

FCC ID: A3LEJ-CT700

1. Standalone SAR test exclusion threshold

Per FCC KDB 447498 D01v05, the SAR exclusion threshold for distances < 50mm is defined by the following equation:

$$\frac{\text{Max Power of Channel (mW)}}{\text{Test Separation Distance (mm)}} * \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

Frequency = 2 480 MHz

Test. Separation Distances = 5 mm

Maximum Tune-up Tolerances = 2.5 dBm

Bluetooth Mode Calculation value: $2 \text{ (mW)} / 5 \text{ (mm)} \times \sqrt{2.480} = 0.63$

So, Calculation value ≤ 3.0

Bluetooth Mode Conclusion: Standalone SAR is not required

2. Simultaneous transmission SAR test exclusion threshold

2.1 Estimated SAR Evaluation Analysis

When standalone SAR is not required to be measured per FCC KDB 447498 D01v05 4.3.2.2), the following equation must be used to estimate the standalone 1g SAR for simultaneous transmission involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} * \frac{(\text{Max Power of channel, mW})}{\text{Min. Separation Distance, mm}}$$

Mode	Frequency	Maximum Allowed Power	Separation Distance	Estimated SAR
	[MHz]	[mW]	[mm]	[W/kg]
Bluetooth	2480	2	5	0.084

2.2 SPLSR Evaluation Analysis

Antenna Pair			Worst case 1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR Sum (W/kg)	Separation Distance (mm)	SPLS Ratio	SPLS Ratio Limit
Ant "a"		Ant "b"	a	b	a + b	Worst D _{a-b}	(a+b) ^{1.5} / D _{a-b}	
1	B.T		1.6	0.084	1.684	105	0.021	≤ 0.04
			UMTS 850 / 1900					
			LTE Band 5					
2			Wi-Fi Main (2.4, 5 GHz)					
			Bluetooth & LE					
3			Wi-Fi Aux (2.4, 5 GHz)					

2.3 Simultaneous Transmission conclusion

The above numerical summed SAR results and SPLSR analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB publication 447498 D01 v05

2.4 Information of Attached Tablet PC

Model No	SM-T705
FCC ID	A3LSMT705
Mode of Operation	GPRS/EDGE 850/1900 UMTS 850 / 1900 LTE Band 5 802.11a,ac,b,g,n Bluetooth & LE
Tx Frequency Range	824.20 MHz ~ 848.80 MHz (GPRS/EDGE 850) 826.40 MHz ~ 846.60 MHz (UMTS 850) 1850.20 MHz ~ 1909 MHz (GPRS/EDGE 1900) 1852.4 MHz ~ 1907.6 MHz (UMTS 1900) 824.7 MHz ~ 848.3 MHz (LTE Band 5) 2412 MHz ~ 2462 MHz (WLAN 2.4 GHz) 5745 MHz ~ 5825 MHz (WLAN 5.8 GHz) 5180 MHz ~ 5240 MHz, (WLAN 5.2 GHz) 5260 MHz ~ 5320 MHz (WLAN 5.3 GHz) 5500 MHz ~ 5700 MHz, (WLAN 5.5 GHz) 2402.00 MHz ~ 2480.00 MHz (Bluetooth & LE)

2.5 Simultaneous Transmission Antenna Separation Distances

Attached Tablet PC, FCC ID: A3LSMT705

Keyboard, FCC ID: A3LEJ-CT700

