



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
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Accreditation	<div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: center; margin-top: 5px;"> A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A </p>
Applicant's name	FALCOM GmbH
Address.....	Gewerbering 6 98704 Langewiesen 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

Test Lab Humidity : 32 – 38 %

Date of receipt of test item : 2016-10-07

Date (s) of assessment : 2017-01-23

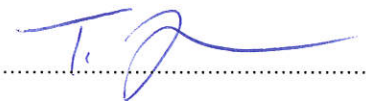
Compiled by : Toralf Jahn


Assessed by (+ signature) : 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.

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

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

MPE ASSESSMENT ACC. TO 47 CFR 2.1091 / IC RSS-102				VERDICT: PASS
Assessment according to reference		Reference Method		
		FCC OET Bulletin 65 / RSS-102 & Safety Code 6		
Device type		mobile		
Exposure category		General public		
IC Limits – Occupational / Controlled Exposure				
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [W/m ²]	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 – General Population / Uncontrolled Exposure				
Frequency range [MHz]	Electric field strength [V/M]	Magnetic field strength [A/M]	Power density [W/m ²]	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 / $f^{1.2}$
* = Based on nerve stimulation				
** = Bases on specific absorption rate				

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				
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
1500 - 100000	N/A	N/A	1.0	30
* = Plane wave equivalent power density; f in MHz				
Assessment Relations				
$\lambda[m] = \frac{c \left[\frac{m}{s} \right]}{f[Hz]} ; R_{FF}[m] \geq \frac{2 \cdot D[m]^2}{\lambda[m]}$ $S[mW/cm^2] = \frac{P_{E.I.R.P.}[mW]}{4\pi R[cm]^2} ; R[cm] = \sqrt{\frac{P_{E.I.R.P.}[mW]}{4\pi S[mW/cm^2]}}$ $P_R[mW] = P_C[mW] \cdot G ; P_R[dBm] = P_C[dBm] + G[dBi]$ $DCC [dB] = 10 \cdot \text{Log}_{10} \left(\frac{DC[\%]}{100} \right)$				
Assessment procedure				
<p>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.</p>				

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]	1880	
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 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		
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 MPE limit!		
Comments:		

Assessment result - UMTS FDDV		
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		
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 MPE limit!		
Comments:		

Assessment result - LTE FDD2		
Transmission mode		
Operating mode frequency range [MHz]	1850 - 1910	
Assessment frequency (f) [MHz]	1880	
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 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 MPE 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		
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 MPE limit!		
Comments:		

Assessment result - LTE FDD17		
Transmission mode		
Operating mode frequency range [MHz]	704 - 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 MPE limit!		
Comments:		