Dt&C

FCC ID: 2ADE9HU20ASFBT

Standalone SAR test exclusion considerations: Bluetooth

Date: January 22, 2019

RF feauture	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm)[Note1]	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
BT	BDR(1Mbps)	2480.00	5.0	1.99	3.00	1.9953	0.63	3.00
BT	EDR(2,3Mbps)	2480.00	5.0	1.99	0.00	1.0000	0.31	3.00

Note1. Please refer to the operation description for Max tune-up.

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR

Sample Calculation

= [(1.9953mW / 5mm)] X [√2.48GHz] = 0.63

Note. The calculation result was rounded to two decimal place for comparison.

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required

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Standalone SAR test exclusion considerations: Bluetooth LE

Date: January 22, 2019

RF feauture	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm)[Note1]	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
Bluetooth LE	1Mbps	2480.00	5.0	1.99	-12.00	0.0631	0.02	3.00

Note1. Please refer to the operation description for Max tune-up.

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR

Sample Calculation

= [(0.0631mW / 5mm)] X [√2.48GHz] = 0.02

Note. The calculation result was rounded to two decimal place for comparison.

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required