

RF Exposure

Applicant : Heilongjiang Tianyouwei Electronic Co., Ltd
Address : No. 9 Kunshan Road, Economic And Technological
Development Zone, Suihua City, Heilongjiang Province
Product Name : MMI2.0 5HYV
Brand Mark : CFMOTO
Model : 5HYV-DMR-00
Series model : N/A
Report Number : BLA-EMC-202511-A3709
FCC ID : 2BS5K-5HYV
Date of Receipt : Nov. 14, 2025
Date of Test : Nov. 14, 2025 to Dec. 17, 2025
47 CFR Part 15, Part 1.1307
Test Standard : 47 CFR Part 15, Part 2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

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Review by:

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Approved by:

J. Zheng

Issued Date:

Dec. 17, 2025



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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Revise Record

Version No.	Date	Description
01	Dec. 17,2025	Original

1 General information

1.1 General information

Applicant	Heilongjiang Tianyouwei Electronic Co., Ltd
Address	No. 9 Kunshan Road, Economic And Technological Development Zone, Suihua City, Heilongjiang Province
Manufacturer	TYW MANUFACTURING MEXICO, S DE RL DE CV
Address	Zaraiche 652, Centro Industrial de Guanajuato, Cp 36835, Irapuato, guanajuato, Mexico
Factory	TYW MANUFACTURING MEXICO, S DE RL DE CV
Address	Zaraiche 652, Centro Industrial de Guanajuato, Cp 36835, Irapuato, guanajuato, Mexico

1.2 General description of EUT

Product name	MMI2.0 5HYV
Model no.	5HYV-DMR-00
Series model	N/A
Differences of Series model	N/A
Power supply or adapter information	DC12V
Hardware version	HW.0.01.00
Software version	SW.0.00.05
Engineer sample no.	BLA-EMC-202511-A37

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

For BT 1

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK, π /4DQPSK,8DPSK
Channel Spacing	1MHz
Number of Channels	79
Antenna Type	FPC antenna
Antenna Gain	2.94dBi(Provided by customer)

For BLE 1

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Rate data	1Mbps; 2Mbps
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	FPC antenna
Antenna Gain	2.94dBi(Provided by customer)

For BT 2

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK, π /4DQPSK,8DPSK
Channel Spacing	1MHz
Number of Channels	79
Antenna Type	PCB antenna
Antenna Gain	-1.6dBi(Provided by customer)

For BLE 2

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Rate data	1Mbps; 2Mbps
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	PCB antenna
Antenna Gain	-1.6dBi(Provided by customer)

For 2.4GWIFI

Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Nominal Bandwidth	20MHz&40MHz
Channel Spacing	5MHz
Number of Channels	802.11b/g/n(HT20): 11 802.11n(HT40):7
Antenna Type	FPC antenna
Antenna Gain	2.94dBi(Provided by customer)
Function	☒ SISO ☐ 2x2 MIMO ☐ TPC

For 5GWIFI

Operating Frequency	Band1: 5180MHz~5240MHz;Band2:5260MHz~5320MHz Band4:5745MHz~5825MHz
Channel numbers	Band 1: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1
	Band 2: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1
	Band 4: 802.11a/802.11(HT20)/802.11ac(HT20): 5, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1
Modulation Type	OFDM
Nominal Bandwidth	20MHz&40MHz&80MHz
Channel Spacing	10MHz
Antenna Type	FPC antenna
Antenna Gain	5.28dBi(Provided by customer)
Function	☒ SISO ☐ 2x2 MIMO ☐ TPC

2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

FCC	Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
	Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
	A2LA Cert. No.:	5071.01
	FCC Designation No.:	CN1252
	Test Firm Registration Number:	923526
Telephone:		+86-755-28682673
FAX:		+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.2 Limits

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Distance (cm)	Limit of Pth(mW)	Result
BT1:DH1	2480	9.654	9.23	2.94	10.444	11.08	20	3060.00	Pass
BT1:BLE 2M	2442	-3.645	0.43	2.94	-2.855	0.52	20	3060.00	Pass
BT2:3-DH1	2480	10.021	10.05	-1.6	6.271	4.24	20	3060.00	Pass
BT2:BLE 2M	2480	9.765	9.47	-1.6	6.015	3.99	20	3060.00	Pass
2.4G WIFI:802.11B	2437	16.565	45.34	2.94	17.355	54.39	20	3060.00	Pass
5G WIFI:802.11A	5280	15.795	37.98	2.94	16.585	45.55	20	3060.00	Pass

ERP=Max Output power+Ant gain-2.15

Simultaneous emission:

$\sum_{i=1}^a \frac{P_i}{P_{th,i}}$	$=(9.23-3.654+10.021+9.765+16.565+15.795)/3060=0.018863<1$
$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}}$	$=(11.08+0.52+4.24+3.99+54.39+45.55)/3060 =0.03938<1$

Comply with RF exposure exemption limit.

----END OF REPORT----

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