








Annex 1: Measurement diagrams to TEST REPORT No.: 16-1-0219301T10a

According to:
FCC Regulations
Part 22, Part 24

ISED-Regulations
RSS-132 Issue 3, RSS-133 Issue 6,
RSS-Gen Issue 4

for
Actia Nordic

TEM4G
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
 	 ctia Authorized TM Test Lab Lab Code: 20011130-00	 FEDERAL COMMUNICATIONS COMMISSION MRA US-EU 0003
accredited according to DIN EN ISO/IEC 17025		
<p align="center">CETECOM GmbH Laboratory Radio Communications & 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		

1. MEASUREMENT DIAGRAMS.....	3
1.1. Magnetic field emissions for frequencies lower 30MHz (§15.209).....	3
1.2. Spurious emissions radiated (850 MHz transmitting mode).....	7
1.3. Radiated emissions on 850 MHz transmitting band-edge.....	13
1.4. Spurious emissions radiated (1900 MHz transmitting mode).....	21
1.5. Radiated emissions on 1900 MHz transmitting band-edge.....	26
1.6. Power Measurements and PAPR-Value	34

1. Measurement diagrams

1.1. Magnetic field emissions for frequencies lower 30MHz (§15.209)

2.01_Ch128_GSM_intAnt_standing

Date:	05.06.2017	Page 1 of 5
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 Test software:	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:	GSM850 Voice Ch128, Internal 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:	31654860
Power Supply:	12VDC
Comments:	-

Full Spectrum

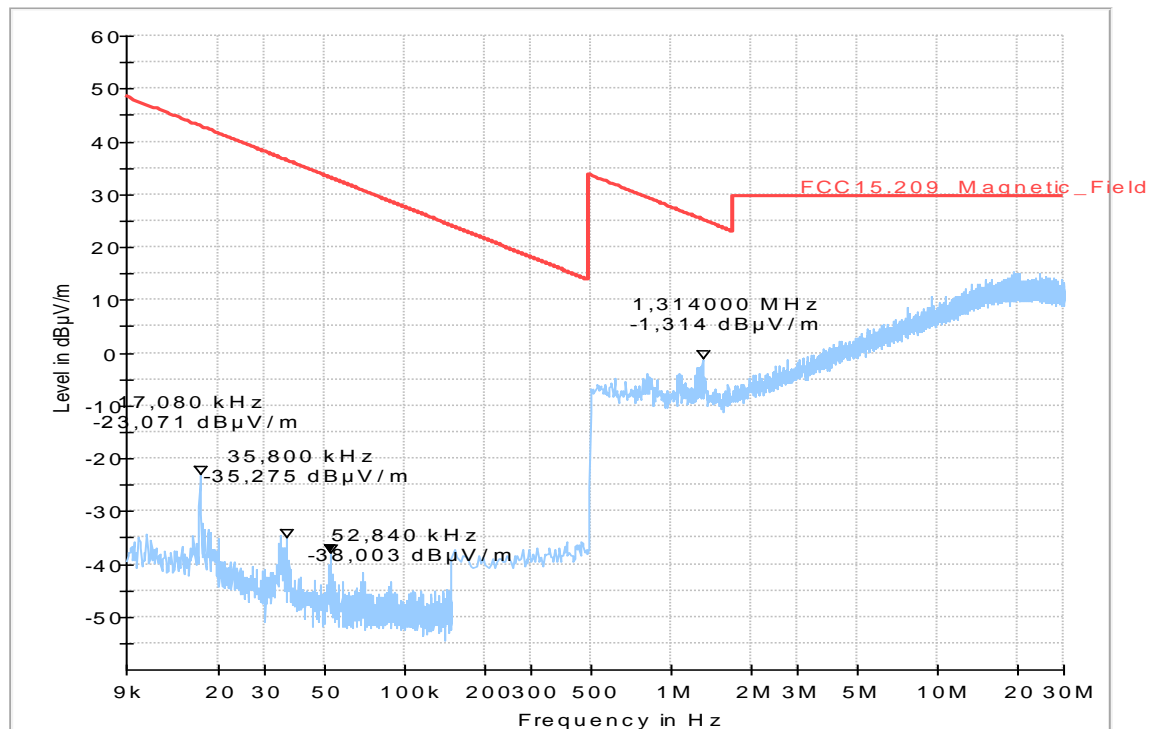


Diagram No. 2.02_Ch251_GPRS_extAnt_standing

Test description:	23.05.2017 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 V9.25.0
Used filter:	not used
Technical Data:	TP1200
Test specification.:	please see page 2 for detailed data of measurement setup
	FCC 15.205 § 15.209; RSS-Gen: Issue 4

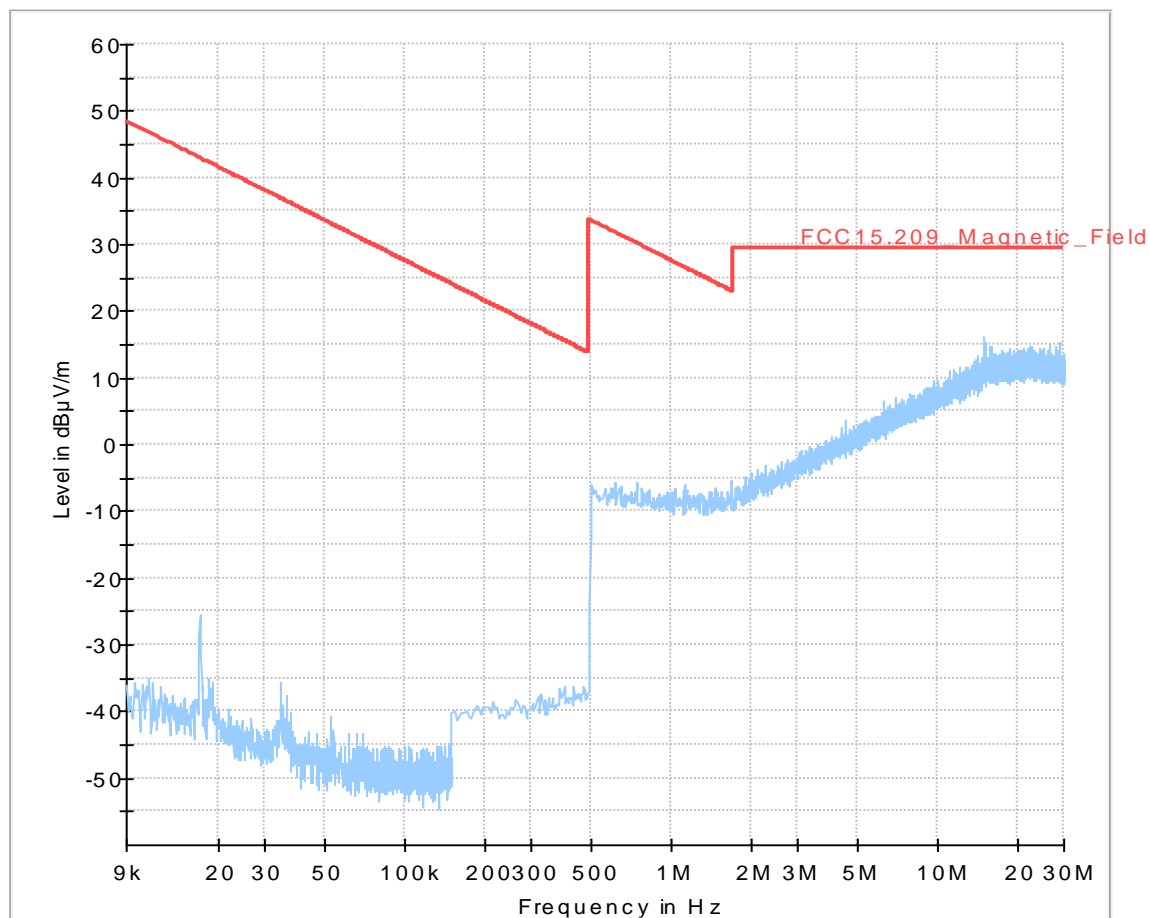
Operator:	SLo
Operating conditions:	continuous TX CH251 GPRS
Power during tests:	12 V DC
Comment 1:	EUT standing

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	31654860
Power Supply:	12VDC
Comments:	-

Full Spectrum



2.03_Ch512_GSM_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 Test software:	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:	GSM1900 Voice Ch512, 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:	31654860
Power Supply:	12VDC
Comments:	-

Full Spectrum

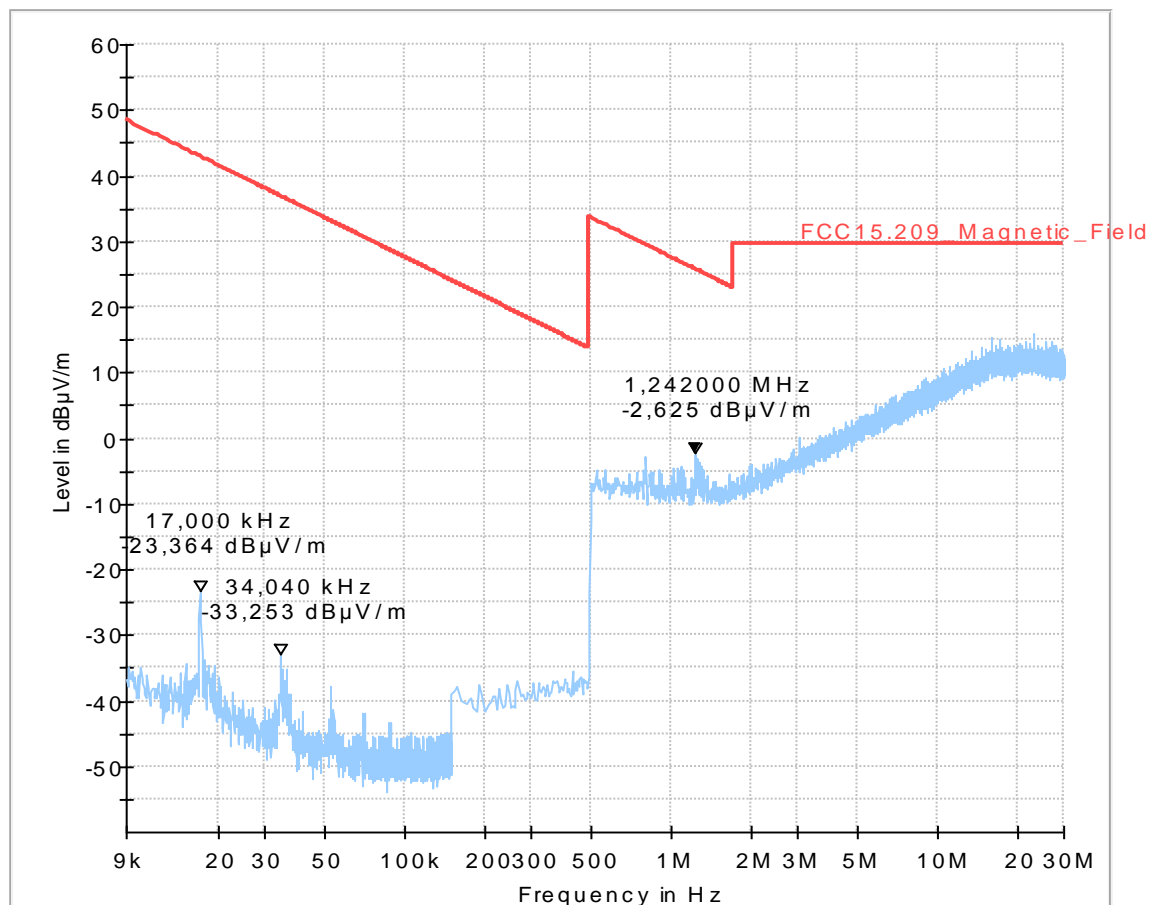


Diagram No. 2.04_Ch810_GPRS_extAnt_standing

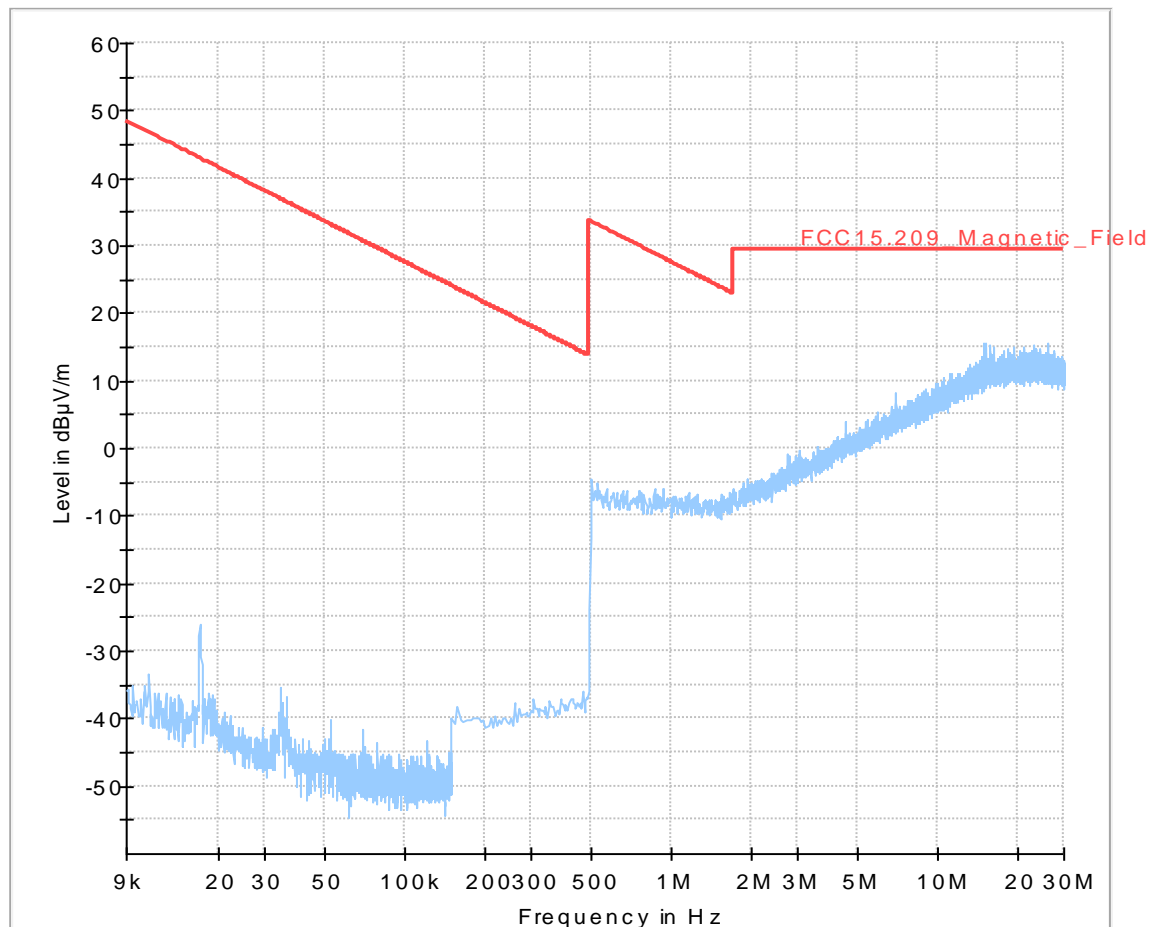
Test description:	23.05.2017 Page 1 of 1 Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	TP1200
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	SLo
Operating conditions:	continuous TX CH810 GPRS
Power during tests:	12 V DC
Comment 1:	EUT standing

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	20071090035
HW:	31654860
Power Supply:	12VDC
Comments:	-

Full Spectrum



1.2. Spurious emissions radiated (850 MHz transmitting mode)

8.01_RSE_R_Ch128_Internal_Voice_30M_1G_Laying

Common Information

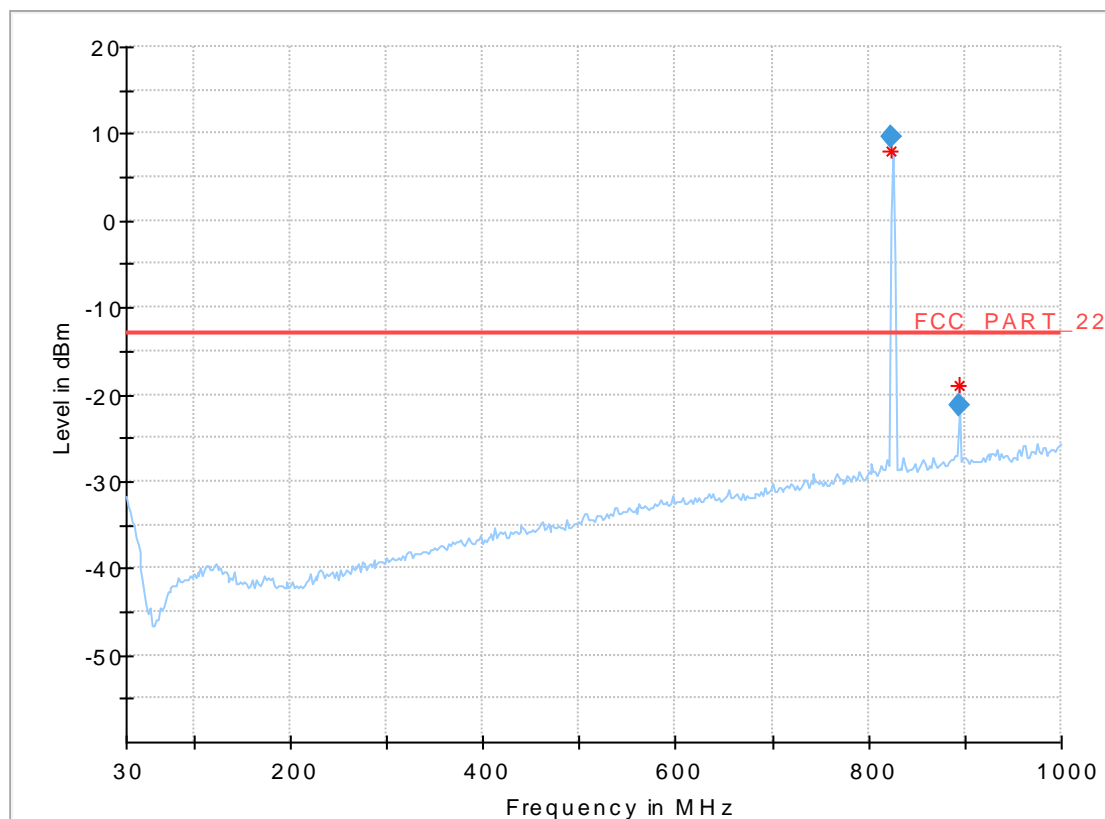
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 128
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah
Comment:	Internal Antenna, Voice Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	31654860
Power Supply:	12VDC
Comments:	Laying

Full Spectrum



8.01b_RSE_R_Ch128_Internal_Voice_30M_1G_standing

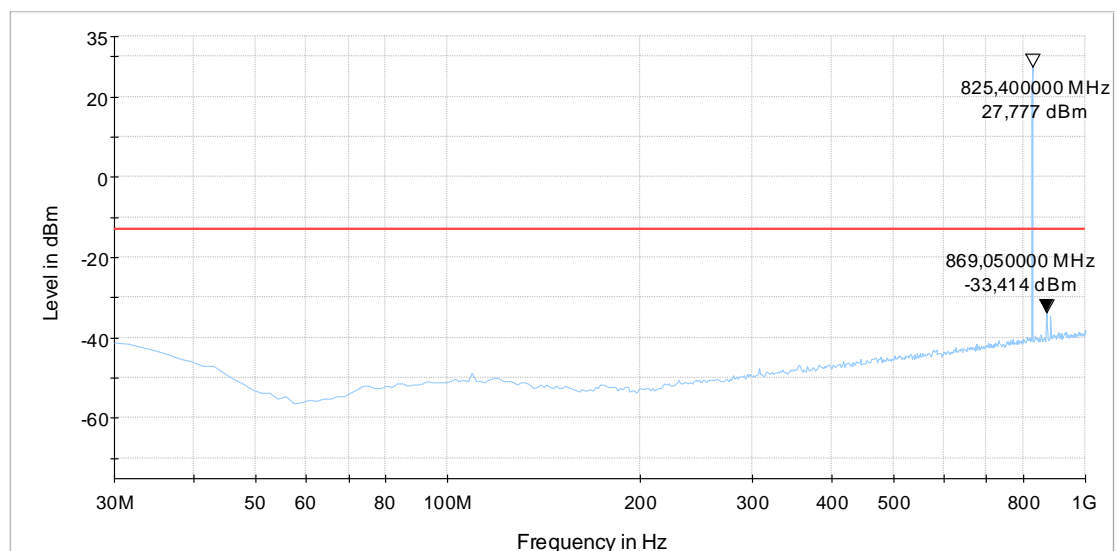
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 128,190,251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Lor
Comment:	Internal Antenna, Voice Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	standing



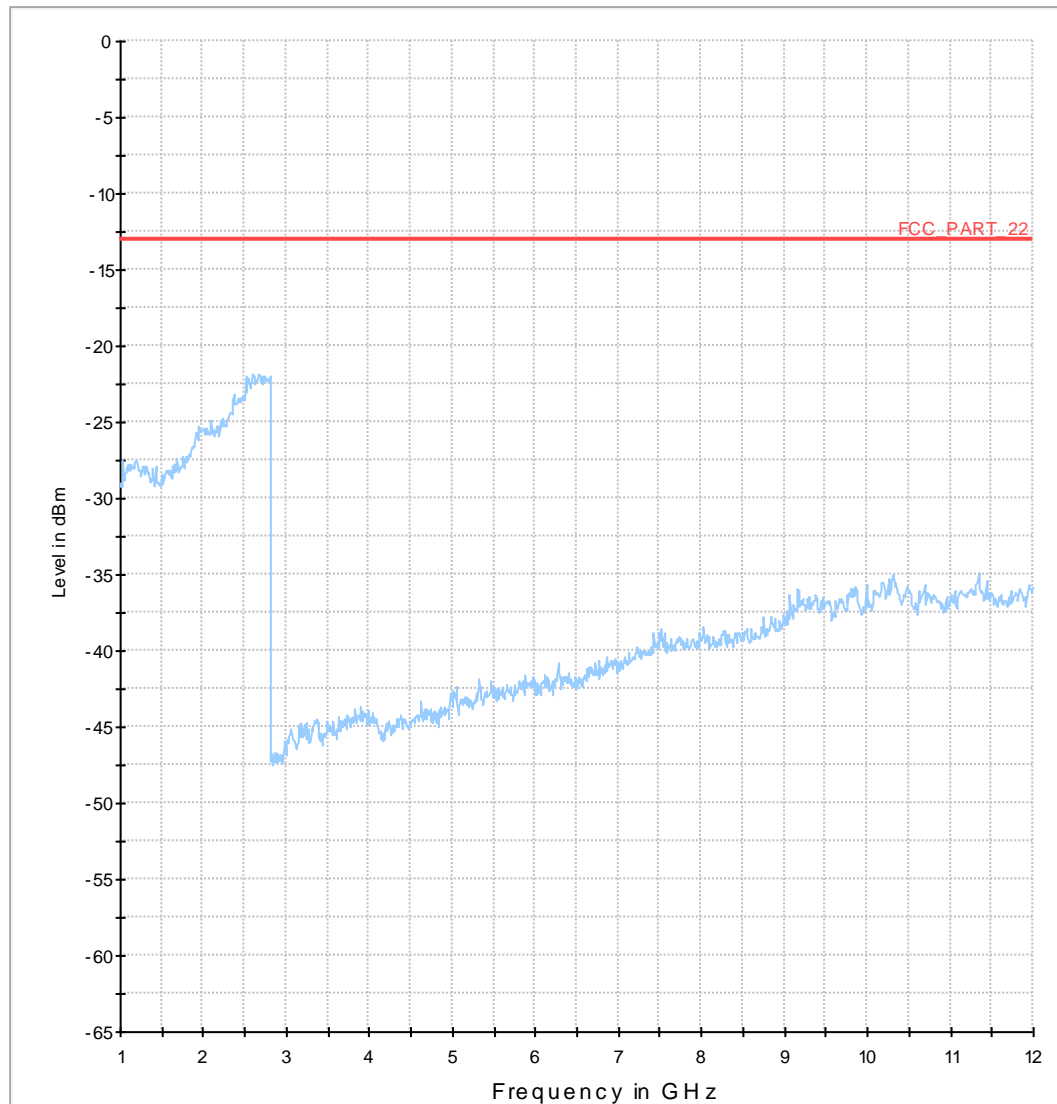
8.01c_RSE_R_Ch128_GSM_1G-12G

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 22
Test Case:	GSM 850, Ch. 128, GSM only
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	internal
Operator Name:	PSa

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	31654860
Power Supply:	12V
Comments:	Standing/laying position



8.06_RSE_R_Ch251_External_GPRS_30M_1G_Laying

Common Information

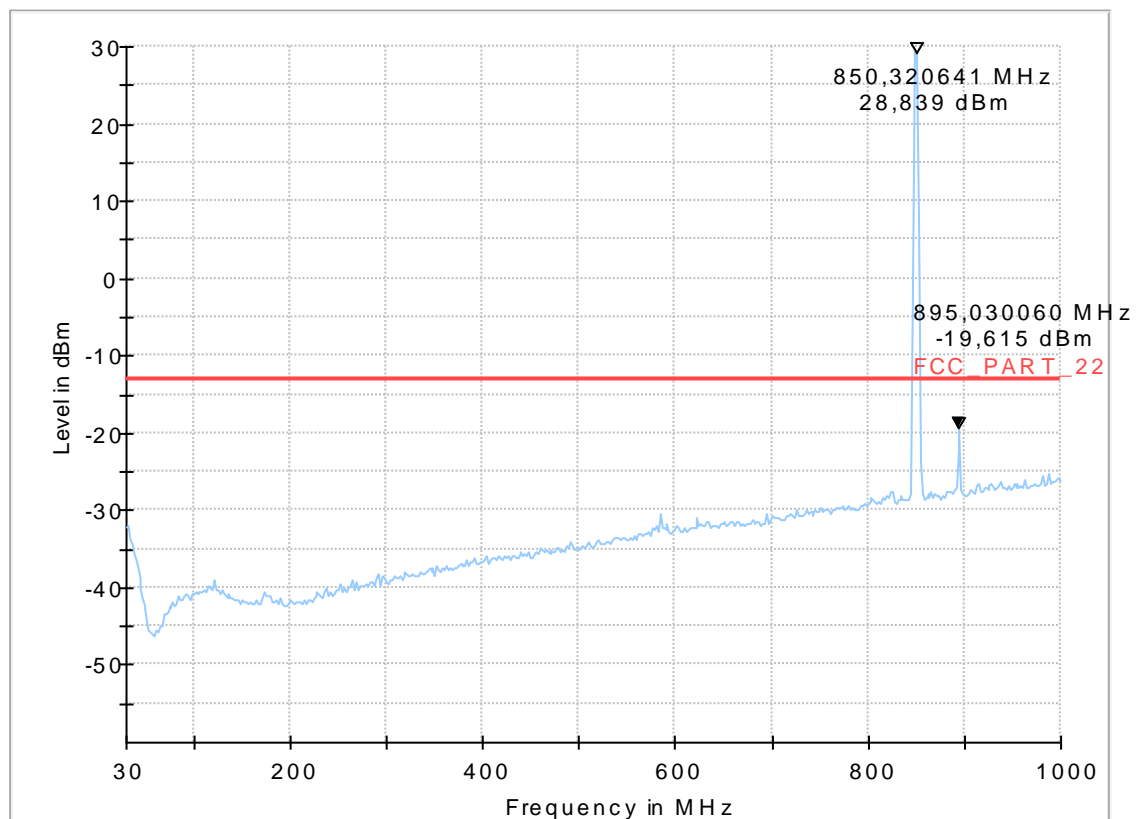
Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917
Test Case:	-
Operating Mode:	MS allocated UL channel 251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah
Comment:	External Antenna, GPRS

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	31654860
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.06b_RSE_R_Ch251_External_GPRS_30M_1G_Standing

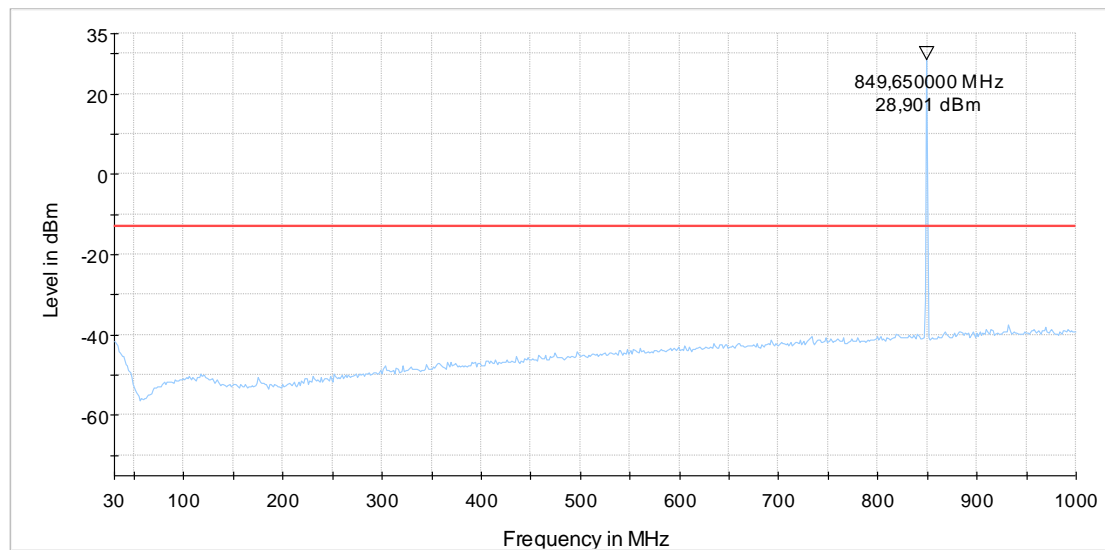
Common Information

Test Description:	Radiated Emissions GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part22.917/RSS-132
Test Case:	-
Operating Mode:	MS allocated UL channel 251
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Lor
Comment:	External Antenna, GPRS, standing

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	-



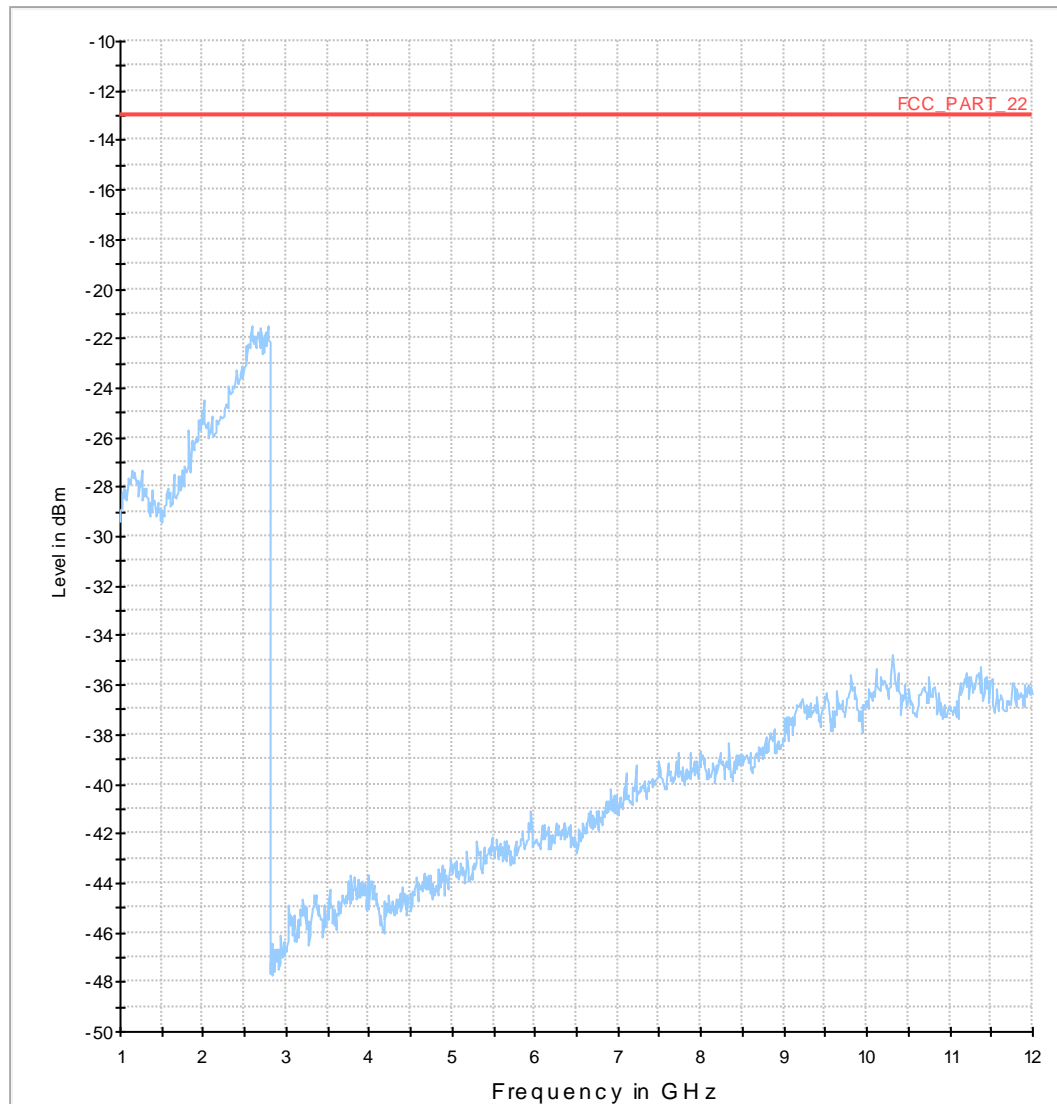
8.06b_RSE_R_Ch251_GPRS_1G-12G

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 22
Test Case:	GSM 850, Ch. 251, GSM+GPRS
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	external
Operator Name:	PSa

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	31654860
Power Supply:	12V
Comments:	Laying/Standing



1.3. Radiated emissions on 850 MHz transmitting band-edge

9.01_BE_R_Ch128_Internal_Voice_Laying

Common Information

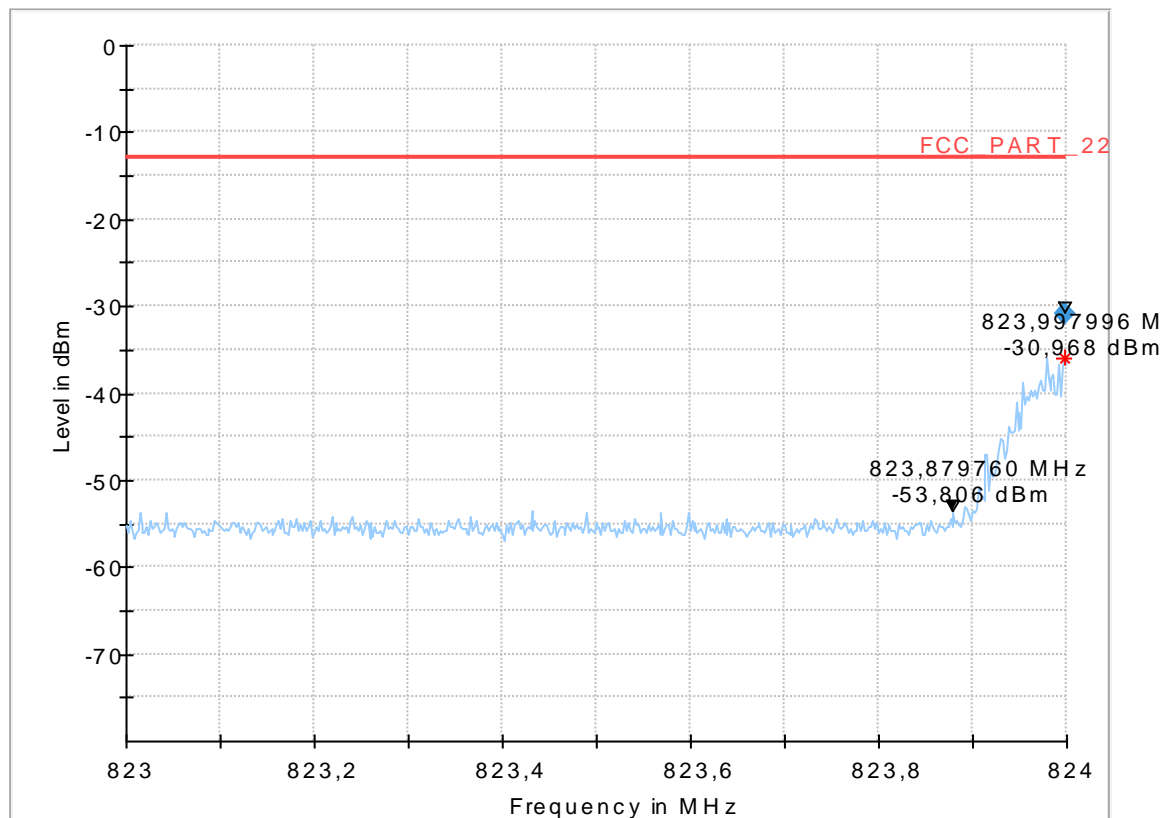
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah
Comment:	Internal Antenna, Voice Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	31654860
Power Supply:	12VDC
Comments:	Laying

Full Spectrum



9.01b_BE_R_Ch128_Internal_Voice_Standing

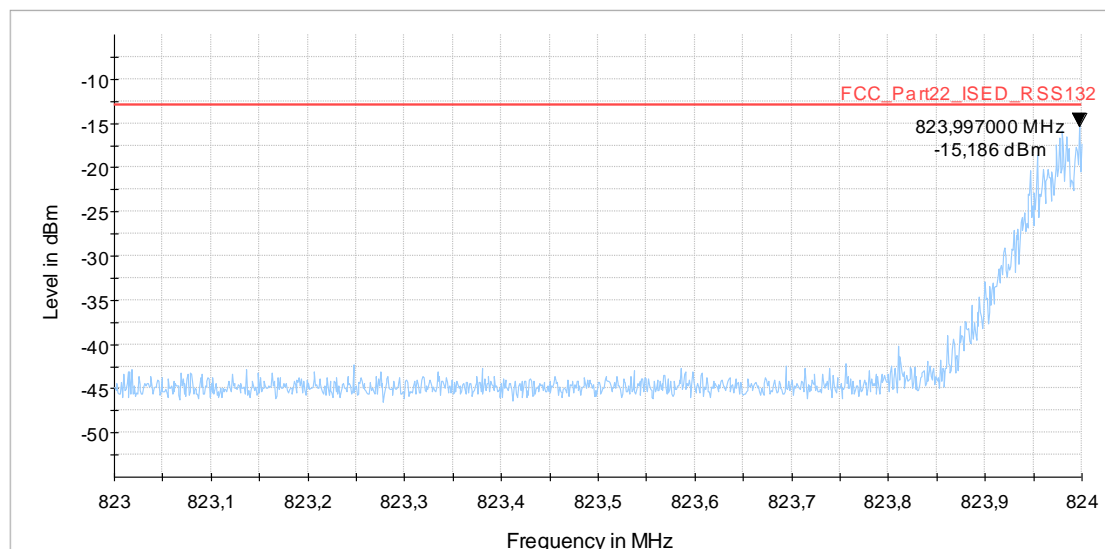
Common Information

Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), Voice, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Lor
Comment:	Internal Antenna, Voice Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	Standing



9.03_BE_R_Ch128_ExtAnt_GPRS_Laying

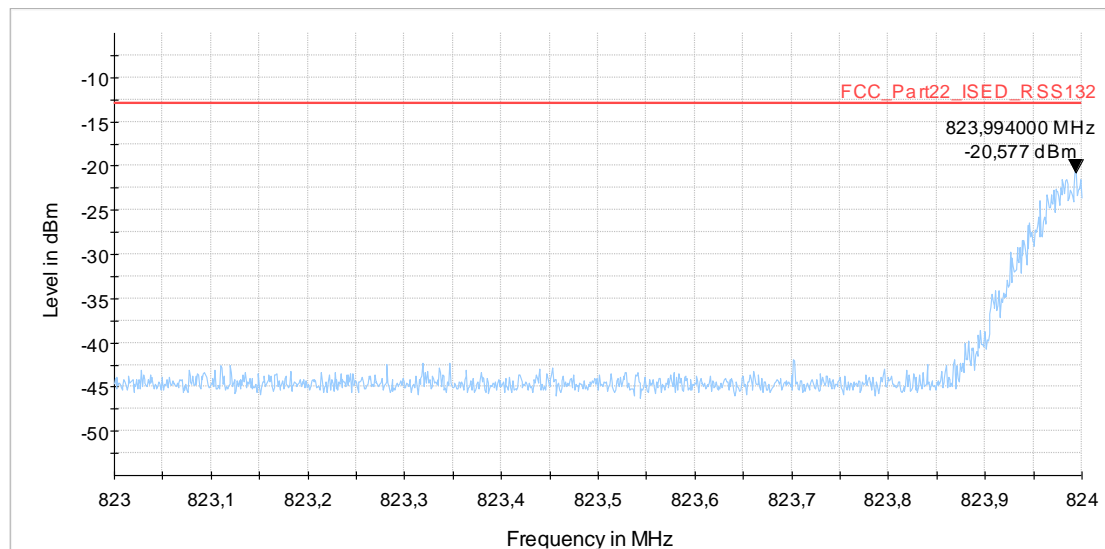
Common Information

Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917/RSS-132
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), GPRS, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Lor
Comment:	Internal Antenna, Voice Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	Laying



9.03b_BE_R_Ch128_ExtAnt_GPRS_Standing

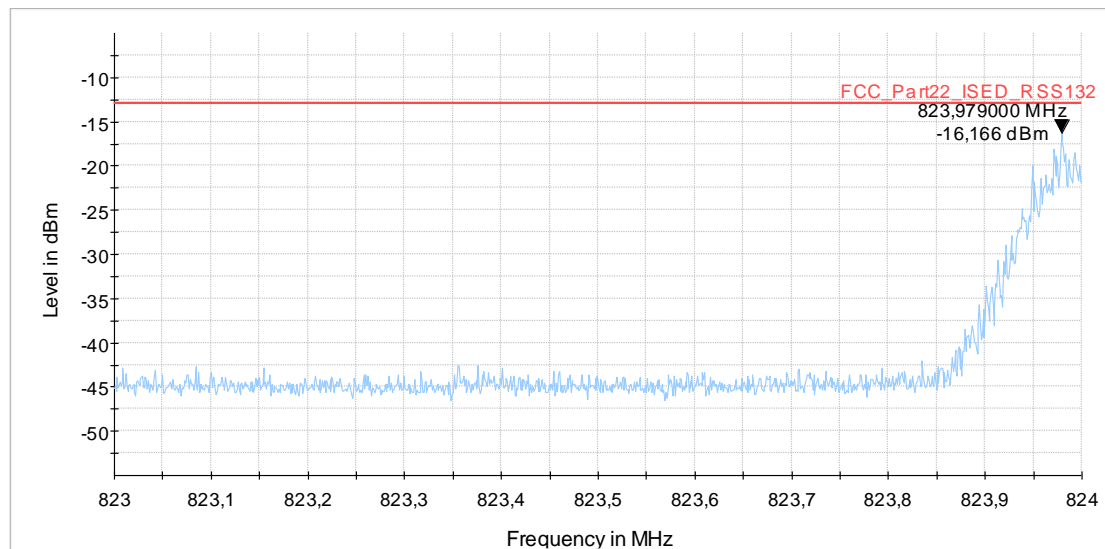
Common Information

Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917/RSS-132
Operating Mode:	MS allocated channel 128 (fc = 824.2MHz), GPRS, PCL5 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Lor
Comment:	Internal Antenna, Voice Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	Standing



9.02_BE_R_Ch251_IntAnt_GSM_VOICE_Laying

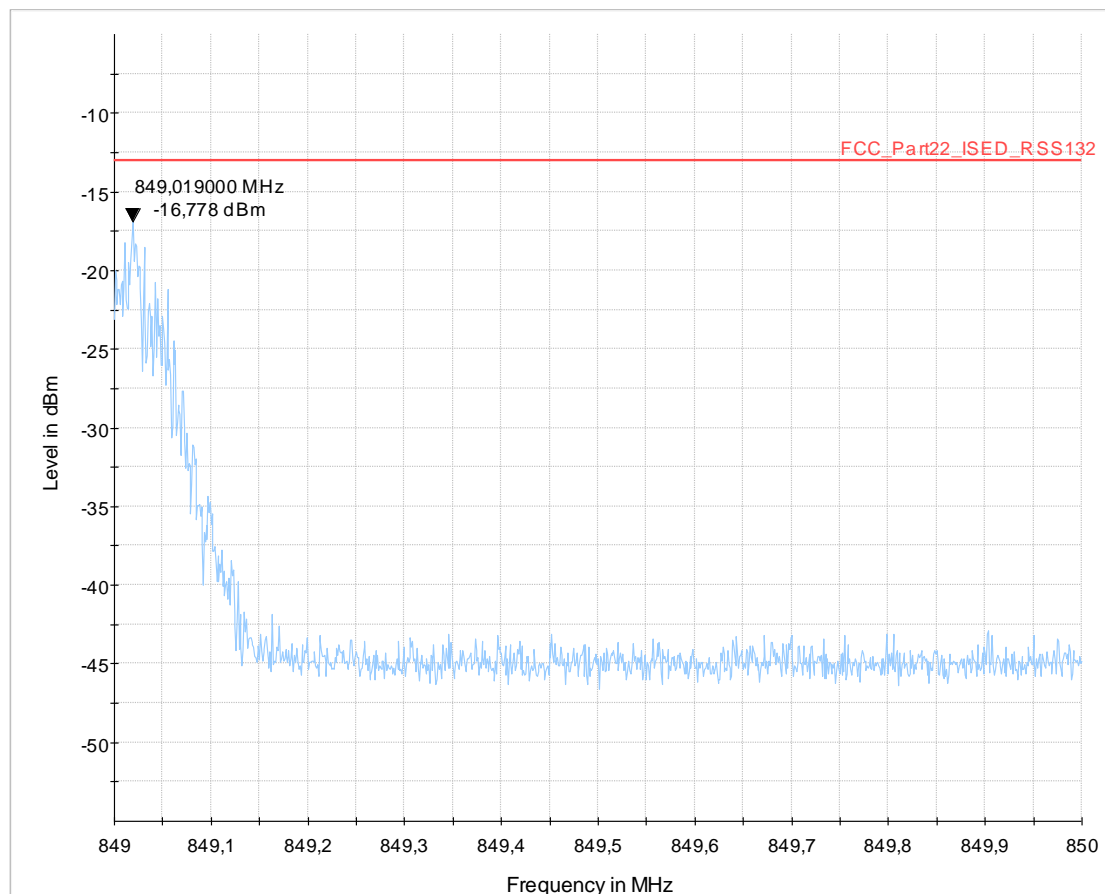
Common Information

Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917/RSS-132
Operating Mode:	MS allocated channel 251 (fc = 848.8MHz), PCL0 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah
Comment:	Internal Antenna, GSM Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	Laying



9.02b_BE_R_Ch251_IntAnt_GSM_VOICE_Standing

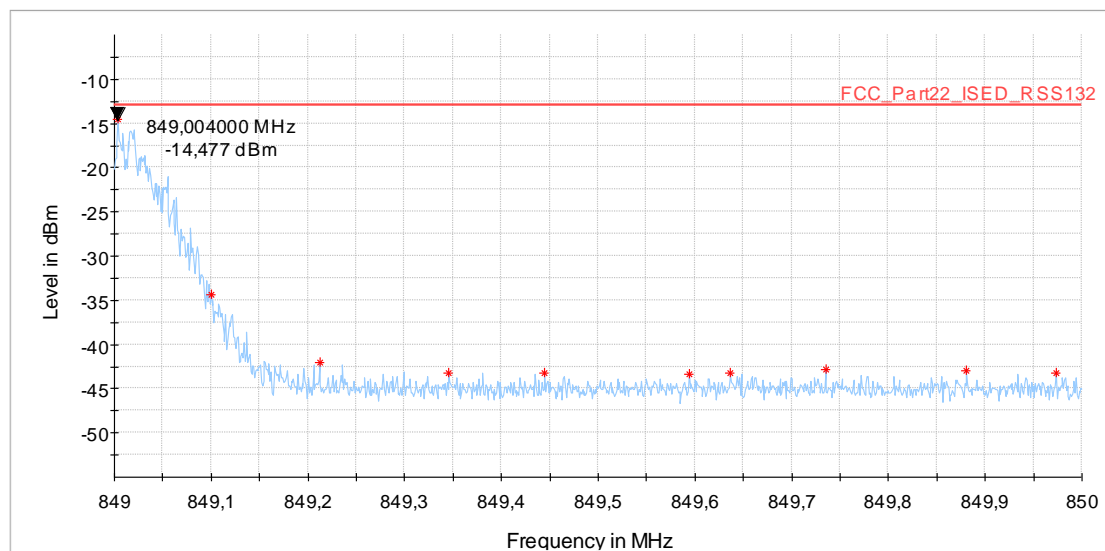
Common Information

Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917/RSS-132
Operating Mode:	MS allocated channel 251 (fc = 848.8MHz), PCL0 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah
Comment:	Internal Antenna, GSM Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	Standing



9.04_BE_R_Ch251_External_GPRS_Laying

Common Information

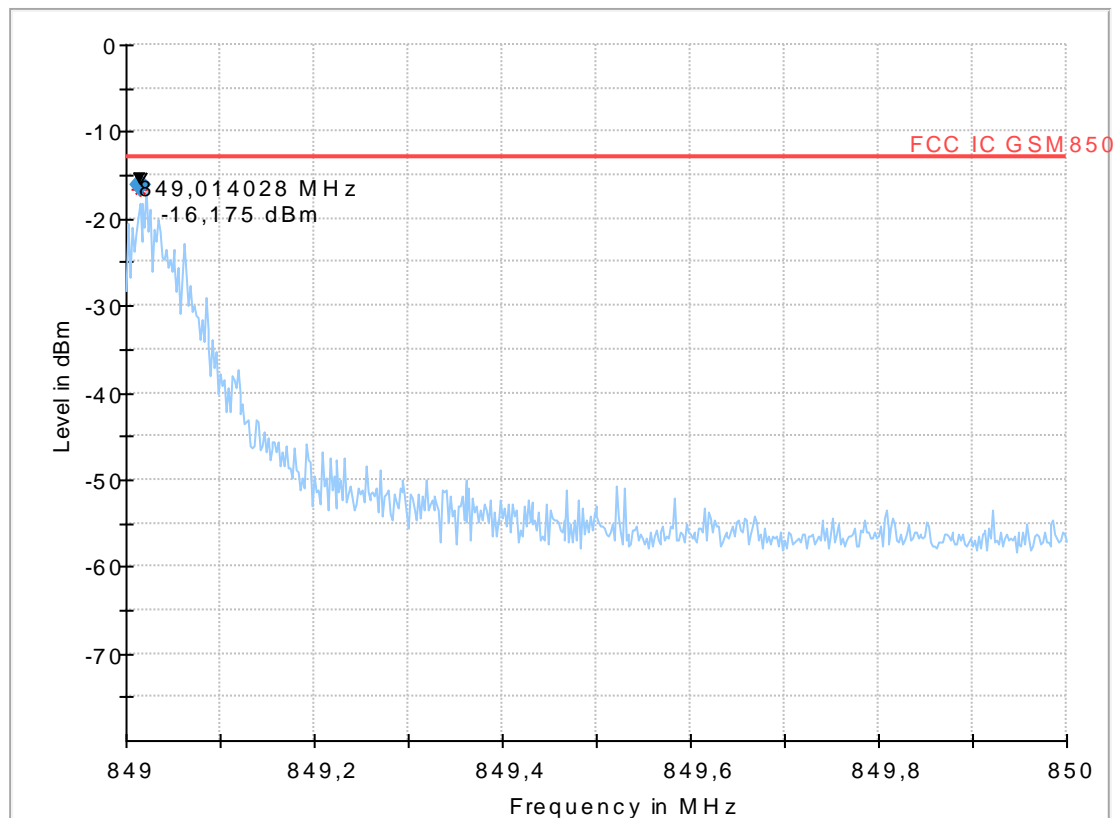
Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	MS allocated channel 251 (fc = 848.8MHz), Voice, PCL0 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah
Comment	External Antenna, GSM Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	31654860
Power Supply:	12VDC
Comments:	laying

Full Spectrum



9.04b_BE_R_Ch251_External_GPRS_Standing

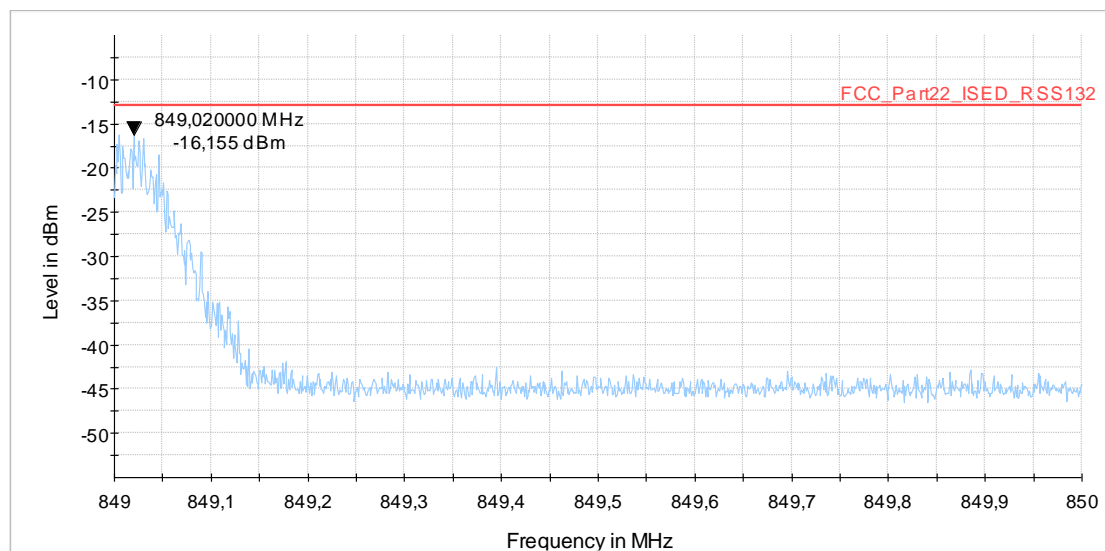
Common Information

Test Description:	Radiated Band Edge Compliance GSM850
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917/RSS-132
Operating Mode:	MS allocated channel 251 (fc = 848.8MHz), PCL0 (+33dBm)
Exclusionband:	824 - 849MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Lor
Comment	External Antenna, GSM Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	Standing



1.4. Spurious emissions radiated (1900 MHz transmitting mode)

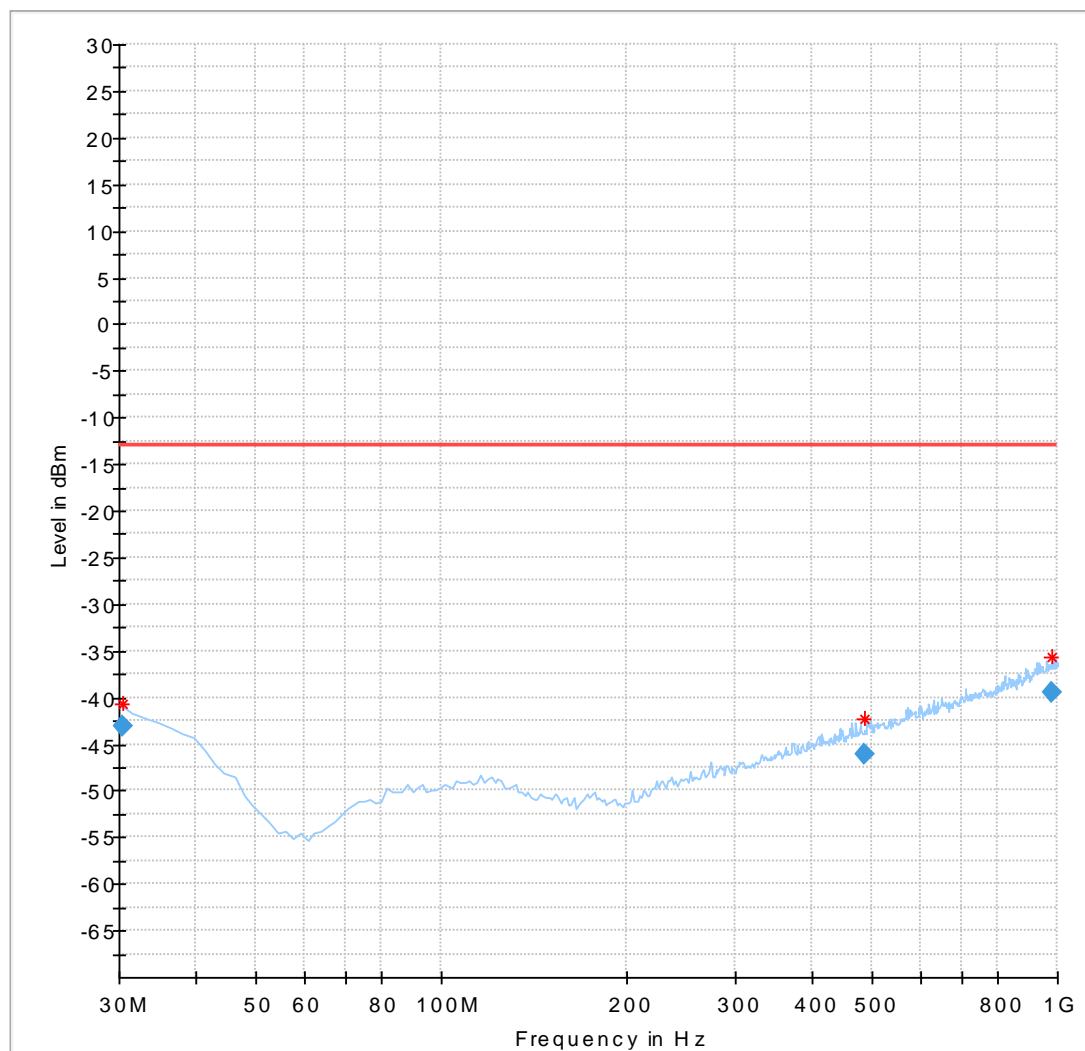
8.10a_RSE_R_Ch512_GSM_Standing

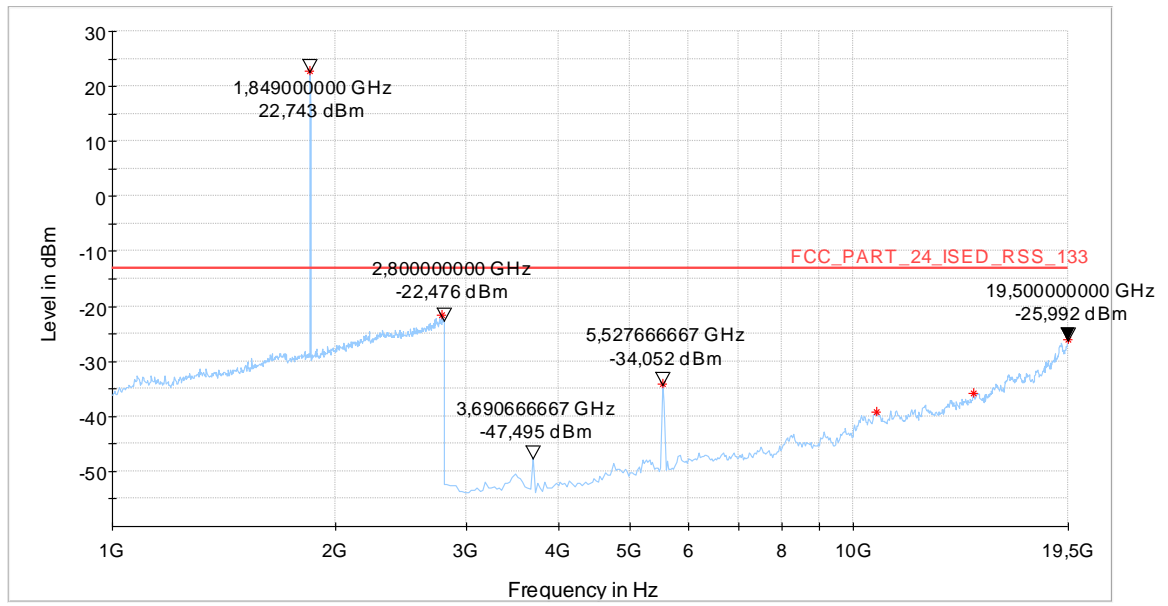
Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24
Test Case:	GSM 1900, Ch. 512, GSM only (Voice)
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Internal Antenna





8.15_RSE_R_Ch810_External_GPRS_Laying

Common Information

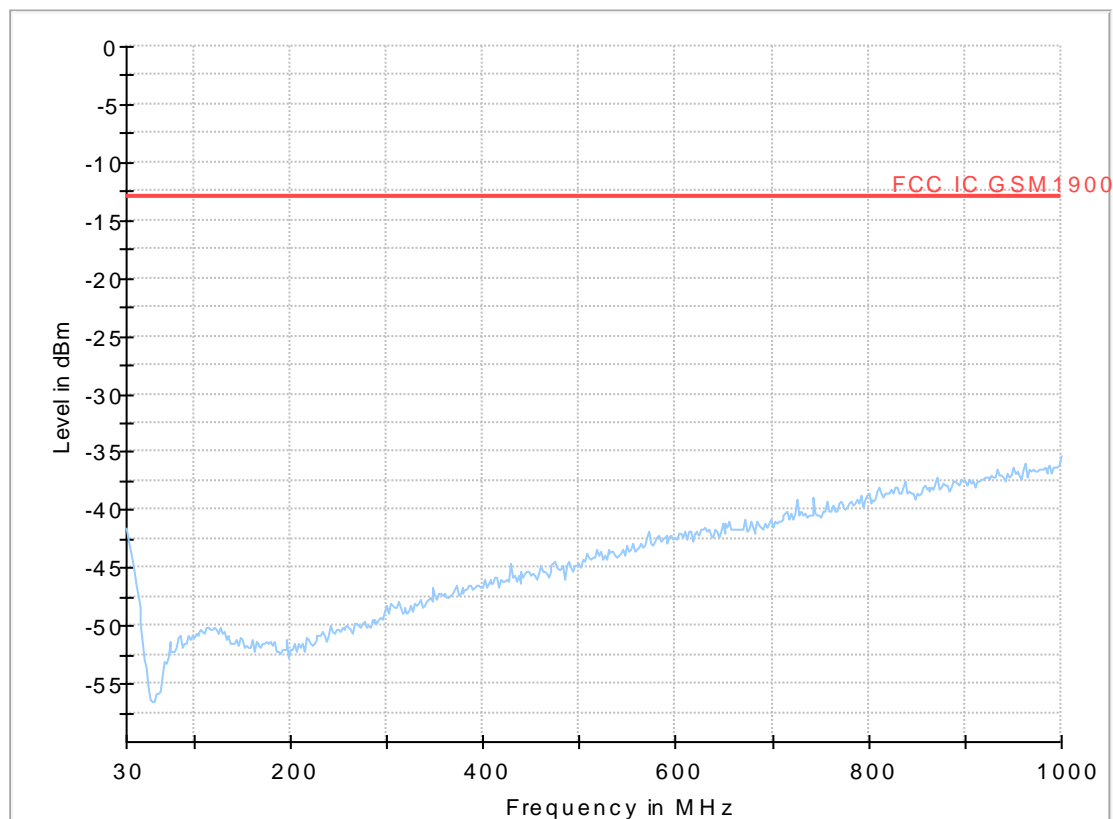
Test Description:	Radiated Spurious Emissions GPRS1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238
Test Case:	-
Operating Mode:	MS allocated UL channel 810
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Mah
Comment:	External Antenna, GPRS Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	20071090026
HW:	31654860
Power Supply:	12VDC
Comments:	-

Full Spectrum



8.15_RSE_R_Ch810_External_GPRS_Standing

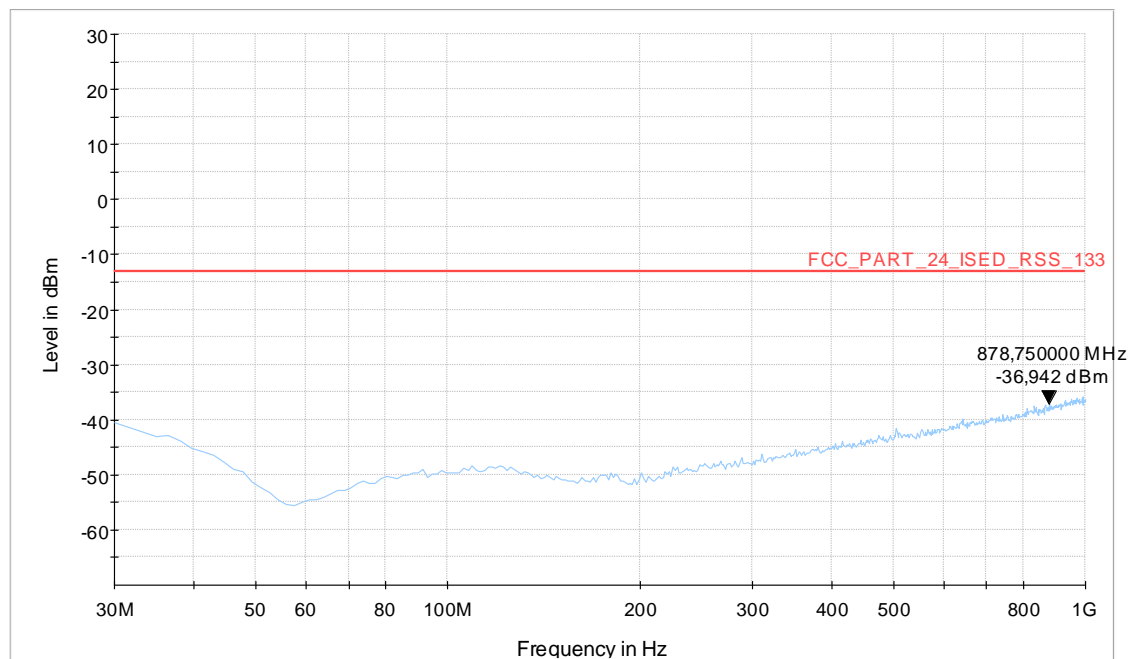
Common Information

Test Description:	Radiated Spurious Emissions GPRS1900
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part24.238/RSS-133
Test Case:	-
Operating Mode:	MS allocated UL channel 810
Exclusionband:	1850 - 1910MHz
Environmental Conditions:	Humidity: 40%rH; Temperature: 20°C
Operator:	Lor
Comment:	External Antenna, GPRS Mode

EUT Information

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

EUT:	TELEMATICS MODULE
Serial number:	..90035
HW:	31654860
Power Supply:	12VDC
Comments:	-



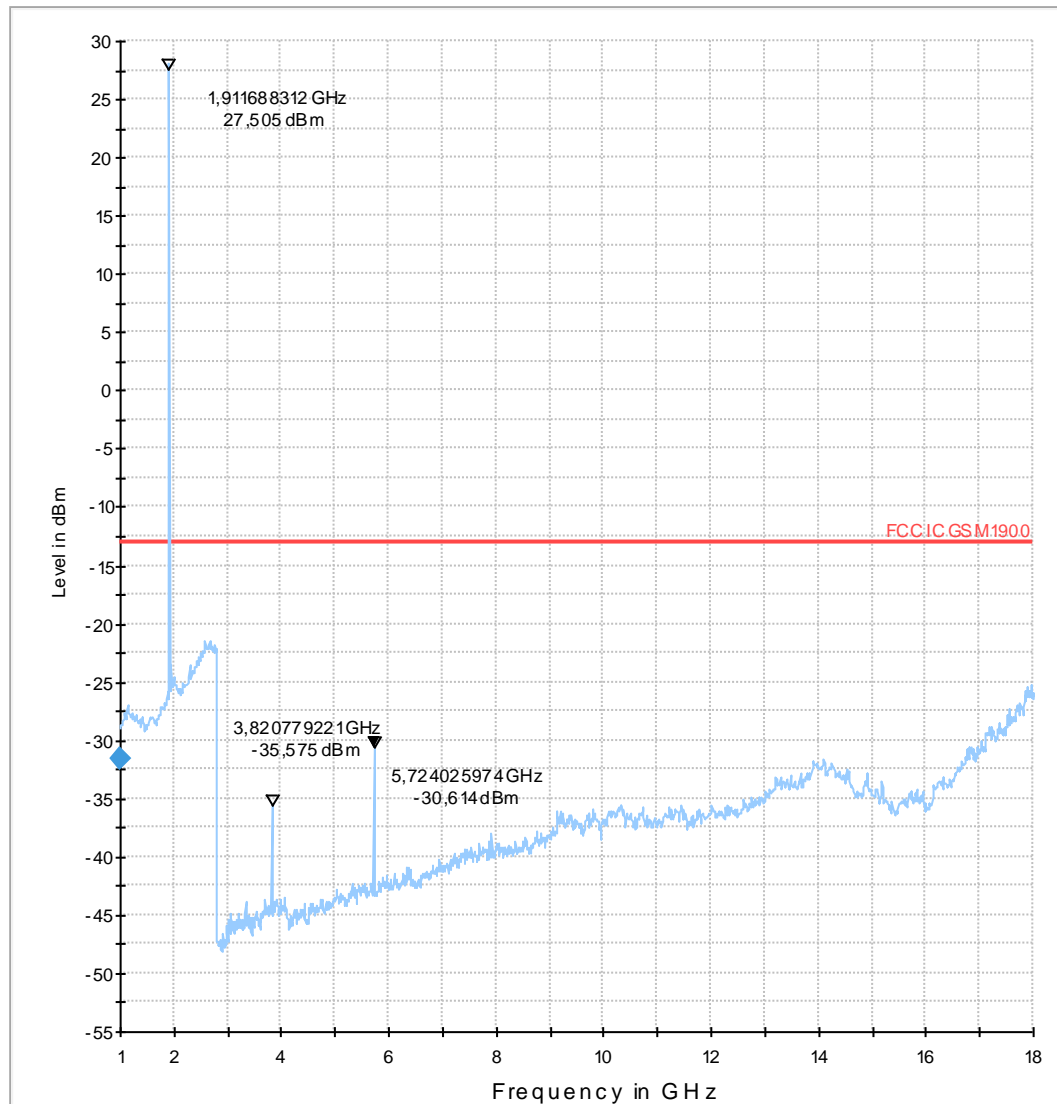
8.15_RSE_R_Ch810_GPRS_1G-18G

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24
Test Case:	GSM 1900, Ch. 810, GSM+GPRS
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	external
Operator Name:	PSa

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	20071090026
HW Version:	31654860
Power Supply:	12V
Comments:	Standing/Laying



1.5. Radiated emissions on 1900 MHz transmitting band-edge

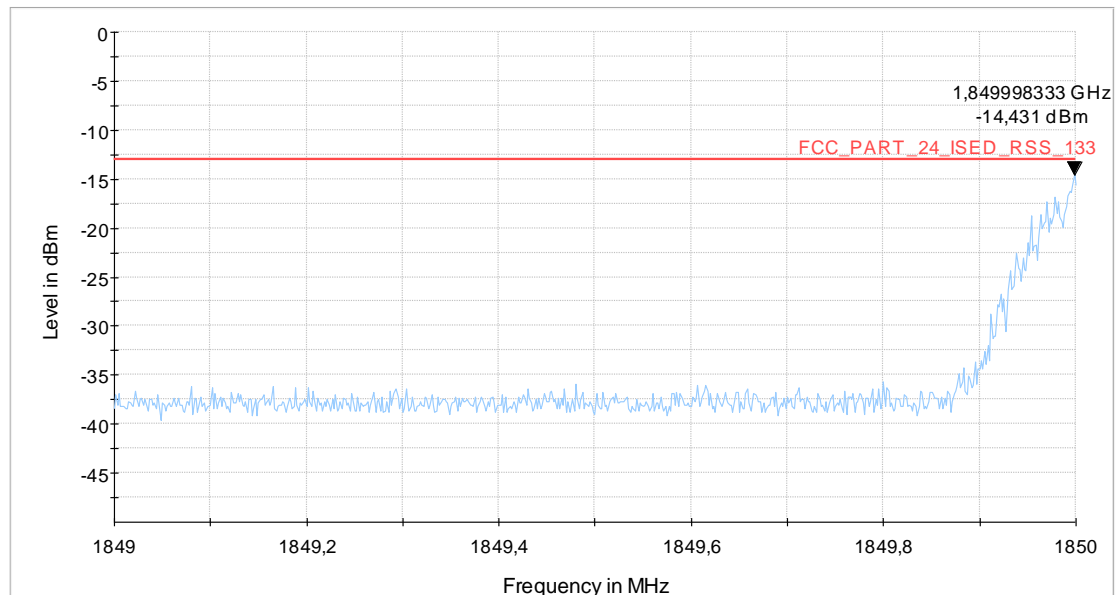
9.07_BE_R_Ch512_Internal_Voice_Standing

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24/RSS-133
Test Case:	GSM 1900, Ch. 512, GSM
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Standing



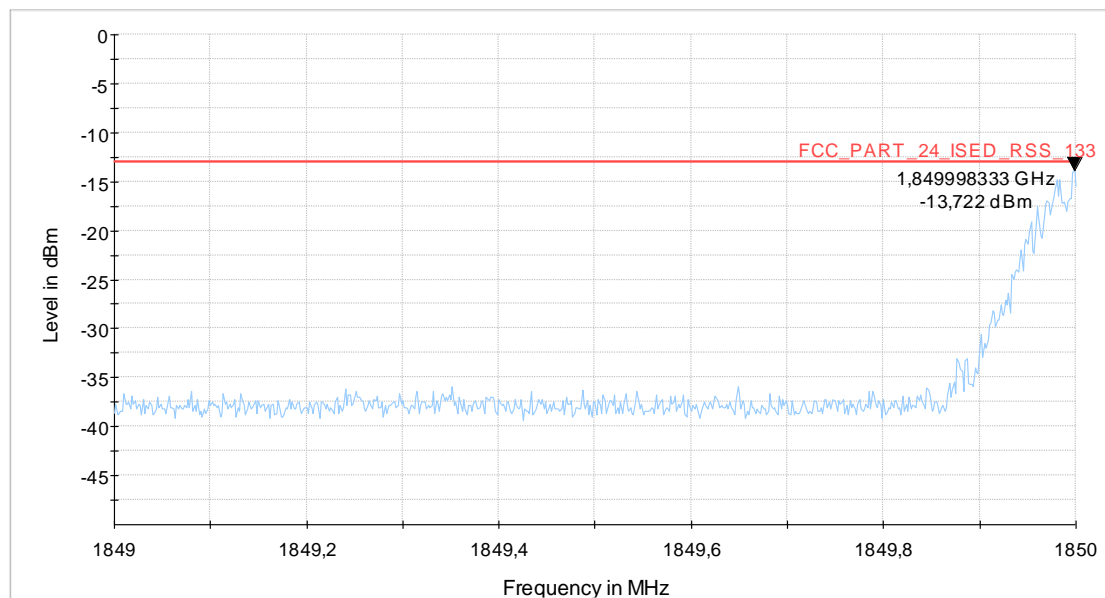
9.07b_BE_R_Ch512_Internal_Voice_Laying

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24/RSS-133
Test Case:	GSM 1900, Ch. 512, GSM
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Laying



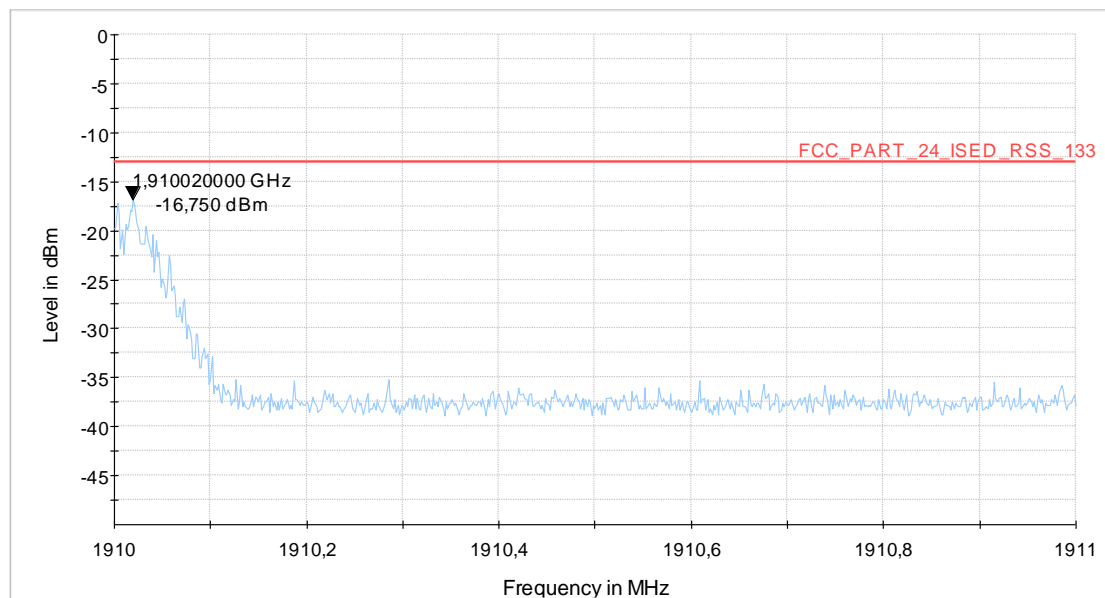
9.08_BE_R_Ch810_Internal_Voice_Standing

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24 / RSS-133
Test Case:	GSM 1900, Ch. 810, GSM
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Standing



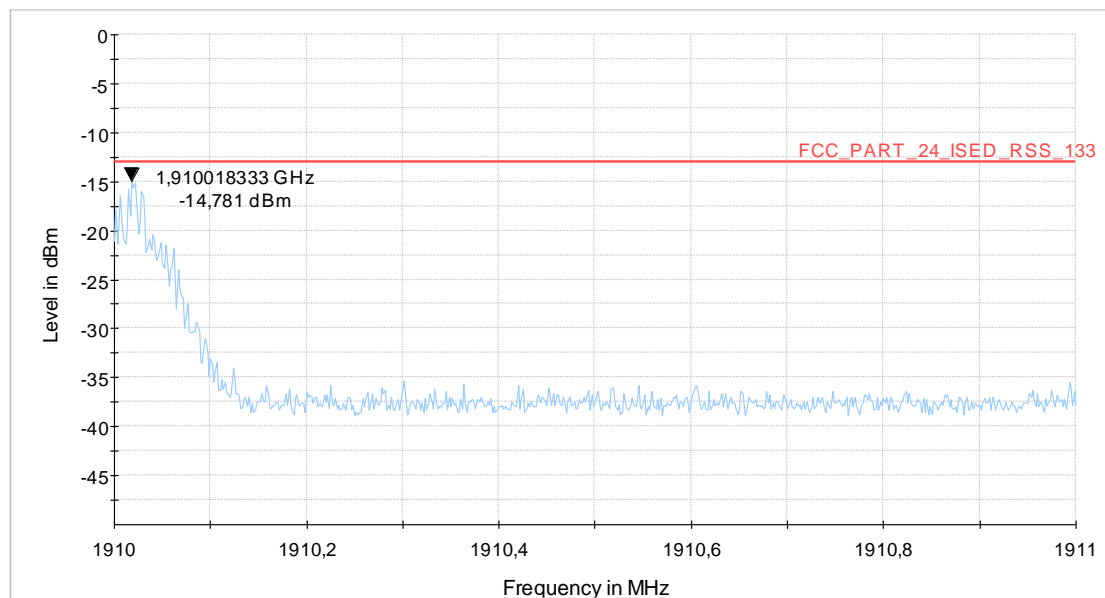
9.08b_BE_R_Ch810_Internal_Voice_Laying

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24 / RSS-133
Test Case:	GSM 1900, Ch. 810, GSM
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Laying



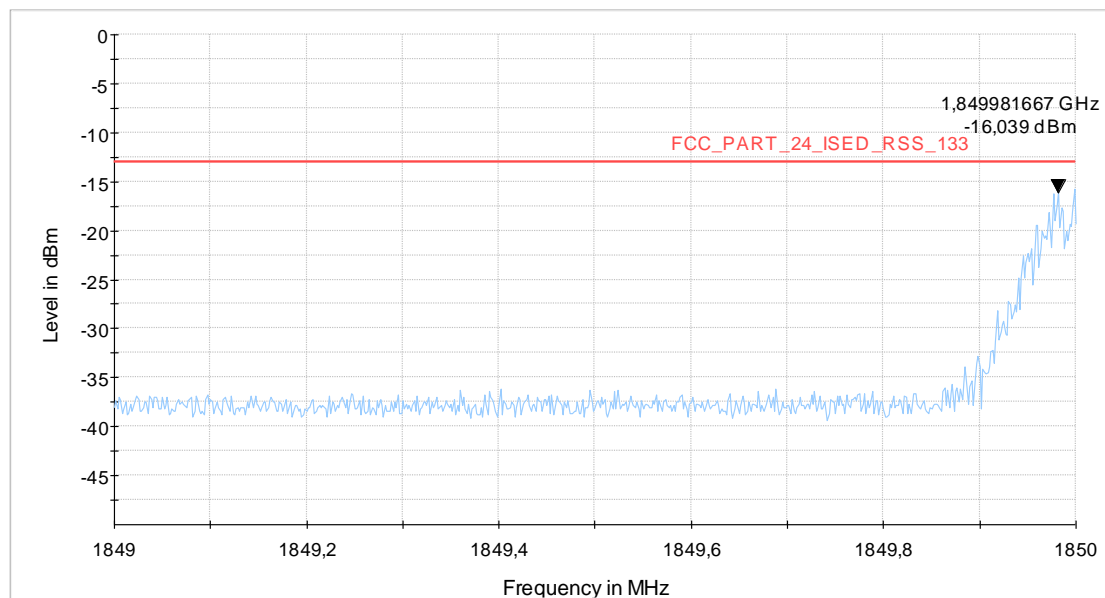
9.09_BE_R_Ch512_ExtAnt_GPRS_Standing

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24 / RSS-133
Test Case:	GSM 1900, Ch. 512, GPRS
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Standing



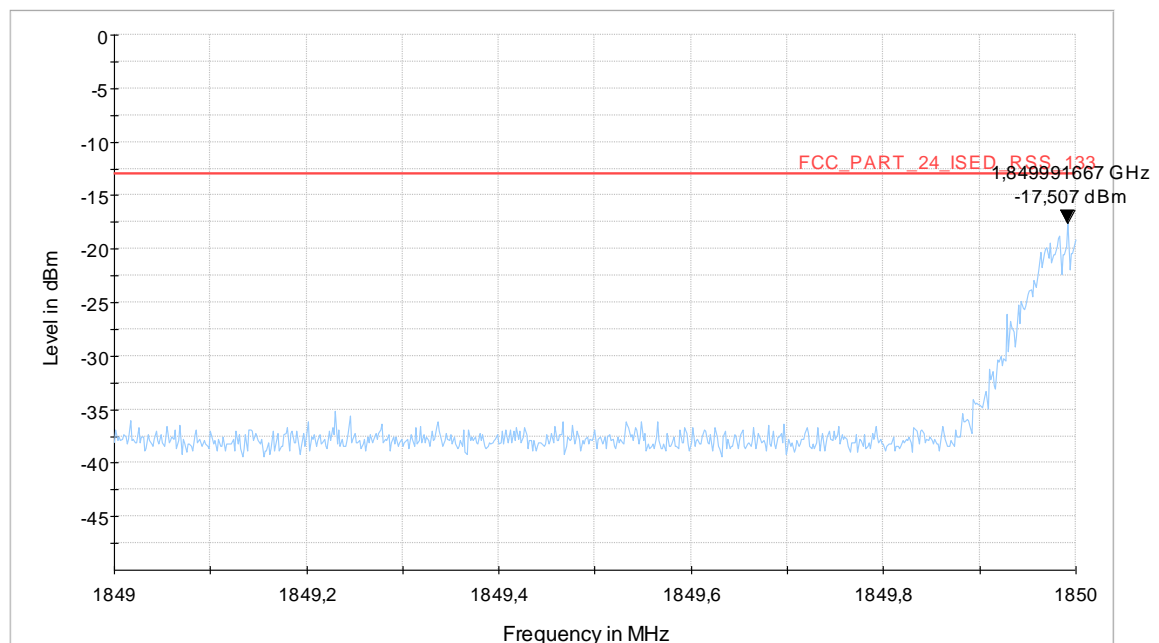
9.09b_BE_R_Ch512_ExtAnt_GPRS_Laying

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24 / RSS-133
Test Case:	GSM 1900, Ch. 512, GPRS
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Laying



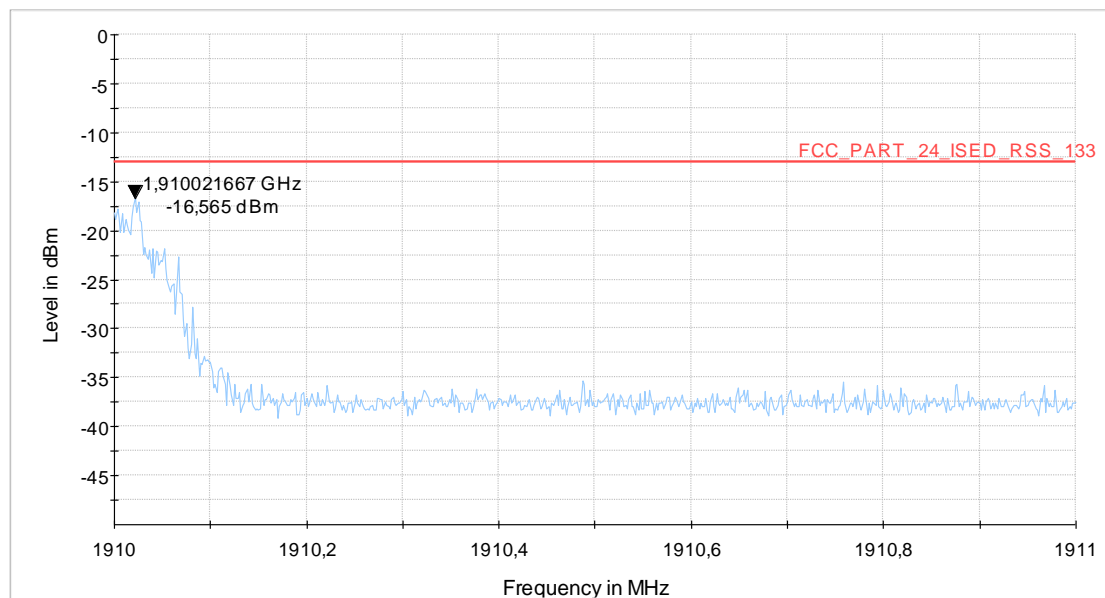
9.10_BE_R_Ch810_ExtAnt_GPRS_Standing

Common Information

Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24 / RSS-133
Test Case:	GSM 1900, Ch. 810, GPRS
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Standing



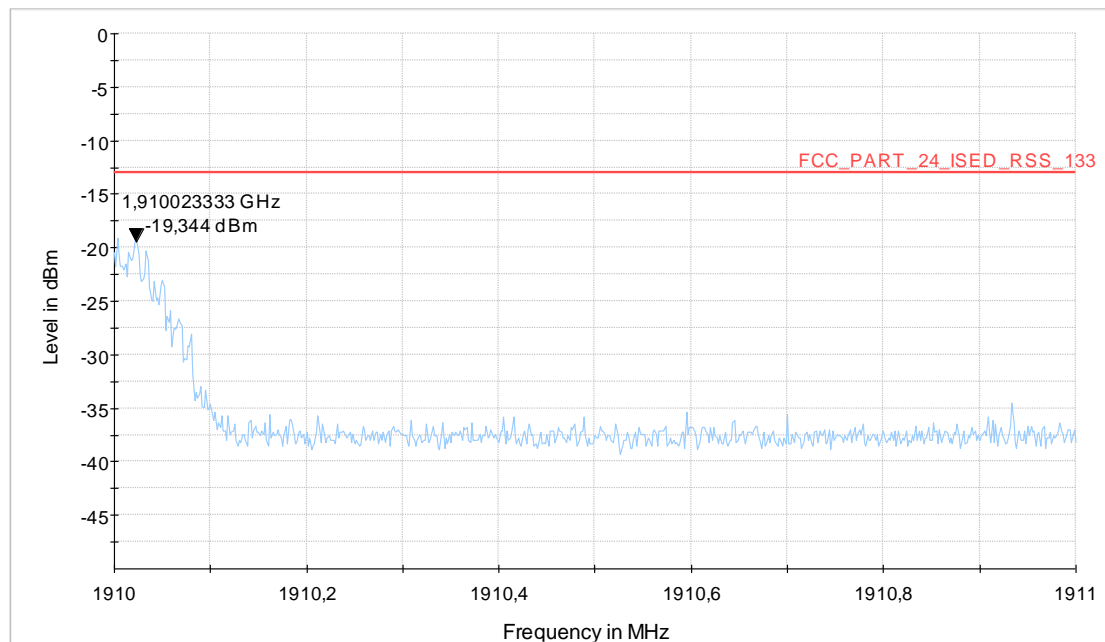
9.10b_BE_R_Ch810_ExtAnt_GPRS_Laying

Common Information

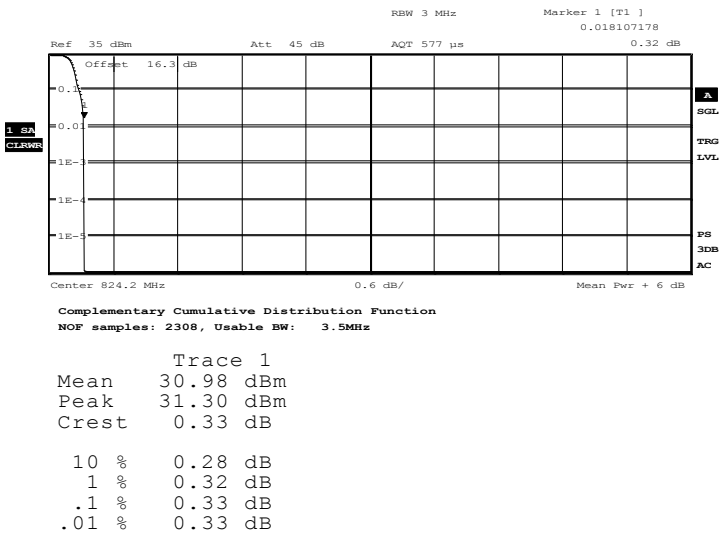
Test Description:	Radiated Spurious Emissions GSM
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room 2 (FAR2)
Test Standard:	FCC 24 / RSS-133
Test Case:	GSM 1900, Ch. 810, GPRS
Environment Conditions:	Humidity: 46%rH; Temperature: 20°C
Antenna:	Internal
Operator Name:	Lor

EUT Information

Manufacturer:	ACTIA NORDIC AB
Model:	TEM4G
EUT Type:	TELEMATICS MODULE
S/N:	..90035
HW Version:	31654860
Power Supply:	12V
Comments:	Laying

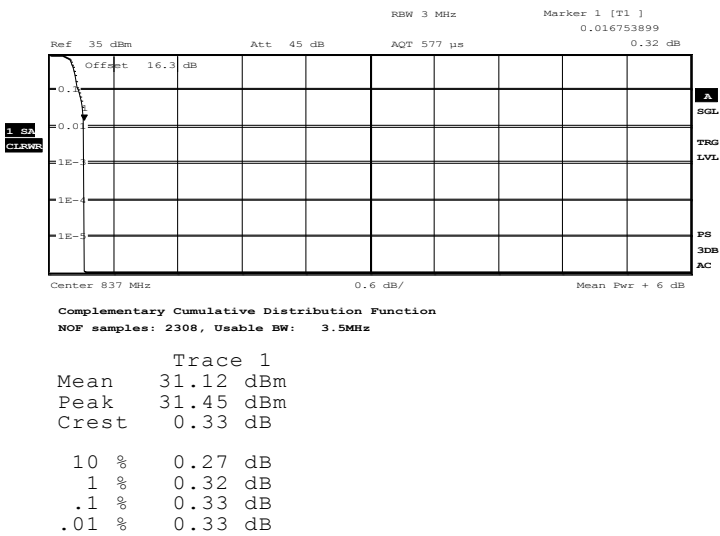


1.6. Power Measurements and PAPR-Value
1.6.1. GSM 850 (GMSK Modulation)



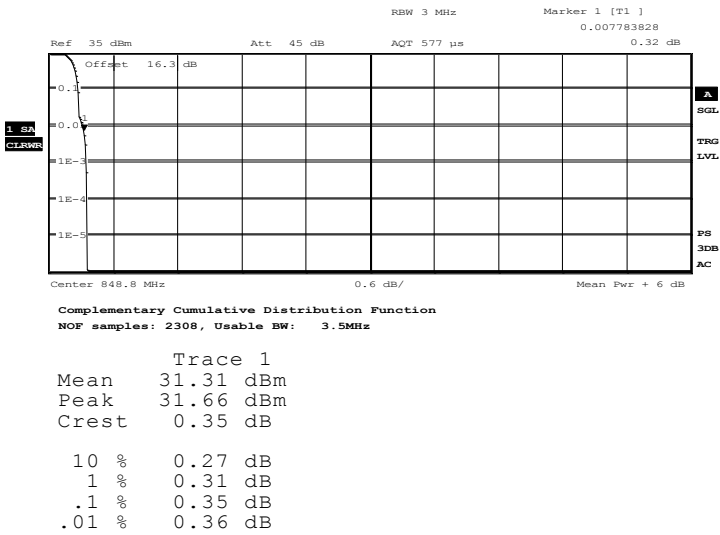
Date: 24.MAY.2017 11:17:32

Diagram 1: Channel 128



Date: 24.MAY.2017 11:19:11

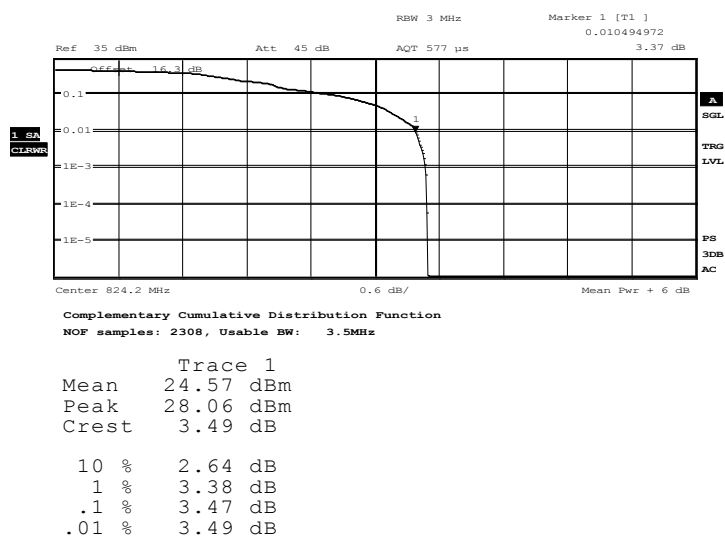
Diagram 2: Channel 192



Date: 24.MAY.2017 11:20:11

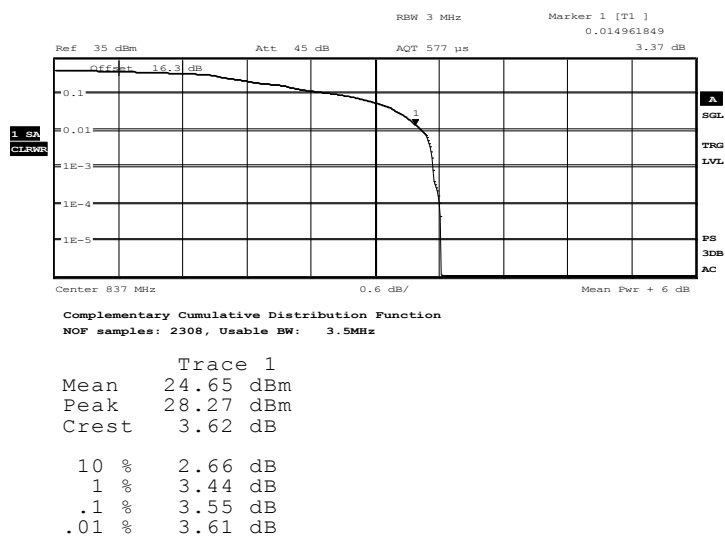
Diagram 3: Channel 251

1.6.2. GSM 850 (8-PSK Modulation)



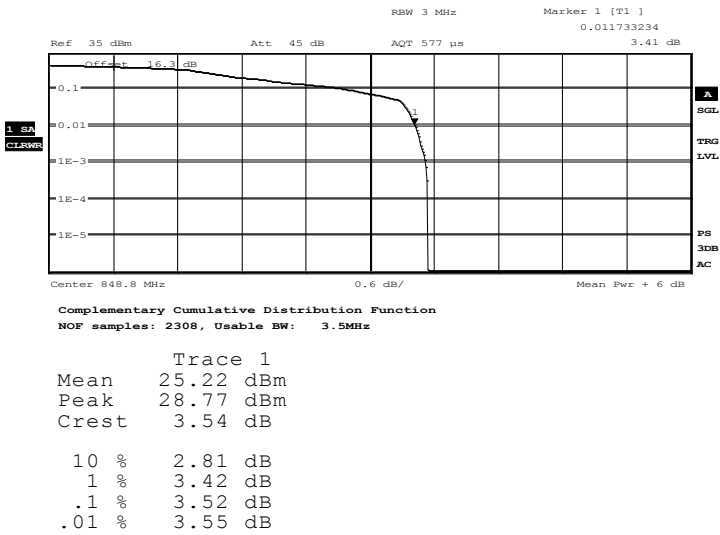
Date: 24.MAY.2017 11:23:19

Diagram 4: Channel 128



Date: 24.MAY.2017 11:25:31

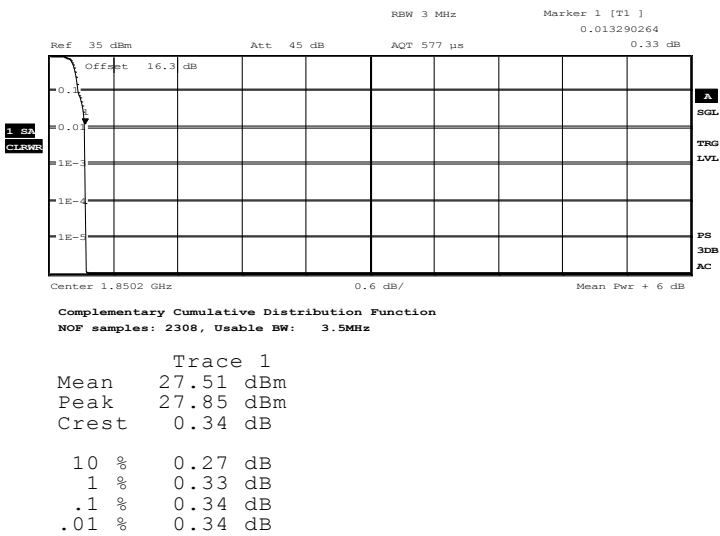
Diagram 5: Channel 192



Date: 24.MAY.2017 11:26:41

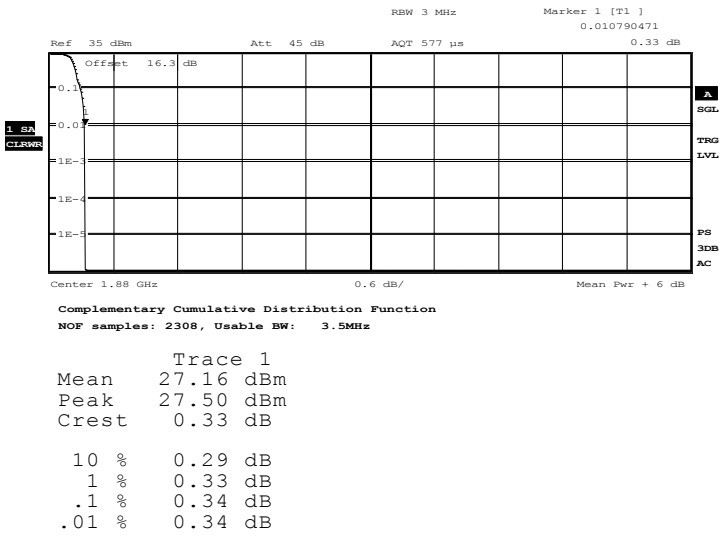
Diagram 6: Channel 251

1.6.3. GSM 1900 (GMSK Modulation)



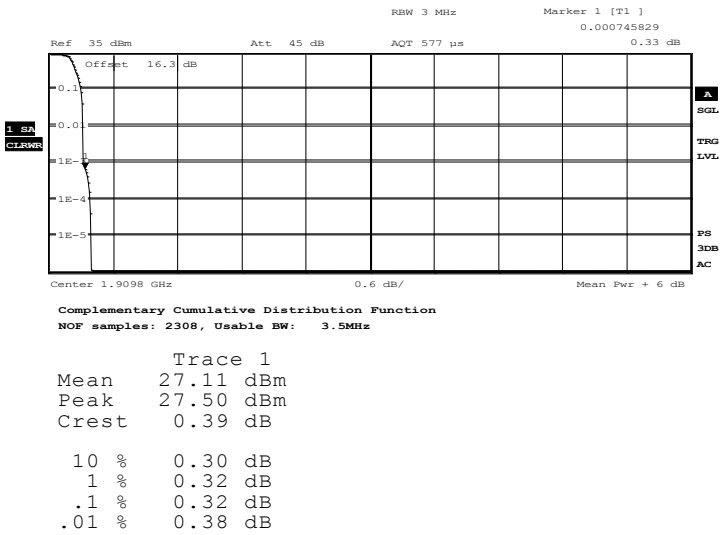
Date: 24.MAY.2017 10:50:00

Diagram 7: Channel 512



Date: 24.MAY.2017 10:54:17

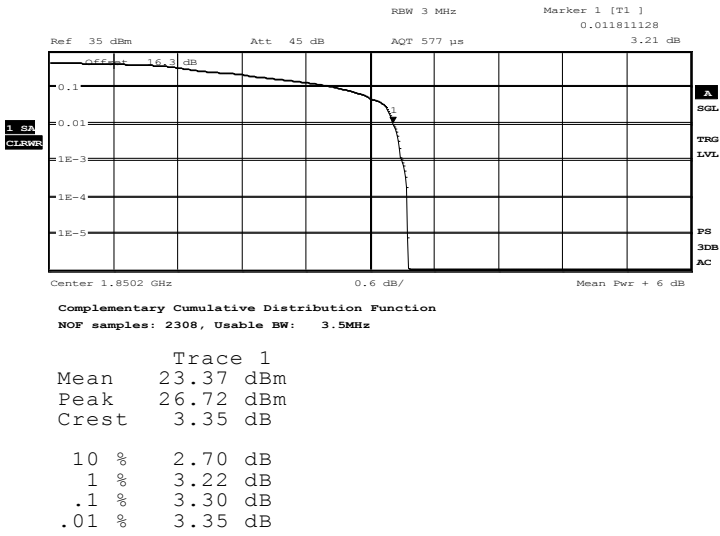
Diagram 8: Channel 661



Date: 24.MAY.2017 10:56:26

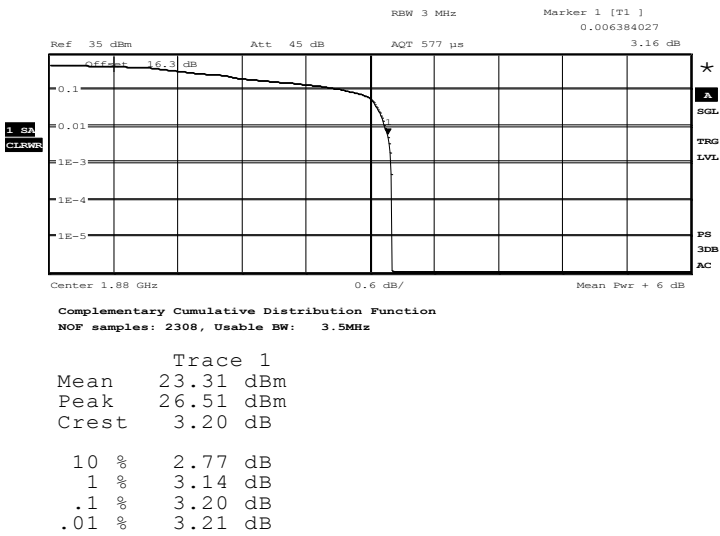
Diagram 9: Channel 810

1.6.4. GSM 1900 (8-PSK Modulation)



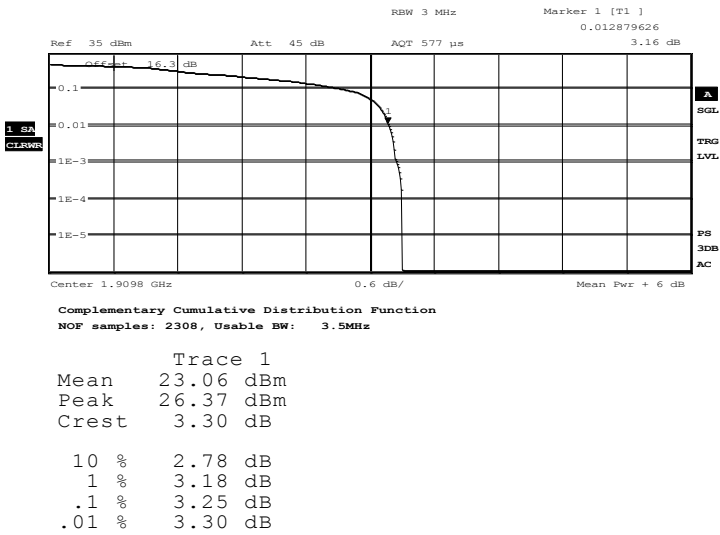
Date: 24.MAY.2017 11:04:51

Diagram 10: Channel 512



Date: 24.MAY.2017 11:06:27

Diagram 11: Channel 661



Date: 24.MAY.2017 11:07:52

Diagram 12: Channel 810