

FCC RF Exposure Report

FCC ID : 2AD8UFTHF01

Equipment : Single Band UE Relay

Model No. : FTHF

Brand Name : Nokia

Applicant : Nokia Solutions and Networks, OY

Address : 1455 W Shure Drive Arlington Heights, Illinois

United States 60004

Standard : 47 CFR FCC Part 2.1091

Received Date : Jul. 27, 2016

Tested Date : Aug. 10 ~ Aug. 12, 2016

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: Approved by:

Along Chen / Assistant Manager Gary Chang / Manager

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date		
FA672702	Rev. 01	Initial issue	Sep. 19, 2016		

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1 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 21 cm or more from persons.

1.1 LIMITS

Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Power Density (mW /cm²)	Averaging Time (minutes)
300~1500	F/300	6
1500~100000	5	6

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Power Density (mW /cm²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1	30

1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm²

Pt= EIRP in mW Pi= 3.1416

R= Measurement distance

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1.3 MPE EVALUATION RESULTS

For General Population/Uncontrolled Exposure

Mode	Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limits (mW/cm²)
	2630.0	22.94	11	21	0.447	1
LTE Band 41	2655.0	24.01	11	21	0.572	1
	2680.0	23.84	11	21	0.550	1

1.4 SEPERATION DISTANCE BOUNDARY LIMITS

Mode	Range (MHz) Co	Maximum Conducted	Antenna Gain (dBi)	General Population /Uncontrolled Exposure		Occupational/Controll ed Exposure	
		Power (dBm)		Distance (cm)	Limits (mW/cm ²)	Distance (cm)	Limits (mW/cm²)
	2630.0	22.94	11	14.041	1	6.279	5
LTE Band 41	2655.0	24.01	11	15.882	1	7.102	5
	2680.0	23.84	11	15.574	1	6.965	5

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2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640 No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City,

Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666 Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

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