IC: 29136-JLM

RF EXPOSURE EVALUATION

According to RSS102 Issue 5 March 2015: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in section 2.5.2.

Limits for Maximum Permissible Exposure (MPE)

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

A below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
B at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
C at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
D at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2}\ f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
E at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.
Note:

Frequency	Exemption limits(W)
2402	1.31*10^-2*2402^0.6834=2.6764
2440	1.31*10^-2*2440^0.6834=2.7053
2480	1.31*10^-2*2480^0.6834=2.7355
2412	1.31*10^-2*2412^0.6834=2.6840
2437	1.31*10^-2*2437^0.6834=2.7030
2462	1.31*10^-2*2462^0.6834=2.7219
2422	1.31*10^-2*2422^0.6834=2.6916
2452	1.31*10^-2*2452^0.6834=2.7144

Measurement Result:

Antenna gain: -0.68dBi

BT:

Mode	Channel Freq. (MHz)	Maximum Peak Output Power(dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (W)	Limits (W)
GFSK	2402	1.28	1±1	2	0.0016	2.6764
	2441	0.54	0±1	1	0.0013	2.7060
	2480	-0.80	(-1)±1	0	0.0010	2.7355
π/4-DQPSK	2402	3.67	3±1	4	0.0025	2.6764
	2441	2.92	2±1	3	0.0020	2.7060
	2480	1.53	1±1	2	0.0016	2.7355
8-DPSK	2402	4.48	4±1	5	0.0032	2.6764
	2441	3.58	3±1	4	0.0025	2.7060
	2480	2.14	2±1	3	0.0020	2.7355

Conclusion:
For the max result : 0.0032≤ 2.6840 for IC SAR, No RF exposure evaluation is required.

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