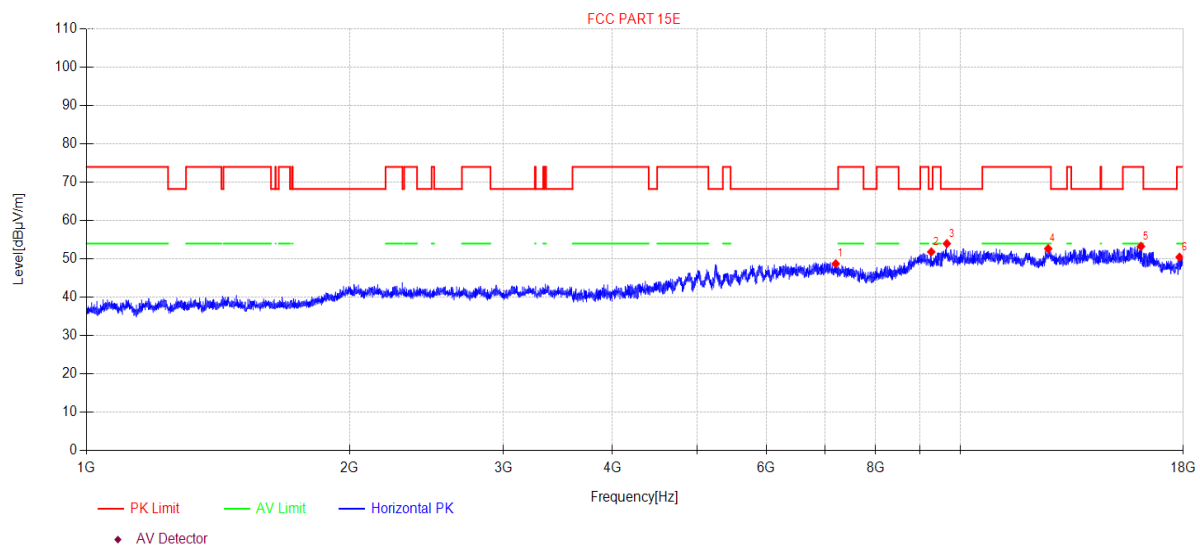
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5260MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\21
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7203.05	44.52	8.93	36.50	-41.21	48.74	68.20	19.46	PK	Horizontal
2	9264.88	43.05	9.14	38.40	-38.77	51.82	68.20	16.38	PK	Horizontal
3	9653.01	45.13	9.29	38.30	-38.74	53.98	68.20	14.22	PK	Horizontal
4	12607.77	42.89	10.36	39.22	-39.80	52.67	74.00	21.33	PK	Horizontal
5	16099.92	39.25	15.65	37.80	-39.44	53.26	74.00	20.74	PK	Horizontal
6	17823.99	39.12	12.68	40.67	-42.01	50.46	74.00	23.54	PK	Horizontal

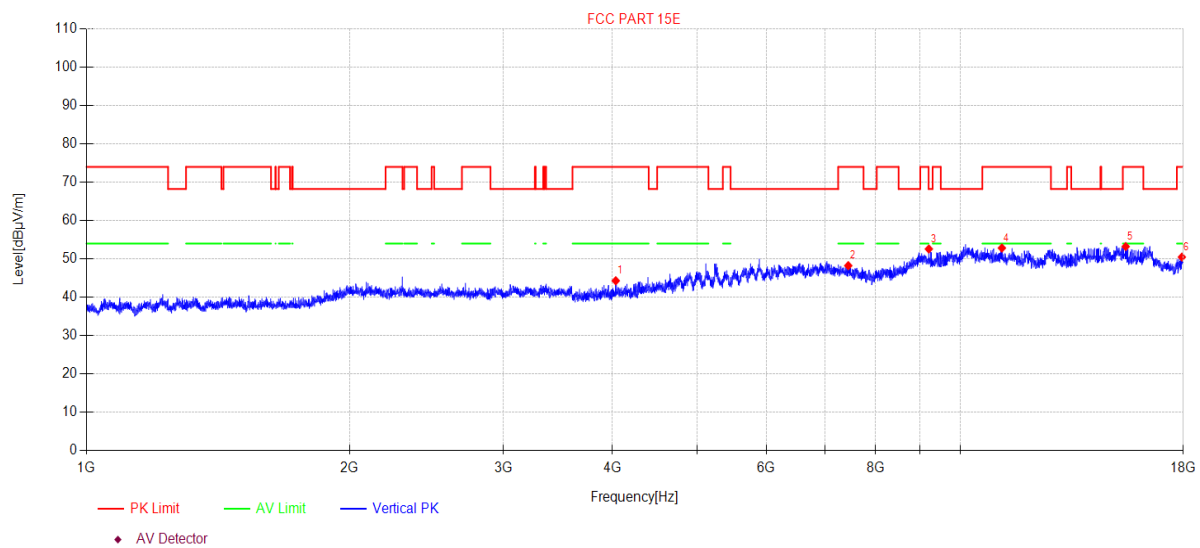
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5260MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\22
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4033.98	47.82	6.15	30.77	-40.44	44.30	74.00	29.70	PK	Vertical
2	7444.32	44.66	8.89	36.50	-41.81	48.24	74.00	25.76	PK	Vertical
3	9206.16	43.94	9.12	38.31	-38.78	52.59	68.20	15.61	PK	Vertical
4	11160.18	43.26	9.65	39.10	-39.17	52.84	74.00	21.16	PK	Vertical
5	15465.97	40.25	13.38	38.63	-39.04	53.22	74.00	20.78	PK	Vertical
6	17932.50	38.56	12.78	41.39	-42.25	50.48	74.00	23.52	PK	Vertical

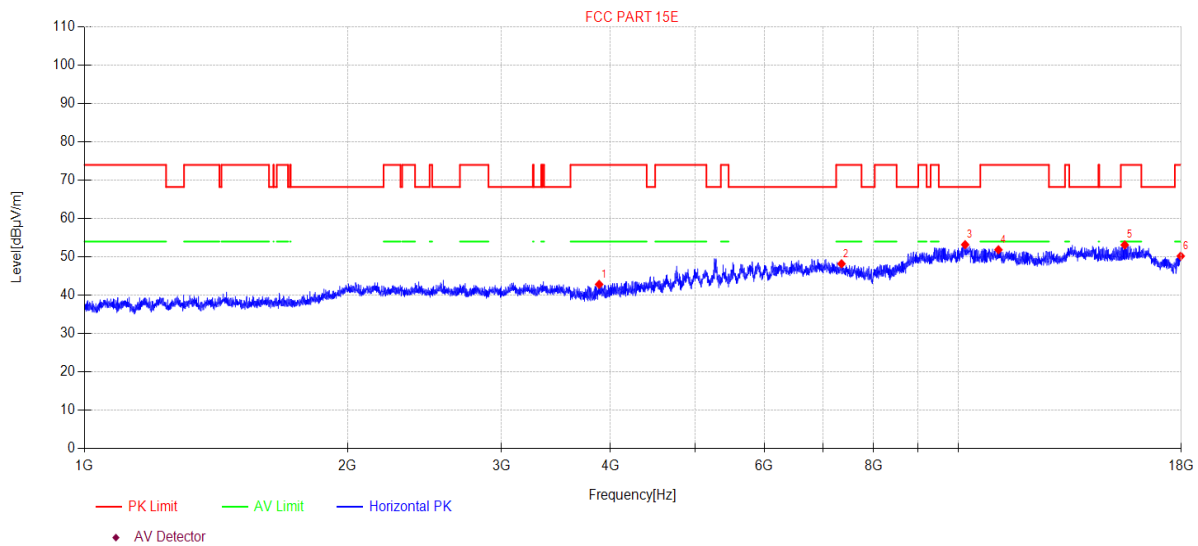
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5280MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\23
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3881.87	46.77	5.99	30.46	-40.38	42.84	74.00	31.16	PK	Horizontal
2	7352.38	44.39	8.90	36.50	-41.58	48.21	74.00	25.79	PK	Horizontal
3	10183.17	43.86	9.44	38.68	-38.79	53.19	68.20	15.01	PK	Horizontal
4	11118.33	42.30	9.61	39.10	-39.15	51.86	74.00	22.14	PK	Horizontal
5	15506.25	40.01	13.58	38.59	-39.06	53.12	74.00	20.88	PK	Horizontal
6	17974.01	38.10	12.82	41.64	-42.34	50.22	74.00	23.78	PK	Horizontal

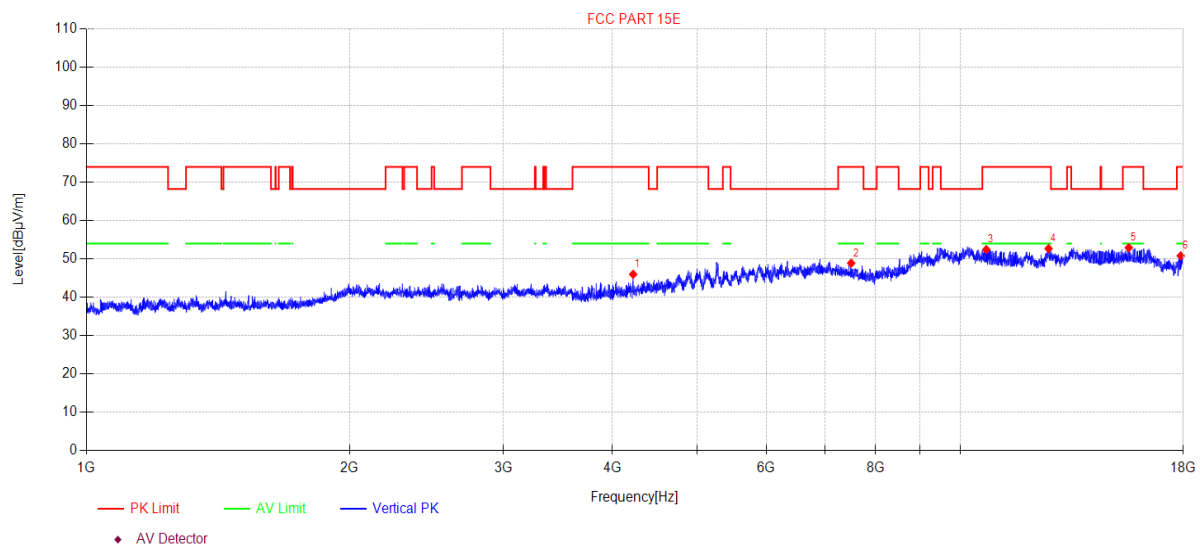
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5280MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\24
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4223.68	48.70	6.51	31.15	-40.37	45.99	74.00	28.01	PK	Vertical
2	7502.64	45.58	8.88	36.40	-41.96	48.90	74.00	25.10	PK	Vertical
3	10711.45	42.82	9.49	39.10	-38.98	52.43	74.00	21.57	PK	Vertical
4	12622.36	42.90	10.36	39.24	-39.80	52.70	74.00	21.30	PK	Vertical
5	15591.64	39.59	14.01	38.42	-39.11	52.91	74.00	21.09	PK	Vertical
6	17880.75	39.14	12.73	41.07	-42.13	50.81	74.00	23.19	PK	Vertical

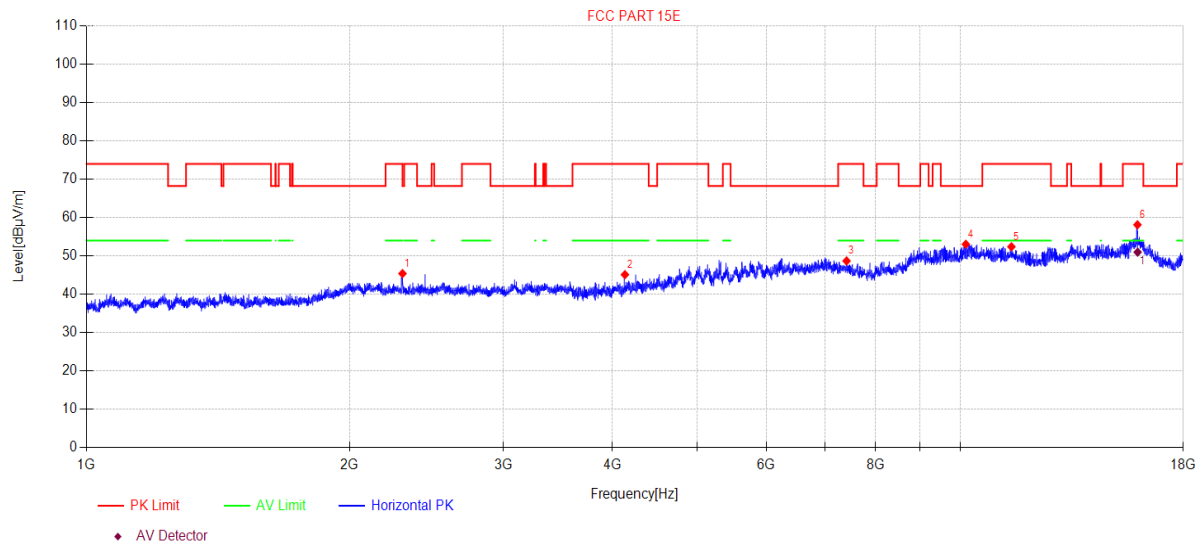
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5320MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\13
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2300.03	49.99	5.97	27.30	-37.86	45.40	68.20	22.80	PK	Horizontal
2	4133.11	48.21	6.34	30.97	-40.40	45.12	74.00	28.88	PK	Horizontal
3	7412.12	45.03	8.89	36.50	-41.73	48.69	74.00	25.31	PK	Horizontal
4	10147.92	43.73	9.43	38.65	-38.77	53.04	68.20	15.16	PK	Horizontal
5	11444.35	42.75	9.88	39.06	-39.30	52.39	74.00	21.61	PK	Horizontal
6	15951.71	43.61	15.83	38.00	-39.33	58.11	74.00	15.89	PK	Horizontal

Final Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	15959.92	36.48	15.83	38.00	-39.33	50.98	54.00	3.02	AV	Horizontal

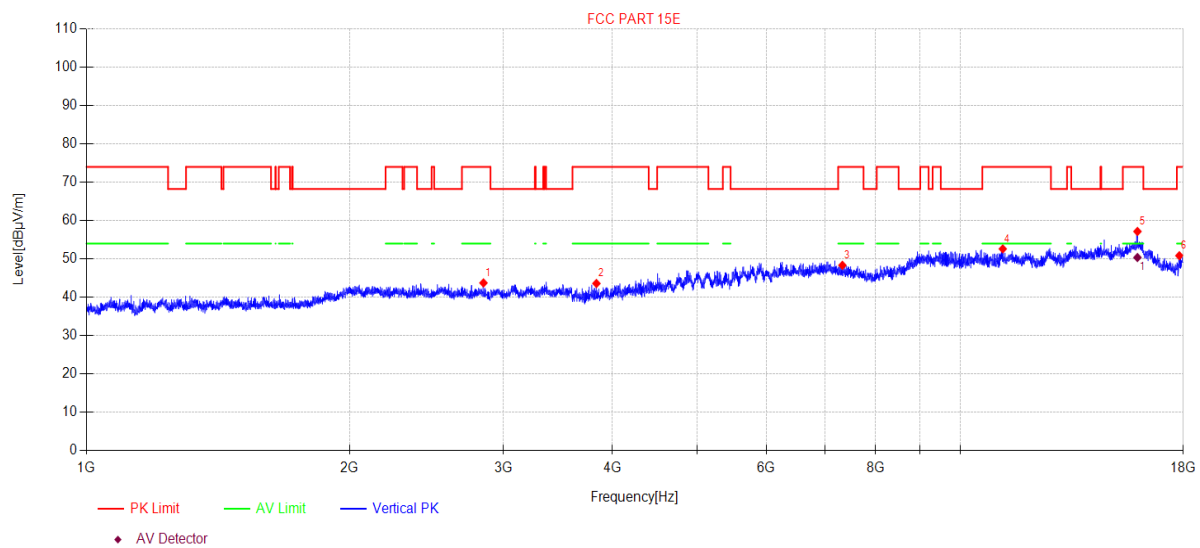
Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5320MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5GWIFI\14
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2846.84	48.98	5.48	28.69	-39.41	43.74	74.00	30.26	PK	Vertical
2	3833.92	47.62	5.96	30.37	-40.35	43.60	74.00	30.40	PK	Vertical
3	7331.16	44.45	8.91	36.50	-41.53	48.33	74.00	25.67	PK	Vertical
4	11186.01	43.02	9.67	39.10	-39.18	52.61	74.00	21.39	PK	Vertical
5	15951.71	42.66	15.83	38.00	-39.33	57.16	74.00	16.84	PK	Vertical
6	17813.69	39.55	12.67	40.60	-41.98	50.84	74.00	23.16	PK	Vertical

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	15951.71	35.87	15.83	38.00	-39.33	50.37	54.00	3.63	AV	Vertical

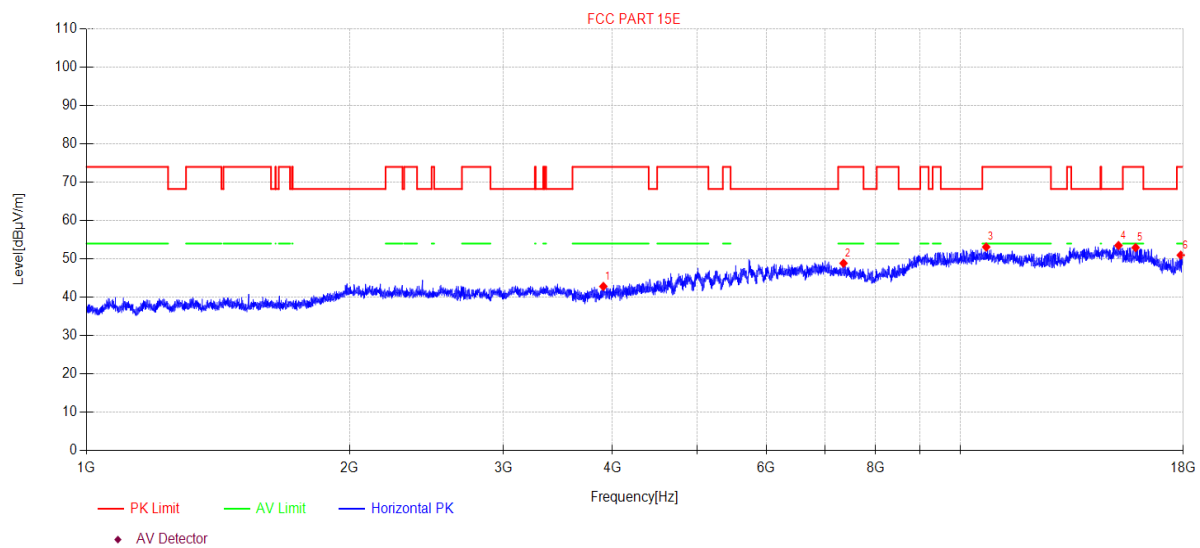
Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5745MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\1
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3904.37	46.70	6.01	30.51	-40.39	42.83	74.00	31.17	PK	Horizontal
2	7352.38	45.04	8.90	36.50	-41.58	48.86	74.00	25.14	PK	Horizontal
3	10708.35	43.50	9.49	39.10	-38.98	53.11	74.00	20.89	PK	Horizontal
4	15173.76	41.49	11.91	38.95	-38.86	53.49	68.20	14.71	PK	Horizontal
5	15873.53	38.67	15.43	38.13	-39.28	52.95	74.00	21.05	PK	Horizontal
6	17880.75	39.31	12.73	41.07	-42.13	50.98	74.00	23.02	PK	Horizontal

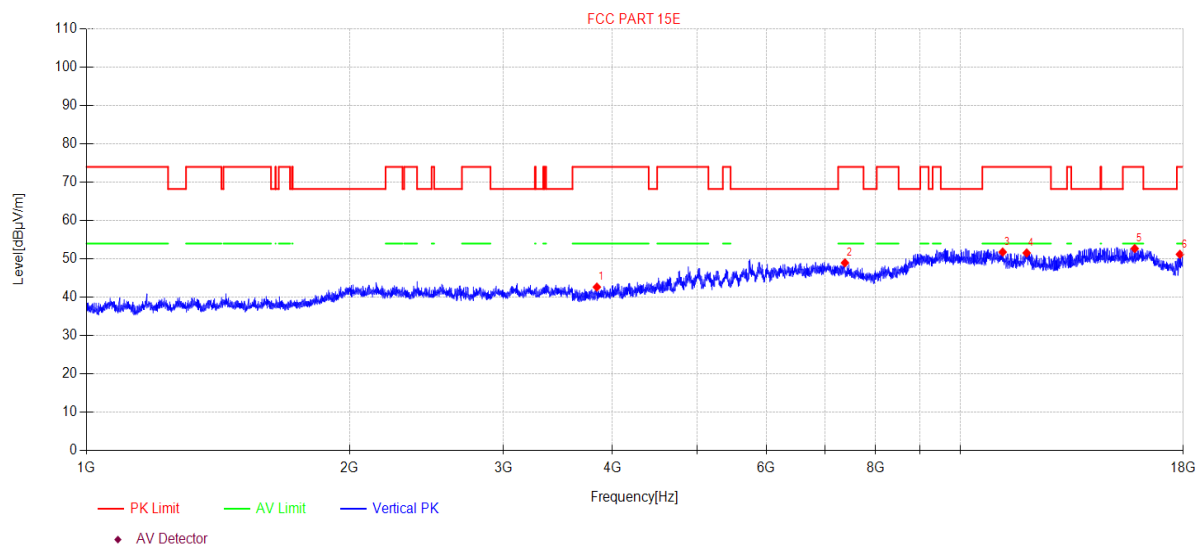
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5745MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\2
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3838.36	46.67	5.96	30.38	-40.35	42.66	74.00	31.34	PK	Vertical
2	7380.06	45.22	8.90	36.50	-41.65	48.97	74.00	25.03	PK	Vertical
3	11182.78	42.19	9.67	39.10	-39.18	51.78	74.00	22.22	PK	Vertical
4	11913.45	42.01	10.25	38.81	-39.52	51.55	74.00	22.45	PK	Vertical
5	15836.88	38.54	15.25	38.16	-39.26	52.69	74.00	21.31	PK	Vertical
6	17839.45	39.76	12.69	40.78	-42.04	51.19	74.00	22.81	PK	Vertical

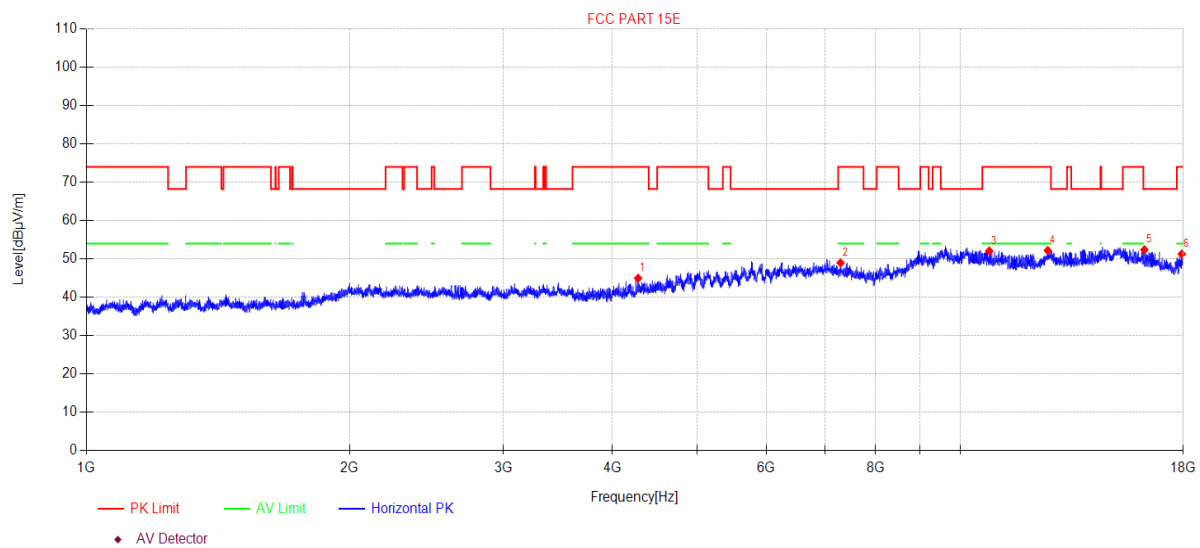
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5785MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\3
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4278.97	47.44	6.62	31.26	-40.35	44.97	74.00	29.03	PK	Horizontal
2	7295.23	45.00	8.91	36.50	-41.44	48.97	74.00	25.03	PK	Horizontal
3	10795.36	42.49	9.50	39.10	-39.01	52.08	74.00	21.92	PK	Horizontal
4	12593.21	42.45	10.36	39.19	-39.79	52.21	74.00	21.79	PK	Horizontal
5	16244.82	39.26	15.04	37.66	-39.56	52.40	68.20	15.80	PK	Horizontal
6	17927.32	39.37	12.78	41.36	-42.24	51.27	74.00	22.73	PK	Horizontal

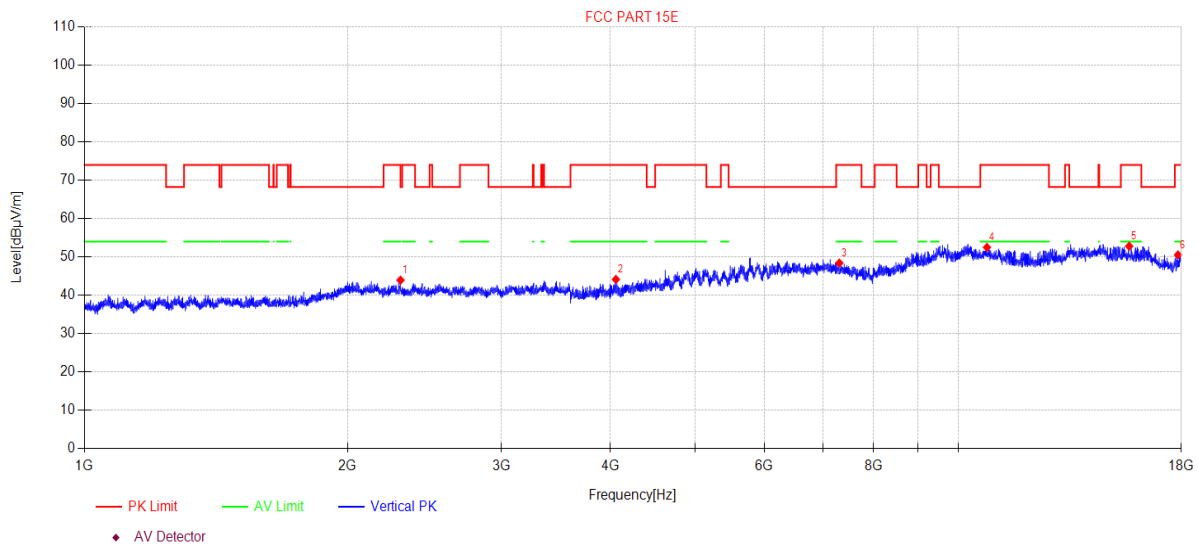
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5785MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\4
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2300.03	48.53	5.97	27.30	-37.86	43.94	68.20	24.26	PK	Vertical
2	4057.37	47.57	6.19	30.81	-40.43	44.14	74.00	29.86	PK	Vertical
3	7310.00	44.46	8.91	36.50	-41.48	48.39	74.00	25.61	PK	Vertical
4	10786.00	42.90	9.50	39.10	-39.01	52.49	74.00	21.51	PK	Vertical
5	15691.09	39.14	14.51	38.31	-39.17	52.79	74.00	21.21	PK	Vertical
6	17844.61	39.06	12.70	40.81	-42.05	50.52	74.00	23.48	PK	Vertical

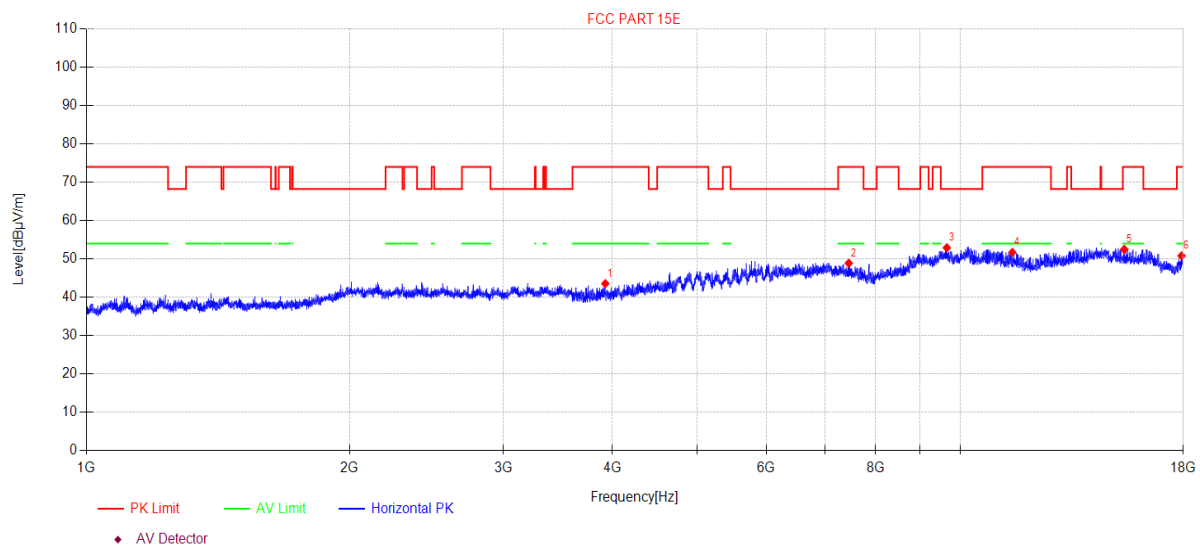
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5825MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\5
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3924.73	47.38	6.03	30.55	-40.40	43.56	74.00	30.44	PK	Horizontal
2	7455.09	45.34	8.89	36.49	-41.84	48.88	74.00	25.12	PK	Horizontal
3	9653.01	44.05	9.29	38.30	-38.74	52.90	68.20	15.30	PK	Horizontal
4	11470.84	42.08	9.90	39.03	-39.31	51.70	74.00	22.30	PK	Horizontal
5	15407.98	39.73	13.09	38.69	-39.00	52.51	74.00	21.49	PK	Horizontal
6	17916.96	38.94	12.77	41.30	-42.21	50.80	74.00	23.20	PK	Horizontal

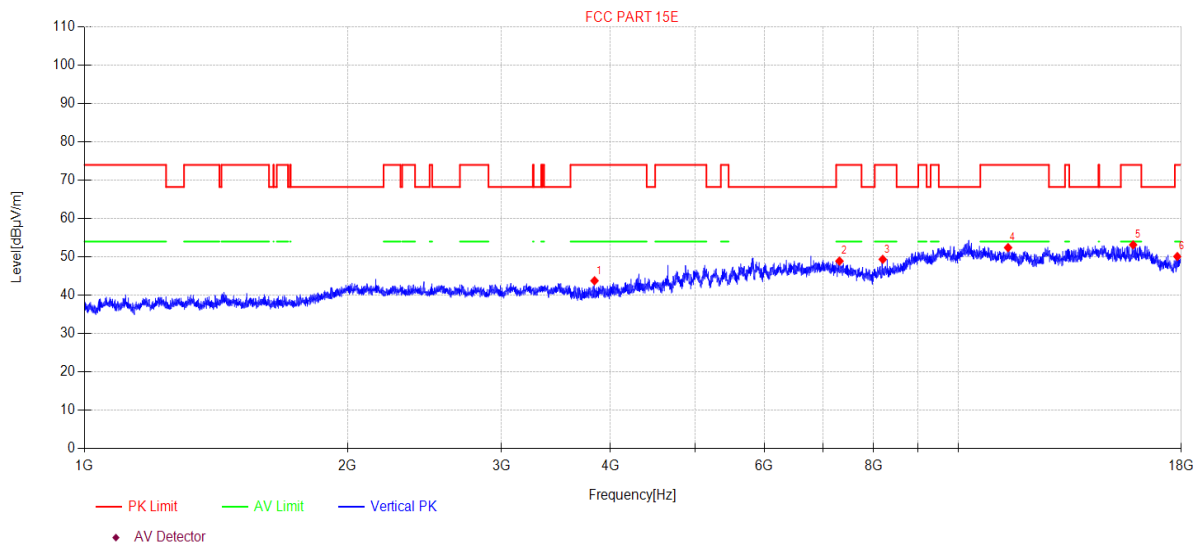
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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 Date: 2023-09-13 **Tested By:** Bairong
EUT: Multimedia **Model Number:** Kansas City 100
Test Mode: 11A TX 5825MHz **Power Supply:** DC 12V
Condition: Temp:20.7°C;Humi:60.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082411-2E\FCC ABOVE 1G 5.8GWIFI\6
Memo: Sample Number:S23082411-02 Power Setting:20

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3835.03	47.81	5.96	30.37	-40.35	43.79	74.00	30.21	PK	Vertical
2	7312.12	44.98	8.91	36.50	-41.48	48.91	74.00	25.09	PK	Vertical
3	8196.37	45.76	8.85	37.09	-42.33	49.37	74.00	24.63	PK	Vertical
4	11404.72	42.76	9.84	39.10	-39.28	52.42	74.00	21.58	PK	Vertical
5	15855.19	38.94	15.34	38.14	-39.27	53.15	74.00	20.85	PK	Vertical
6	17813.69	38.82	12.67	40.60	-41.98	50.11	74.00	23.89	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
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.