

Annex 1: Measurement diagrams 18-1-0173201T48a-C3-A1

Number of pages:	17	Date of Report:	2021-Jan-05
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	Actia Nordic AB
Test Object / Tested Device(s):	Telematics Device / 103250101		
FCC ID:	2AGKK103250101		
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter B Part 22 Subpart H, Part 24 Subpart E, Part 27 Subpart C RSS-130 Issue 2, RSS-132 Issue 5, RSS-133 Issue 6, RSS-139 Issue 3 RSS Gen Issue 5 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit"		



Table of Contents

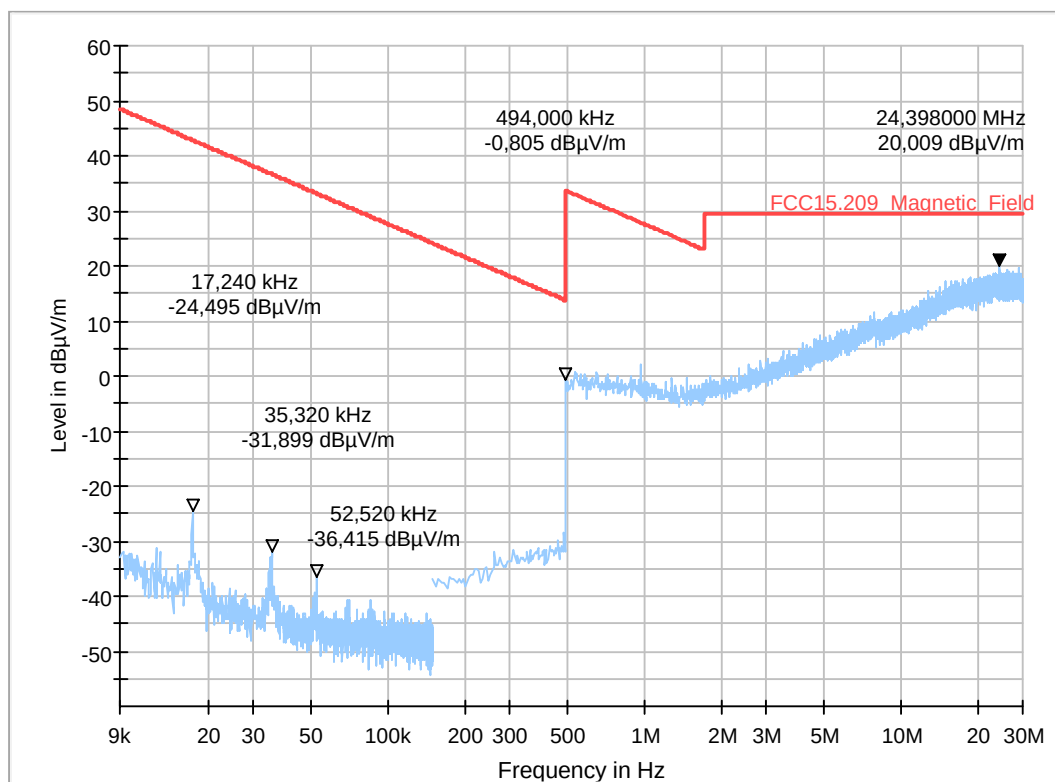
1 Measurement diagrams.....3

1 Measurement diagrams

2.01_Magnetic_Emission_WCDMA_Band_II_EUT_laying

Common information	
Test Description	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site	SAC1
Test Standard	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operation Mode	1
Environmental Conditions	Humidity : 45% rH; Temperature: 18 °C
Operator	TFra
Verdict	Passed
Comment	EUT Elevation: 0°(Laying)
EUT information	
PMT sample No	18-1-01732S32_C01

Full Spectrum



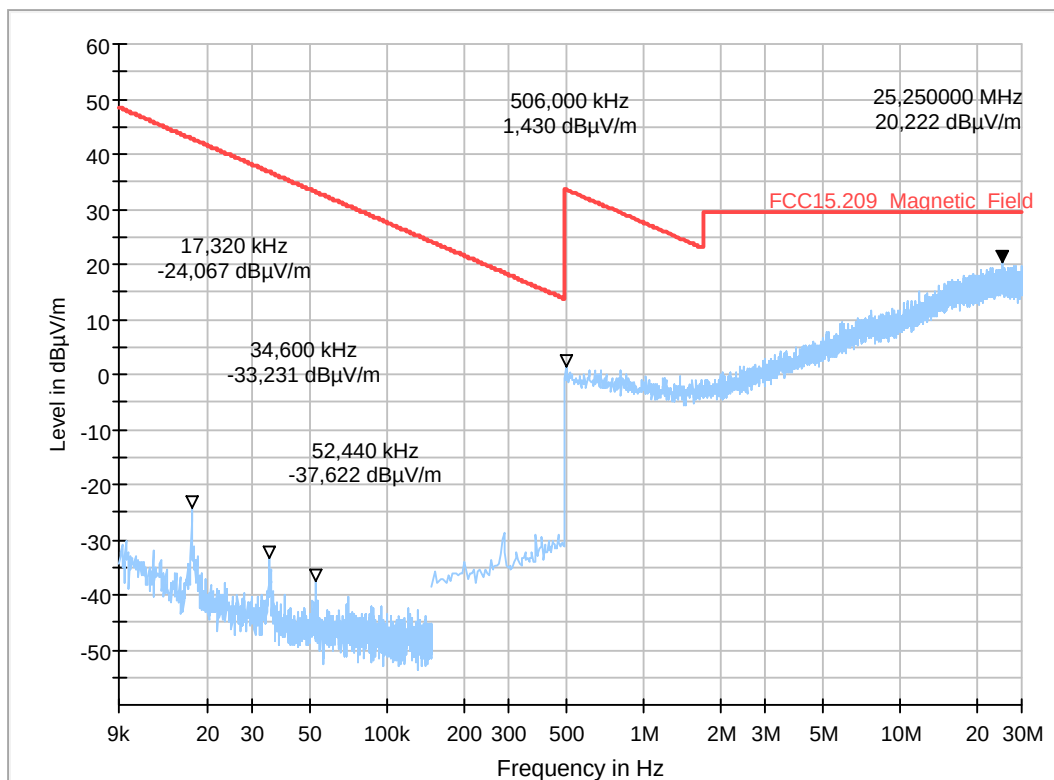
Remrks:

- No critical frequency found.

2.02_Magnetic_Emission_WCDMA_Band_II_EUT_standing

Common information	
Test Description	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site	SAC1
Test Standard	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operation Mode	1
Environmental Conditions	Humidity : 45% rH; Temperature: 18 °C
Operator	TFra
Verdict	Passed
Comment	EUT Elevation: 0°(Laying)
EUT information	
PMT sample No	18-1-01732S32_C01

Full Spectrum



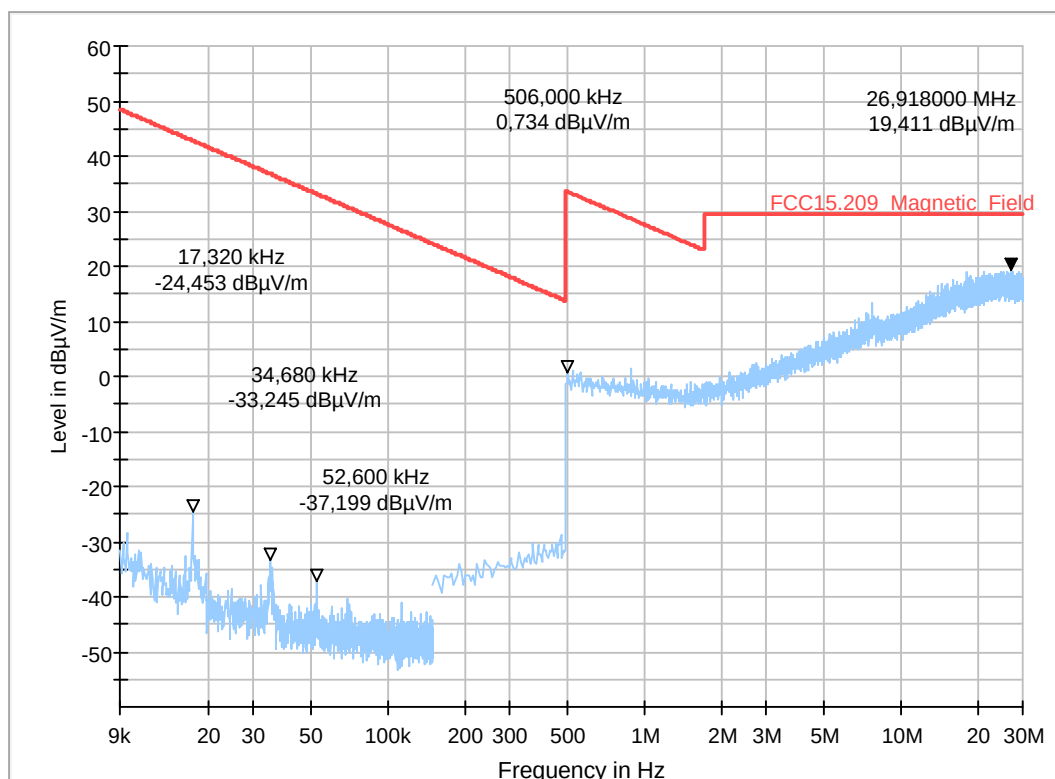
Remrks:

- No critical frequency found.

2.03_Magnetic_Emission_WCDMA_Band_IV_EUT_laying

Common information	
Test Description	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site	SAC1
Test Standard	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operation Mode	2
Environmental Conditions	Humidity : 45% rH; Temperature: 18 °C
Operator	TFra
Verdict	Passed
Comment	EUT Elevation: 0°(Laying)
EUT information	
PMT sample No	18-1-01732S32_C01

Full Spectrum



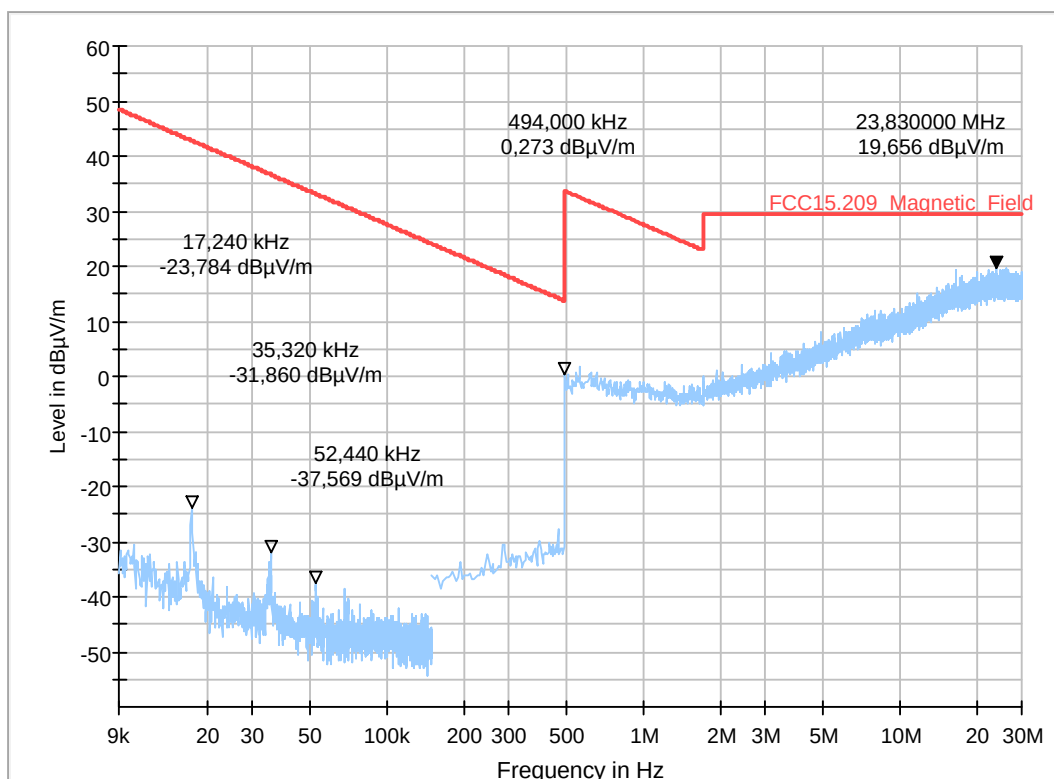
Remrks:

- No critical frequency found.

2.04_Magnetic_Emission_WCDMA_Band_IV_EUT_standing

Common information	
Test Description	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site	SAC1
Test Standard	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operation Mode	2
Environmental Conditions	Humidity : 45% rH; Temperature: 18 °C
Operator	TFra
Verdict	Passed
Comment	EUT Elevation: 0°(Laying)
EUT information	
PMT sample No	18-1-01732S32_C01

Full Spectrum



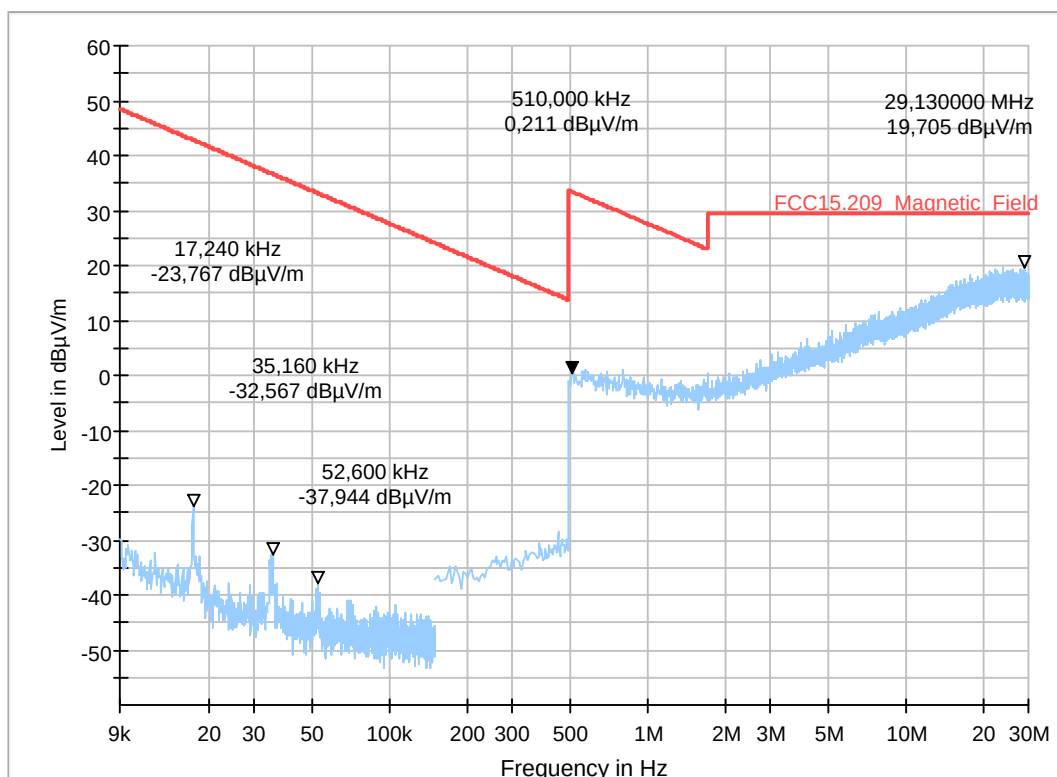
Remrks:

- No critical frequency found.

2.05_Magnetic_Emission_WCDMA_Band_V_EUT_laying

Common information	
Test Description	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site	SAC1
Test Standard	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operation Mode	3
Environmental Conditions	Humidity : 45% rH; Temperature: 18 °C
Operator	TFra
Verdict	Passed
Comment	EUT Elevation: 0°(Laying)
EUT information	
PMT sample No	18-1-01732S32_C01

Full Spectrum



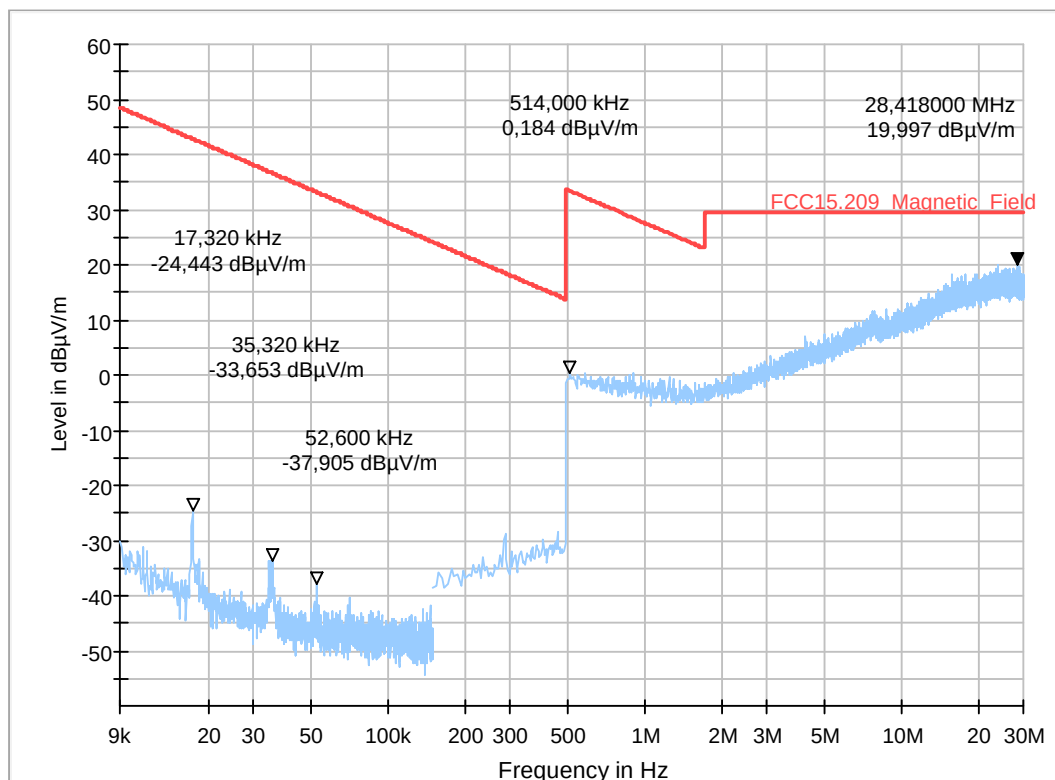
Remrks:

- No critical frequency found.

2.06_Magnetic_Emission_WCDMA_Band_V_EUT_standing

Common information	
Test Description	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site	SAC1
Test Standard	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operation Mode	3
Environmental Conditions	Humidity : 45% rH; Temperature: 18 °C
Operator	TFra
Verdict	Passed
Comment	EUT Elevation: 0°(Laying)
EUT information	
PMT sample No	18-1-01732S32_C01

Full Spectrum

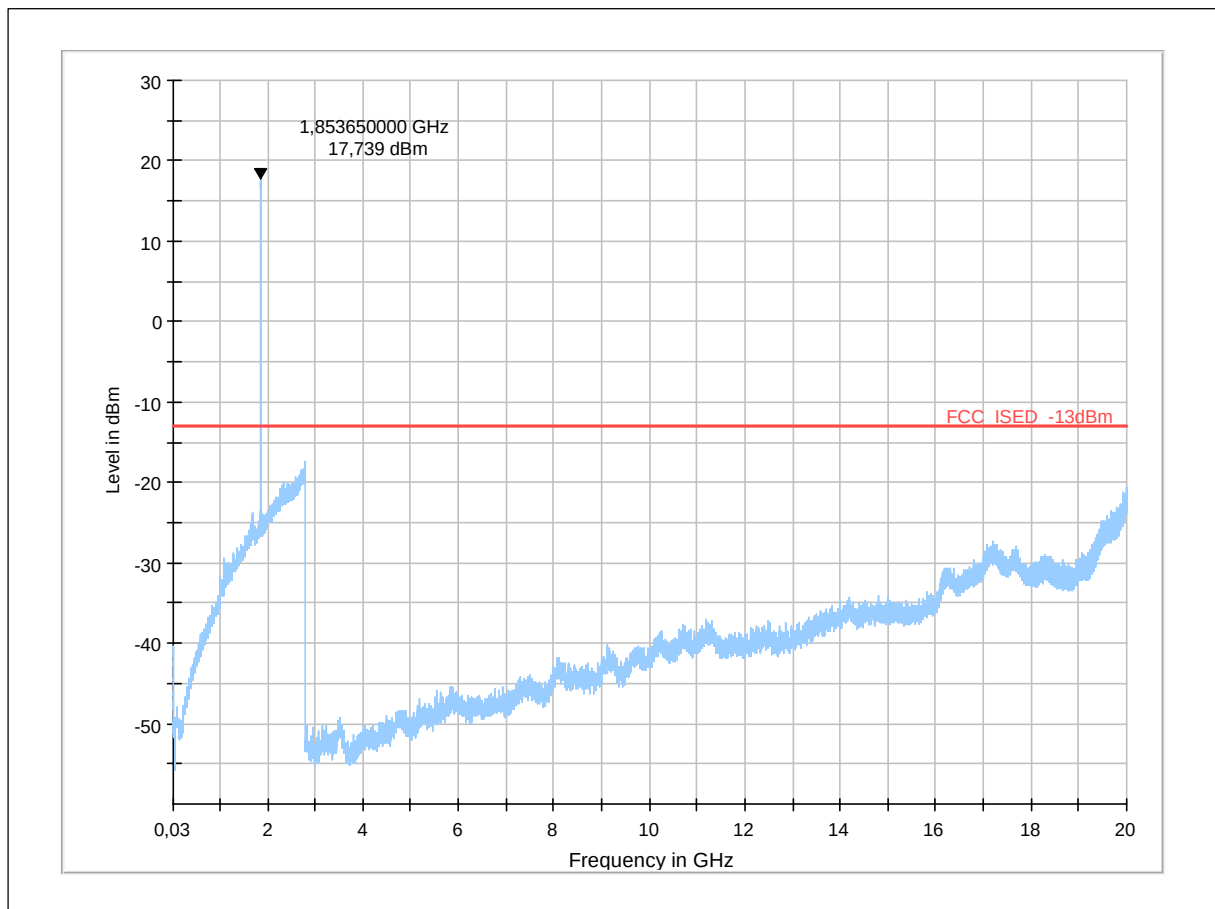


Remrks:

- No critical frequency found.

8.01_Traffic_mode_WCDMA_Band_II_Channel_9263

Common information	
Test Description	Radiated Spurious Emission
Test Site	Fully-Anechoic Chamber 1
Operation Mode	1
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 10:43:24
EUT information	
PMT sample No	18-1-01732532_C01_C01

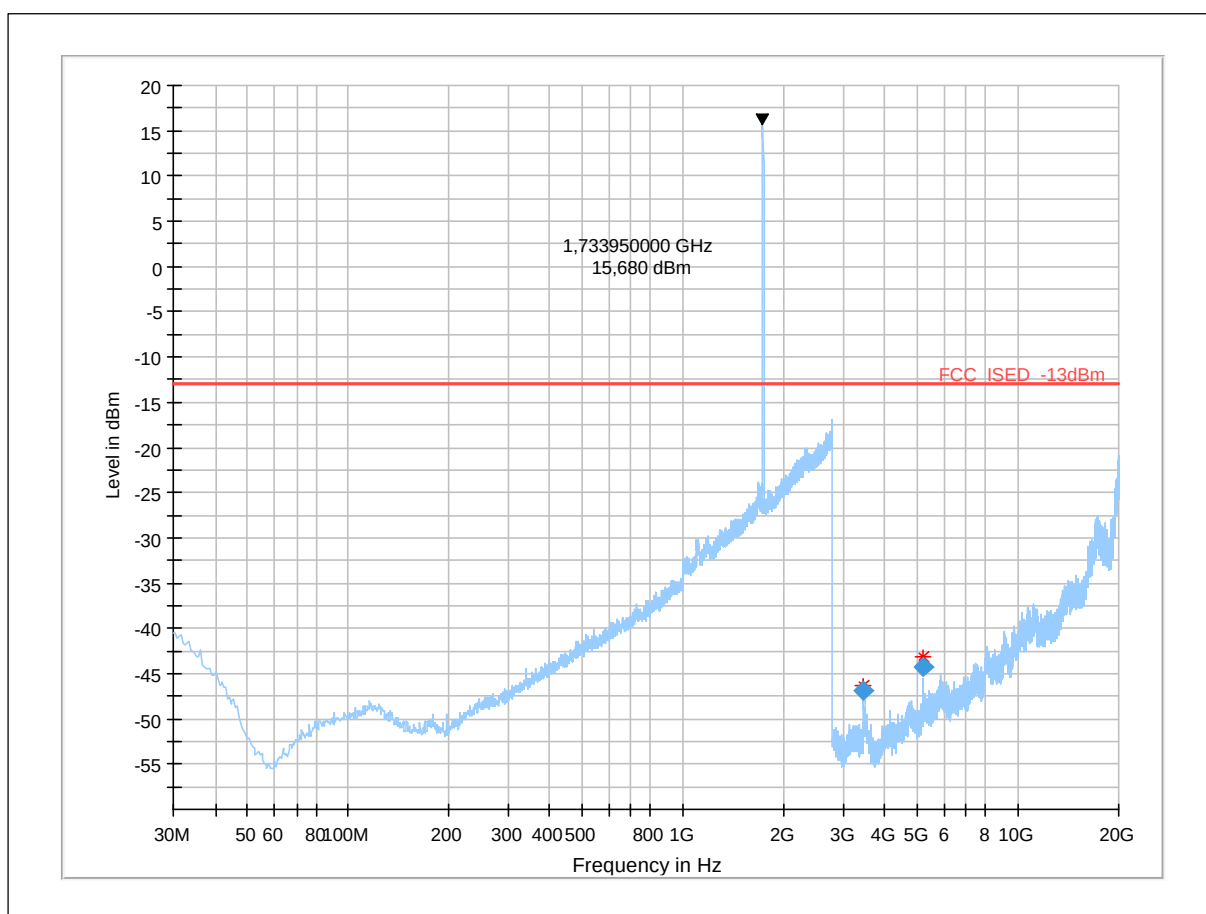


Remraks:

- Emission at 1.853650000 GHz is Uplink frequency of WCDMA Band II, not related to Results.

8.02_Traffic_mode_WCDMA_Band_IV_Channel_1413

Common information	
Test Description	Radiated Spurious Emission
Test Site	Fully-Anechoic Chamber 1
Operation Mode	2
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 13:00:24
EUT information	
PMT sample No	18-1-01732S32_C01_C01



Remraks:

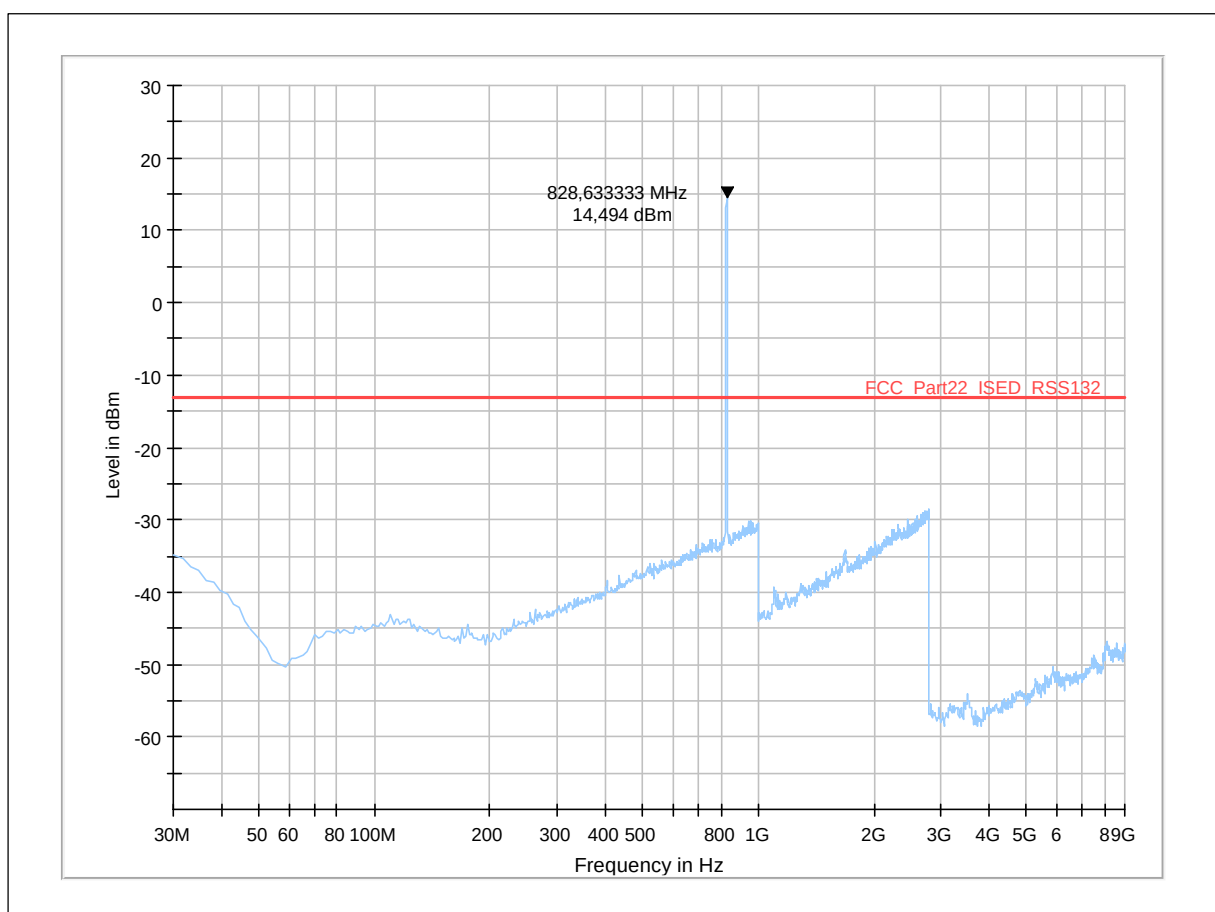
- Emission at 1.733950000 GHz is Uplink frequency of WCDMA Band IV, not related to Results.

RMS

Frequency [MHz]	RMS [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Elevation [deg]	Results
3467.093	-46.85	-13	33.85	155	V	266	0	PASSED
5195.825	-44.23	-13	31.23	155	H	2	0	PASSED

8.03_Traffic_mode_WCDMA_Band_V_Channel_4133

Common information	
Test Description	Radiated Spurious Emission
Test Site	Fully-Anechoic Chamber 1
Operation Mode	3
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 14:22:38
EUT information	
PMT sample No	18-1-01732S32_C01_C01

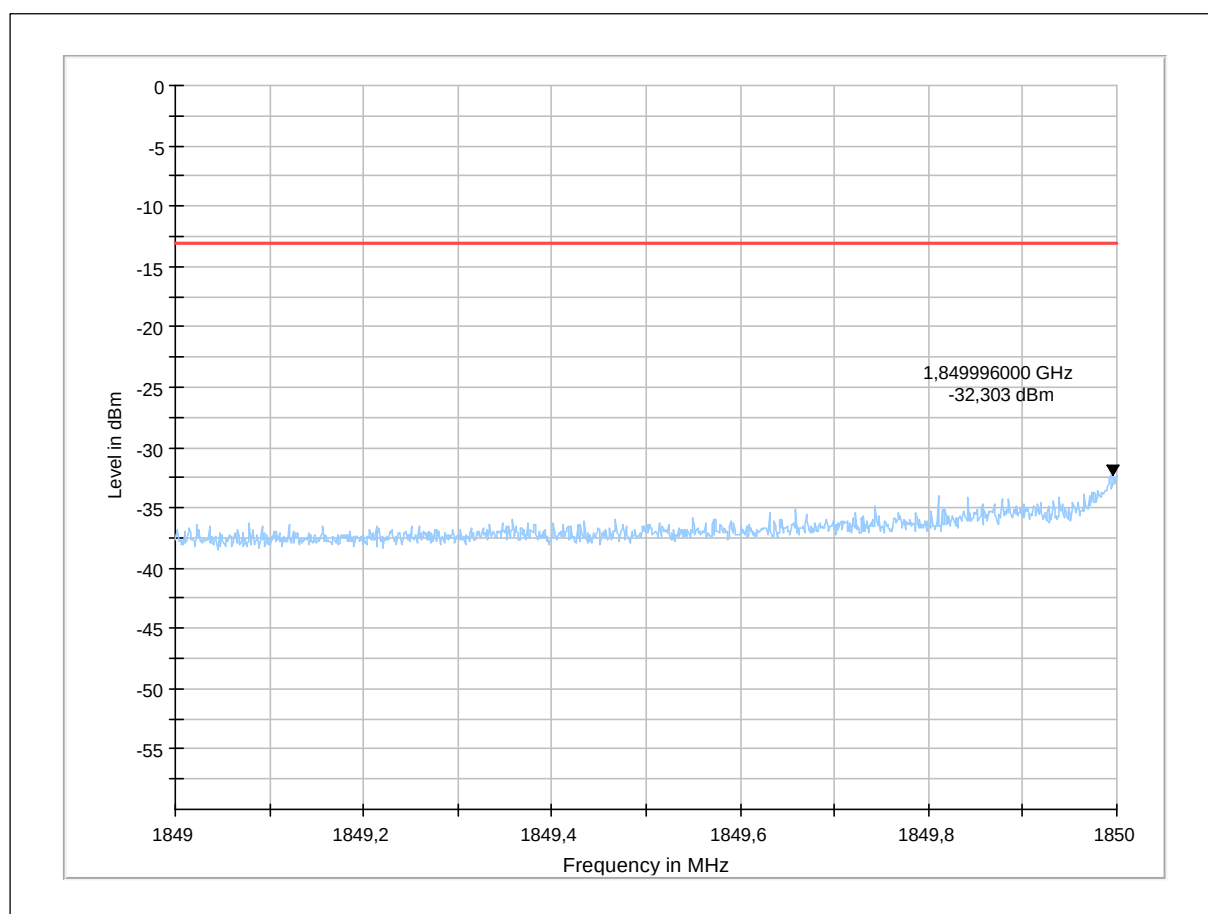


Remraks:

- Emission at 828.633333 MHz is Uplink frequency of WCDMA Band V, not related to Results.

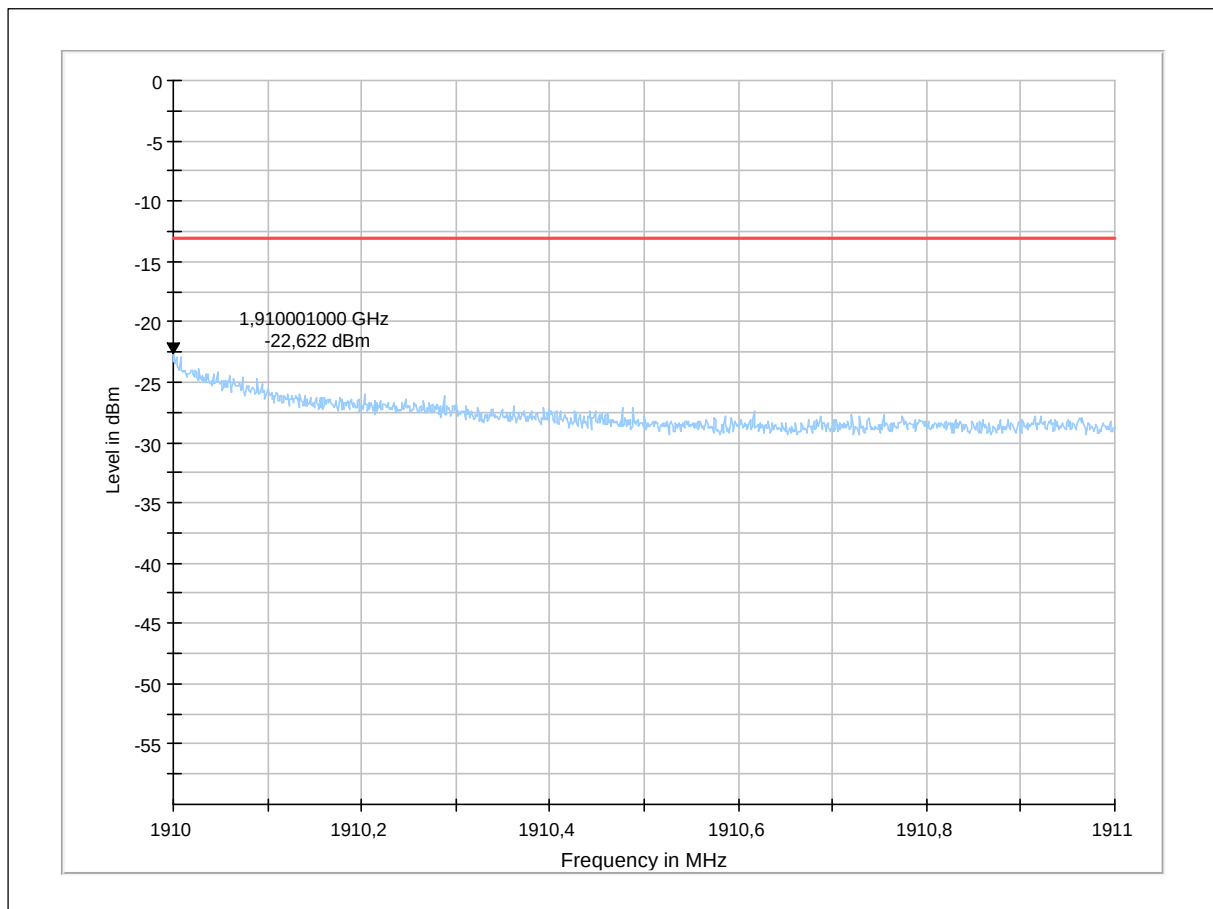
9.201_Band-Edge_Channel_9262_UL_1852.4MHz

Common information	
Test Description	Radiated Band Edge Compliance
Test Site	Fully-Anechoic Chamber 1
Operation Mode	WCDMA_Band_II_channel_low_9262
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 11:23:45
EUT information	
PMT sample No	18-1-01732S32_C01_C01



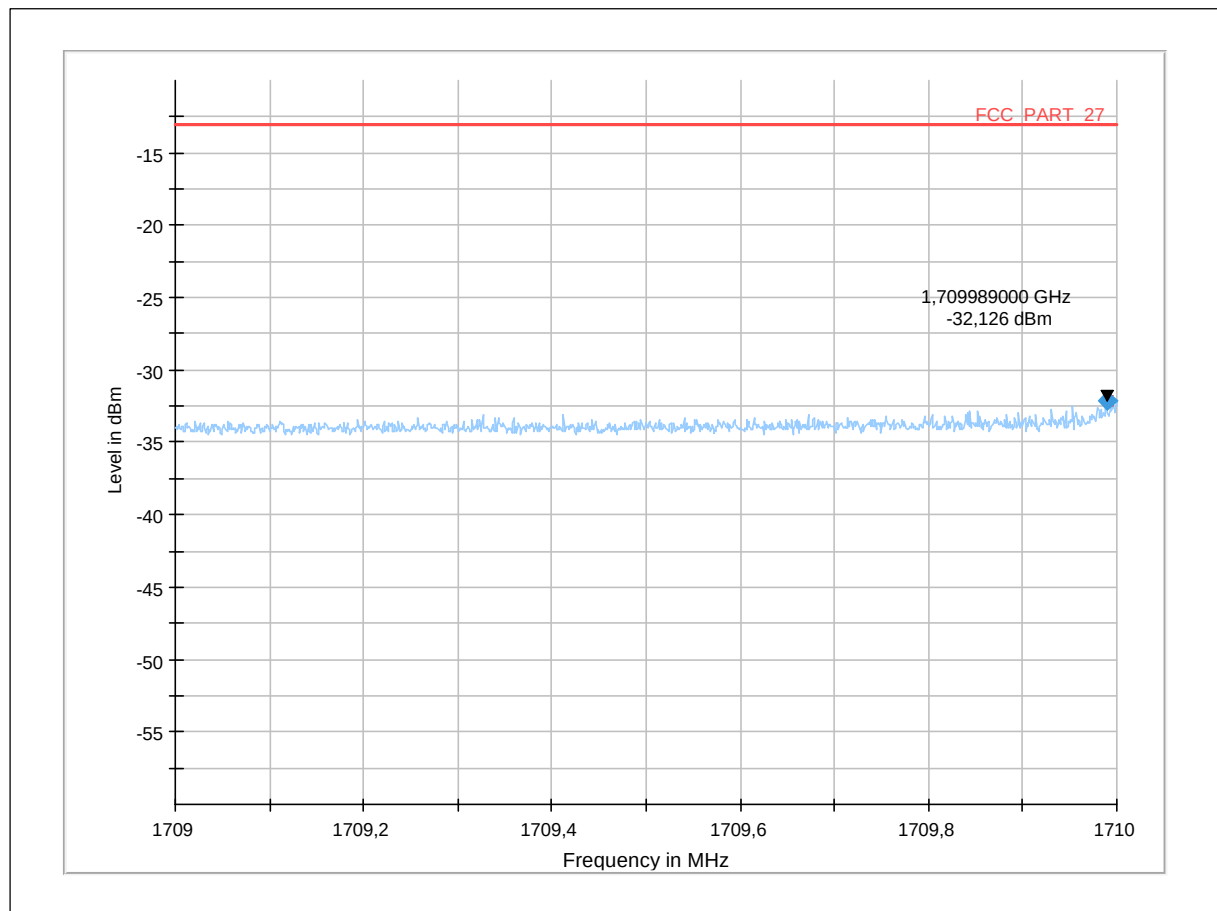
9.202_Band-Edge_Channel_9538_UL_1907.6MHz

Common information	
Test Description	Radiated Band Edge Compliance
Test Site Location	CETECOM GmbH Essen
Test Site	Fully Anechoic Chamber 1
Operation Mode	WCDMA_Band_II_channel_high_9538
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 11:52:51
EUT information	
PMT sample No	18-1-01732S32_C01_C01



9.401_Band-Edge_Channel_1312_UL_1712.6MHz

Common information	
Test Description	Radiated Band Edge Compliance
Test Site Location	CETECOM GmbH Essen
Test Site	Fully Anechoic Chamber 1
Operation Mode	WCDMA_Band_IV_channel_low_1312
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 13:16:08
EUT information	
PMT sample No	18-1-01732S32_C01_C01

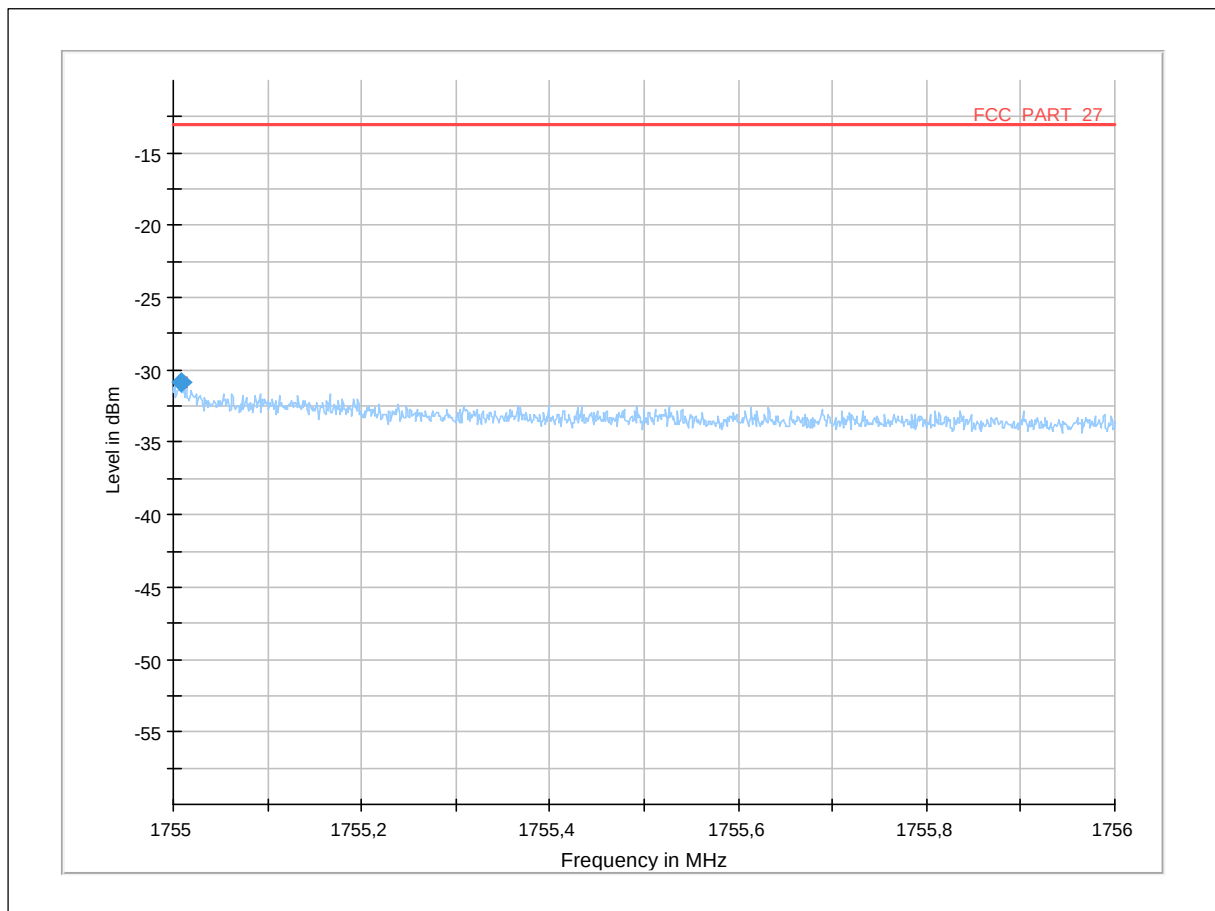


RMS

Frequency [MHz]	RMS [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Elevation [deg]	Results
1709.989	-32.13	-13	19.13	155	H	311	90	PASSED

9.402_Band-Edge_Channel_1513_UL_1752.4MHz

Common information	
Test Description	Radiated Band Edge Compliance
Test Site Location	CETECOM GmbH Essen
Test Site	Fully Anechoic Chamber 1
Operation Mode	WCDMA_Band_IV_channel_high_1513
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 13:31:52
EUT information	
PMT sample No	18-1-01732S32_C01_C01

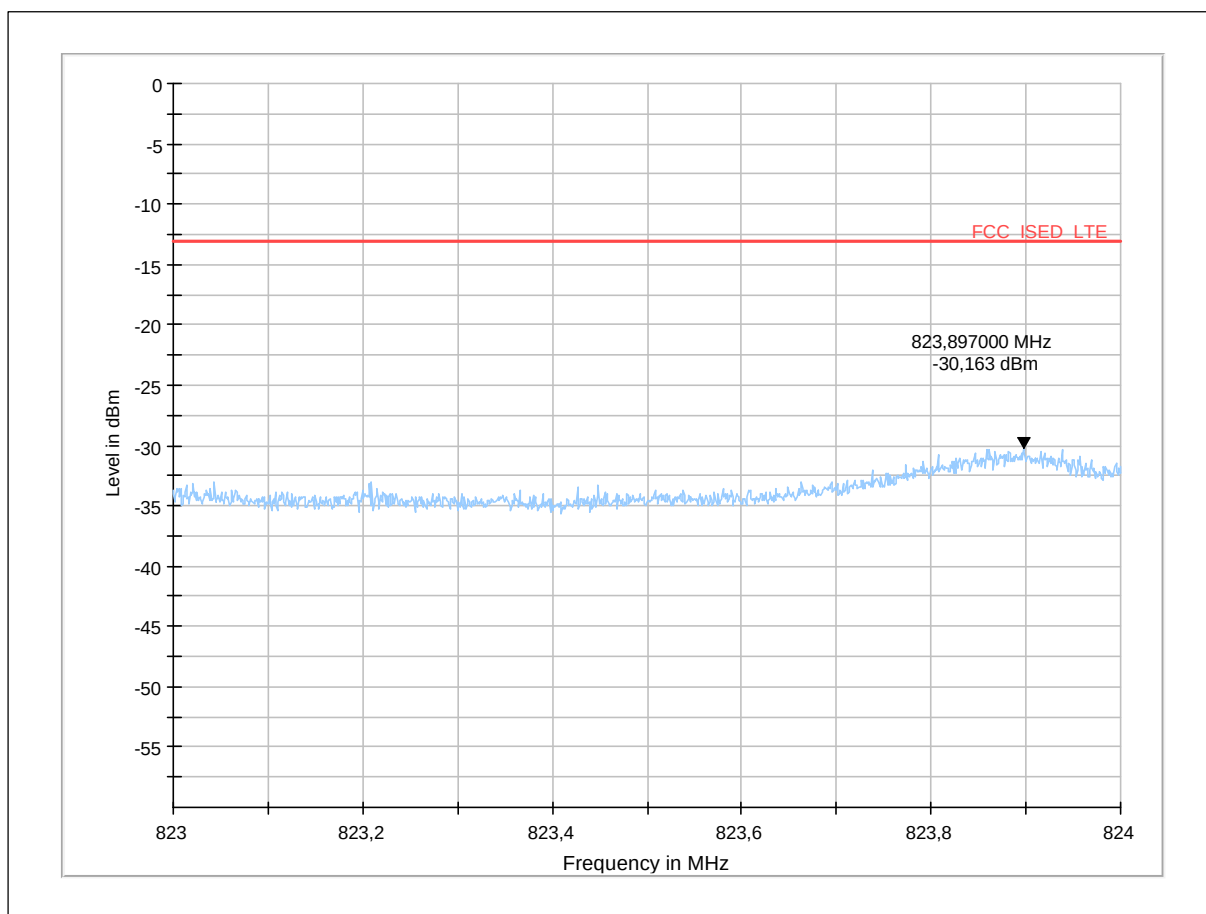


RMS

Frequency [MHz]	RMS [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Elevation [deg]	Results
1755.008	-30.82	-13	17.82	155	H	21	0	PASSED

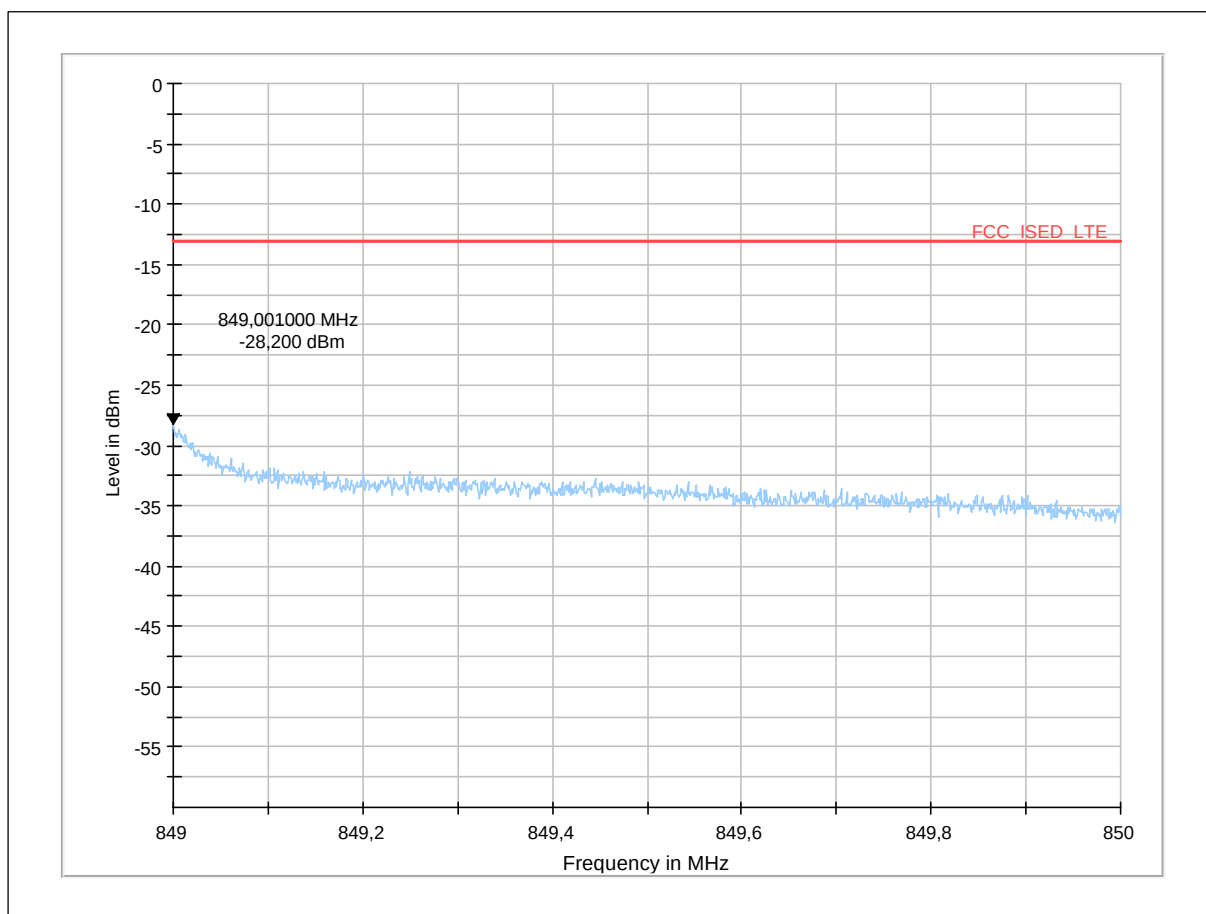
9.501_Band-Edge_Channel_4132_UL_826.4MHz

Common information	
Test Description	Radiated Band Edge Compliance
Test Site Location	CETECOM GmbH Essen
Test Site	Fully Anechoic Chamber 1
Operation Mode	WCDMA_Band_V_channel_low_4132
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 14:33:37
EUT information	
PMT sample No	18-1-01732S32_C01_C01



9.502_Band-Edge_Channel_4233_UL_846.6MHz

Common information	
Test Description	Radiated Band Edge Compliance
Test Site Location	CETECOM GmbH Essen
Test Site	Fully Anechoic Chamber 1
Operation Mode	WCDMA_Band_V_channel_high_4233
Environmental Conditions	Humidity : 60% rH; Temperature: 20 °C
Operator	TFra
Verdict	PASSED
Test Completed	14.09.2020 15:03:54
EUT information	
PMT sample No	18-1-01732S32_C01_C01



End of Annex 1