

RF-EXPOSURE ASSESSMENT REPORT

FCC 47 CFR Part 2.1091
Industry Canada RSS-102

RF-Exposure evaluation of mobile equipment

Report Reference No.: G0M-1607-5772-TFC091ME-V01

Testing Laboratory: Eurofins Product Service GmbH

Address: Storkower Str. 38c
15526 Reichenwalde
Germany

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-Device	
Model No.	FOX3-KMD	
Additional Model(s)	None	
Brand Name(s)	None	
Hardware version	O_102_Rev02b	
Firmware / Software version	3.0.4	
	FCC-ID: QIXFOX3-KMD	IC: 5383A-FOX3KMD

Test result: Passed

Test Report No.: G0M-1607-5772-TFC091ME-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

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: 2016-08-23

Date (s) of assessment: 2011-11-09

Compiled by: Christian Weber

Assessed by (+ signature): Matthias Handrik
(Responsible for Assessment)

Approved by (+ signature): Christian Weber
(Head of Lab)

Date of issue: 2016-11-09

Total number of pages: 22



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	2016-11-09	Initial Release	

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1 Equipment (Test item) Description

Description	UMTS/GSM/GPS-Device
Model	FOX3-KMD
Additional Model(s)	None
Brand Name(s)	None
Serial number	None
Hardware version	O_102_Rev02b
Software / Firmware version	3.0.4
PMN	N/A
HVIN	FOX3-KMD
FVIN	N/A
HMN	N/A
FCC-ID	QIXFOX3-KMD
IC	5383A-FOX3KMD
Equipment type	End product

1.1 Reference Documents

Document type	Document No.	Issued by	Date
FCC 22H/24E Test Report	G0M-1607-5772-TFC224GS-V01	Eurofins Product Service GmbH	2016-10-27
FCC 22H/24E Test Report	G0M-1607-5772-TFC224U-V01	Eurofins Product Service GmbH	2016-10-26
FCC 15.247 Test Report	G0M-1607-5772-TFC247BL-V01	Eurofins Product Service GmbH	2016-10-27
FCC 15.247 Test Report	SZ13110156W02	Shenzhen Morlab Communications Technology Co., Ltd.	2014-03-10

1.2 Standalone Radiation Sources

Mode #	Description	
GSM850	Frequency range [MHz]	824.2 - 848.8
	Transmission modes	GMSK
	Maximum conducted power [dBm]	27.05
	Maximum radiated power [dBm]	29.05
	Maximum transmission duty cycle [%]	25
	Antenna gain [dBi]	2.0
	Antenna diameter [cm]	4.0
	Assessment Frequency [MHz]	848.8
GSM1900	Frequency range [MHz]	1850.2 - 1909.8
	Transmission modes	GMSK
	Maximum conducted power [dBm]	15.9
	Maximum radiated power [dBm]	17.9
	Maximum transmission duty cycle [%]	25
	Antenna gain [dBi]	2.0
	Antenna diameter [cm]	4.0
	Assessment Frequency [MHz]	1909.8
UMTS FDDV	Frequency range [MHz]	826.4 - 846.6
	Transmission modes	QPSK
	Maximum conducted power [dBm]	21.95
	Maximum radiated power [dBm]	23.95
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	2.0
	Antenna diameter [cm]	4.0
	Assessment Frequency [MHz]	826.6

UMTS FDDII	Frequency range [MHz]	1852.4 - 1907.6
	Transmission modes	QPSK
	Maximum conducted power [dBm]	11.1
	Maximum radiated power [dBm]	13.1
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	2.0
	Antenna diameter [cm]	4.0
	Assessment Frequency [MHz]	1907.4
Bluetooth LE	Frequency range [MHz]	2402 - 2480
	Transmission modes	GFSK
	Maximum conducted power [dBm]	2.1
	Maximum radiated power [dBm]	4.1
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	2.0
	Antenna diameter [cm]	1.0
	Assessment Frequency [MHz]	2440

1.3 Multi-transmitter Modes

	GSM850	GSM1900	UMTS FDDII	UMTS FDDV	Bluetooth LE
GSM850	N/A	N/A	N/A	N/A	Yes
GSM1900	N/A	N/A	N/A	N/A	Yes
UMTS FDDII	N/A	N/A	N/A	N/A	Yes
UMTS FDDV	N/A	N/A	N/A	N/A	Yes
Bluetooth LE	Yes	Yes	Yes	Yes	N/A

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 / <i>f</i>	-	6**
1.29-10	193 / <i>f</i> ^{0.5}	-	-	6**
10-20	61.4	0.163	-10	6
20-48	129.8 / <i>f</i> ^{0.25}	0.3444 / <i>f</i> ^{0.25}	44.72 / <i>f</i> ^{0.5}	6
48-100	49.33	0.1309	6.455	6
100-6000	15.60 <i>f</i> ^{0.25}	0.04138 <i>f</i> ^{0.25}	0.6455 <i>f</i> ^{0.5}	6
6000-15000	137	0.364	50	6
15000-150000	137	0.364	50	616000 / <i>f</i> ^{1.2}
150000-300000	0.354 <i>f</i> ^{0.5}	9.40 x 10 ⁻⁴ <i>f</i> ^{0.5}	3.33 x 10 ⁻⁴ <i>f</i>	616000 / <i>f</i> ^{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 / <i>f</i>	-	6**
1.1-10	87 / <i>f</i> ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07 / <i>f</i> ^{0.25}	0.1540 / <i>f</i> ^{0.25}	8.944 / <i>f</i> ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 <i>f</i> ^{0.3417}	0.008335 <i>f</i> ^{0.3417}	0.02619 <i>f</i> ^{0.6834}	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000 / <i>f</i> ^{1.2}
150000-300000	0.158 <i>f</i> ^{0.5}	4.21 x 10 ⁻⁴ <i>f</i> ^{0.5}	6.67 x 10 ⁻⁵ <i>f</i>	616000 / <i>f</i> ^{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				
$\lambda[m] = \frac{c \left[\frac{m}{s} \right]}{f[Hz]} ; R_{FF}[m] \geq \frac{2 \cdot D[m]^2}{\lambda[m]}$ $S[mW/cm^2] = \frac{P_{E.I.R.P.}[mW]}{4\pi R[cm]^2} ; R[cm] = \sqrt{\frac{P_{E.I.R.P.}[mW]}{4\pi S[mW/cm^2]}}$ $P_R[mW] = P_C[mW] \cdot G ; P_R[dBm] = P_C[dBm] + G[dBi]$ $DCC [dB] = 10 \cdot \log_{10} \left(\frac{DC[\%]}{100} \right)$				
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 - GSM850		
Transmission mode		
Operating mode frequency range [MHz]	824.2 - 848.8	
Assessment frequency (f) [MHz]	848.8	
Transmission duty cycle (DC) [%]	25	
Peak conducted power (P _C) [dBm]	27.05	
Peak radiated power (P _R) [dBm e.i.r.p.]	29.05	
Peak Antenna gain (G) [dBi]	2.0	
Maximum Antenna Diameter D [cm]	4.0	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.353 m	35.34 cm
Antenna far-field distance (R _{FF})	0.009 m	0.91 cm
Power evaluation		
Peak conducted power (P _C)	506.99 mW	27.05 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calcd})	803.53 mW	29.05 dBm
Measured peak radiated power (P _R)	803.53 mW	29.05 dBm
Source average Power		
Maximum transmission duty cycle (DC)	25.0 %	
Duty cycle correction (DCC)	0.25	-6.02 dB
Measured peak radiated power (P _R)	803.53 mW	29.05 dBm
Averaged peak radiated power (P _{RAVG})	200.88 mW	23.03 dBm
Power density		
Compliance power density limit FCC	0.566 mW/cm ²	5.66 W/m ²
Compliance power density limit IC	0.263 mW/cm ²	2.63 W/m ²
Power density @ Antenna far-field distance	19.501 mW/cm ²	195.012 W/m ²
Power density @ 20cm	0.040 mW/cm ²	0.400 W/m ²
Distance for compliance power density FCC	0.053 m	5.32 cm
Distance for compliance power density IC	0.078 m	7.80 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 - GSM1900		
Transmission mode		
Operating mode frequency range [MHz]	1850.2 - 1909.8	
Assessment frequency (f) [MHz]	1909.8	
Transmission duty cycle (DC) [%]	25	
Peak conducted power (P _C) [dBm]	15.9	
Peak radiated power (P _R) [dBm e.i.r.p.]	17.9	
Peak Antenna gain (G) [dBi]	2.0	
Maximum Antenna Diameter D [cm]	4.0	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.157 m	15.71 cm
Antenna far-field distance (R _{FF})	0.020 m	2.04 cm
Power evaluation		
Peak conducted power (P _C)	38.90 mW	15.90 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	61.66 mW	17.90 dBm
Measured peak radiated power (P _R)	61.66 mW	17.90 dBm
Source average Power		
Maximum transmission duty cycle (DC)	25.0 %	
Duty cycle correction (DCC)	0.25	-6.02 dB
Measured peak radiated power (P _R)	61.66 mW	17.90 dBm
Averaged peak radiated power (P _{RAVG})	15.41 mW	11.88 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.457 mW/cm ²	4.57 W/m ²
Power density @ Antenna far-field distance	0.296 mW/cm ²	2.956 W/m ²
Power density @ 20cm	0.003 mW/cm ²	0.031 W/m ²
Distance for compliance power density FCC	0.011 m	1.11 cm
Distance for compliance power density IC	0.016 m	1.64 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]	826.4 - 846.6	
Assessment frequency (f) [MHz]	826.6	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	21.95	
Peak radiated power (P _R) [dBm e.i.r.p.]	23.95	
Peak Antenna gain (G) [dBi]	2.0	
Maximum Antenna Diameter D [cm]	4.0	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.363 m	36.29 cm
Antenna far-field distance (R _{FF})	0.009 m	0.88 cm
Power evaluation		
Peak conducted power (P _C)	156.68 mW	21.95 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	248.31 mW	23.95 dBm
Measured peak radiated power (P _R)	248.31 mW	23.95 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)	248.31 mW	23.95 dBm
Averaged peak radiated power (P _{RAVG})	248.31 mW	23.95 dBm
Power density		
Compliance power density limit FCC	0.551 mW/cm ²	5.51 W/m ²
Compliance power density limit IC	0.258 mW/cm ²	2.58 W/m ²
Power density @ Antenna far-field distance	25.418 mW/cm ²	254.180 W/m ²
Power density @ 20cm	0.049 mW/cm ²	0.494 W/m ²
Distance for compliance power density FCC	0.060 m	5.99 cm
Distance for compliance power density IC	0.087 m	8.75 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 FDDII		
Transmission mode		
Operating mode frequency range [MHz]	1852.4 - 1907.6	
Assessment frequency (f) [MHz]	1907.4	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	11.1	
Peak radiated power (P _R) [dBm e.i.r.p.]	13.1	
Peak Antenna gain (G) [dBi]	2.0	
Maximum Antenna Diameter D [cm]	4.0	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.157 m	15.73 cm
Antenna far-field distance (R _{FF})	0.020 m	2.03 cm
Power evaluation		
Peak conducted power (P _C)	12.88 mW	11.10 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calc})	20.42 mW	13.10 dBm
Measured peak radiated power (P _R)	20.42 mW	13.10 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)	20.42 mW	13.10 dBm
Averaged peak radiated power (P _{RAVG})	20.42 mW	13.10 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.457 mW/cm ²	4.57 W/m ²
Power density @ Antenna far-field distance	0.393 mW/cm ²	3.925 W/m ²
Power density @ 20cm	0.004 mW/cm ²	0.041 W/m ²
Distance for compliance power density FCC	0.013 m	1.27 cm
Distance for compliance power density IC	0.019 m	1.89 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 - Bluetooth LE		
Transmission mode		
Operating mode frequency range [MHz]	2402 - 2480	
Assessment frequency (f) [MHz]	2440	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	2.1	
Peak radiated power (P _R) [dBm e.i.r.p.]	4.1	
Peak Antenna gain (G) [dBi]	2.0	
Maximum Antenna Diameter D [cm]	1.0	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.123 m	12.30 cm
Antenna far-field distance (R _{FF})	0.002 m	0.16 cm
Power evaluation		
Peak conducted power (P _C)	1.62 mW	2.10 dBm
Peak Antenna Gain (G)	1.58	2.00 dBi
Calculated peak radiated power (P _{R-Calcd})	2.57 mW	4.10 dBm
Measured peak radiated power (P _R)	2.57 mW	4.10 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)	2.57 mW	4.10 dBm
Averaged peak radiated power (P _{RAVG})	2.57 mW	4.10 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.541 mW/cm ²	5.41 W/m ²
Power density @ Antenna far-field distance	7.730 mW/cm ²	77.302 W/m ²
Power density @ 20cm	0.001 mW/cm ²	0.005 W/m ²
Distance for compliance power density FCC	0.005 m	0.45 cm
Distance for compliance power density IC	0.006 m	0.61 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:		

4.3 Multi-Transmitter Assessment – 47 CFR 2.1091 / RSS-102

Assessment result - GSM850 + Bluetooth LE		
Concurrent Operating Modes		
Number of concurrent operating modes	2	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	20	
GSM850		
FCC limit ($S_{FCCLimit}$)	0.566 mW/cm ²	5.66 W/m ²
IC limit ($S_{ICLimit}$)	0.263 mW/cm ²	2.63 W/m ²
Power density @ compliance distance (S_{CD})	0.040 mW/cm ²	0.40 W/m ²
MPE Ratio ($S_{CD} / S_{FCCLimit}$) FCC	0.07	
MPE Ratio ($S_{CD} / S_{ICLimit}$) IC	0.15	
Bluetooth LE		
FCC limit ($S_{FCCLimit}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{ICLimit}$)	0.541 mW/cm ²	5.41 W/m ²
Power density @ compliance distance (S_{CD})	0.001 mW/cm ²	0.01 W/m ²
MPE Ratio ($S_{CD} / S_{FCCLimit}$) FCC	0.00	
MPE Ratio ($S_{CD} / S_{ICLimit}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{CD} / S_{FCCLimit}$ FCC	0.07	
$\sum S_{CD} / S_{ICLimit}$ IC	0.15	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 20.00cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 20.00cm!		
Comments:		

Assessment result - GSM1900 + Bluetooth LE		
Concurrent Operating Modes		
Number of concurrent operating modes	2	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	20	
GSM1900		
FCC limit (S_{FCCLimit})	1.000 mW/cm ²	10.00 W/m ²
IC limit (S_{ICLimit})	0.457 mW/cm ²	4.57 W/m ²
Power density @ compliance distance (S_{CD})	0.003 mW/cm ²	0.03 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimit}}$) FCC	0.00	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimit}}$) IC	0.01	
Bluetooth LE		
FCC limit (S_{FCCLimit})	1.000 mW/cm ²	10.00 W/m ²
IC limit (S_{ICLimit})	0.541 mW/cm ²	5.41 W/m ²
Power density @ compliance distance (S_{CD})	0.001 mW/cm ²	0.01 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimit}}$) FCC	0.00	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimit}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}} / S_{\text{FCCLimit}}$ FCC	0.00	
$\sum S_{\text{CD}} / S_{\text{ICLimit}}$ IC	0.01	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 20.00cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 20.00cm!		
Comments:		

Assessment result - UMTS FDDV + Bluetooth LE		
Concurrent Operating Modes		
Number of concurrent operating modes	2	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	20	
UMTS FDDV		
FCC limit (S_{FCCLimit})	0.551 mW/cm ²	5.51 W/m ²
IC limit (S_{ICLimit})	0.258 mW/cm ²	2.58 W/m ²
Power density @ compliance distance (S_{CD})	0.049 mW/cm ²	0.49 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimit}}$) FCC	0.09	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimit}}$) IC	0.19	
Bluetooth LE		
FCC limit (S_{FCCLimit})	1.000 mW/cm ²	10.00 W/m ²
IC limit (S_{ICLimit})	0.541 mW/cm ²	5.41 W/m ²
Power density @ compliance distance (S_{CD})	0.001 mW/cm ²	0.01 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimit}}$) FCC	0.00	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimit}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}} / S_{\text{FCCLimit}}$ FCC	0.09	
$\sum S_{\text{CD}} / S_{\text{ICLimit}}$ IC	0.19	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 20.00cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 20.00cm!		
Comments:		

Assessment result - UMTS FDDII + Bluetooth LE		
Concurrent Operating Modes		
Number of concurrent operating modes	2	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	20	
UMTS FDDII		
FCC limit (S_{FCCLimit})	1.000 mW/cm ²	10.00 W/m ²
IC limit (S_{ICLimit})	0.457 mW/cm ²	4.57 W/m ²
Power density @ compliance distance (S_{CD})	0.004 mW/cm ²	0.04 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimit}}$) FCC	0.00	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimit}}$) IC	0.01	
Bluetooth LE		
FCC limit (S_{FCCLimit})	1.000 mW/cm ²	10.00 W/m ²
IC limit (S_{ICLimit})	0.541 mW/cm ²	5.41 W/m ²
Power density @ compliance distance (S_{CD})	0.001 mW/cm ²	0.01 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimit}}$) FCC	0.00	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimit}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}} / S_{\text{FCCLimit}}$ FCC	0.00	
$\sum S_{\text{CD}} / S_{\text{ICLimit}}$ IC	0.01	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 20.00cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 20.00cm!		
Comments:		