Report No.: 17A110202R-FR FCC ID: ELVNTRRG

RF Exposure Evaluation

E.U.T.: Transceiver

Model Number: 1512

Applicant: Nutek Corporation

Address: No.167, Lane 235, Bauchiau Rd., Xindian District,

New Taipei City 23145, Taiwan

Issued By: Interocean EMC Technology Corp.

LAB Location: No. 5-2, Lin 1, Tin-Fu, Lin-Kou Dist., New Taipei City,

Taiwan 244, R.O.C.

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Project Engineer:

Elli Chang

Approved:

Jerry Liu

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1 RF Exposure Evaluation

Portable Device

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498_D01_V06 4.3.1(a) SAR exclusion thresholds by: [max. power of channel, including tune-up tolerance, mW]/(min, test separation distances, mm)]*[$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

Maximum measured transmitter power

Frequency Range (MHz)	Continuous transmit power (dBm)	Duty Cycle (dB)	Transmit power (dBm)	Tune-up power tolerance (dB)	Total Maximum power	
					(dBm)	(mW)
909.6	14.36	-6.05	8.31	(±)2	10.31	10.74
915.6	13.73	-6.05	7.68	(±)2	9.68	9.29

 $(10.74/5)*(\sqrt{0.9096}) = 2.049 \le 7.5$

Conclusion:

No SAR is required.

SIMULTANEOUS TRANSMISSION EVALUATION

N/A

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Duty Cycle Calculation

Duty cycle factor in dB = $20 \log (duty cycle) = 20 \log (Ton/Tp)$

The duration of one cycle = 301.1ms

The transmission time of one cycle = 149.9ms

Duty Cycle = 149.9 ms / 301.1ms = 0.49784

Therefore, the duty cycle factor is found by $20 \log 0.49784 = -6.05 dB$



