

# Annex 1: Measurement diagrams to TEST REPORT No.: 16-1-0219301T11a

According to:  
**FCC Regulations**  
Part 22, Part 24, Part 27








**IC-Regulations**  
RSS-132 Issue 3, RSS-133 Issue 6  
RSS-139 Issue 2, RSS-Gen Issue 4

for

Actia Nordic

TEM4G Telematics Module  
+ Antenna 31409875

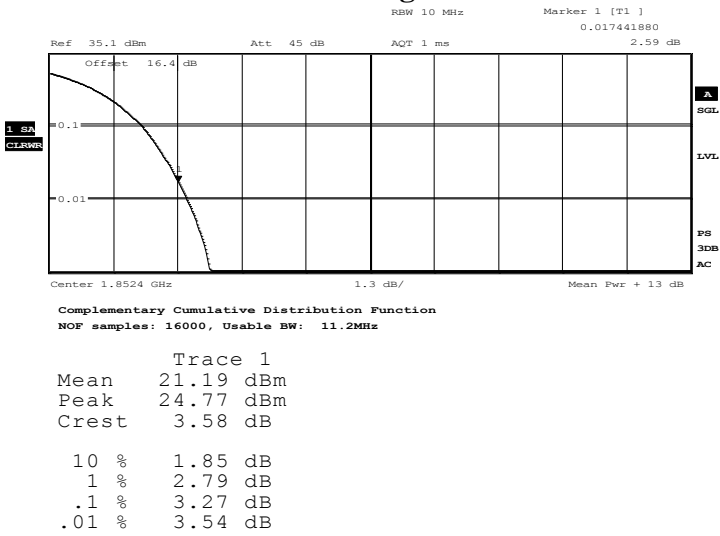
FCC-ID: 2AGKKTEM4G  
ISED: 20839-TEM4G  
PMN: TEM4G  
HVIN: TEM4G  
FVIN: 13

Laboratory Accreditation and Listings		
 Deutsche Akkreditierungsstelle D-PL-12047-01-01  Accredited EMC-Test Laboratory	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions  Reg. No.: R-20013, C-20009, T-20006, G-20013
 	 Lab Code: 20011130-00	 MRA US-EU 0003
accredited according to DIN EN ISO/IEC 17025		
<p align="center"><b>CETECOM GmbH</b>            Laboratory Radio Communications &amp; Electromagnetic Compatibility            Im Teelbruch 116 • 45219 Essen • Germany            Registered in Essen, Germany, Reg. No.: HRB Essen 8984            Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964            E-mail: info@cetecom.com • Internet: www.cetecom.com</p>		
Laboratory Accreditation and Listings		

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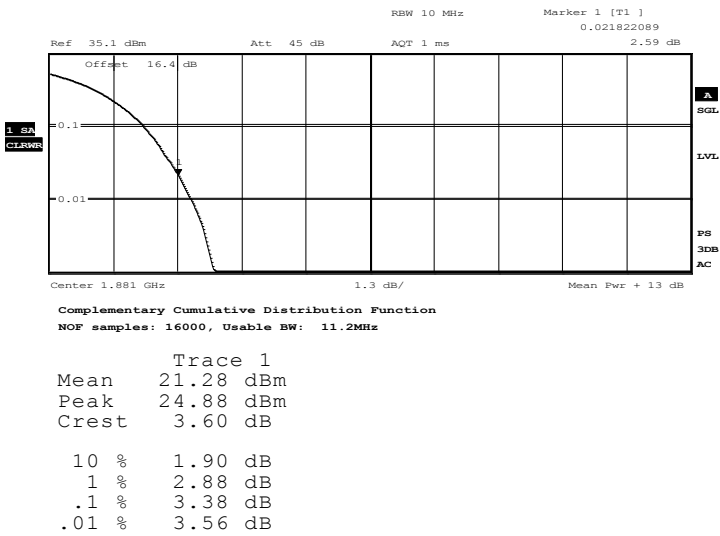
1. PAPR-Measurements (CCDF-plots)

1.1. FDD Band 2 transmitting mode



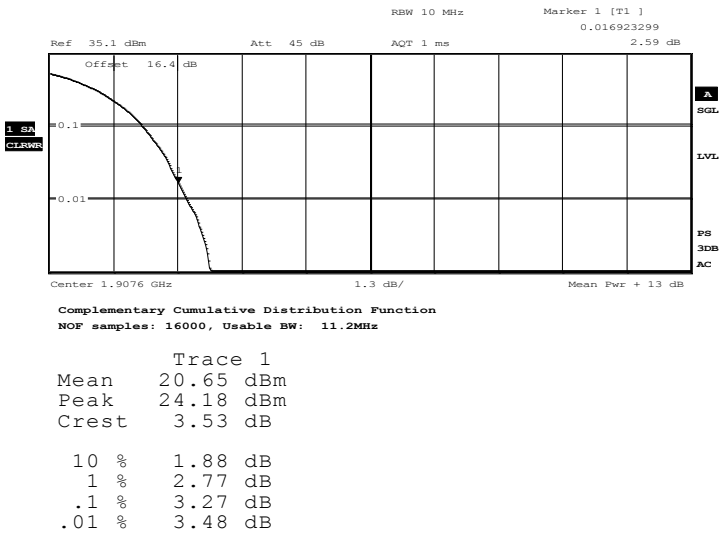
Date: 24.MAY.2017 12:23:23

Diagram 1: Channel 9262



Date: 24.MAY.2017 12:24:51

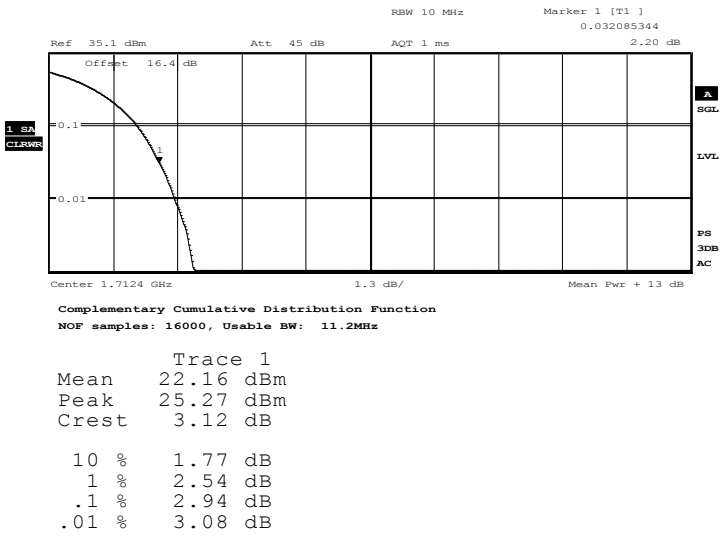
Diagram 2: Channel 9400



Date: 24.MAY.2017 12:25:43

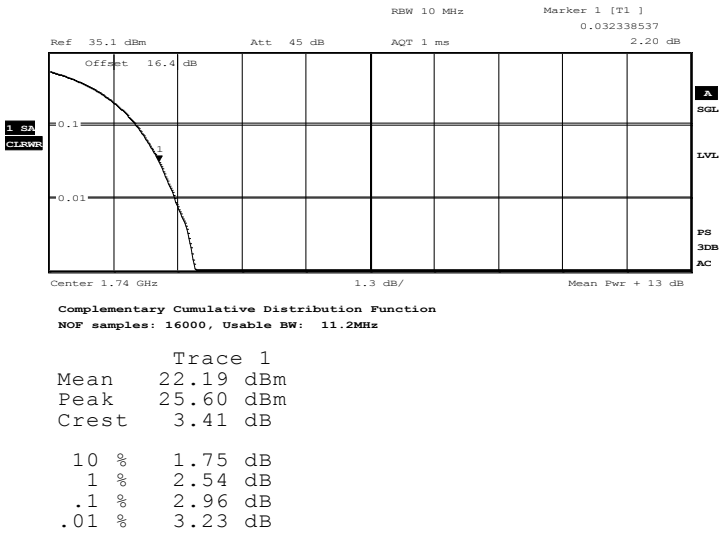
Diagram 3: Channel 9538

1.2. FDD Band 4 transmitting mode



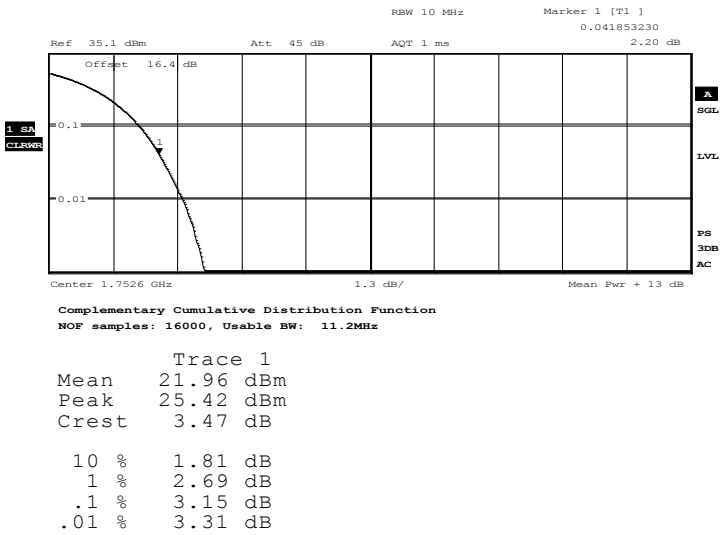
Date: 24.MAY.2017 12:31:16

Diagram 4: Channel



Date: 24.MAY.2017 12:32:18

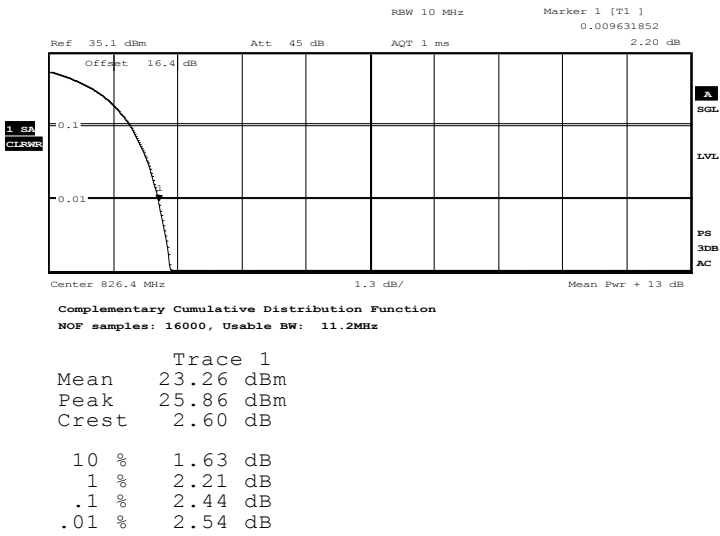
Diagram 5: Channel 1450



Date: 24.MAY.2017 12:34:24

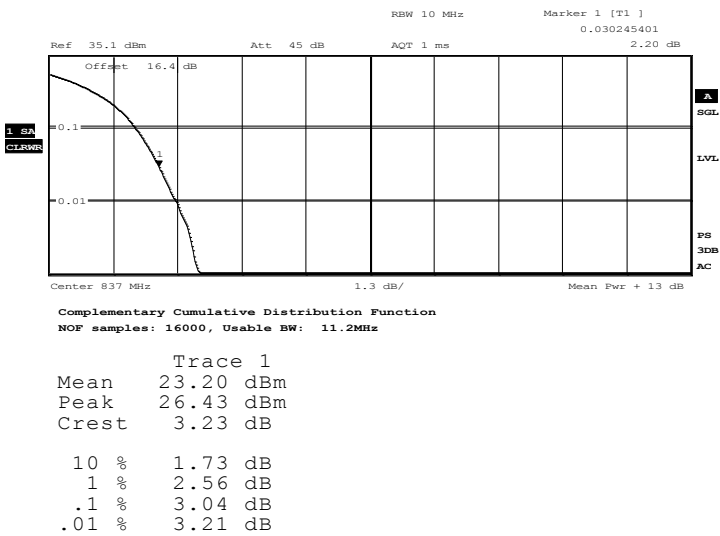
Diagram 6: Channel 1513

1.3. FDD Band 5 transmitting mode



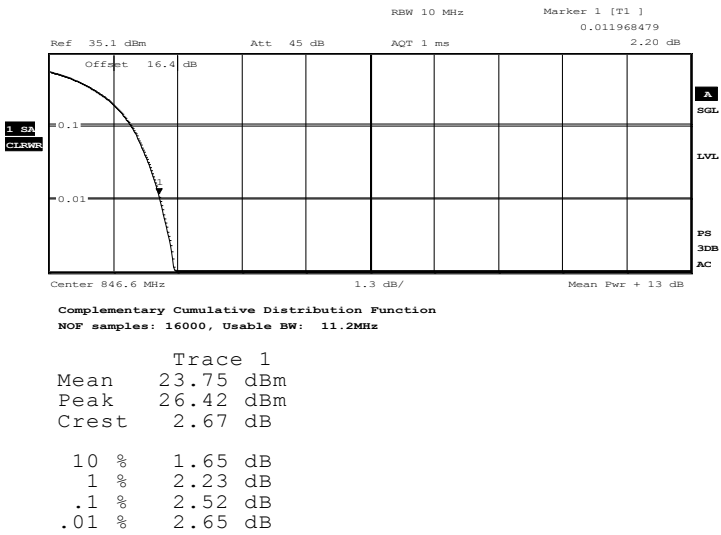
Date: 24.MAY.2017 12:27:55

Diagram 7: Channel 4132



Date: 24.MAY.2017 12:28:54

Diagram 8: Channel 4185



Date: 24.MAY.2017 12:29:47

Diagram 9: Channel 4233



## 2. Radiated emission measurements

### 2.1. Magnetic field emission measurements §15.209 (FDD Band 2 transmitting mode)

#### 2.04\_Ch9262\_FDD2\_RMC99\_extAnt\_standing

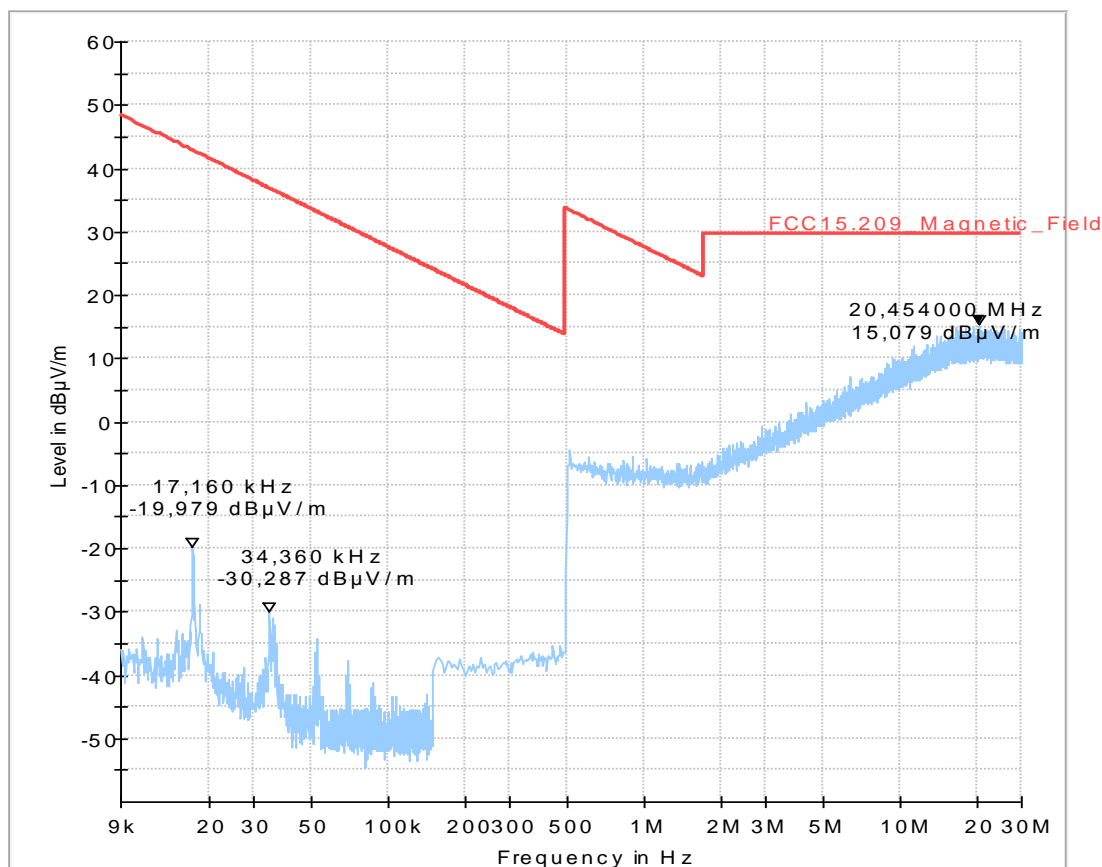
##### Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	RIs
Operating conditions:	TX-on
Power during tests:	12V DC

##### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



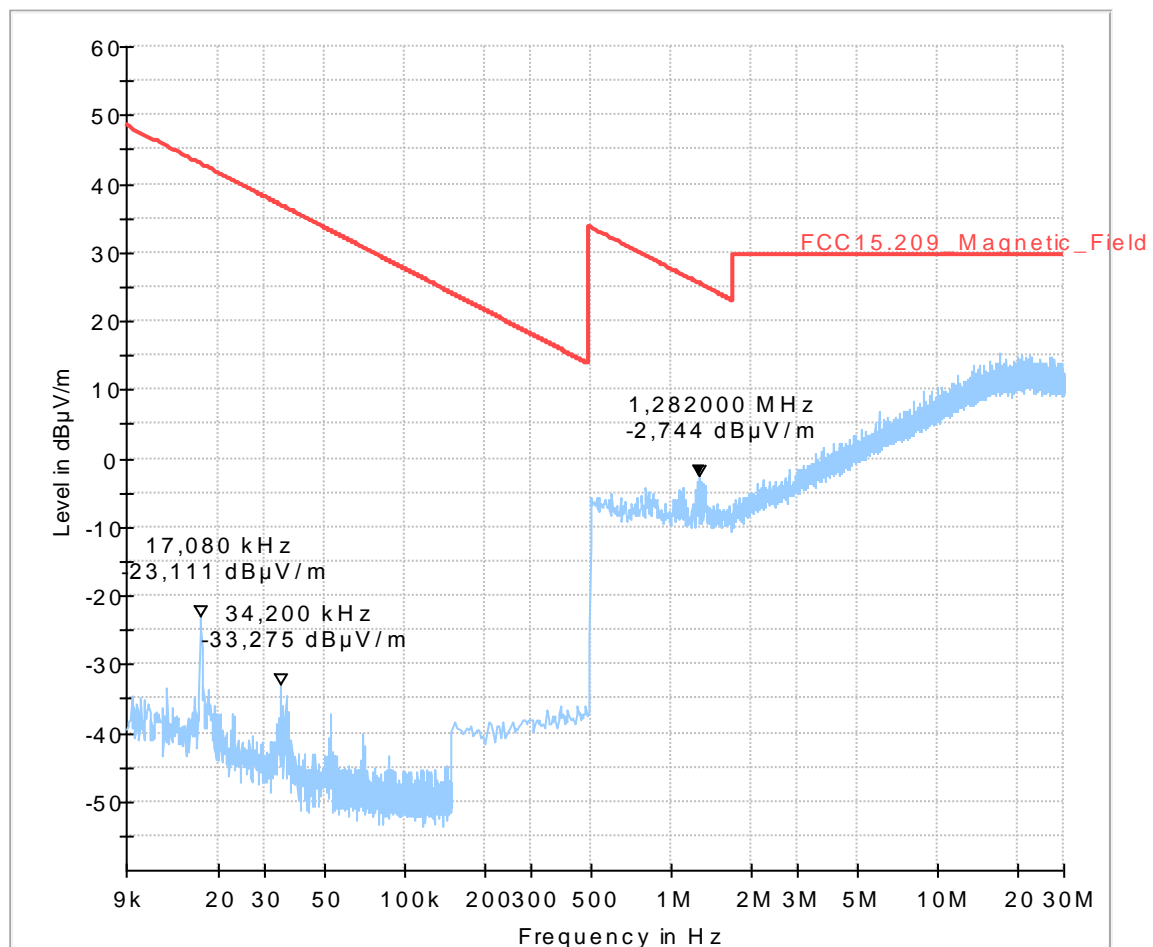
## 2.05\_Ch9538\_FDD2\_Audio\_intAnt\_standing

Test description:	Date: 05.06.2017 Page 1 of 3
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating mode:	Afr
Operating conditions:	UMTS FDD2 Voice Ch9538, Internal Antenna
Power during tests:	Humidity: 50%rH; Temperature: 21°C
DUT Position:	12V DC
	Standing

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



## 2.2. Magnetic field emission measurements §15.209 (FDD Band 4 transmitting mode)

### 2.08\_Ch1312\_FDD4\_RMC99\_extAnt\_standing

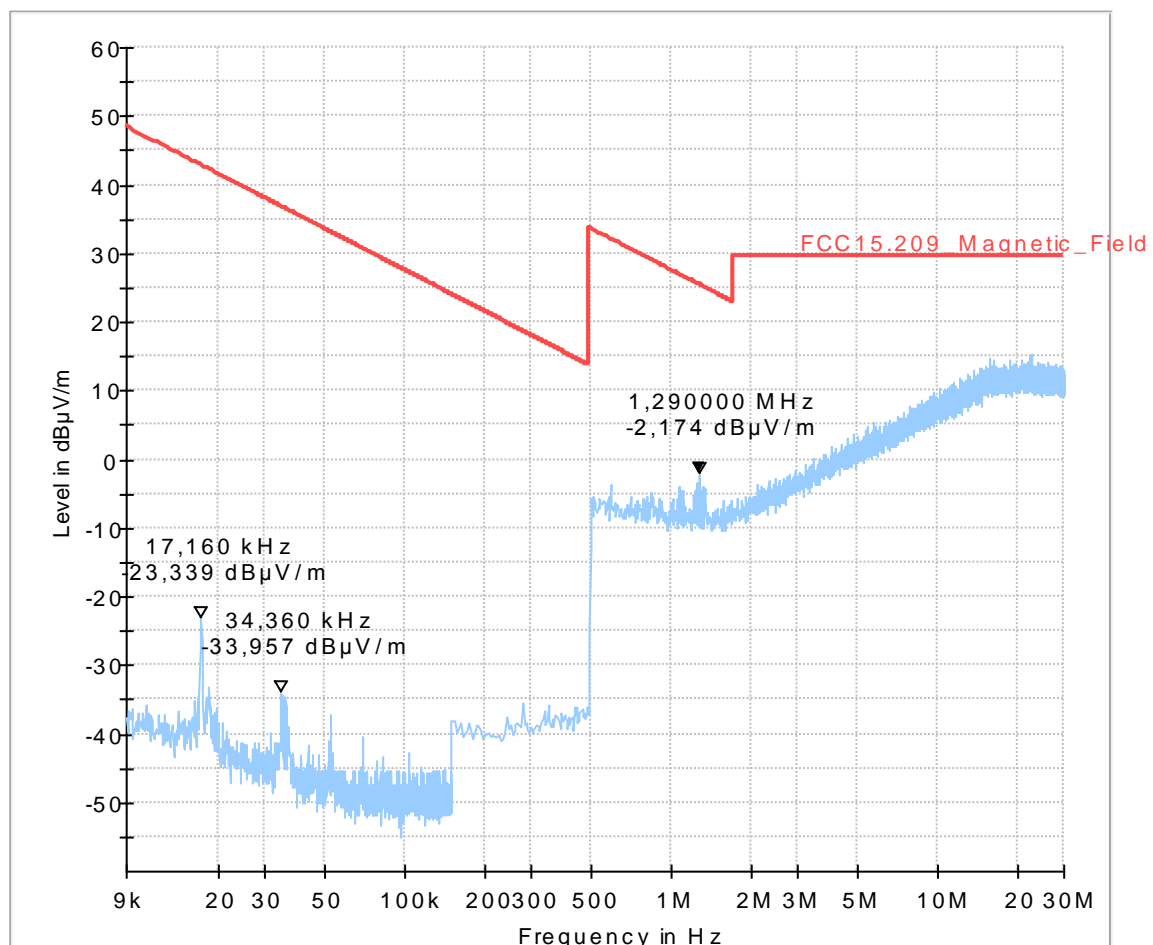
Date:	05.06.2017	Page 1 of 3
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	
Operator:	AFr	
Operating mode:	UMTS FDD4 Data Ch1312, External Antenna	
Operating conditions:	Humidity: 50%rH; Temperature: 21°C	
Power during tests:	12V DC	
DUT Position:	Standing	

#### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE

EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



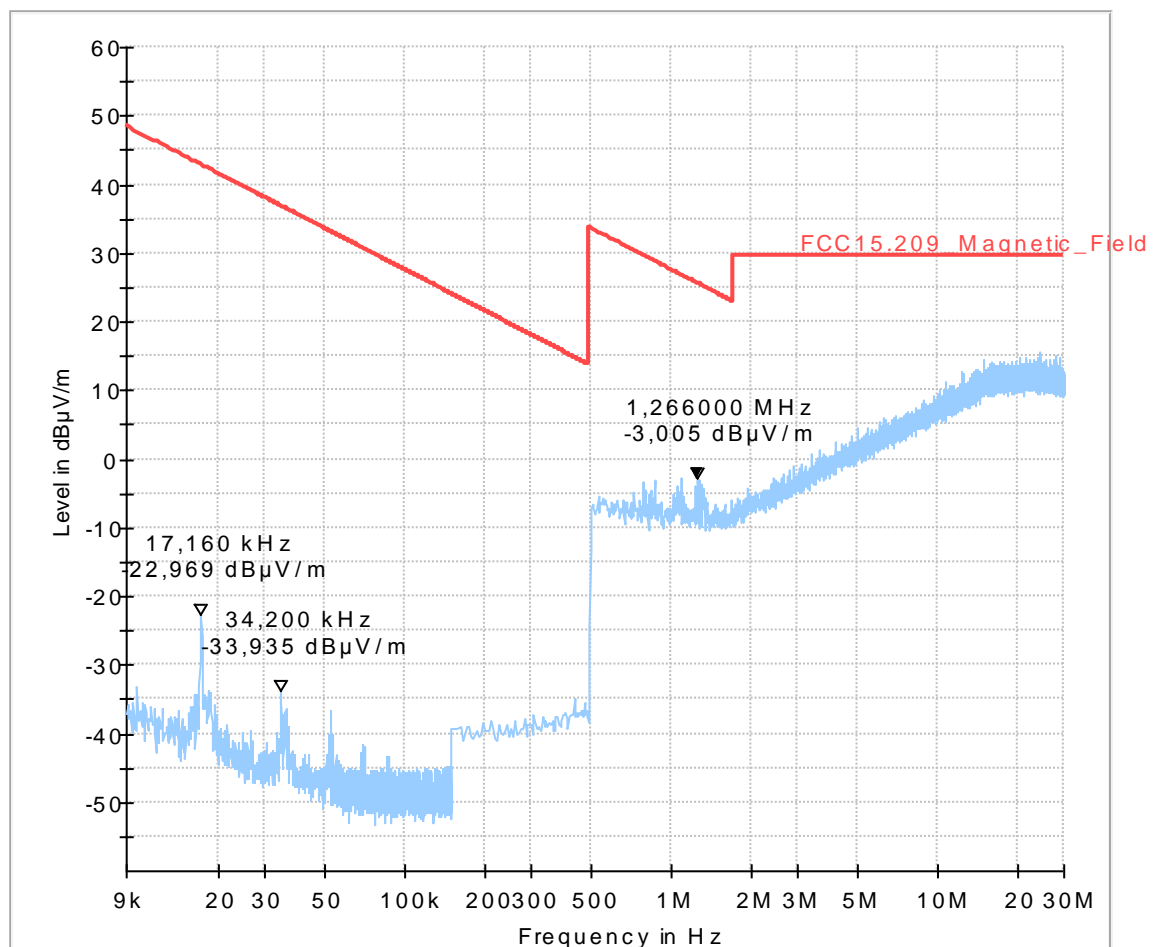
## 2.09\_Ch1513\_FDD4\_Audio\_intAnt\_standing

Test description:	Date: 05.06.2017 Page 1 of 3
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
Operator:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operating mode:	Afr
Operating conditions:	UMTS FDD4 Voice Ch1513, Internal Antenna
Power during tests:	Humidity: 50%rH; Temperature: 21°C
DUT Position:	12V DC
	Standing

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



## 2.3. Magnetic field emission measurements §15.209 (FDD Band 5 transmitting mode)

### 2.06\_Ch4132\_FDD5\_RMC99\_extAnt\_standing

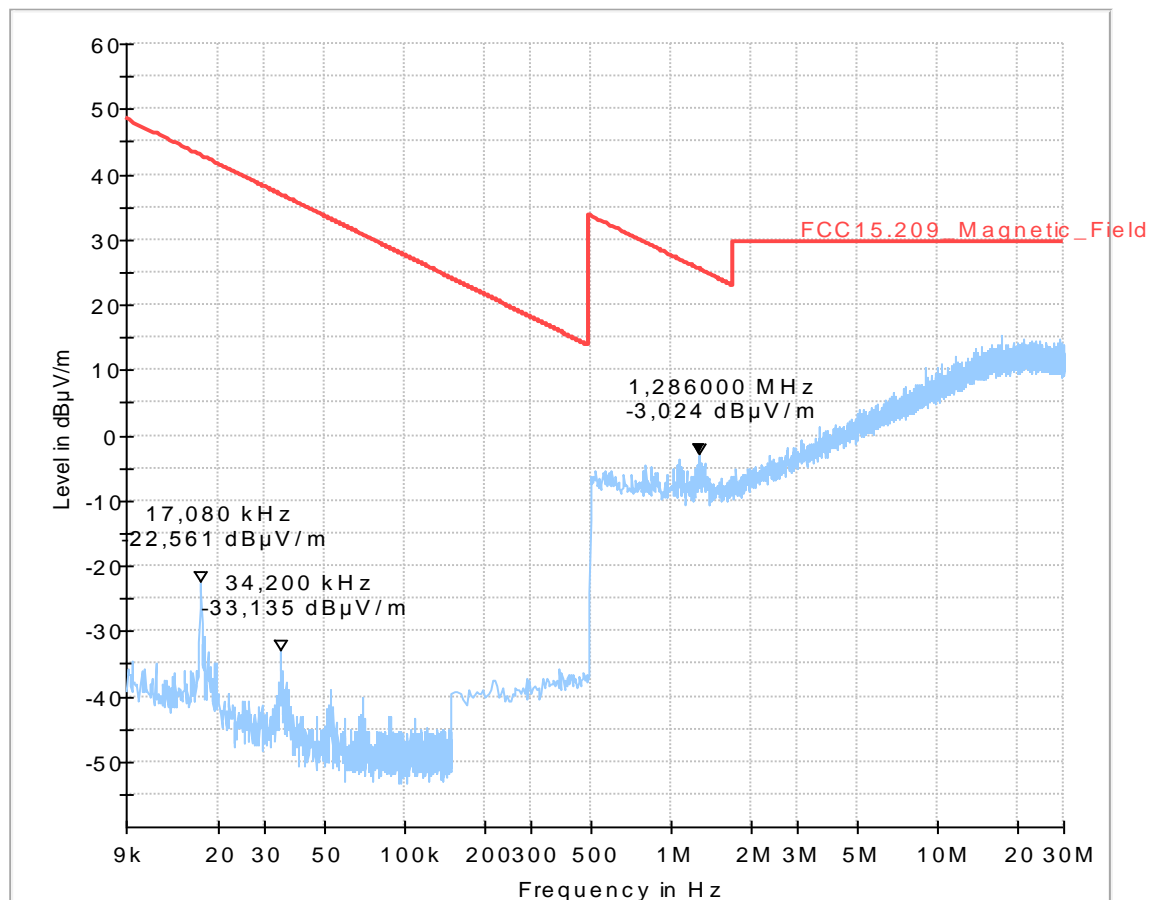
Date:	05.06.2017	Page 1 of 3
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V9.25.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4	
Operator:	AFr	
Operating mode:	UMTS FDD5 Data Ch4132, External Antenna	
Operating conditions:	Humidity: 50%rH; Temperature: 21°C	
Power during tests:	12V DC	
DUT Position:	Standing	

#### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE

EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



## 2.07\_Ch4233\_FDD5\_Audio\_intAnt\_standing

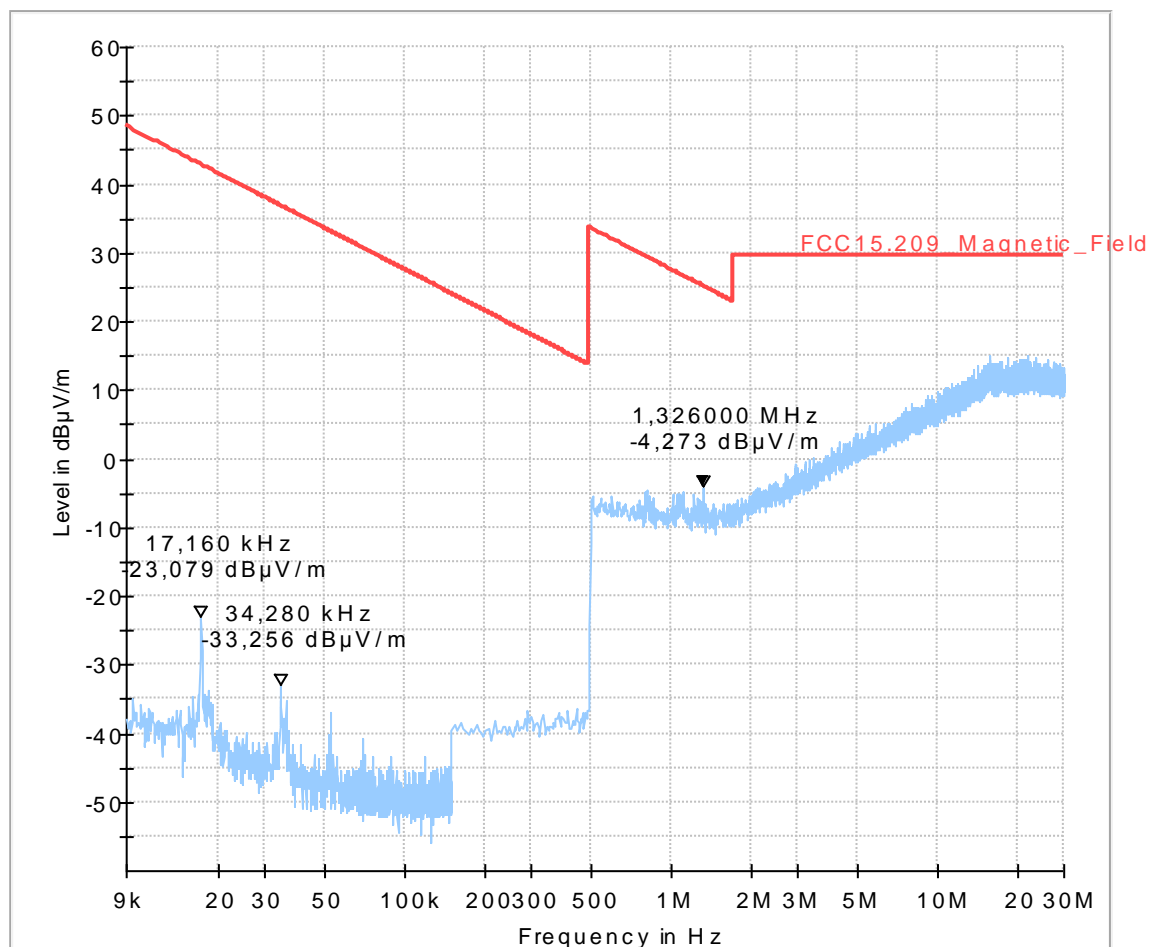
Test description:  
Test site and distance:  
Version of Testsoftware:  
Distance correction:  
Technical Data:  
Rec. antenna (pre-scan):  
Used filter:  
Test specification:  
Operator:  
Operating mode:  
Operating conditions:  
Power during tests:  
DUT Position:

Date: 05.06.2017 Page 1 of 3  
Magnetic Field Strength Measurement related to 30/300 m distance  
Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
EMC32 V9.25.0  
used accord. table, pls. see test report  
Please see page 2 for detailed data of measurement setup  
height 1.00 m, parallel and 90° to EUT polarisation  
bypass  
FCC 15.205 § 15.209; RSS-Gen: Issue 4  
AFr  
UMTS FDD5 Voice Ch4233, Internal Antenna  
Humidity: 50%rH; Temperature: 21°C  
12V DC  
Standing

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum





## 2.4. Spurious emissions radiated (FDD Band 2 transmitting mode)

### 8.20a\_RSE\_R\_Ch9262\_RMC

#### Common Information

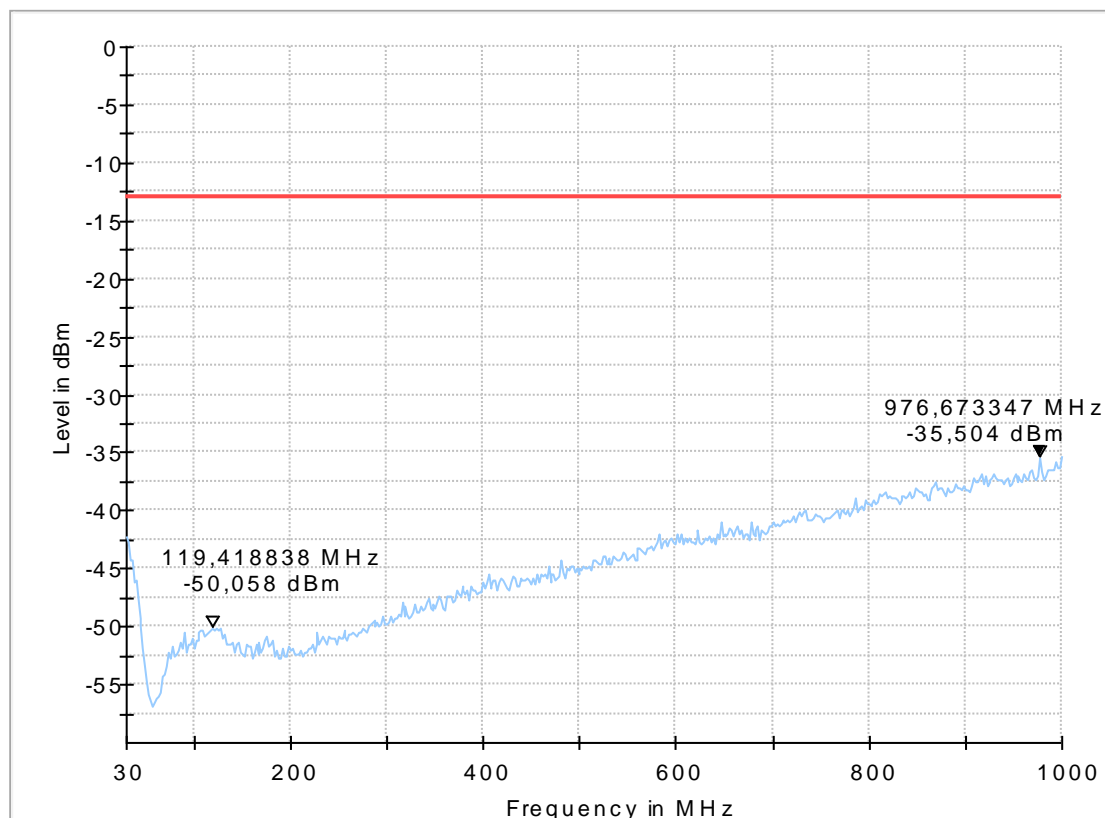
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24 / RSS-133
Operating Mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	Rls
Remark:	External Antenna, RMC Mode

#### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE

EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum





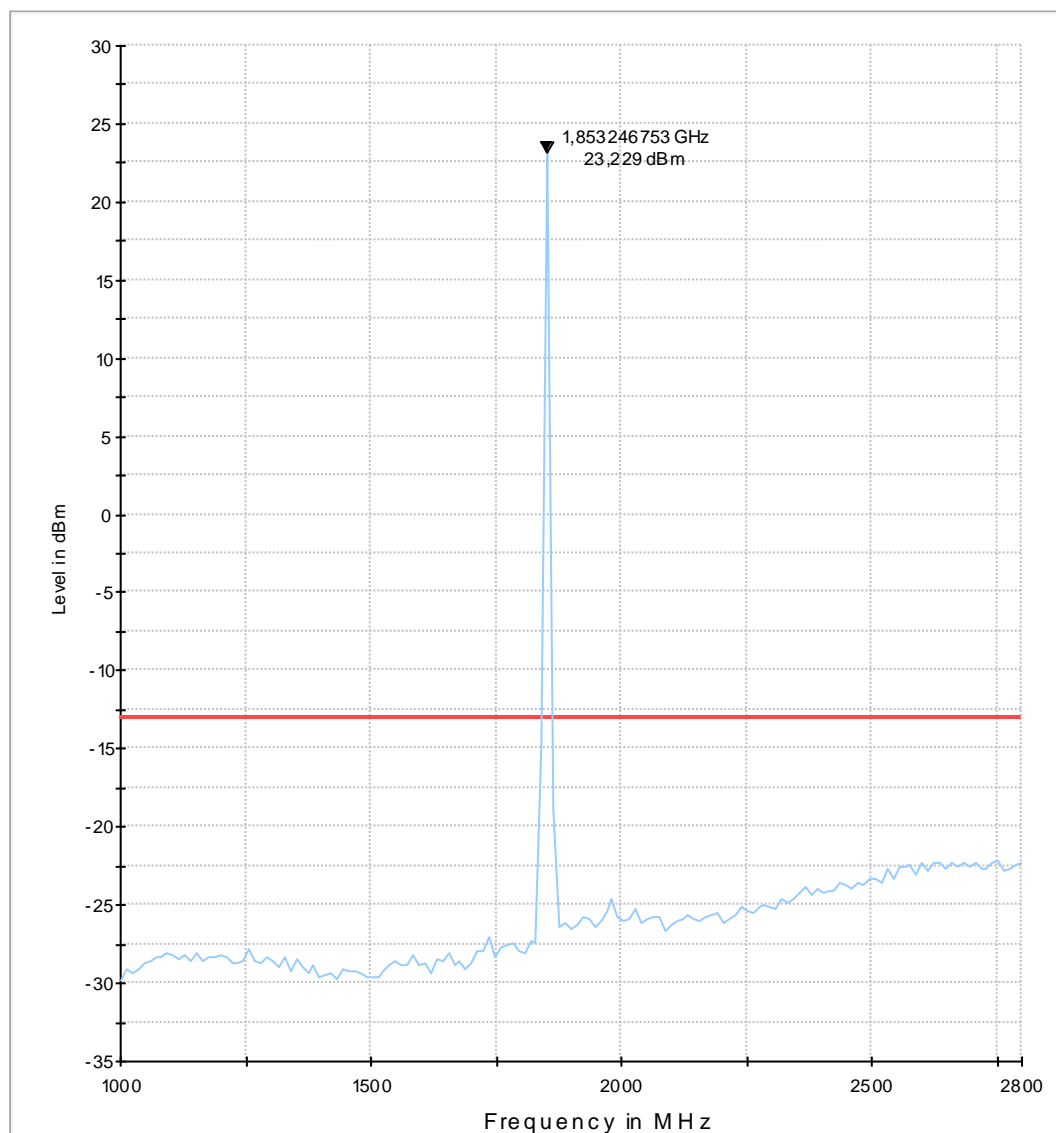
## 8.20b\_RSE\_R\_Ch9262\_RMC\_1G-2.8G

### Common Information

Test Description:	Radiated Spurious Emissions UMTS
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC Part 24 / RSS-133
Test Case:	UMTS Band 2, RMC, Ch. 9262
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator Name:	PSa

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	H1
Power Supply:	12V
Comments:	-



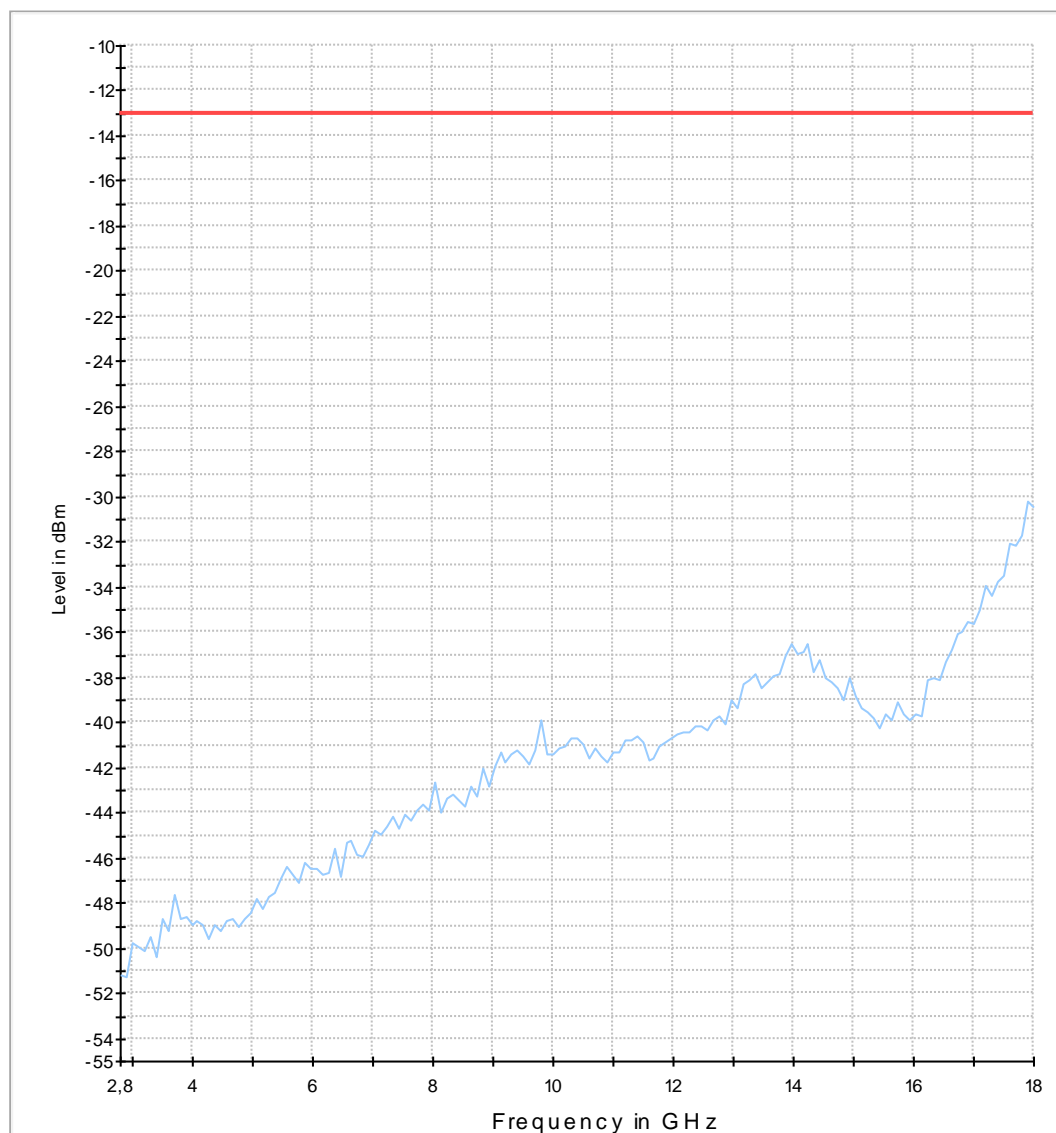
## 8.20c\_RSE\_R\_Ch9262\_RMC\_2.8G-18G

### Common Information

Test Description:	Radiated Spurious Emissions UMTS
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC Part 24 / RSS-133
Test Case:	UMTS Band 2, RMC, Ch. 9262
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator Name:	PSa

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	H1
Power Supply:	12V
Comments:	-



## 8.25a\_RSE\_R\_Ch9538\_Audio

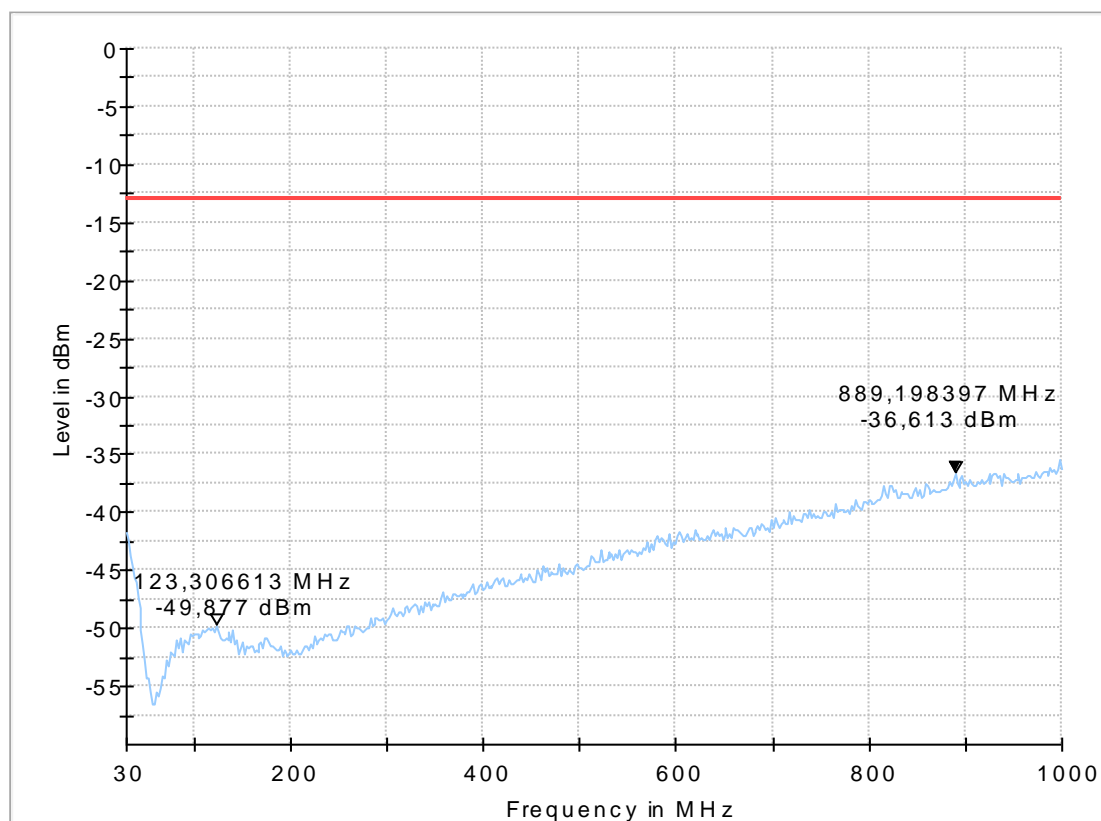
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9538 (fc = 1907.6 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	RLs
Remarks:	Internal Antenna, Voice Mode

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
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EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



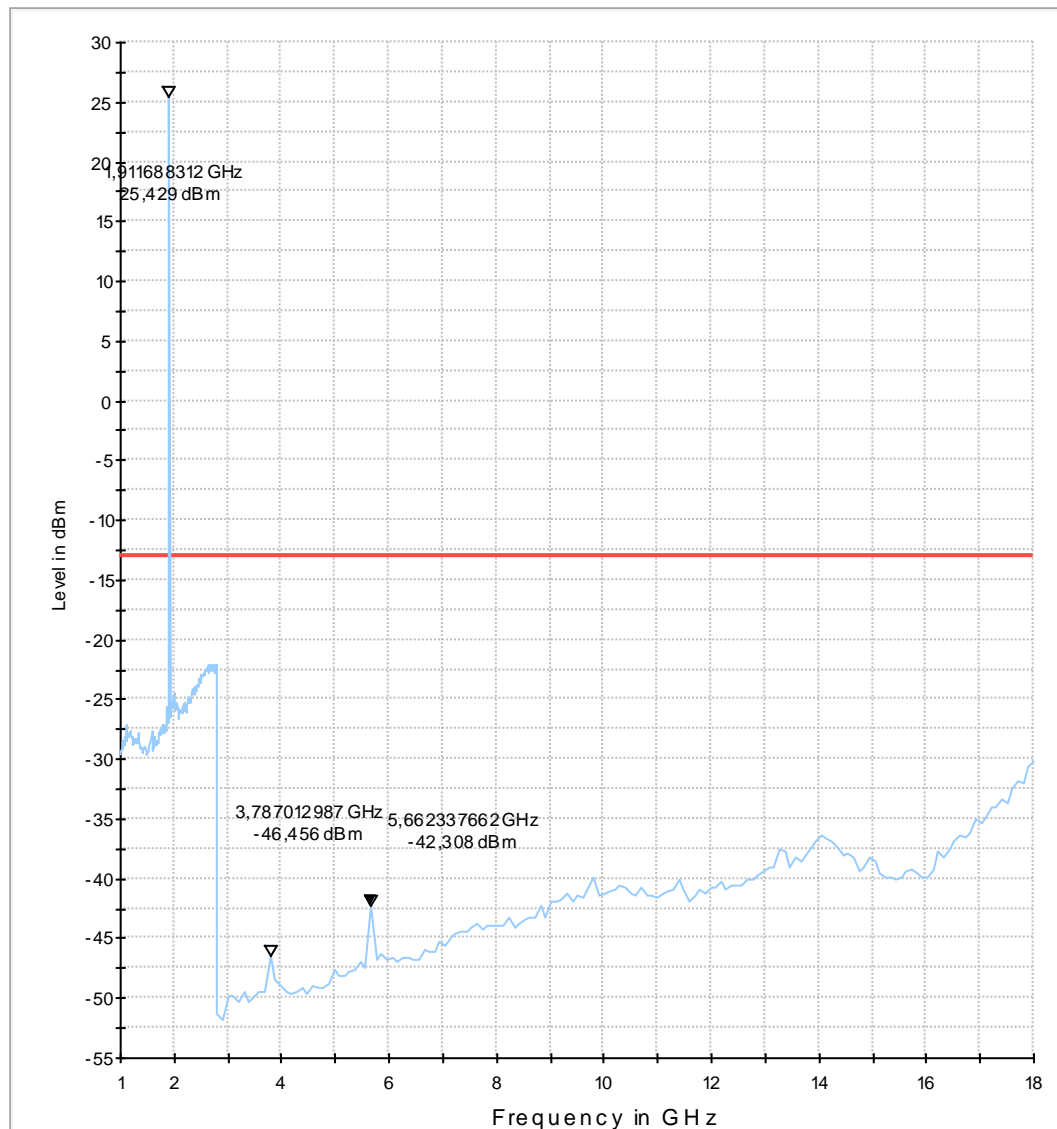
## 8.25b\_RSE\_R\_Ch9538\_Voice\_1G-18G

### Common Information

Test Description:	Radiated Spurious Emissions UMTS
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24
Test Case:	UMTS Band 2, Voice, Ch. 9538
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator Name:	PSa

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	H1
Power Supply:	12V
Comments:	-





2.5. Radiated emissions on FDD Band 2 band-edge

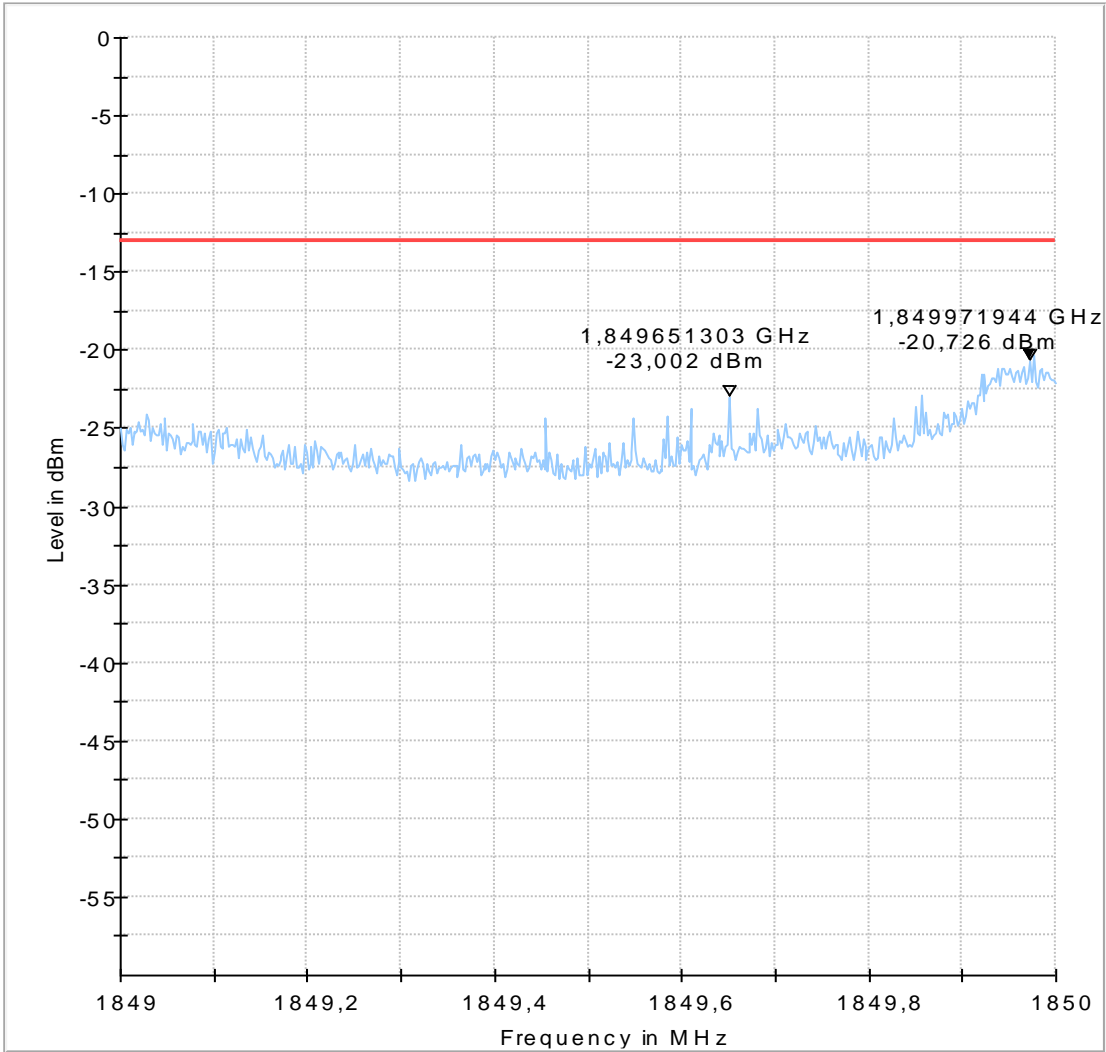
9.20a\_BE\_R\_Ch9262\_RMC

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Test Standard:	FCC Part 24
Operation mode:	UE allocated channel 9262 (fc = 1852.4 MHz)
Operator Name:	Rls
Comment:	External Antenna, RMC Mode

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-



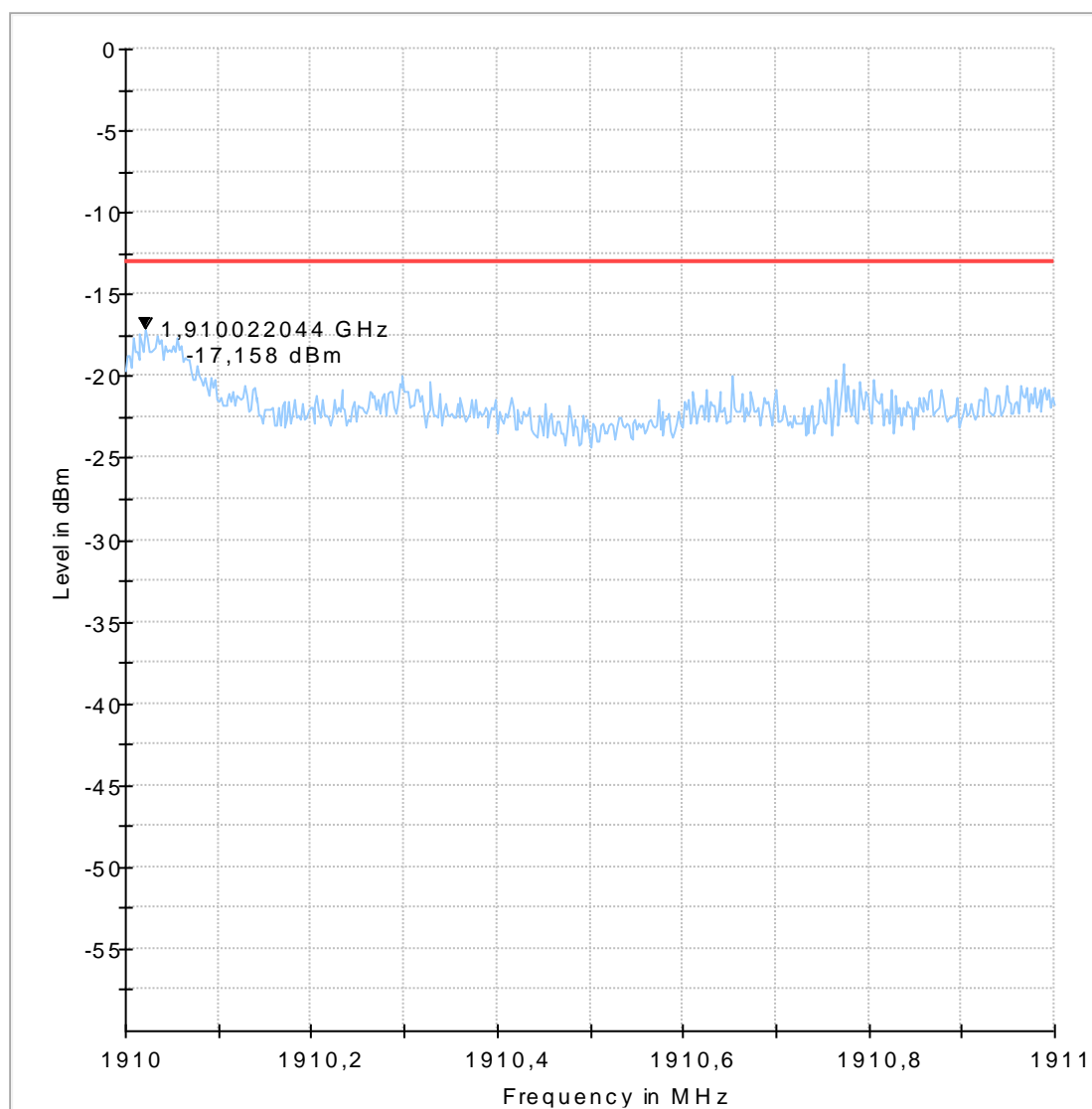
## 9.23a\_BE\_R\_Ch9538\_Audio

### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Test Standard:	FCC Part 24
Operation mode:	UE allocated channel 9538 (fc = 1907.6 MHz)
Operator Name:	Rls
Comment:	Internal Antenna, Voice Mode

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-



2.6. Spurious emissions radiated (FDD Band 4 transmitting mode)

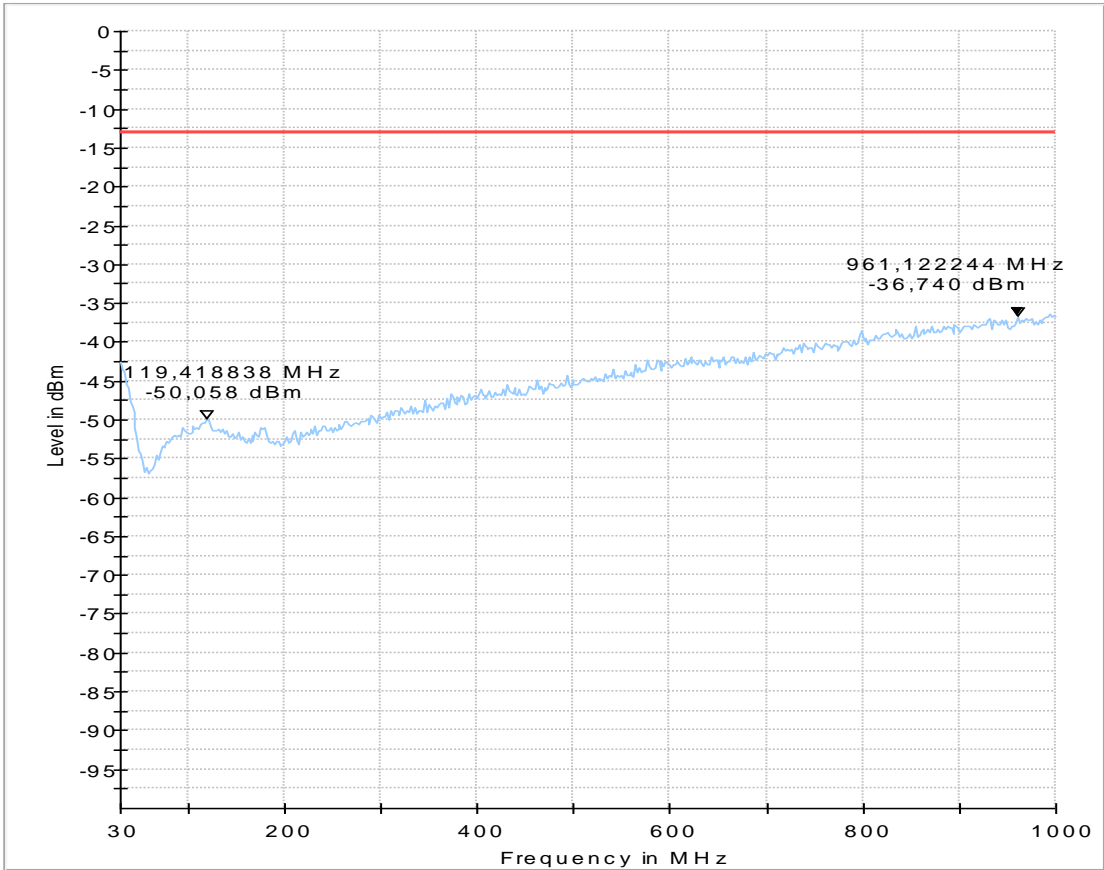
8.40a\_RSE\_R\_Ch1312\_RMC

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	UE allocated channel 1312 (fc = 1712.4 MHz)
Operator Name:	Rls
Comment:	External Antenna, RMC Mode

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-





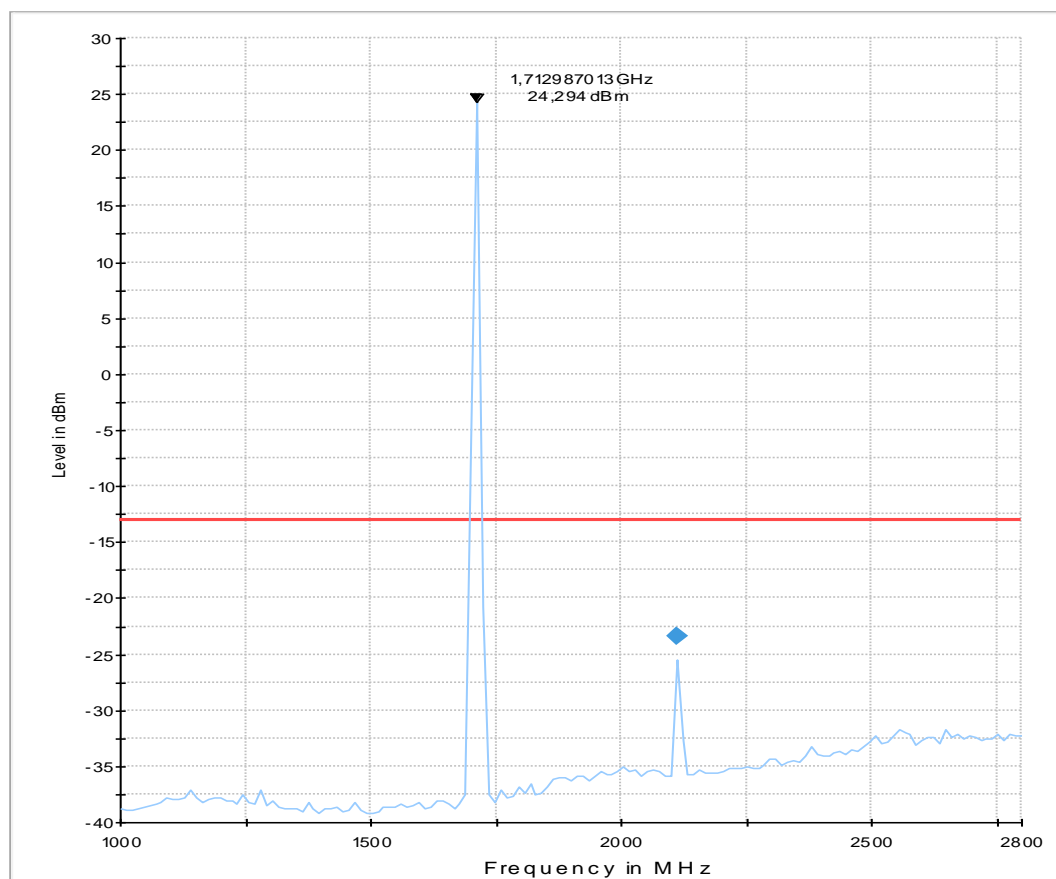
## 8.40b\_RSE\_R\_Ch1312\_RMC\_1G-2.8G

### Common Information

Test Description: Radiated Spurious Emissions UMTS  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Room (FAR)  
 Test Standard: FCC Part 27 / RSS-139  
 Test Case: UMTS Band 4, RMC, Ch. 1312  
 Environment Conditions: Humidity: 46%rH; Temperature: 20°C  
 Operator Name: PSa

### EUT Information

Manufacturer: ACTIA NORDIC AB  
 Model: TEM4G  
 EUT Type: TELEMATICS MODULE  
 S/N: 20071090026  
 HW Version: H1  
 Power Supply: 12V  
 Comments: -



### Final Result 1

Frequency (MHz)	MaxPeak (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
2113.376623	-23.4	10000.0	1000.000	V	121.0	42.0	-64.6	10.4	-13.0

Remark: Downlink communication signal - > not relevant for result

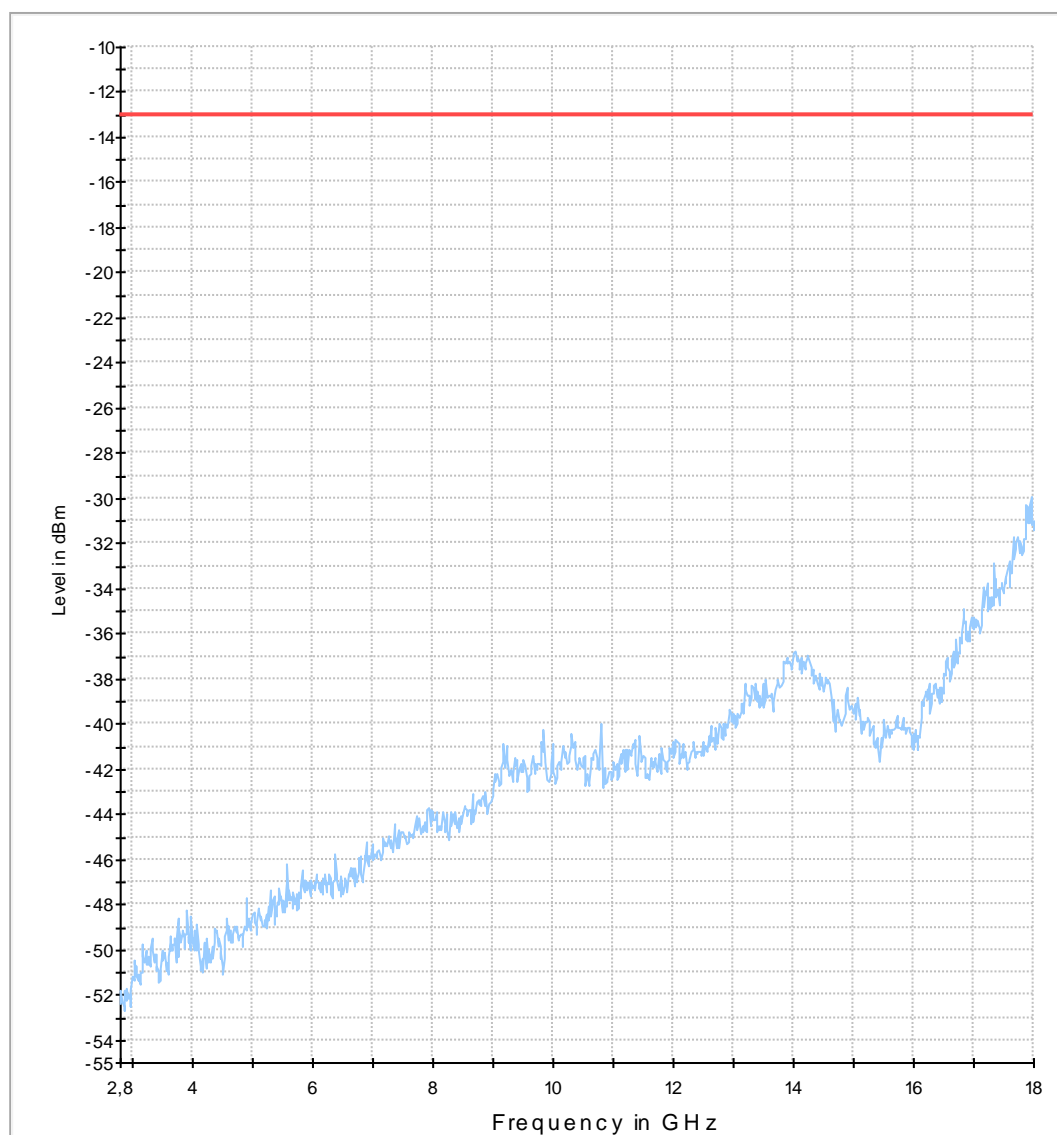
## 8.40c\_RSE\_R\_Ch1312\_RMC\_2.8G-18G

### Common Information

Test Description:	Radiated Spurious Emissions UMTS
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27 / RSS-139
Test Case:	UMTS Band 4, RMC, Ch. 1312
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator Name:	PSa

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	H1
Power Supply:	12V
Comments:	-



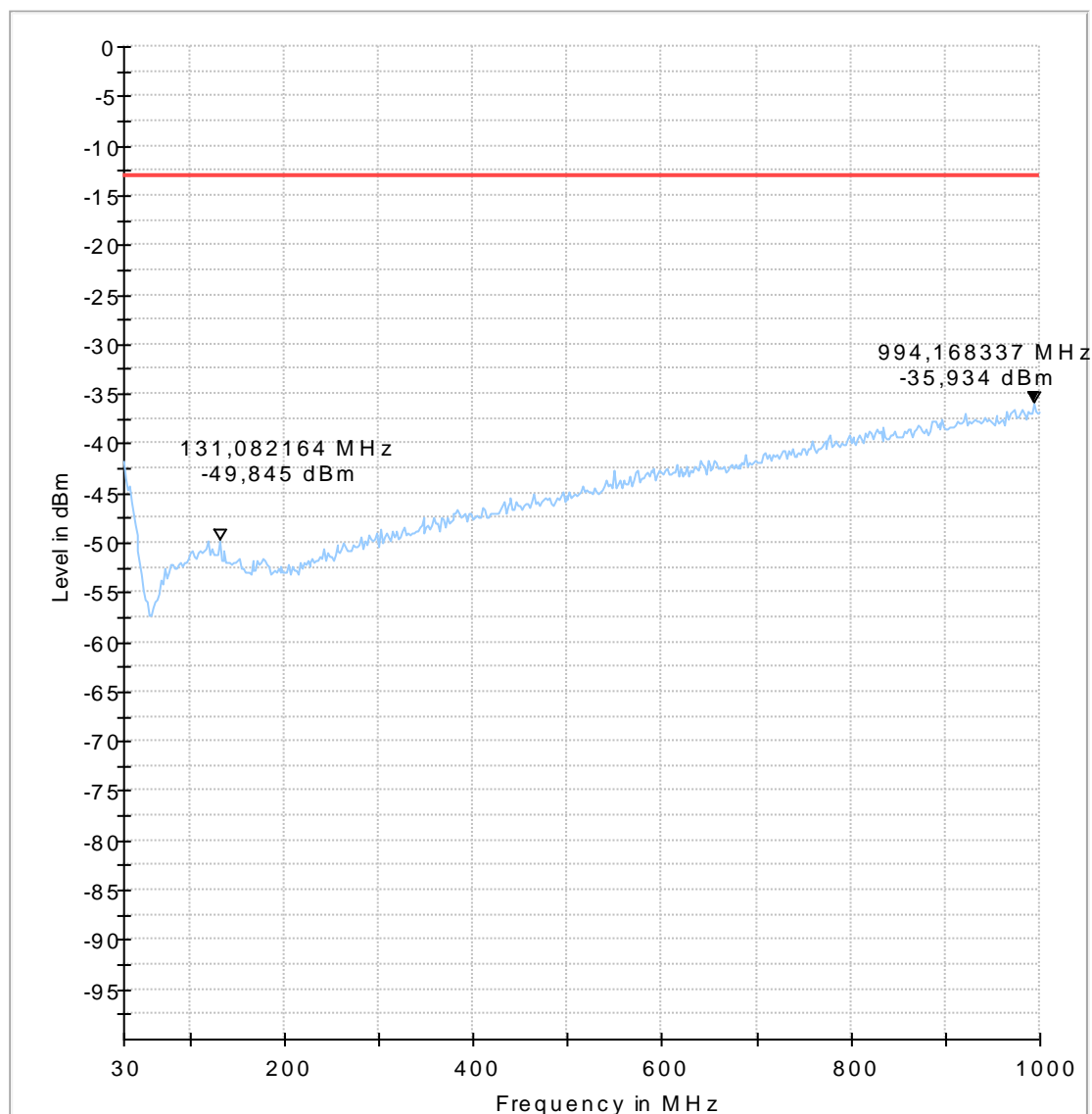
## 8.45a\_RSE\_R\_Ch1513\_Audio

### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	UE allocated channel 1513 (fc = 1752.6 MHz)
Operator Name:	Rls
Comment:	Internal Antenna, Voice Mode

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-



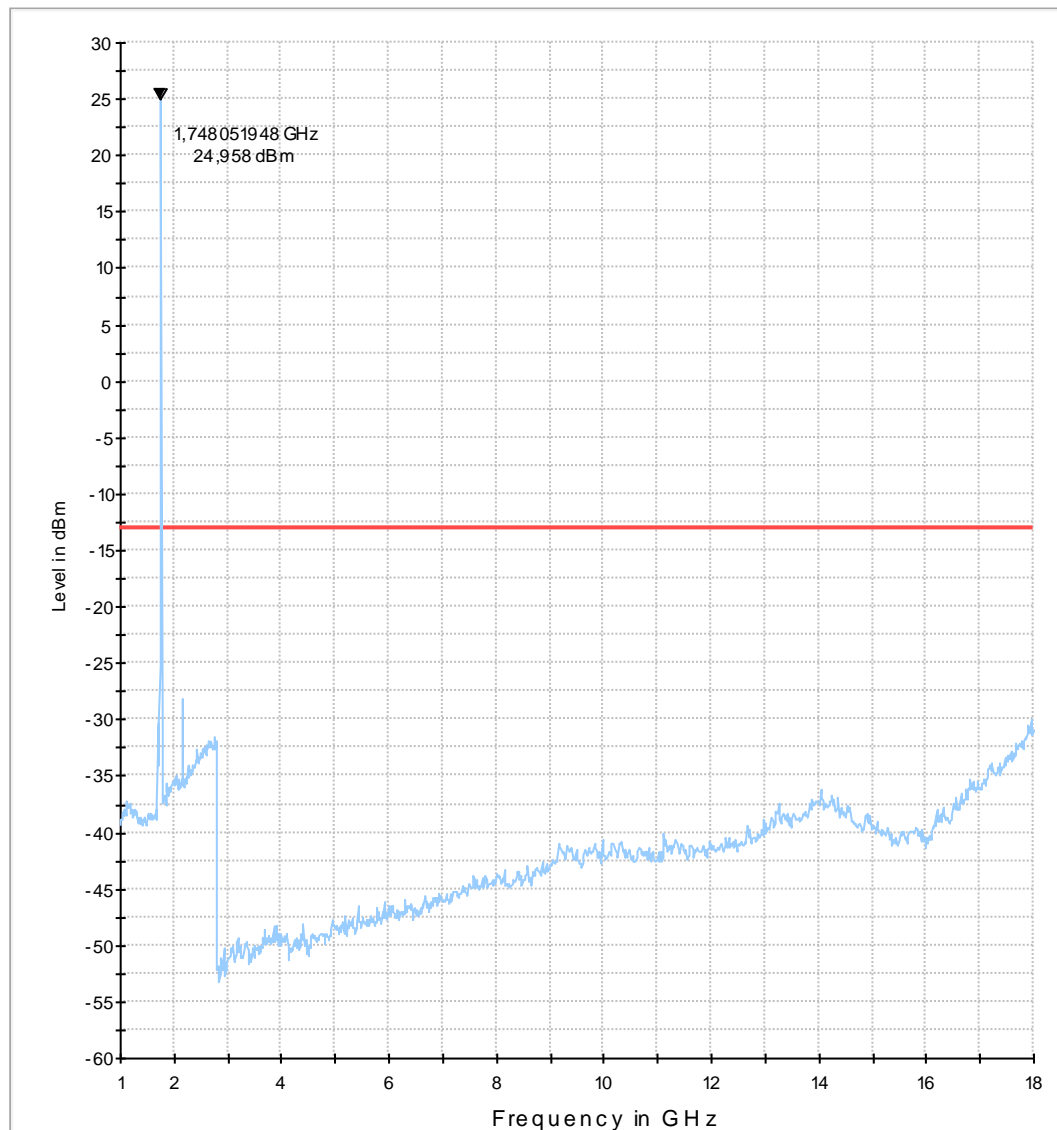
## 8.45b\_RSE\_R\_Ch1513\_Voice\_1G-18G

### Common Information

Test Description:	Radiated Spurious Emissions UMTS
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 27 / RSS-139
Test Case:	UMTS Band 4, Voice, Ch. 1513
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator Name:	PSa

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	H1
Power Supply:	12V
Comments:	-



2.7. Radiated emissions on FDD Band 4 band-edge

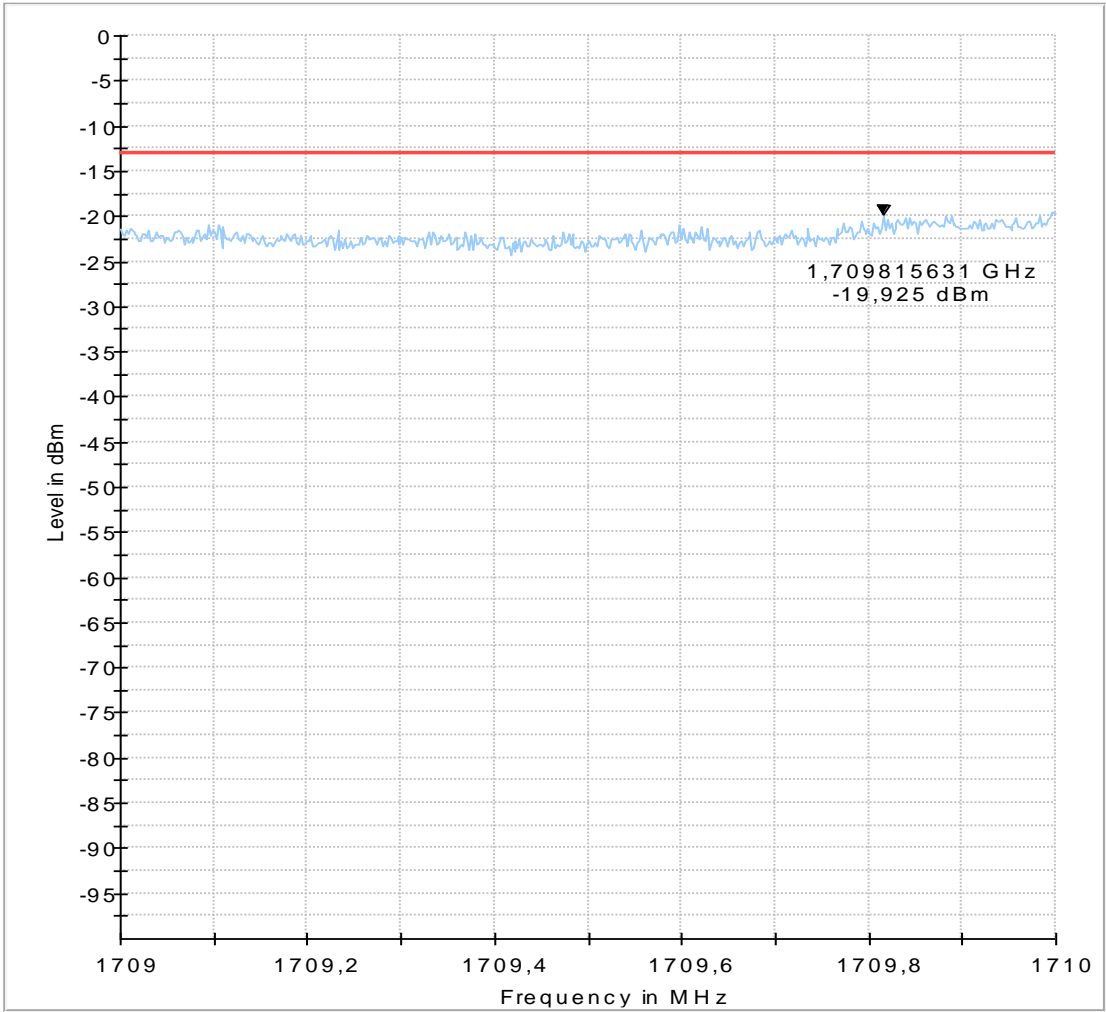
9.40\_BE\_R\_Ch1312\_RMC

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC Part 27 / RSS-139
Antenna polarisation:	horizontal/vertical
Operation mode:	UE allocated channel 1312 (fc = 1712.4 MHz)
Operator Name:	Rls
Comment:	External Antenna, RMC Mode

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-



## 9.43\_BE\_R\_Ch1513\_Audio

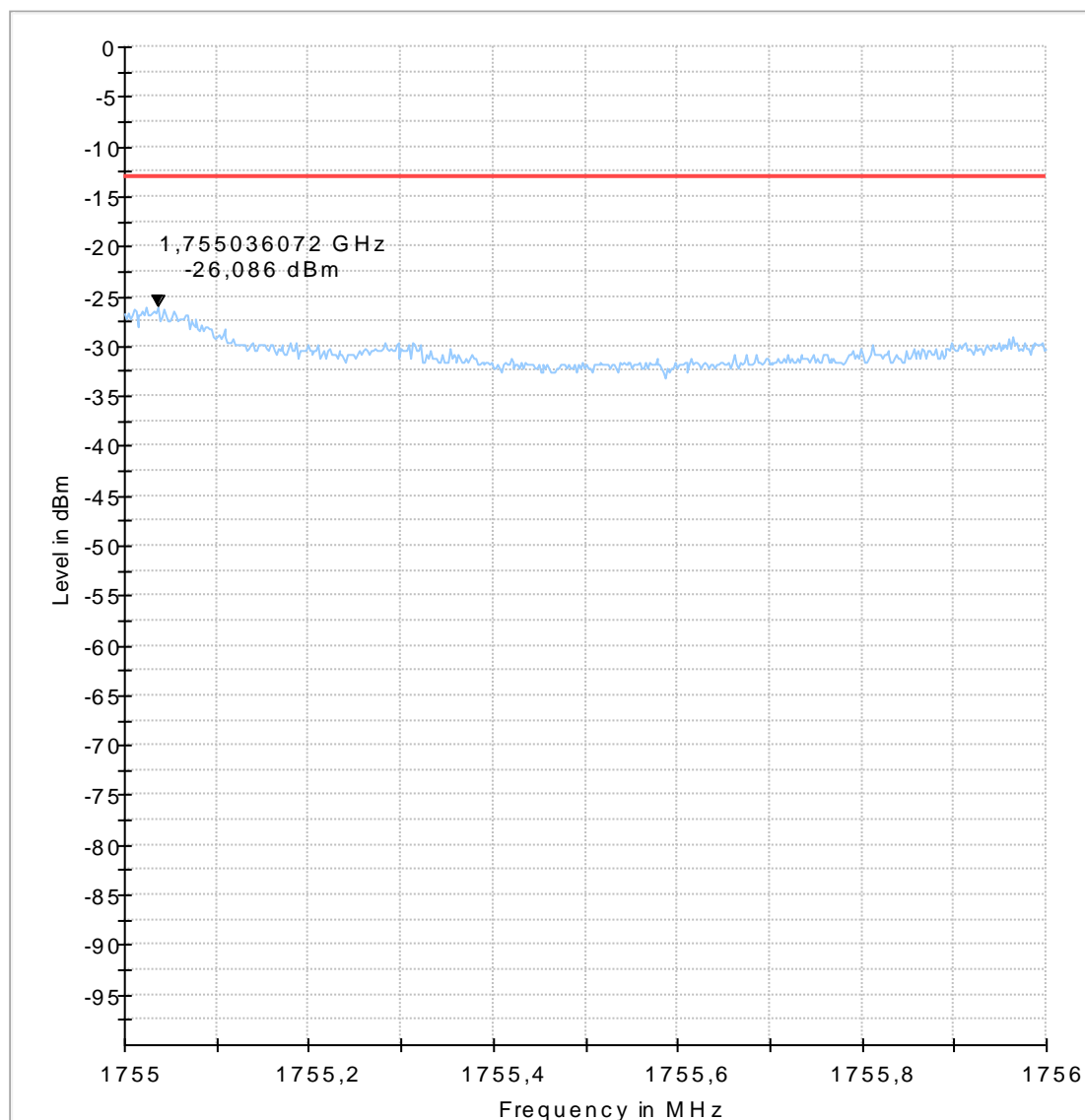
### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC Part 27 / RSS-139
Antenna polarisation:	horizontal/vertical
Operation mode:	UE allocated channel 1513 (fc = 1752.6 MHz)
Operator Name:	RLs
Comment:	Internal Antenna, Voice Mode

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE

EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-



## 2.8. Spurious emissions radiated (FDD Band 5 transmitting mode)

### 8.50a\_RSE\_R\_Ch4132\_RMC

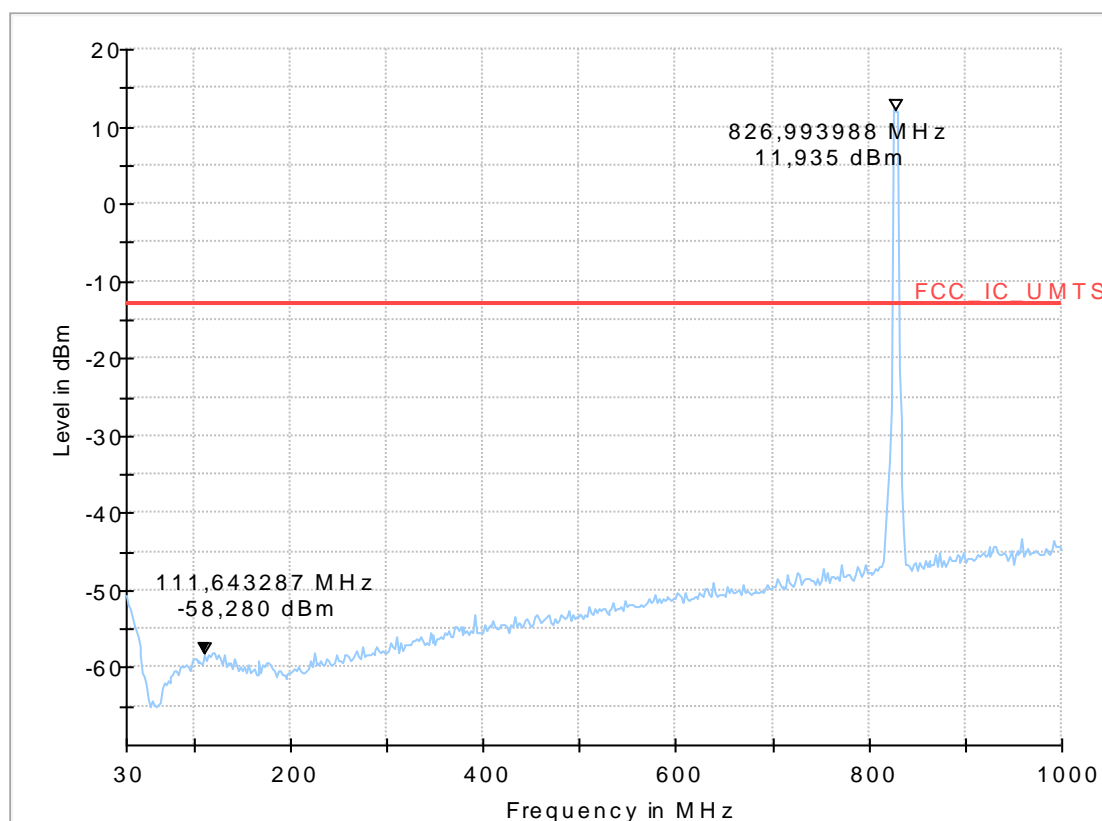
#### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a) / RSS-132
Operating Mode:	UE allocated channel 4132 (fc = 826.6 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	RI
Remark:	External Antenna, RMC Mode

#### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



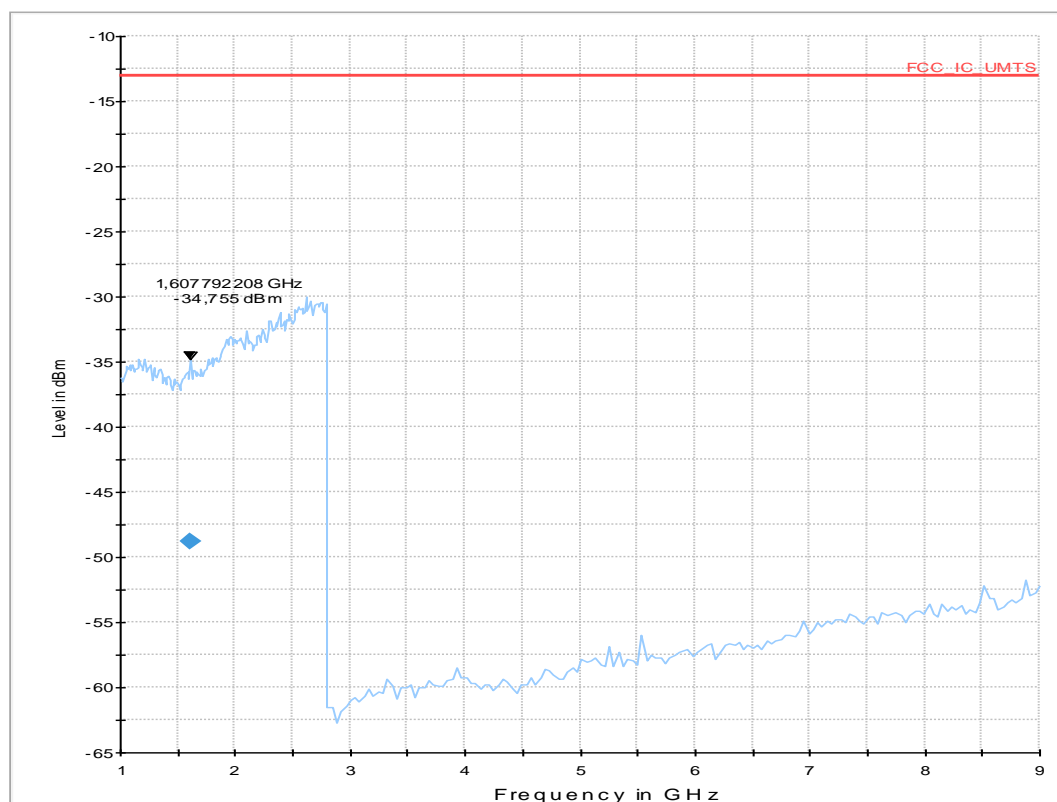
## 8.50\_RSE\_R\_Ch4132\_RMC\_1G-9G

### Common Information

Test Description:	Radiated Spurious Emissions UMTS
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22 / RSS-132
Test Case:	UMTS Band 5, RMC, Ch. 4132
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator Name:	PSa

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	H1
Power Supply:	12V
Comments:	-



### Final Result 1

Frequency (MHz)	RMS (dBm)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBm)
1608.961039	-48.8	1000.0	100.000	155.0	V	-30.0	-3.0	-66.9	35.8	-13.0

(continuation of the "Final Result 1" table from column 11 ...)

Frequency (MHz)	Comment
1608.961039	



## 8.55a\_RSE\_R\_Ch4233\_Audio

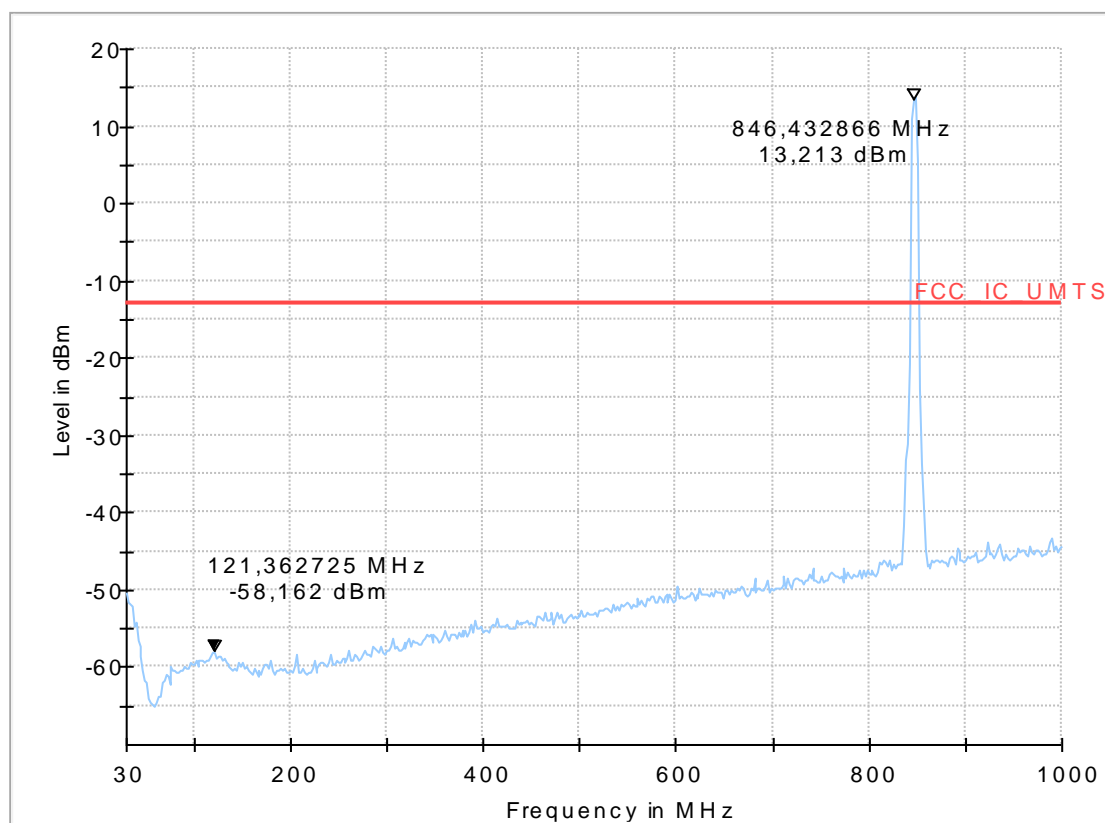
### Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a) / RSS-132
Operating Mode:	UE allocated channel 4233 (fc = 846.6 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	RLs
Remark:	Internal Antenna, Voice Mode

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



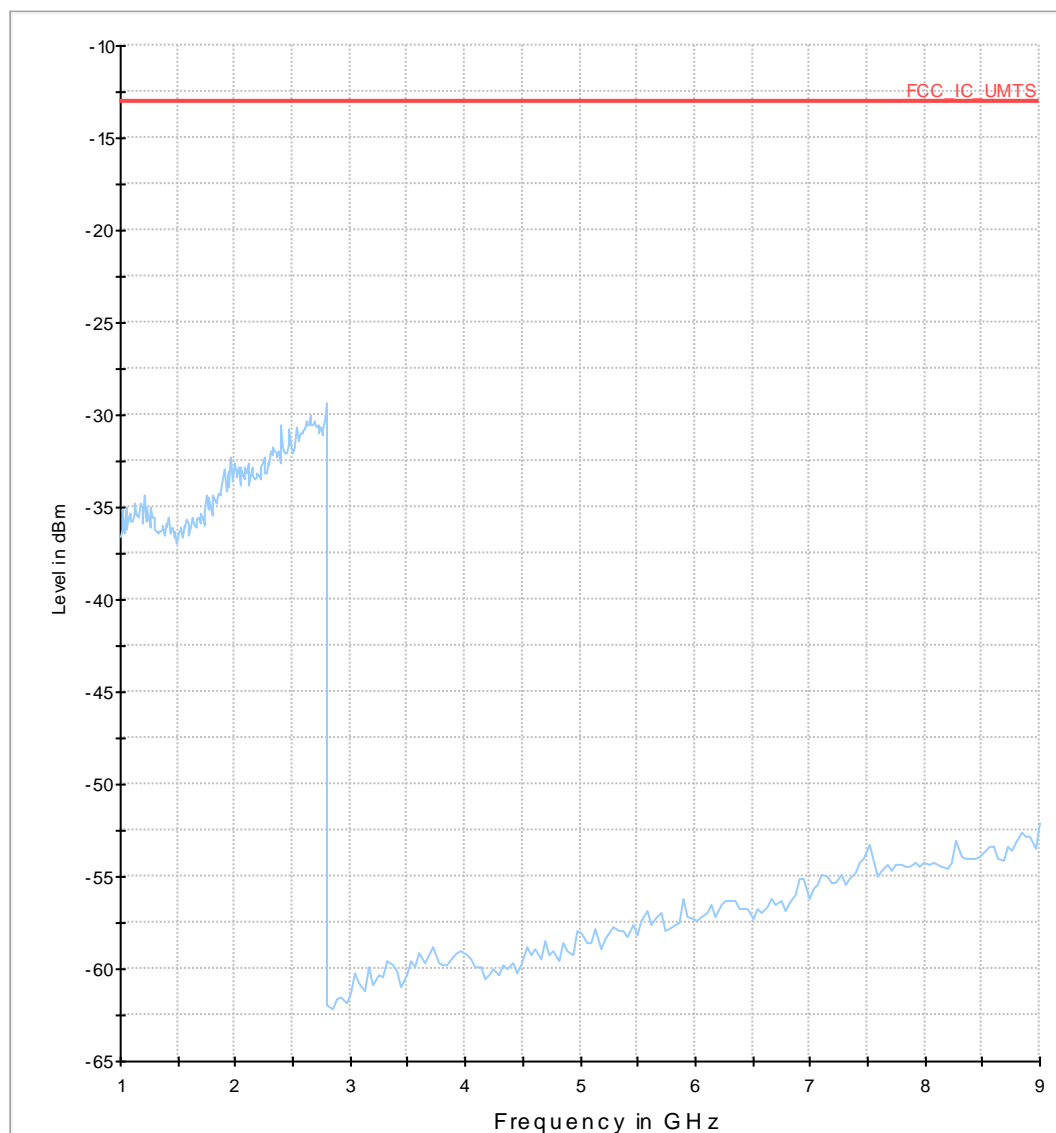
## 8.55\_RSE\_R\_Ch4233\_Audio\_1GHz-9GHz

### Common Information

Test Description:	Radiated Spurious Emissions UMTS
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 22 / RSS-132
Test Case:	UMTS Band 5, Audio (Voice), Ch. 4233
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Operator Name:	PSa

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	H1
Power Supply:	12V
Comments:	-





## 2.9. Radiated emissions on FDD Band 5 band-edge

### 9.50a\_BE\_R\_Ch4132\_RMC

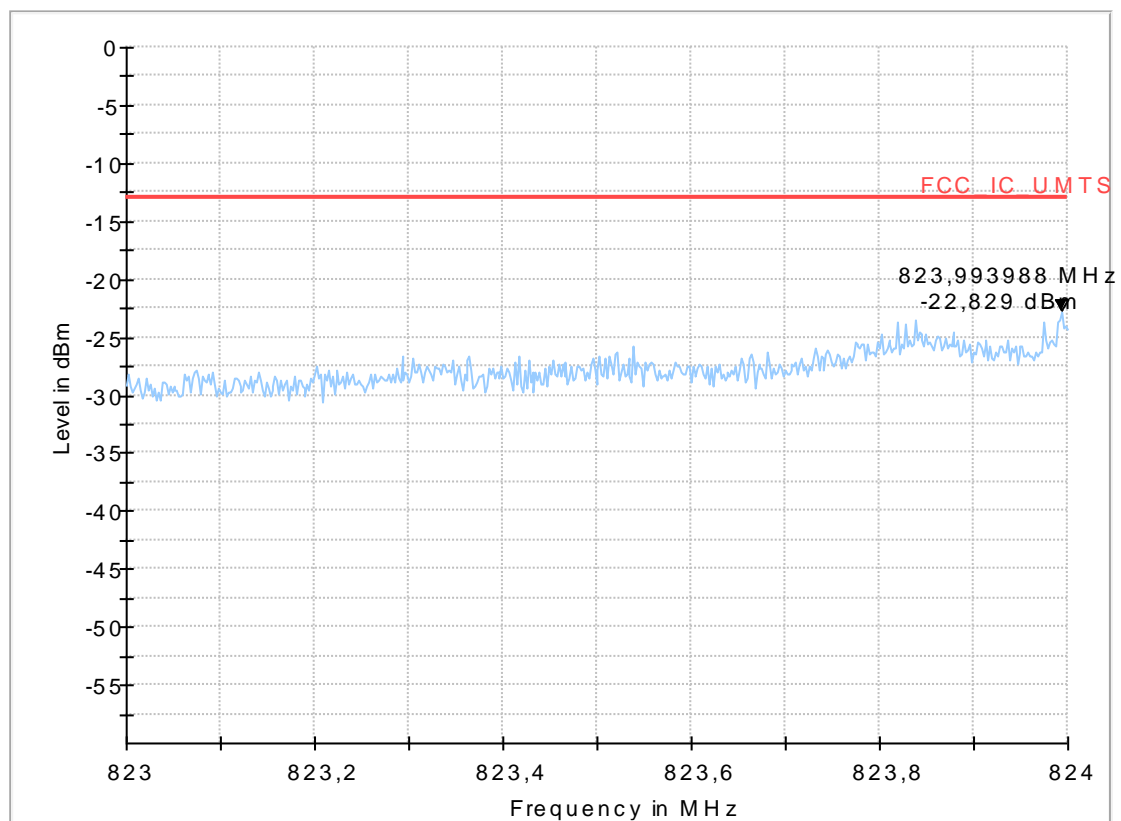
#### Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a) / RSS-132
Operating Mode:	UE allocated channel 4132 (fc = 826,6 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	RI
Remarks:	External Antenna, RMC Mode

#### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum



## 9.53\_BE\_R\_Ch4233\_Audio

### Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a) / RSS-132
Operating Mode:	UE allocated channel 4233 (fc = 846.6 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 19°C
Operator:	RLs
Remarks:	Internal Antenna, Voice Mode

### EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
Type:	TELEMATICS MODULE
-----	
EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	H1
Power Supply:	12VDC
Comments:	-

Full Spectrum

