

RF-EXPOSURE ASSESSMENT REPORT

FCC 47 CFR Part 2.1091
Industry Canada RSS-102

RF-Exposure evaluation of mobile equipment

Report Reference No......: G0M-1409-4119-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: Leica Geosystems AG

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SWITZERLAND

Test specification:

Standard: 47 CFR 1.1310 / 47 CFR 2.1091 / 47 CFR 2.1093
OET Bulletin 65:1997
RSS-102, Issue 5:2015-03
Safety Code 6:2015-03

Equipment under test (EUT):

Product description	GNSS Receiver for Machine Control	
Model No.	iCG80	
Additional Model(s)	None	
Brand Name(s)	ICON	
Hardware version	Pantani PROTO1	
Firmware / Software version	None	
	FCC-ID: RFD-ICG8XNG	IC: 3177A-ICG8XNG

Test result: **Passed**

Test Report No.: G0M-1409-4119-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: 2014-09-22

Date (s) of assessment: 2015-06-29

Compiled by: Christian Weber

Assessed by (+ signature): Christian Weber
(Responsible for Assessment)

Approved by (+ signature): Toralf Jahn
(Deputy Head of Lab)

Date of issue: 2015-06-29

Total number of pages: 32

C. Weber

T. Jahn

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	2015-06-29	Initial Release	

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1 Equipment (Test item) Description

Description	GNSS Receiver for Machine Control
Model	ICG80
Additional Model(s)	None
Brand Name(s)	ICON
Serial number	None
Hardware version	Pantani PROTO1
Software / Firmware version	None
FCC-ID	RFD-ICG8XNG
IC	3177A-ICG8XNG
Equipment type	End product

1.1 Reference Documents

Document type	Document No.	Issued by	Date
FCC 22H/24E Test Report	14B0364R-HP-US-P07V01	Suzhou EMC Laboratory	2014-12-17
FCC 27M Test Report	14C0227R-HP-US-P07V01	Suzhou EMC Laboratory	2014-12-17
FCC Radio Test Report	39184-01	Elite Electronic Engineering Inc.	2008-02-04
FCC Radio Test Report	39186-01	Elite Electronic Engineering Inc.	2008-02-04
Radio Test report	131691	Nemko Oy	2009-08-27
Radio Test report	G0M-1409-4119-TFC247BT-V01	Eurofins Product Service GmbH	2015-05-06

1.2 Standalone Radiation Sources

Mode #	Description	
SRD 400 MHz	Frequency range [MHz]	403 – 473
	Transmission modes	FM
	Maximum conducted power [dBm]	30.33
	Maximum radiated power [dBm]	30.33
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	0
	Antenna diameter [cm]	8.6
	Assessment frequency [MHz]	403
SRD 900MHz	Frequency range [MHz]	902.25 - 927.82
	Transmission modes	FHSS
	Maximum conducted power [dBm]	29.6
	Maximum radiated power [dBm]	32.6
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	3
	Antenna diameter [cm]	8.6
	Assessment frequency [MHz]	915.6
GSM/GPRS/E GPRS 850	Frequency range [MHz]	824.2 MHz - 848.8 MHz
	Transmission modes	GMSK, 8PSK
	Maximum conducted power [dBm]	32.54
	Maximum radiated power [dBm]	35.54
	Maximum transmission duty cycle [%]	50
	Antenna gain [dBi]	3
	Antenna diameter [cm]	6.1
	Assessment frequency [MHz]	824.2

GSM/GPRS/E GPRS 1900	Frequency range [MHz]	1850.2 MHz - 1909.8 MHz
	Transmission modes	GMSK, 8PSK
	Maximum conducted power [dBm]	29.92
	Maximum radiated power [dBm]	32.92
	Maximum transmission duty cycle [%]	50
	Antenna gain [dBi]	3
	Antenna diameter [cm]	6.1
	Assessment frequency [MHz]	1850.2
UMTS FDD II	Frequency range [MHz]	1852.4 MHz - 1907.6 MHz
	Transmission modes	QPSK
	Maximum conducted power [dBm]	23.87
	Maximum radiated power [dBm]	26.87
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	3
	Antenna diameter [cm]	6.1
	Assessment Frequency [MHz]	1852.4
UMTS FDD V	Frequency range [MHz]	826.4 MHz - 846.6 MHz
	Transmission modes	QPSK
	Maximum conducted power [dBm]	23.61
	Maximum radiated power [dBm]	26.61
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	3
	Antenna diameter [cm]	6.1
	Assessment Frequency [MHz]	826.4
LTE 7	Frequency range [MHz]	2500 MHz - 2569.9 MHz
	Transmission modes	QPSK
	Maximum conducted power [dBm]	23.21
	Maximum radiated power [dBm]	26.21
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	3
	Antenna diameter [cm]	6.1
	Assessment Frequency [MHz]	2500

Bluetooth	Frequency range [MHz]	2400 MHz – 2483.5 MHz
	Transmission modes	GFSK, PI/4-DQPSK, 8-PSK
	Maximum conducted power [dBm]	3.49
	Maximum radiated power [dBm]	-8.51
	Maximum transmission duty cycle [%]	100
	Antenna gain [dBi]	-12
	Antenna diameter [cm]	3.5
	Assessment Frequency [MHz]	2402

1.3 Multi-transmitter Modes

	Bluetooth	SRD 400/900 MHz	GSM/UMTS/LTE
Bluetooth	N/A	Yes	Yes
SRD 400/900 MHz	Yes	N/A	Yes
GSM/UMTS/LTE	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 @ 33.3 cm below limit	PASS	
RSS-102 2.5.2	Maximum permissible exposure @ 33.3 cm 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 – 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				
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.				

Assessment result - SRD 400 MHz		
Transmission mode		
Operating mode frequency range [MHz]	403 – 473	
Assessment frequency (f) [MHz]	403	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	30.33	
Peak radiated power (P _R) [dBm e.i.r.p.]	30.33	
Peak Antenna gain (G) [dBi]	0	
Maximum Antenna Diameter D [cm]	8.6	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.744 m	74.44 cm
Antenna far-field distance (R _{FF})	0.020 m	1.99 cm
Power evaluation		
Peak conducted power (P _C)	1078.95 mW	30.33 dBm
Peak Antenna Gain (G)	1.00	0.00 dBi
Calculated peak radiated power (P _{R-Calc})	1078.95 mW	30.33 dBm
Measured peak radiated power (P _R)	1078.95 mW	30.33 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)	1078.95 mW	30.33 dBm
Averaged peak radiated power (P _{RAVG})	1078.95 mW	30.33 dBm
Power density		
Compliance power density limit FCC	0.269 mW/cm ²	2.69 W/m ²
Compliance power density limit IC	0.158 mW/cm ²	1.58 W/m ²
Power density @ Antenna far-field distance	21.745 mW/cm ²	217.455 W/m ²
Power density @ 20cm	0.215 mW/cm ²	2.146 W/m ²
Distance for compliance power density FCC	0.179 m	17.88 cm
Distance for compliance power density IC	0.233 m	23.31 cm
Verdict		
The power density of the EUT at 20cm is below the FCC MPE limit!		
The EUT fulfills the IC MPE limit @ 23.31 cm!		
Comments:		

Assessment result - SRD 900MHz		
Transmission mode		
Operating mode frequency range [MHz]	902.25 - 927.82	
Assessment frequency (f) [MHz]	915.6	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	29.6	
Peak radiated power (P _R) [dBm e.i.r.p.]	32.6	
Peak Antenna gain (G) [dBi]	3	
Maximum Antenna Diameter D [cm]	8.6	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.328 m	32.77 cm
Antenna far-field distance (R _{FF})	0.045 m	4.51 cm
Power evaluation		
Peak conducted power (P _C)	912.01 mW	29.60 dBm
Peak Antenna Gain (G)	2.00	3.00 dBi
Calculated peak radiated power (P _{R-Calc})	1819.70 mW	32.60 dBm
Measured peak radiated power (P _R)	1819.70 mW	32.60 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)	1819.70 mW	32.60 dBm
Averaged peak radiated power (P _{RAVG})	1819.70 mW	32.60 dBm
Power density		
Compliance power density limit FCC	0.610 mW/cm ²	6.10 W/m ²
Compliance power density limit IC	0.277 mW/cm ²	2.77 W/m ²
Power density @ Antenna far-field distance	7.105 mW/cm ²	71.051 W/m ²
Power density @ 20cm	0.362 mW/cm ²	3.620 W/m ²
Distance for compliance power density FCC	0.154 m	15.40 cm
Distance for compliance power density IC	0.229 m	22.87 cm
Verdict		
The power density of the EUT at 20cm is below the FCC MPE limit!		
The EUT fulfills the IC MPE limit @ 22.87 cm!		
Comments:		

Assessment result - GSM/GPRS/EGPRS 850		
Transmission mode		
Operating mode frequency range [MHz]	824.2 MHz - 848.8 MHz	
Assessment frequency (f) [MHz]	824.2	
Transmission duty cycle (DC) [%]	50	
Peak conducted power (P _C) [dBm]	32.54	
Peak radiated power (P _R) [dBm e.i.r.p.]	35.54	
Peak Antenna gain (G) [dBi]	3	
Maximum Antenna Diameter D [cm]	6.1	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.364 m	36.40 cm
Antenna far-field distance (R _{FF})	0.020 m	2.04 cm
Power evaluation		
Peak conducted power (P _C)	1794.73 mW	32.54 dBm
Peak Antenna Gain (G)	2.00	3.00 dBi
Calculated peak radiated power (P _{R-Calc})	3580.96 mW	35.54 dBm
Measured peak radiated power (P _R)	3580.96 mW	35.54 dBm
Source average Power		
Maximum transmission duty cycle (DC)	50.0 %	
Duty cycle correction (DCC)	0.50	-3.01 dB
Measured peak radiated power (P _R)	3580.96 mW	35.54 dBm
Averaged peak radiated power (P _{RAVG})	1790.48 mW	32.53 dBm
Power density		
Compliance power density limit FCC	0.549 mW/cm ²	5.49 W/m ²
Compliance power density limit IC	0.258 mW/cm ²	2.58 W/m ²
Power density @ Antenna far-field distance	34.085 mW/cm ²	340.846 W/m ²
Power density @ 20cm	0.356 mW/cm ²	3.562 W/m ²
Distance for compliance power density FCC	0.161 m	16.10 cm
Distance for compliance power density IC	0.235 m	23.52 cm
Verdict		
The power density of the EUT at 20cm is below the FCC MPE limit!		
The EUT fulfills the IC MPE limit @ 23.52 cm!		
Comments:		

Assessment result - GSM/GPRS/EGPRS 1900		
Transmission mode		
Operating mode frequency range [MHz]	1850.2 MHz - 1909.8 MHz	
Assessment frequency (f) [MHz]	1850.2	
Transmission duty cycle (DC) [%]	50	
Peak conducted power (P _C) [dBm]	29.92	
Peak radiated power (P _R) [dBm e.i.r.p.]	32.92	
Peak Antenna gain (G) [dBi]	3	
Maximum Antenna Diameter D [cm]	6.1	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.162 m	16.21 cm
Antenna far-field distance (R _{FF})	0.046 m	4.59 cm
Power evaluation		
Peak conducted power (P _C)	981.75 mW	29.92 dBm
Peak Antenna Gain (G)	2.00	3.00 dBi
Calculated peak radiated power (P _{R-Calc})	1958.84 mW	32.92 dBm
Measured peak radiated power (P _R)	1958.84 mW	32.92 dBm
Source average Power		
Maximum transmission duty cycle (DC)	50.0 %	
Duty cycle correction (DCC)	0.50	-3.01 dB
Measured peak radiated power (P _R)	1958.84 mW	32.92 dBm
Averaged peak radiated power (P _{RAVG})	979.42 mW	29.91 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.448 mW/cm ²	4.48 W/m ²
Power density @ Antenna far-field distance	3.700 mW/cm ²	36.999 W/m ²
Power density @ 20cm	0.195 mW/cm ²	1.948 W/m ²
Distance for compliance power density FCC	0.088 m	8.83 cm
Distance for compliance power density IC	0.132 m	13.19 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:		

Assessment result - UMTS FDD II		
Transmission mode		
Operating mode frequency range [MHz]	1852.4 MHz - 1907.6 MHz	
Assessment frequency (f) [MHz]	1852.4	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	23.87	
Peak radiated power (P _R) [dBm e.i.r.p.]	26.87	
Peak Antenna gain (G) [dBi]	3	
Maximum Antenna Diameter D [cm]	6.1	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.162 m	16.20 cm
Antenna far-field distance (R _{FF})	0.046 m	4.60 cm
Power evaluation		
Peak conducted power (P _C)	243.78 mW	23.87 dBm
Peak Antenna Gain (G)	2.00	3.00 dBi
Calculated peak radiated power (P _{R-Calc})	486.41 mW	26.87 dBm
Measured peak radiated power (P _R)	486.41 mW	26.87 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)	486.41 mW	26.87 dBm
Averaged peak radiated power (P _{RAVG})	486.41 mW	26.87 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.448 mW/cm ²	4.48 W/m ²
Power density @ Antenna far-field distance	1.833 mW/cm ²	18.331 W/m ²
Power density @ 20cm	0.097 mW/cm ²	0.968 W/m ²
Distance for compliance power density FCC	0.062 m	6.22 cm
Distance for compliance power density IC	0.093 m	9.29 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 FDD V		
Transmission mode		
Operating mode frequency range [MHz]	826.4 MHz - 846.6 MHz	
Assessment frequency (f) [MHz]	826.4	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	23.61	
Peak radiated power (P _R) [dBm e.i.r.p.]	26.61	
Peak Antenna gain (G) [dBi]	3	
Maximum Antenna Diameter D [cm]	6.1	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.363 m	36.30 cm
Antenna far-field distance (R _{FF})	0.021 m	2.05 cm
Power evaluation		
Peak conducted power (P _C)	229.61 mW	23.61 dBm
Peak Antenna Gain (G)	2.00	3.00 dBi
Calculated peak radiated power (P _{R-Calc})	458.14 mW	26.61 dBm
Measured peak radiated power (P _R)	458.14 mW	26.61 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)	458.14 mW	26.61 dBm
Averaged peak radiated power (P _{RAVG})	458.14 mW	26.61 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	8.675 mW/cm ²	86.751 W/m ²
Power density @ 20cm	0.091 mW/cm ²	0.911 W/m ²
Distance for compliance power density FCC	0.081 m	8.13 cm
Distance for compliance power density IC	0.119 m	11.89 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 - LTE 7		
Transmission mode		
Operating mode frequency range [MHz]	2500 MHz - 2569.9 MHz	
Assessment frequency (f) [MHz]	2500	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	23.21	
Peak radiated power (P _R) [dBm e.i.r.p.]	26.21	
Peak Antenna gain (G) [dBi]	3	
Maximum Antenna Diameter D [cm]	6.1	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.120 m	12.00 cm
Antenna far-field distance (R _{FF})	0.062 m	6.20 cm
Power evaluation		
Peak conducted power (P _C)	209.41 mW	23.21 dBm
Peak Antenna Gain (G)	2.00	3.00 dBi
Calculated peak radiated power (P _{R-Calc})	417.83 mW	26.21 dBm
Measured peak radiated power (P _R)	417.83 mW	26.21 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)	417.83 mW	26.21 dBm
Averaged peak radiated power (P _{RAVG})	417.83 mW	26.21 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.550 mW/cm ²	5.50 W/m ²
Power density @ Antenna far-field distance	0.865 mW/cm ²	8.645 W/m ²
Power density @ 20cm	0.083 mW/cm ²	0.831 W/m ²
Distance for compliance power density FCC	0.058 m	5.77 cm
Distance for compliance power density IC	0.078 m	7.78 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		
Transmission mode		
Operating mode frequency range [MHz]	2400 MHz – 2483.5 MHz	
Assessment frequency (f) [MHz]	2402	
Transmission duty cycle (DC) [%]	100	
Peak conducted power (P _C) [dBm]	3.49	
Peak radiated power (P _R) [dBm e.i.r.p.]	-8.51	
Peak Antenna gain (G) [dBi]	-12	
Maximum Antenna Diameter D [cm]	3.5	
Antenna far-field distance		
Transmission frequency wavelength (λ)	0.125 m	12.49 cm
Antenna far-field distance (R _{FF})	0.020 m	1.96 cm
Power evaluation		
Peak conducted power (P _C)	2.23 mW	3.49 dBm
Peak Antenna Gain (G)	0.06	-12.00 dBi
Calculated peak radiated power (P _{R-Calc})	0.14 mW	-8.51 dBm
Measured peak radiated power (P _R)	0.14 mW	-8.51 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)	0.14 mW	-8.51 dBm
Averaged peak radiated power (P _{RAVG})	0.14 mW	-8.51 dBm
Power density		
Compliance power density limit FCC	1.000 mW/cm ²	10.00 W/m ²
Compliance power density limit IC	0.535 mW/cm ²	5.35 W/m ²
Power density @ Antenna far-field distance	0.003 mW/cm ²	0.029 W/m ²
Power density @ 20cm	0.000 mW/cm ²	0.000 W/m ²
Distance for compliance power density FCC	0.001 m	0.11 cm
Distance for compliance power density IC	0.001 m	0.14 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 - SRD 400 MHz + GSM/GPRS/EGPRS 850 + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 400 MHz		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.269 mW/cm ²	2.69 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.158 mW/cm ²	1.58 W/m ²
Power density @ compliance distance (S_{CD})	0.077 mW/cm ²	0.77 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimitCD}}$) FCC	0.29	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimitCD}}$) IC	0.49	
GSM/GPRS/EGPRS 850		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.549 mW/cm ²	5.49 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.258 mW/cm ²	2.58 W/m ²
Power density @ compliance distance (S_{CD})	0.128 mW/cm ²	1.28 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimitCD}}$) FCC	0.23	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimitCD}}$) IC	0.50	
Bluetooth		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimitCD}}$) FCC	0.00	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimitCD}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}} / S_{\text{FCCLimit}}$ FCC	0.52	
$\sum S_{\text{CD}} / S_{\text{ICLimit}}$ IC	0.99	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 400 MHz + GSM/GPRS/EGPRS 1900 + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 400 MHz		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.269 mW/cm ²	2.69 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.158 mW/cm ²	1.58 W/m ²
Power density @ compliance distance (S_{CD})	0.077 mW/cm ²	0.77 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.29	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.49	
GSM/GPRS/EGPRS 1900		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.448 mW/cm ²	4.48 W/m ²
Power density @ compliance distance (S_{CD})	0.070 mW/cm ²	0.70 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.07	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.16	
Bluetooth		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}}$ / S_{FCCLimit} FCC	0.36	
$\sum S_{\text{CD}}$ / S_{ICLimit} IC	0.65	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 400 MHz + UMTS FDD II + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 400 MHz		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.269 mW/cm ²	2.69 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.158 mW/cm ²	1.58 W/m ²
Power density @ compliance distance (S_{CD})	0.077 mW/cm ²	0.77 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.29	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.49	
UMTS FDD II		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.448 mW/cm ²	4.48 W/m ²
Power density @ compliance distance (S_{CD})	0.035 mW/cm ²	0.35 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.03	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.08	
Bluetooth		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}}$ / S_{FCCLimit} FCC	0.32	
$\sum S_{\text{CD}}$ / S_{ICLimit} IC	0.57	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 400 MHz + UMTS FDD V + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 400 MHz		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.269 mW/cm ²	2.69 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.158 mW/cm ²	1.58 W/m ²
Power density @ compliance distance (S_{CD})	0.077 mW/cm ²	0.77 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimitCD}}$) FCC	0.29	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimitCD}}$) IC	0.49	
UMTS FDD V		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.551 mW/cm ²	5.51 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.258 mW/cm ²	2.58 W/m ²
Power density @ compliance distance (S_{CD})	0.033 mW/cm ²	0.33 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimitCD}}$) FCC	0.06	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimitCD}}$) IC	0.13	
Bluetooth		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio ($S_{\text{CD}} / S_{\text{FCCLimitCD}}$) FCC	0.00	
MPE Ratio ($S_{\text{CD}} / S_{\text{ICLimitCD}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}} / S_{\text{FCCLimit}}$ FCC	0.35	
$\sum S_{\text{CD}} / S_{\text{ICLimit}}$ IC	0.62	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 400 MHz + LTE 7 + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 400 MHz		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.269 mW/cm ²	2.69 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.158 mW/cm ²	1.58 W/m ²
Power density @ compliance distance (S_{CD})	0.077 mW/cm ²	0.77 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.29	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.49	
LTE 7		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.550 mW/cm ²	5.50 W/m ²
Power density @ compliance distance (S_{CD})	0.030 mW/cm ²	0.30 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.03	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.05	
Bluetooth		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}}$ / S_{FCCLimit} FCC	0.32	
$\sum S_{\text{CD}}$ / S_{ICLimit} IC	0.54	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 900MHz + GSM/GPRS/EGPRS 850 + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 900MHZ		
FCC limit ($S_{FCCLimitCD}$)	0.610 mW/cm ²	6.10 W/m ²
IC limit ($S_{ICLimitCD}$)	0.277 mW/cm ²	2.77 W/m ²
Power density @ compliance distance (S_{CD})	0.131 mW/cm ²	1.31 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.21	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.47	
GSM/GPRS/EGPRS 850		
FCC limit ($S_{FCCLimitCD}$)	0.549 mW/cm ²	5.49 W/m ²
IC limit ($S_{ICLimitCD}$)	0.258 mW/cm ²	2.58 W/m ²
Power density @ compliance distance (S_{CD})	0.128 mW/cm ²	1.28 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.23	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.50	
Bluetooth		
FCC limit ($S_{FCCLimitCD}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{ICLimitCD}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{CD}$ / $S_{FCCLimit}$ FCC	0.45	
$\sum S_{CD}$ / $S_{ICLimit}$ IC	0.97	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 900MHz + GSM/GPRS/EGPRS 1900 + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 900MHz		
FCC limit ($S_{FCCLimitCD}$)	0.610 mW/cm ²	6.10 W/m ²
IC limit ($S_{ICLimitCD}$)	0.277 mW/cm ²	2.77 W/m ²
Power density @ compliance distance (S_{CD})	0.131 mW/cm ²	1.31 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.21	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.47	
GSM/GPRS/EGPRS 1900		
FCC limit ($S_{FCCLimitCD}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{ICLimitCD}$)	0.448 mW/cm ²	4.48 W/m ²
Power density @ compliance distance (S_{CD})	0.070 mW/cm ²	0.70 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.07	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.16	
Bluetooth		
FCC limit ($S_{FCCLimitCD}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{ICLimitCD}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{CD}$ / $S_{FCCLimit}$ FCC	0.28	
$\sum S_{CD}$ / $S_{ICLimit}$ IC	0.63	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 900MHz + UMTS FDD II + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 900MHZ		
FCC limit ($S_{FCCLimitCD}$)	0.610 mW/cm ²	6.10 W/m ²
IC limit ($S_{ICLimitCD}$)	0.277 mW/cm ²	2.77 W/m ²
Power density @ compliance distance (S_{CD})	0.131 mW/cm ²	1.31 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.21	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.47	
UMTS FDD II		
FCC limit ($S_{FCCLimitCD}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{ICLimitCD}$)	0.448 mW/cm ²	4.48 W/m ²
Power density @ compliance distance (S_{CD})	0.035 mW/cm ²	0.35 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.03	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.08	
Bluetooth		
FCC limit ($S_{FCCLimitCD}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{ICLimitCD}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{CD}$ / $S_{FCCLimit}$ FCC	0.25	
$\sum S_{CD}$ / $S_{ICLimit}$ IC	0.55	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 900MHz + UMTS FDD V + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 900MHZ		
FCC limit ($S_{FCCLimitCD}$)	0.610 mW/cm ²	6.10 W/m ²
IC limit ($S_{ICLimitCD}$)	0.277 mW/cm ²	2.77 W/m ²
Power density @ compliance distance (S_{CD})	0.131 mW/cm ²	1.31 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.21	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.47	
UMTS FDD V		
FCC limit ($S_{FCCLimitCD}$)	0.551 mW/cm ²	5.51 W/m ²
IC limit ($S_{ICLimitCD}$)	0.258 mW/cm ²	2.58 W/m ²
Power density @ compliance distance (S_{CD})	0.033 mW/cm ²	0.33 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.06	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.13	
Bluetooth		
FCC limit ($S_{FCCLimitCD}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{ICLimitCD}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{FCCLimitCD}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{ICLimitCD}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{CD}$ / $S_{FCCLimit}$ FCC	0.27	
$\sum S_{CD}$ / $S_{ICLimit}$ IC	0.60	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		

Assessment result - SRD 900MHz + LTE 7 + Bluetooth		
Concurrent Operating Modes		
Number of concurrent operating modes	3	
Compliance Distance		
Distance to EUT used for compliance evaluation [cm]	33.3	
SRD 900MHz		
FCC limit ($S_{\text{FCCLimitCD}}$)	0.610 mW/cm ²	6.10 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.277 mW/cm ²	2.77 W/m ²
Power density @ compliance distance (S_{CD})	0.131 mW/cm ²	1.31 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.21	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.47	
LTE 7		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.550 mW/cm ²	5.50 W/m ²
Power density @ compliance distance (S_{CD})	0.030 mW/cm ²	0.30 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.03	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.05	
Bluetooth		
FCC limit ($S_{\text{FCCLimitCD}}$)	1.000 mW/cm ²	10.00 W/m ²
IC limit ($S_{\text{ICLimitCD}}$)	0.535 mW/cm ²	5.35 W/m ²
Power density @ compliance distance (S_{CD})	0.000 mW/cm ²	0.00 W/m ²
MPE Ratio (S_{CD} / $S_{\text{FCCLimitCD}}$) FCC	0.00	
MPE Ratio (S_{CD} / $S_{\text{ICLimitCD}}$) IC	0.00	
Sum of MPE Ratios		
$\sum S_{\text{CD}}$ / S_{FCCLimit} FCC	0.24	
$\sum S_{\text{CD}}$ / S_{ICLimit} IC	0.53	
Verdict		
The EUT fulfils the FCC multi-transmitter MPE limit @ 33.30cm!		
The EUT fulfils the IC multi-transmitter MPE limit @ 33.30cm!		
Comments:		