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Maximum Permissible Exposure Evaluation FCC ID: 2ASLP-DVR-FTD8-16

1. Client Information

Applicant	•	HANGZHOU YUNCOOL TECHNOLOGY CO., LTD
Address		10TH Floor, Building 9, Yinhu Innovation Center, Yinhu Street, Fuyang District, Hangzhou, Zhejiang, China
Manufacturer	•	Dongguan City Jufeng Information Technology Company Limited
Address	•	1-3rd Floor Building NO.8, Xinfeng Street, Changlong Village, Huangjiang Town, Dongguan City, China.

2. General Description of EUT

EUT Name		DVR				
Models No.		DVR-FTD8-16, DVR-FTD8-162, CL-FT8D2-1610L, FTD8-162-10L, FTD8-162-9L-B, FTD8-162-12L-B				
Model Different	9	All PCB boards and circuit diagrams are the same, the only difference is that model names.				
Product Description	>	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 5.0(BLE): 40 channels			
	5	Antenna Gain:	1dBi PCB Antenna			
Power Rating		For Adapter (Model: CS-1202000) Input: 100-240V~ 50/60Hz 1.5A Max Output: 12V-2A				
Software Version	:	The second can be and the second seco				
Hardware Version	:					
Connecting I/O Port(S)		Please refer to the User's Manual				
Remark	:	the evaluation report used the EUT(202305-0183-2-2#).				

TB-RF-074-1.0



MPE Calculations for WIFI

1. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

S=(PG)/4πR²

Where

- S: power density
- P: power input to the antenna
- G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
- R: distance to the center of radiation of the antenna

3. Simultaneous transmission MPE Considerations

According to KDB447498: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

- \sum of MPE ratios ≤ 1.0
- 4. Test Result:

Bluetooth LE worst reported.

Mode	Frequency (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]	Limit of Power Density (mW/ cm ²) (S)
	2402	9.183	9±1	10	1	20	0.0025	1
BLE 1Mbps	2440	8.318	8±1	9	1	20	0.0020	1
Thinks	2480	7.992	8±1	9	1 2	20	0.0020	1
	2402	9.169	9±1	10	1	20	0.0025	1
BLE 2Mbps	2440	8.293	8±1	9	1	20	0.0020	1
	2480	7.985	8±1	9		20	0.0020	1





5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For Bluetooth LE

MPE limit S: 1mW/ cm²

The MPE is calculated as $0.0025 < limit 1mW / cm^2$. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF REPORT-----

