YEONWHA M TECH CO.,LTD

#141, 201 Haan-3dong, Gwangmyeong-si, Gyeonggi-do, Korea

RF EXPOSURE EVALUATION

FCC KDB 447498 D01 General RF Exposure Guidance v05 (October 24, 2012)

Appendix A SAR Test Exclusion Thresholds for 100 MHz – 6GHz and \leq 50 mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table.

Approximate SAR 1						
MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
	27		82		137	SAR Test Exclusion Threshold (mW)
300		55		110		
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150						
130	232	271	310	349	387	
300	232 164	271 192	310 290	349 246	387 274	
300	164	192	290	246	274	
300 450	164 134	192 157	290 179	246 201	274 224	SAR Test
300 450 835	164 134 98	192 157 115	290 179 131	246 201 148	274 224 164	Exclusion
300 450 835 900	164 134 98 95	192 157 115 111	290 179 131 126	246 201 148 142	274 224 164 158	Exclusion Threshold
300 450 835 900 1500	164 134 98 95 73	192 157 115 111 86	290 179 131 126 98	246 201 148 142 110	274 224 164 158 122	Exclusion
300 450 835 900 1500 1900	164 134 98 95 73 65	192 157 115 111 86 76	290 179 131 126 98 87	246 201 148 142 110 98	274 224 164 158 122 109	Exclusion Threshold
300 450 835 900 1500 1900 2450	164 134 98 95 73 65 57	192 157 115 111 86 76 67	290 179 131 126 98 87 77	246 201 148 142 110 98 86	274 224 164 158 122 109 96	Exclusion Threshold
300 450 835 900 1500 1900 2450 3600	164 134 98 95 73 65 57 47	192 157 115 111 86 76 67 55	290 179 131 126 98 87 77 63	246 201 148 142 110 98 86 71	274 224 164 158 122 109 96 79	Exclusion Threshold

• Portable PTT devices

.When the occupational exposure limit applies, these power thresholds are increased by a factor of five (5) to determine the test requirements. SAR is required for PTT devices with maximum output power greater than these thresholds..

(Contunued)

Results 1 – Speak mode: Manufacturer declares RF Safety Distance of 30mm (232mW // on Appendix A)

232 (mW) *
$$5 = 1,160$$
 (mW) = SAR Test Exclusion Threshold

In General Duty cycle of PTT device is 50%,

$$1,945 \text{ (mW)} * 0.5 = 972.5 \text{ (mW)} < 1,160 \text{ (mW)}$$

Results 2 - Body Worn: Manufacturer declares RF Safety Distance of 30mm (232mW // on Appendix A)

$$232 \text{ (mW)} * 5 = 1,160 \text{ (mW)} = SAR \text{ Test Exclusion Threshold}$$

In General Duty cycle of PTT device is 50%,

$$1,945 \text{ (mW)} * 0.5 = 972.5 \text{ (mW)} < 1,160 \text{ (mW)}$$

Please refer to Users Manual for details of RF Exposure Information and Label Information.

(Continued)



