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Maximum Permissible Exposure Evaluation

FCC ID: 2AUXHDS200

According to FCC 1.1310: 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)

EUT Specification

EUT	Bluetooth Headset
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input checked="" type="checkbox"/> EDR: 2.402GHz ~ 2.480GHz <input type="checkbox"/> BLE: 2.402GHz ~ 2.480GHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (<20cm separation) <input type="checkbox"/> fixed (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. output power	EDR:1.56dBm(π /4-DQPSK)
Antenna gain (Max)	1.5dBi
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

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Friis transmission formula: $P_d = \frac{P_{out} * G}{4 * \pi * R^2}$

Where

P_d = Power density in mW/cm^2

P_{out} = 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

P_d the limit of MPE $1mW/cm^2$. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

EDR:

Support type	Operating Mode	Channel Frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 0.5cm (mW/cm ²)	Power density Limits (mW/cm ²)
EDR	GFSK	2402	-0.15	-0.15 ± 1	0.85	1.5	0.54684	1
EDR	GFSK	2441	0.59	0.59 ± 1	1.59	1.5	0.64843	1
EDR	GFSK	2480	1.5	1.5 ± 1	2.5	1.5	0.79958	1
EDR	$\pi/4$ -DQPSK	2402	-0.2	-0.2 ± 1	0.8	1.5	0.54058	1
EDR	$\pi/4$ -DQPSK	2441	0.54	0.54 ± 1	1.54	1.5	0.64101	1
EDR	$\pi/4$ -DQPSK	2480	1.56	1.56 ± 1	2.56	1.5	0.81071	1
EDR	8-DPSK	2402	-0.21	-0.21 ± 1	0.79	1.5	0.53934	1
EDR	8-DPSK	2441	0.6	0.6 ± 1	1.6	1.5	0.64992	1
EDR	8-DPSK	2480	1.52	1.52 ± 1	2.52	1.5	0.80327	1

Note

The transmitter signals are correlated:

For a more detailed features description, please refer to the RF Test Report.

*****THE END*****