RF Exposure Evaluation declaration

Product Name : HYBRID INSTANT CAMERA

Model No. : INSTAX MINI HM1

FCC ID : W2Z-03000006

Applicant : FUJIFILM CORPORATION

Address : 7-3,Akasaka 9-chome,Minato-ku,Tokyo 107-0052,Japan

Date of Receipt : Feb. 11, 2019

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Testing Laboratory
3023

Issued Date: Mar. 06, 2019
Report No.: 1920024R-SAUSP03V00

Product Name	HYBRID INSTANT CAMERA
Applicant	FUJIFILM CORPORATION
Address	7-3,Akasaka 9-chome,Minato-ku,Tokyo 107-0052,Japan
Manufacturer	ABILITY ENTERPRISE CO., LTD.
Model No.	INSTAX MINI HM1
FCC ID.	W2Z-03000006
Trade Name	FUJIFILM
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By : Peggy Tu

(Adm. Assistant / Peggy Tu)

Tested By : Vorana Chen

(Senior Engineer / Vorana Chen)

Approved By :

(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	HYBRID INSTANT CAMERA
Model No.	INSTAX MINI HM1
Trade Name	FUJIFILM
FCC ID	W2Z-03000006
Frequency Range	2402-2480MHz
Number of Channels	V2.1+EDR:79, V4.2:40
Data Speed	BT: 3Mbps, BLE: 1Mbps
Type of Modulation	V2.1+EDR: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps) V4.2: GFSK(1Mbps)
Antenna Type	Print on PCB Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

1.2. Antenna List :

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Ability	N/A	Print on PCB Antenna	1.5dBi for 2.4GHz

1.3. Conducted Power Measurement (Including tolerance allowed for production unit):

				SISO-Main(TX1)				SISO-Aux(TX2)			
Bluetooth mode maximum output power	Standard	Mode	BW	CH	PK Power	AV Target	AV Power	CH	PK Power	AV Target	AV Power
	15.247 (2.4GHz)	Normal	GFSK	0	6.48	6	5.19	0	N/A	N/A	N/A
				39	7.31	6	5.91	39	N/A	N/A	N/A
				78	7.27	6	5.92	78	N/A	N/A	N/A
		EDR	8DPSK	0	8.13	6	4.45	0	N/A	N/A	N/A
				39	8.73	6	5.17	39	N/A	N/A	N/A
				78	8.69	6	5.18	78	N/A	N/A	N/A
		BLE	GFSK	0	6.71	7.5	6.20	0	N/A	N/A	N/A
				19	7.46	7.5	7.00	19	N/A	N/A	N/A
				39	7.54	7.5	7.10	39	N/A	N/A	N/A

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)*sqrt(f(GHz)≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

1.) Operation frequency = 2480MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum AV output power Peak Gain: 1.5dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	Target (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2480	7.5	9	7.94	10	2.502

Note1: The SAR/MPE measurement is not necessary.

Note2: The conducted maximum peak output power is refer to report No.: 1920024R-SACAP01V00 from the DEKRA.