MPE REPORT

According to

CFR47 §1.1307(b)(1)& §2.1091& RSS-102 issue 5

Applicant	**: Mitac Digital Technology Corporation**
Address	**: No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist. 33383 Taoyuan City,TAIWAN**
Manufacturer	**: Mitac Computer (Kunshan) Co., Ltd.**
Address	**: No. 269, 2nd Avenue, District A, Comprehensive Free Trade Zone, 215300 Kunshan, Jiangsu, PEOPLES REPUBLIC OF CHINA**
Equipment	**: Tablet**
Model No.	**: N642**
FCC ID	**: P4Q-N642-M1000**
IC	**: 2420C-N642-M1000**

■ The test result refers exclusively to the test presented test model / sample.

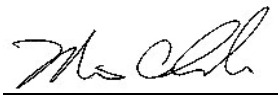
■ Without written approval of ***Cerpass Technology (Suzhou) Co., Ltd.***, the test report shall not be reproduced exc- ept in full.

■ The test report must not be used by the clients to claim product certification approval by any agency of the Government.

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.10 – 2013&FCC Part 1.1307(b)(1)&FCC Part 2.1091&RSS-Gen issue 5&RSS-102 issue 5** and the energy emitted by this equipment was ***passed.***

Approved by:



Miro Chueh
EMC/RF Manager

Laboratory Accreditation:
Cerpass Technology Corporation Test Laboratory

☐ **TAF LAB Code: 1439**

Cerpass Technology (SuZhou) Co., Ltd.

☒ **A2LA LAB Code: 4981.01**

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

LIMIT

According to subpart 15.247 (i) , subpart 1.1307 (b)(1) and subpart 2.1091, systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/		f/1500	30
1500-100,000	/		1.0	30

Note: f = frequency in MHz; * = Plane - wave equivalent power density

CALCULATED FORMULARY

Calculation

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$

S = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit\,i}} \le 1$$

TEST RESULTS

Modulation Mode	Frequency band (MHz)	Max. Conducted output power(dBm)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm^2)	Limit (mW/cm^2)	Result
DH5	2400-2483.5	0.52	4.35	20	0.0010	1	Pass
2DH5	2400-2483.5	0.39	4.35	20	0.0009	1	Pass
3DH5	2400-2483.5	1.58	4.35	20	0.0012	1	Pass
BLE	2400-2483.5	0.22	4.35	20	0.0009	1	Pass

Modulation Mode	Frequency band (MHz)	Max. Conducted output power(dBm)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm^2)	Limit (mW/cm^2)	Result
802.11b	2400-2483.5	18.86	4.35	20	0.07	1	Pass
802.11g	2400-2483.5	25.28	4.35	20	0.29	1	Pass
802.11n HT20	2400-2483.5	24.85	4.35	20	0.26	1	Pass
802.11n HT40	2400-2483.5	25.09	4.35	20	0.28	1	Pass

Modulation Mode	Frequency band (MHz)	Max. Conducted output power(dBm)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm^2)	Limit (mW/cm^2)	Result
802.11a	5150-5350	18.50	2.91	20	0.04	1	Pass
	5470-5725	16.56	4.33	20	0.04	1	Pass
	5725-5850	14.25	5.41	20	0.03	1	Pass
802.11n HT20	5150-5350	18.43	2.91	20	0.04	1	Pass
	5470-5725	16.76	4.33	20	0.04	1	Pass
	5725-5850	14.34	5.41	20	0.03	1	Pass
802.11n HT40	5150-5350	18.01	2.91	20	0.04	1	Pass
	5470-5725	16.78	4.33	20	0.04	1	Pass
	5725-5850	13.43	5.41	20	0.02	1	Pass

******* END OF REPORT *******