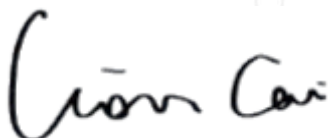


TEST REPORT

Application No.: BTEK241111036A02-T05
Applicant: MAXNERVA TECHNOLOGY SERVICES LTD
Address of Applicant: Room 1001,10/F Houston Centre, 63 Mody Road, Tsim Sha Tsui East, Kowloon,Hong Kong SAR,China
Manufacturer: MAXNERVA TECHNOLOGY SERVICES LTD
Address of Manufacturer: Room 1001,10/F Houston Centre, 63 Mody Road, Tsim Sha Tsui East, Kowloon,Hong Kong SAR,China
Equipment Under Test (EUT):
EUT Name: MULTIMEDIA PROJECTOR
Test Model.: P136
Adding Model(s): IN3008SL, IN3018SL
Trade Mark: **InFocus**
FCC ID: 2BDYA-P136
Standard(s) : 47 CFR Part 2 Subpart J Section 2.1091
447498 D01 General RF Exposure Guidance v06
Date of Receipt Sample(s): 2024-11-13
Date of Test: 2024-11-14 to 2024-12-25
Date of Issue: 2024-12-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Lion Cai/ Approved & Authorized
EMC Laboratory Manager



Revision Record			
Version	Issue Date	Revisions	Remarks
V0	2024-12-26	Initial	Valid

Authorized for issue by:			
			
		Karl Liu / File Editor	
			
		June Li/Reviewer	

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



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3 General Information

3.1 Details of E.U.T.

Power supply:	WITCHING ADAPTER Model:MS-Z3420R190-060B0-P Input:AC100-240V~ 50/60Hz 1.5A max. Output:65.0W 19.0V 3.42A Li-ion Battery Pack Model:18650-4S2P 41NR19/66-2 DC 14.4V 5200mAh 74.88Wh	
BLE		
Frequency Range:	2402MHz to 2480MHz	
Bluetooth Version:	Bluetooth Core Specification v5.1/4.2/4.1/2.1	
Modulation Type:	GFSK	
Number of Channels:	40	
Antenna Type:	Modules 1:FPC Antenna Modules 2:PCB Antenna	
Antenna Gain:	Modules 1:2.75dBi Modules 2:2.75dBi	
BT		
Frequency Range:	2402MHz to 2480MHz	
Bluetooth Version:	Bluetooth Core Specification v5.1/4.2/4.1/2.1	
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK	
Number of Channels:	78	
Channel Spacing:	1MHz/2MHz/3MHz	
Antenna Type:	Modules 1:FPC Antenna Modules 2:PCB Antenna	
Antenna Gain:	Modules 1:2.75dBi Modules 2:2.75dBi	
2.4G WIFI		
Support Standards:	802.11b, 802.11g, 802.11n-HT20, 802.11n-HT40	
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)	
Type of Modulation:	802.11b: DSSS; 802.11g/n: OFDM	
Quantity of Channels	11 for 802.11b/g/n(HT20) 7 for 802.11n(HT40)	
Channel Separation:	5MHz	
Type of Antenna:	Modules 1 7663:FPC Antenna Modules 2 GTV:PCB Antenna	
Antenna Gain:	Modules 1 7663:	ANT1:2.75dBi ANT2:2.75dBi
	Modules 2 GTV:	ANT1:2.75dBi ANT2:2.75dBi



5G WIFI			
Support Standards:	802.11a, 802.11n(HT20) ,802.11n-HT40, 802.11ac-VHT20, 802.11ac-VHT40,802.11ac-VHT80		
Operation Frequency	U-NII-1:5180-5240MHz U-NII-3: 5745-5825MHz		
Modulation Type:	OFDM		
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz ac(VHT80): 80MHz		
DFS Function:	Slave		
TPC Function:	No Support TPC function		
Antenna Type:	Modules 1 7663:FPC Antenna Modules 2 GTV:PCB Antenna		
Antenna Gain:	Modules 1 7663:	ANT1:2.86dBi ANT2:2.86dBi	ANT1:3.28dBi ANT2:3.28dBi
	Modules 2 GTV:	ANT1:2.86dBi ANT2:2.86dBi	ANT1:3.28dBi ANT2:3.28dBi
Sample No.:	BTEK241111036A01-T05		
Model(s) Difference Statement	☐ Singel Model.		
	☒ Multi-Models: Model No.: P138, IN3008SL, IN3018SL Only the model P138 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No		

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/

The device does not support simultaneous transmission within or between a given module

3.3 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.,

A5&A6, Building B1&B2, No.45 Gangtuo Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518103

Tel:0755-2334 4200

Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



4 Test Requirement

According to S1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

f = frequency in MHz

Friis transmission formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1 Assessment Result

☒ **Passed** ☐ **Not Applicable**

Modules 1 7663:

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2440	BLE-2M	1.91	2	0.0006	1.0000	Pass
2402	BT	5.68	6	0.0015	1.0000	Pass
2437	2.4G WIFI	17.52	18	0.0236	1.0000	Pass
5200	5.2G WIFI	14.30	14.5	0.0108	1.0000	Pass
5825	5.8G WIFI	14.92	15	0.0134	1.0000	Pass



Modules 2 GTV:

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2440	BLE-2M	3.75	4	0.0009	1.0000	Pass
2402	BT	5.89	6	0.0015	1.0000	Pass
2437	2.4G WIFI	15.72	16	0.0149	1.0000	Pass
5200	5.2G WIFI	14.88	15	0.0122	1.0000	Pass
5825	5.8G WIFI	15.63	16	0.0169	1.0000	Pass

Note: 1.The exposure evaluation safety distance is 20cm.

2.Only show the worst case in the test report.

- End of the Report -

