



FCC RF Exposure

EUT Description: Action Camera

Model No.: S7 Pro

FCC ID: 2BU8P-S7PRO

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,

Where:

$$\text{Result} = P/D \cdot \sqrt{F}$$

F= the RF channel transmit frequency in GHz

P=Maximum turn-up power in mw

D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

		Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power (dBm/mW)	Min test separation distance (mm)	Result	Limit	SAR Test Exclusion
Module 1	BLE	-3.03	-3 $\pm$ 1	-2/0.631	5	0.196	3.0	Pass
	2.4G WiFi	-1.11	-1 $\pm$ 1	0/1.000	5	0.311	3.0	Pass
	5.2G WiFi	-1.36	-1 $\pm$ 1	0/1.000	5	0.457	3.0	Pass
Module 2	BLE	-2.55	-2 $\pm$ 1	-1/0.794	5	0.246	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **DLE-260528013R/DLE-260528014R/DLE-260528015R/DLE-260528018R**,

Module 1: BT antenna gain=2.02dBi, 2.4GWiFi antenna gain=2.02dBi, 5.2GWiFi antenna gain=0.93dBi

Module 2: BT antenna gain=-4.13dBi.



Simultaneous evaluation:

Module 1 BT and 2.4GWIFI: $0.196 / 3 + 0.311 / 3 = 0.1690 < 1$, SAR testing is not required

Module 1 BT and 5.2GWIFI: $0.196 / 3 + 0.457 / 3 = 0.2177 < 1$, SAR testing is not required

2.4G and 5.2GWIFI: $0.311 / 3 + 0.457 / 3 = 0.256 < 1$, SAR testing is not required

Module 2 BT and 2.4GWIFI: $0.246 / 3 + 0.311 / 3 = 0.186 < 1$, SAR testing is not required

Module 2 BT and 5.2GWIFI: $0.246 / 3 + 0.457 / 3 = 0.234 < 1$, SAR testing is not required

Module 1 BT and Module 2 BT: $0.196 / 3 + 0.246 / 3 = 0.1473 < 1$, SAR testing is not required

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold meets the requirements, SAR testing is not required.

Note: Exclusion Thresholds Results= $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}]$

$f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz

Distance=5mm