

## Annex 1: Measurement diagrams 20-1-0127501T02a-A1

<b>Number of pages:</b>	4	<b>Date of Report:</b>	2021-Mar-16
<b>Testing company:</b>	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	<b>Applicant:</b>	ElektronikSystem i Umeå AB
<b>Product:</b>	EMS		
<b>Model:</b>	LoRa device		
<b>FCC ID:</b>	2ANX3-EMS01	<b>IC:</b>	26904-EMS01
<b>Testing has been carried out in accordance with:</b>	<b>FCC Regulations:</b> Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart B: §15.109 (Class B limits)  <b>ISED Regulations:</b> ICES-003, Issue 6 (2016+Update 2019)  Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

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## 1 Measurement diagrams

### 3.01

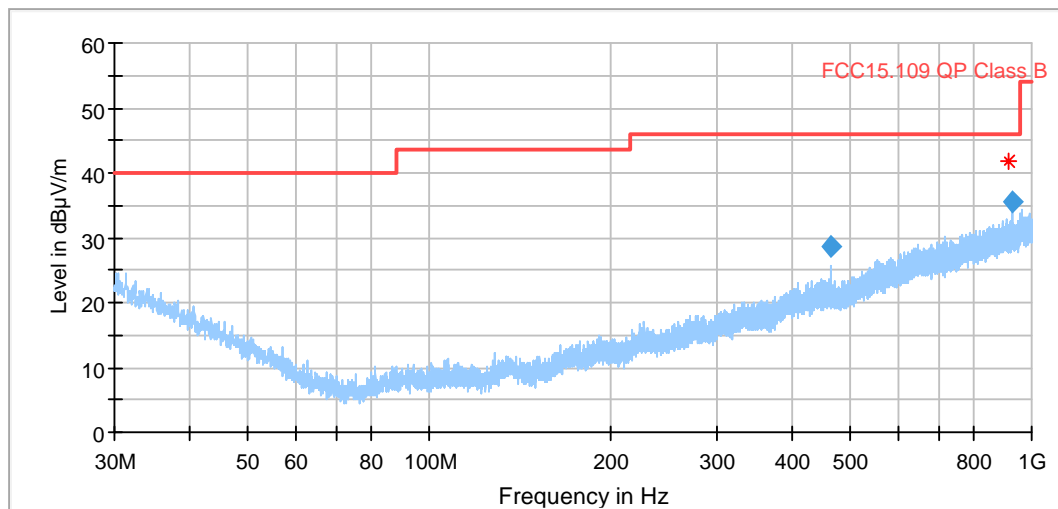
#### Common Information

Test Description:	Radiated field strength emission in 3 m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operating Mode:	1
Environmental Conditions::	Humidity : 40 %rH; Temperature: 21 °C
Operator:	JRi
Verdict:	Passed

#### EUT Information

PMT number:	20-1-01275S04_C01
Manufacturer:	ElektronikSystem i Umeå AB

Full Spectrum



#### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
928.400000	35.46	46.00	10.54	1000.0	120.000	178.0	H	7.0	26.8
462.480000	28.67	46.00	17.33	1000.0	120.000	156.0	H	6.0	22.1

### 4.01

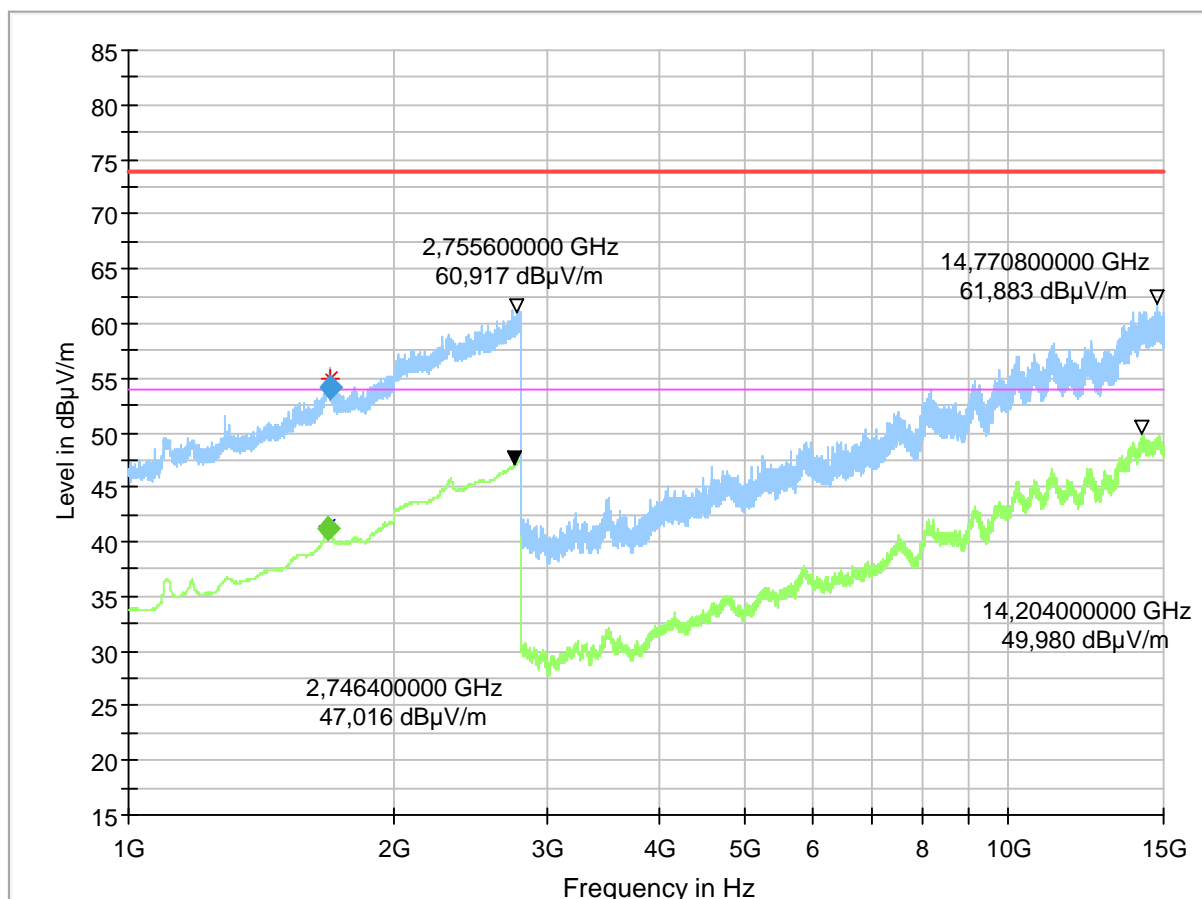
#### Common Information

Test Description:	Radiated Filed Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 15.109, class B / RSS-Gen., Issue 4
Operating Mode:	GPS receiving mode
Equipment Class:	Class B
Environmental Conditions::	Humidity : 55% rH; Temperature: 20°C
Operator:	Aho/Tfa
EUT Setup:	1
Verdict:	Passed
Comment:	

#### EUT Information

Verdict:	20-1-01275S04_C01
Comment:	ElektronikSystem i Umeå AB

Full Spectrum



#### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
1687.260000	---	54.00	12.69	100.0	1000.000	V	278.0	90.0	34
1690.540000	54.16	74.00	19.84	100.0	1000.000	V	61.0	0.0	34

# End Of Annex 1