



RF EXPOSURE EVALUATION

Product Name	:	Filmtacy P1 Foldable 3-axis Stabilizer for Smartphone
Model Name	:	SM105
FCC ID	:	2AIHFZYSM105
Specification	:	Bluetooth 5.0
Operation Frequency	:	2402-2480MHz
Number of Channel	:	40
Antenna Type	:	Ceramic antenna
Antenna Gain	:	2.5 dBi
Power supply	:	DC 7.4V Battery
Device category	:	Portable (<20cm separation)

Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v05, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g SAR extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is < 5 mm, a distance of 5mm is applied to determine SAR test exclusion. Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

One antenna is available for the EUT (BT product). The minimum separation distance is 5mm.



Channel Frequency (MHz)	Peak Power Output(dBm)
2402	-0.29
2442	1.42
2480	2.13

Channel Frequency (MHz)	Tune up tolerance (dBm)	Max tune up conducted power(dBm)	Output Peak power (mW)	Calculation Result	Limits
2402	-0.29±1	0.71	1.18	0.3657	3
2442	1.42±1	2.42	1.75	0.5469	3
2480	2.13±1	3.13	2.06	0.6488	3

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

Signature

Chris Du

EMC Manager

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