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Maximum Permissive Exposure

FCC ID: AK8SASD40
System Name: Sound Bar[Active Speaker System: SA-SD40; Active Subwoofer: SA-WSD40]
M/N: HT-SD40
EUT: Active Speaker System
M/N: SA-SD40

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation

KYE SYSTEMS CORP. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

2.1. Estimation Result

Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
GFSK	2404	2.569	1.81	4.23	2.65	0.00095
	2440	3.835	2.42	4.23	2.65	0.00127
	2476	4.585	2.87	4.23	2.65	0.00152

Based on safety distance (r) **20cm**, the power density (S) is **0.00152mW/cm^2**.