

$$Pd(\text{dBm})=Pg(\text{dBm})-\text{cable loss}(\text{dB})+\text{antenna gain}(\text{dB})$$

Where:

Pd is the dipole equivalent power and Pg is the generator output power into the substitution antenna.

NOTE: It is permissible to use other antennas provided they can be referenced to a dipole.

NOTE: Effective radiated power(e.r.p) refers to the radiation of a half wave tuned dipole instead of and isotropic antenna. There is a constant difference of 2.15 dB between e.i.r.p and e.r.p.

$$e.r.p.(\text{dBm})=e.i.r.p(\text{dB})-2.15$$

## 6.8.4 Test Results

### 6.8.4.1 700MHz Band

(1) Input Power: AC 120V, 50/60Hz

Vertical		Limit(dBm)	Margin(dB)	Result
Test Frequency (MHz)	Measuring level (dBm)			
Frequency range: 30MHz to 1GHz				
33.5684	-51.25	≤-13dBm	-38.25	pass
48.9153	-44.08		-31.08	pass
86.7716	-53.00		-40.00	pass
127.8713	-57.80		-44.80	pass
384.6920	-59.59		-46.59	pass
929.5512	-56.32		-43.32	pass
Frequency range: 1GHz to 6GHz				
2477.786	-46.97	≤-13dBm	-33.97	pass
2542.653	-47.09		-34.09	pass
3264.220	-47.42		-34.42	pass
3672.044	-47.67		-34.67	pass
5457.566	-47.30		-34.30	pass
5830.165	-47.92		-34.92	pass
Note: Sweep all the modulation types emissions in 700MHz Band , find the worse case to report it.				

Horizontal		Limit(dBm)	Margin(dB)	Result
Test Frequency (MHz)	Measuring level (dBm)			
Frequency range: 30MHz to 1GHz				
44.2096	-54.76	$\leq -13\text{dBm}$	-41.76	pass
45.7255	-54.78		-41.78	pass
66.2571	-60.08		-47.08	pass
85.8019	-60.18		-47.18	pass
384.6920	-59.71		-46.71	pass
919.1625	-57.33		-44.33	pass
Frequency range: 1GHz to 6GHz				
2442.466	-47.53	$\leq -13\text{dBm}$	-34.53	pass
2827.662	-47.16		-34.16	pass
4060.263	-46.45		-33.45	pass
4263.378	-46.82		-33.82	pass
5079.525	-46.90		-33.90	pass
5318.335	-46.93		-33.93	pass
Note: Sweep all the modulation types emissions in 700MHz Band , find the worse case to report it.				

## (2) Input Power: DC -48V

Vertical		Limit(dBm)	Margin(dB)	Result
Test Frequency (MHz)	Measuring level (dBm)			
Frequency range: 30MHz to 1GHz				
48.0977	-43.47	$\leq -13\text{dBm}$	-30.47	pass
66.2571	-52.28		-39.28	pass
77.9844	-52.88		-39.88	pass
87.2605	-53.97		-40.97	pass
384.6920	-59.66		-46.66	pass
919.1625	-56.70		-43.70	pass
Frequency range: 1GHz to 6GHz				
2319.434	-47.63	$\leq -13\text{dBm}$	-34.63	pass
2477.786	-47.75		-34.75	pass
2669.849	-47.70		-34.70	pass

4287.932	-47.42		-34.42	pass
5212.504	-47.87		-34.87	pass
5681.428	-47.86		-34.86	pass
Note: Sweep all the modulation types emissions in 700MHz Band , find the worse case to report it.				

Horizontal		Limit(dBm)	Margin(dB)	Result
Test Frequency (MHz)	Measuring level (dBm)			
Frequency range: 30MHz to 1GHz				
44.7092	-55.23	≤-13dBm	-42.23	pass
47.5600	-55.78		-42.78	pass
77.1128	-61.61		-48.61	pass
141.4823	-65.36		-52.36	pass
384.6920	-59.98		-46.98	pass
929.5512	-56.61		-43.61	pass
Frequency range: 1GHz to 6GHz				
2456.533	-47.53	≤-13dBm	-34.53	pass
2747.623	-47.94		-34.94	pass
3945.334	-47.18		-34.18	pass
4107.167	-46.63		-33.63	pass
5094.131	-46.10		-33.10	pass
5395.241	-46.71		-33.71	pass
Note: Sweep all the modulation types emissions in 700MHz Band , find the worse case to report it.				

6.8.4.2 800MHz Band

(3) Input Power: AC 120V, 50/60Hz

Vertical		Limit(dBm)	Margin(dB)	Result
Test Frequency (MHz)	Measuring level (dBm)			
Frequency range: 30MHz to 1GHz				
44.2096	-40.82	≤-13dBm	-27.82	pass
47.0285	-40.01		-27.01	pass
64.4213	-46.08		-33.08	pass
77.5474	-47.15		-34.15	pass

384.6920	-57.17		-44.17	pass
908.8899	-56.67		-43.67	pass
Frequency range: 1GHz to 6GHz				
2572.025	-47.22	≤-13dBm	-34.22	pass
2803.408	-47.85		-34.85	pass
3934.022	-47.03		-34.03	pass
4095.390	-47.41		-34.41	pass
5123.470	-47.43		-34.43	pass
5395.241	-47.78		-34.78	pass
Note: Sweep all the modulation types emissions in 700MHz Band , find the worse case to report it.				

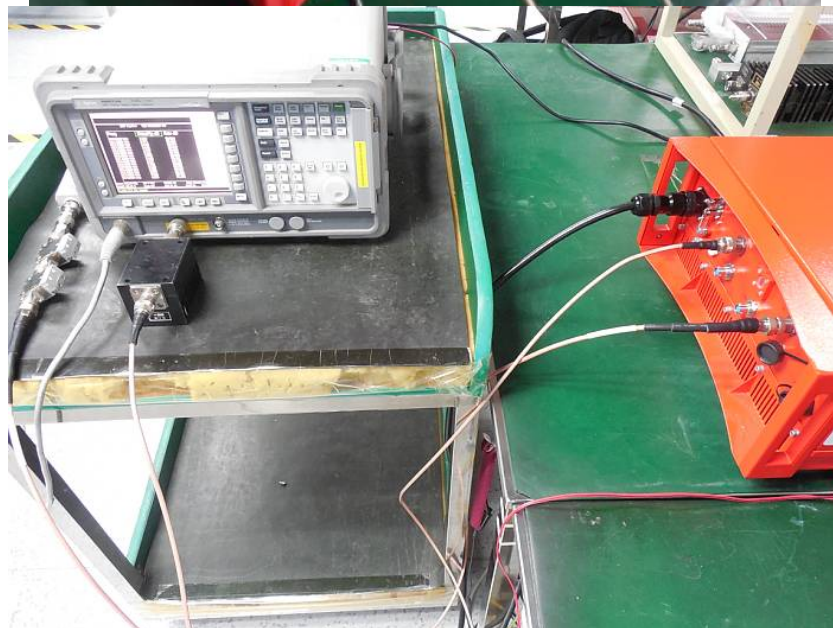
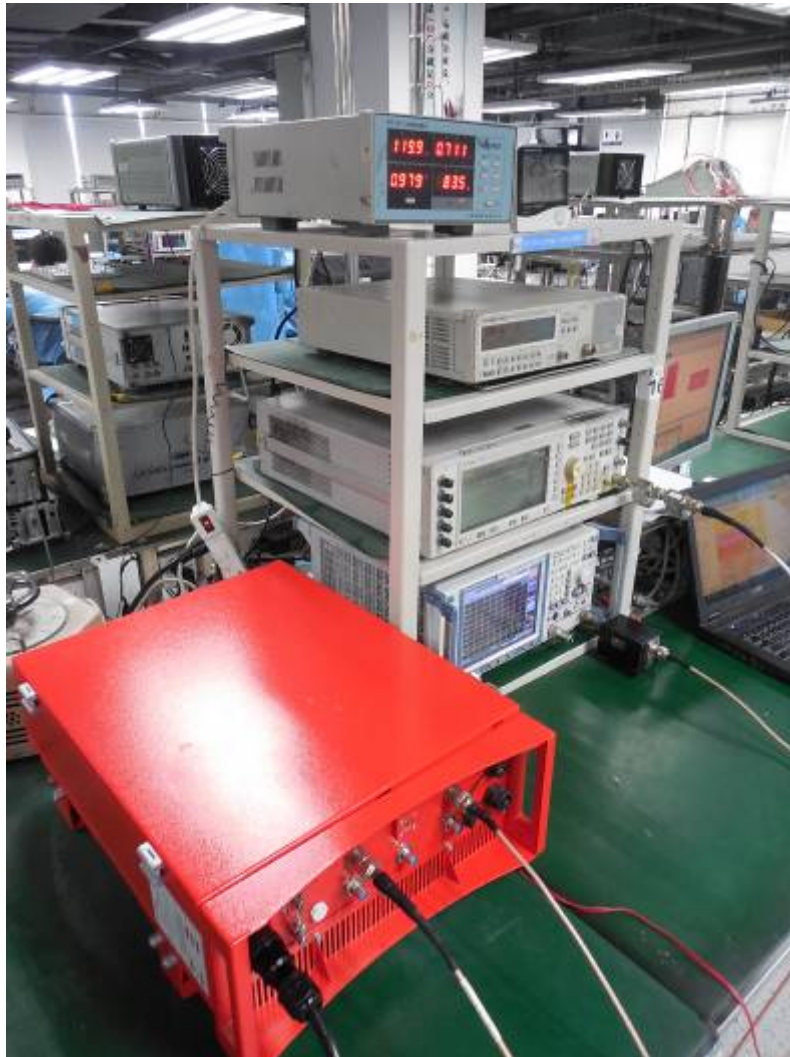
(4) Input Power: DC -48V

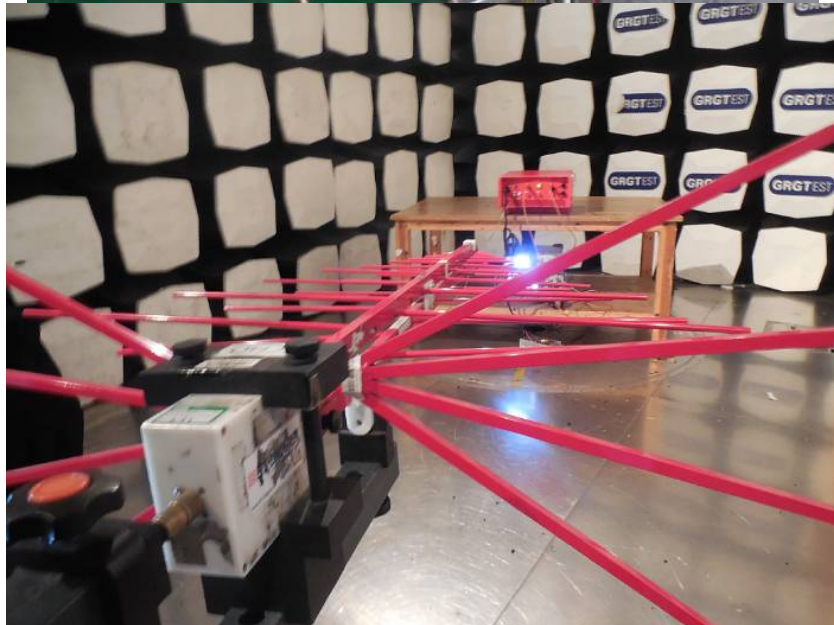
Vertical		Limit(dBm)	Margin(dB)	Result
Test Frequency (MHz)	Measuring level (dBm)			
Frequency range: 30MHz to 1GHz				
44.4587	-41.35	≤-13dBm	-28.35	pass
47.5600	-41.29		-28.29	pass
65.8859	-47.60		-34.60	pass
76.2510	-47.82		-34.82	pass
384.6920	-57.45		-44.45	pass
908.8899	-56.14		-43.14	pass
Frequency range: 1GHz to 6GHz				
2299.539	-48.34	≤-13dBm	-35.34	pass
2631.792	-47.09		-34.09	pass
3990.910	-47.71		-34.71	pass
4263.378	-47.54		-34.54	pass
5007.119	-47.20		-34.20	pass
5395.241	-47.28		-34.28	pass
Note: Sweep all the modulation types emissions in 700MHz Band , find the worse case to report it.				

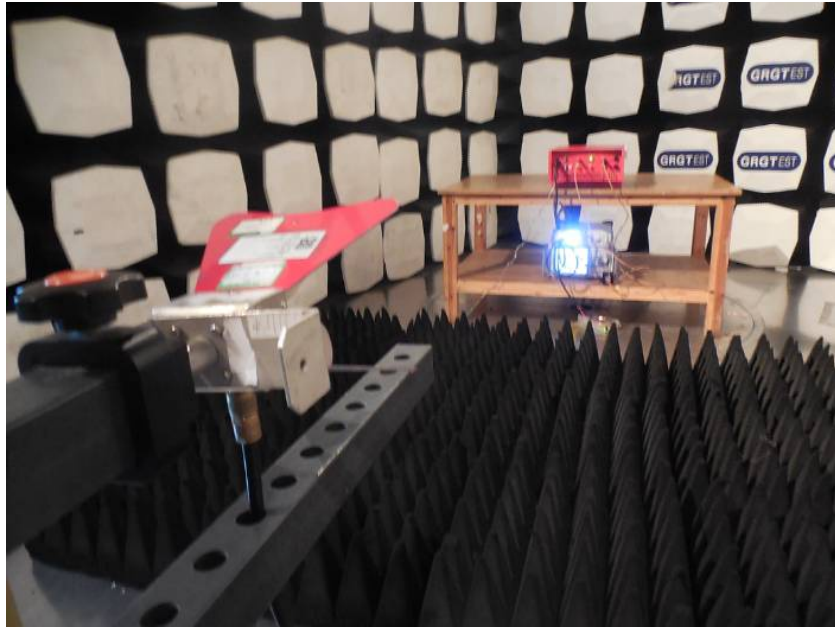
Horizontal		Limit(dBm)	Margin(dB)	Result
Test Frequency (MHz)	Measuring level (dBm)			

Frequency range: 30MHz to 1GHz				
43.9617	-41.46	≤-13dBm	-28.46	pass
47.0285	-42.32		-29.32	pass
65.1495	-47.84		-34.84	pass
71.2787	-48.41		-35.41	pass
86.2853	-50.21		-37.21	pass
929.5511	-57.33		-44.33	pass
Frequency range: 1GHz to 6GHz				
2631.792	-47.09	≤-13dBm	-34.09	pass
2763.447	-47.82		-34.82	pass
3273.606	-47.47		-34.47	pass
3990.910	-47.71		-34.71	pass
4263.378	-47.54		-34.54	pass
5007.119	-47.20		-34.20	pass
Note: Sweep all the modulation types emissions in 700MHz Band , find the worse case to report it.				

### APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM







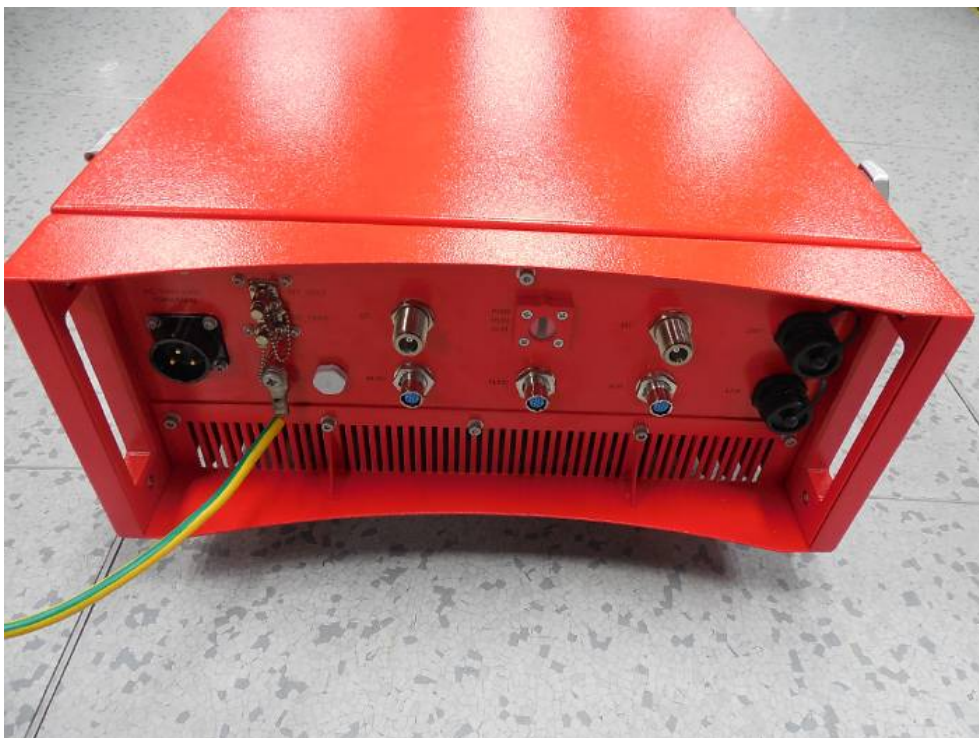


## APPENDIX B. PHOTOGRAPHS OF EUT

### 1 External photos



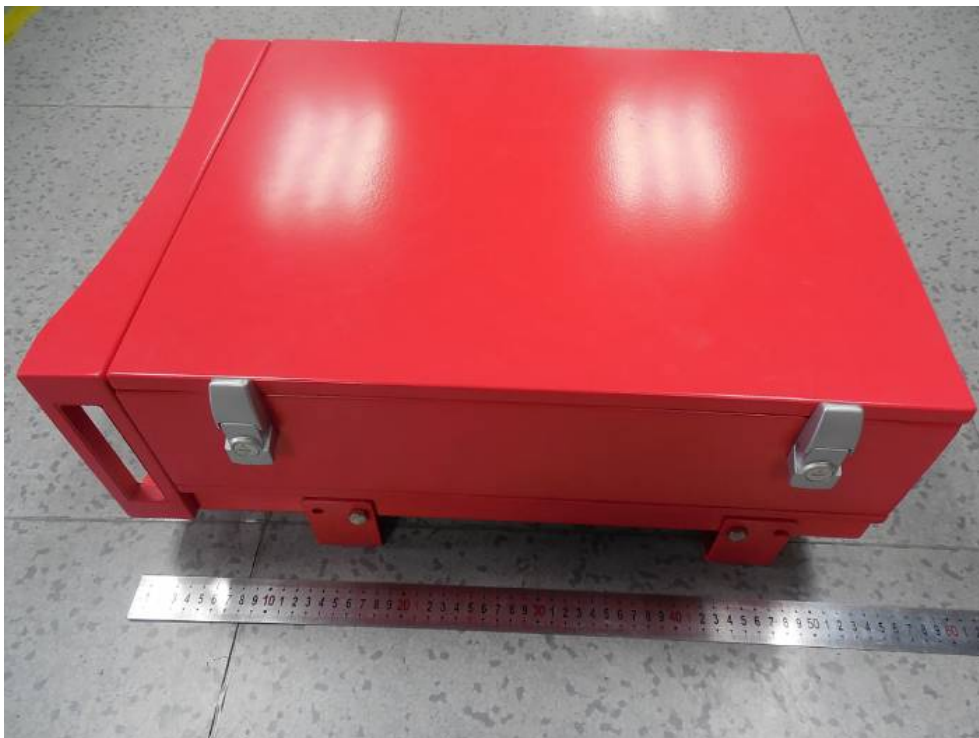
Top surface



Front surface



Behind surface



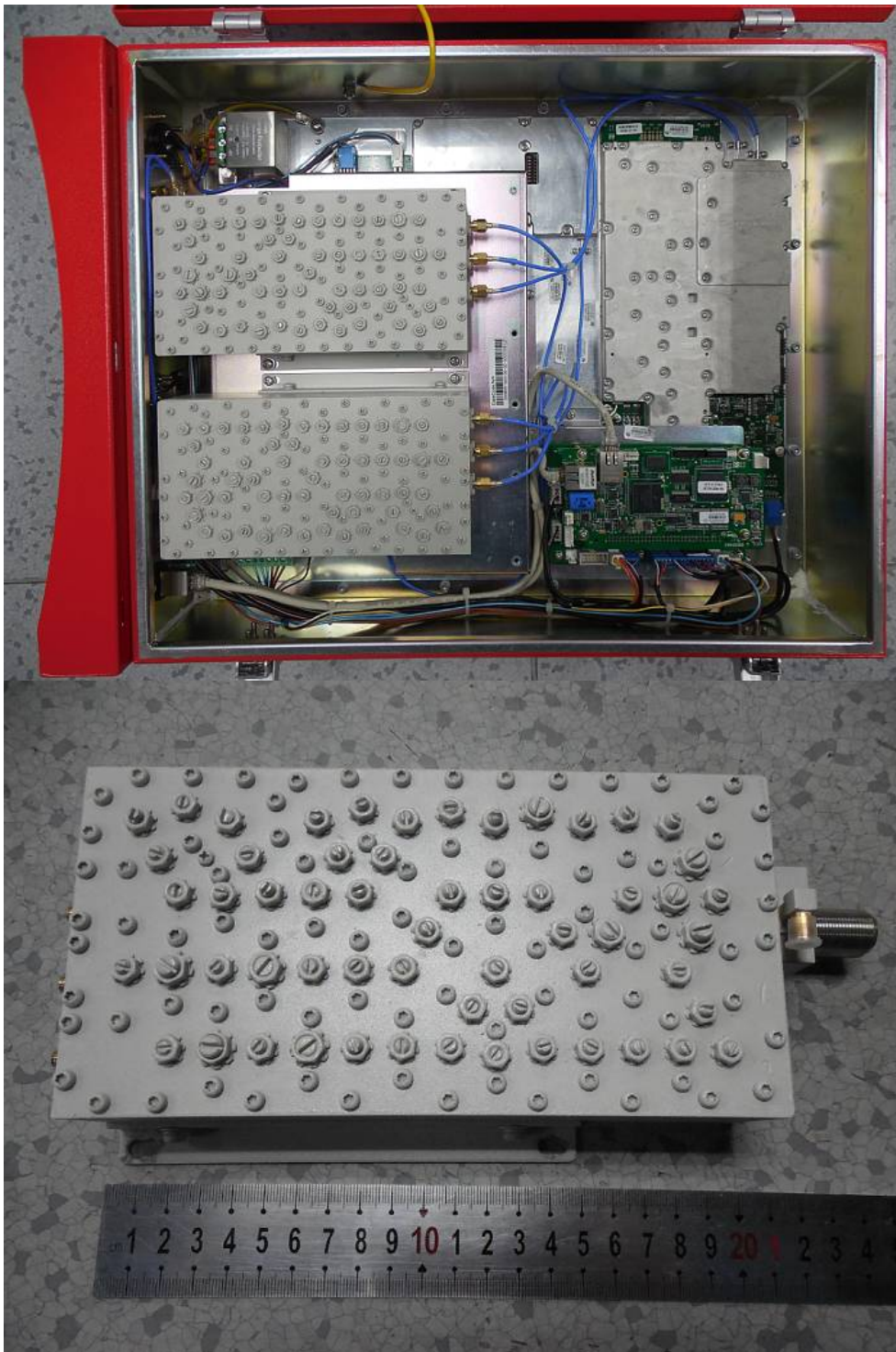


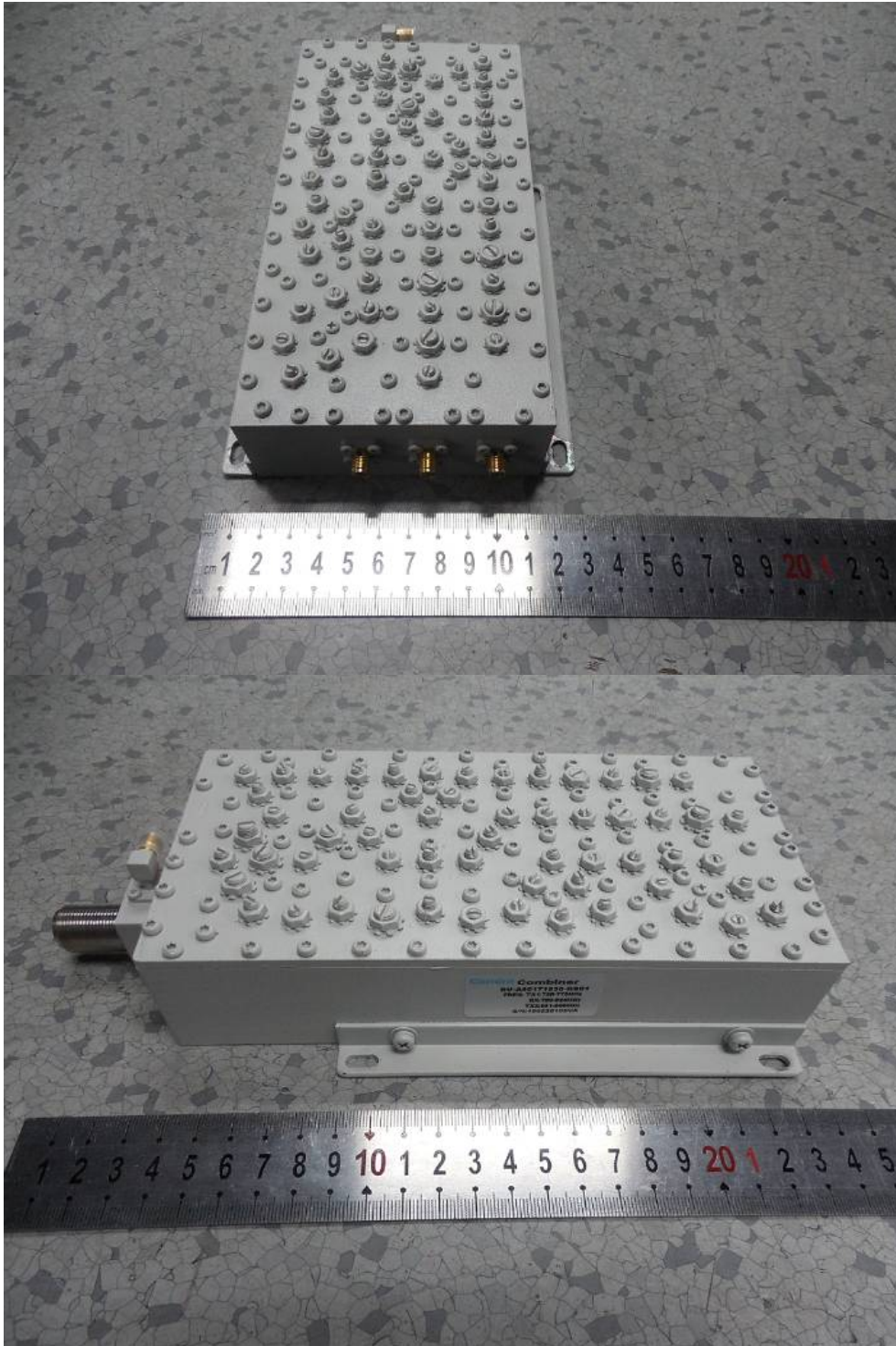
Side surface

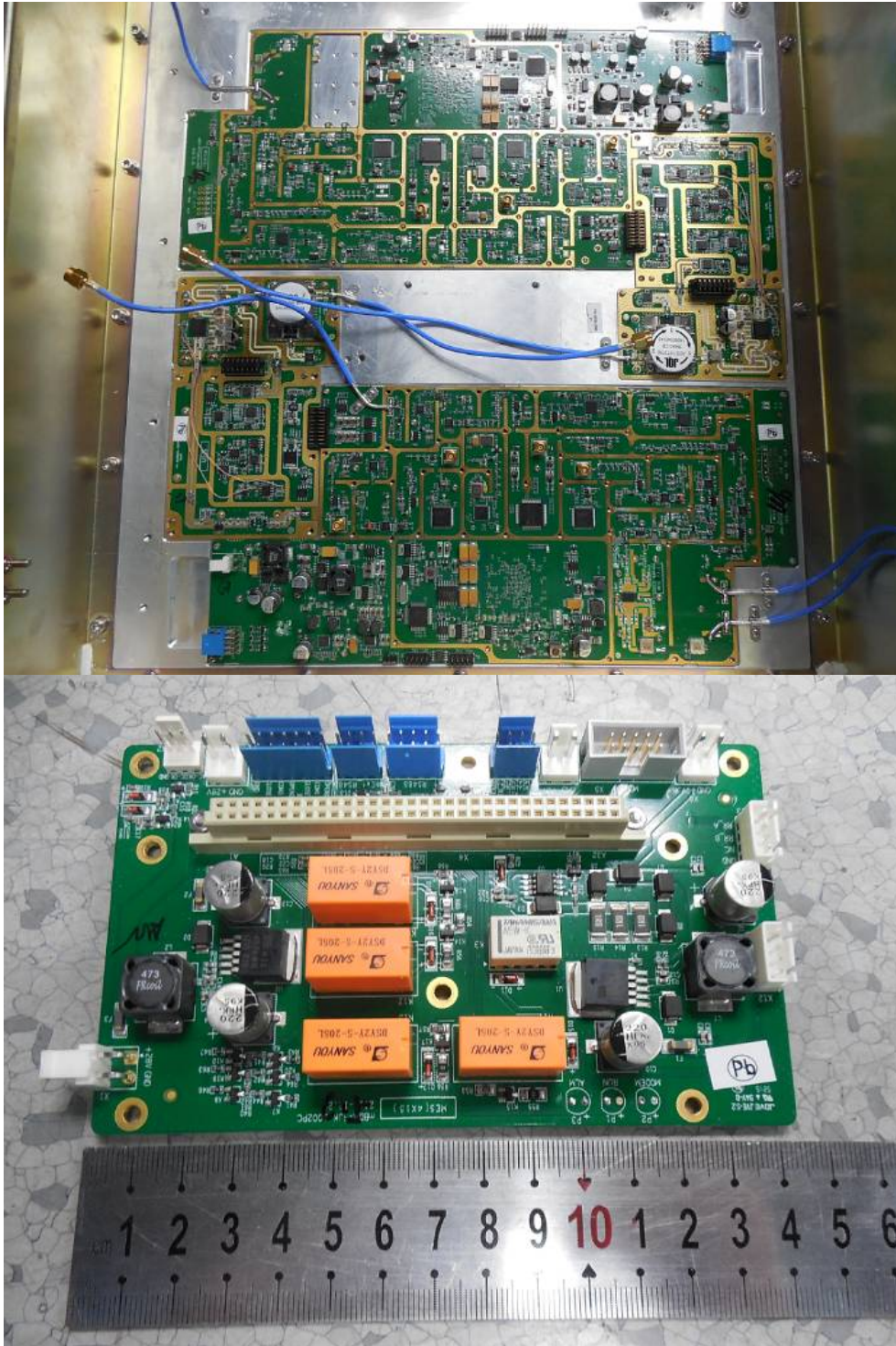


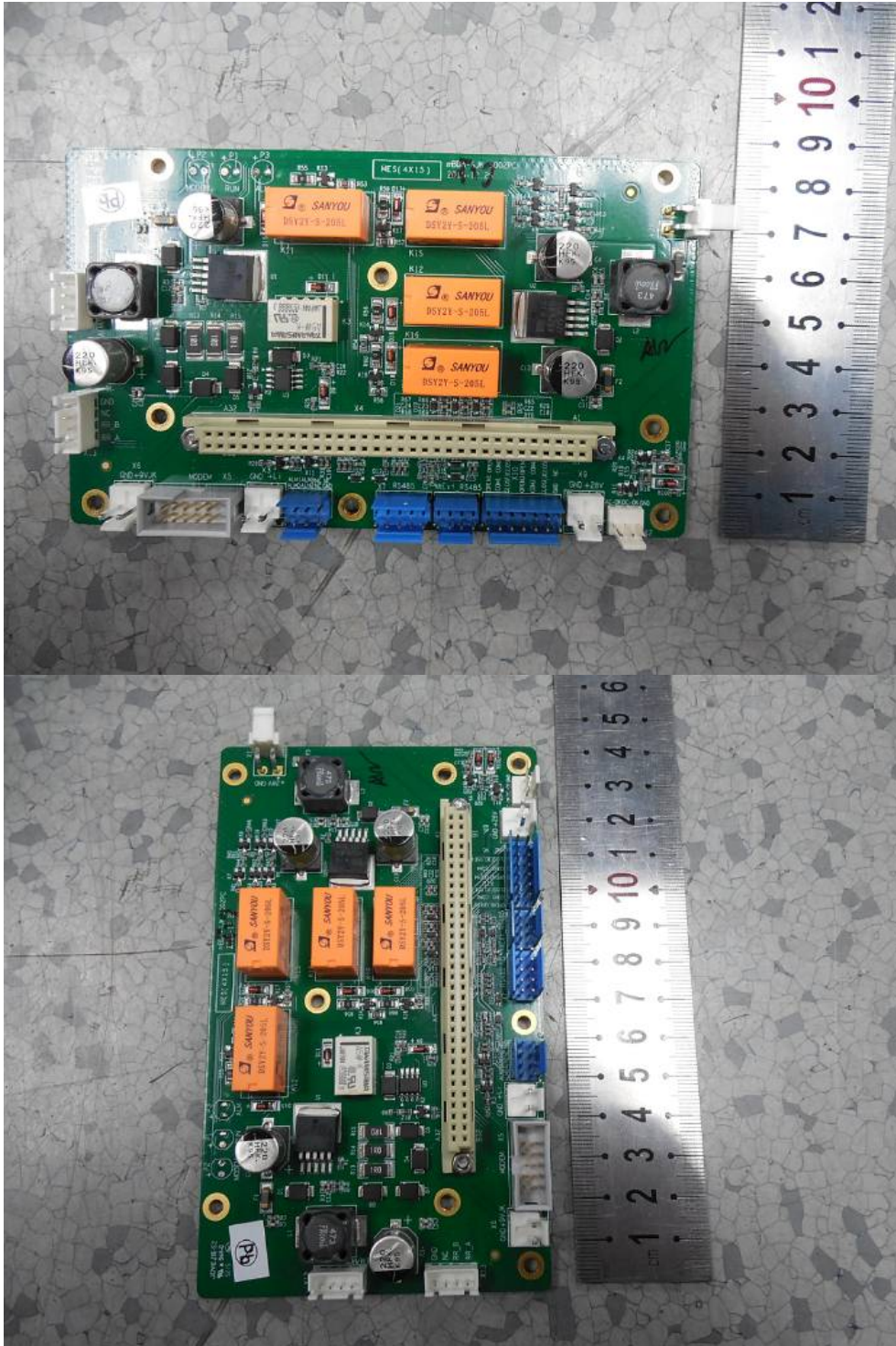
bottom surface

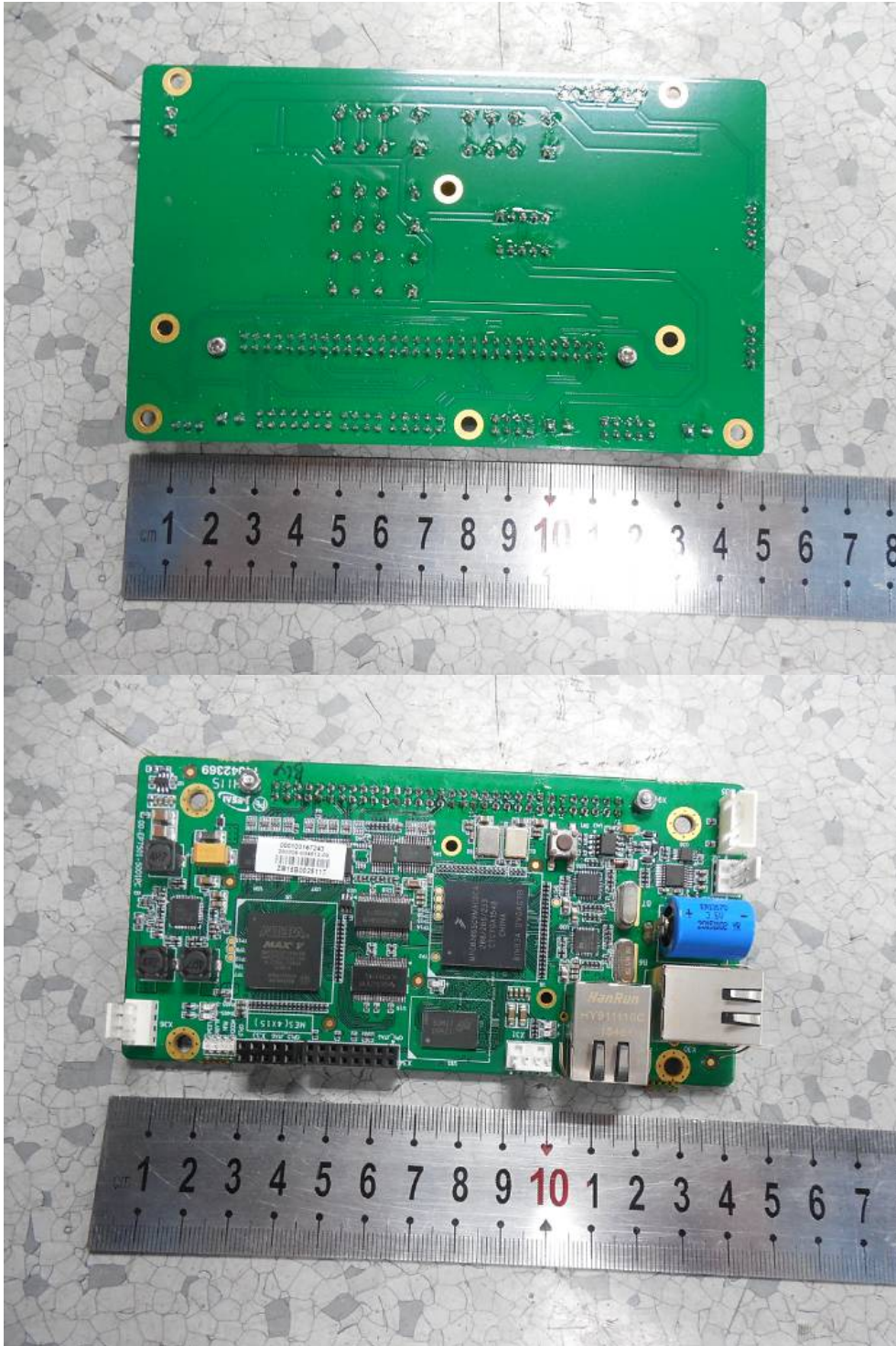
## 2 Internal photos



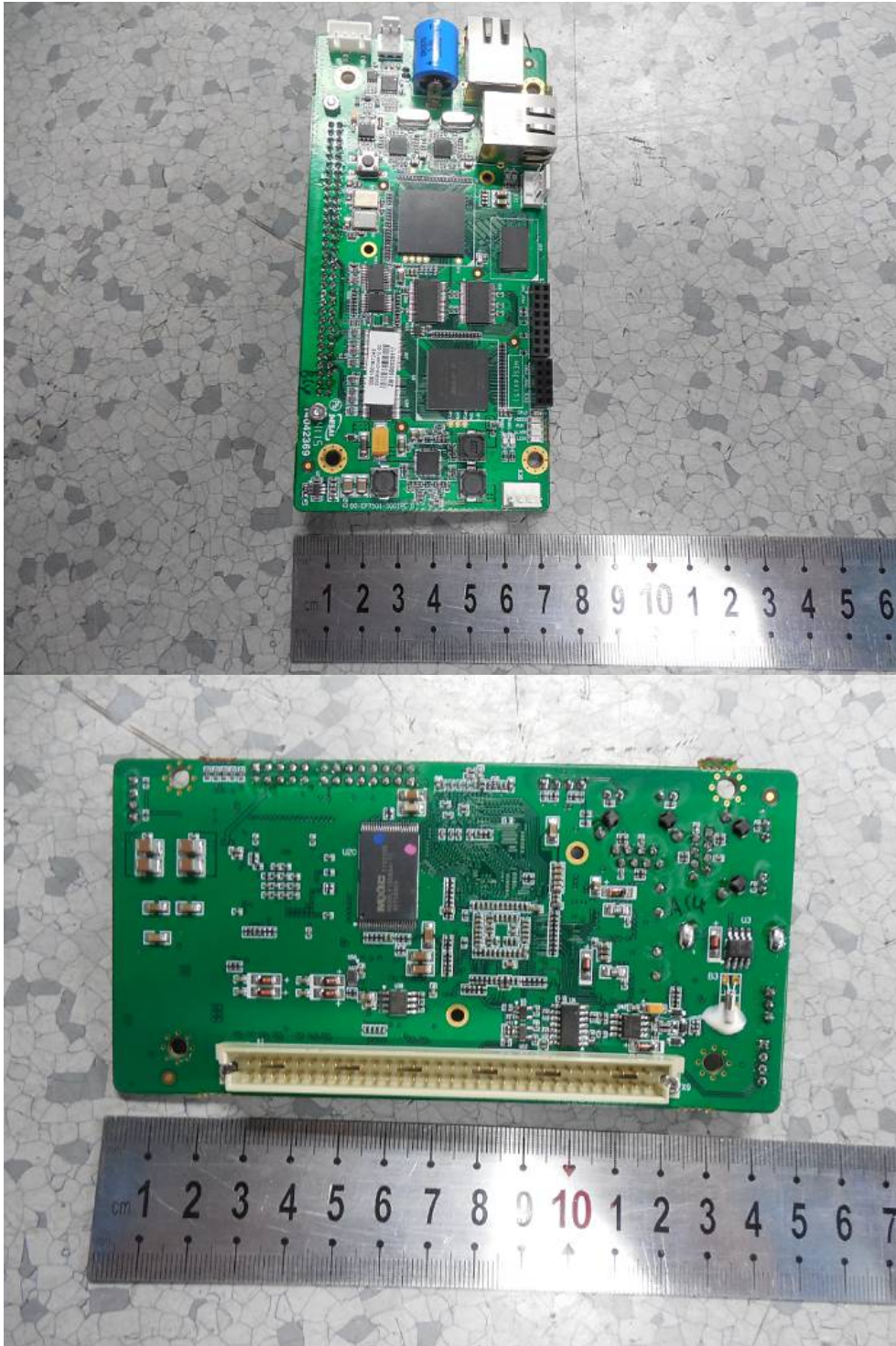




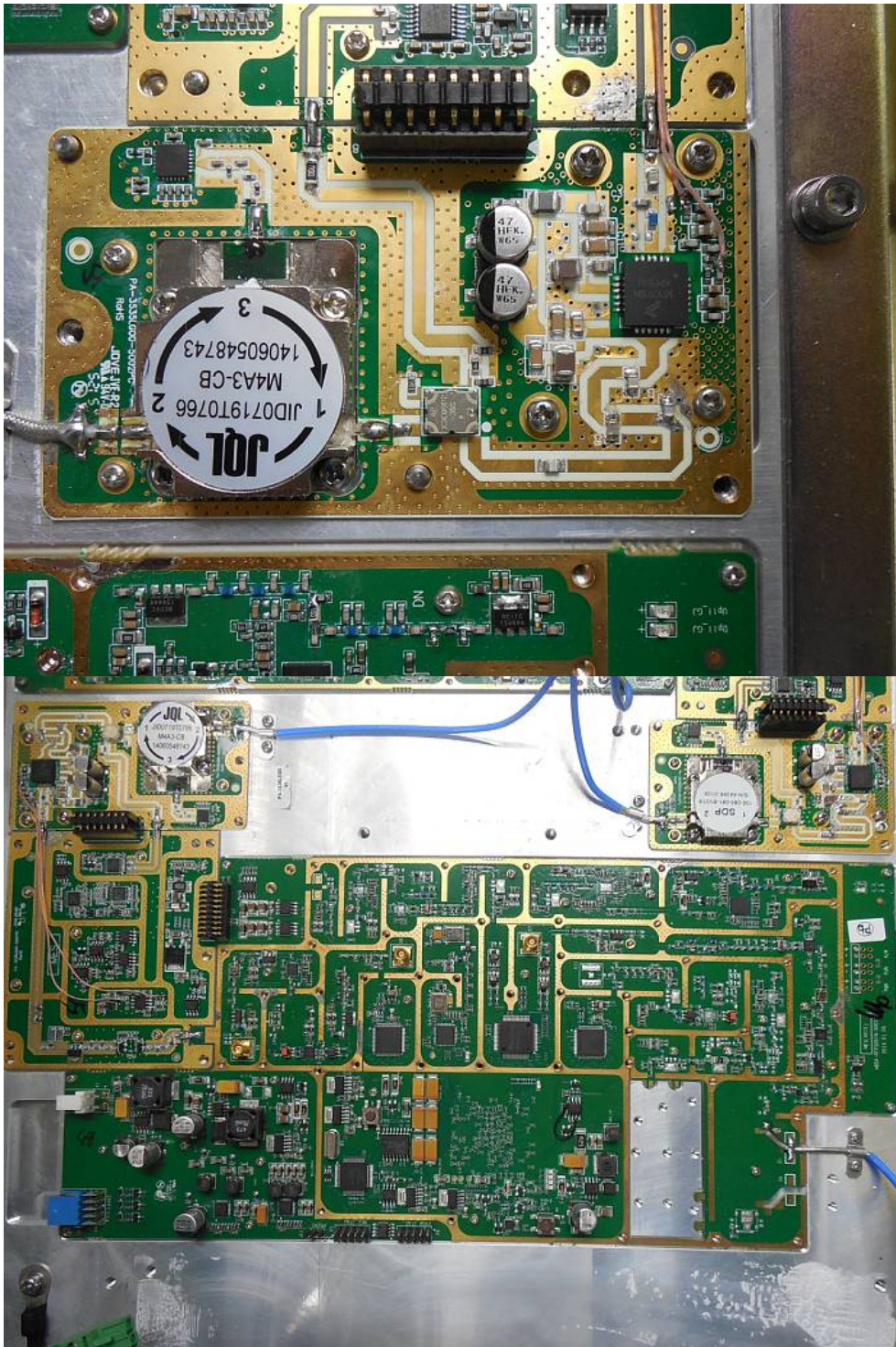




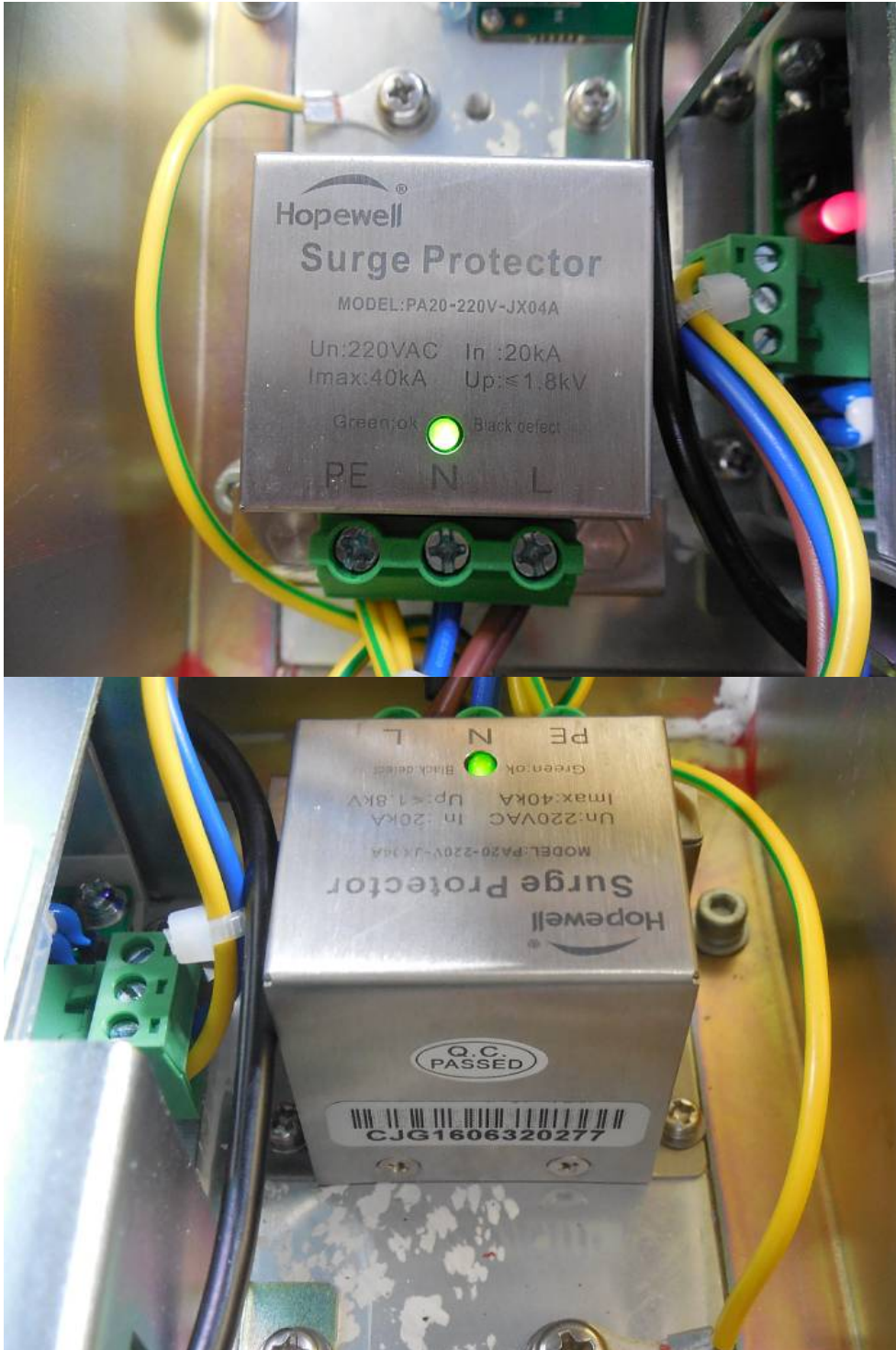










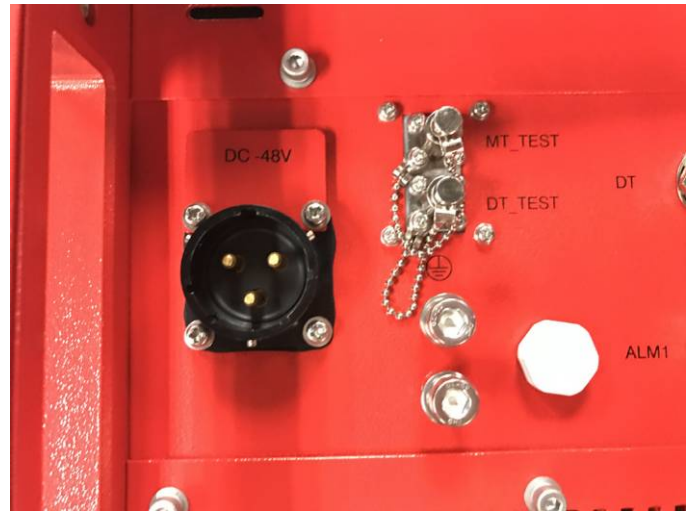


### 3 Photo caption

About the power supply device is different from the appearance of the power source identification port, power module and surge protector module, as shown in the following :



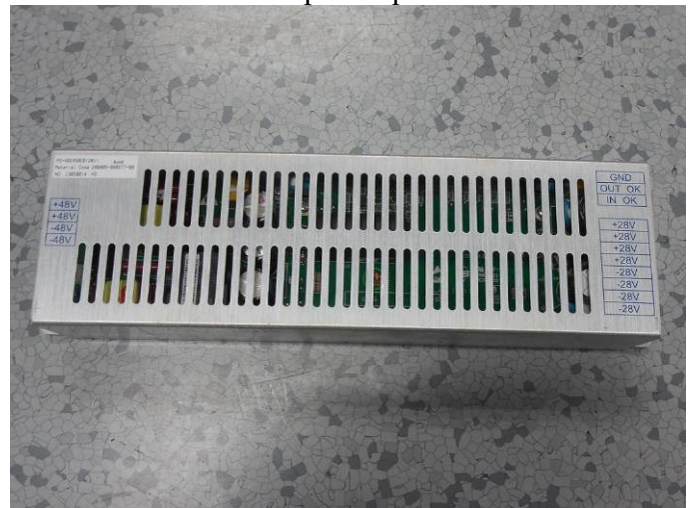
AC power port



DC power port



AC power module



DC power module



AC Surge protector



DC Surge protector

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