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Maximum Permissive Exposure

FCC ID: AK8SRSXB402
EUT: Wireless Speaker
M/N: SRS-XB402M; SRS-XB402G

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
Sony Corporation 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

Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm^2)
GFSK (DSS)	2402	6.113	4.09	3.01	2.00	0.0016
	2441	6.531	4.50	3.01	2.00	0.0018
	2480	7.297	5.37	3.01	2.00	0.0021
8-DPSK (DSS)	2402	6.089	4.06	3.01	2.00	0.0016
	2441	6.499	4.47	3.01	2.00	0.0018
	2480	7.292	5.36	3.01	2.00	0.0021
GFSK (DTS)	2402	2.233	1.67	3.01	2.00	0.0007
	2440	2.632	1.83	3.01	2.00	0.0007
	2480	3.453	2.21	3.01	2.00	0.0009

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Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm^2)
11b (DTS)	2412	13.70	23.44	3.18	2.08	0.0097
	2442	13.98	25.00	3.18	2.08	0.0104
	2462	14.42	27.67	3.18	2.08	0.0115
11g (DTS)	2412	13.84	24.21	3.18	2.08	0.0100
	2442	14.10	25.70	3.18	2.08	0.0106
	2462	14.16	26.06	3.18	2.08	0.0108
11n HT20 (DTS)	2412	13.64	23.12	3.18	2.08	0.0096
	2442	14.00	25.12	3.18	2.08	0.0104
	2462	14.16	26.06	3.18	2.08	0.0108
11n HT40 (DTS)	2422	12.49	17.74	3.18	2.08	0.0073
	2442	12.60	18.20	3.18	2.08	0.0075
	2452	13.00	19.95	3.18	2.08	0.0083
11a (NII)	5180	12.84	19.23	4.04	2.54	0.0097
	5200	12.83	19.19	4.04	2.54	0.0097
	5240	13.26	21.18	4.04	2.54	0.0107
11n HT20 (NII)	5180	12.43	17.50	4.04	2.54	0.0088
	5200	12.44	17.54	4.04	2.54	0.0089
	5240	13.12	20.51	4.04	2.54	0.0104
11n HT40 (NII)	5190	11.59	14.42	4.04	2.54	0.0073
	5230	12.14	16.37	4.04	2.54	0.0083
11ac VHT20 (NII)	5180	12.38	17.30	4.04	2.54	0.0087
	5200	12.63	18.32	4.04	2.54	0.0092
	5240	12.96	19.77	4.04	2.54	0.0100
11ac VHT40 (NII)	5190	11.76	15.00	4.04	2.54	0.0076
	5230	12.04	16.00	4.04	2.54	0.0081
11ac VHT80 (NII)	5210	10.27	10.64	4.04	2.54	0.0054

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Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm^2)
11a (NII)	5260	13.51	22.44	4.66	2.92	**0.0131**
	5300	13.12	20.51	4.66	2.92	0.0119
	5320	13.19	20.84	4.66	2.92	0.0121
11n HT20 (NII)	5260	13.17	20.75	4.66	2.92	0.0121
	5300	13.18	20.80	4.66	2.92	0.0121
	5320	13.16	20.70	4.66	2.92	0.0120
11n HT40 (NII)	5270	12.11	16.26	4.66	2.92	0.0095
	5310	12.10	16.22	4.66	2.92	0.0094
11ac VHT20 (NII)	5260	13.13	20.56	4.66	2.92	0.0120
	5300	13.11	20.46	4.66	2.92	0.0119
	5320	12.99	19.91	4.66	2.92	0.0116
11ac VHT40 (NII)	5270	12.36	17.22	4.66	2.92	0.0100
	5310	12.19	16.56	4.66	2.92	0.0096
11ac VHT80 (NII)	5290	10.86	12.19	4.66	2.92	0.0071
11a (NII)	5500	12.26	16.83	4.82	3.03	0.0102
	5600	12.75	18.84	4.82	3.03	0.0114
	5700	12.44	17.54	4.82	3.03	0.0106
11n HT20 (NII)	5500	12.05	16.03	4.82	3.03	0.0097
	5600	12.51	17.82	4.82	3.03	0.0108
	5700	12.24	16.75	4.82	3.03	0.0101
11n HT40 (NII)	5510	11.31	13.52	4.82	3.03	0.0082
	5590	11.84	15.28	4.82	3.03	0.0092
	5670	12.24	16.75	4.82	3.03	0.0101
11ac VHT20 (NII)	5500	12.27	16.87	4.82	3.03	0.0102
	5600	12.55	17.99	4.82	3.03	0.0109
	5700	12.18	16.52	4.82	3.03	0.0100
11ac VHT40 (NII)	5510	11.22	13.24	4.82	3.03	0.0080
	5590	11.70	14.79	4.82	3.03	0.0089
	5670	12.20	16.60	4.82	3.03	0.0100
11ac VHT80 (NII)	5530	9.78	9.51	4.82	3.03	0.0057
	5610	10.58	11.43	4.82	3.03	0.0069

Mode	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain (linear)	MPE (mW/cm^2)
11a (NII)	5745	12.58	18.11	4.91	3.10	0.0112
	5785	11.89	15.45	4.91	3.10	0.0095
	5825	11.37	13.71	4.91	3.10	0.0085
11n HT20 (NII)	5745	12.06	16.07	4.91	3.10	0.0099
	5785	11.46	14.00	4.91	3.10	0.0086
	5825	11.25	13.34	4.91	3.10	0.0082
11n HT40 (NII)	5755	11.28	13.43	4.91	3.10	0.0083
	5795	11.07	12.79	4.91	3.10	0.0079
11ac VHT20 (NII)	5745	11.95	15.67	4.91	3.10	0.0097
	5785	11.79	15.10	4.91	3.10	0.0093
	5825	11.16	13.06	4.91	3.10	0.0081
11ac VHT40 (NII)	5755	11.18	13.12	4.91	3.10	0.0081
	5795	11.03	12.68	4.91	3.10	0.0078
11ac VHT80 (NII)	5775	9.81	9.57	4.91	3.10	0.0059

Based on safety distance (r) **20cm**, the antenna gain (G) is **2.92 Numerical**, and the highest power output (P) is **22.44mW**, the power density (S) is **0.0131mW/cm^2**.