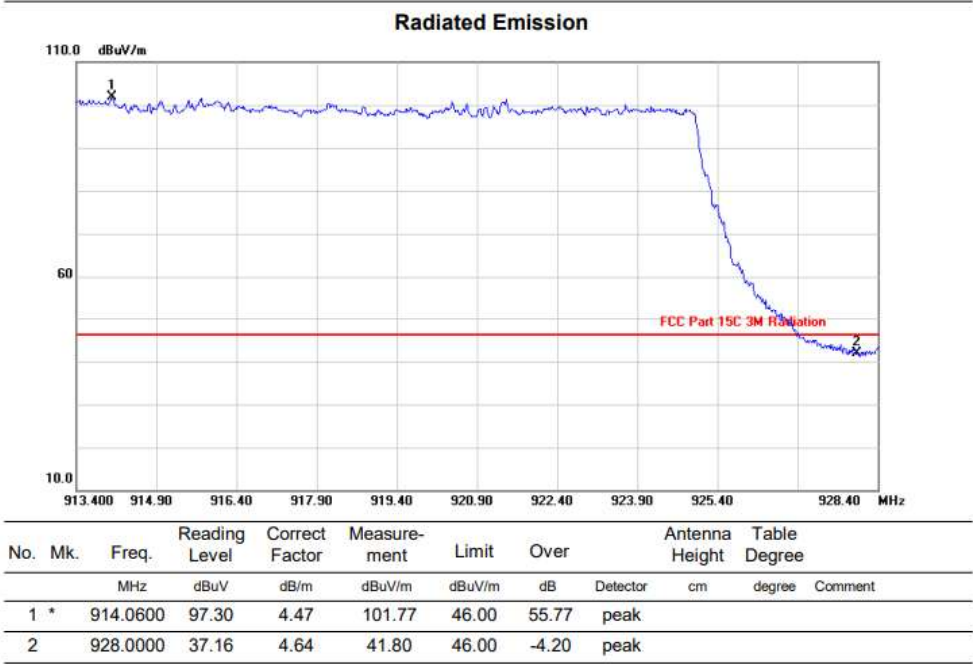
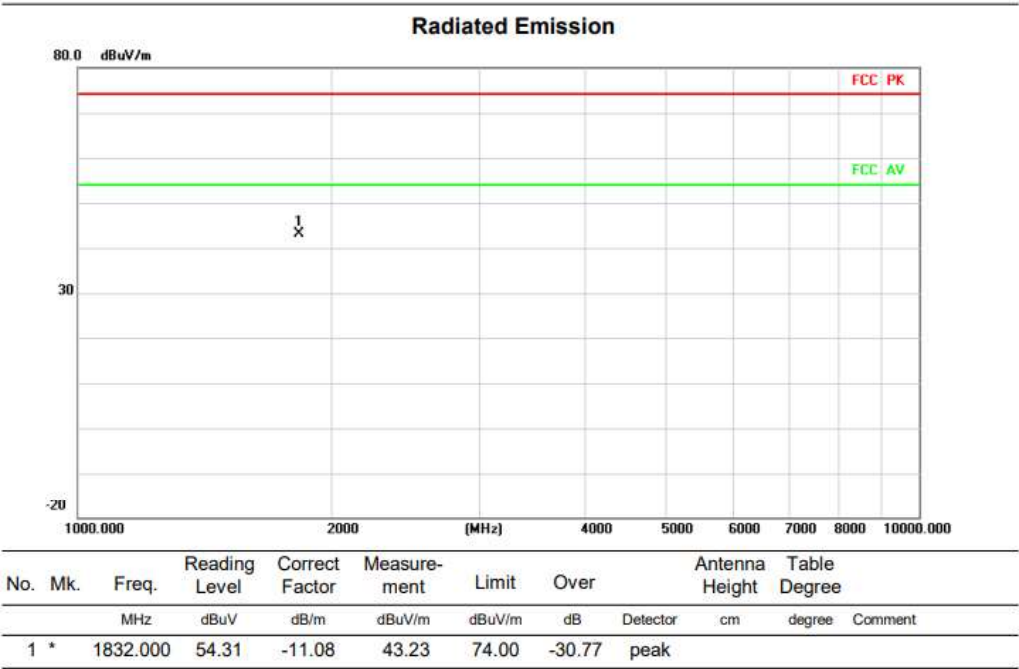




900M 20MHz-Channel 3: Horizontal



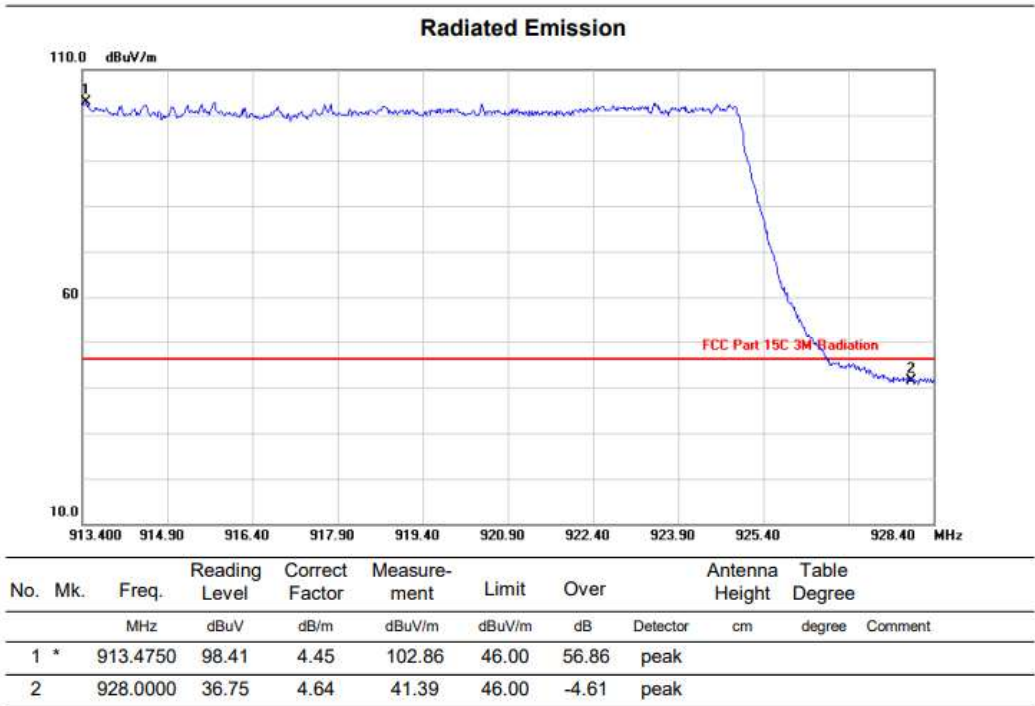
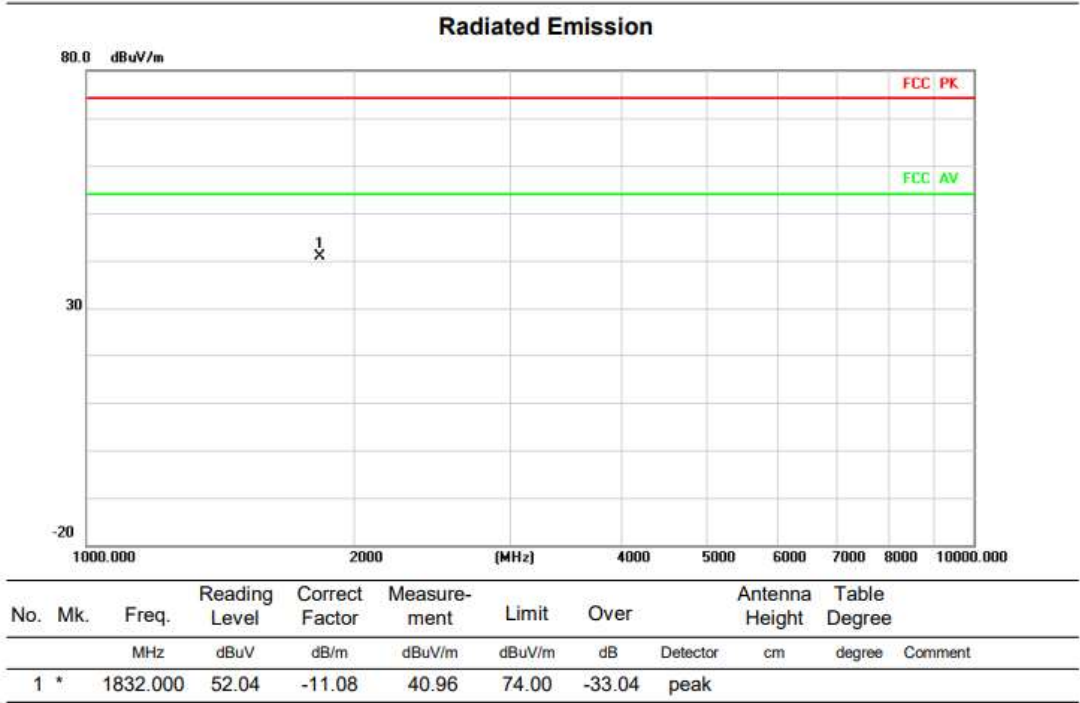
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900M 20MHz-Channel 3: Vertical



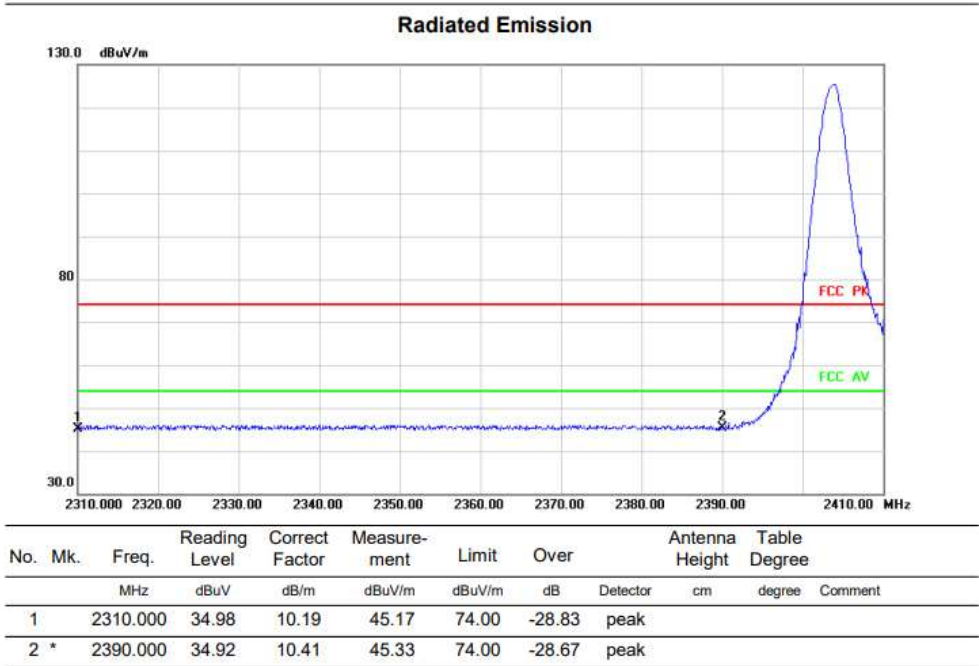
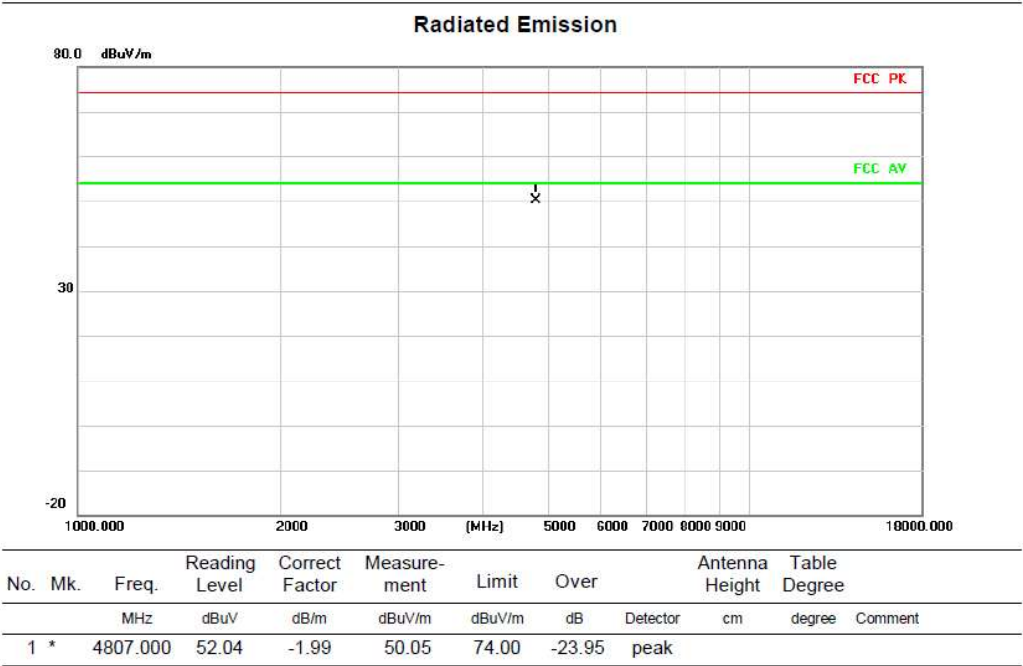
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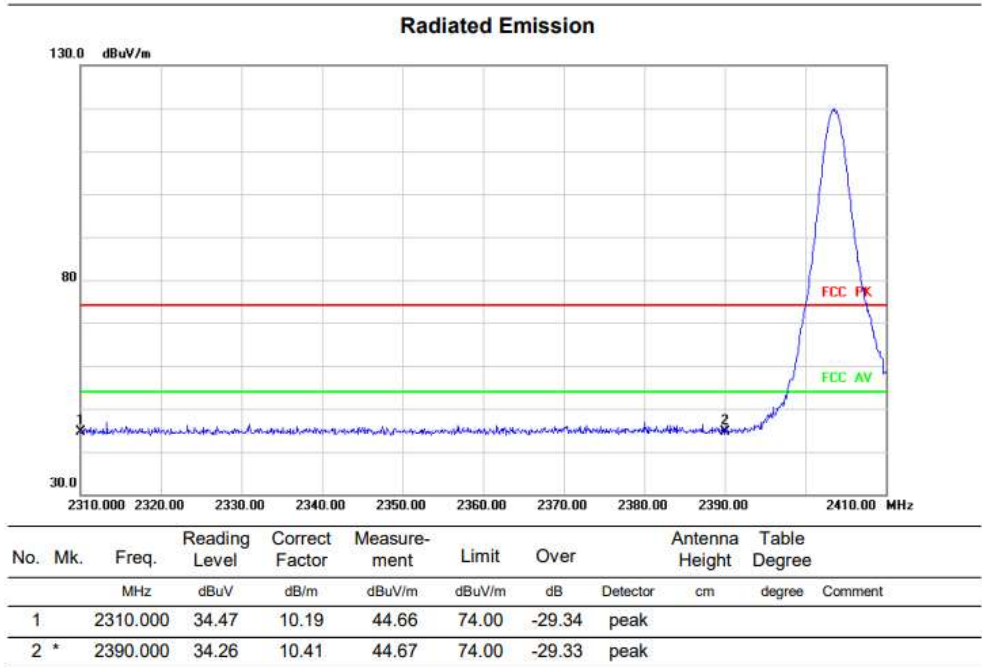
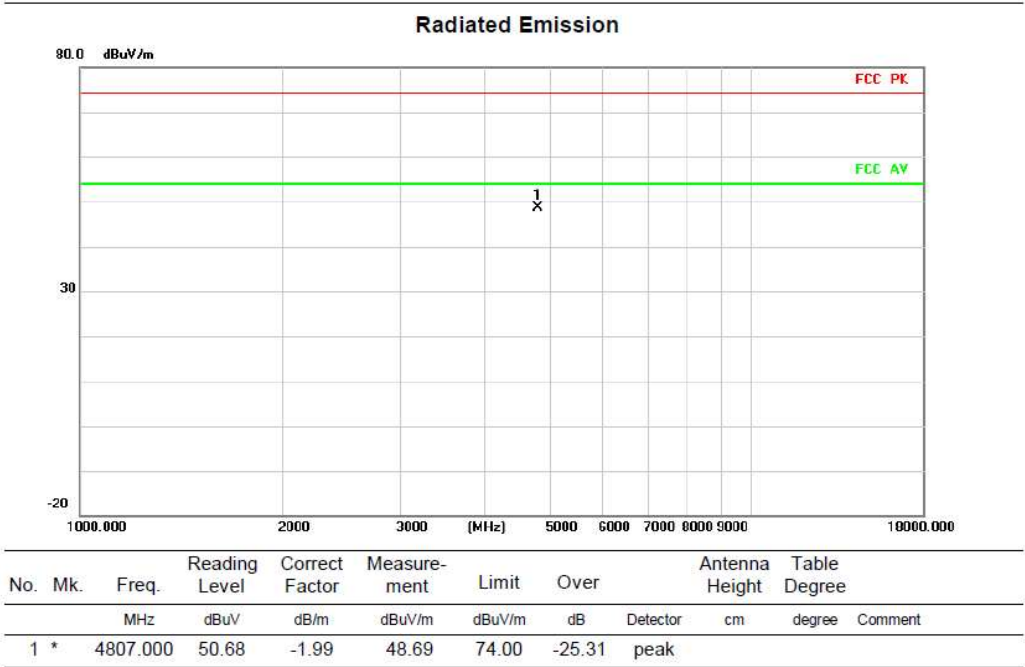
For 2.4G transfer image
For external antenna
2.4G 1.4MHz Channel-1: Horizontal



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2.4G 1.4MHz Channel-1: Vertical



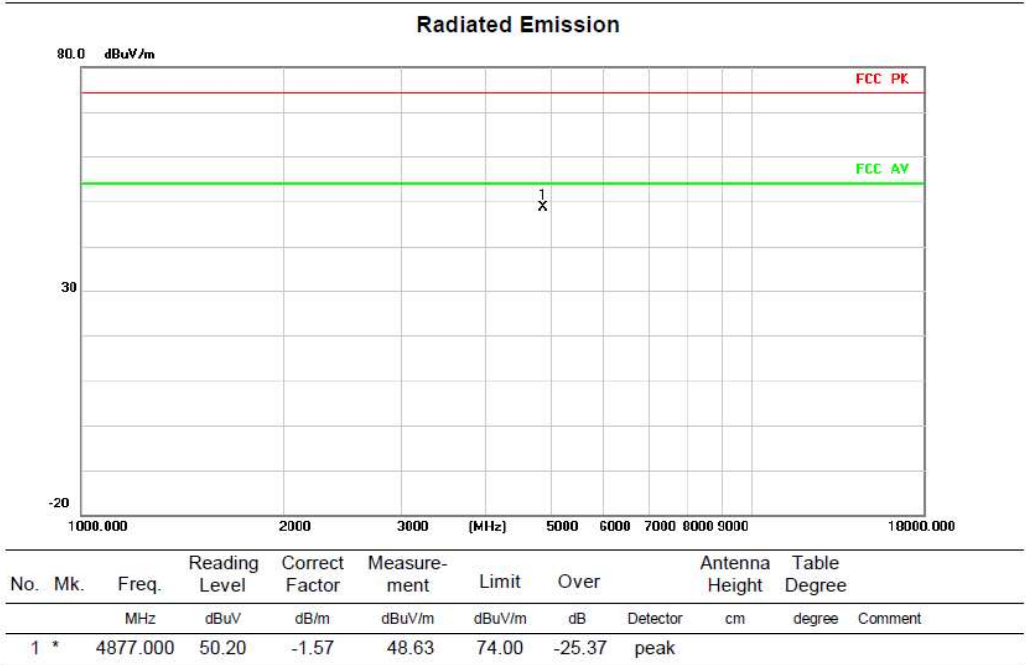
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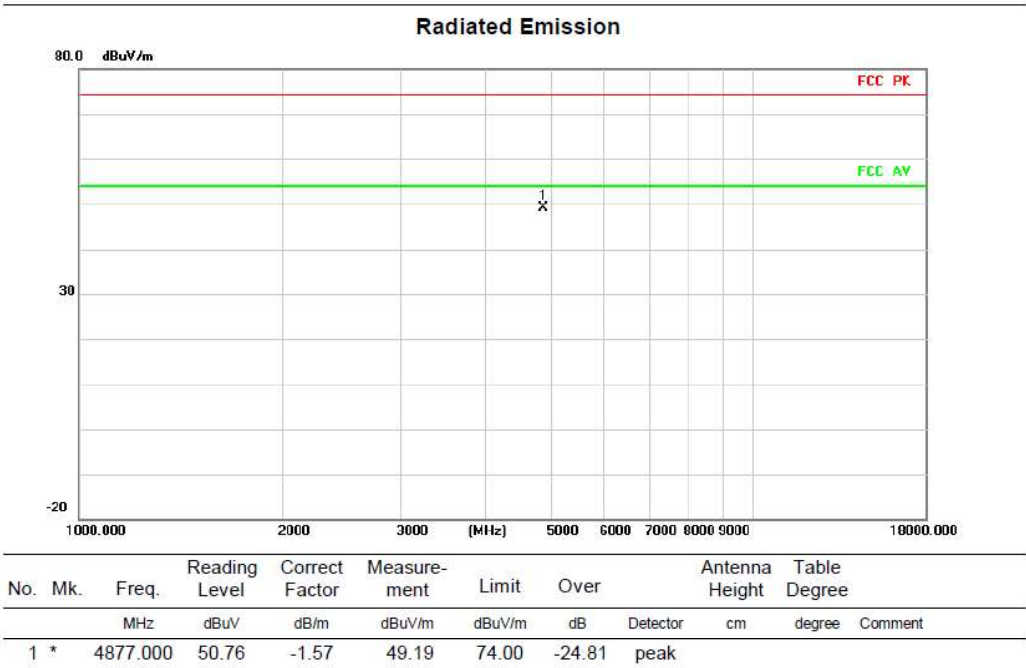
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2.4G 1.4MHz Channel-35: Horizontal



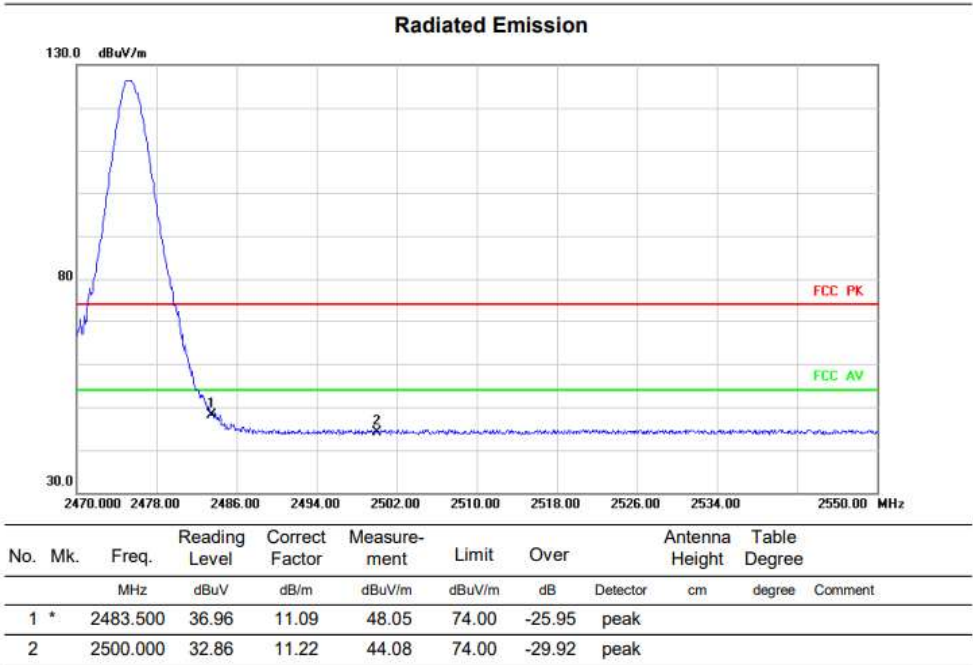
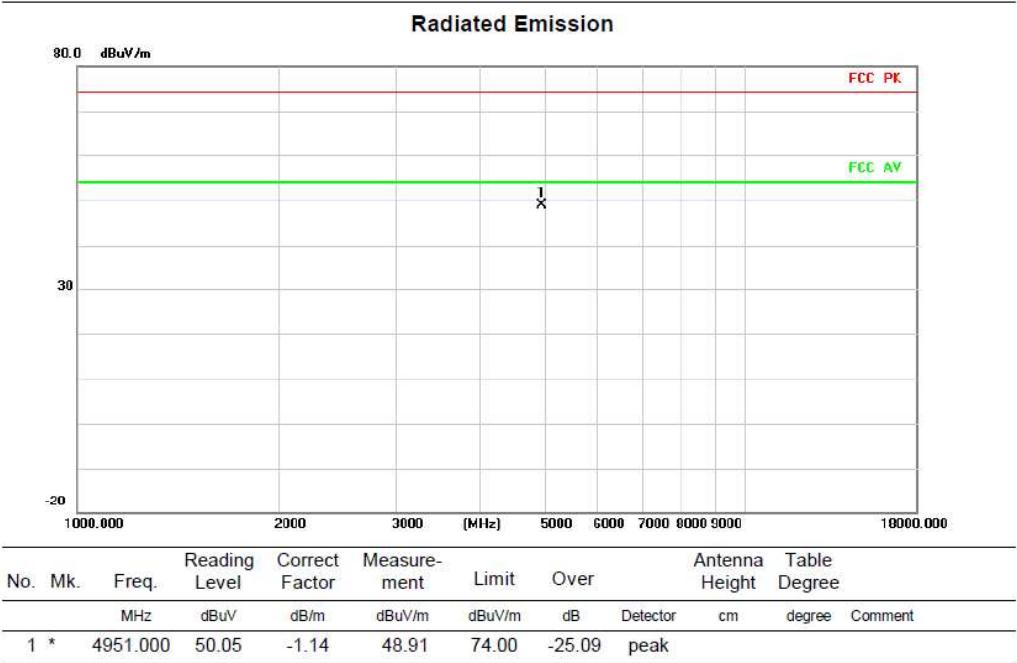
2.4G 1.4MHz Channel-35: Vertical



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2.4G 1.4MHz Channel-73: Horizontal



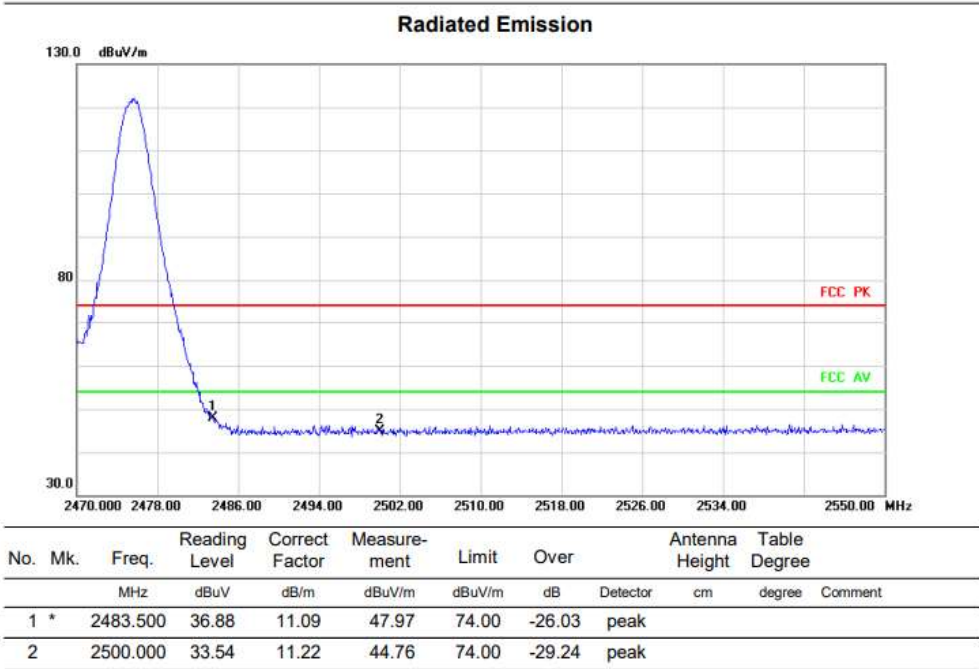
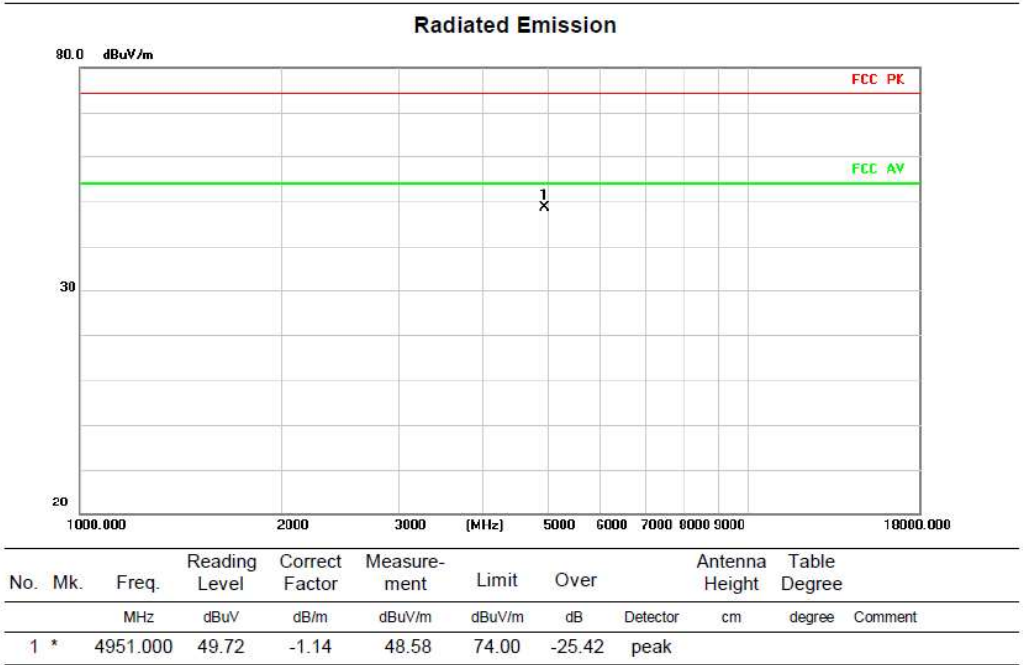
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2.4G 1.4MHz Channel-73: Vertical



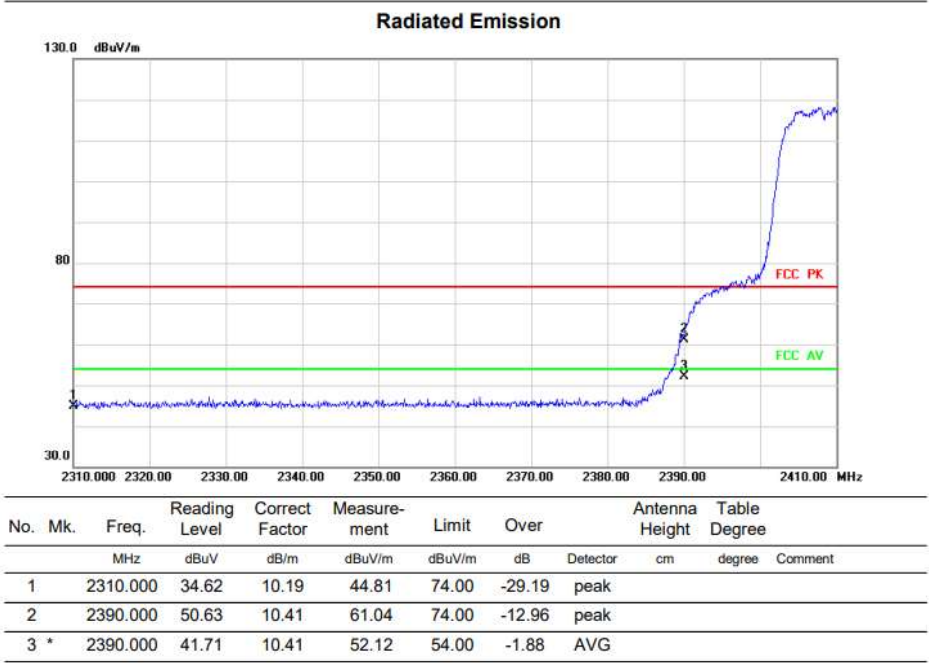
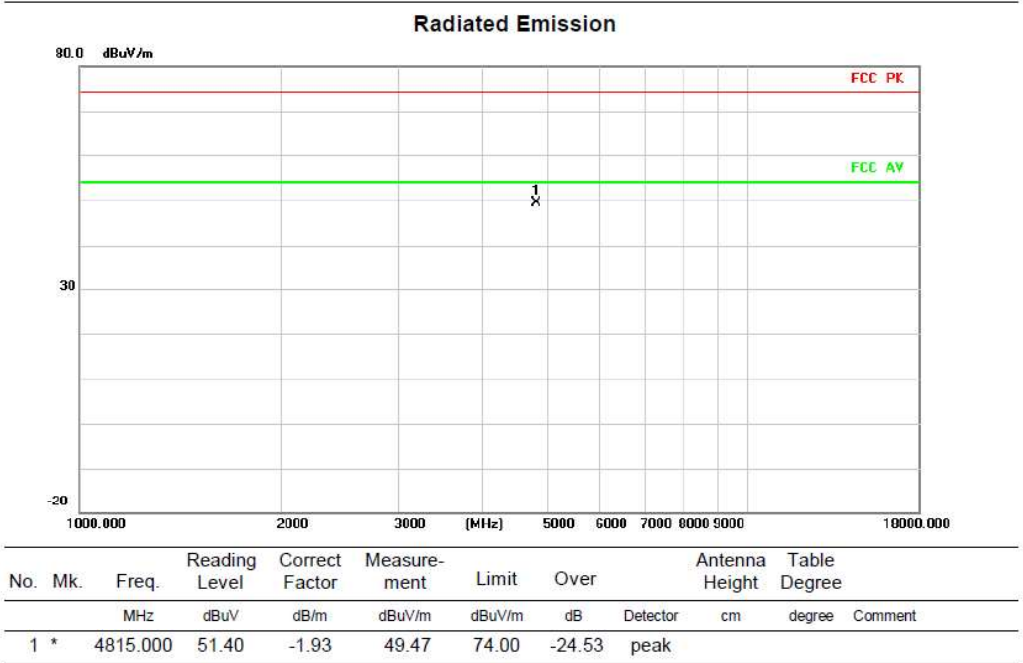
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2.4G 10MHz Channel-1: Horizontal



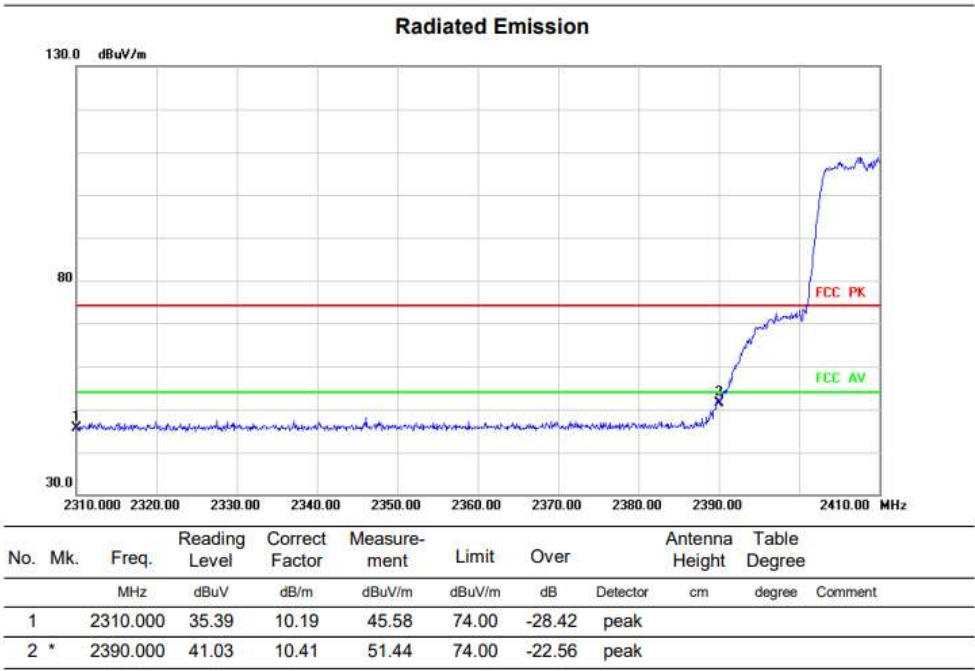
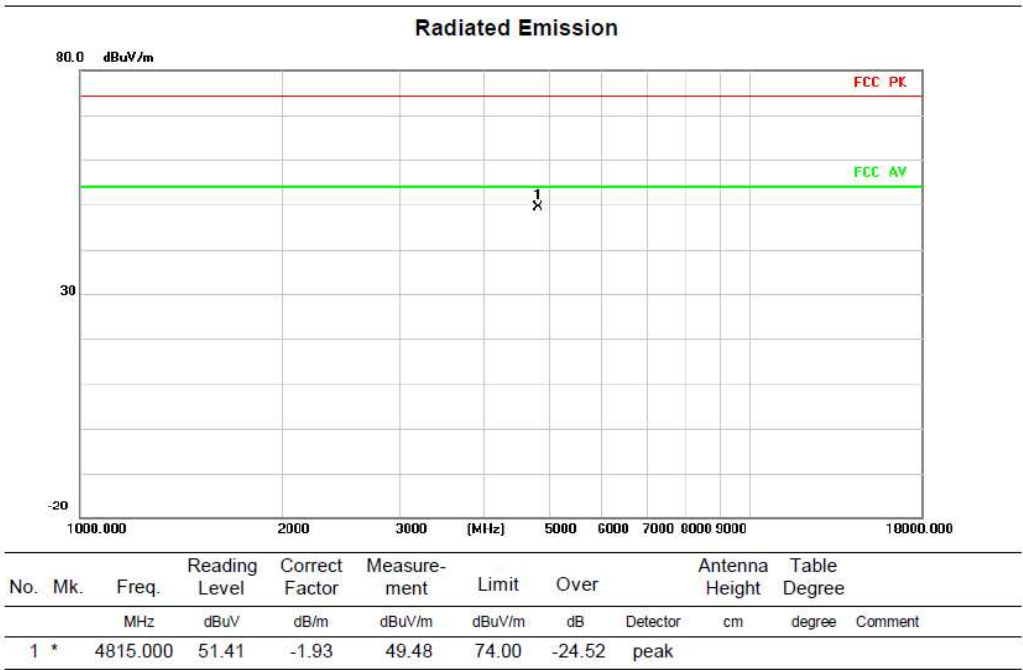
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2.4G 10MHz Channel-1: Vertical



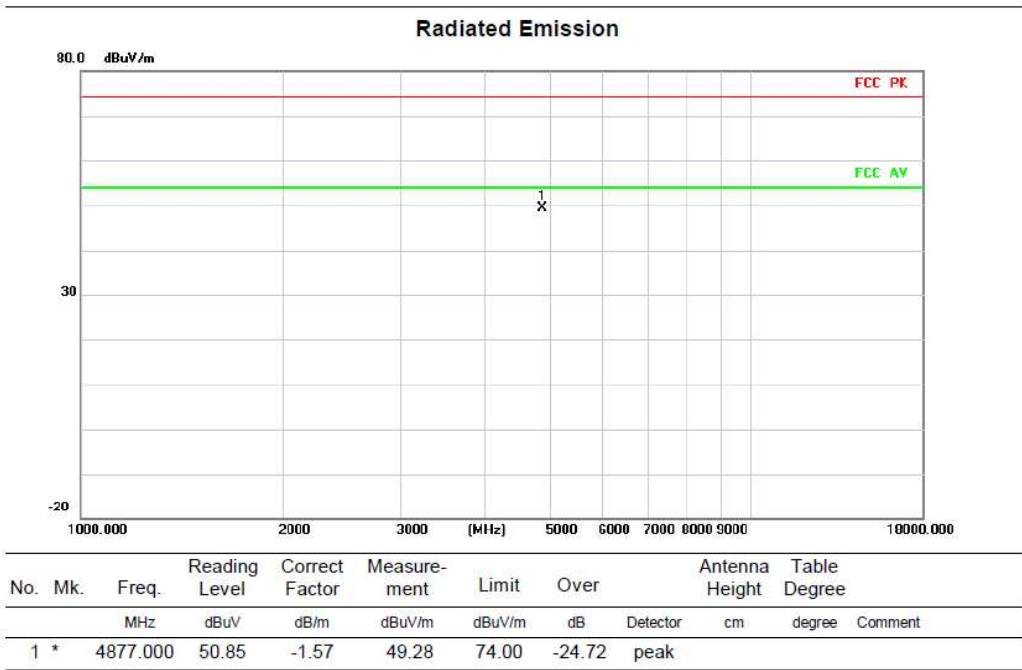
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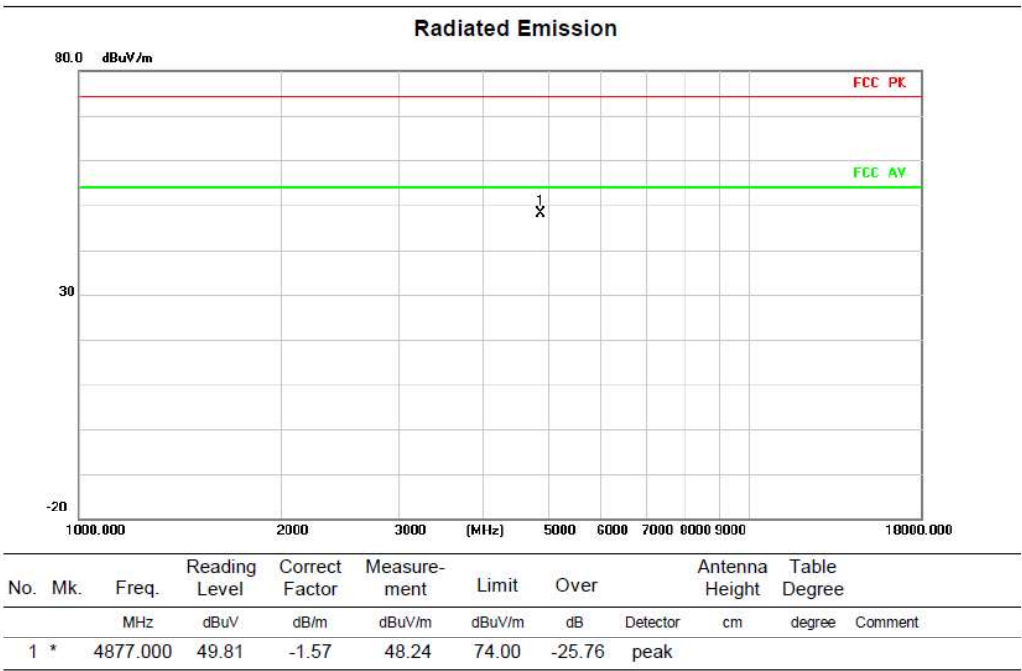
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2.4G 10MHz Channel-32: Horizontal



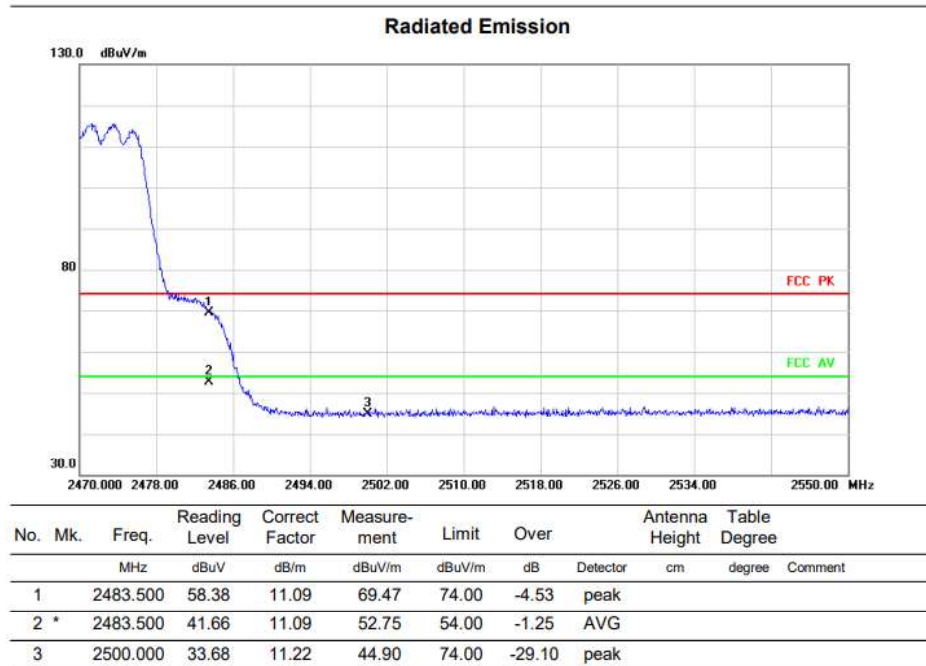
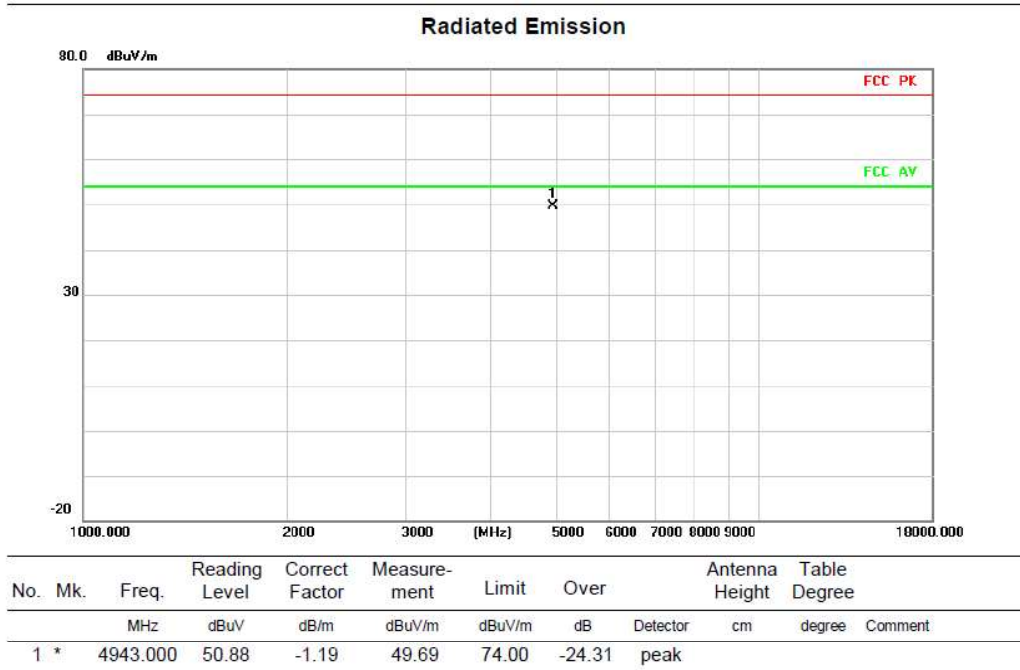
2.4G 10MHz Channel-32: Vertical



The report refers only to the sample tested and does not apply to the bulk.
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2.4G 10MHz Channel-65: Horizontal



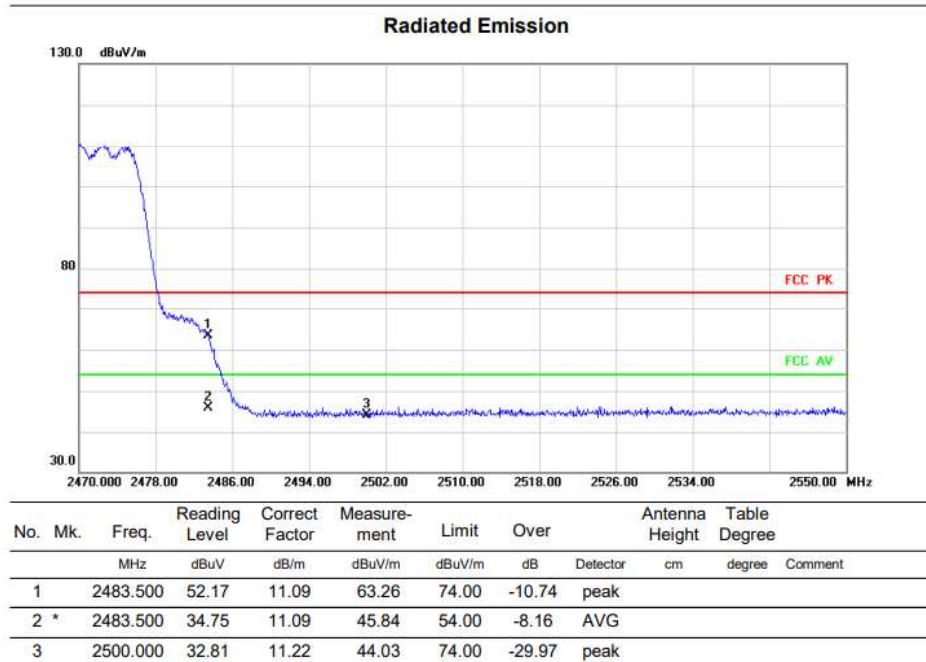
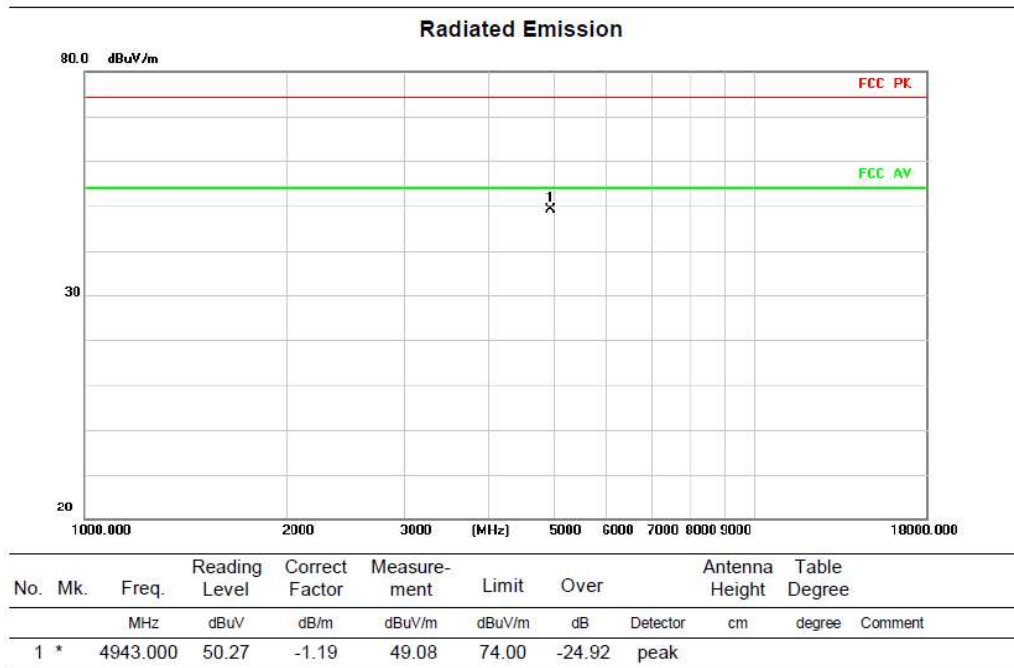
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2.4G 10MHz Channel-65: Vertical



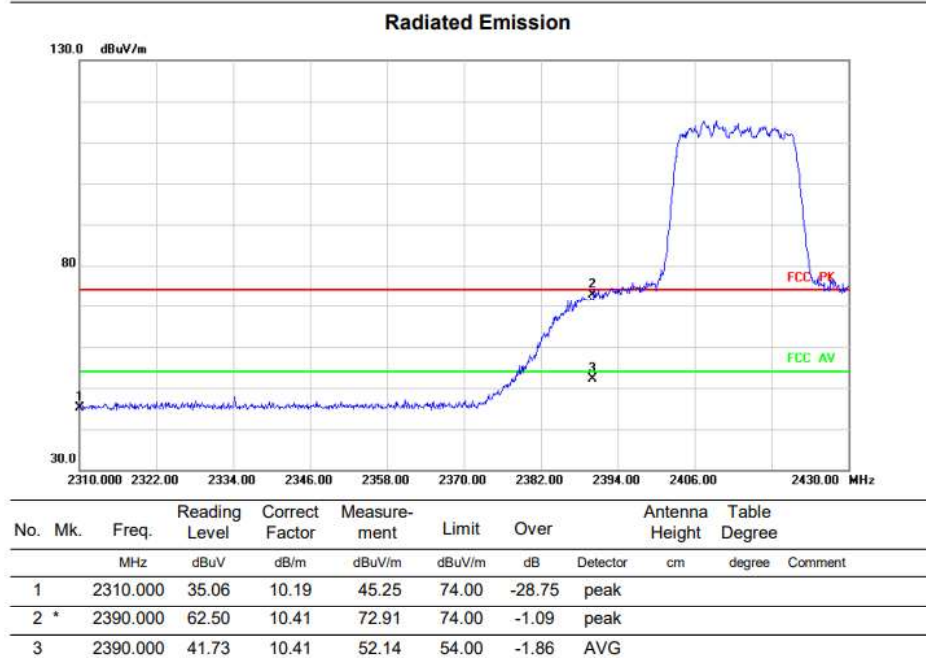
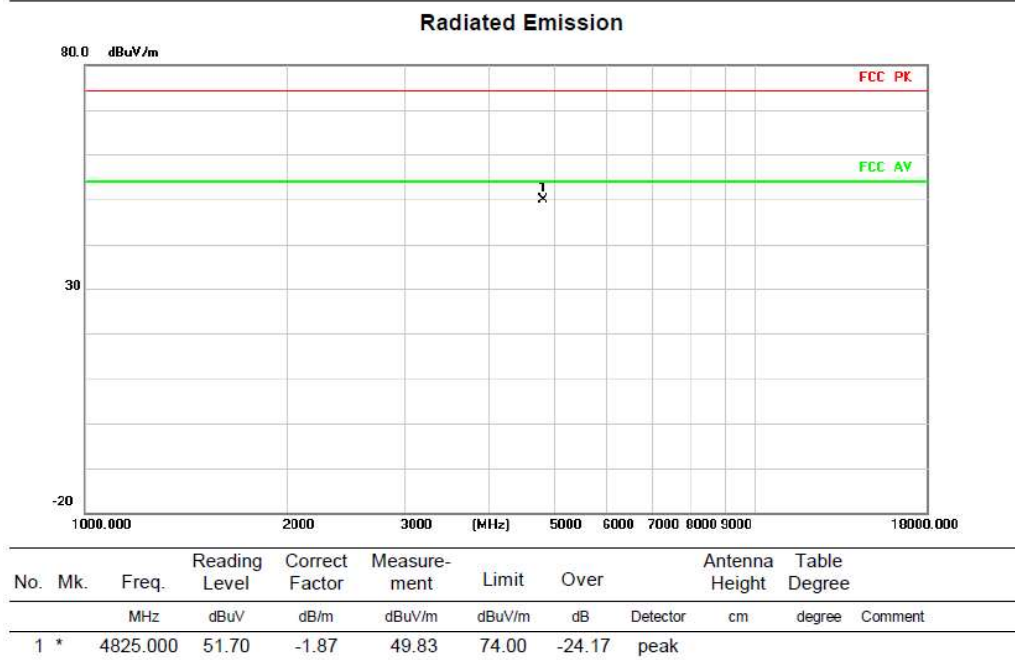
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2.4G 20MHz Channel-1: Horizontal



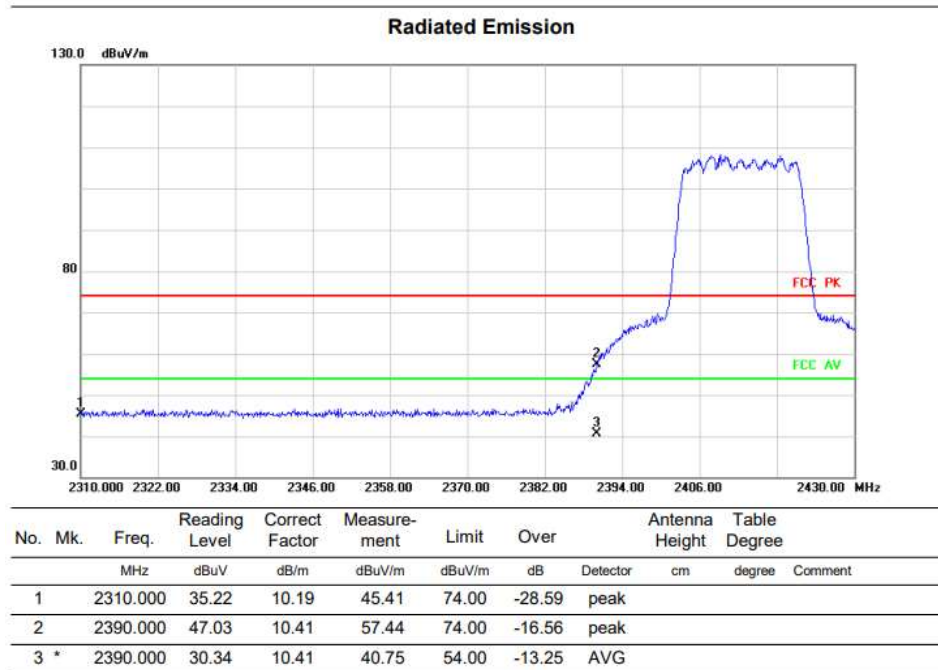
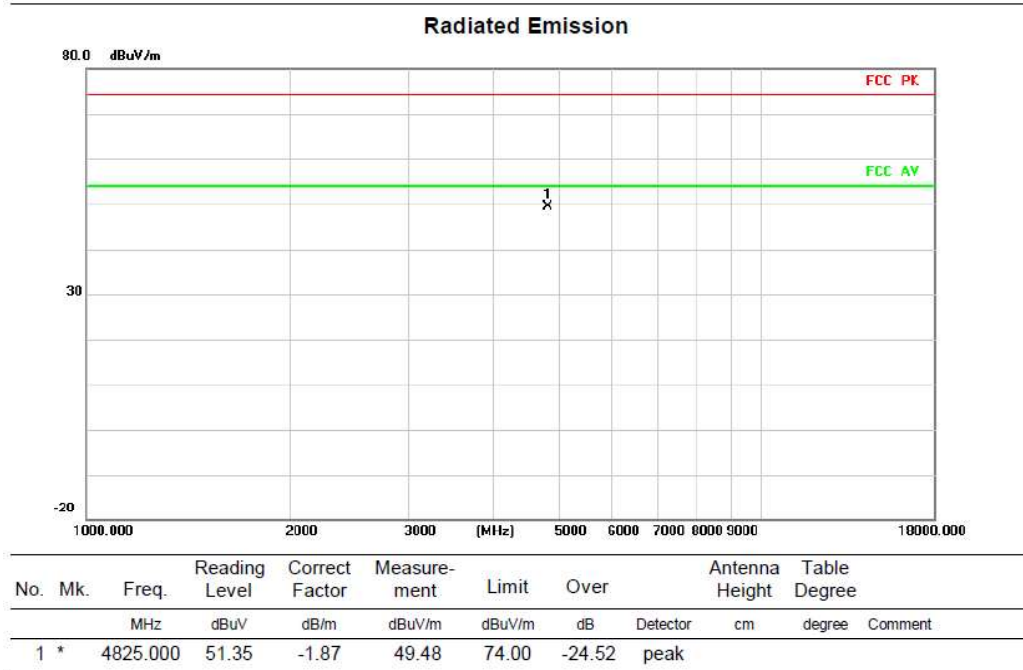
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2.4G 20MHz Channel-1: Vertical



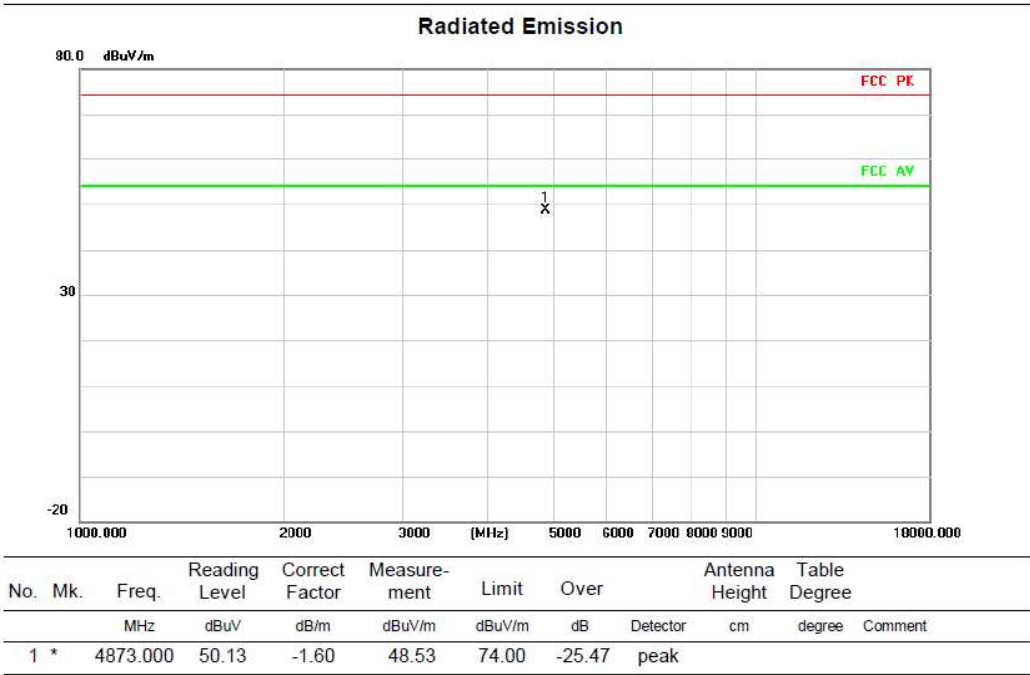
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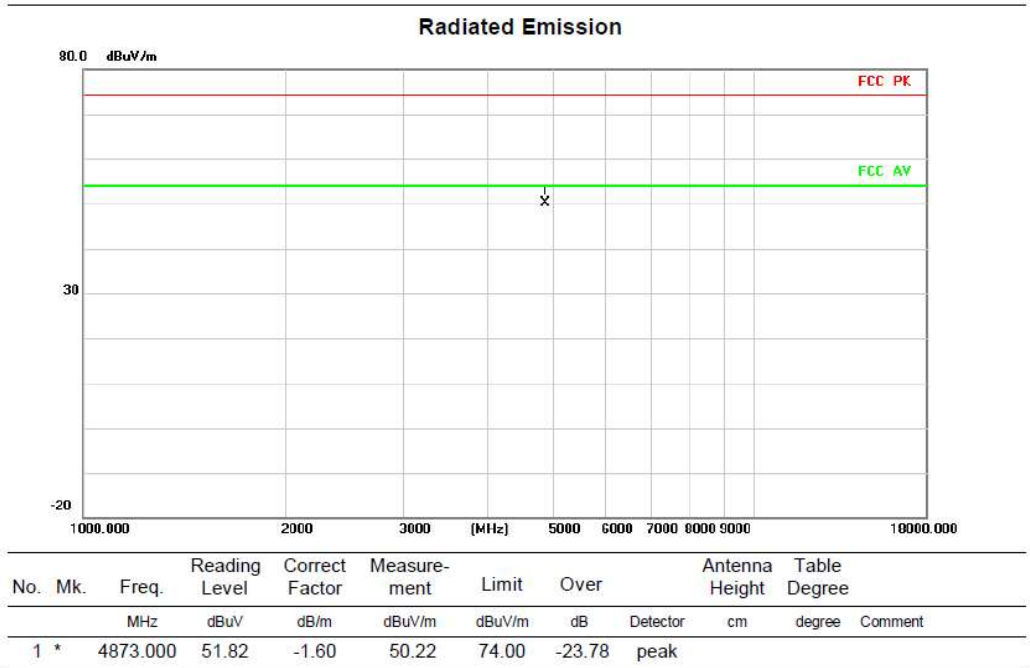
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



2.4G 20MHz Channel-25: Horizontal



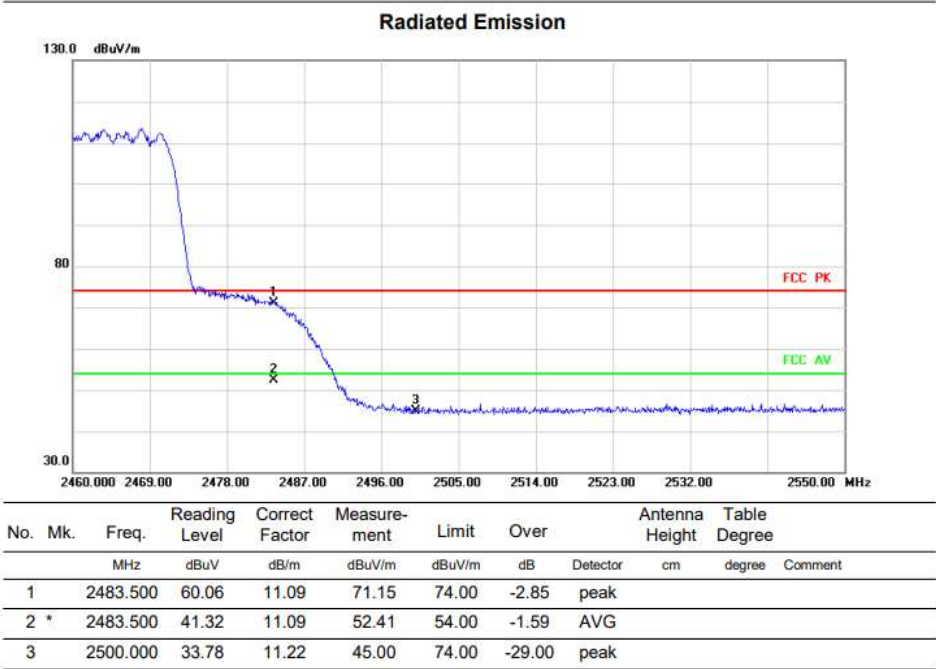
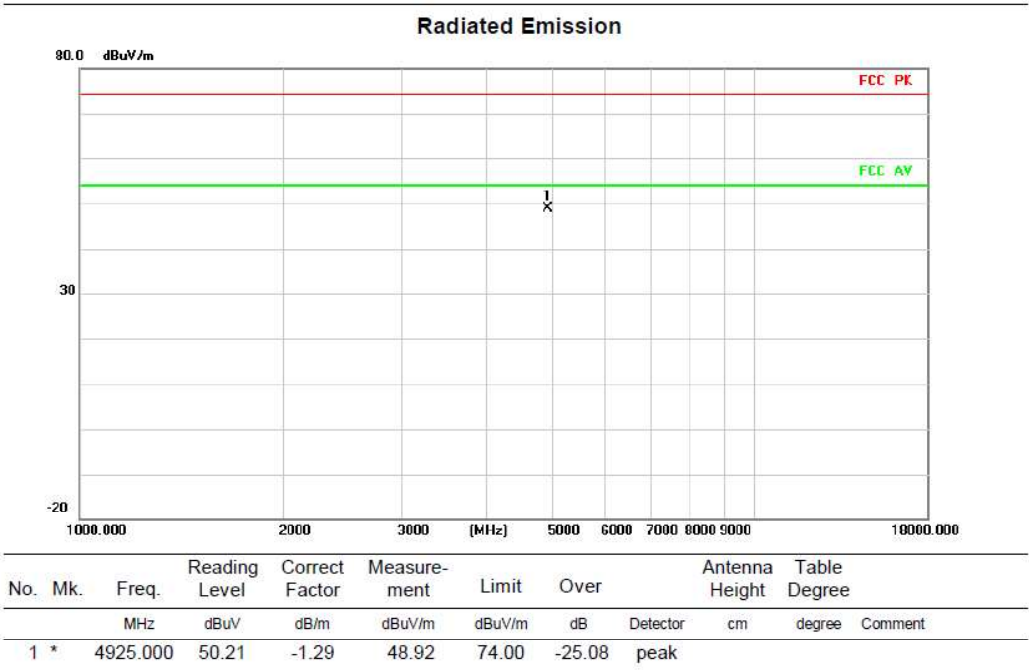
2.4G 20MHz Channel-25: Vertical



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2.4G 20MHz Channel-51: Horizontal



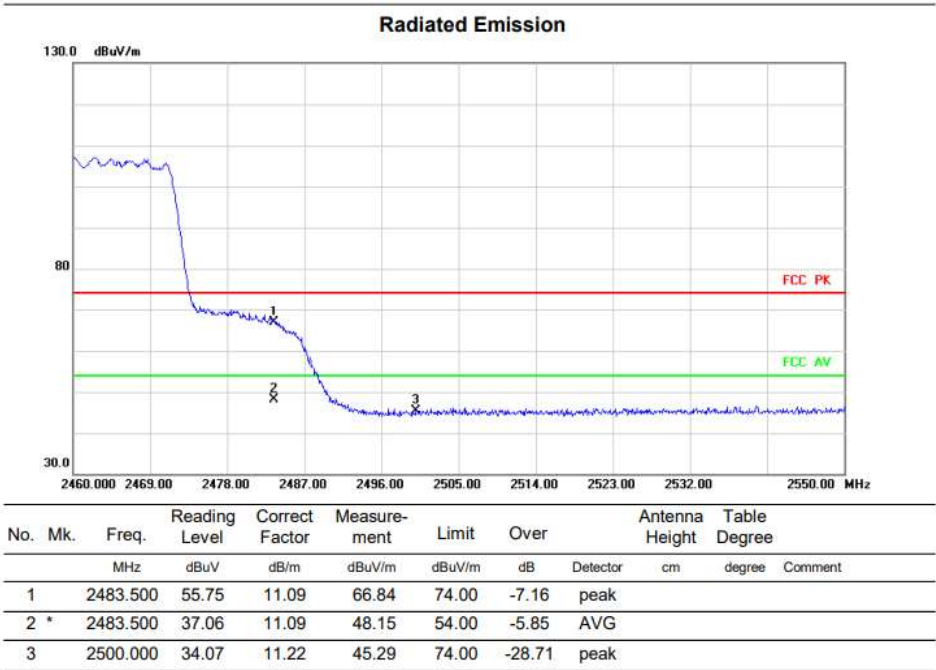
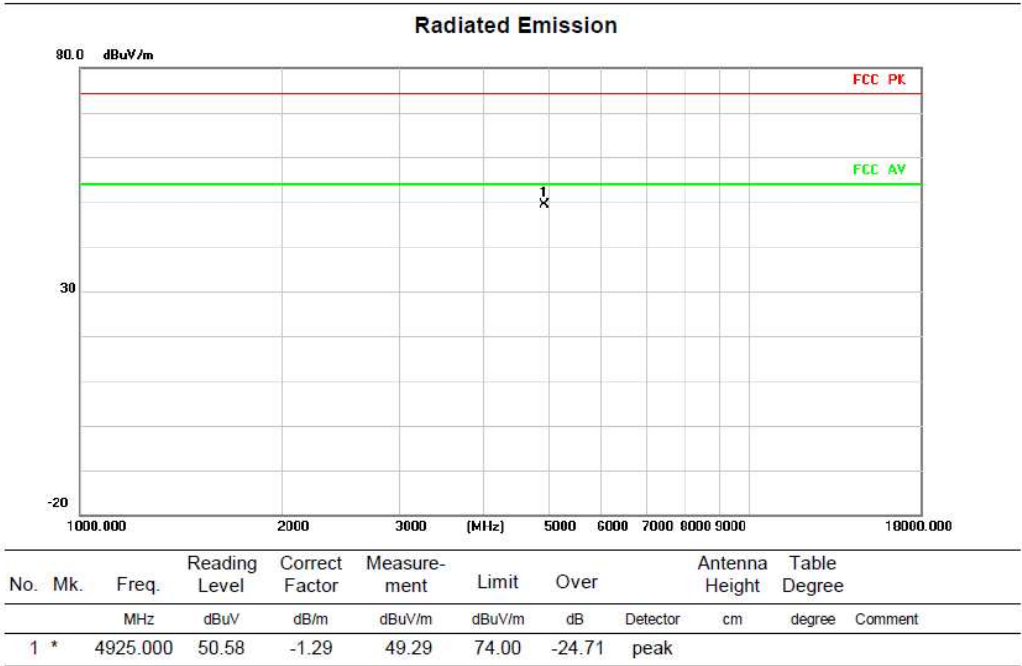
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2.4G 20MHz Channel-65: Vertical



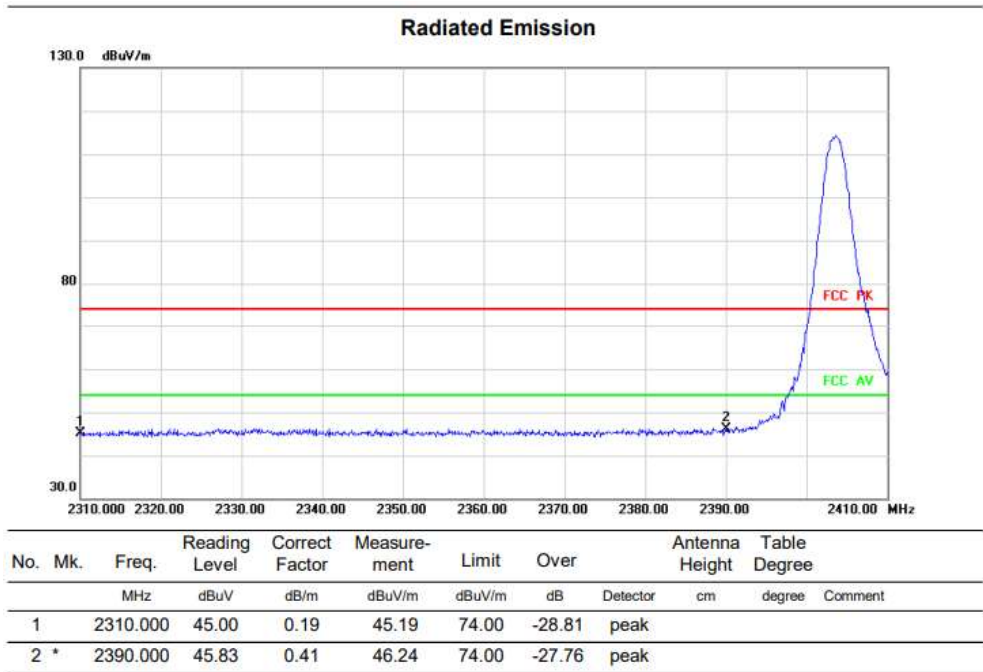
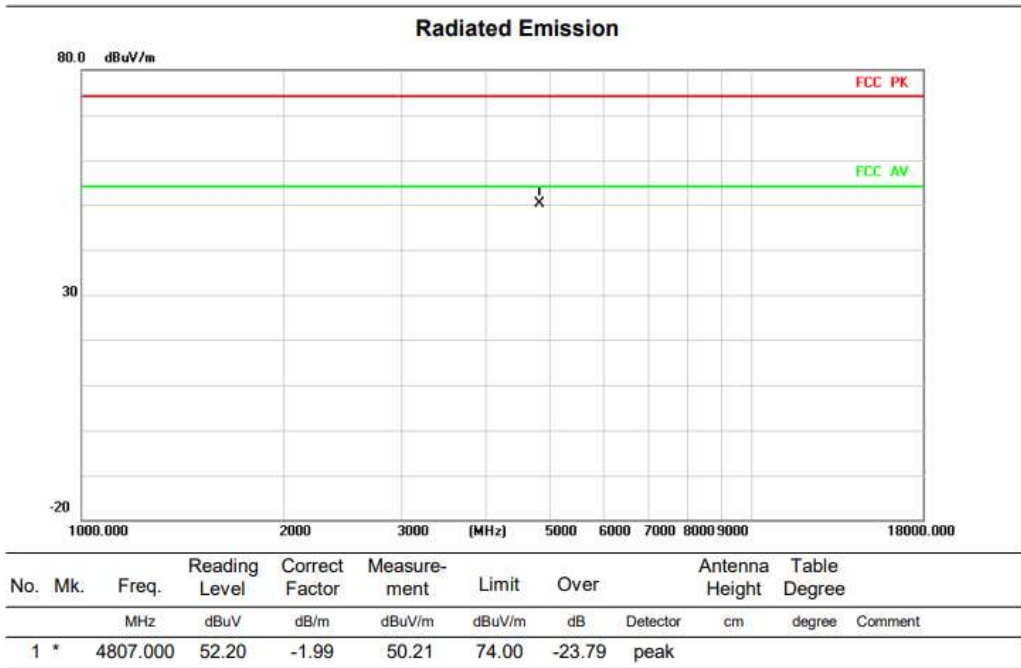
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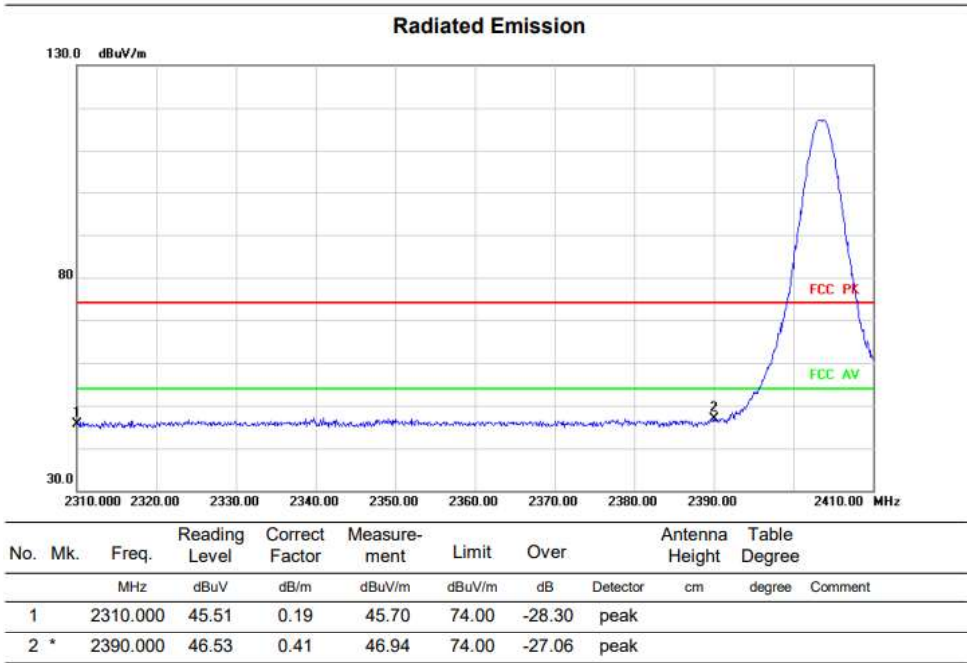
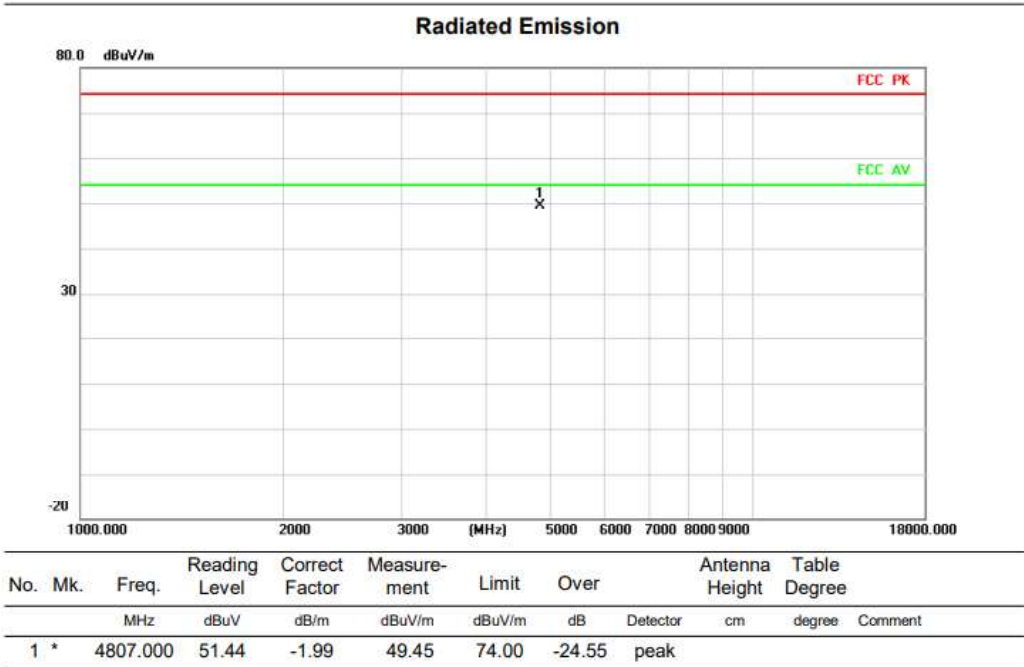
For PCB antenna
2.4G 1.4MHz Channel-1: Horizontal



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2.4G 1.4MHz Channel-1: Vertical



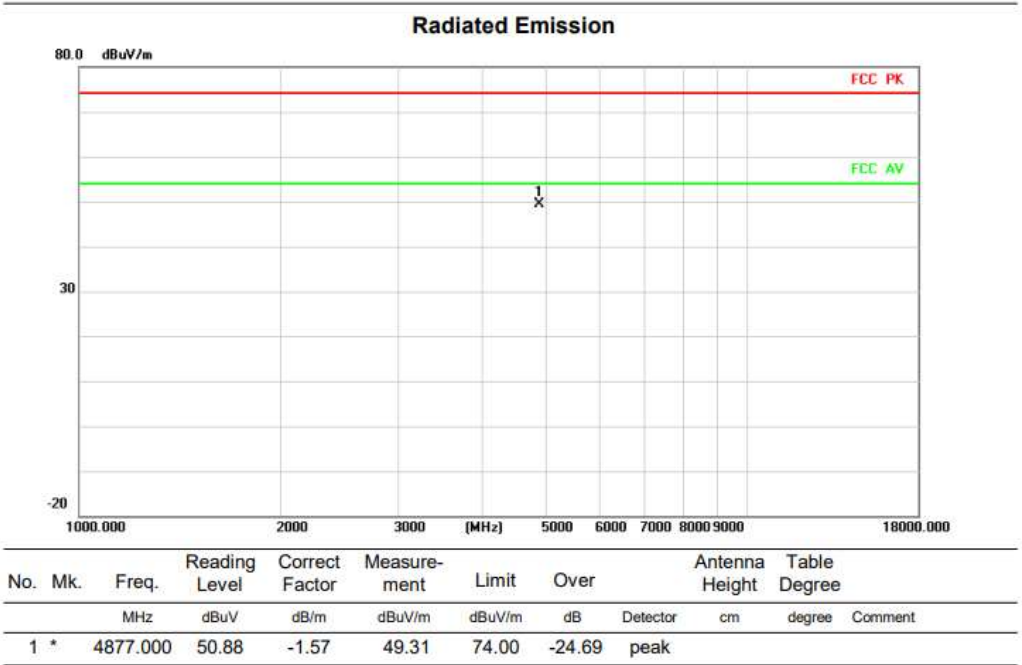
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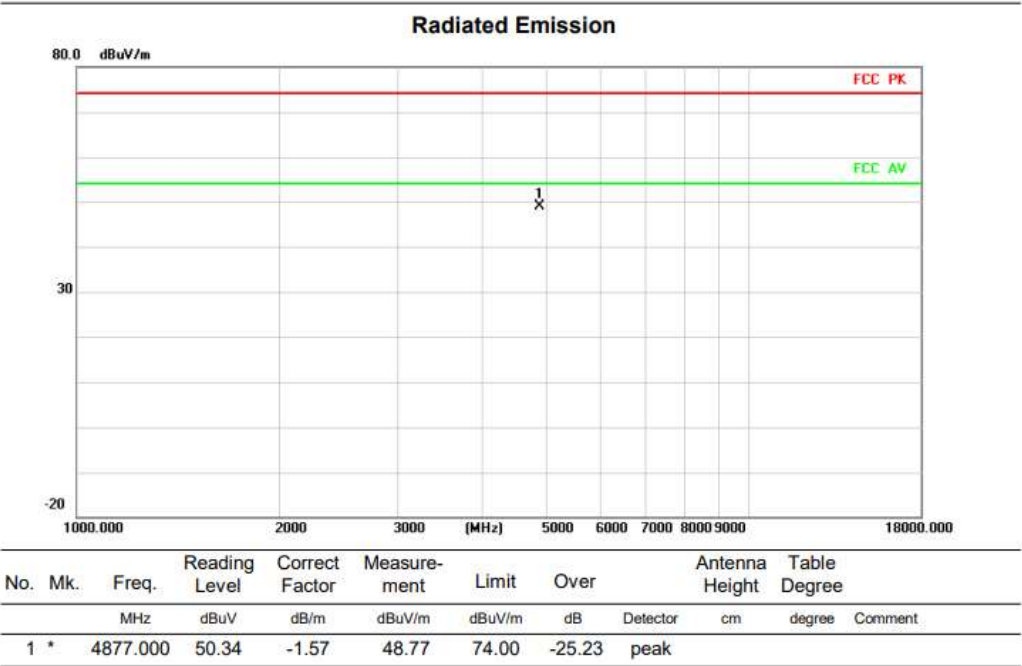
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2.4G 1.4MHz Channel-35: Horizontal



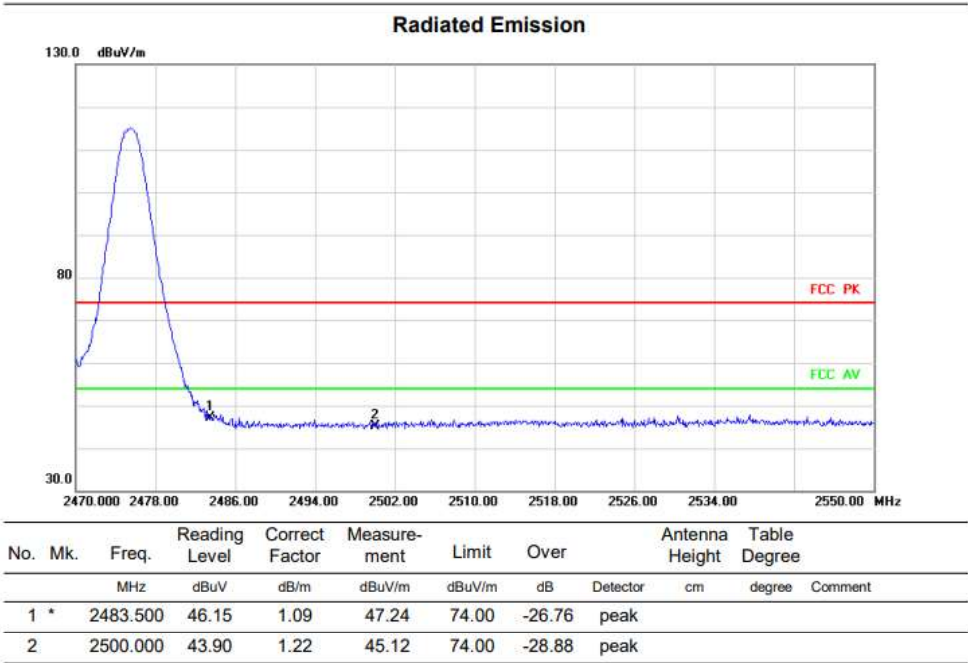
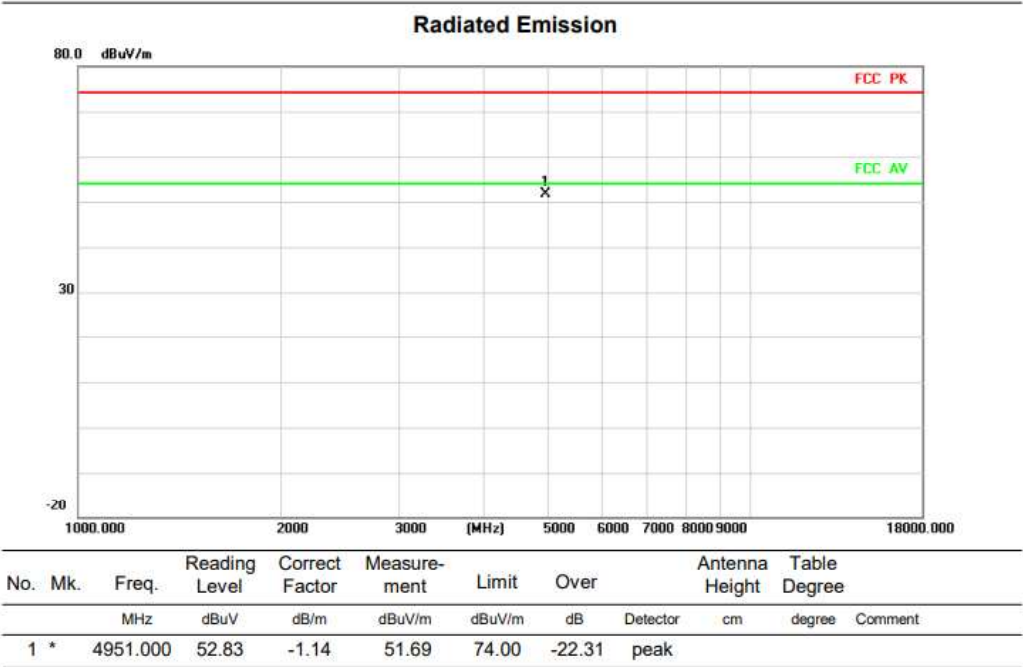
2.4G 1.4MHz Channel-35: Vertical



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2.4G 1.4MHz Channel-73: Horizontal



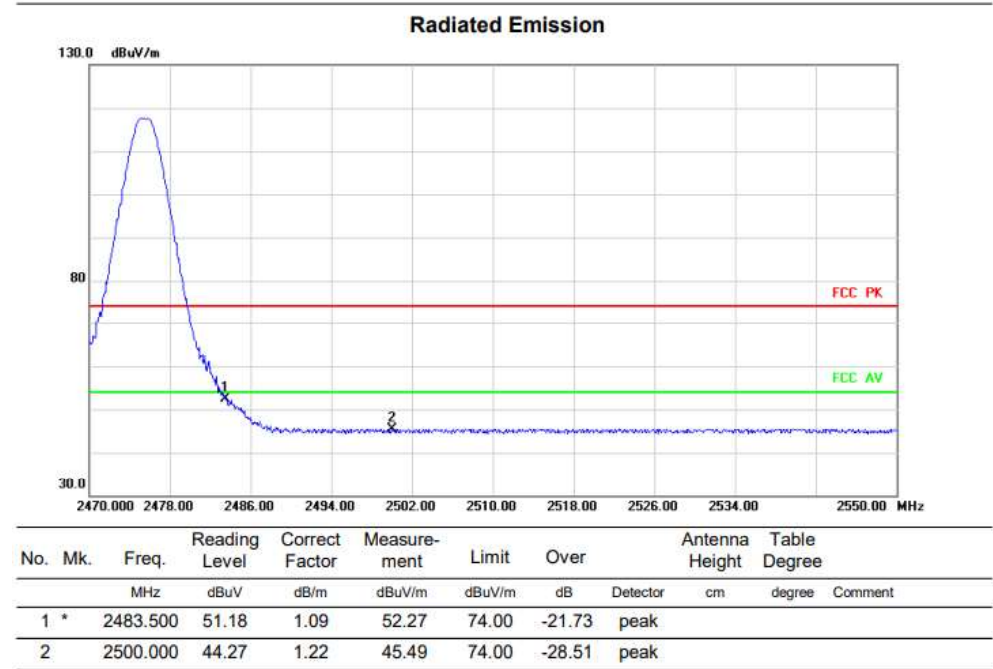
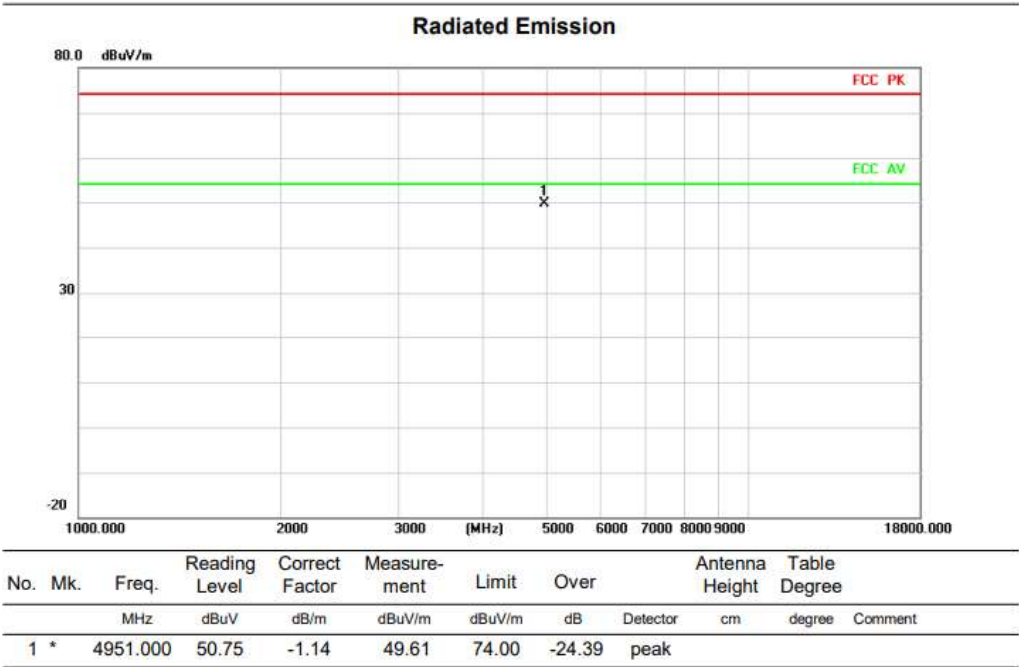
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2.4G 1.4MHz Channel-73: Vertical



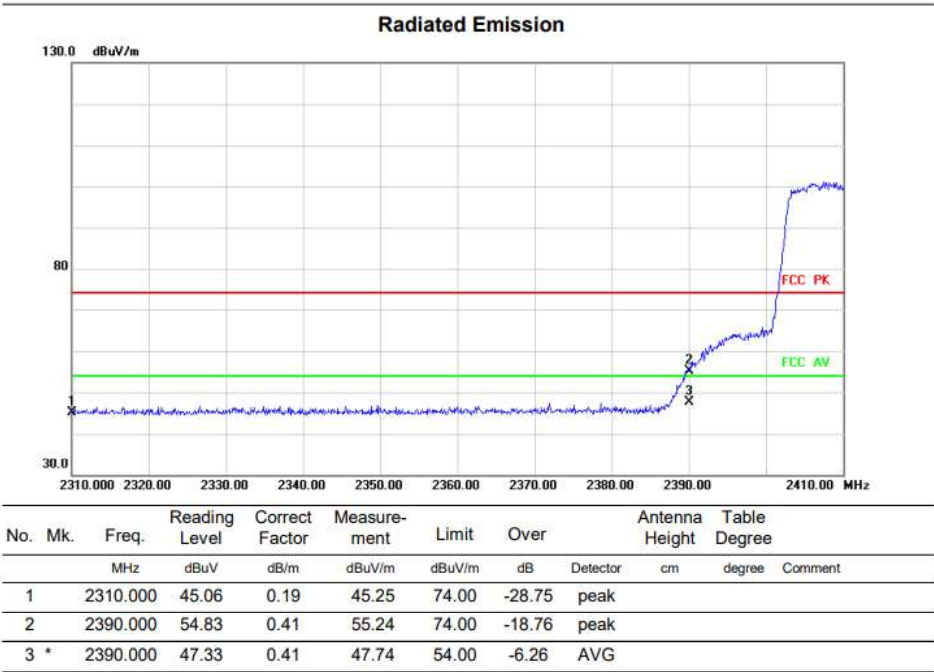
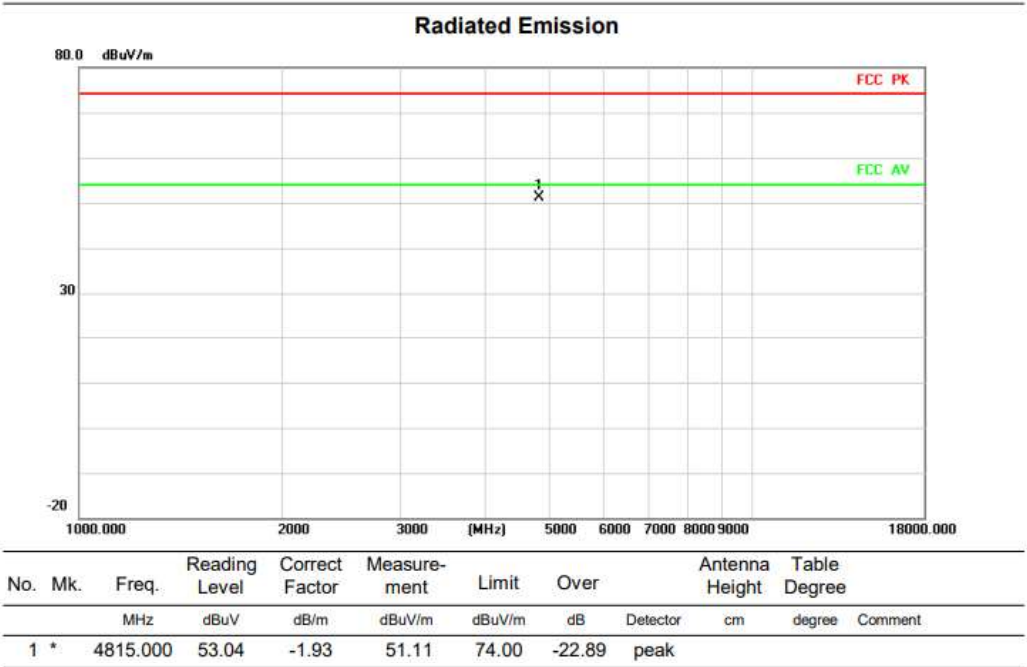
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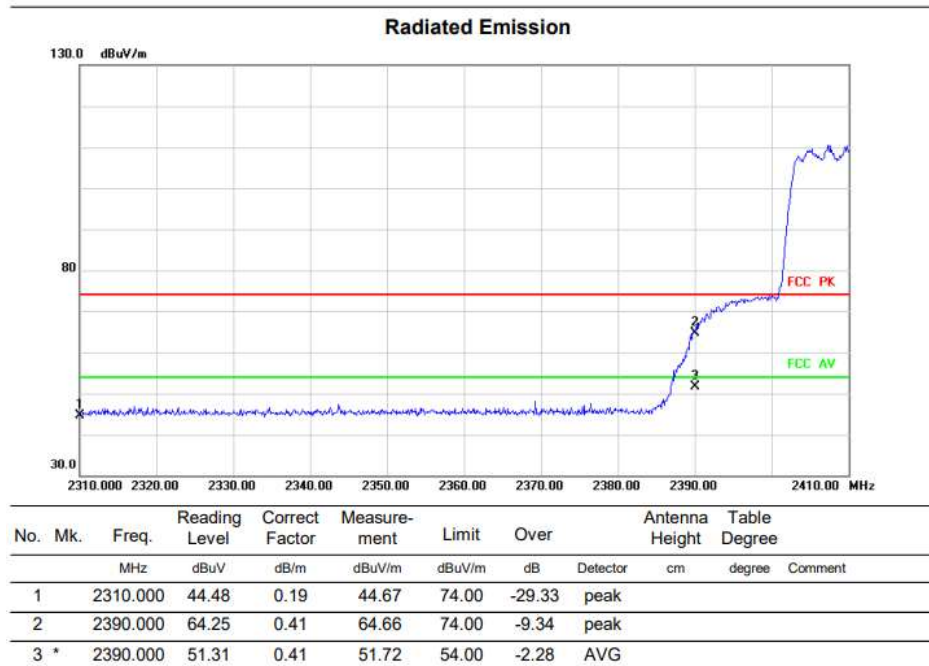
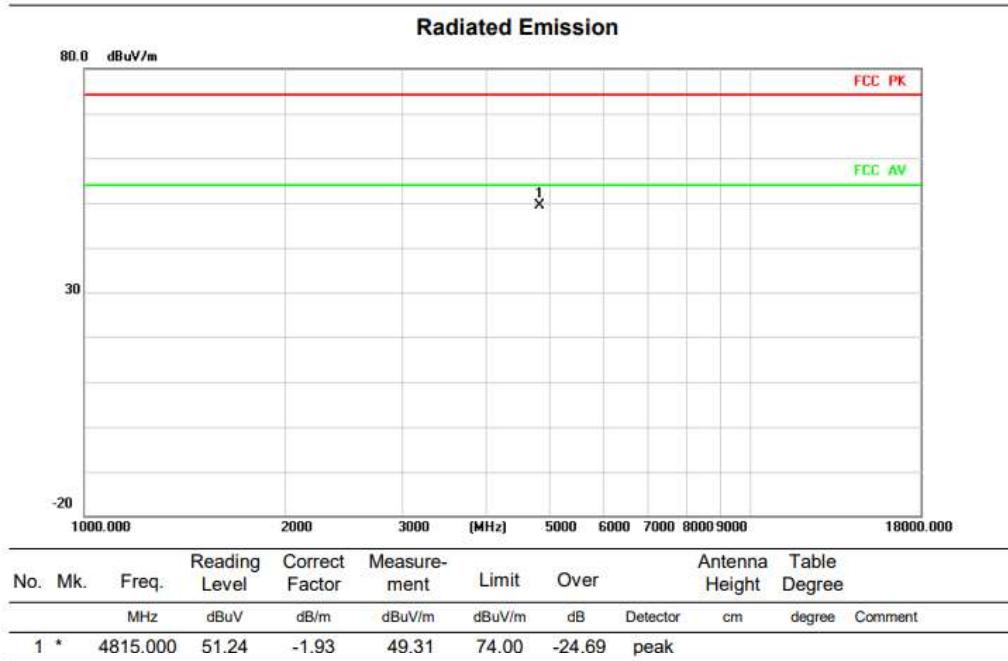
2.4G 10MHz Channel-1: Horizontal



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2.4G 10MHz Channel-1: Vertical



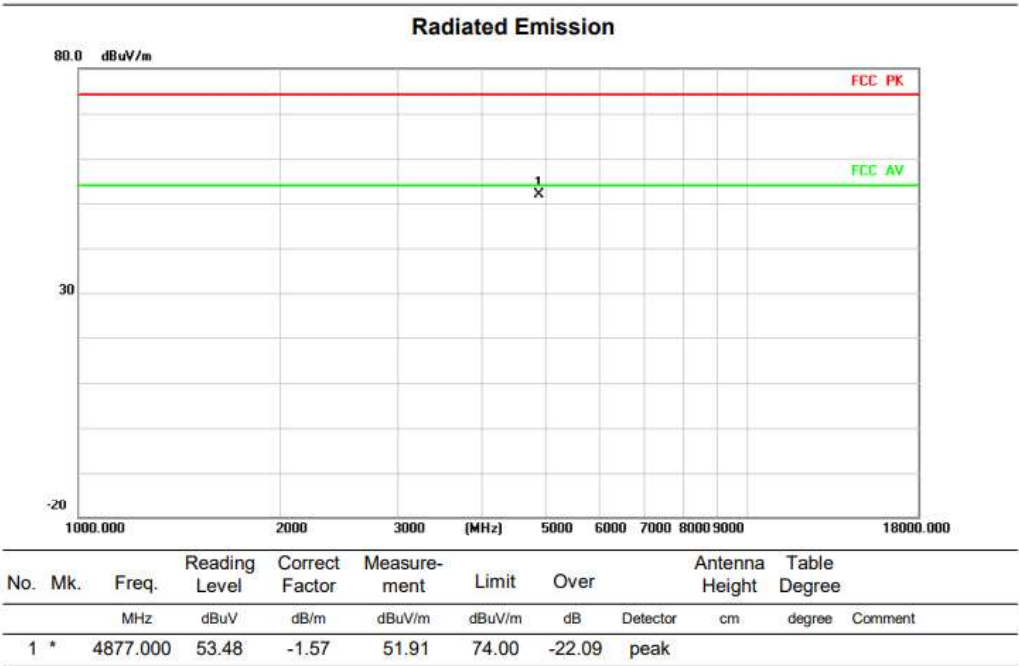
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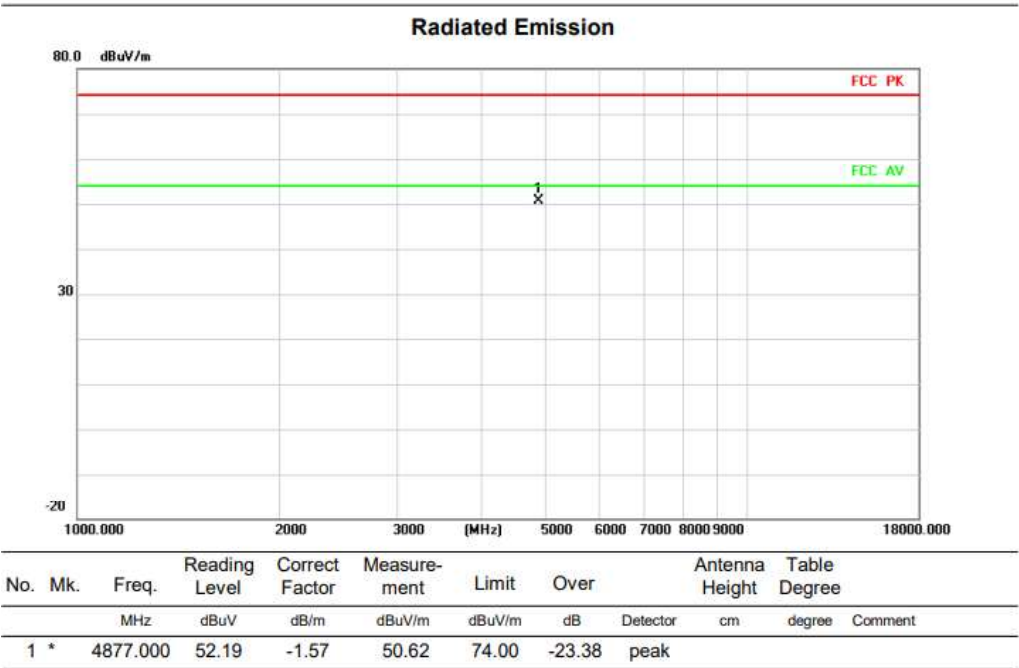
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2.4G 10MHz Channel-32: Horizontal



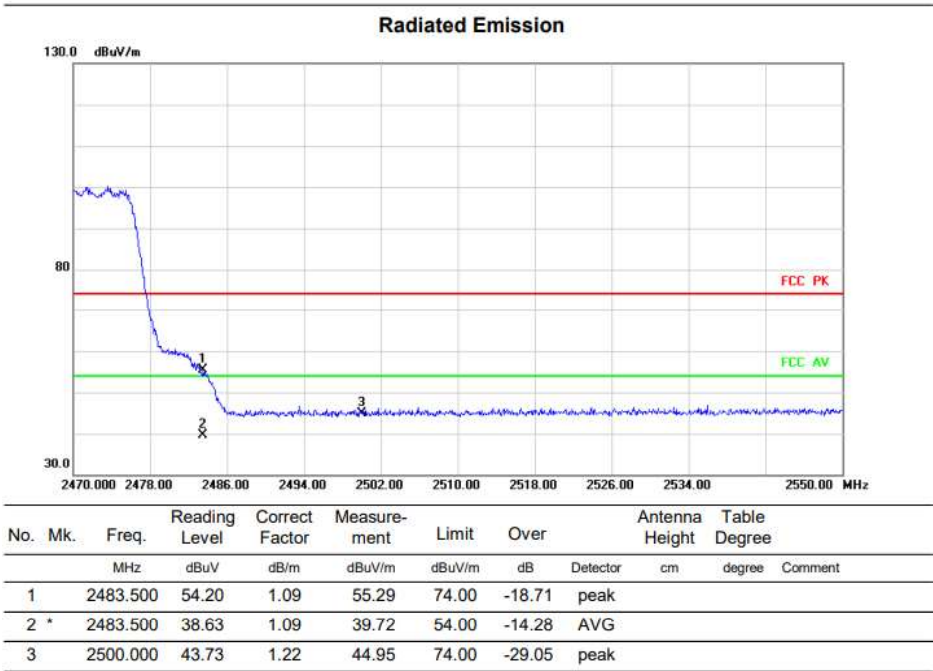
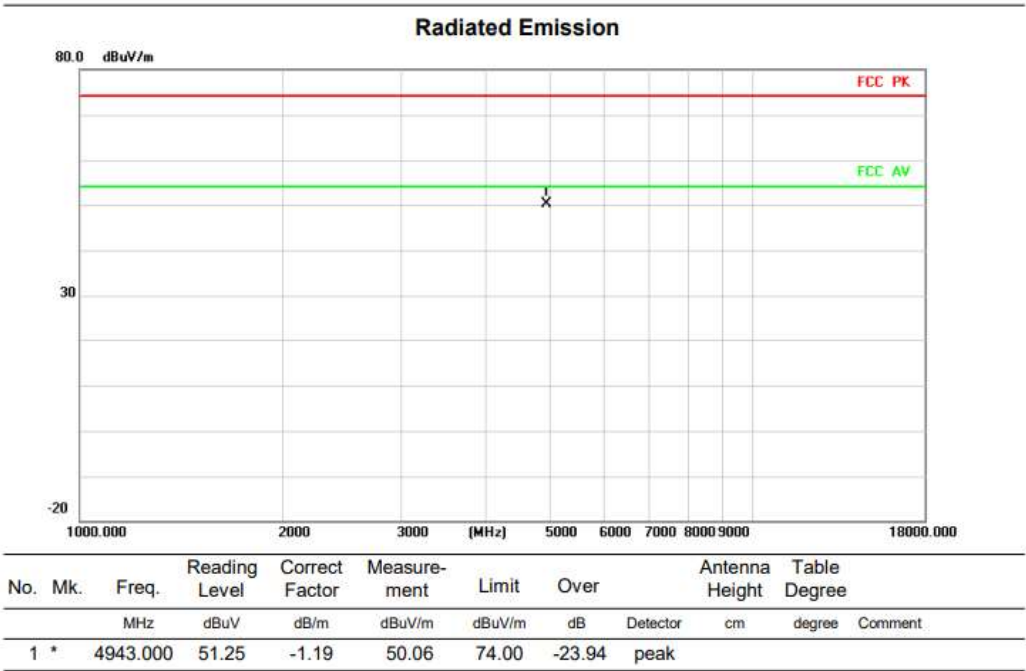
2.4G 10MHz Channel-32: Vertical



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2.4G 10MHz Channel-65: Horizontal



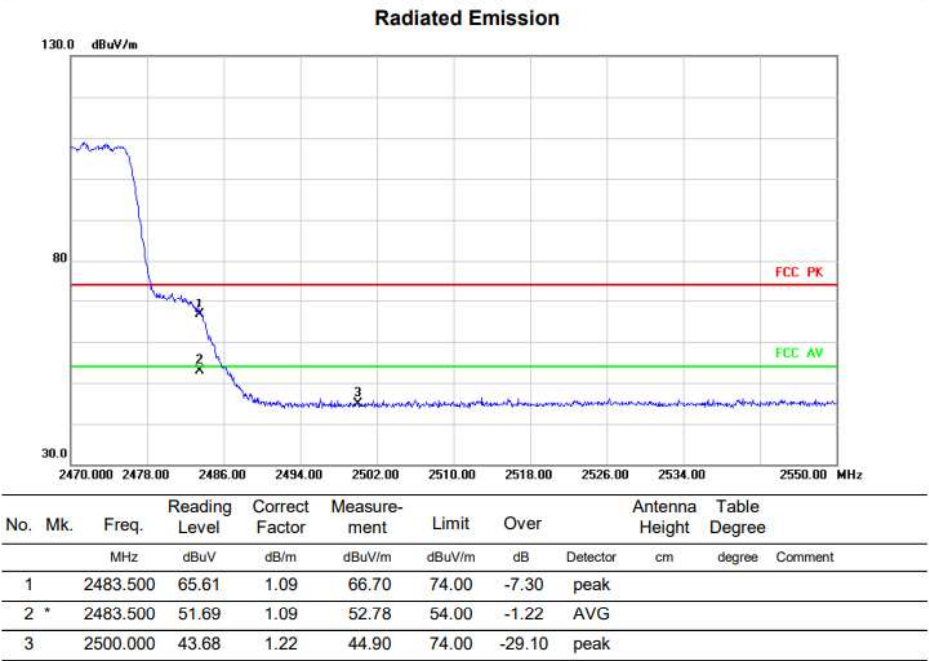
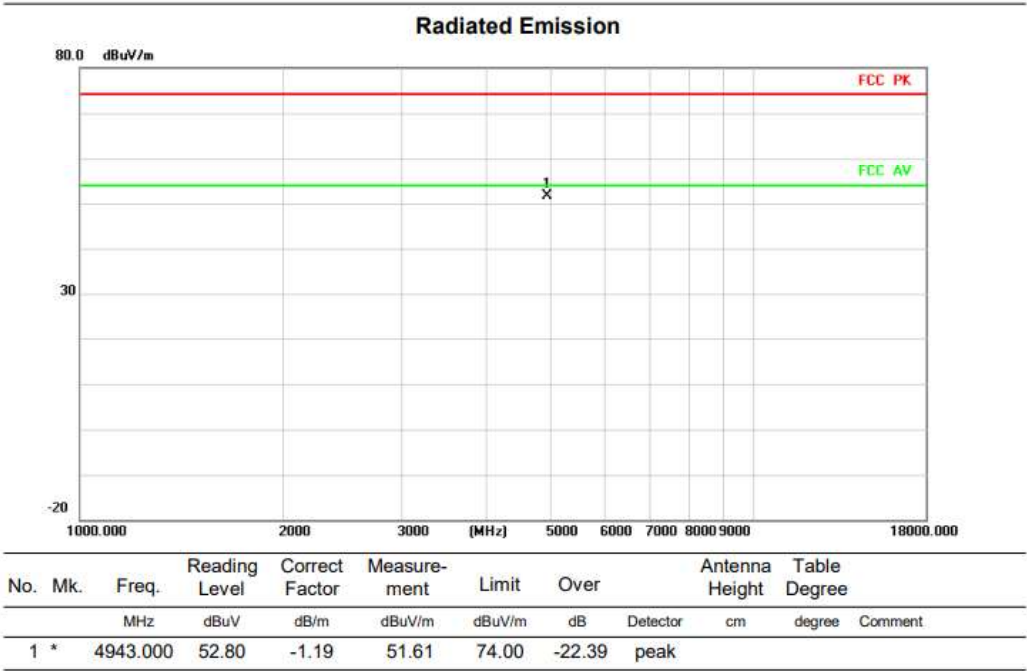
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2.4G 10MHz Channel-65: Vertical



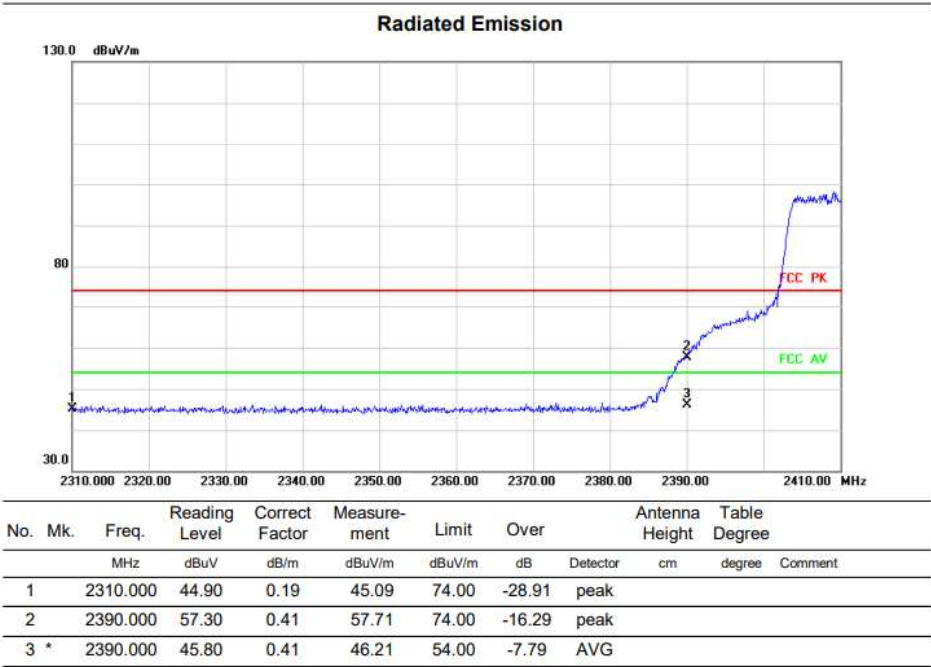
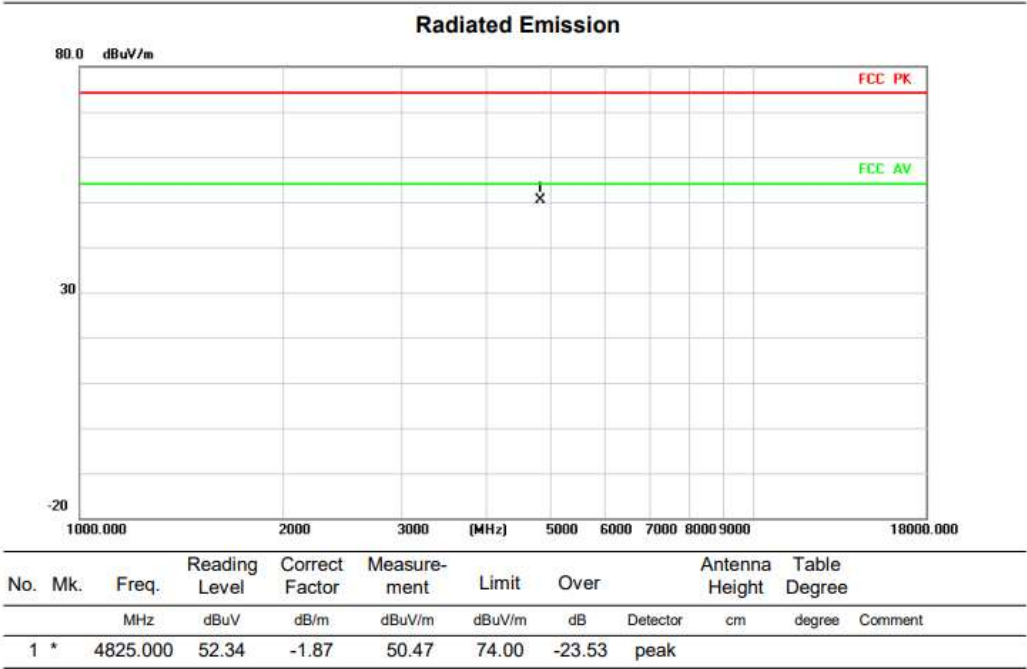
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2.4G 20MHz Channel-1: Horizontal



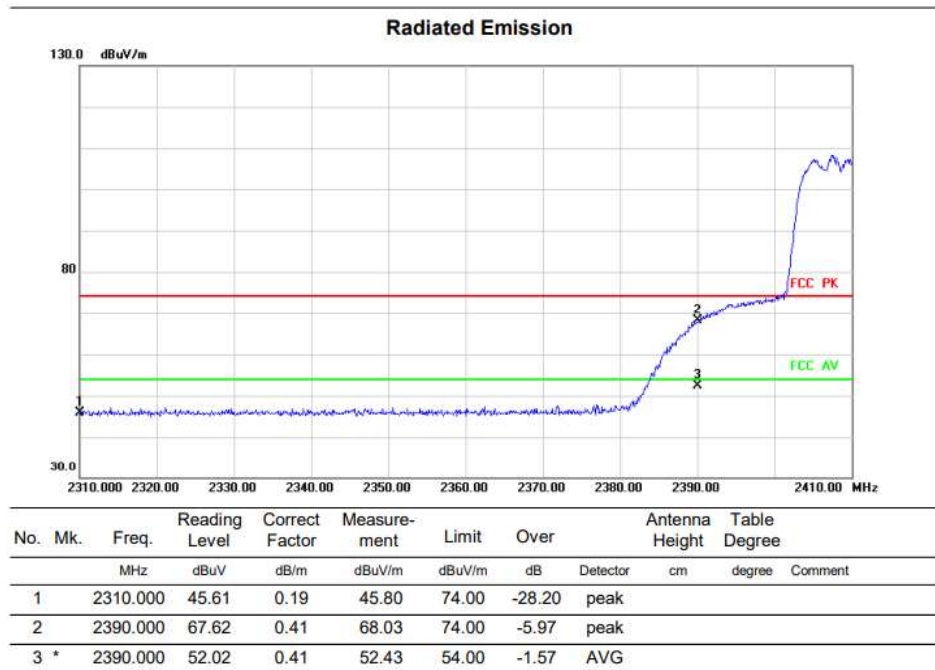
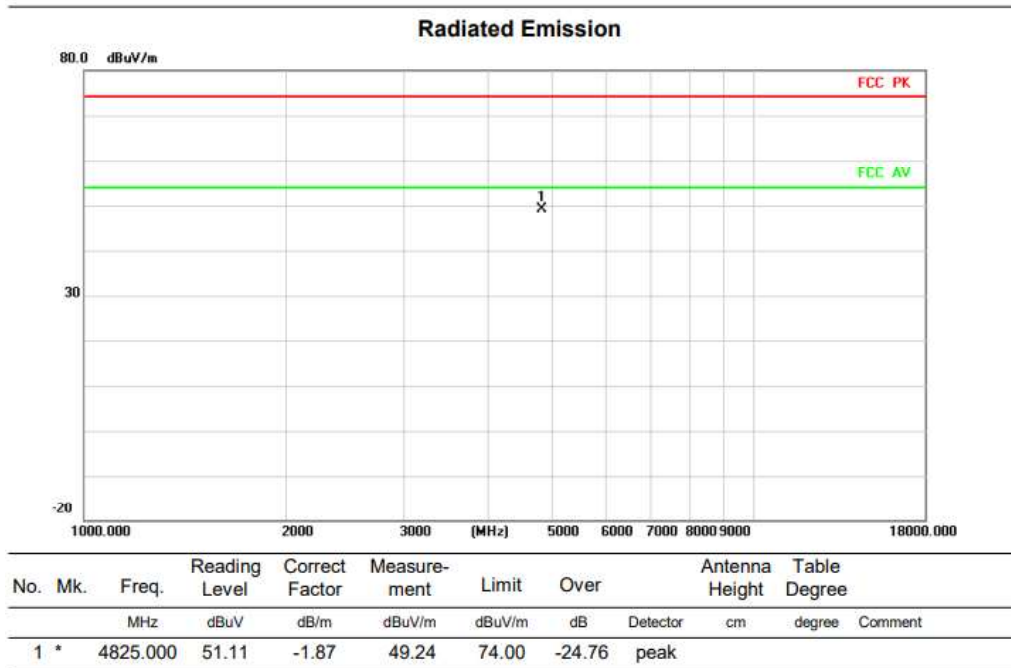
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2.4G 20MHz Channel-1: Vertical



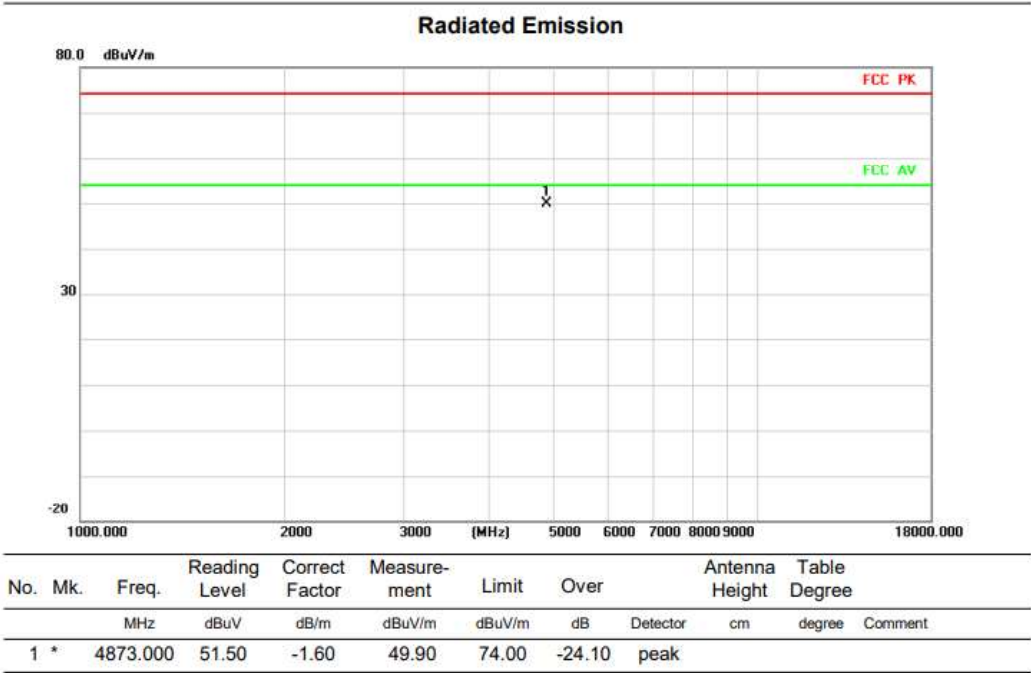
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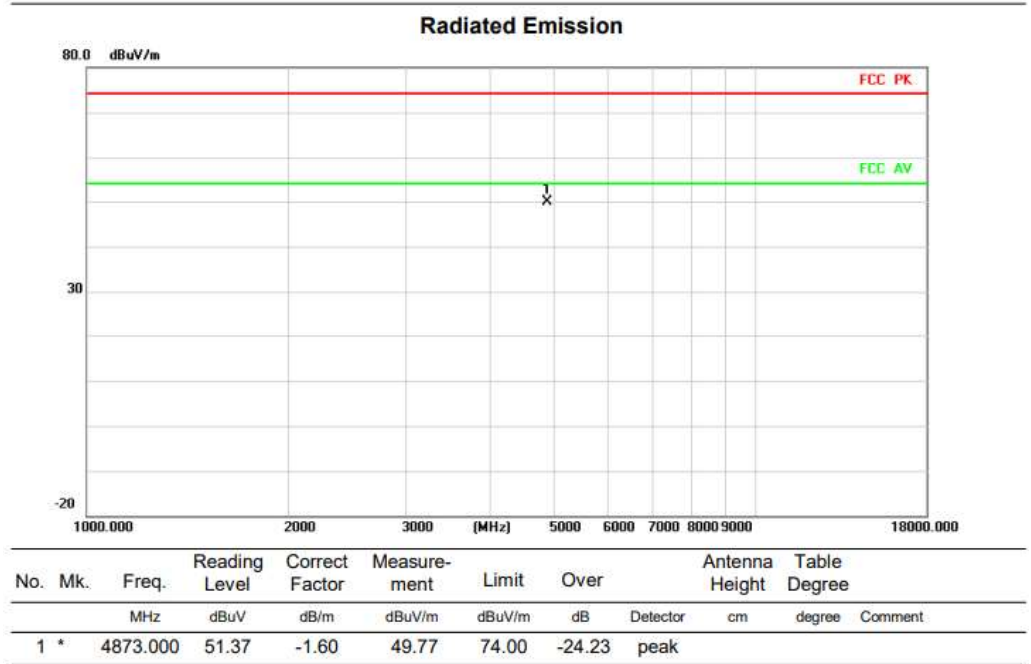
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2.4G 20MHz Channel-25: Horizontal



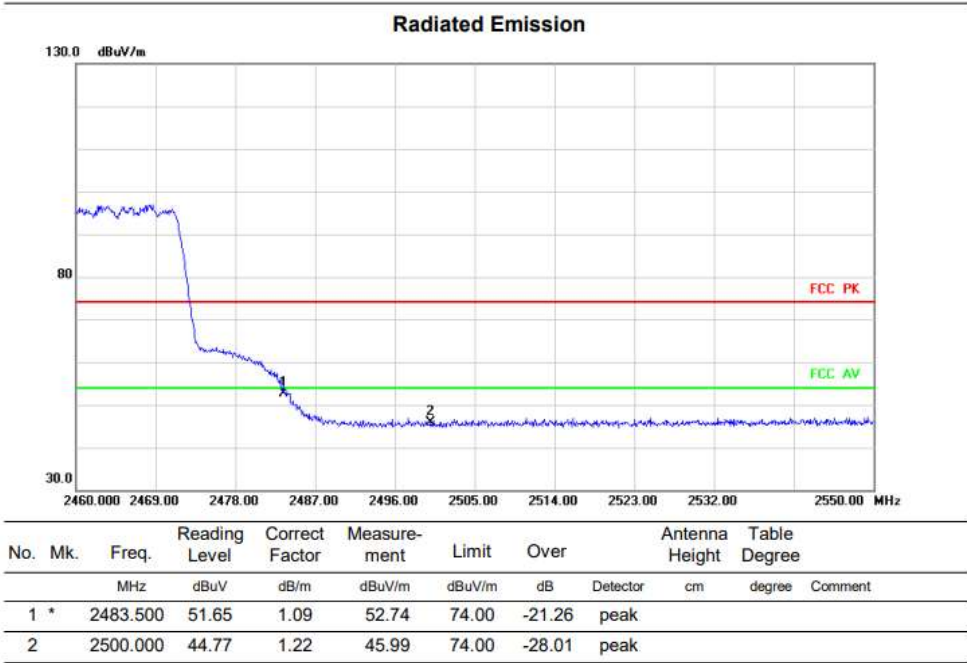
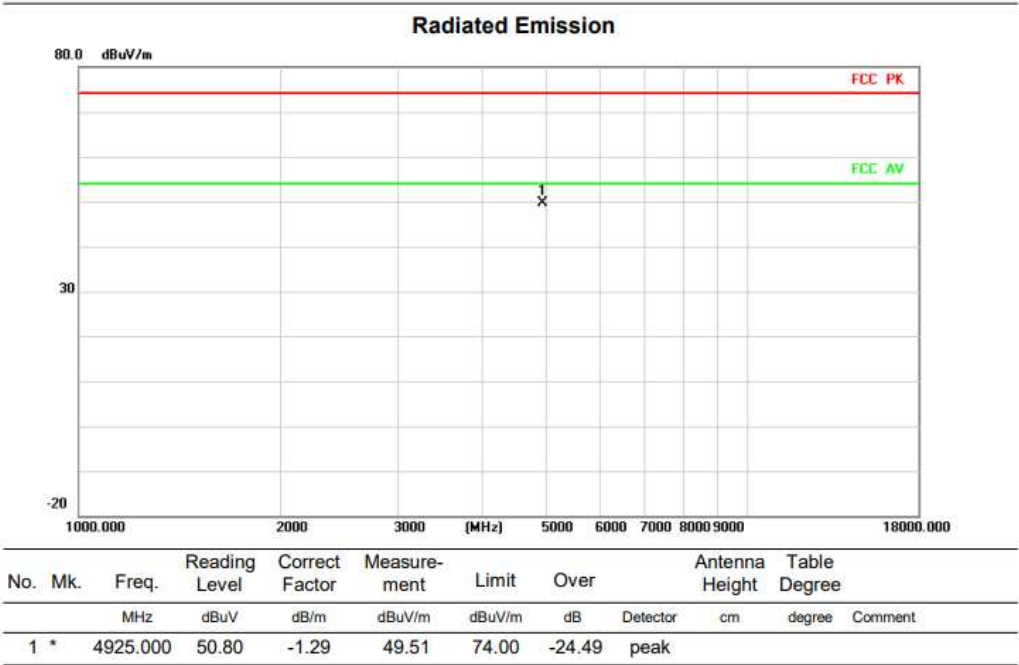
2.4G 20MHz Channel-25: Vertical



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2.4G 20MHz Channel-51: Horizontal



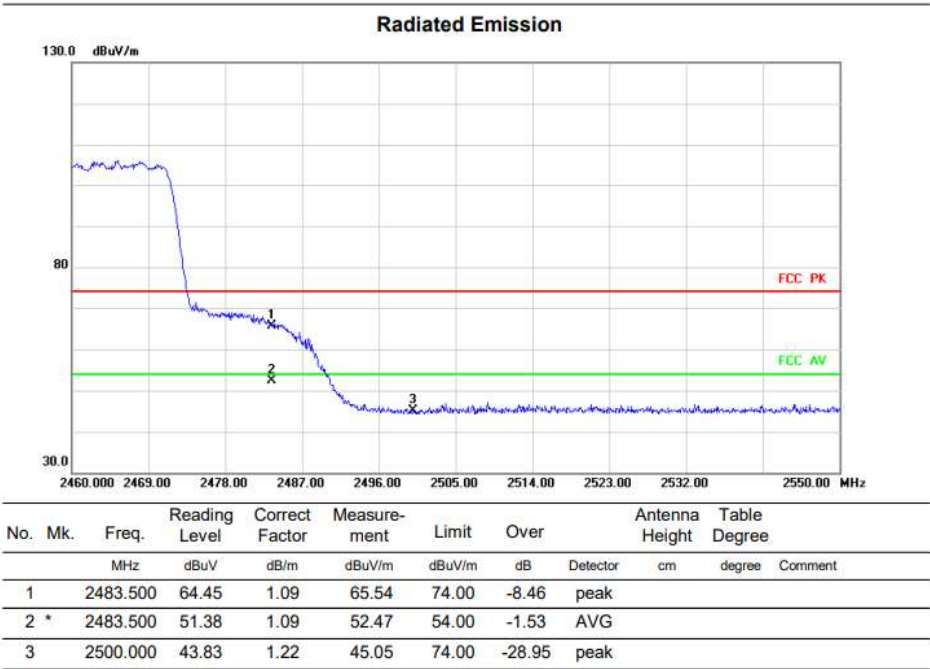
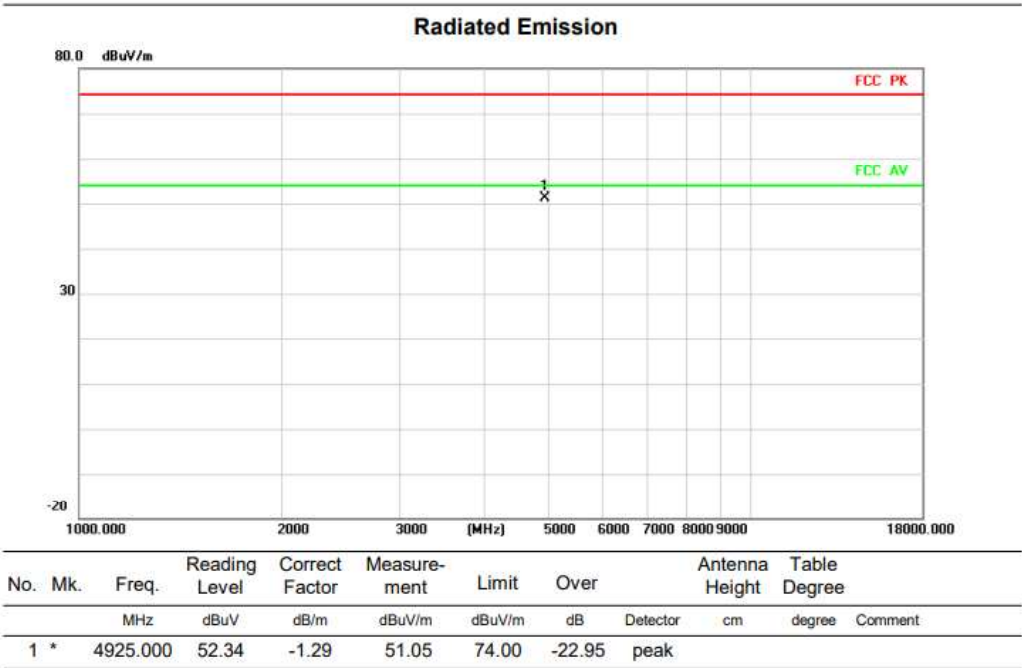
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2.4G 20MHz Channel-65: Vertical



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Note: 1. Measurement = Reading + Correct Factor

2. Factor= AF + Cable Loss- Preamp

3. Over = Measurement – Limit

4. For radiated Emissions from 18-25GHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

5. The final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

6. A 2.4G band-pass filter was used the radiated emissions test.

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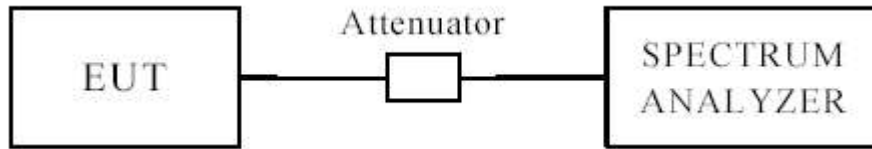
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

6dB Occupied Bandwidth

2.4G wifi

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.072	≥ 0.5	Pass
		2437	1	9.058	≥ 0.5	Pass
		2462	1	8.602	≥ 0.5	Pass
802.11g	SISO	2412	1	15.227	≥ 0.5	Pass
		2437	1	15.227	≥ 0.5	Pass
		2462	1	15.213	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.226	≥ 0.5	Pass
		2437	1	15.229	≥ 0.5	Pass
		2462	1	15.211	≥ 0.5	Pass

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900M transfer image

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
QPSK 1.4MHz	MIMO	904	1	1.125	≥ 0.5	Pass
		915	1	1.124	≥ 0.5	Pass
		926	1	1.128	≥ 0.5	Pass
16QAM 1.4MHz	MIMO	904	1	1.125	≥ 0.5	Pass
		915	1	1.125	≥ 0.5	Pass
		926	1	1.127	≥ 0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
QPSK 10MHz	MIMO	909	1	9.028	≥ 0.5	Pass
		915	1	9.025	≥ 0.5	Pass
		921	1	9.030	≥ 0.5	Pass
16QAM 10MHz	MIMO	909	1	9.027	≥ 0.5	Pass
		915	1	9.026	≥ 0.5	Pass
		921	1	9.031	≥ 0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
QPSK 20MHz	MIMO	914	1	18.042	≥ 0.5	Pass
		915	1	18.042	≥ 0.5	Pass
		916	1	18.047	≥ 0.5	Pass
16QAM 20MHz	MIMO	914	1	18.038	≥ 0.5	Pass
		915	1	18.036	≥ 0.5	Pass
		916	1	18.043	≥ 0.5	Pass

Note: All antenna were tested, and only the worst cases were reported in the test report and external ant1 was the worst case.

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