

RF-EXPOSURE ASSESSMENT REPORT

FCC 47 CFR Part 2.1091 Industry Canada RSS-102

RF-Exposure evaluation of mobile equipment

Report Reference No...... G0M-1607-5773-TFC091ME-V01

Testing Laboratory Eurofins Product Service GmbH

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Accreditation....:



A2LA Accredited Testing Laboratory, Certificate No.: 1983.01

FCC Filed Test Laboratory, Reg.-No.: 96970

IC OATS Filing assigned code: 3470A

Applicant's name FALCOM GmbH

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GERMANY

Test specification:

Standard 47 CFR 2.1091

KDB 447498 D01 v06:2015-10-23

RSS-102, Issue 5:2015-03

Equipment under test (EUT):

Product description UMTS/GSM/GPS/LTE-Device

Model No. FOX3-4G-NA

Additional Model(s) None

Brand Name(s) None

Hardware version P281_Rev03c

Firmware / Software version 3.0.4

FCC-ID: QIXFOX3-4G-NA IC: 5383A-FOX34GNA

Test result Passed



Possible test case verdicts:

- neither assessed nor tested: N/N

- required by standard but not appl. to test object......: N/A

- required by standard but not tested...... N/T

- not required by standard for the test object N/R

- test object does meet the requirement...... P (Pass)

- test object does not meet the requirement...... F (Fail)

Testing:

Test Lab Temperature 20 – 23 °C

Date of receipt of test item 2016-10-07

Date (s) of assessment 2017-01-23

Compiled by: Toralf Jahn

(Responsible for Assessment)

Approved by (+ signature): Christian Weber

(Head of Lab)

Date of issue 2017-01-23

Total number of pages: 19

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:



Version History

Version	Issue Date	Remarks	Revised by
01	2013-07-01	Initial Release	



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1 Equipment (Test item) Description

Description	UMTS/GSM/GPS/LTE-Device
Model	FOX3-4G-NA
Additional Model(s)	None
Brand Name(s)	None
Serial number	None
Hardware version	P281_Rev03c
Software / Firmware version	3.0.4
PMN	TRACKING UNIT
HVIN	FOX3-4G-NA
FVIN	None
HMN	None
FCC-ID	QIXFOX3-4G-NA
IC	5383A-FOX34GNA
Equipment type	End product



1.1 Reference Documents

Document type Document No.		Issued by	Date
FCC 22H/24E Test Report	G0M-1607-5773-TFC224UL-V02	Eurofins Product Service GmbH	2017-01-23
FCC 27 Test Report	G0M-1607-5773-TFC227UL-V02	Eurofins Product Service GmbH	2017-01-23



1.2 Standalone Radiation Sources

Mode #	Description		
	Transmit frequency range [MHz]	1850 - 1910	
	Modulations	QPSK	
	Maximum conducted power [dBm]	25.7	
UMTS FDDII	Maximum radiated power [dBm e.i.r.p.]	27.7	
ווטטא 19 ווטטא	Maximum transmission duty cycle [%]	100	
	Antenna gain [dBi]	2	
	Antenna diameter [cm]	8	
	Assessment Frequency [MHz]	1880	
	Transmit frequency range [MHz]	1710 - 1755	
	Modulations	QPSK	
	Maximum conducted power [dBm]	25.7	
UMTS FDDIV	Maximum radiated power [dBm e.i.r.p.]	27.7	
OWIS FUDIV	Maximum transmission duty cycle [%]	100	
	Antenna gain [dBi]	2	
	Antenna diameter [cm]	8	
	Assessment Frequency [MHz]	1732.5	
	Transmit frequency range [MHz]	824 - 849	
	Modulations	QPSK	
	Maximum conducted power [dBm]	25.7	
UMTS FDDV	Maximum radiated power [dBm e.i.r.p.]	27.7	
OIVITO FUDV	Maximum transmission duty cycle [%]	100	
	Antenna gain [dBi]	2	
	Antenna diameter [cm]	8	
	Assessment Frequency [MHz]	836.5	



Mode #	Description			
	Transmit frequency range [MHz]	1850 - 1910		
	Modulations	QPSK		
	Maximum conducted power [dBm]	25.7		
LTE EDDO	Maximum radiated power [dBm e.i.r.p.]	27.7		
LTE FDD2	Maximum transmission duty cycle [%]	100		
	Antenna gain [dBi]	2		
	Antenna diameter [cm]	8		
	Assessment Frequency [MHz]	1880		
	Transmit frequency range [MHz]	1710 - 17555		
	Modulations	QPSK		
	Maximum conducted power [dBm]	25.7		
LTE EDD4	Maximum radiated power [dBm e.i.r.p.]	27.7		
LTE FDD4	Maximum transmission duty cycle [%]	100		
	Antenna gain [dBi]	2		
	Antenna diameter [cm]	8		
	Assessment Frequency [MHz]	1732.5		
	Transmit frequency range [MHz]	824 - 849		
	Modulations	QPSK		
	Maximum conducted power [dBm]	25.7		
LTE FDD5	Maximum radiated power [dBm e.i.r.p.]	27.7		
LIE FUUS	Maximum transmission duty cycle [%]	100		
	Antenna gain [dBi]	2		
	Antenna diameter [cm]	8		
	Assessment Frequency [MHz]	836.5		
	Transmit frequency range [MHz]	704 - 716		
	Modulations	QPSK		
	Maximum conducted power [dBm]	25.7		
TE EDD47	Maximum radiated power [dBm e.i.r.p.]	27.7		
LTE FDD17	Maximum transmission duty cycle [%]	100		
	Antenna gain [dBi]	2		
	Antenna diameter [cm]	8		
	Assessment Frequency [MHz]	710		



2 Result Summary

FCC 47 CFR Part 2.1091, IC RSS-102					
Product Specific Standard Section Requirement Result Remarks					
47 CFR 2.1091	Maximum permissible exposure @ 20cm below limit	PASS			
RSS-102 2.5.2 Maximum permissible exposure @ 20cm below limit PASS					
Remarks:					



3 RF-Exposure Classifications

Device Types			
Fixed	A fixed device is defined as a device physically secured at one fixed location and cannot be easily re-located.		
Mobile	A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. (47 CFR 2.1091)		
Portable	A portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user. (47 CFR 2.1093)		
	Exposure Categories		
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.		
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 cannot exercise control over their exposure.		



4 Assessment

4.1 MPE Assessment Conditions – 47 CFR 2.1091 / RSS-102

Assessment according to reference Device type		Reference Method		
		FCC OET Bulleti	n 65 / RSS-102 & Sa	fety Code 6
			mobile	
Exposure cat	egory		General public	
	IC Limits – O	ccupational / Controll	ed Exposure	
Frequency range [MHz]	Electric field strength [V/M		Power density [W/m²]	Averaging time [min]
0.003-10*	170	180	-	Instantaneous*
0.1-10	-	1.6 / f	-	6**
1.29-10	193 / f ^{0.5}	-	-	6**
10-20	61.4	0.163	-10	6
20-48	129.8 / f ^{0.25}	0.3444 / f ^{0.25}	44.72 / f ^{0.5}	6
48-100	49.33	0.1309	6.455	6
100-6000	15.60 f ^{0.25}	0.04138 f ^{0.25}	0.6455 f ^{0.5}	6
6000-15000	137	0.364	50	6
15000-150000	137	0.364	50	616000 / f ^{1.2}
150000-300000	0.354 f ^{0.5}	9.40 x 10 ⁻⁴ f ^{0.5}	3.33 x 10 ⁻⁴ f	616000 / f ^{1.2}
IC	Limits – Gener	al Population / Uncon	trolled Exposure	
Frequency range [MHz]	Electric field strength [V/M		Power density [W/m²]	Averaging time [min]
0.003-10*	83	90	-	Instantaneous
0.1-10	-	0.73 / f	-	6**
1.1-10	87 / f ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07 / f ^{0.25}	0.1540 / f ^{0.25}	8.944 / f ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 f ^{0.3417}	$0.008335 f^{0.3417}$	0.02619 f ^{0.6834}	6
6000-15000	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 x 10 ⁻⁴ f ^{0.5}	6.67 x 10 ⁻⁵ f	616000 /f ^{1.2}



Product Service

FCC Limits – Occupational / Controlled Exposure					
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [mW/cm ²]	Averaging time [min]	
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	N/A	N/A	f / 300	6	
1500 - 100000	N/A	N/A	5.0	6	
FCC Limits – General Population / Uncontrolled Exposure					

1 00 Linits - General i Opulation / Officontrolled Exposure					
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [mW/cm ²]	Averaging time [min]	
0.3 – 1.34	614	1.63	(100)*	30	
1.34 - 30	842 / f	2.19 / f	(180 / f ²)*	30	
30 - 300	27.5	0.073	0.2	30	
300 - 1500	N/A	N/A	f / 1500	30	

^{* =} Plane wave equivalent power density; f in MHz

N/A

1500 - 100000

Assessment Relations

N/A

1.0

$$\lambda[m] = \frac{c\left[\frac{m}{S}\right]}{f[Hz]}; R_{FF}[m] \ge \frac{2 \cdot D[m]^2}{\lambda[m]}$$

$$S[mW/cm^2] = \frac{P_{E.I.R.P.}[mW]}{4\pi R[cm]^2}$$
; $R[cm] = \sqrt{\frac{P_{E.I.R.P.}[mW]}{4\pi S[mW/cm^2]}}$

$$P_R[mW] = P_C[mW] \cdot G \; ; \; P_R[dBm] = P_C[dBm] + G[dBi]$$

$$DCC[dB] = 10 \cdot Log_{10} \left(\frac{DC[\%]}{100} \right)$$

Assessment procedure

For each radio and frequency band the worst case transmission mode with the highest peak conducted or radiated power is evaluated at the frequency that results in the most restrictive rf-exposure limit. From the peak power values, antenna gains and duty cycles taken from the reference documents, the source average radiated power values are calculated. From the average radiated power the power densities at antenna far-field distance, at 20cm separation distance from the radiation source is calculated. Compliance with the RF-Exposure limit is determined at 20cm separation distance.

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4.2 Single-Transmitter Assessment – 47 CFR 2.1091 / RSS-102

Assessment result - UMTS FDDII				
Transmission mode				
Operating mode frequency range [MHz]	1850) - 1910		
Assessment frequency (f) [MHz]	1	880		
Transmission duty cycle (DC) [%]		100		
Peak conducted power (P _C) [dBm]	2	25.7		
Peak radiated power (P _R) [dBm e.i.r.p.]	2	27.7		
Peak Antenna gain (G) [dBi]		2		
Maximum Antenna Diameter D [cm]		8		
Antenna far-field distance				
Transmission frequency wavelength (λ)	0.160 m	15.96 cm		
Antenna far-field distance (R _{FF})	0.080 m	8.02 cm		
Power evaluation				
Peak conducted power (P _C)	371.54 mW	25.70 dBm		
Peak Antenna Gain (G)	1.58	2.00 dBi		
Calculated peak radiated power (P _{R-Calc})	588.84 mW	27.70 dBm		
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm		
Source average Power				
Maximum transmission duty cycle (DC)	10	0.0 %		
Duty cycle correction (DCC)	1.00	0.00 dB		
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm		
Averaged peak radiated power (P _{RAVG})	588.84 mW	27.70 dBm		
Power density				
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²		
Compliance power density limit IC	0.453 mW/cm ²	4.53 W/m ²		
Power density @ Antenna far-field distance	0.728 mW/cm ²	7.283 W/m ²		
Power density @ 20cm	0.117 mW/cm ²	1.171 W/m ²		
Distance for compliance power density FCC	0.068 m	6.85 cm		
Distance for compliance power density IC	0.102 m	10.18 cm		
Verdict				
The power density of the EUT	at 20cm is below the FCC	MPE limit!		
The power density of the EUT	at 20cm is below the IC	MPE limit!		
Comments:				



Assessment result - UMTS FDDIV		
Transmission mode		
Operating mode frequency range [MHz]	1710	- 1755
Assessment frequency (f) [MHz]	1732.5	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	25.7	
Peak radiated power (P _R) [dBm e.i.r.p.]	27.7	
Peak Antenna gain (G) [dBi]	2	
Maximum Antenna Diameter D [cm]	8	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.173 m	17.32 cm
Antenna far-field distance (R _{FF})	0.074 m	7.39 cm
Power evaluation	<u>.</u>	
Peak conducted power (P _C)	371.54 mW	25.70 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	588.84 mW	27.70 dBm
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Source average Power		
Maximum transmission duty cycle (DC)	100.0 %	
Duty cycle correction (DCC)	1.00	0.00 dB
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Averaged peak radiated power (P _{RAVG})	588.84 mW	27.70 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.428 mW/cm ²	4.28 W/m ²
Power density @ Antenna far-field distance	0.858 mW/cm ²	8.576 W/m ²
Power density @ 20cm	0.117 mW/cm ²	1.171 W/m ²
Distance for compliance power density FCC	0.068 m	6.85 cm
Distance for compliance power density IC	0.105 m	10.46 cm
Verdict		
The power density of the EUT	at 20cm is below the FCC	MPE limit!
The power density of the EUT	at 20cm is below the IC N	MPE limit!
Comments:		



Assessment result - UMTS FDDV		
Transmission mode		
Operating mode frequency range [MHz]	824 - 849	
Assessment frequency (f) [MHz]	8	36.5
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	25.7	
Peak radiated power (P _R) [dBm e.i.r.p.]	27.7	
Peak Antenna gain (G) [dBi]	2	
Maximum Antenna Diameter D [cm]	8	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.359 m	35.86 cm
Antenna far-field distance (R _{FF})	0.036 m	3.57 cm
Power evaluation		
Peak conducted power (P _C)	371.54 mW	25.70 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	588.84 mW	27.70 dBm
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Source average Power		
Maximum transmission duty cycle (DC)	100.0 %	
Duty cycle correction (DCC)	1.00	0.00 dB
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Averaged peak radiated power (P _{RAVG})	588.84 mW	27.70 dBm
Power density		
Compliance power density limit FCC	0.558 mW/cm ²	5.58 W/m ²
Compliance power density limit IC	0.260 mW/cm ²	2.60 W/m ²
Power density @ Antenna far-field distance	3.679 mW/cm ²	36.786 W/m ²
Power density @ 20cm	0.117 mW/cm ²	1.171 W/m ²
Distance for compliance power density FCC	0.092 m	9.17 cm
Distance for compliance power density IC	0.134 m	13.42 cm
Verdict		
The power density of the EUT	at 20cm is below the FCC	MPE limit!
The power density of the EUT	at 20cm is below the IC I	MPE limit!
Comments:		



Assessment result - LTE FDD2		
Transmission mode		
Operating mode frequency range [MHz]	1850 - 1910	
Assessment frequency (f) [MHz]	1	880
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	25.7	
Peak radiated power (P _R) [dBm e.i.r.p.]	27.7	
Peak Antenna gain (G) [dBi]	2	
Maximum Antenna Diameter D [cm]	8	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.160 m	15.96 cm
Antenna far-field distance (R _{FF})	0.080 m	8.02 cm
Power evaluation		
Peak conducted power (P _C)	371.54 mW	25.70 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	588.84 mW	27.70 dBm
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Source average Power		
Maximum transmission duty cycle (DC)	100.0 %	
Duty cycle correction (DCC)	1.00	0.00 dB
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Averaged peak radiated power (P _{RAVG})	588.84 mW	27.70 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.453 mW/cm ²	4.53 W/m ²
Power density @ Antenna far-field distance	0.728 mW/cm ²	7.283 W/m ²
Power density @ 20cm	0.117 mW/cm ²	1.171 W/m ²
Distance for compliance power density FCC	0.068 m	6.85 cm
Distance for compliance power density IC	0.102 m	10.18 cm
Verdict		
The power density of the EUT	at 20cm is below the FCC	MPE limit!
The power density of the EUT	at 20cm is below the IC I	MPE limit!
Comments:		



Assessment result - LTE FDD4		
Transmission mode		
Operating mode frequency range [MHz]	1710 - 17555	
Assessment frequency (f) [MHz]	1732.5	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	25.7	
Peak radiated power (P _R) [dBm e.i.r.p.]	27.7	
Peak Antenna gain (G) [dBi]	2	
Maximum Antenna Diameter D [cm]	8	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.173 m	17.32 cm
Antenna far-field distance (R _{FF})	0.074 m	7.39 cm
Power evaluation		
Peak conducted power (P _C)	371.54 mW	25.70 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	588.84 mW	27.70 dBm
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Source average Power		
Maximum transmission duty cycle (DC)	100.0 %	
Duty cycle correction (DCC)	1.00	0.00 dB
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Averaged peak radiated power (P _{RAVG})	588.84 mW	27.70 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.428 mW/cm ²	4.28 W/m ²
Power density @ Antenna far-field distance	0.858 mW/cm ²	8.576 W/m ²
Power density @ 20cm	0.117 mW/cm ²	1.171 W/m ²
Distance for compliance power density FCC	0.068 m	6.85 cm
Distance for compliance power density IC	0.105 m	10.46 cm
Verdict		
The power density of the EUT	at 20cm is below the FCC	MPE limit!
The power density of the EUT	at 20cm is below the IC M	IPE limit!
Comments:		



Assessment result - LTE FDD5		
Transmission mode		
Operating mode frequency range [MHz]	824 - 849	
Assessment frequency (f) [MHz]	836.5	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	25.7	
Peak radiated power (P _R) [dBm e.i.r.p.]	27.7	
Peak Antenna gain (G) [dBi]	2	
Maximum Antenna Diameter D [cm]	8	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.359 m	35.86 cm
Antenna far-field distance (R _{FF})	0.036 m	3.57 cm
Power evaluation		
Peak conducted power (P _C)	371.54 mW	25.70 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	588.84 mW	27.70 dBm
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Source average Power	·	
Maximum transmission duty cycle (DC)	100.0 %	
Duty cycle correction (DCC)	1.00	0.00 dB
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Averaged peak radiated power (P _{RAVG})	588.84 mW	27.70 dBm
Power density	<u>.</u>	
Compliance power density limit FCC	0.558 mW/cm ²	5.58 W/m ²
Compliance power density limit IC	0.260 mW/cm ²	2.60 W/m ²
Power density @ Antenna far-field distance	3.679 mW/cm ²	36.786 W/m ²
Power density @ 20cm	0.117 mW/cm ²	1.171 W/m ²
Distance for compliance power density FCC	0.092 m	9.17 cm
Distance for compliance power density IC	0.134 m	13.42 cm
Verdict		
The power density of the EUT a	at 20cm is below the FCC	MPE limit!
The power density of the EUT	at 20cm is below the IC M	MPE limit!
Comments:		



Assessment result - LTE FDD17		
Transmission mode		
Operating mode frequency range [MHz]	704	4 - 716
Assessment frequency (f) [MHz]	710	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	25.7	
Peak radiated power (P _R) [dBm e.i.r.p.]	27.7	
Peak Antenna gain (G) [dBi]	2	
Maximum Antenna Diameter D [cm]	8	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.423 m	42.25 cm
Antenna far-field distance (R _{FF})	0.030 m	3.03 cm
Power evaluation		
Peak conducted power (P _C)	371.54 mW	25.70 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	588.84 mW	27.70 dBm
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Source average Power		
Maximum transmission duty cycle (DC)	100.0 %	
Duty cycle correction (DCC)	1.00	0.00 dB
Measured peak radiated power (P _R)	588.84 mW	27.70 dBm
Averaged peak radiated power (P _{RAVG})	588.84 mW	27.70 dBm
Power density		
Compliance power density limit FCC	0.473 mW/cm ²	4.73 W/m ²
Compliance power density limit IC	0.233 mW/cm ²	2.33 W/m ²
Power density @ Antenna far-field distance	5.106 mW/cm ²	51.062 W/m ²
Power density @ 20cm	0.117 mW/cm ²	1.171 W/m ²
Distance for compliance power density FCC	0.099 m	9.95 cm
Distance for compliance power density IC	0.142 m	14.19 cm
Verdict		
The power density of the EUT	at 20cm is below the FCC	MPE limit!
The power density of the EUT	at 20cm is below the IC N	MPE limit!
Comments:		