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Appendix I- RF Exposure statement

Exposure Requirements - FCC KDB # 447498 D01

FCC KDB # 447498 D01 V06 – RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES, Appendix A shows that the SAR Text Exclusion Threshold for a device with a separation distance of 5 mm at 2450MHz is 10mW.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
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	232	271	310	349	387	
300						
300	164	192	219	246	274	
450	164 134	192 157	219 179	246 201	274 224	
450	134	157	179	201	224	
450 835	134 98	157 115	179 131	201 148	224 164	SAR Test
450 835 900	134 98 95	157 115 111	179 131 126	201 148 142	224 164 158	Exclusion
450 835 900 1500	134 98 95 73	157 115 111 86	179 131 126 98	201 148 142 110	224 164 158 122	
450 835 900 1500 1900	134 98 95 73 65	157 115 111 86 76	179 131 126 98 87	201 148 142 110 98	224 164 158 122 109	Exclusion
450 835 900 1500 1900 2450	134 98 95 73 65 57	157 115 111 86 76 67	179 131 126 98 87 77	201 148 142 110 98 86	224 164 158 122 109 96	Exclusion
450 835 900 1500 1900 2450 3600	134 98 95 73 65 57 47	157 115 111 86 76 67 55	179 131 126 98 87 77 63	201 148 142 110 98 86 71	224 164 158 122 109 96 79	Exclusion



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MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	
150	387	397	407	417	427	437	447	457	467	477	487	497	507	517	527	
300	274	294	314	334	354	374	394	414	434	454	474	494	514	534	554	
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	
835	164	220	275	331	387	442	498	554	609	665	721	776	832	888	943	
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	
1500	122	222	322	422	522	622	722	822	922	1022	1122	1222	1322	1422	1522	mW
1900	109	209	309	409	509	609	709	809	909	1009	1109	1209	1309	1409	1509	
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	
3600	79	179	279	379	479	579	679	779	879	979	1079	1179	1279	1379	1479	
5200	66	166	266	366	466	566	666	766	866	966	1066	1166	1266	1366	1466	

RSS-102 section 2.5.1 Exemption Limits for Routine Evaluation, Table 1 shows the SAR evaluation for a device with a separation distance of 5mm at 2450MHz is 4mW.

 ${\bf Table~1:~SAR~evaluation-Exemption~limits~for~routine~evaluation~based} \\ {\bf on~frequency~and~separation~distance}^{4,5}$

Frequency	Exemption Limits (mW)								
(MHz)	At separation distance of	At separation distance of	At separation distance of	At separation distance of	At separation distance of				
	≤5 mm	10 mm	15 mm	20 mm	25 mm				
≤300	71 mW	$101 \mathrm{mW}$	132 mW	162 mW	193 mW				
450	52 mW	70 mW	88 mW	106 mW	123 mW				
835	17 mW	30 mW	42 mW	55 mW	67 mW				
1900	7 mW	10 mW	18 mW	34 mW	60 mW				
2450	4 mW	7 mW	15 mW	30 mW	52 mW				
3500	2 mW	6 mW	16 mW	32 mW	55 mW				
5800	1 mW	6 mW	15 mW	27 mW	41 mW				

Frequency	Exemption Limits (mW)								
(MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm				
≤300	223 mW	254 mW	284 mW	315 mW	345 mW				
450	141 mW	159 mW	177 mW	195 mW	213 mW				
835	80 mW	92 mW	105 mW	117 mW	130 mW				
1900	99 mW	153 mW	225 mW	316 mW	431 mW				
2450	83 mW	123 mW	173 mW	235 mW	309 mW				
3500	86 mW	124 mW	170 mW	225 mW	290 mW				
5800	56 mW	71 mW	85 mW	97 mW	106 mW				



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The maximum measured transmitter power is the following:

Freq. [GHz]	Maximum Conducted Peak Output Power [dBm]	Maximum Conducted Peak Output Power [mW]	Antenna Gain [dBi]	Maximum E.I.R.P [dBm]	Maximum E.I.R.P [mW]
2.48	4.019	2.523	-3.07	0.949	1.244

Evaluation for FCC

The maximum conducted peak output power of the EUT is: 2.523mW It is below the exemption limit 10mW at distance 5mm. And the distance from the antenna to human will be much higher than 5mm in normal

Evaluation for IC

using.

The maximum conducted peak output power of the EUT is: 2.523mW The maximum E.I.R.P of the EUT is: 1.244mW

It is below the exemption limit 4mW at distance 5mm.

And the distance from the antenna to human will be much higher than 5mm in normal using.

Conclusion

SAR data is not required for either FCC or IC.