

FCC RF Exposure

BLE:

EUT Description:EL-ATV-01,Hyperquad

Model No.: EL-ATV-01,HYPER QUAD,JATV,JATV-BLK

Equipment type: mobile device

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1, 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 numericasimulation, is not required when the corresponding SAR Test Exclusion Thresholdocondition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances < 50 mm, the 1-g and 10-g SAR testexclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance mm})] \cdot [f(\text{GHz})] < 3.0 \text{ for 1-g SAR, and } < 7.5 \text{ for 10-g extremity SAR, where } f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

$$\text{EIRP} = \text{E}_{\text{Meas}} + 20 \log(\text{d}_{\text{meas}}) - 104.7$$

EIRP is the equivalent isotropically radiated power,

E_{Meas} in dBm is the field strength of the emission at the measurement distance, in dB u V/m

d_{meas} is the measurement distance, in m

Field strength(dBuV/m)	EIRP(dBm)	Max tune-up(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
88.26	-6.90	0.204288	2402	5	0.063323	3.0
87.31	-7.85	0.164151	2440	5	0.051282	3.0
89.22	-5.93	0.254825	2480	5	0.080260	3.0

BT:

EUT Description:EL-ATV-01,Hyperquad

ModelNo.:EL-ATV-01

FCC ID: 2BAIH-ATV-0Equipment type: Portable Device

1. Test Procedure

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:

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

where

f(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 100 MHz and 6GHz.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. Test Result of RF Exposure Evaluation

Modulation	Channel Freq. (MHz)	Conduct ed power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Min. distance(mm)	Evaluation result	SAR Excludin threshold
GFSK	2402	3.66	2.323	1.6	5	0.7200	3
	2441	2.84	1.923	1.6	5	0.6009	3
	2480	3.55	2.265	1.6	5	0.7133	3

Conclusion: No SAR is required