



MAXLAB Testing Co.,Ltd.

Report No.: MAX25030155P01-R05

RF TEST REPORT

Report Reference No..... : MAX25030155P01-R05

FCC ID..... : 2BPVZ-HT-A001

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Applicant's name..... : Happy Tik USA LLC

Address..... : 1429 Vivginia Ave Baldwin Park,CA 91706 USA

Test specification..... :

Standard..... : KDB 447498 D01 General RF Exposure Guidance v06

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Equipment description..... : Automatic pet washing machine

Trade Mark..... : Happy Tik

Manufacturer..... : Happy Tik USA LLC

Model/Type reference..... : HT-A001

Listed Models : N/A

Modulation : GFSK

Frequency..... : From 2402MHz to 2480MHz

Ratings..... : AC 120V

Result..... : PASS

RF Exposure Evaluation

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

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.

Test Procedure

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

Test Result of RF Exposure Evaluation

Bluetooth BR/EDR+BLE+WIFI2.4G

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK	2402	0.553	1.14	0.00023	1.0	PASS
	2441	0.841	1.21	0.00024	1.0	PASS
	2480	0.364	1.09	0.00022	1.0	PASS
Π/4DQPSK	2402	0.546	1.13	0.00023	1.0	PASS
	2441	0.916	1.23	0.00025	1.0	PASS
	2480	0.419	1.10	0.00022	1.0	PASS
8DPSK	2402	0.540	1.13	0.00023	1.0	PASS
	2441	0.827	1.21	0.00024	1.0	PASS
	2480	0.351	1.08	0.00022	1.0	PASS
GFSK	2402	0.320	1.08	0.00021	1.0	PASS
	2440	0.712	1.18	0.00023	1.0	PASS
	2480	0.215	1.05	0.00021	1.0	PASS
802.11b	2412	8.64	7.31	0.00146	1.0	PASS
	2437	8.25	6.68	0.00133	1.0	PASS
	2462	8.41	6.93	0.00138	1.0	PASS
802.11g	2412	9.86	9.68	0.00193	1.0	PASS
	2437	9.49	8.89	0.00177	1.0	PASS
	2462	9.96	9.91	0.00197	1.0	PASS
802.11n (HT20)	2412	10.07	10.16	0.00202	1.0	PASS
	2437	10.56	11.38	0.00226	1.0	PASS
	2462	10.1	10.23	0.00204	1.0	PASS
802.11n (HT40)	2422	11.42	13.87	0.00276	1.0	PASS
	2437	11.34	13.61	0.00271	1.0	PASS
	2452	11.26	13.37	0.00266	1.0	PASS

Remark: antenna gain 0 dBi

EUT's module is more than 20cm away from the human body.

NFC

Mode	Channel	Frequency (MHz)	Field strength of fundamental @ 3m		Field strength of fundamental @ 0.2m		Electric Field Strength (V/m)
			(dBuV/m)	V/m	(dBuV/m)	V/m	
ASK	1	13.56	74.83	0.0055	121.87	1.24	60.77

Conclusion: No SAR is required.



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Simultaneous Transmission MPE

WLAN and BT share same modular and antenna, WLAN and BT cannot support simultaneously transmission.

WLAN/BT and NFC share difference modular and antenna, WLAN/BT and NFC can support simultaneity transmission.

According to KDB447498 D01 General RF Exposure Guidance v06 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

Σ of MPE ratios ≤ 1.0

Summary simultaneous transmission results

Maximum Simultaneous transmission MPE Ratios for **NFC,2.4GWLAN**

Maximum MPE ratio NFC	Maximum MPE ratio 2.4GWLAN	Σ MPE ratios	Limit	Results
0.0204	0.0028	0.0023	1.0	PASS

Conclusion

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

.....End of Report.....