



RF Exposure Evaluation

FCC ID: 2A40U-INNOVVH5

1. Client Information

Applicant	:	INNOVV TECH CO., LIMITED
Address	:	4th Floor, Huagu Science and Technology Park, No.3, Shenhua Road, Zhongkai High-tech District, Huizhou City, Guangdong Province, China
Manufacturer	:	INNOVV TECH CO., LIMITED
Address	:	4th Floor, Huagu Science and Technology Park, No.3, Shenhua Road, Zhongkai High-tech District, Huizhou City, Guangdong Province, China

2. General Description of EUT

EUT Name	:	Helmet Camera
Model(s)	:	INNOVV H5
Model Difference	:	----
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz
		Number of Channel: 802.11b/g/n(HT20):11 channels
		RF Output Power: 8.89dBm (Max)
		Antenna Gain: 2.0dBi FPC Antenna
		Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM,64QAM)
Bit Rate of Transmitter: 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 72.2Mbps		
Power Supply	:	USB Input: DC 5V1A (DC 5V by 1200mAh Li-ion battery)*2
Software Version	:	H5_20220421_V01
Hardware Version	:	Ver1.0
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] * \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 3.0 \text{ for 1-g SAR}$$

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] * \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
802.11b						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.46	8±1	9	7.943	2.467	3.0
2.437	8.71	8±1	9	7.943	2.480	3.0
2.462	8.53	8±1	9	7.943	2.493	3.0

Test separation: 5mm						
802.11g						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.61	8±1	9	7.943	2.467	3.0
2.437	8.63	8±1	9	7.943	2.480	3.0
2.462	8.58	8±1	9	7.943	2.493	3.0

Test separation: 5mm						
802.11n(HT20)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.67	8±1	9	7.943	2.467	3.0
2.437	8.89	8±1	9	7.943	2.480	3.0
2.462	8.88	8±1	9	7.943	2.493	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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