

## Annex 1: Measurement diagrams 21-1-0103301T07a-A1

<b>Number of pages:</b>	51	<b>Date of Report:</b>	2022-Jan-14
<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>	Leica Geosystems AG
<b>Product:</b>	UAV 3D measurement device		
<b>Model:</b>	BLK2FLY		
<b>FCC ID:</b>	RFD-BLK2FLY	<b>IC:</b>	3177A-BLK2FLY
<b>Testing has been carried out in accordance with:</b>	Title 47 CFR, Chapter I FCC Regulations, Subchapter B Part 22 Subpart H, Part 24 Subpart E, Part 27 Subpart C  RSS-132, Issue 3; RSS-133, Issue 6; RSS-130, Issue 2, RSS-139, Issue 3  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

### 1.1 Radiated spurious emissions

## 8.02\_Traffic\_mode\_LTE\_FDD\_B02\_CH\_18700

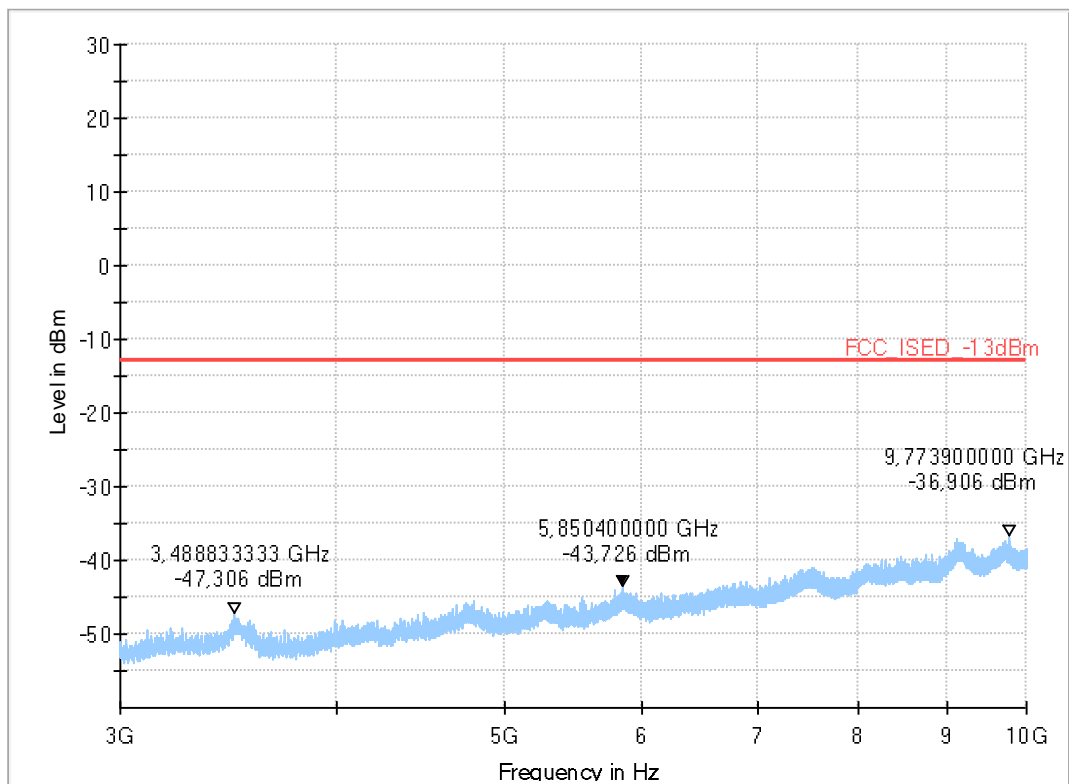
### Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully-Anechoic Chamber
Test Standard:	FCC Part 24
Antenna polarisation:	vertical / horizontal
Measurement software version	EMC32 V10.60.20
Operating Mode:	LTE_FDD2   BW=20 MHz   CH_18700   RB_1_low   QPSK
Operator:	Aho
EUT Setup:	1
Verdict:	Passed

### EUT Information

PMT number:	21-1-01033S04_C01
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Full Spectrum



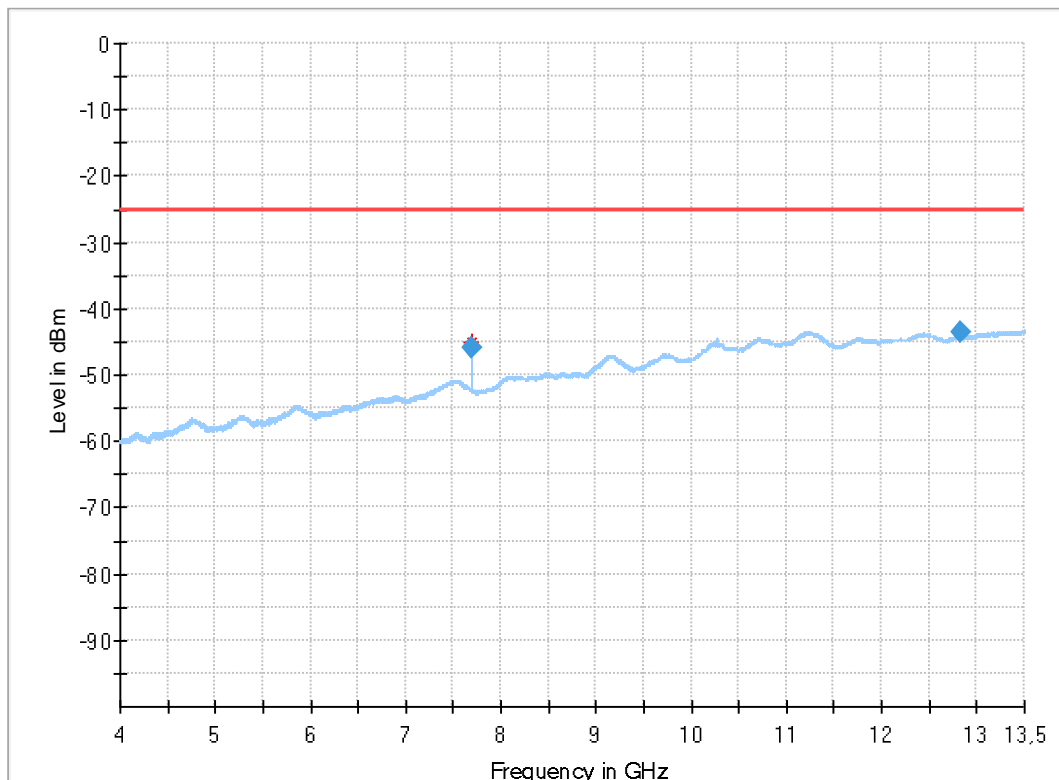
## 8.07\_Traffic\_mode\_LTE\_FDD\_B07\_CH\_21425

### Common Information

Test Description: Radiated Spurious Emission  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Test Case: TX Spurious Emissions  
 Operating Mode: LTE\_FDD07 | BW=5MHz | CH\_21425 |RB:1|pos 12|QPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Operator: Aho  
 EUT Setup: 1  
 Verdict: Passed  
 Comment:

### EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



### Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
7702.530000	-46.03	-25.00	21.03	1000.0	1000.000	V	35.0	90.0	-81
12837.590000	-43.49	-25.00	18.49	1000.0	1000.000	V	312.0	0.0	-73

## 8.12\_Traffic\_mode\_LTE\_FDD\_B12\_CH\_23130

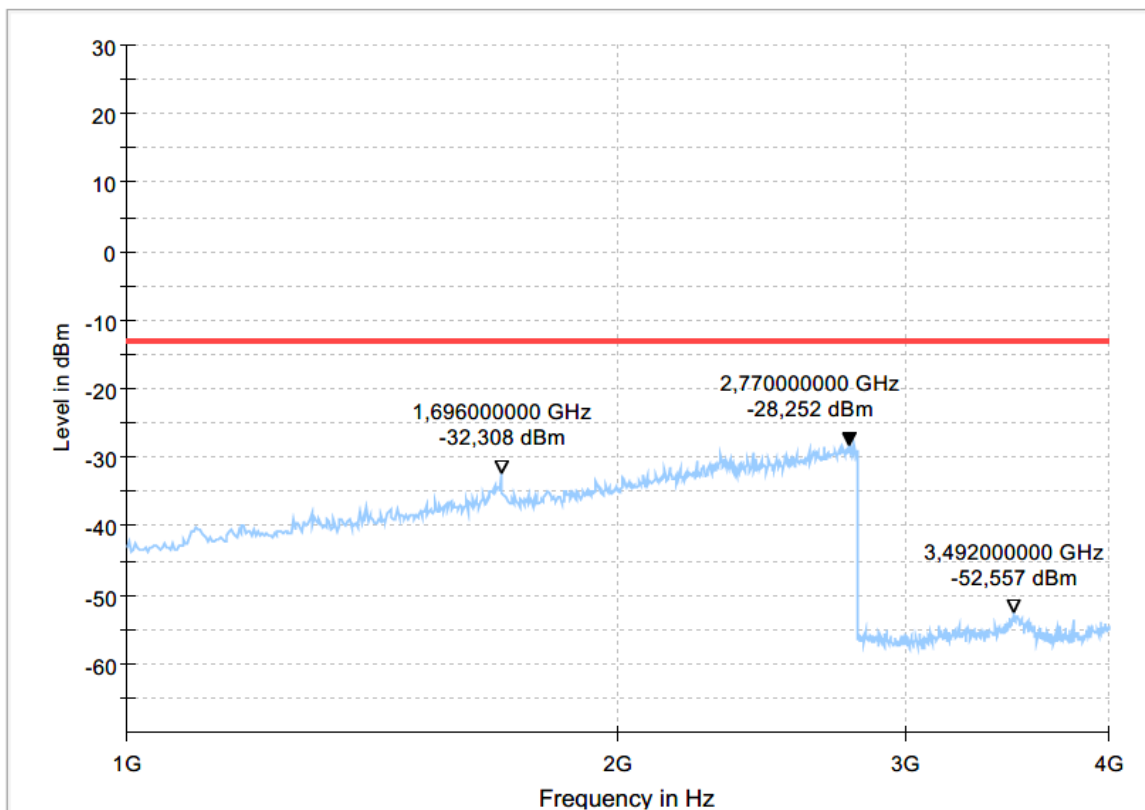
### Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 27
Operating Mode:	LTE_FDD12   BW=10MHz   CH_23130  RB:1 low QPSK
Operator:	Aho
Environmental Conditions:	Humidity : 60%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

### EUT Information

PMT number:	21-1-01033S04_C01
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Full Spectrum



## 8.13\_Traffic\_mode\_LTE\_FDD\_B13\_CH\_23230

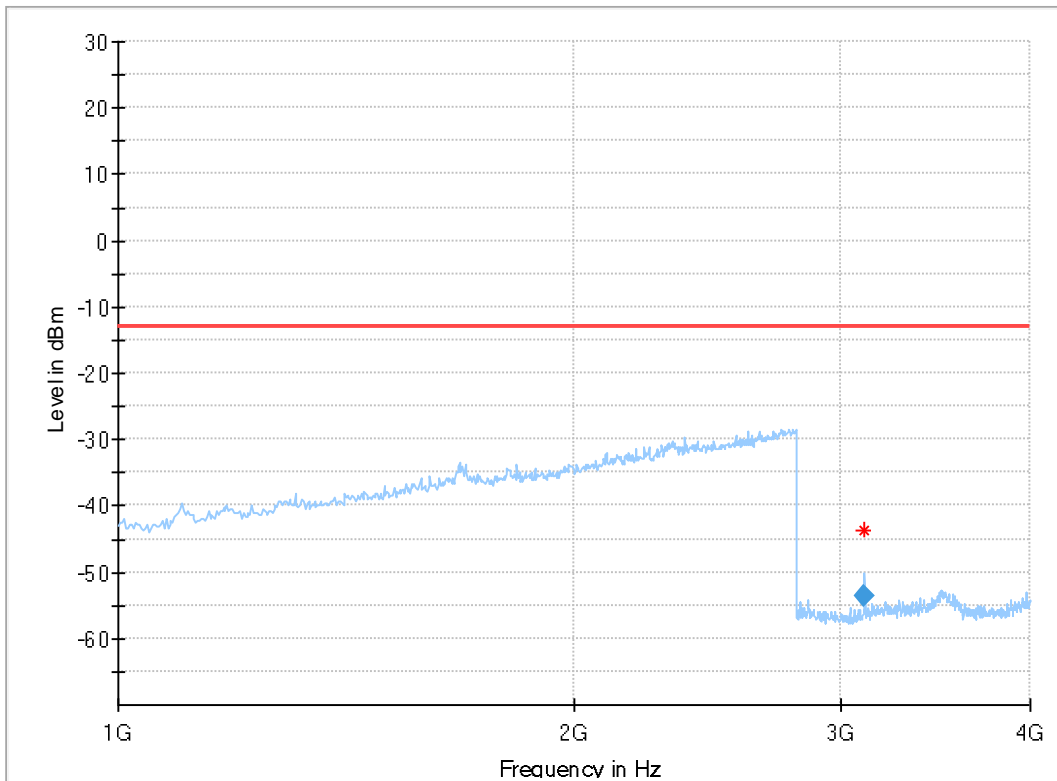
### Common Information

Test Description: Radiated Spurious Emission  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_FDD13 | BW=10MHz | CH\_23230 |RB:1|low|QPSK  
 Operator: Aho  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 EUT Setup: 1  
 Verdict: Passed

### EUT Information

PMT number: 21-1-01033S04\_C01

Full Spectrum



### Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB)
3110.400000	-53.61	-13.00	40.61	100.0	100.000	155.0	V	33.0	90.0	-94

# 8.13a\_Traffic\_mode\_LTE\_FDD\_B13\_CH\_23230\_GPS\_Band

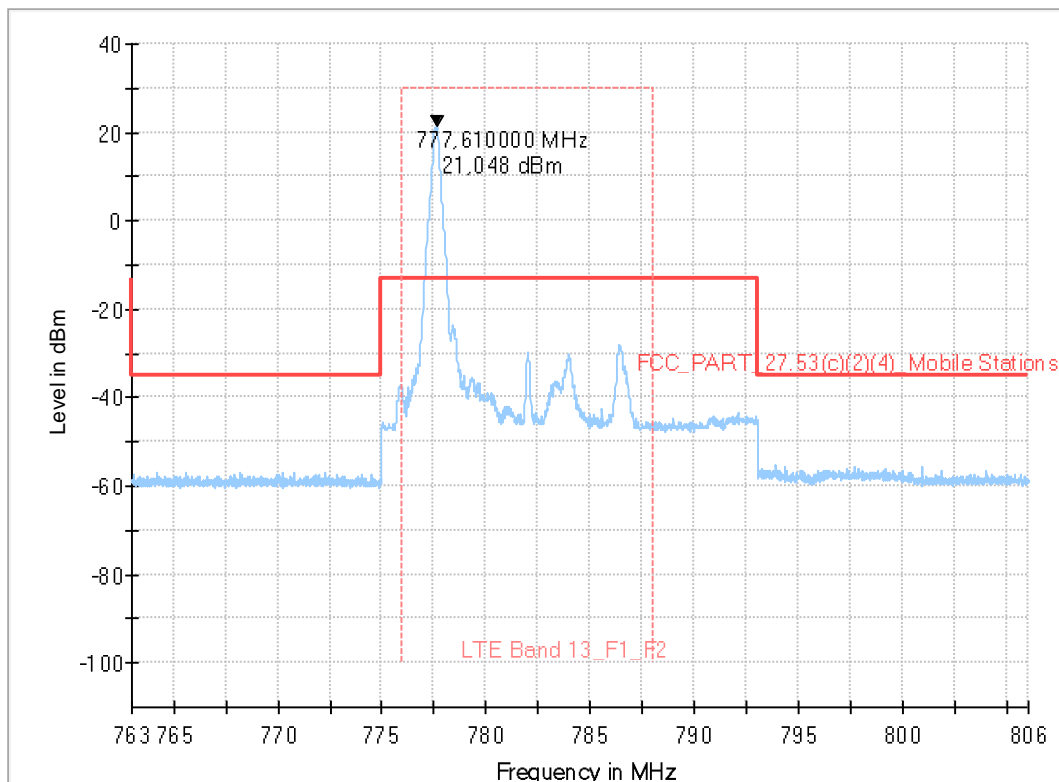
## Common Information

Test Description:	Radiated Spurious Emissions LTE Band 13
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 27
Operating Mode:	LTE_FDD13   BW=10MHz   CH_23230  RB:1 low QPSK
Exclusionband:	Uplink: 776-787MHz Downlink: -31MHz Offset
Environmental Conditions:	Humidity : 60%rH; Temperature: 20°C
Operator:	Aho
EUT Setup:	1
Verdict:	Passed

## EUT Information

PMT Sample Nr:	21-1-01033S04_C01
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Full Spectrum



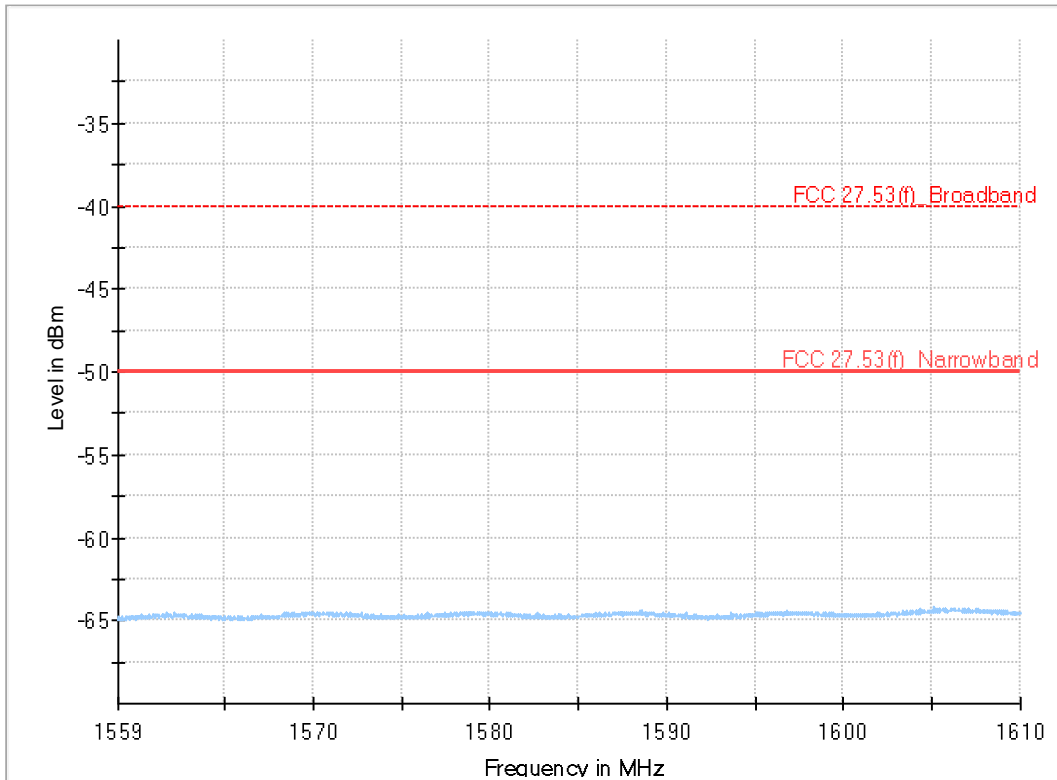
## 8.13b\_Traffic\_mode\_LTE\_FDD\_B13\_CH\_23230\_GPS\_Band

### Common Information

Test Description:	Radiated Spurious Emissions
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 27
Operating Mode:	LTE_FDD13   BW=10MHz   CH_23230  RB:1 low QPSK
Environmental Conditions::	Humidity : 60%rH; Temperature: 20°C
Operator:	Aho
EUT Setup:	1
Verdict:	Passed

### EUT Information

PMT number:	21-1-01033S04_C01
	Full Spectrum





## 8.26\_Traffic\_mode\_LTE\_FDD\_B26\_CH\_26965

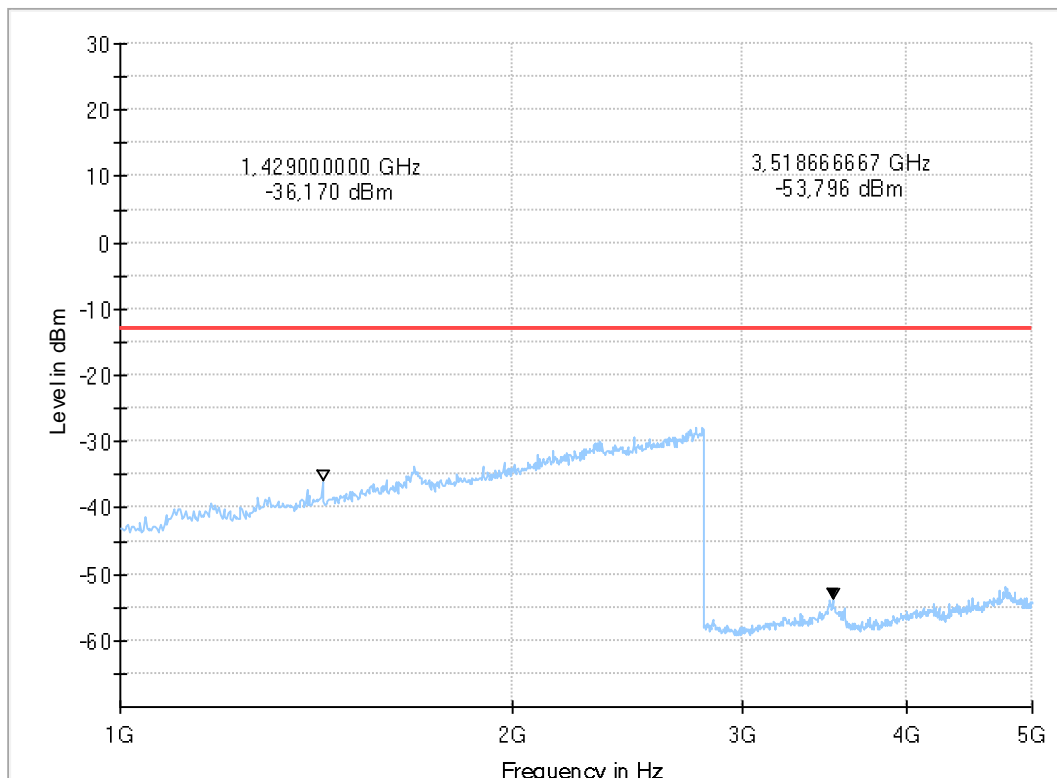
### Common Information

Test Description: Radiated emission related to 1m  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0  
 Test Standard: FCC FCC Part 24.238 Broadband PCS  
 Antenna polarisation: vertical / horizontal

EUT:  
 Manufacturer:  
 Operating Mode: LTE\_FDD26| CH 26965| SC 1 SC start 0 | QPSK  
 Operator: SSanthakum/LKnopp  
 Comment:  
 Environmental Conditions: Humidity : 40%rH; Temperature: 20°C  
 EUT Setup: 1  
 Verdict: Passed

### EUT Information

PMT number: 21-1-01033S04\_C01  
 Manufacturer: Leica Geosystems AG  
 Full Spectrum



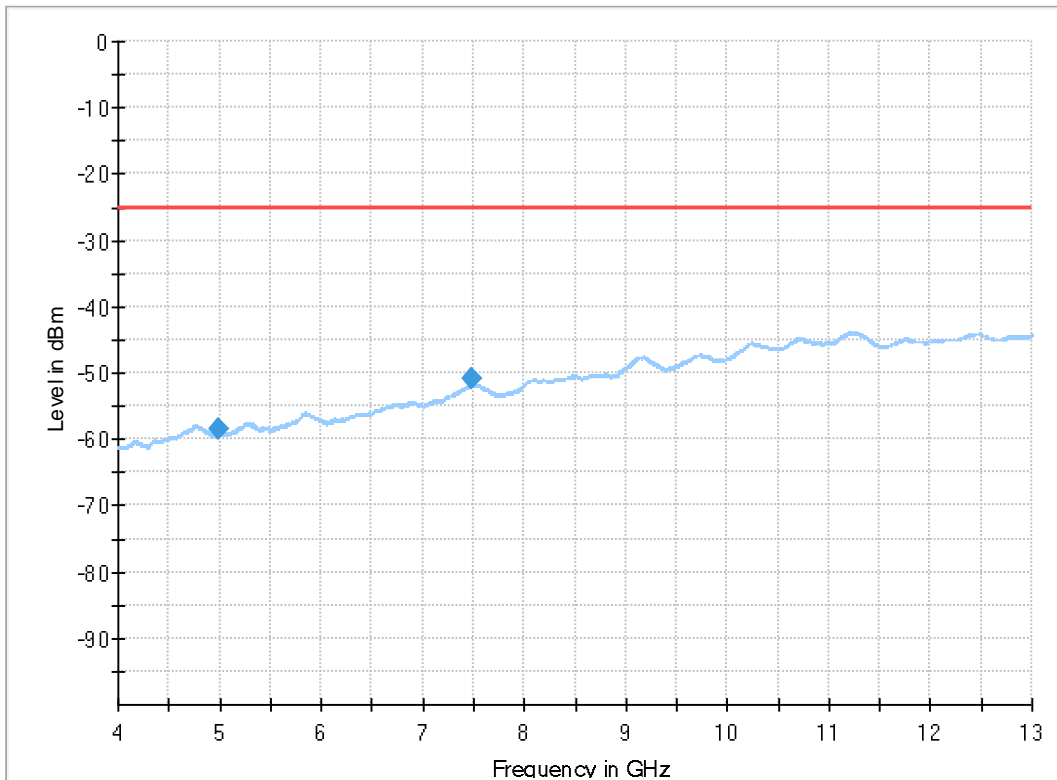
## 8.41\_Traffic\_mode\_LTE\_TDD\_B41\_CH\_39700

### Common Information

Test Description: -  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0  
 Test Standard: -  
 Test Case: -  
 Operating Mode: LTE\_TDD41 | BW=10MHz | CH\_39700 |RB:1|RB Pos:19|QPSK  
 Environmental Conditions: Humidity : 40%rH; Temperature: 20°C  
 Operator: SSanthakum/LKKnopp  
 EUT Setup: 1  
 Verdict: Passed  
 Comment:

### EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



### Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
4993.214000	-58.58	-25.00	33.58	1000.0	1000.000	V	313.0	0.0	-89.0
7489.874750	-50.98	-25.00	25.98	1000.0	1000.000	V	43.0	90.0	-79.8

## 8.66\_Traffic\_mode\_LTE\_FDD\_B66\_CH\_132322

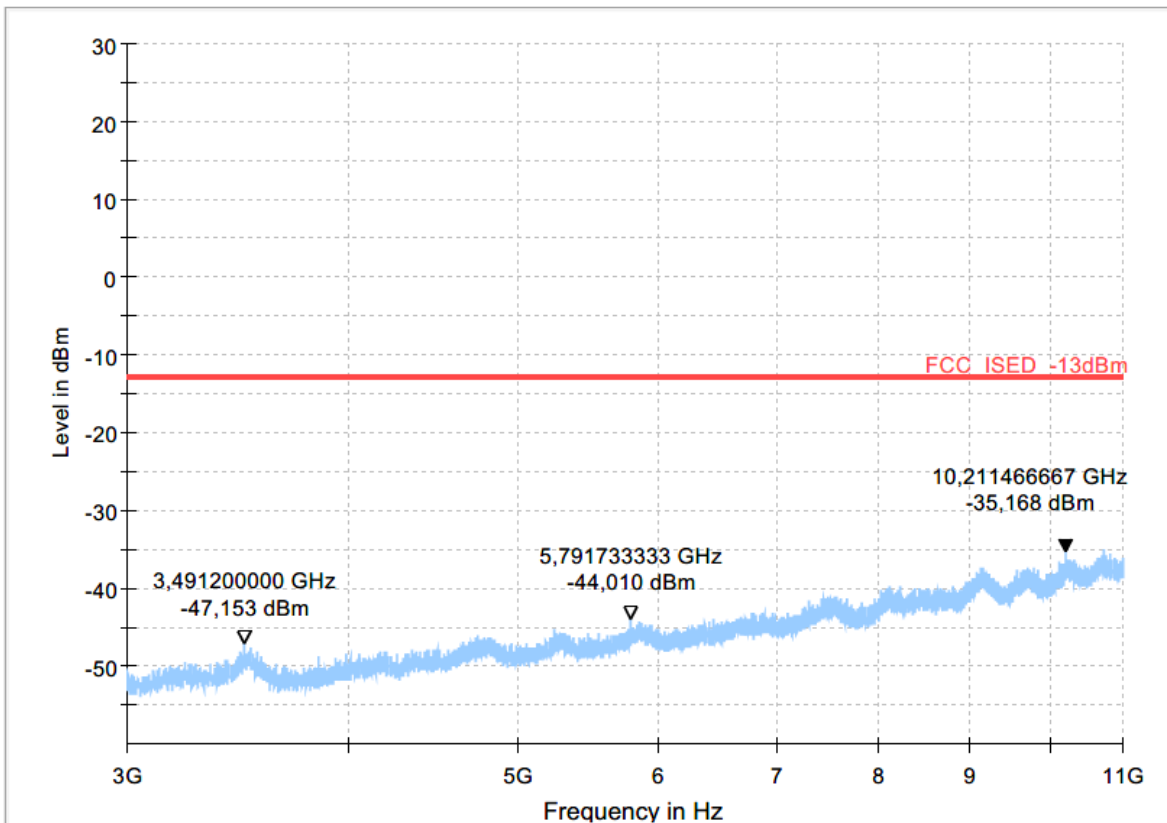
### Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully-Anechoic Chamber
Test Standard:	FCC Part 27
Measurement software version	EMC32 V10.60.20
Operating Mode:	LTE_TDD66   BW=20MHz   CH_ 132322 RB:1 RB Pos:low QPSK
Operator:	Aho
EUT Setup:	1
Verdict:	Passed

### EUT Information

PMT number: 21-1-01033S04\_C01

Full Spectrum



## 1.2 Radiated Band Edge

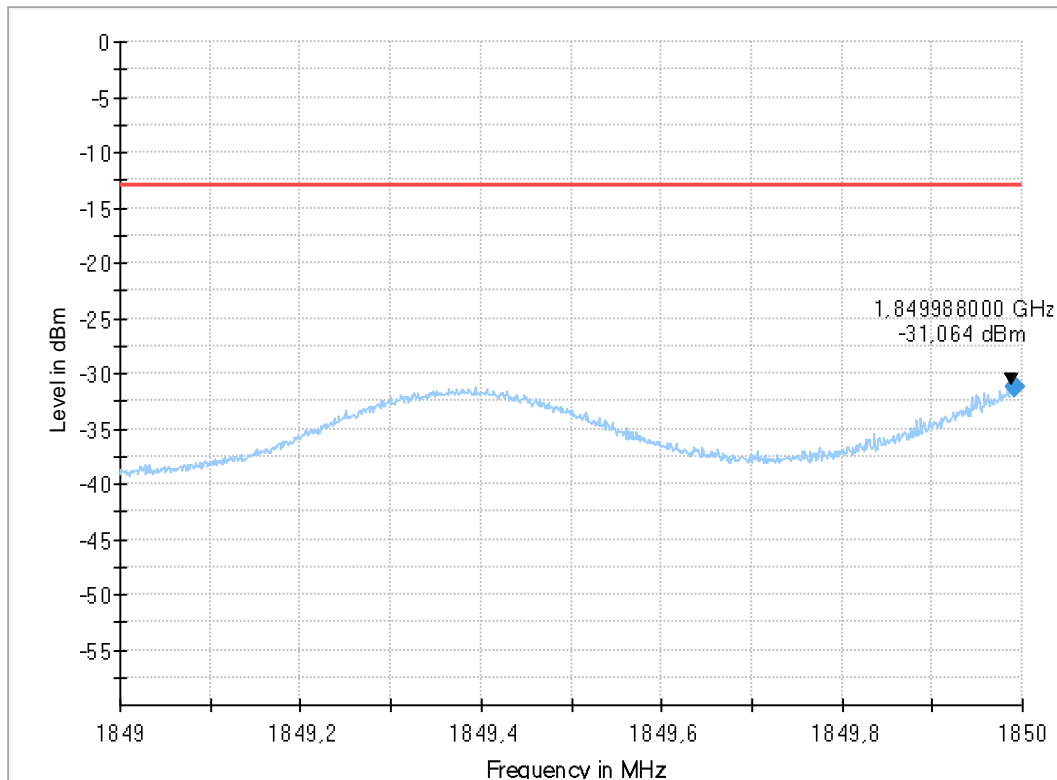
### 9.201\_Bandedge\_low\_LTE\_FDD\_B02\_CH\_low\_RB\_1\_low

#### Common Information

Test Description:	Band Edge Compliance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 24
Test Case:	Band-Edge low
Operating Mode:	LTE_FDD2   BW=20 MHz   CH_18700   RB_1_low   QPSK
Environmental Conditions::	Humidity : 60%rH; Temperature: 20°C
Operator:	Aho
EUT Setup:	1
Verdict:	Passed
Comment:	

#### EUT Information

PMT number: 21-1-01033S04\_C01  
Full Spectrum



#### Final\_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.992000	-31.16	-13.00	18.16	500.0	200.000	V	78.0	0.0	-62

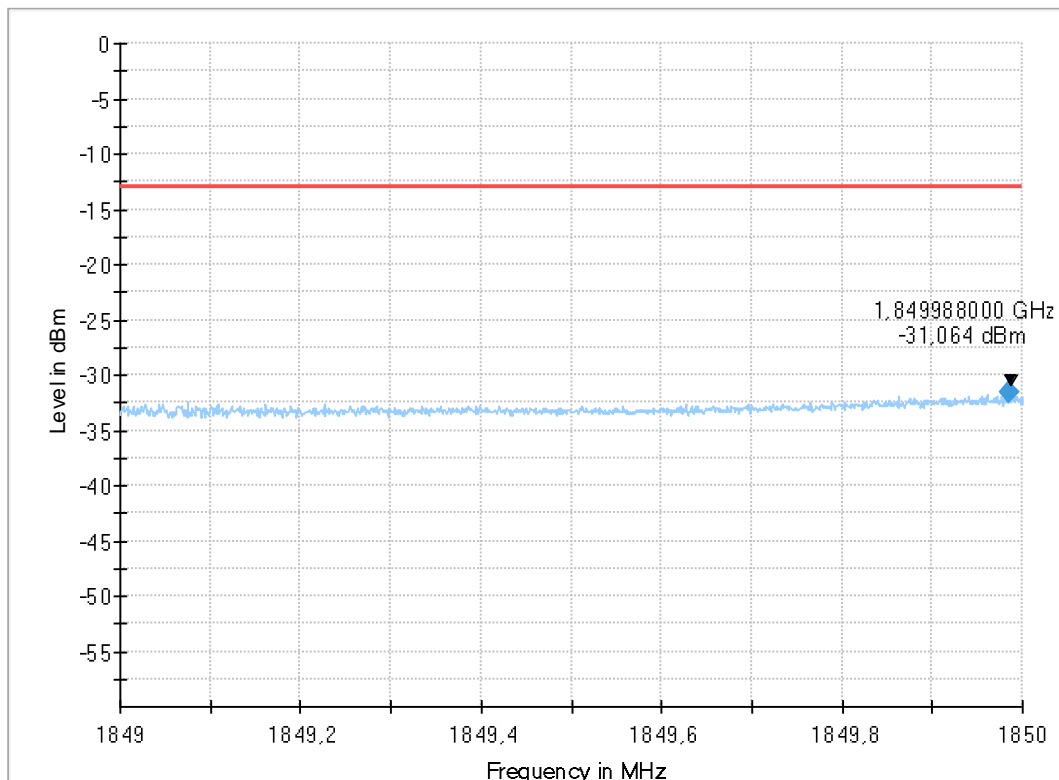
## 9.202\_Bandedge\_low\_LTE\_FDD\_B02\_CH\_low\_RB\_Full

### Common Information

Test Description:	Band Edge Compliance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 24
Test Case:	Band-Edge low
Operating Mode:	LTE_FDD2   BW=20 MHz   CH_18700   RB_100  QPSK
Environmental Conditions::	Humidity : 60%rH; Temperature: 20°C
Operator:	Aho
EUT Setup:	1
Verdict:	Passed
Comment:	

### EUT Information

PMT number: 21-1-01033S04\_C01  
Full Spectrum



### Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1849.985000	-31.60	-13.00	18.60	500.0	200.000	V	75.0	0.0	-62

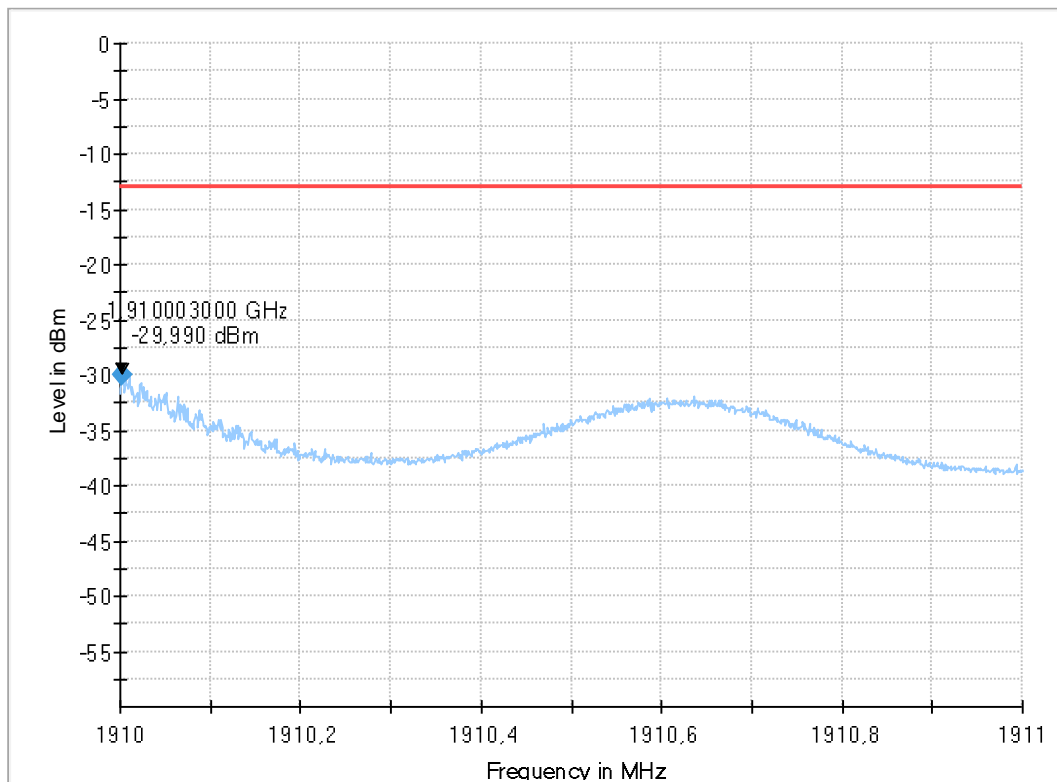
## 9.203\_Bandedge\_high\_LTE\_FDD\_B02\_CH\_high\_RB\_1\_high

### Common Information

Test Description:	Band Edge Compliance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 24
Test Case:	Band-Edge high
Operating Mode:	LTE_FDD2   BW=20 MHz   CH_19100   RB_1_high   QPSK
Environmental Conditions::	Humidity : 60%rH; Temperature: 20°C
Operator:	Aho
EUT Setup:	1
Verdict:	Passed
Comment:	

### EUT Information

PMT number:	21-1-01033S04_C01
	Full Spectrum



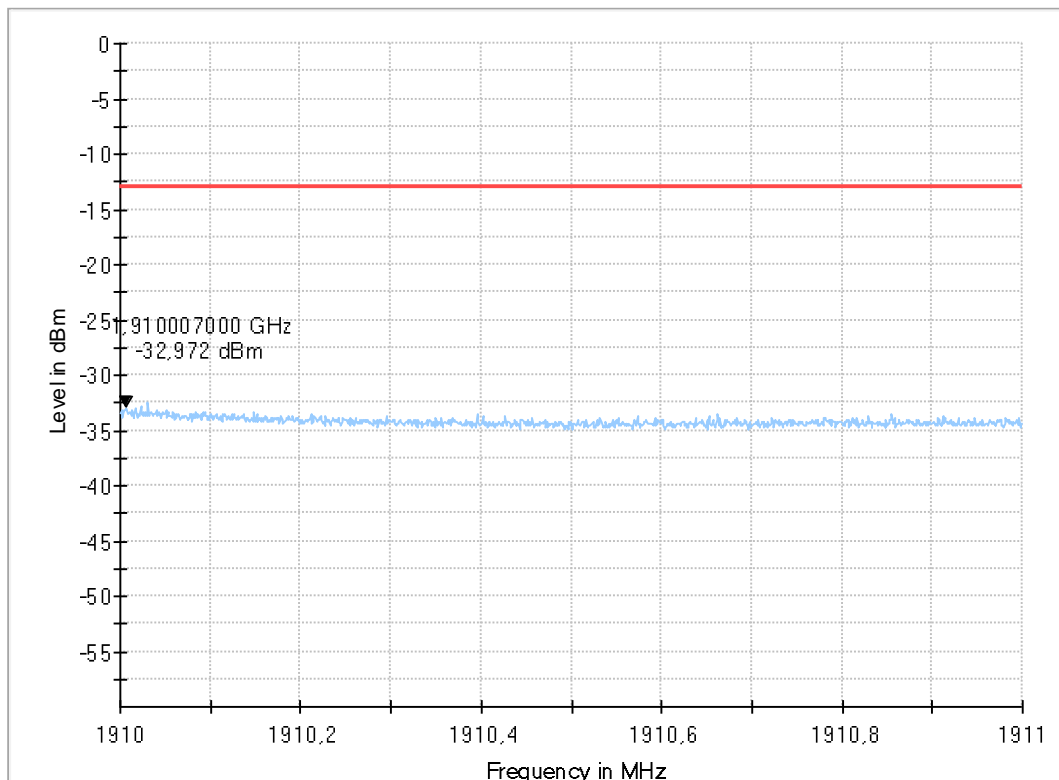
## 9.204\_Bandedge\_high\_LTE\_FDD\_B02\_CH\_high\_RB\_Full

### Common Information

Test Description:	Band Edge Compliance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 24
Test Case:	Band-Edge high
Operating Mode:	LTE_FDD2   BW=20 MHz   CH_19100   RB_100  QPSK
Environmental Conditions:	Humidity : 60%rH; Temperature: 20°C
Operator:	Aho
EUT Setup:	1
Verdict:	Passed
Comment:	

### EUT Information

PMT number:	21-1-01033S04_C01
	Full Spectrum



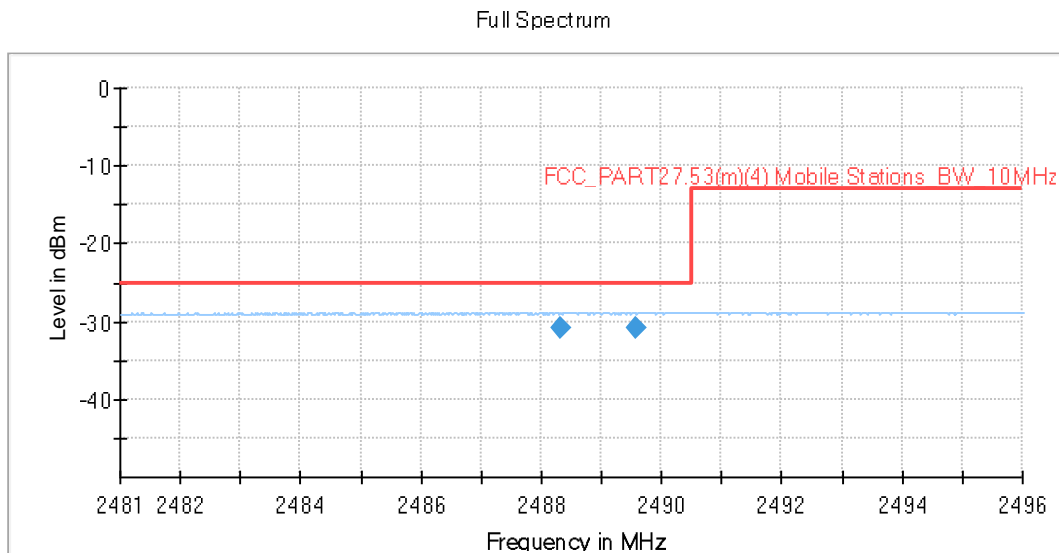
# 9.701\_Bandedge\_low\_LTE\_FDD\_B07\_CH\_low\_RB\_1\_low

## Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0  
 Test Standard: FCC Part 27.53(l)(4) / RSS-130 Mobile stations limits  
 Operating Mode: LTE\_FDD07| CH 20800| SC 1 SC start 0 | QPSK  
 Environmental Conditions: Humidity : 40%rH; Temperature: 20°C  
 Test SW Version: EMC32 V10.60.20  
 Operator: SSanthakum/LKnopp  
 Remarks: EUT - laying/standing position  
 EUT Setup: 1  
 Verdict: PassedComment:

## EUT Information

PMT number: 21-1-01033S04\_C01



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2488.320000	-30.75	-25.00	5.75	1000.0	1000.000	V	220.0	0.0	-58.3
2489.565000	-30.76	-25.00	5.76	1000.0	1000.000	V	43.0	90.0	-58.2



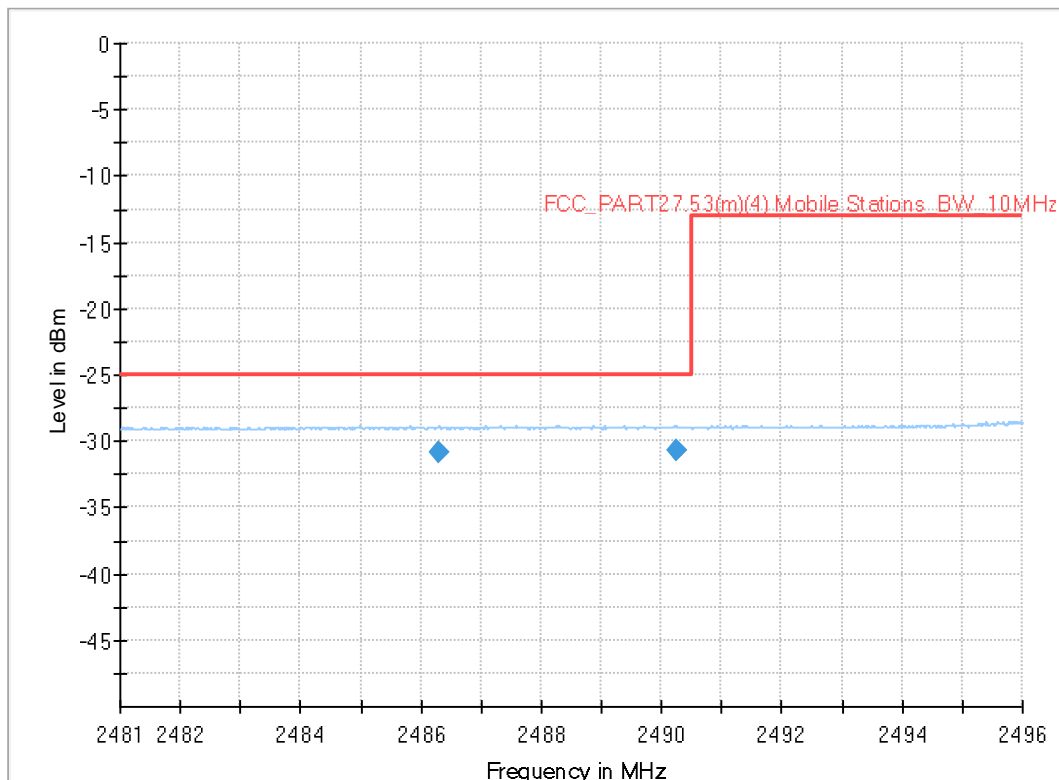
# 9.702\_Bandedge\_low\_LTE\_FDD\_B07\_CH\_low\_RB\_Full

## Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 7  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0  
 Test Standard: FCC Part 27.53(l)(4) / RSS-130 Mobile stations limits  
 Operating Mode: LTE\_FDD07| CH 20800| SC 1 SC start 0 | QPSK  
 Environmental Conditions: Humidity : 40%rH; Temperature: 20°C  
 Test SW Version: EMC32 V10.60.20  
 Operator: SSanthakum/LKnopp  
 Remarks: EUT - laying/standing position  
 EUT Setup: 1  
 Verdict: PassedComment:

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2486.310000	-30.79	-25.00	5.79	1000.0	1000.000	V	218.0	0.0	-58.3
2490.240000	-30.76	-25.00	5.76	1000.0	1000.000	V	338.0	90.0	-58.2

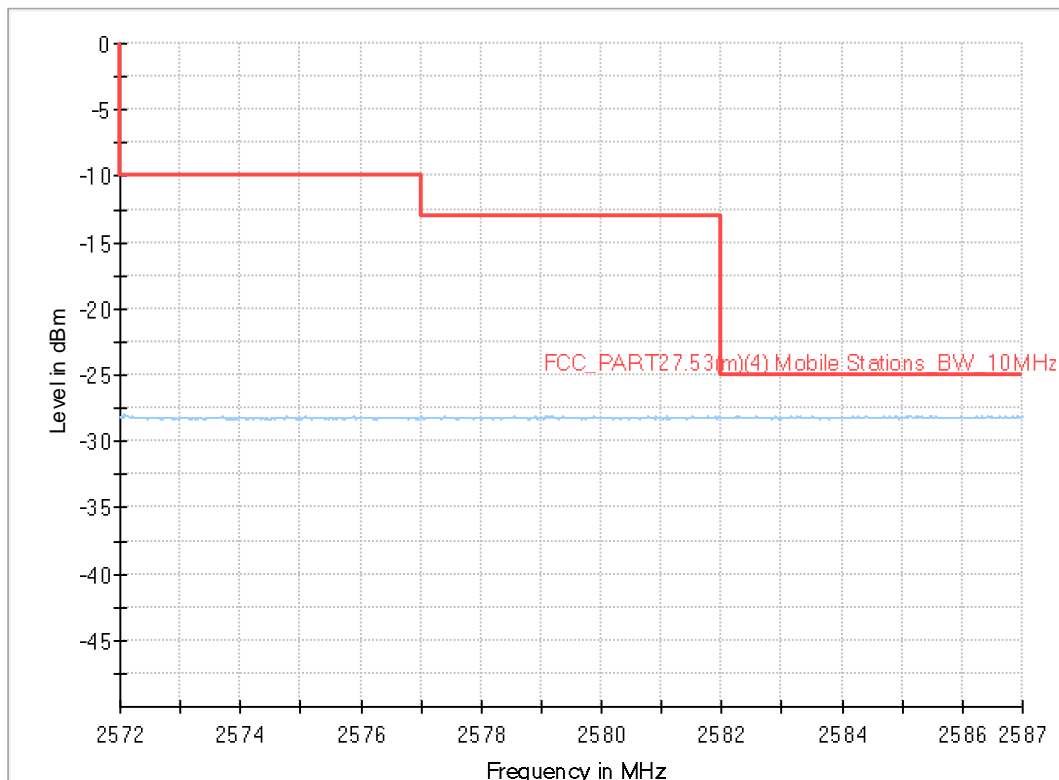
# 9.703\_Bandedge\_high\_LTE\_FDD\_B07\_CH\_high\_RB\_1\_high

## Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27.53(l)(4) / RSS-130 Mobile stations limits
Operating Mode:	LTE_FDD07  CH 21400  SC 1 SC start 0   QPSK
Environmental Conditions:	Humidity : 40%rH; Temperature: 20°C
Test SW Version:	EMC32 V10.60.20
Operator:	SSanthakum/LKnopp
Remarks:	EUT - laying/standing position
EUT Setup:	1
Verdict:	PassedComment:

## EUT Information

PMT number: 21-1-01033S04\_C01  
Full Spectrum



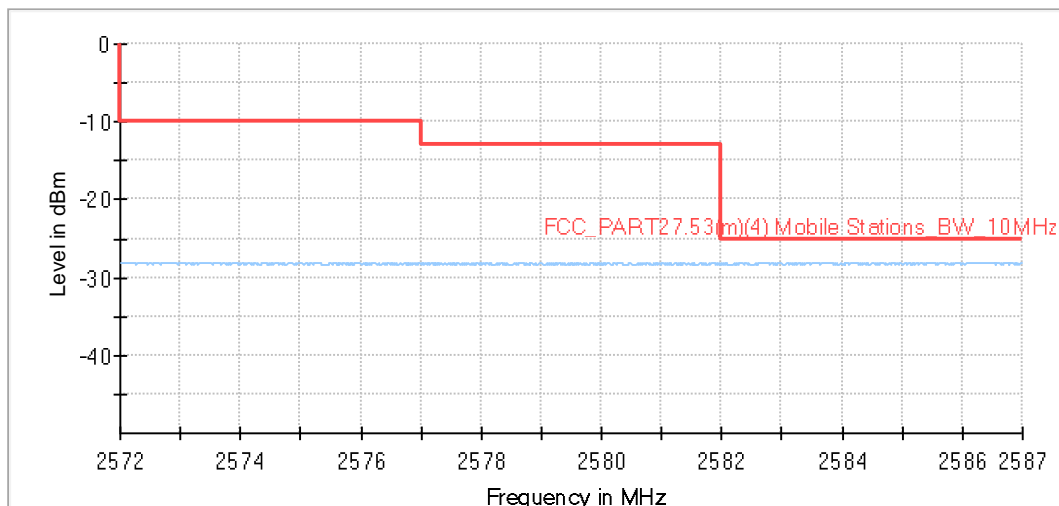
# 9.704\_Bandedge\_high\_LTE\_FDD\_B07\_CH\_high\_RB\_Full

## Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 7
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27.53(l)(4) / RSS-130 Mobile stations limits
Operating Mode:	LTE_FDD07  CH 21400  SC 1 SC start 0   QPSK
Environmental Conditions::	Humidity : 40%rH; Temperature: 20°C
Test SW Version:	EMC32 V10.60.20
Operator:	SSanthakum/LKnopp
Remarks:	EUT - laying/standing position
EUT Setup:	1
Verdict:	PassedComment:

## EUT Information

PMT number: 21-1-01033S04\_C01  
Full Spectrum



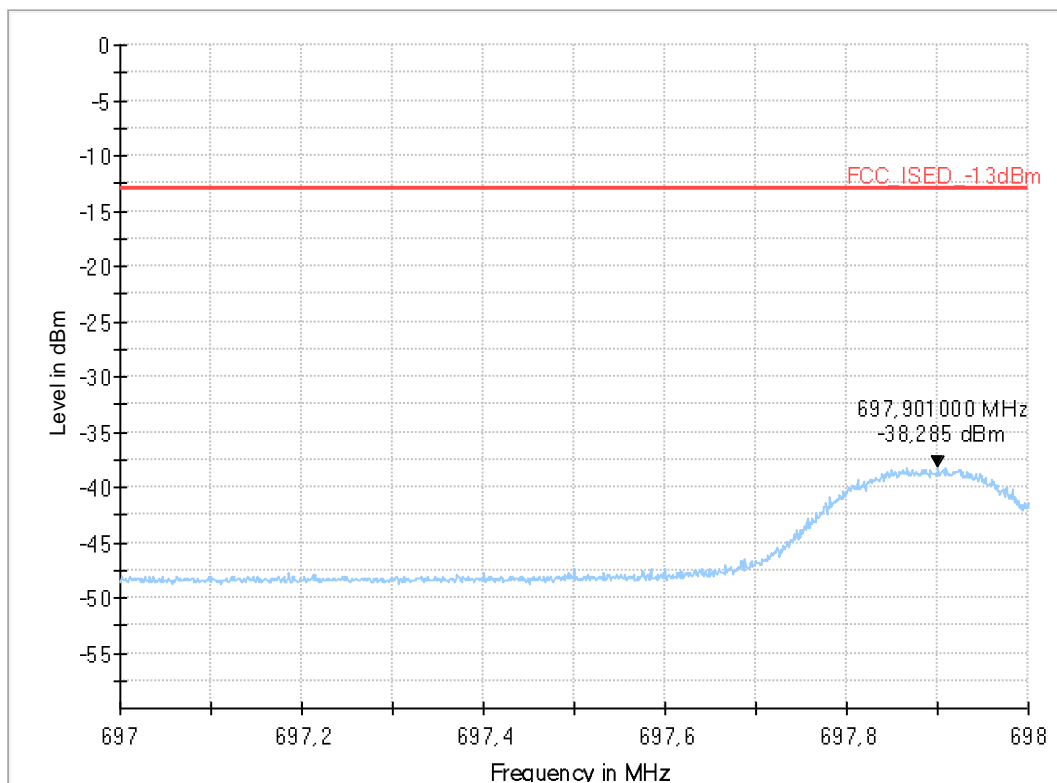
# 9.1201\_Bandedge\_low\_LTE\_FDD\_B12\_CH\_low\_RB\_1\_low

## Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 27
Operating Mode:	LTE_FDD12   BW=10MHz   CH_23060  RB:1 low QPSK
Environmental Conditions:	Humidity : 60%rH; Temperature: 20°C
Test SW Version:	EMC32 V10.60.20
Operator:	Aho
EUT Setup:	1
Verdict:	Passed

## EUT Information

PMT number:	21-1-01033S04_C01
	Full Spectrum



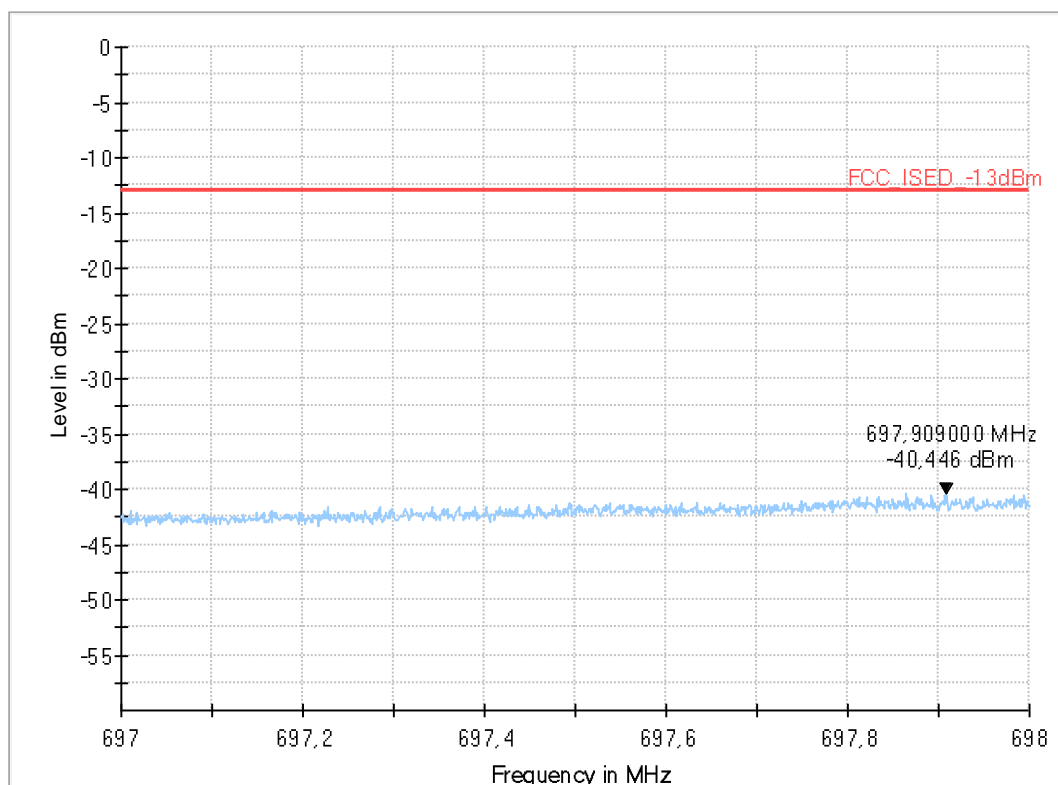
## 9.1202\_Bandedge\_low\_LTE\_FDD\_B12\_CH\_low\_RB\_Full

### Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 12
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 27
Operating Mode:	LTE_FDD12   BW=10MHz   CH_23060   RB:50QPSK
Environmental Conditions:	Humidity : 60%rH; Temperature: 20°C
Test SW Version:	EMC32 V10.60.20
Operator:	Aho
EUT Setup:	1
Verdict:	Passed

### EUT Information

PMT number:	21-1-01033S04_C01
	Full Spectrum



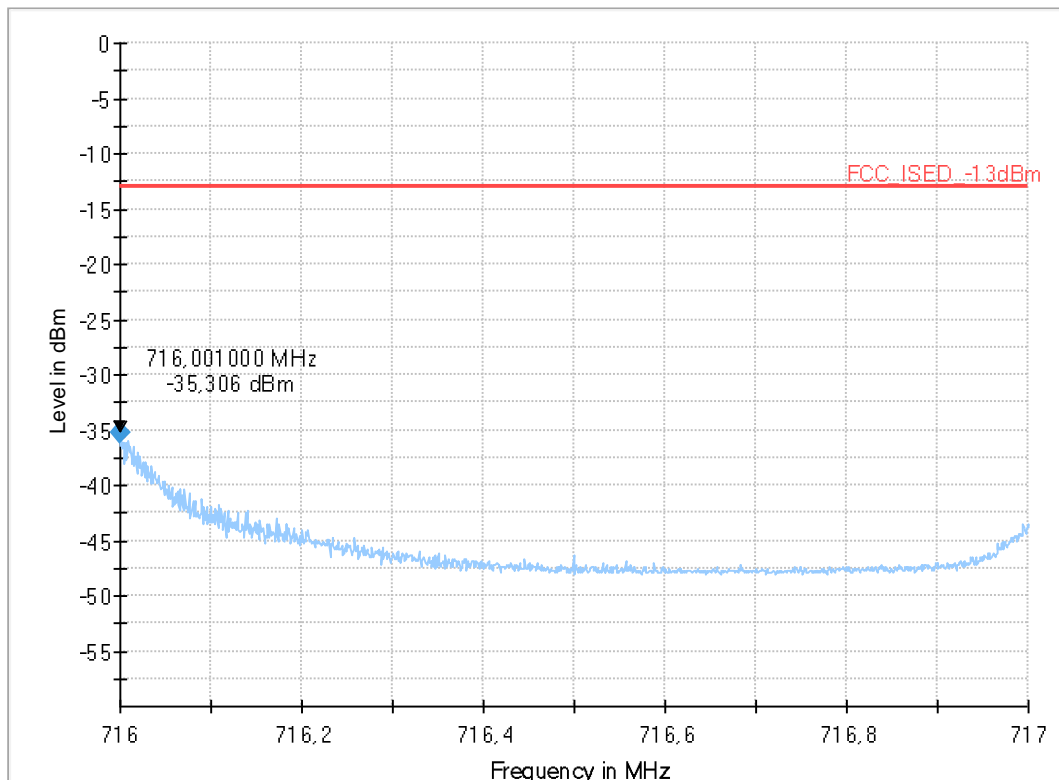
# 9.1203\_Bandedge\_high\_LTE\_FDD\_B12\_CH\_high\_RB\_1\_high

## Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 12  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_FDD12 | BW=10MHz | CH\_23130 | RB:1|high|QPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Test SW Version: EMC32 V10.60.20  
 Operator: Aho  
 EUT Setup: 1  
 Verdict: PassedComment:

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
716.001000	-35.31	-13.00	22.31	700.0	100.000	V	351.0	0.0	-77

# 9.1204\_Bandedge\_high\_LTE\_FDD\_B12\_CH\_high\_RB\_Full

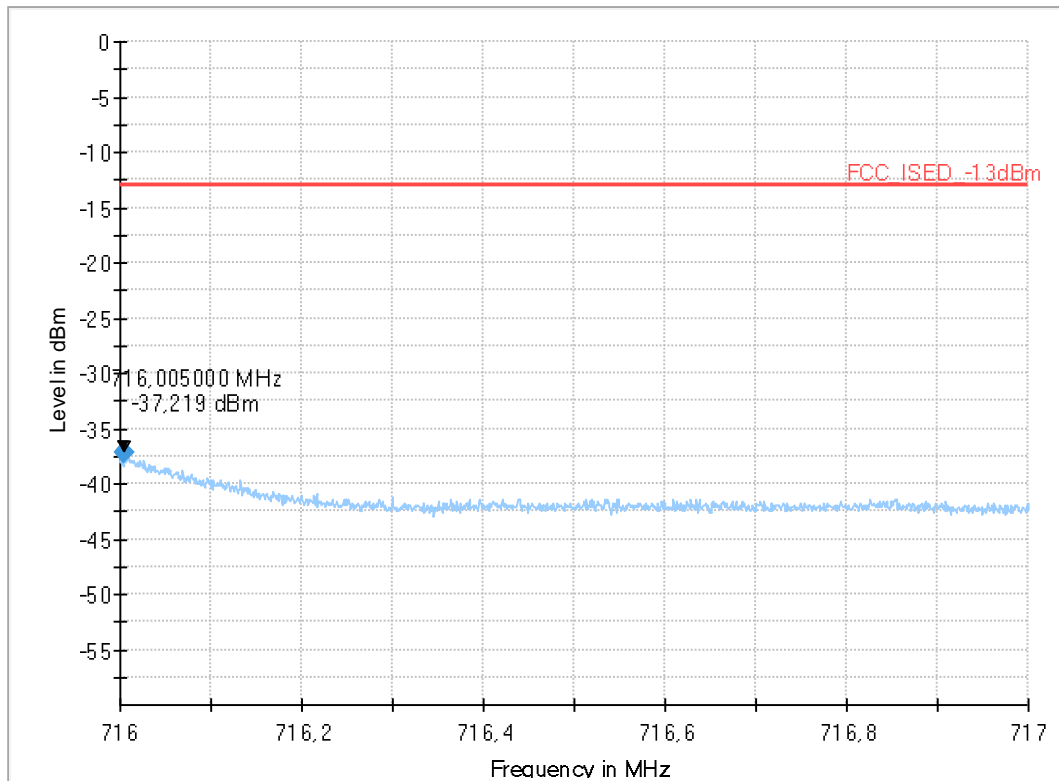
## Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 12  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_FDD12 | BW=10MHz | CH\_23130 | RB:50 IQPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Test SW Version: EMC32 V10.60.20  
 Operator: Aho  
 EUT Setup: 1  
 Verdict: Passed

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Config:

Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
716.005000	-37.22	-13.00	24.22	700.0	100.000	V	343.0	0.0	-77

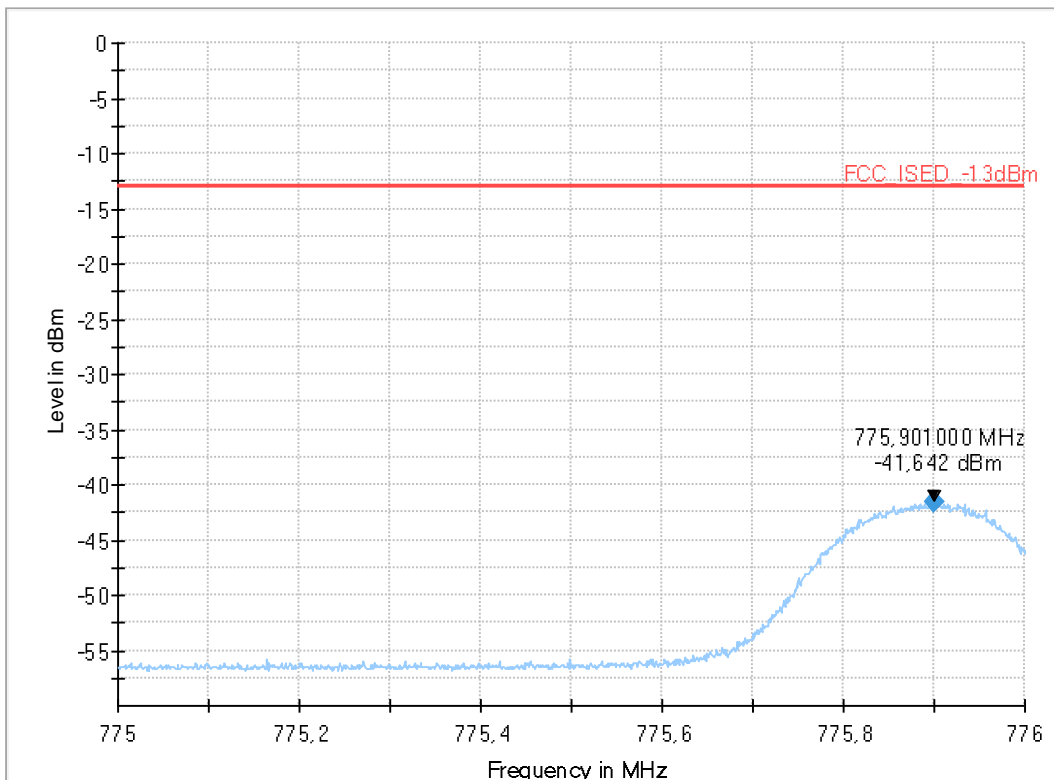
# 9.1301\_Bandedge\_low\_LTE\_FDD\_B13\_CH\_low\_RB\_1\_low

## Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 13  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_FDD13 | BW=10MHz | CH\_23230 |RB:1|low|QPSK  
 Environmental Conditions: Humidity: 64% rH; Temperature: 20°C  
 Test SW Version: EMC32 V10.60.20  
 Operator: Aho  
 Remarks: EUT - laying/standing position  
 EUT Setup: 1  
 Verdict: Passed

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Manufacturer: Eurofins Product Service GmbH  
 Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
775.901000	-41.64	-13.00	28.64	700.0	100.000	V	57.0	0.0	-77



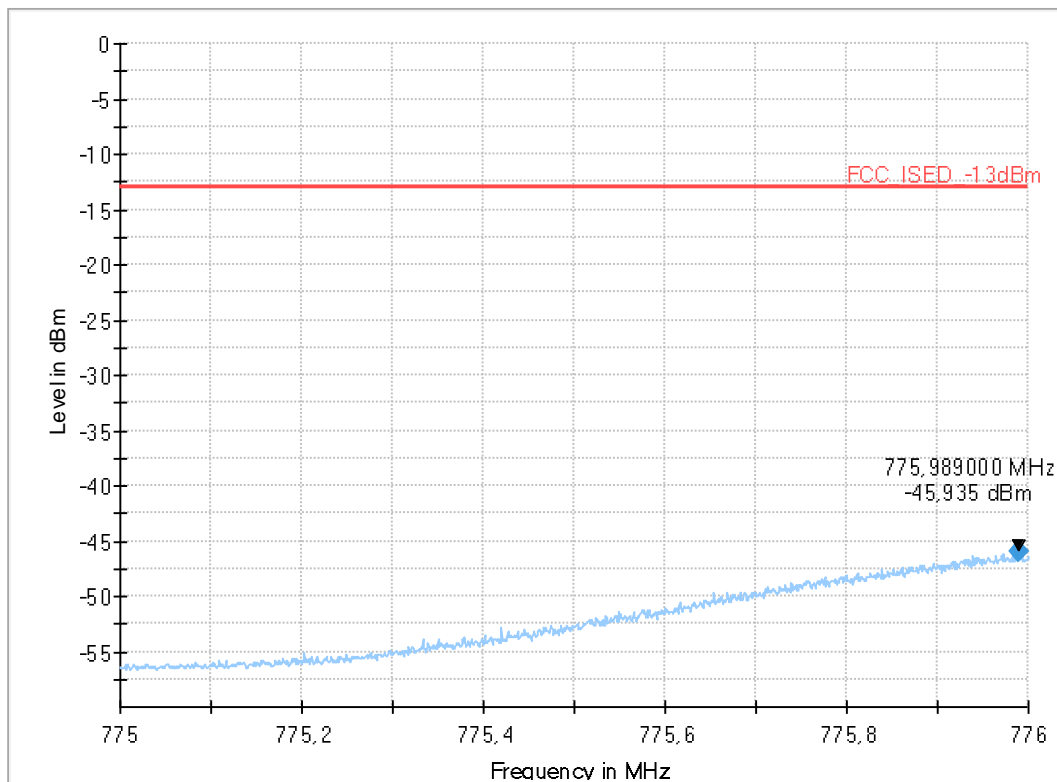
## 9.1302\_Bandedge\_low\_LTE\_FDD\_B13\_CH\_low\_RB\_full

### Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 13
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 27
Operating Mode:	LTE_FDD13   BW=10MHz   CH_23230  RB:50 QPSK
Environmental Conditions::	Humidity : 60%rH; Temperature: 20°C
Test SW Version:	EMC32 V10.60.20
Operator:	Aho
Remarks:	EUT - laying/standing position
EUT Setup:	1
Verdict:	Passed

### EUT Information

PMT number: 21-1-01033S04\_C01  
Full Spectrum



### Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
775.989000	-45.94	-13.00	32.94	700.0	100.000	V	58.0	0.0	-77

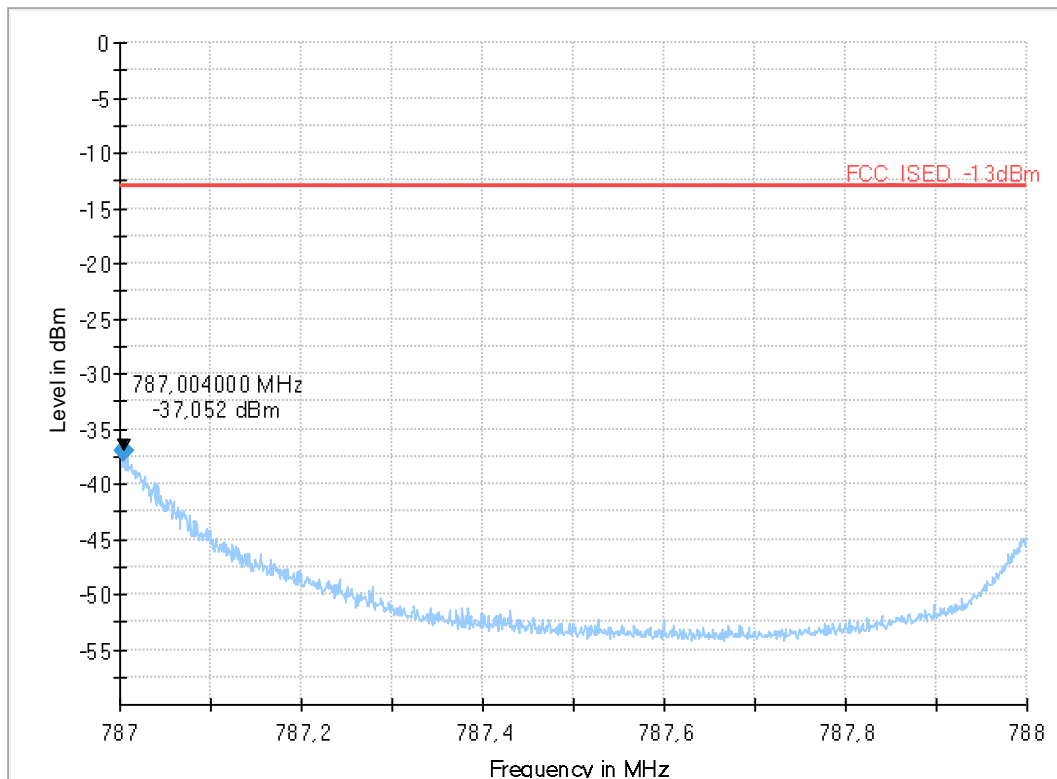
# 9.1303\_Bandedge\_high\_LTE\_FDD\_B13\_CH\_high\_RB\_1\_high

## Common Information

Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 13  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_FDD13 | BW=10MHz | CH\_23230 |RB:1|high|QPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Test SW Version: EMC32 V10.60.20  
 Operator: Aho  
 Remarks: EUT - laying/standing position  
 EUT Setup: 1  
 Verdict: Passed

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
787.004000	-37.05	-13.00	24.05	700.0	100.000	V	64.0	0.0	-77

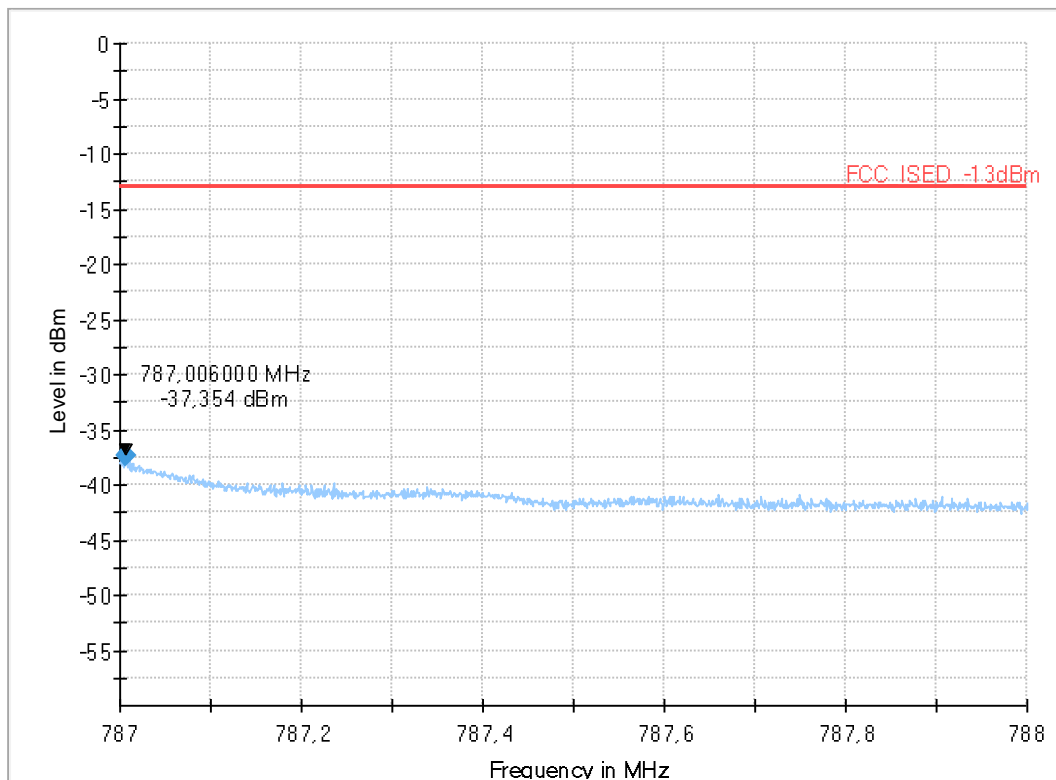
# 9.1304\_Bandedge\_high\_LTE\_FDD\_B13\_CH\_high\_RB\_Full

## Common Information

Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 13  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_FDD13 | BW=10MHz | CH\_23230 |RB:50|QPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Test SW Version: EMC32 V10.60.20  
 Operator: Aho  
 Remarks: EUT - laying/standing position  
 EUT Setup: 1  
 Verdict: Passed

## EUT Information

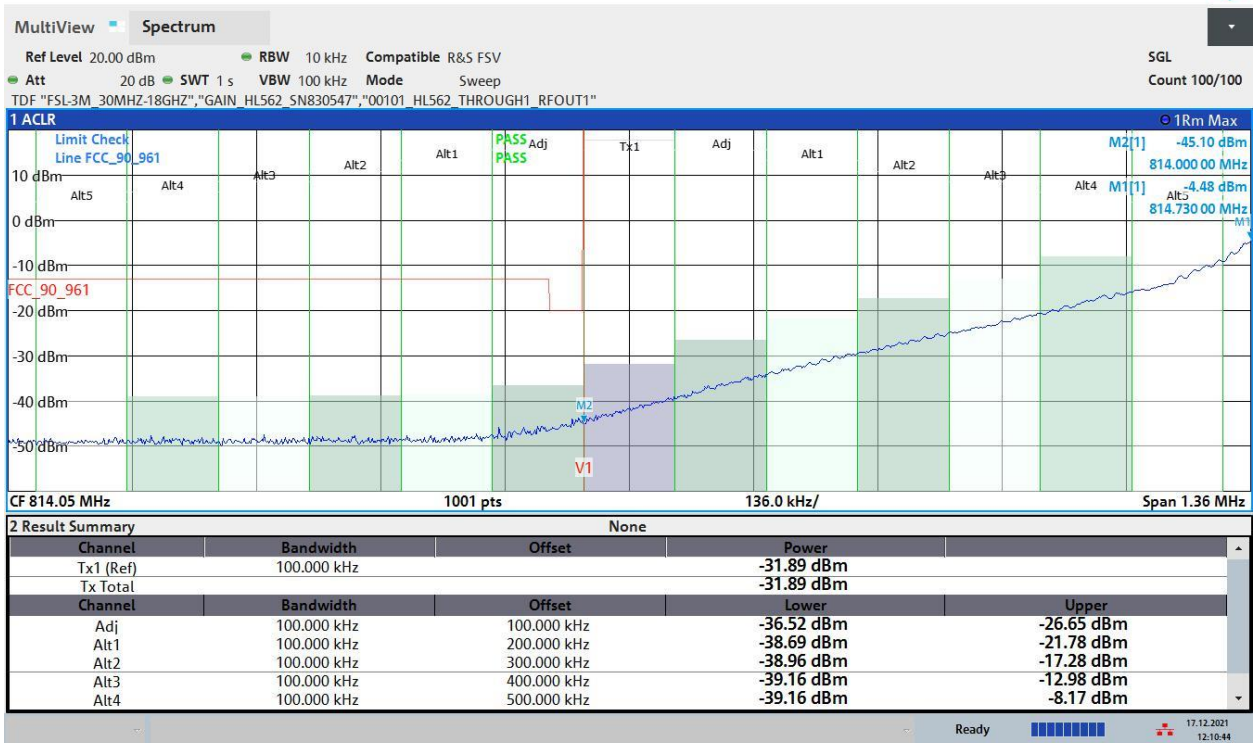
PMT number: 21-1-01033S04\_C01  
 Full Spectrum



## Final Result

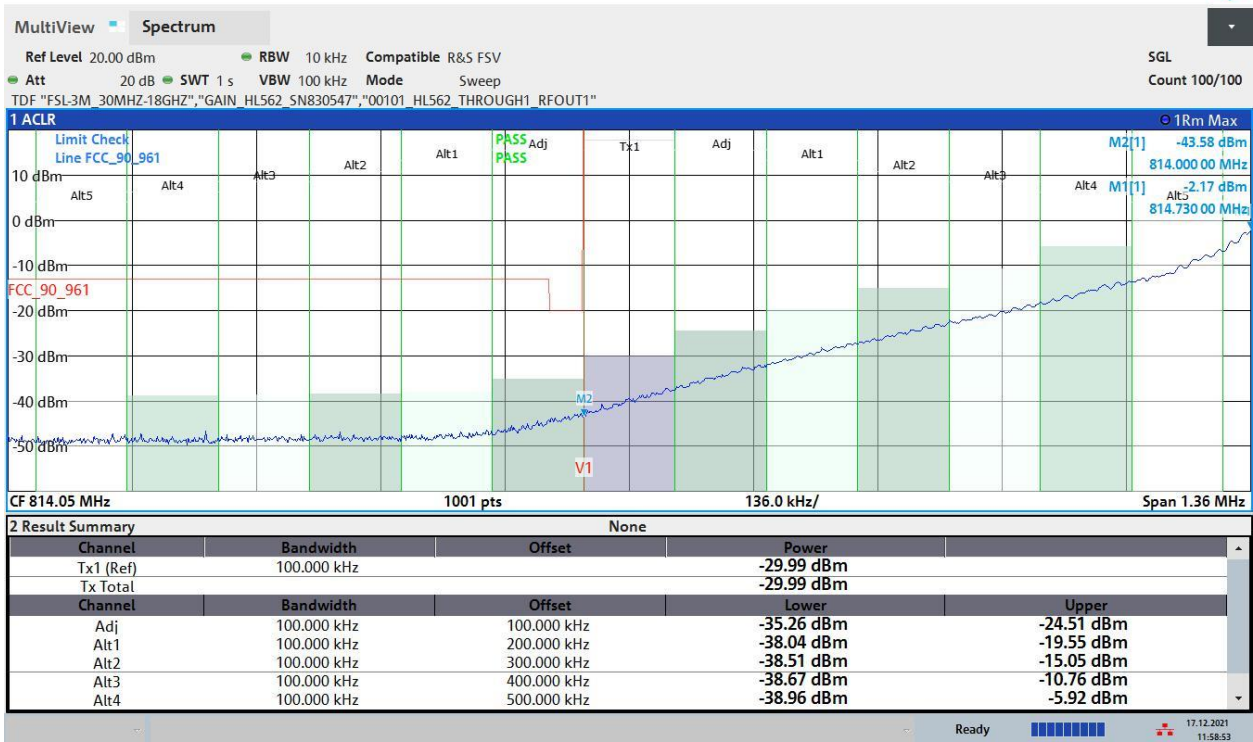
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
787.006000	-37.35	-13.00	24.35	700.0	100.000	V	60.0	0.0	-77

9.2601a\_Bandedge\_low\_LTE\_FDD\_B26\_CH\_low\_1RB\_low\_AntH



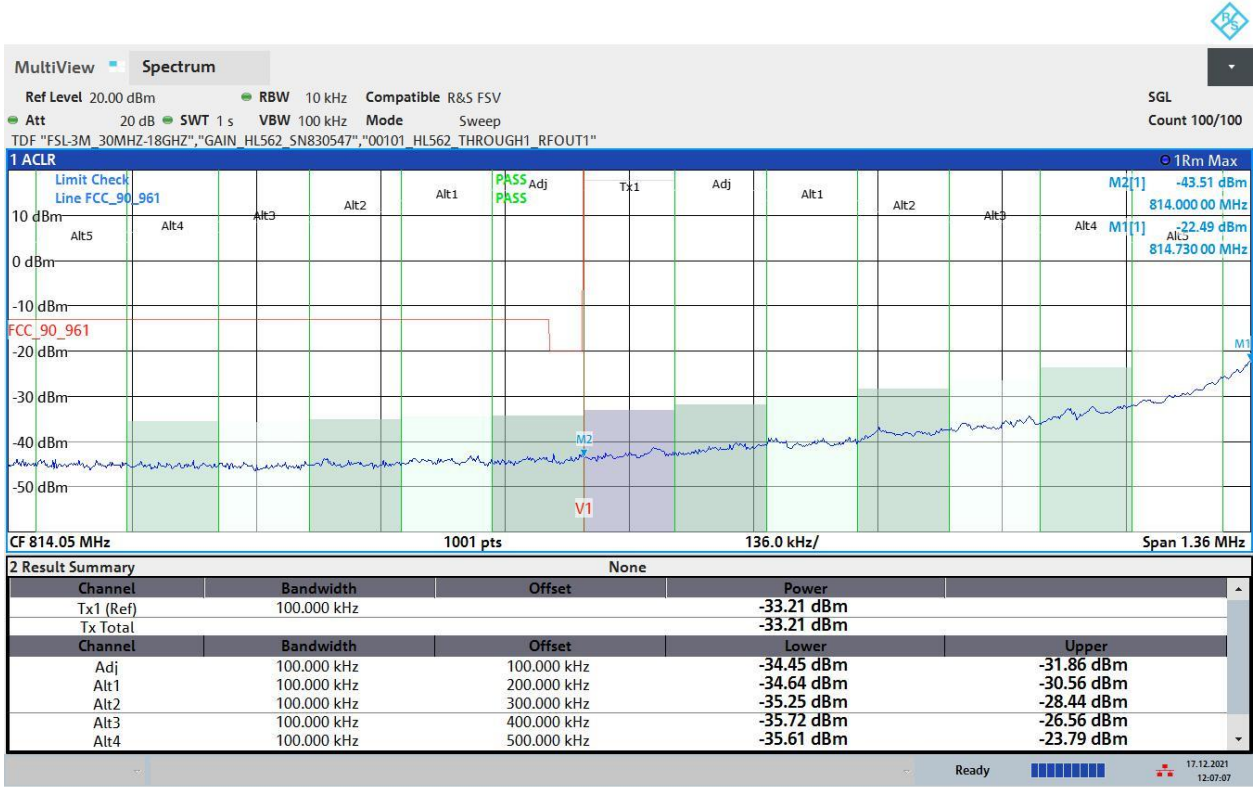
12:10:44 17.12.2021

9.2601b\_Bandedge\_low\_LTE\_FDD\_B26\_CH\_low\_1RB\_low\_AntV



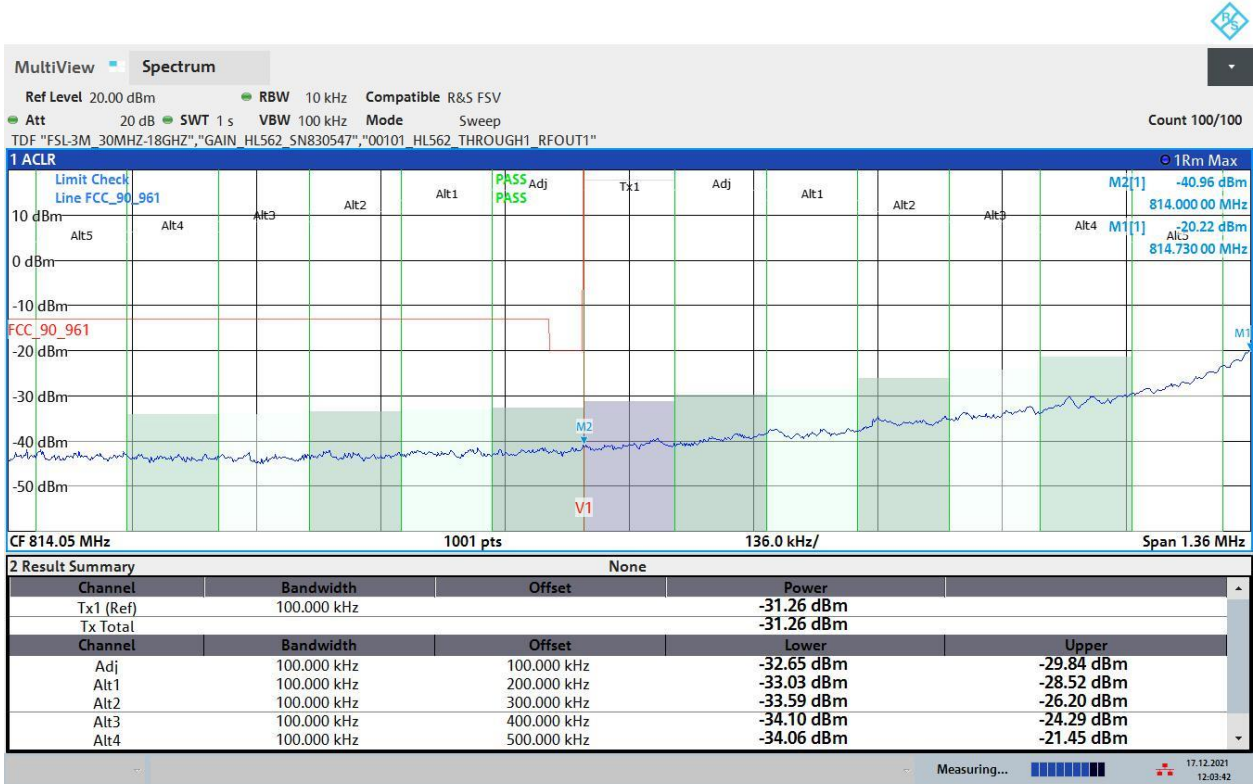
11:58:53 17.12.2021

9.2602a\_Bandedge\_low\_LTE\_FDD\_B26\_CH\_low\_RB\_full\_AntH



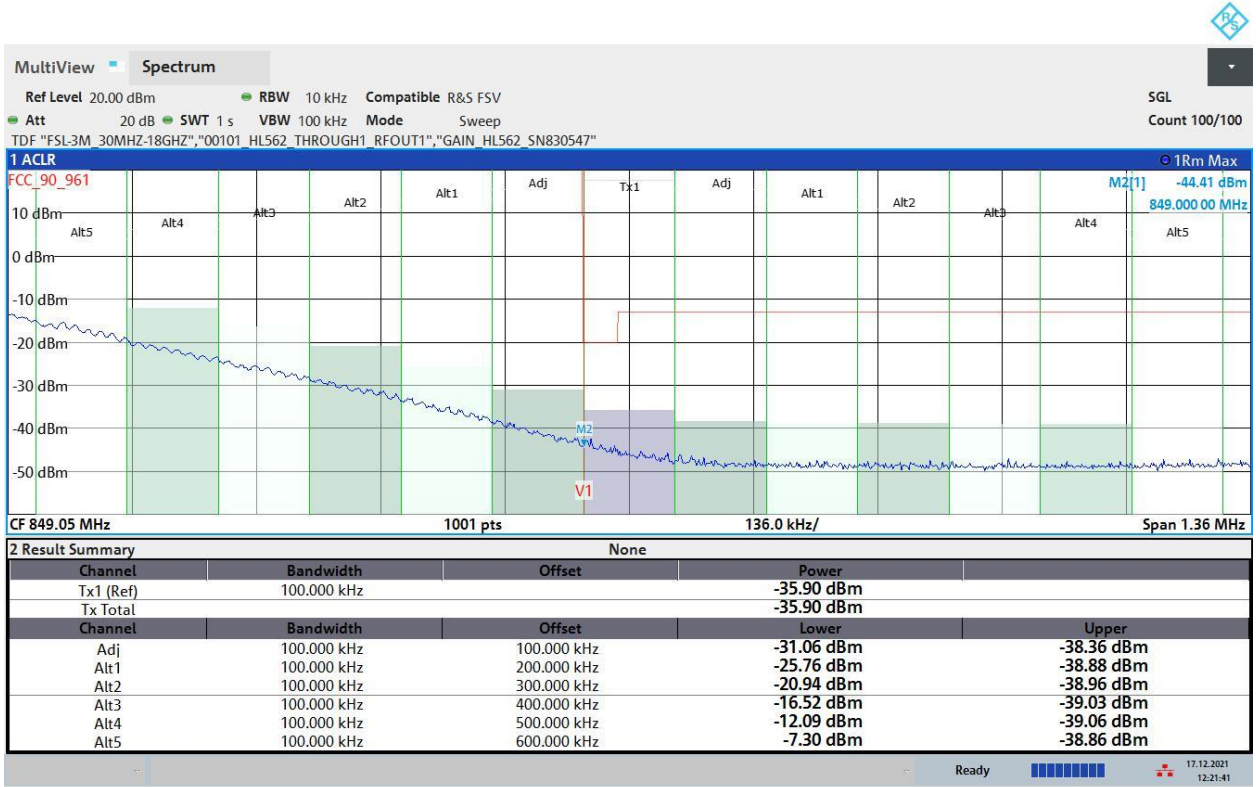
12:07:07 17.12.2021

9.2602b\_Bandedge\_low\_LTE\_FDD\_B26\_CH\_low\_RB\_full\_AntV



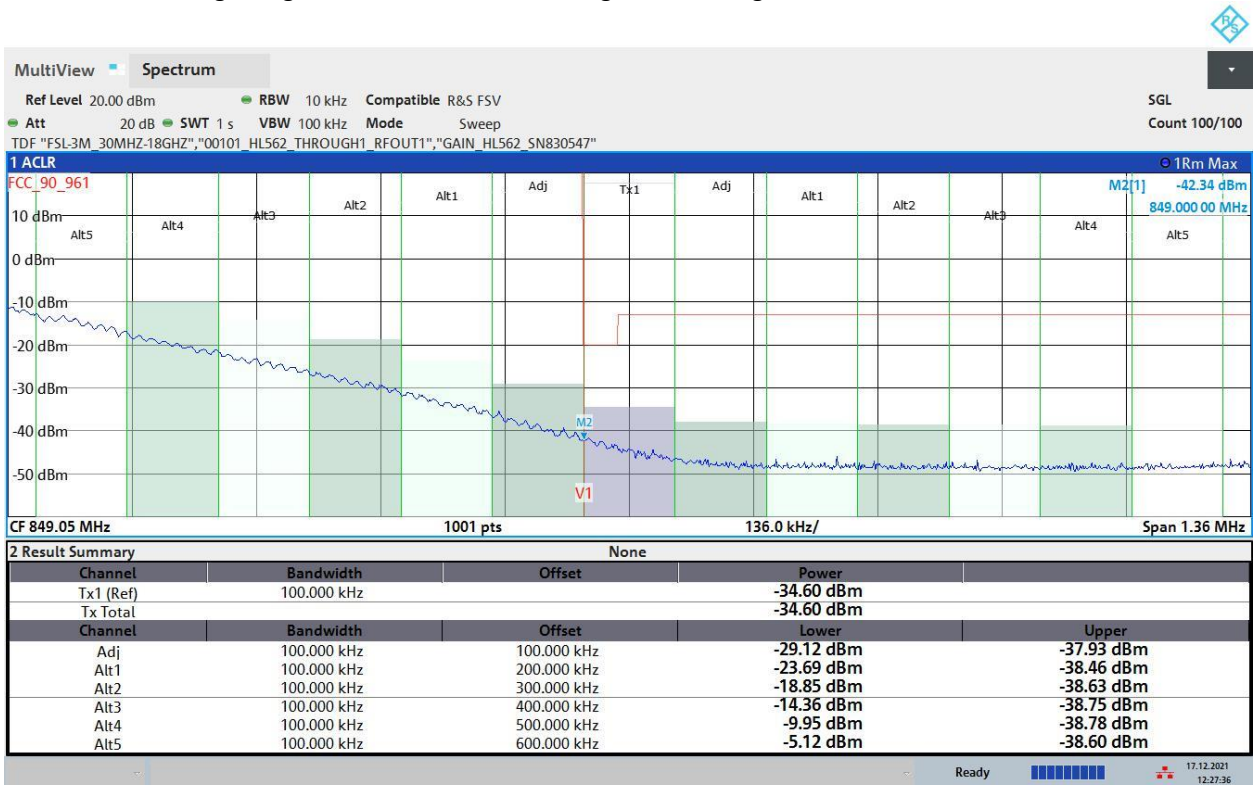
12:03:42 17.12.2021

9.2603a\_Bandedge\_high\_LTE\_FDD\_B26\_CH\_high\_1\_RB\_high\_AntH



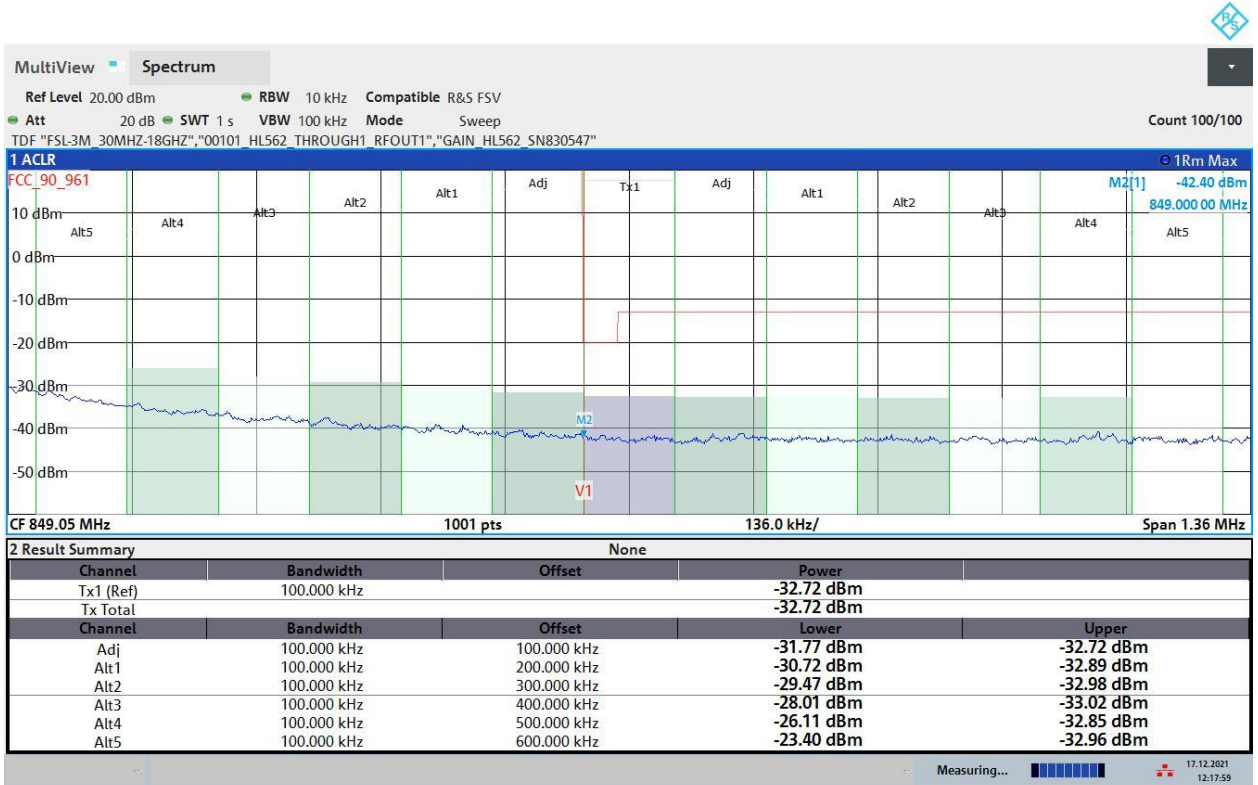
12:21:41 17.12.2021

9.2603b\_Bandedge\_high\_LTE\_FDD\_B26\_CH\_high\_1\_RB\_high\_AntV



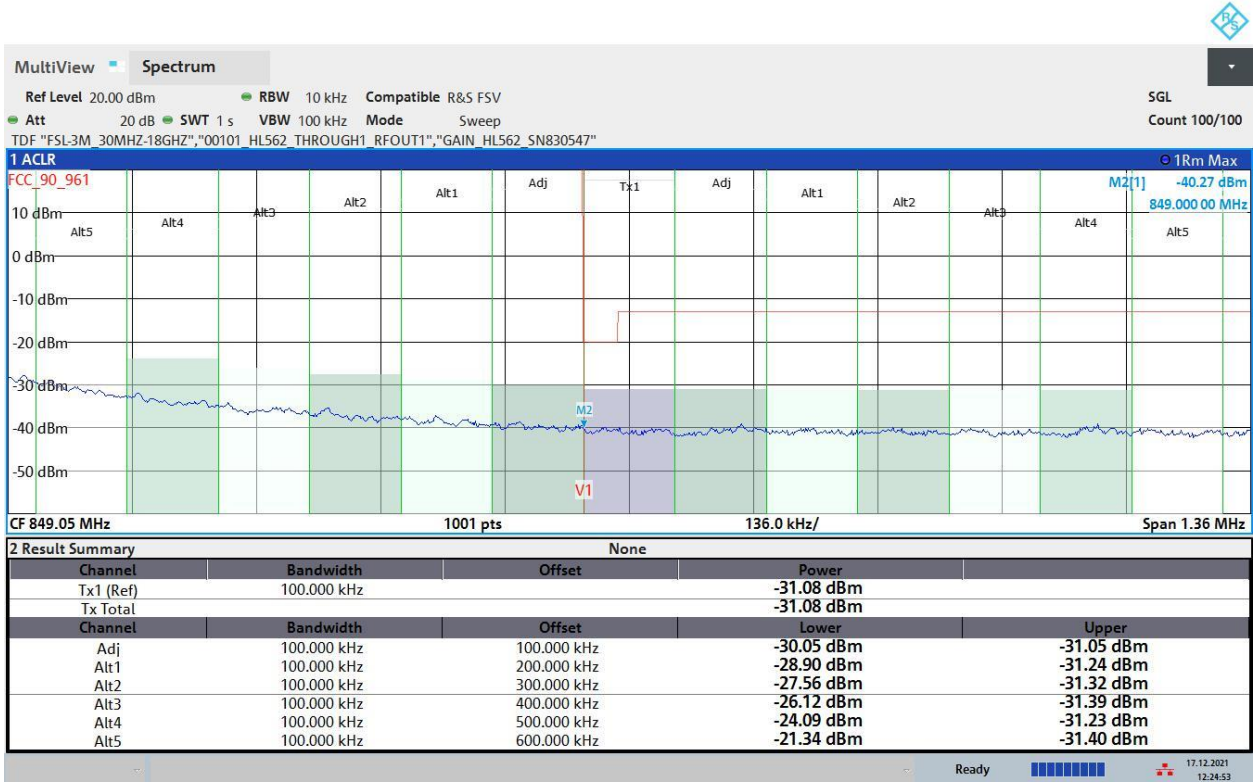
12:27:36 17.12.2021

9.2604a\_Bandedge\_high\_LTE\_FDD\_B26\_CH\_high\_RB\_Full\_AntH



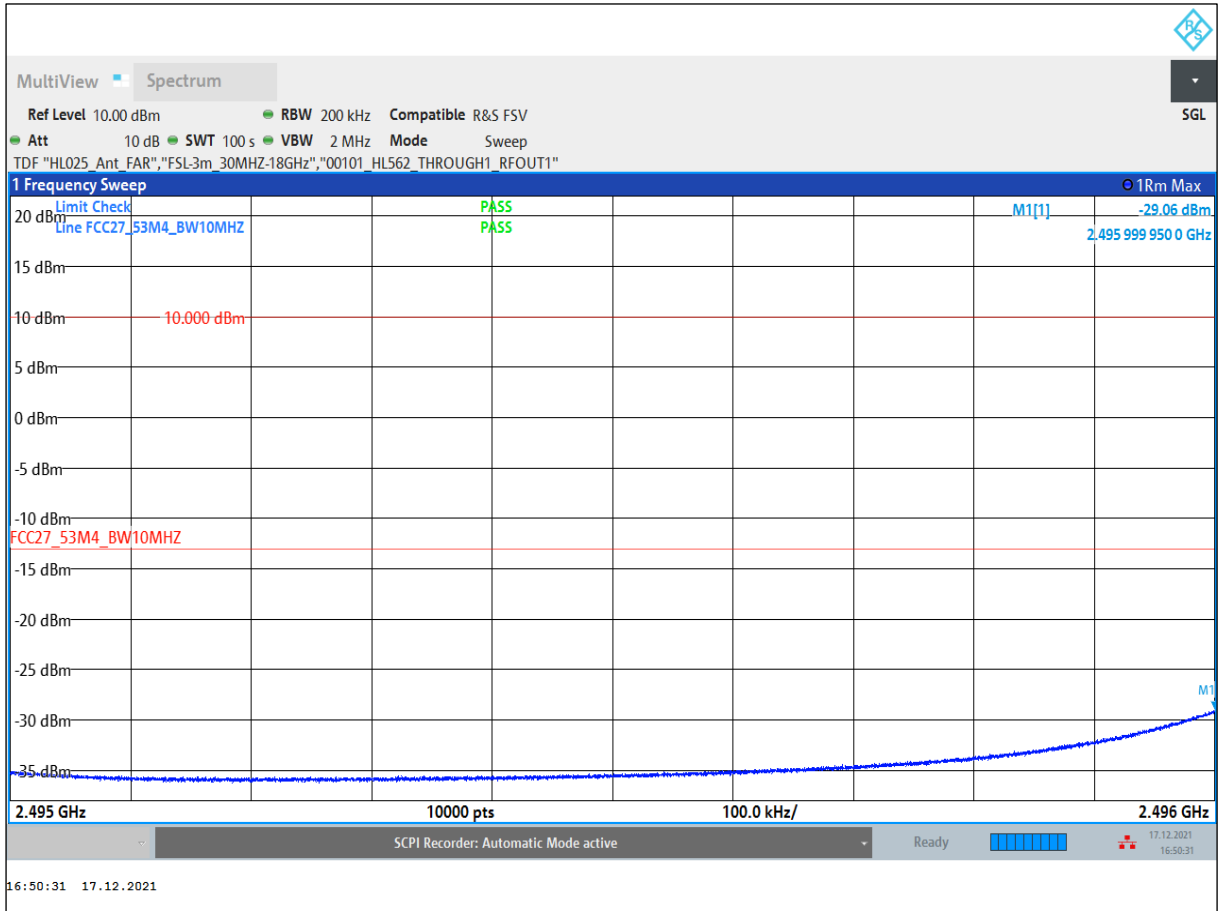
12:17:59 17.12.2021

9.2604b\_Bandedge\_high\_LTE\_FDD\_B26\_CH\_high\_RB\_Full\_AntV



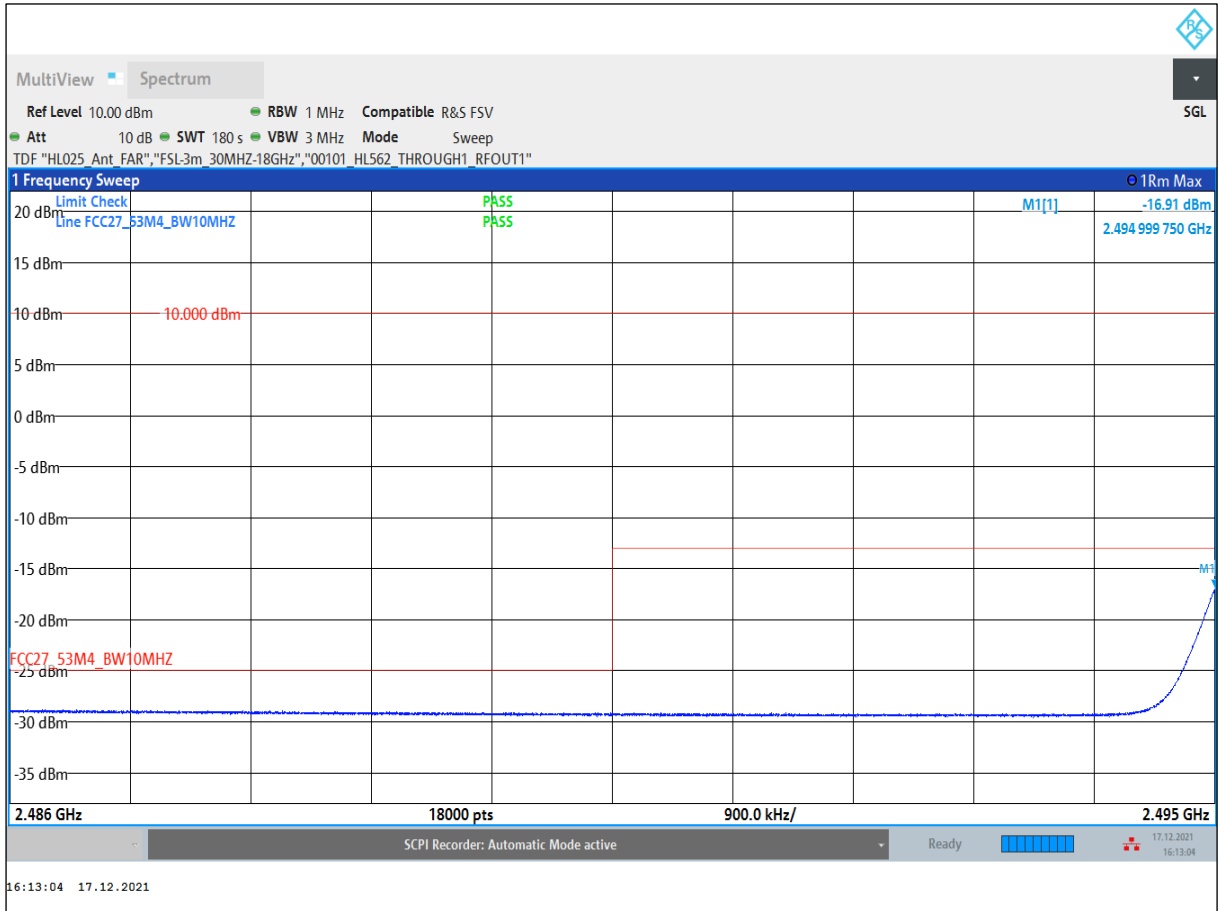
12:24:53 17.12.2021

### D07\_9\_4101a\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_1\_low\_Ant\_H

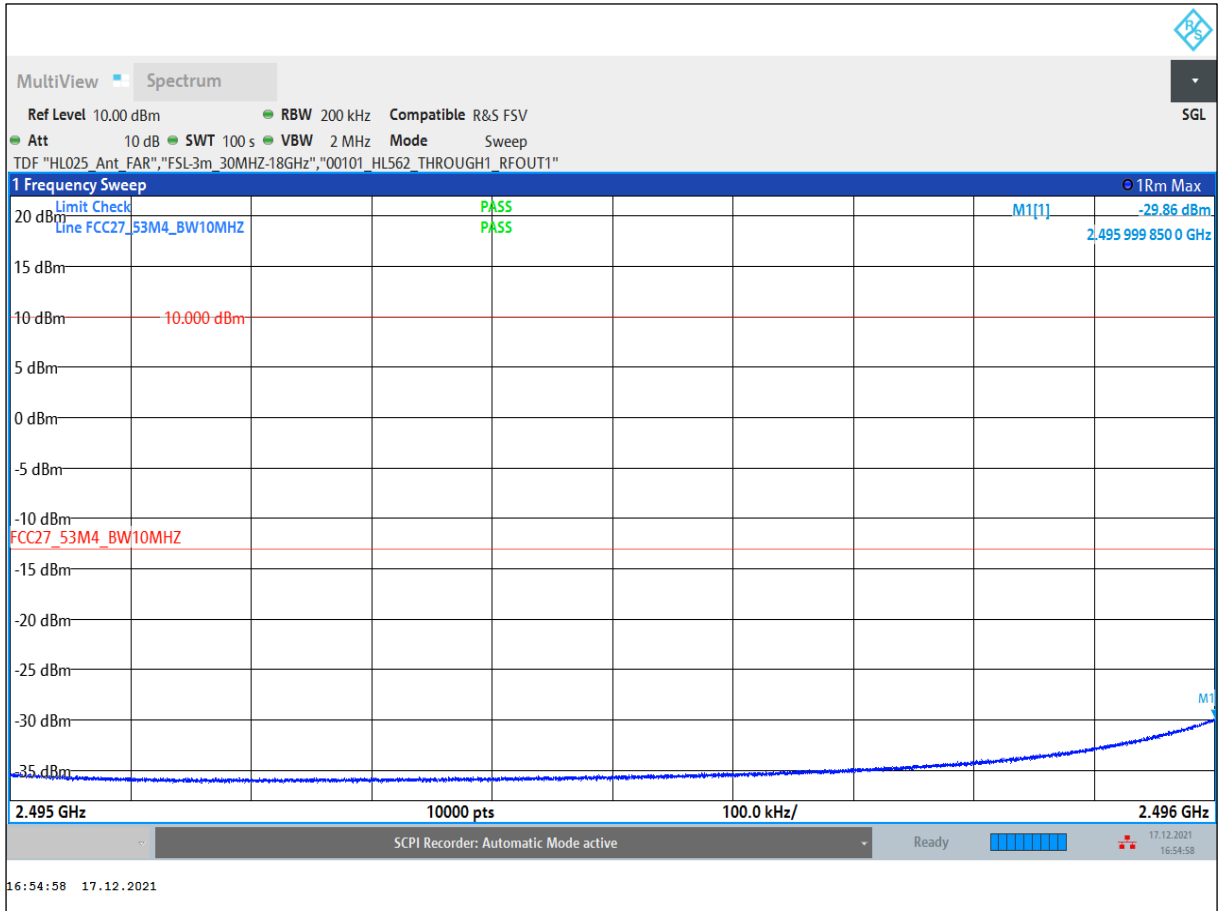




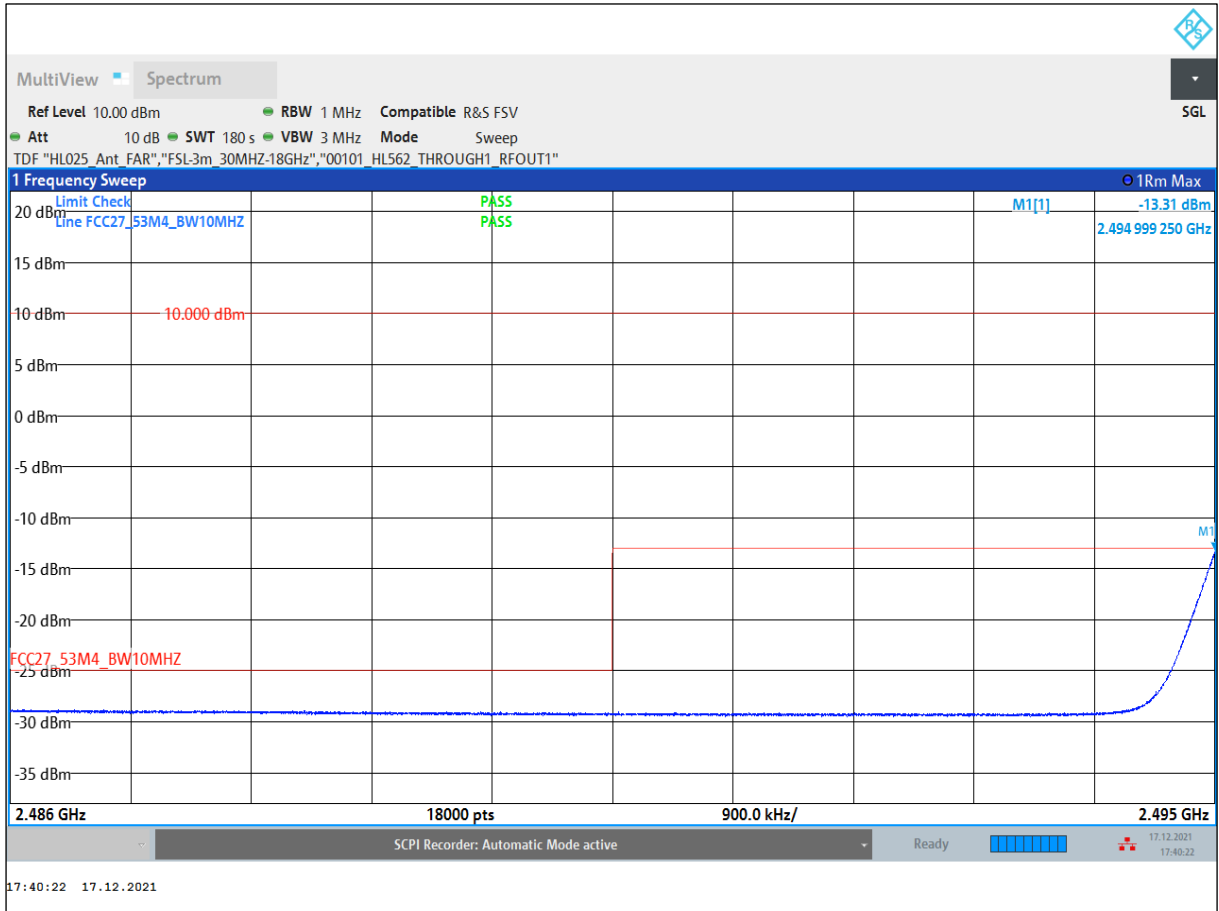
D07\_9\_4101b\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_1\_low\_Ant\_V



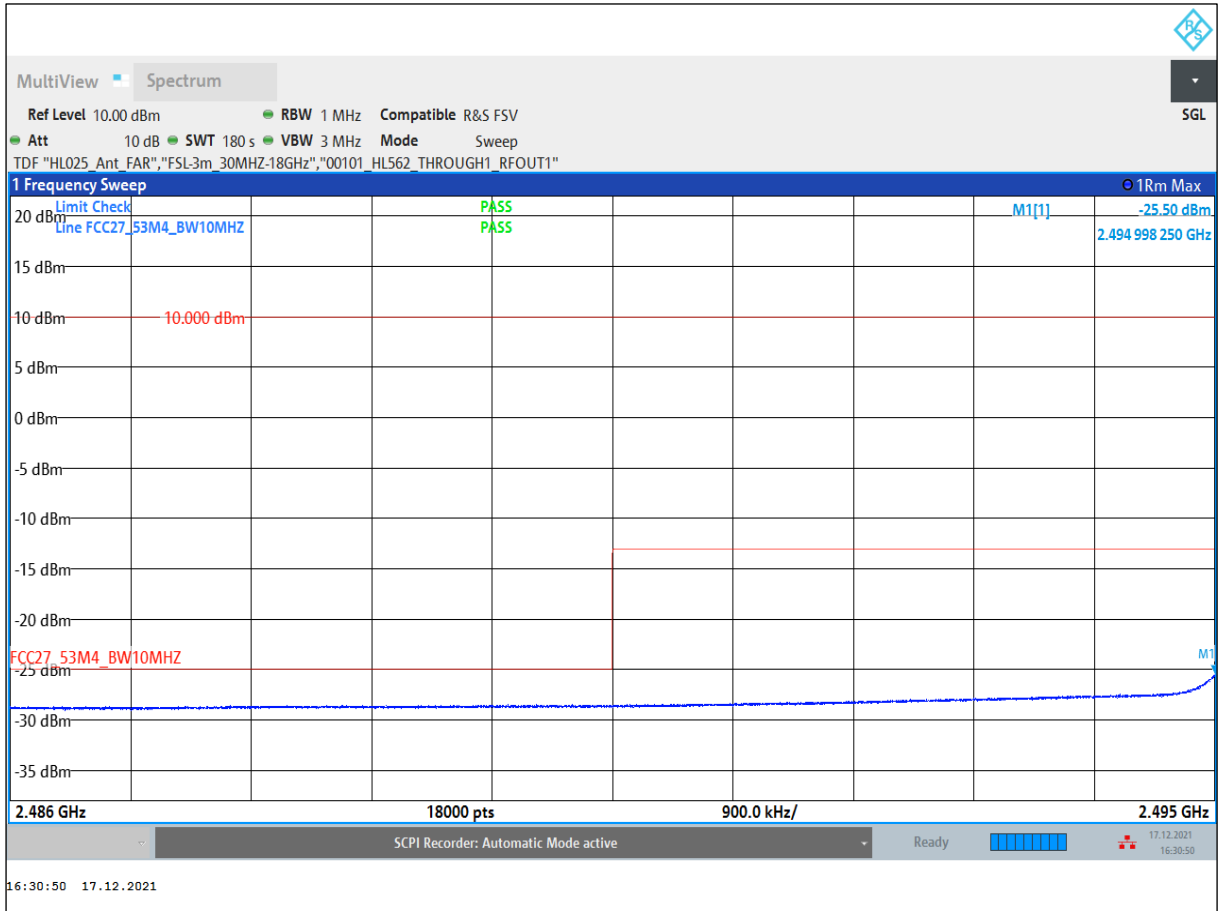
### D07\_9\_4101c\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_1\_low\_Ant\_V



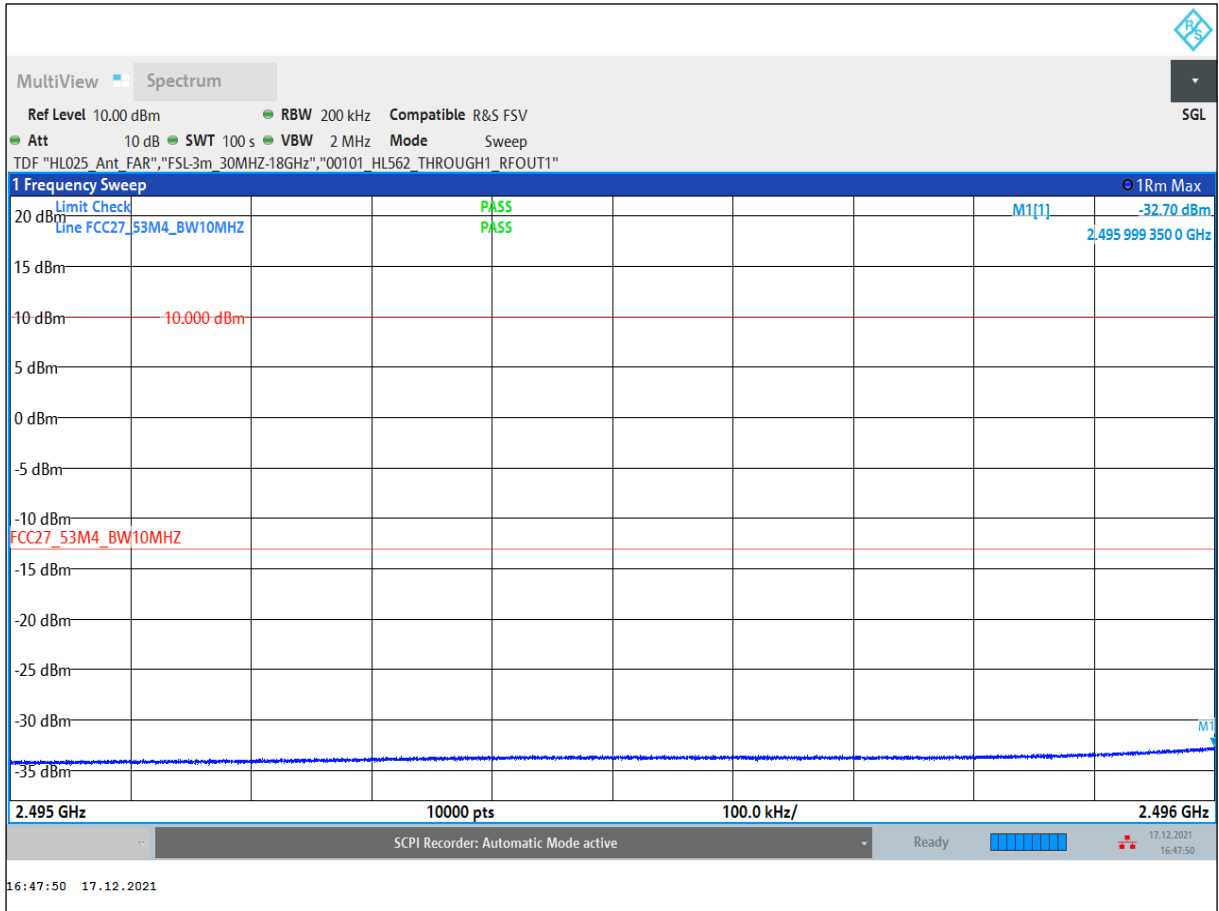
D07\_9\_4101d\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_1\_low\_Anth



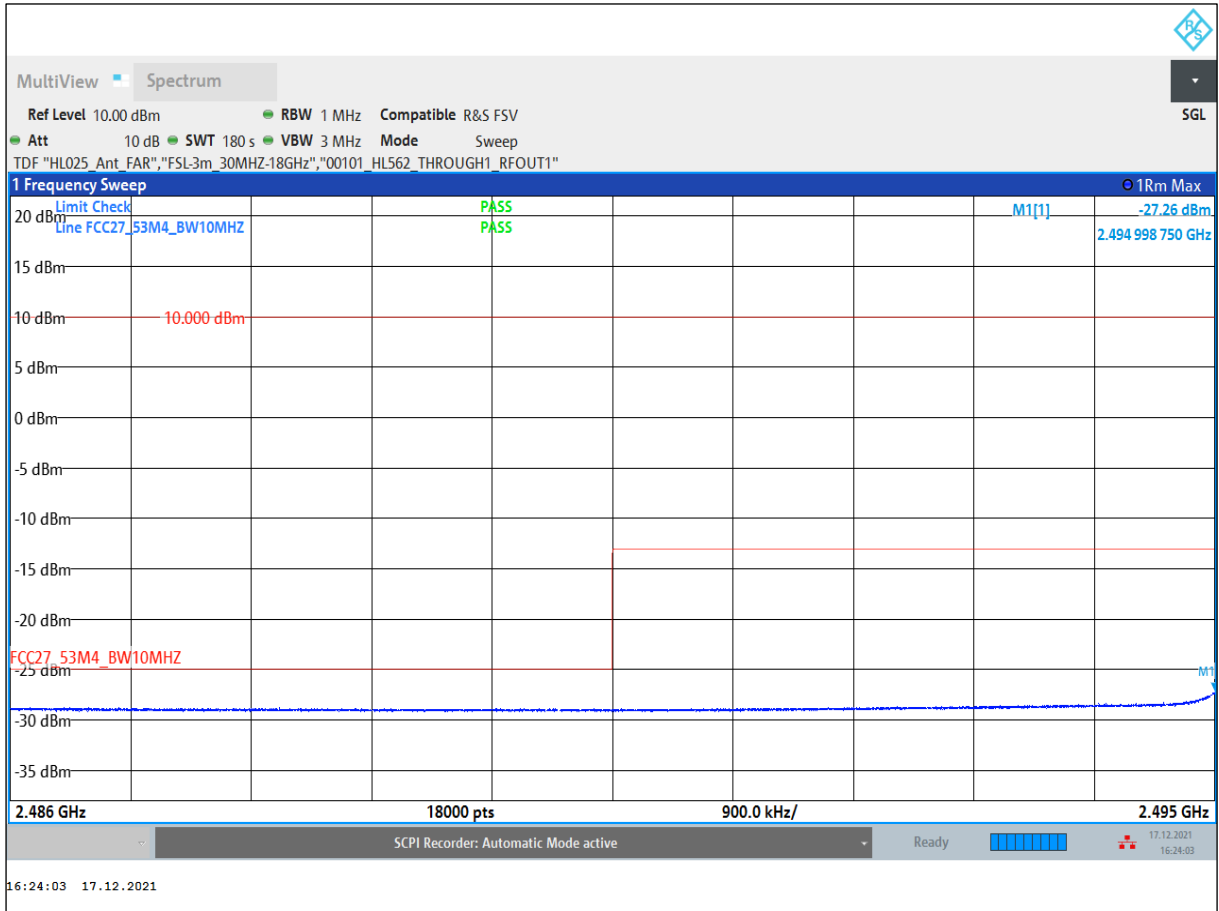
D07\_9\_4102\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_Full\_Ant\_H



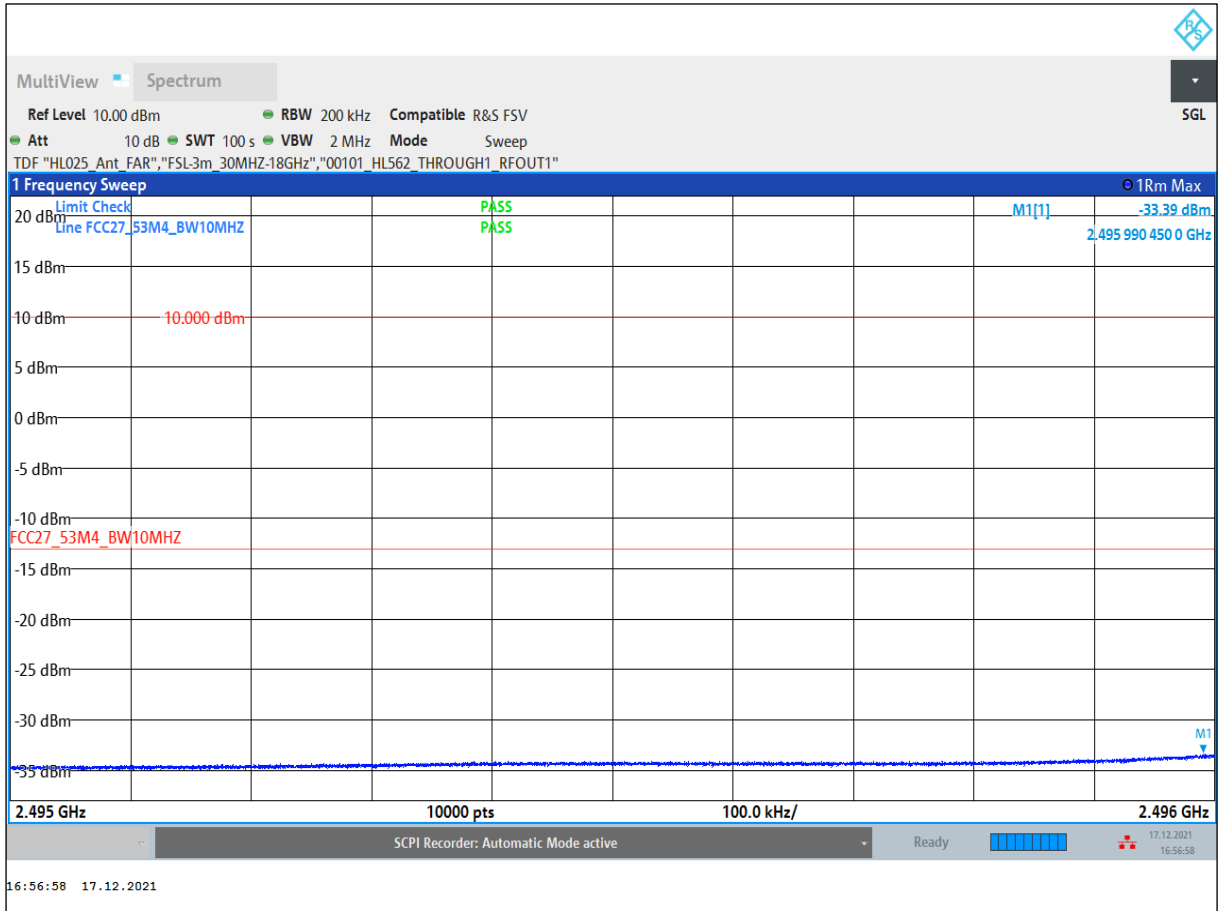
### D07\_\_9\_4102b\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_Full\_Ant\_H



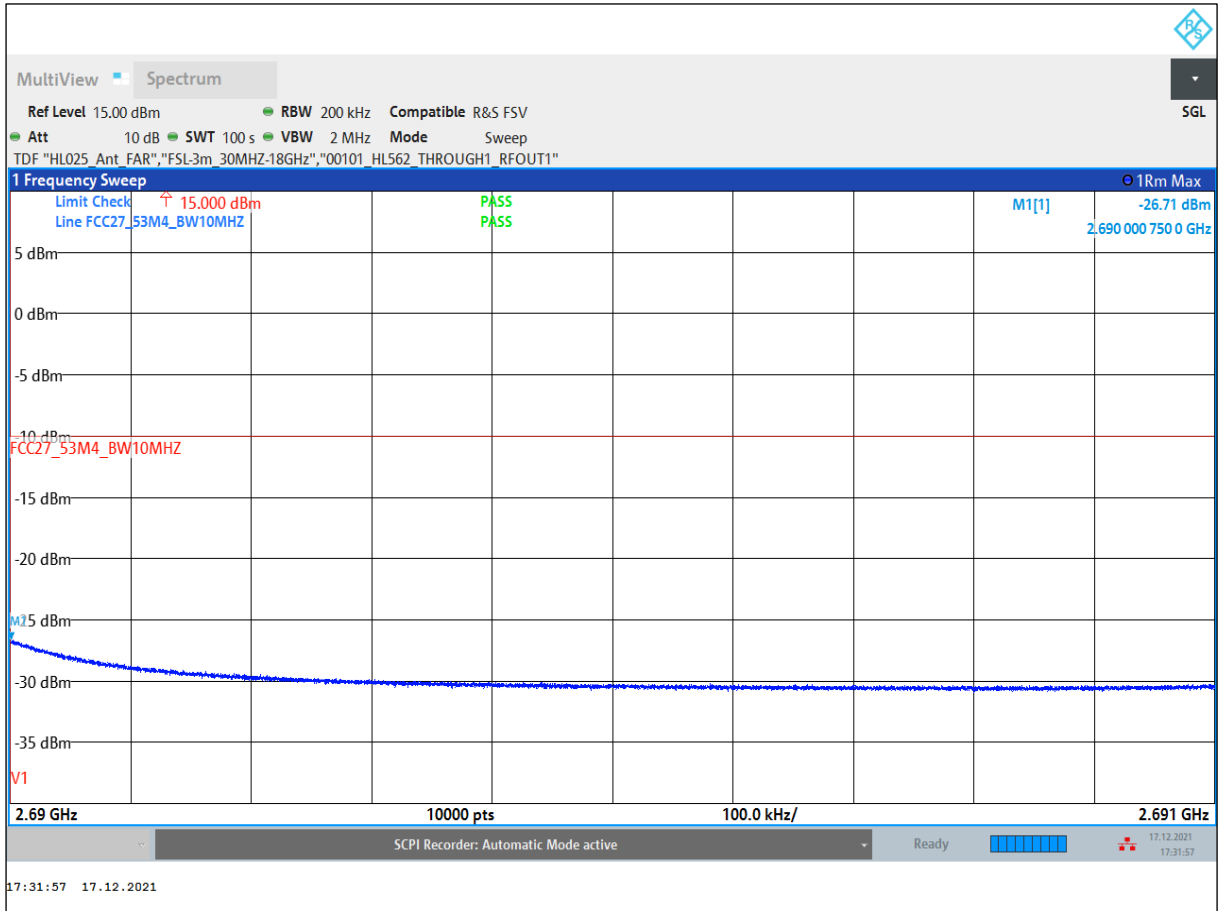
D07\_\_9\_4102c\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_Full\_Ant\_V



### D07\_\_9\_4102d\_Bandedge\_low\_LTE\_TDD\_B41\_CH\_low\_RB\_Full\_Ant\_V

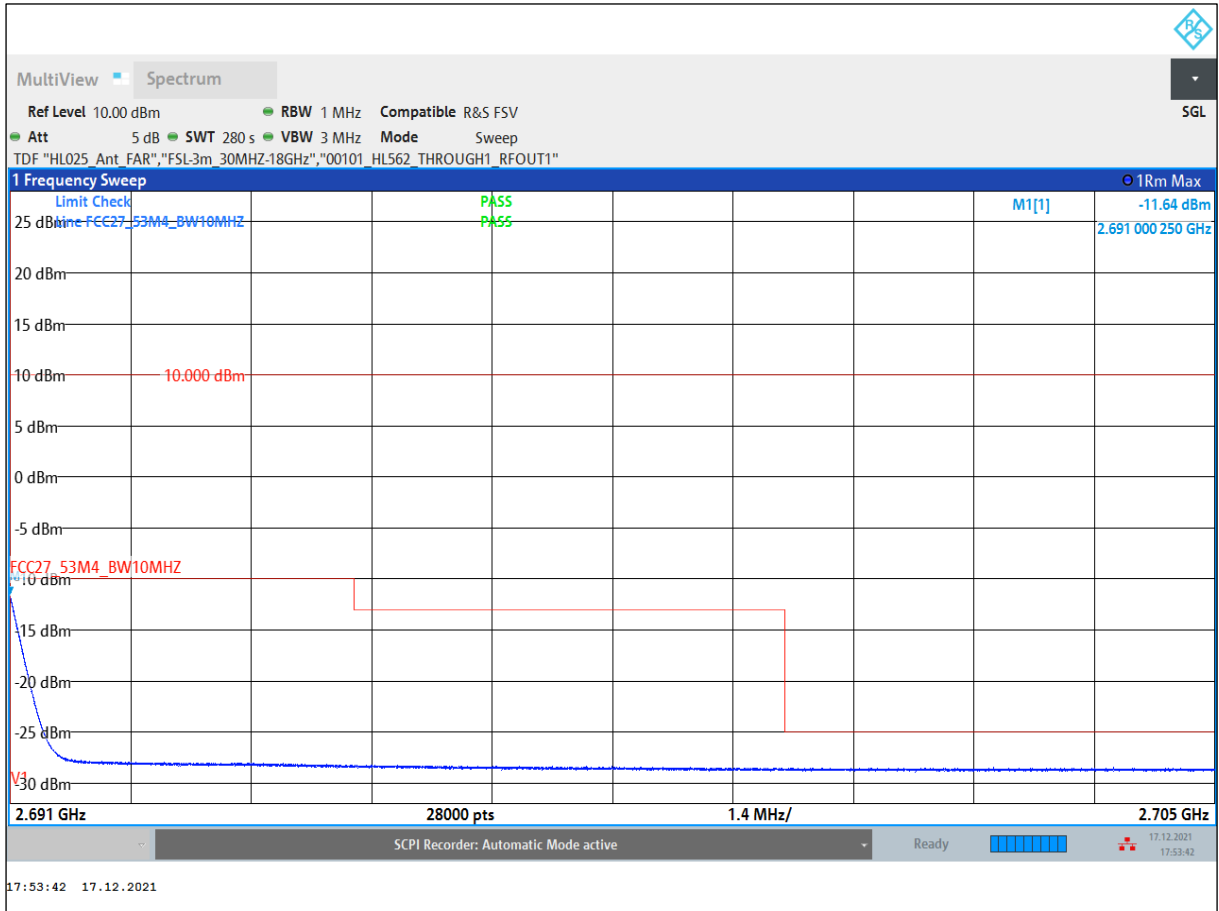


D07\_\_9\_4103a\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_1\_high\_AnthH

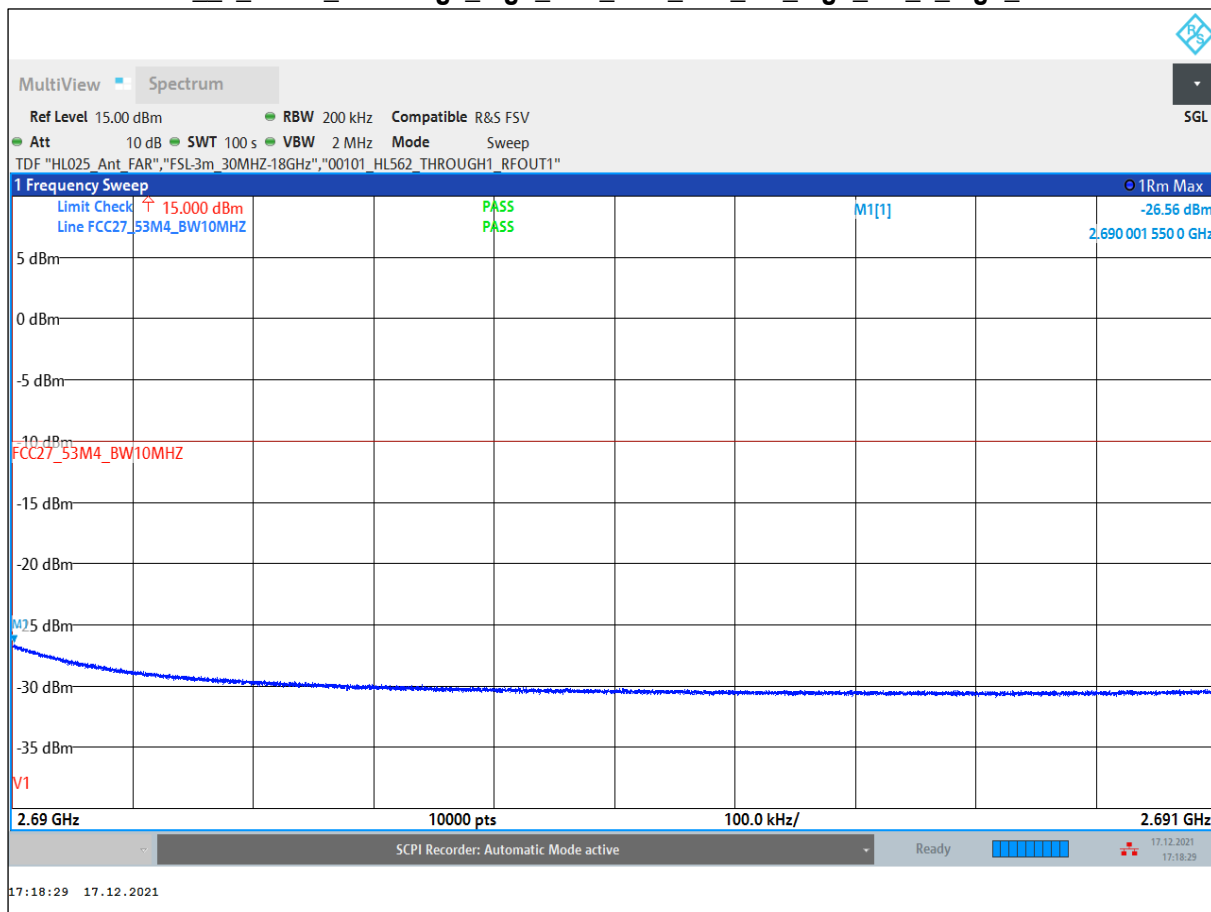




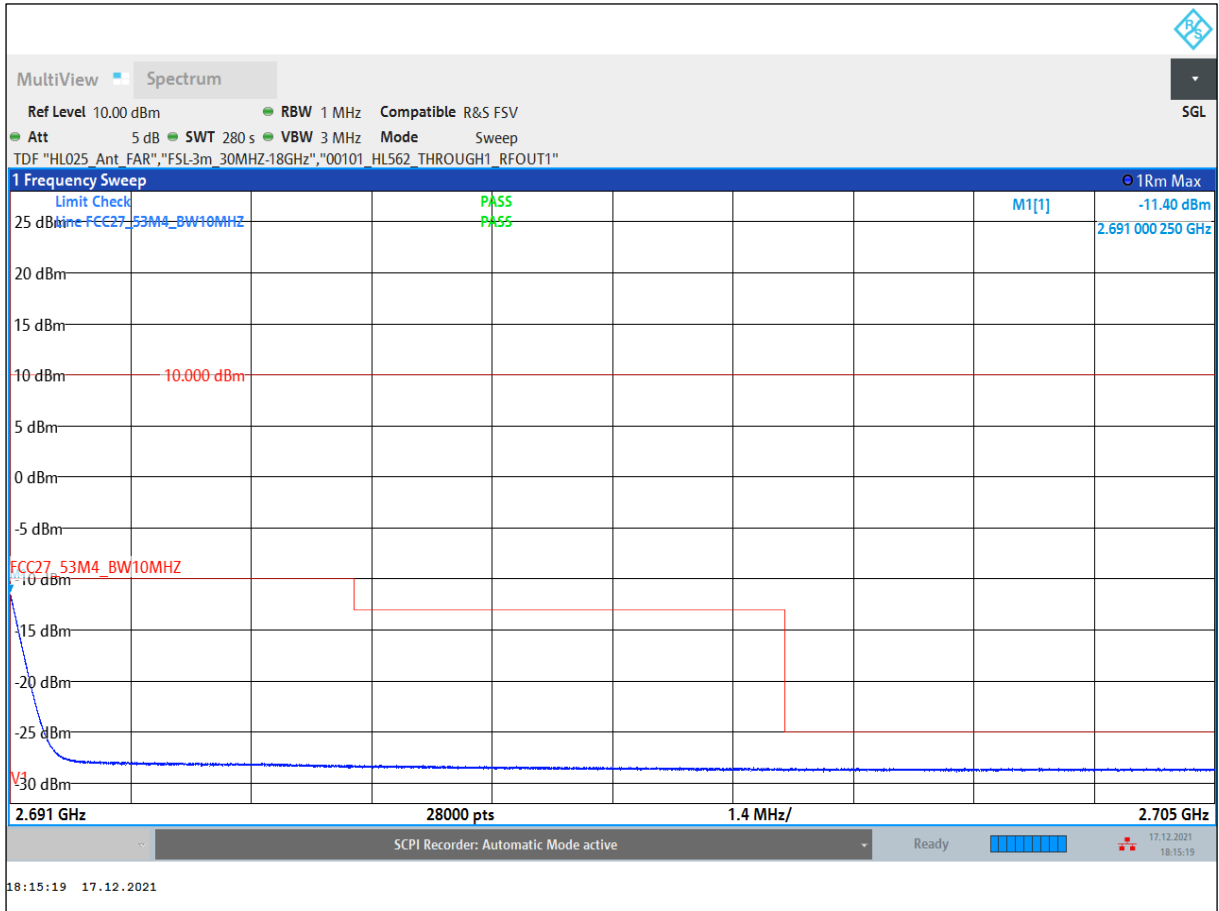
### D07\_\_9\_4103b\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_1\_high\_Anth



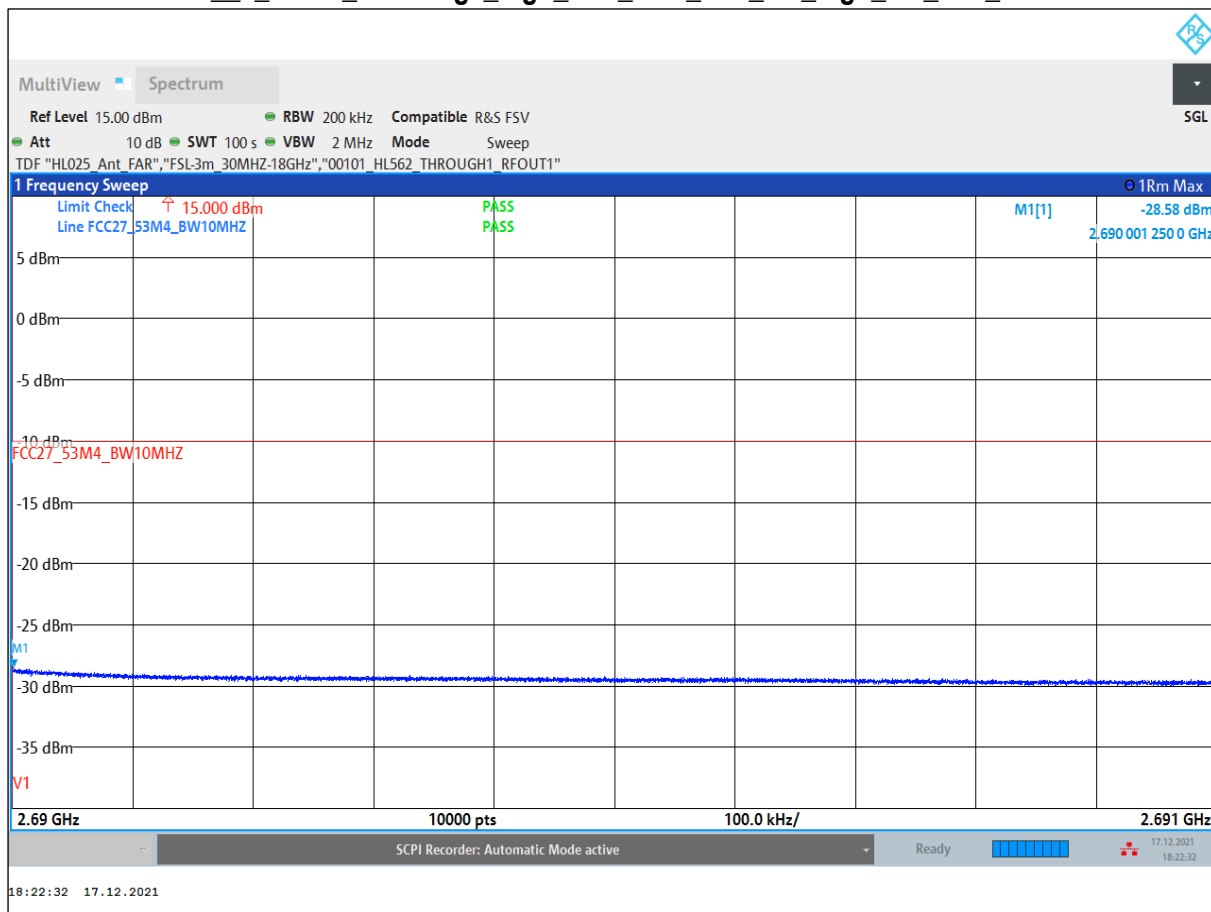
D07\_\_9\_4103c\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_1\_high\_AntV



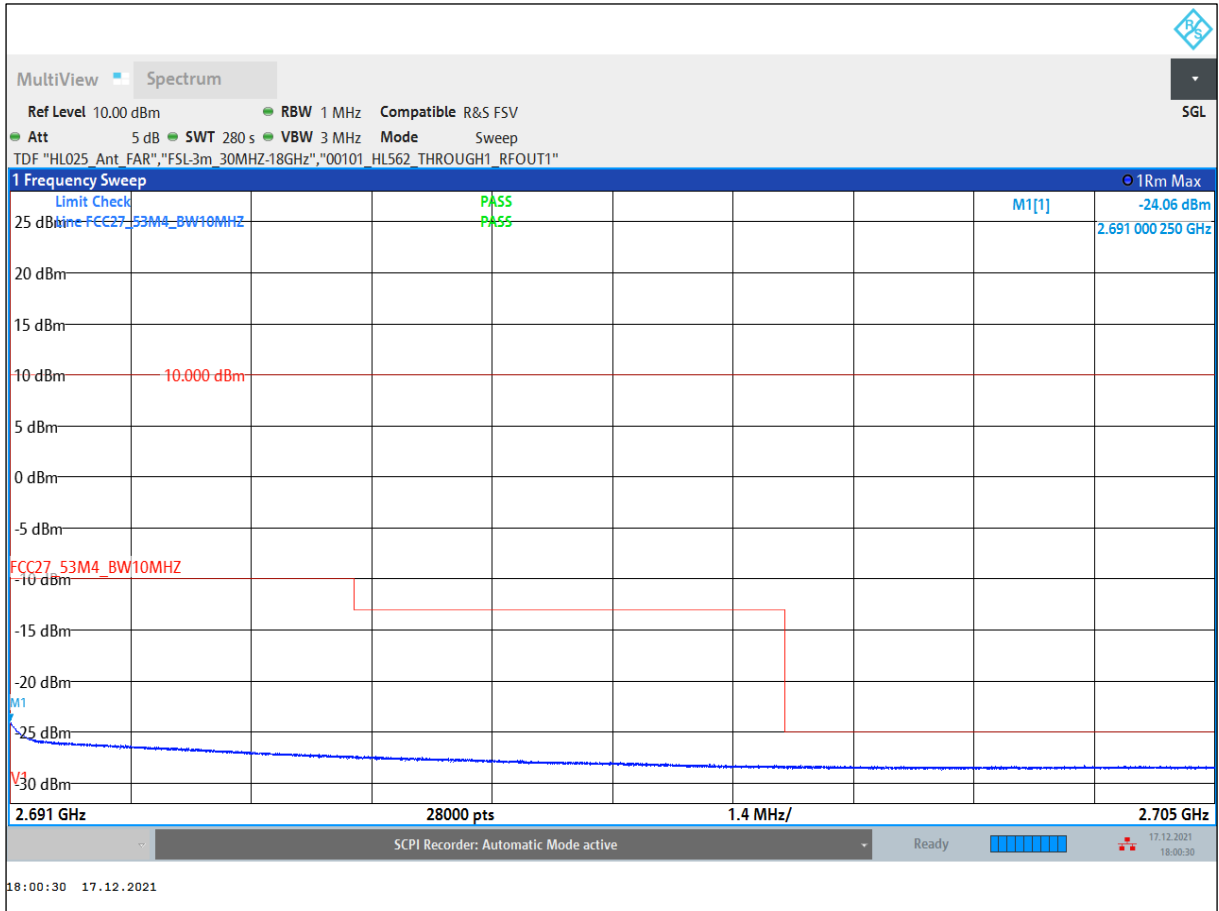
### D07\_\_9\_4103d\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_1\_high\_AntV



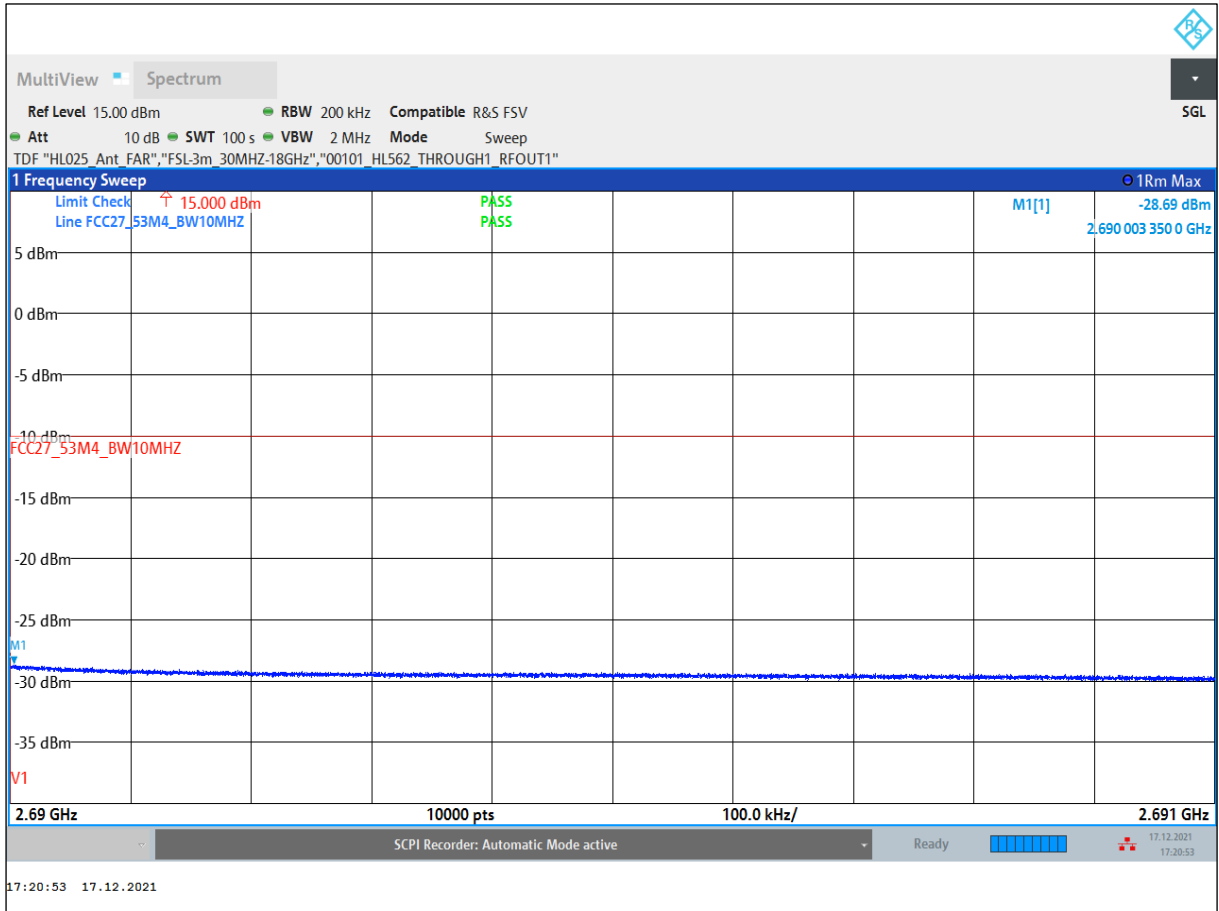
D07\_9\_4104a\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_Full\_AntH



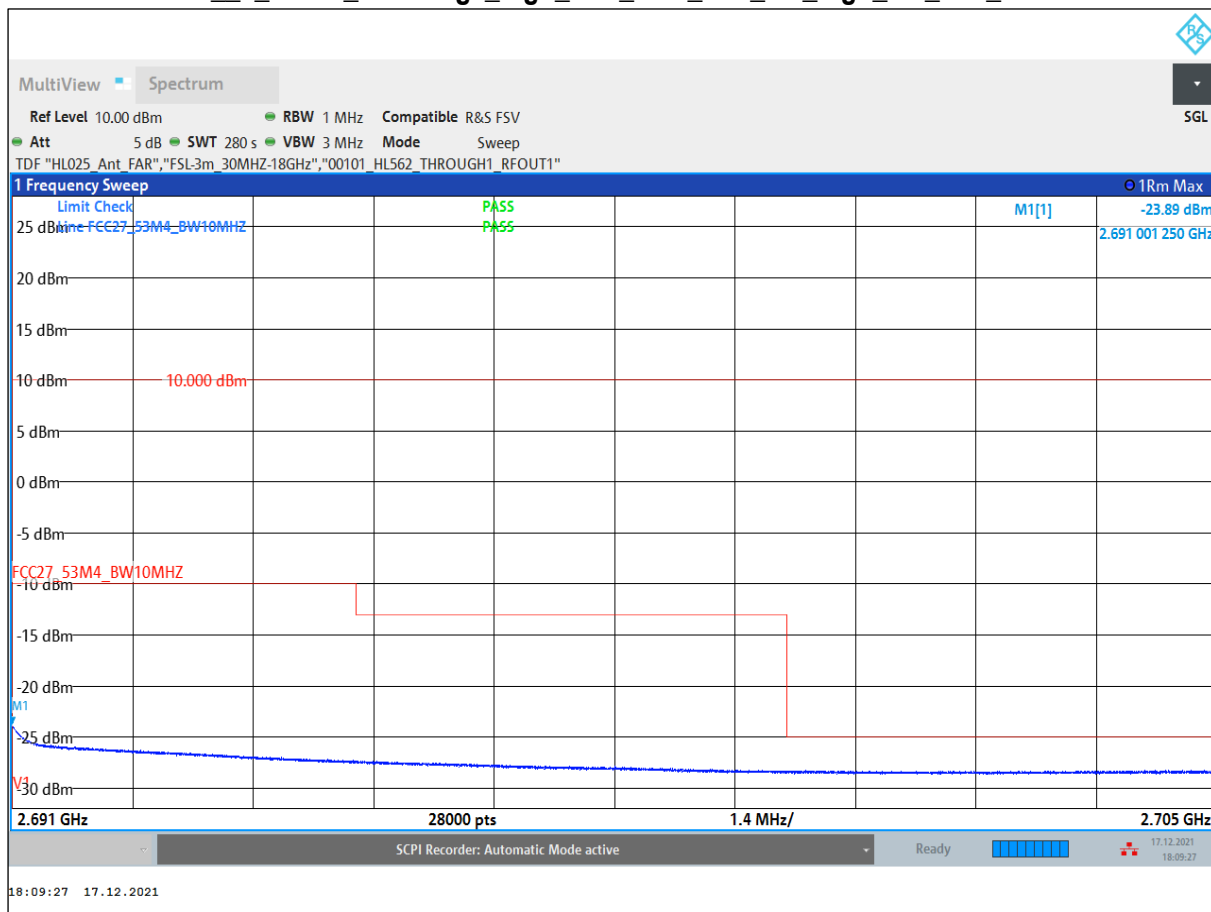
### D07\_9\_4104b\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_Full\_Anth



D07\_9\_4104c\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_Full\_AntV



D07\_9\_4104d\_Bandedge\_high\_LTE\_TDD\_B41\_CH\_high\_RB\_Full\_AntV



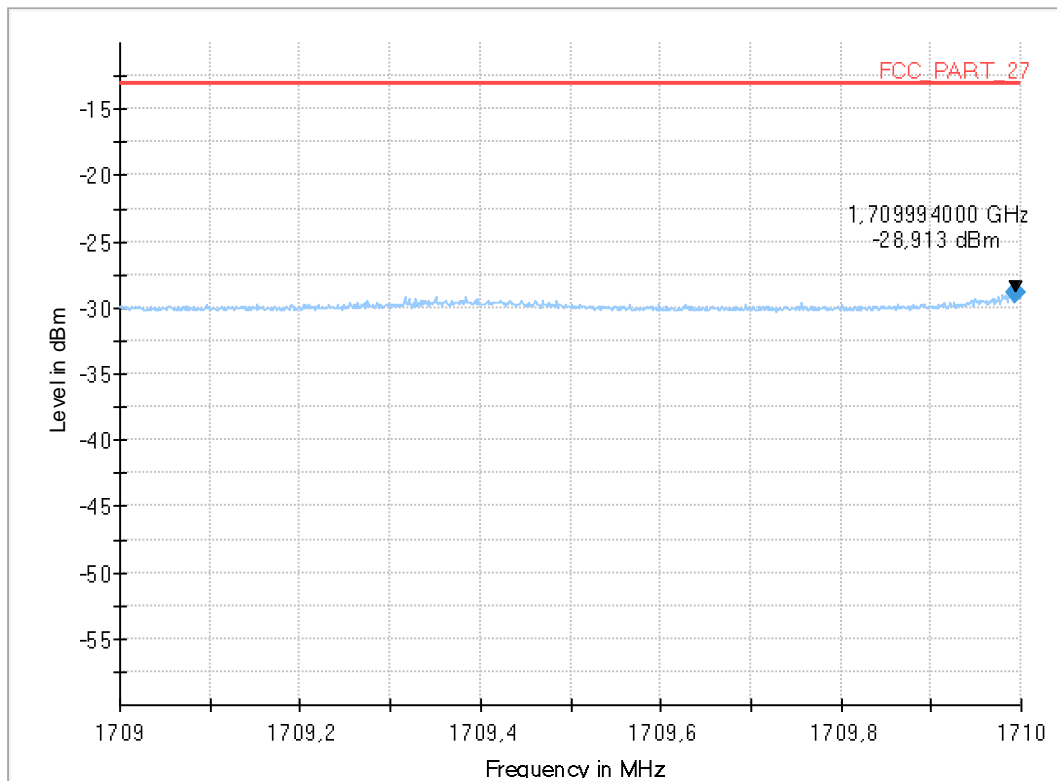
# 9.6601\_Bandedge\_low\_LTE\_FDD\_B66\_CH\_low\_RB\_1\_low

## Common Information

Test Description: Radiated Spurious Emissions - Band-Edge LTE Band 66  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_TDD66 | BW=20MHz | CH\_132072RB:1|RB Pos:low|QPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Operator: Aho  
 EUT Setup: 1  
 Verdict: Passed

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1709.994000	-28.91	-13.00	15.91	700.0	200.000	V	71.0	0.0	-62



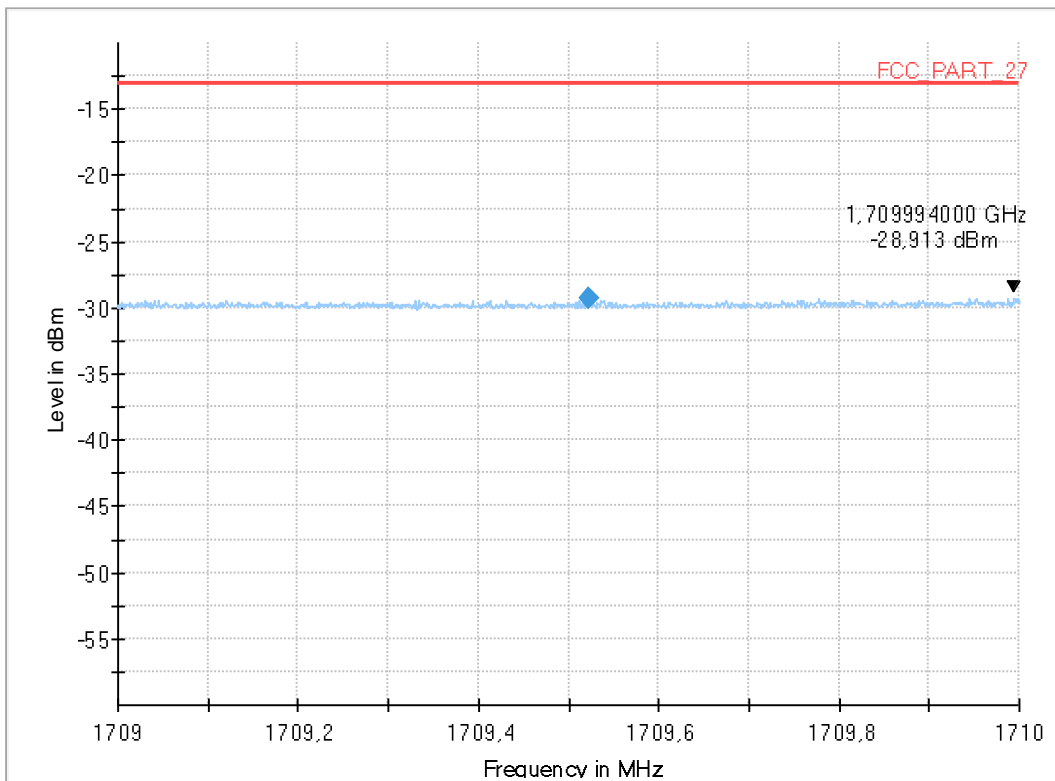
# 9.6602\_Bandedge\_low\_LTE\_FDD\_B66\_CH\_low\_RB\_Full

## Common Information

Test Description: Radiated Spurious Emissions - Band-Edge LTE Band 66  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27  
 Operating Mode: LTE\_TDD66 | BW=20MHz | CH\_ 132072|RB:100|QPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Operator: Aho  
 EUT Setup: 1  
 Verdict: PassedComment:

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1709.523000	-29.23	-13.00	16.23	700.0	200.000	V	74.0	0.0	-62

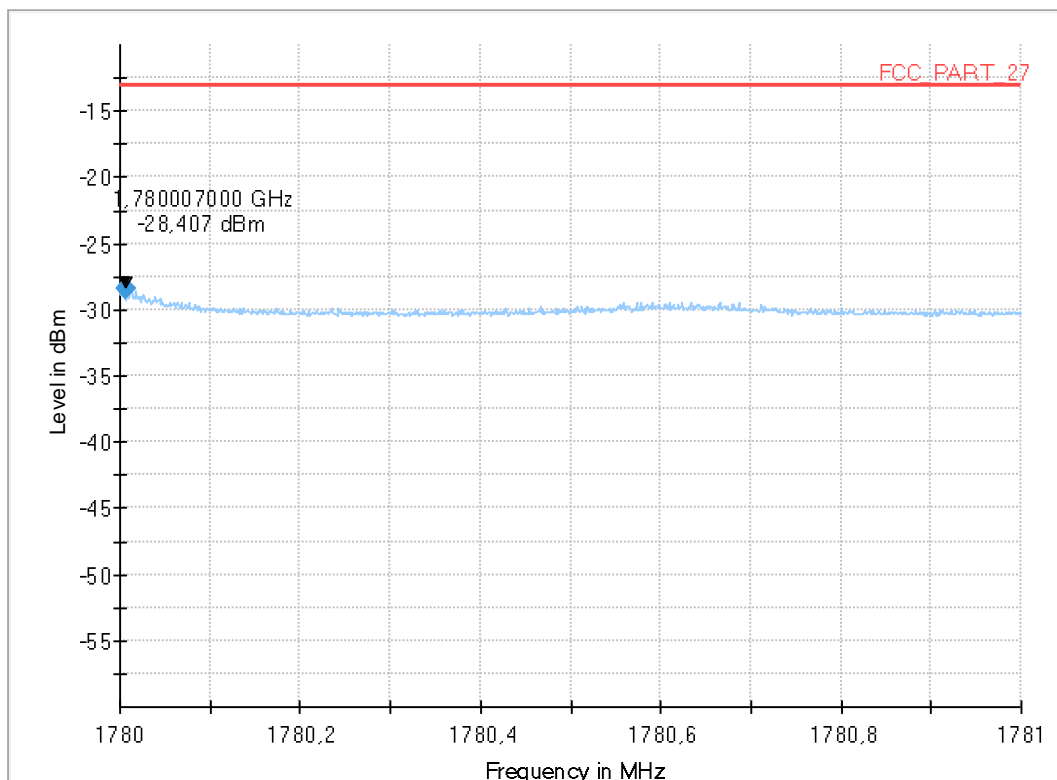
# 9.6603\_Bandedge\_high\_LTE\_FDD\_B66\_CH\_high\_RB\_1\_high

## Common Information

Test Description:	Radiated Spurious Emissions - Band-Edge LTE Band 66
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 27
Comm. Link:	LTE Band 66 (1710-1780MHz)
Operating Mode:	LTE_TDD66   BW=20MHz   CH_132072RB:1 RB Pos:high QPSK
Environmental Conditions:	Humidity : 60%rH; Temperature: 20°C
Operator:	Aho
EUT Setup:	1
Verdict:	Passed

## EUT Information

PMT number: 21-1-01033S04\_C01  
Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1780.07000	-28.41	-13.00	15.41	700.0	200.000	V	51.0	0.0	-62

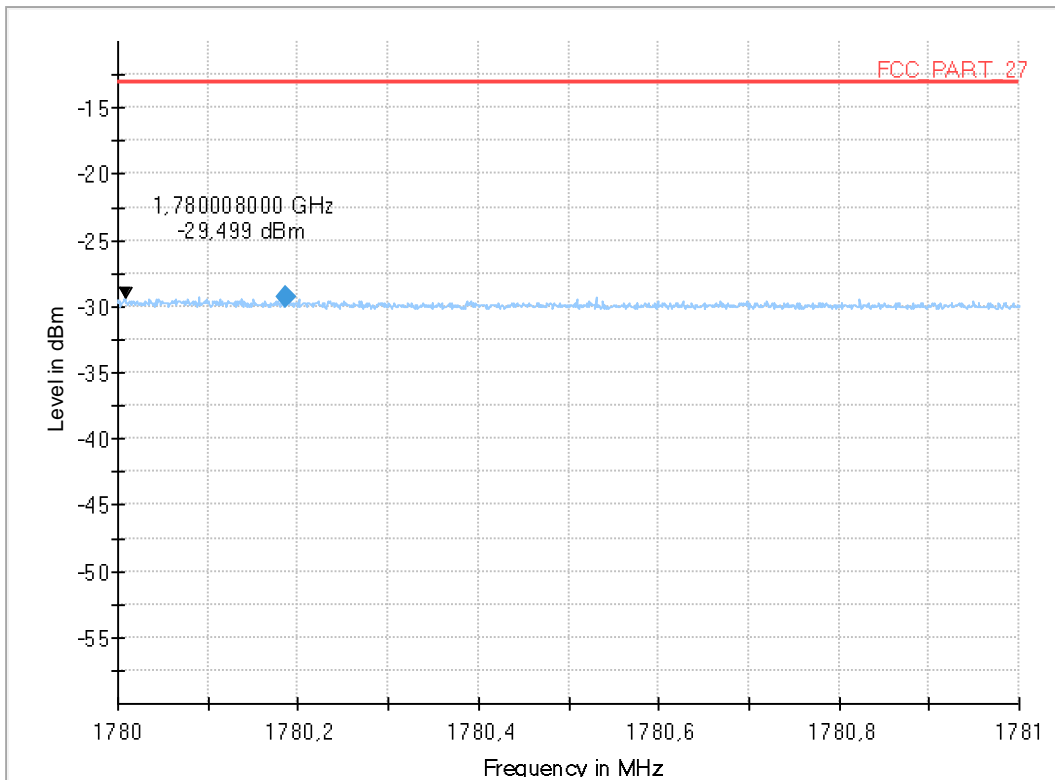
# 9.6604\_Bandedge\_high\_LTE\_FDD\_B66\_CH\_high\_RB\_Full

## Common Information

Test Description: Radiated Spurious Emissions - Band-Edge LTE Band 66  
 Test Site Location: CETECOM GmbH Essen  
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20  
 Test Standard: FCC Part 27.53 / RSS-139  
 Comm. Link: LTE Band 66 (1710-1780MHz)  
 Operating Mode: LTE\_TDD66 | BW=20MHz | CH\_ 132572|RB:100|QPSK  
 Environmental Conditions: Humidity : 60%rH; Temperature: 20°C  
 Operator: Aho  
 EUT Setup: 1  
 Verdict: Passed

## EUT Information

PMT number: 21-1-01033S04\_C01  
 Full Spectrum



## Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1780.187000	-29.27	-13.00	16.27	700.0	200.000	V	51.0	0.0	-62

**End of Annex 4**