Statement for RF Exposure

Order No.	:	10169391H
Applicant	:	FUJITSU TEN LIMITED
Type of Equipment	:	Radio Detection and Ranging Device for Vehicle
Model No. Test standard	:	FT0047A FCC Part 15 Subpart C: 2012 Section 15.253(g) RSS-Gen Issue 3: 2010 +Notice 2012-DRS0126 RSS-210 Issue 8: December 2010
Test result	:	Complied

[FCC rule]

§1.1310 Radiofrequency radiation exposure limits.

The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occ	upational/Controlled Expo	osures		
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for Gene	eral Population/Uncontrol	led Exposure		
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	$*(180/f^2)$	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

	Table 1—Li	imits for	Maximum	Permissible	Exposure	(MPE)
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f = frequency in MHz

* = Plane-wave equivalent power density

Note 1 to Table 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

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[IC rule] RSS-102 §4 Exposure Limits

For the purpose of this standard, Industry Canada has adopted the SAR and RF field strength limits established in Health Canada's RF exposure guideline, Safety Code 6.

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Averaging Time (minutes)
0.003-1	280	2.19	-	6
1-10	280/f	2.19/f	-	6
10-30	28	2.19/f	-	6
30-300	28	0.073	2*	6
300-1500	$1.585f^{0.5}$	$0.0042 f^{0.5}$	<i>f</i> /150	6
1500-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/f ^{1.2}
150000-300000	$0.158 f^{0.5}$	$4.21 \ge 10^{-4} f^{0.5}$	6.67 x 10 ⁻⁵ f	616000/f ^{1.2}

§4.2 RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Note: *f* is frequency in MHz.

* Power density limit is applicable at frequencies greater than 100 MHz.

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[Results]

Mode	Peak EIRP		Duty	Average EIRP	
			Factor	(Peak with Du	ty Factor)
	[dBm]	[mW]	[dB]	[dBm]	[mW]
Tx 1 + Tx 3	27.69	587.3	-5.93	21.76	149.8
Tx 2 + Tx 4	27.34	542.0	-5.93	21.41	138.3

Separation	FCC	,	IC	
Distance	Power Density	Limit	Power Density	Limit
	Result		Result	
[cm]	[mW/cm2]	[mW/cm2]	[W/m2]	[W/m2]
20	0.030	1	0.298	10

Calculating formula:

Average EIRP = Peak EIRP + Duty Factor Power Density Result = Average EIRP / (4 * Pi * Separation Distance ^ 2)

These EIRP were measured in sufficient far field of 3m distance and calculated at 20cm.