

**Annex 3: Measurement diagrams to  
TEST REPORT  
No.: 6-0608-14-1-5a**

According to:  
**FCC Regulations**  
Part 15.109

**IC-Regulations**  
RSS-Gen., Issue 4







for

Telit Communications S.p.A.

3G module  
UE866-N3G

FCC-ID: RI7UE866N3

IC: 5131A-UE866N3  
PMN: UE866-N3G  
HVIN: OH0

Laboratory Accreditation and Listings			
 <b>Deutsche Akkreditierungsstelle</b> D-PL-12047-01-01	 <b>FEDERAL COMMUNICATIONS COMMISSION U.S.A.</b> Reg. No.: 736496 MRA US-EU 0003	 <b>Industry Canada</b> Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 <b>Voluntary Controls for Electromagnetic Emissions</b> Reg. No.: R-2666 C-2914, T-1967, G-301
 <b>AUTHORIZED RF LABORATORY</b>	 <b>LAB CODE 20011130-00</b>		
accredited according to DIN EN ISO/IEC 17025			
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# 1. Measurement diagrams

## 1.1. Conducted emissions on AC-Power lines

### 1.01

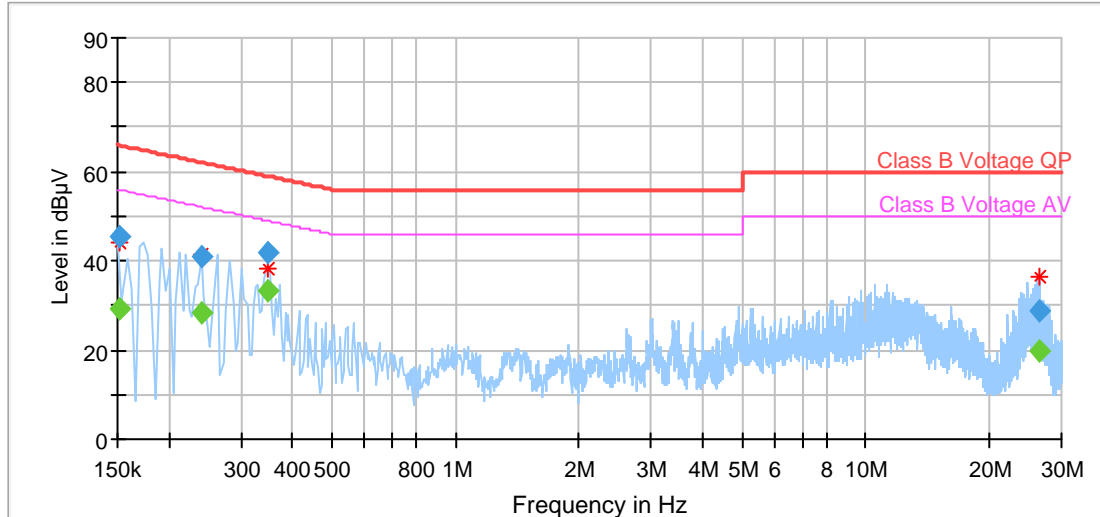
#### Common Information

Test Description:	Conducted Voltage Measurement Class B
Test Site & Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Specification:	FCC 15.107, FCC 15.207
Operating Mode:	Radio idle + USB communication
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 31%rH; Temperature: 22°C
Operator:	HLa
Comments:	

#### EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
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HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	DC
Comments:	

Full Spectrum



#### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.150938	---	29.41	55.95	26.54	9.000	L1	GN	0.1
0.150938	45.27	---	65.95	20.68	9.000	L1	GN	0.1
0.240781	---	28.19	52.07	23.88	9.000	L1	GN	0.1
0.240781	40.81	---	62.07	21.26	9.000	L1	GN	0.1
0.350625	---	33.37	48.95	15.58	9.000	L1	GN	0.1
0.350625	41.73	---	58.95	17.22	9.000	L1	GN	0.1
26.497969	---	19.63	50.00	30.37	9.000	L1	GN	0.5
26.497969	28.75	---	60.00	31.25	9.000	L1	GN	0.5

## 1.2. Radiated field strength emissions, 30 MHz - 1 GHz

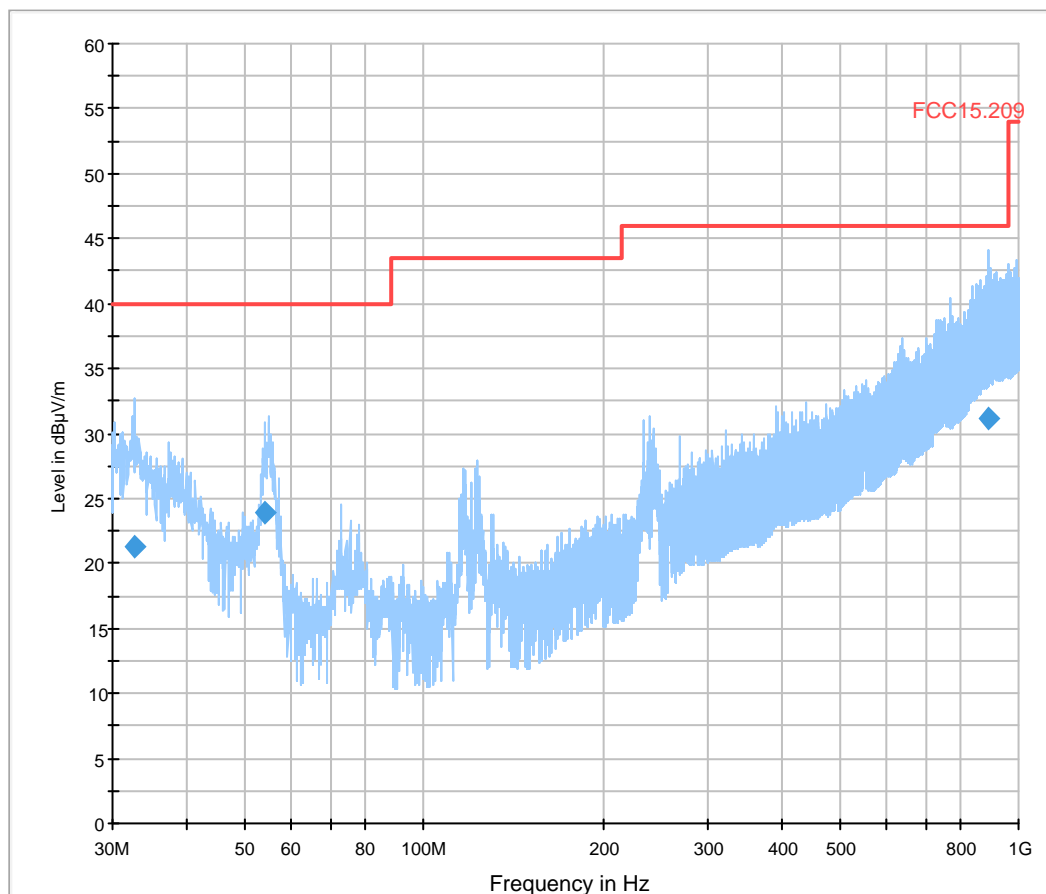
### Diagram No. 3.02

Test description:	15.05.2015 Page 1 of 2
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Used filter:	not used
Technical Data:	not used
Test specification.:	please see page 2 for detailed data of measurement setup
	FCC 15.209; RSS-Gen: Issue 3
Operator:	HLa
Operating conditions:	Radio idle + USB communication
Power during tests:	3.8V DC
Comment 1:	--

#### EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
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HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

01\_FCC15.209\_hor+vert\_kipp



**Final Result 1**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)
32.700000	21.3	1000.0	120.000	182.0	H	227.0	0.0	20.8	18.70
54.070000	23.9	1000.0	120.000	165.0	V	76.0	90.0	12.1	16.10
886.930000	31.2	1000.0	120.000	105.0	V	238.0	0.0	26.7	14.80

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dB $\mu$ V/m)
32.700000	40.00
54.070000	40.00
886.930000	46.00

### 1.3. Radiated emissions, above 1 GHz

#### 8.01

##### Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109
Section:	15.109
Operating Mode:	Radio idle + USB communication
Equipment Class:	Class B
Environmental Conditions:	Humidity: 44%rH; Temperature: 20°C
Operator:	HLA

##### EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
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HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	
Comments:	

Full Spectrum

