

Customer:	RedSeat Entertainment LLC	Notes
Model:	Home DSP	DTS
FCC ID:	2AK7R-02018	
IC ID:		
Classification:	General Population	SAR Exclusion

MPE Calculator	RF Exposure Calculations	
Lowest Frequency	2404.000	MHz
Highest Frequency	2476.000	MHz
Wavelength (lowest frequency)	0.125	m
Antenna aperture (1/4 wavelength radiator assumed)	0.031	m
Far Field Distance	1.560	cm
Power (Antenna Conducted)	1.3200	dBm
Ant Gain dBi	0.5000	dB
Cable Loss	0.0000	dB
ERP dBm	1.8200	dB
ERP mW	1.5205	mW
R	20.0000	cm
S	0.000303	mW/cm <sup>2</sup>

Standards
CFR 47 Part 1.1310
<b>Portable</b>


Occupational/Controlled Exposure Limit			inches	cm	time
OSHA	10.000	mW/cm <sup>2</sup>	7.874	20.000	6
FCC	5.000	mW/cm <sup>2</sup>	7.874	20.000	6
IC	3.165	mW/cm <sup>2</sup>	7.874	20.000	6
General Population/Uncontrolled Exposure Limit					
OSHA	10.000	mW/cm <sup>2</sup>	7.874	20.000	6
FCC	1.000	mW/cm <sup>2</sup>	7.874	20.000	30
IC	0.535	mW/cm <sup>2</sup>	7.874	20.000	6

SAR Test Exclusion per FDB 447498 D01 4.3.1a					
	Value				
Maximum conducted output power (mW)	1.5205				
Tune up tolerance (mW)	1				
Minimum Test Separation distance ≤ 5mm	5		<b>Exemption Limit (mW)</b>		<b>Result</b>
Frequency in GHz	2.476		<b>Head</b>	<b>Limb</b>	
Formula = OP+TU/Separation*√Freq in GHz	<b>Result →</b>	<b>0.793</b>	<b>3.00</b>	<b>7.50</b>	<b>Pass</b>

SAR Test Exclusion per RSS-102 Issue 5 Clause 2.5.1						
	ERP mW	Separation	Freq MHz	<b>Exemption Limit (mW)</b>		<b>Result</b>
				<b>Head</b>	<b>Limb</b>	
Compared to Table 1	1.5205	≤ 5mm	2450	4.00	10.00	<b>Pass</b>