

Annex 1: Measurement diagrams 20-1-0170701T08a-C4-A1

Number of pages:	71	Date of Report:	2021-Oct-29
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:	AIRBUS OPERATIONS S.A.S
Product:	Avionics device		
Model:	RMAX		
FCC ID:	2AZDJ-RMAX01	IC:	Contains 2417C-EM75
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, Part 90 Subpart S, Part 15, Subpart C, §15.209 RSS-132, Issue 3; RSS-133, Issue 6; RSS-130, Issue 2, RSS-139, Issue 3, RSS-199, 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".		



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1 Measurement diagrams

1.1 Radiated field strength emissions below 30 MHz

2.201_H_field_LTE_FDD_B02_CH_18700

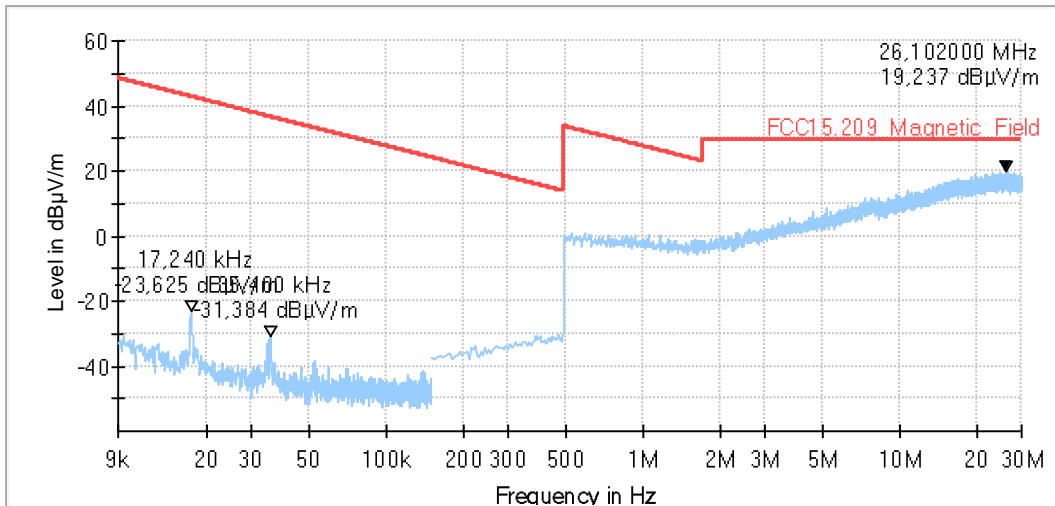
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:	npe
Operating Mode:	LTE_FDD_B02_CH_18700
Power during tests:	28VDC
Comment 1:	EUT Standing
Comment 2:	
Environmental Conditions::	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



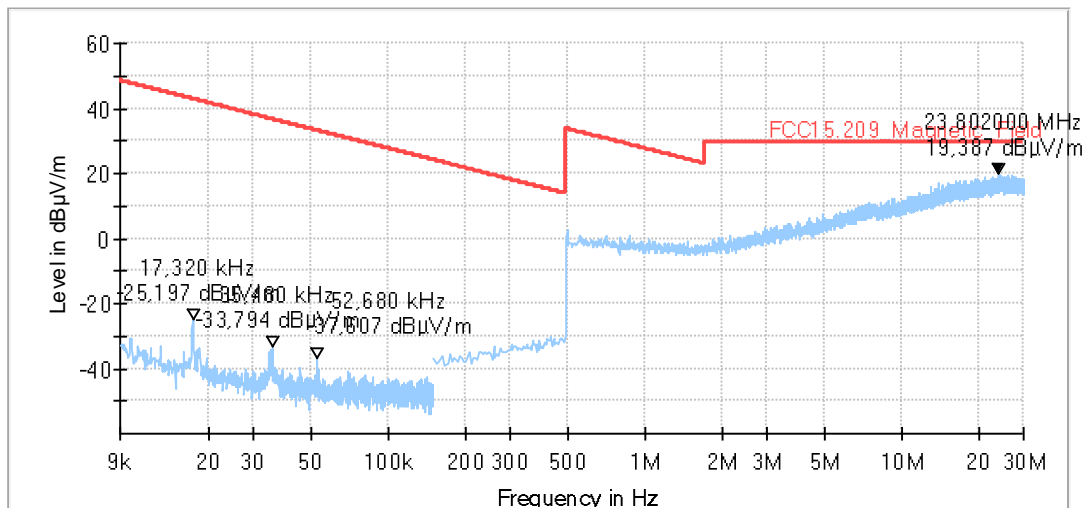
2.202_H_field_LTE_FDD_B02_CH_18700

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	npe
Operating Mode:	LTE_FDD_B02_CH_18700
Power during tests:	28V DC, 110V/60Hz, full loaded batteries
Comment 1:	EUT laying
Comment 2:	
Environmental Conditions::	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



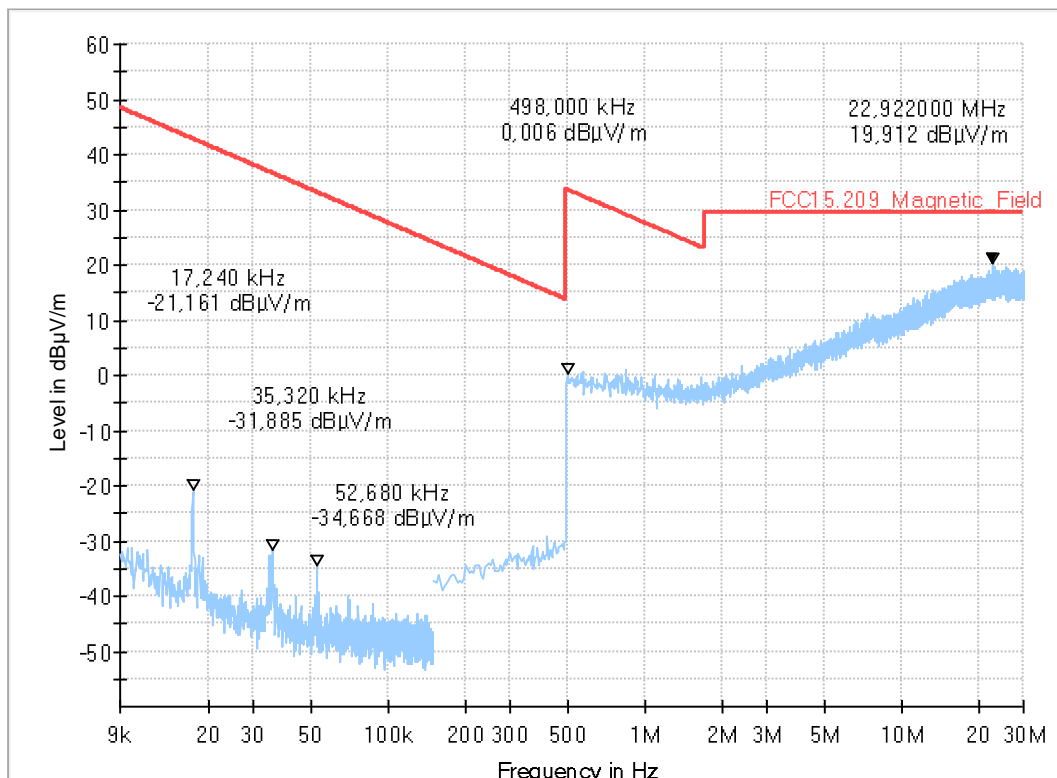
2.401_Traffic_mode_LTE_FDD_B04_CH_20300

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFra
Operating Mode:	LTE_FDD_04 CH_20300 BW20 1RBlow
Power during tests:	28V DC, 110V/60Hz, full loaded batteries
Comment 1:	Channel low/middle/high
Comment 2:	
Environmental Conditions::	Humidity : 52%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



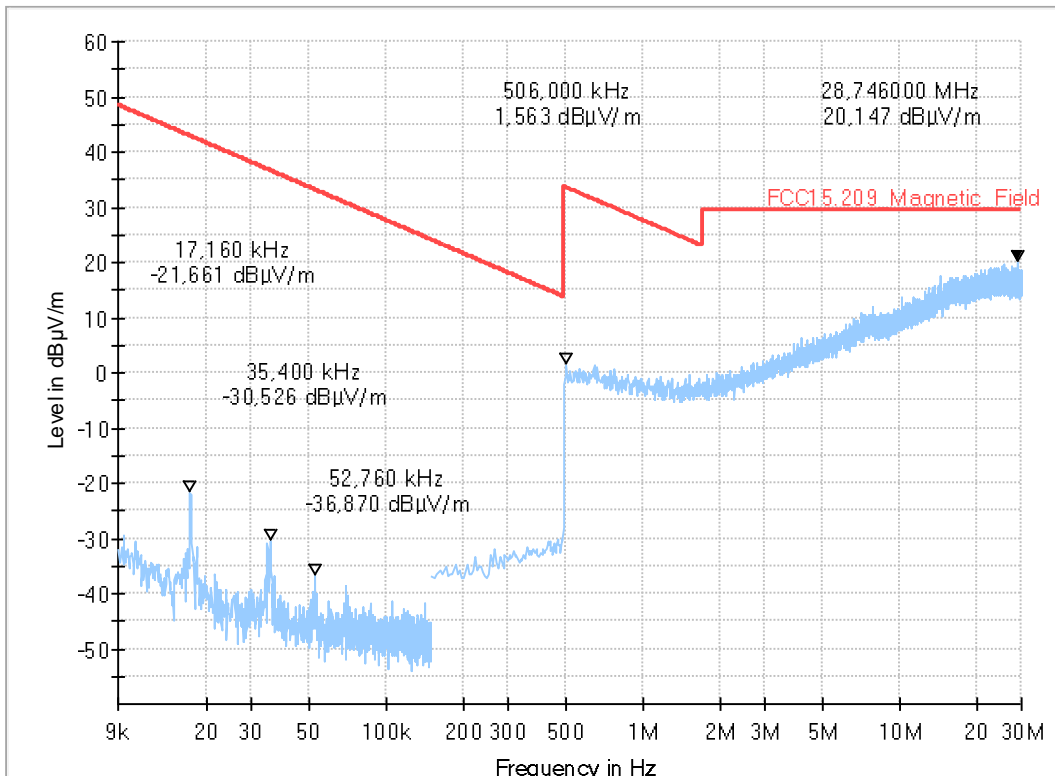
2.501_Traffic_mode_LTE_FDD_B05_CH_20625

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFra
Operating Mode:	LTE_FDD_05 CH_20625 BW5 1RBlow
Environmental Conditions:	Humidity : 53%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



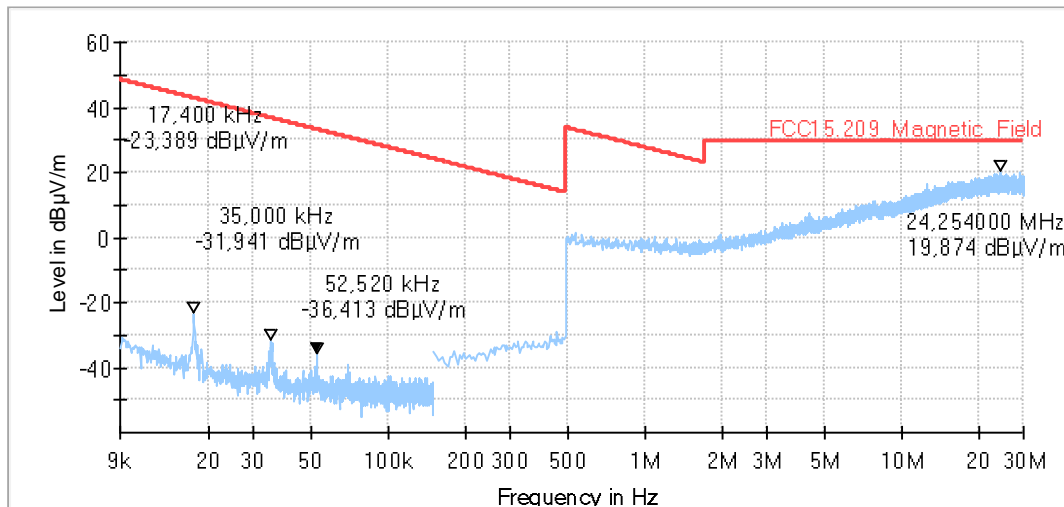
2.701_H_field_LTE_FDD_B07_CH_20800

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	npe
Operating Mode:	LTE_FDD_B07_CH_20800
Power during tests:	28 VDC
Comment 1:	EUT laying
Comment 2:	
Environmental Conditions::	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



2.1201_H_field_LTE_FDD_B12_CH_23035

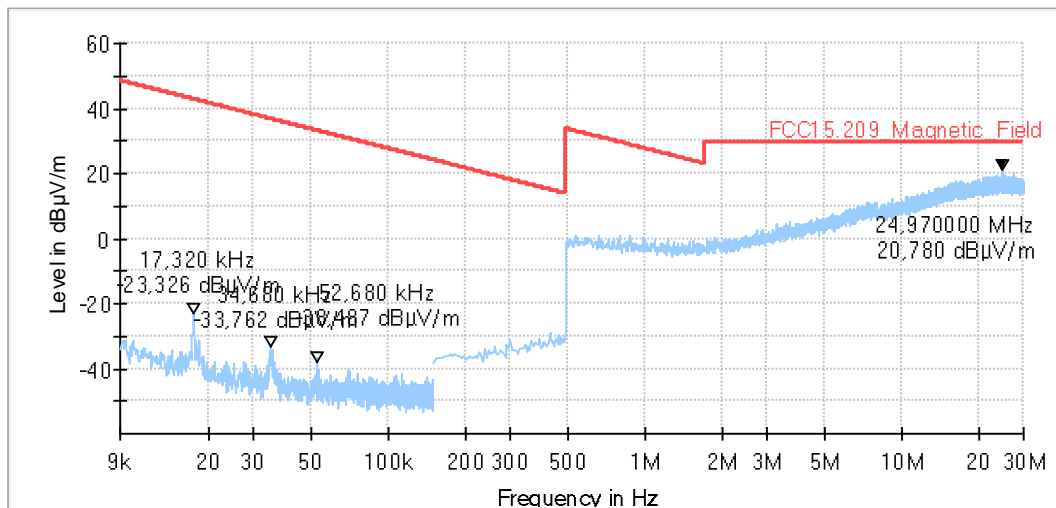
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	npe
Operating Mode:	LTE_FDD_B12_CH_23035
Power during tests:	28 VDC
Comment 1:	EUT laying
Comment 2:	
Environmental Conditions::	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01

Full Spectrum



2.1301_H_field_LTE_FDD_B13_CH_23230

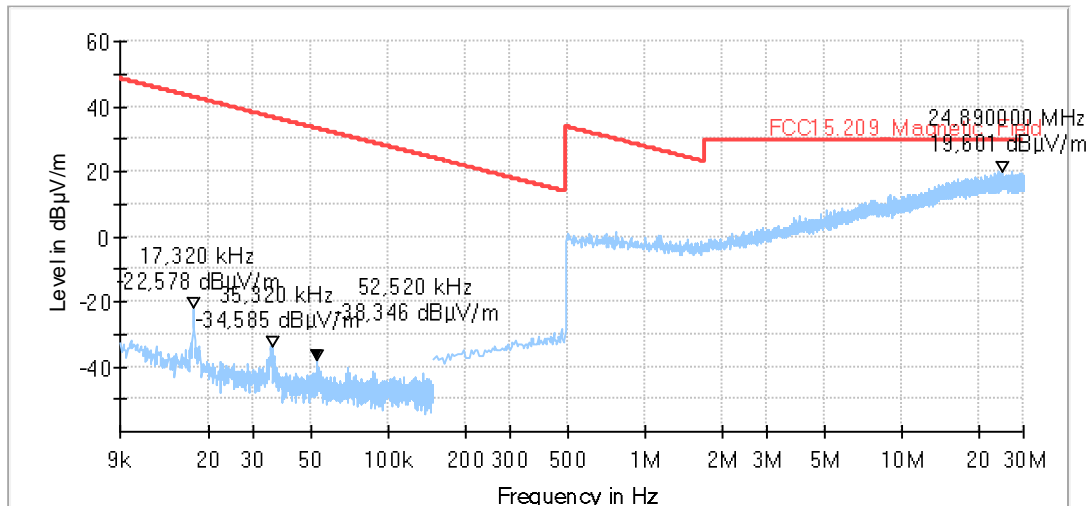
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	npe
Operating Mode:	LTE_FDD_B13_CH_23230
Power during tests:	28 VDC
Comment 1:	EUT laying
Comment 2:	
Environmental Conditions::	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01

Full Spectrum



2.2601_H_field_LTE_FDD_B26_CH_26865

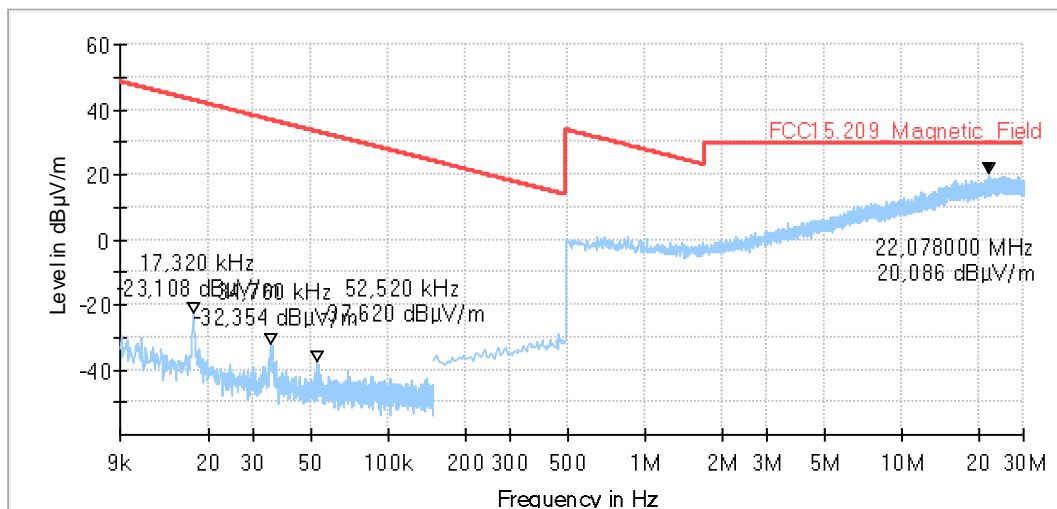
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	npe
Operating Mode:	LTE_FDD_B26_CH_26865
Power during tests:	28 VDC
Comment 1:	EUT laying
Comment 2:	
Environmental Conditions::	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01

Full Spectrum



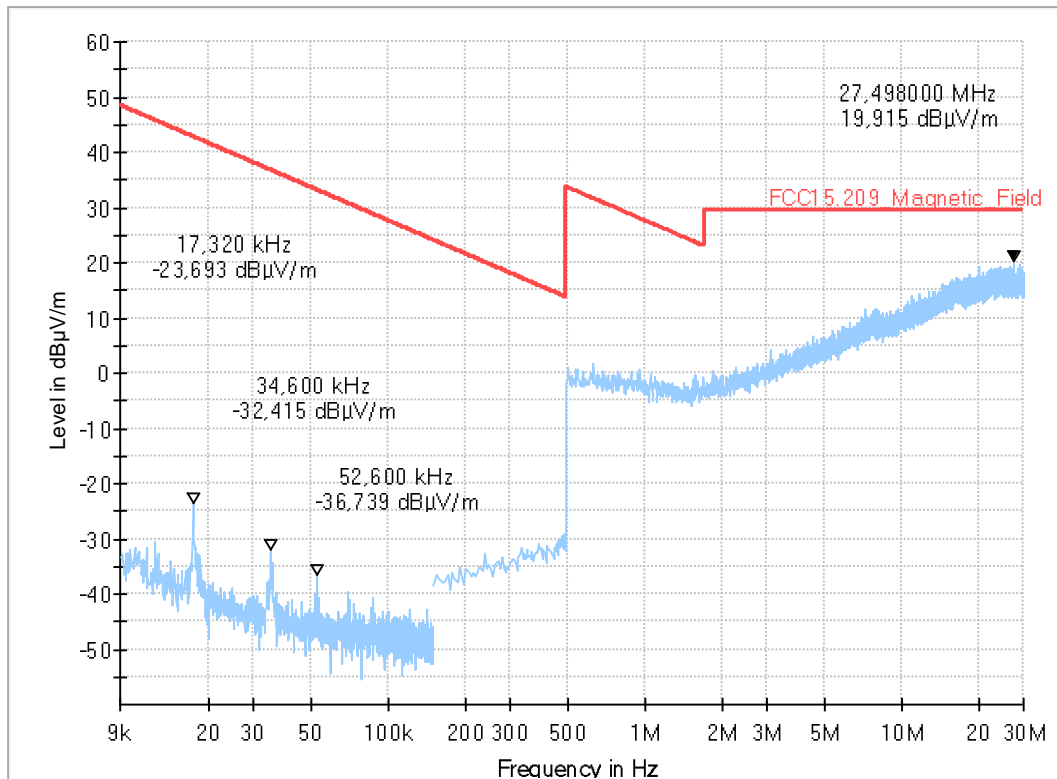
2.4101_H_field_LTE_TDD_B41_CH_39750

Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	npe
Operating Mode:	LTE_FDD_B41_CH_39750
Power during tests:	28 VDC
Comment 1:	EUT laying
Comment 2:	
Environmental Conditions:	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



2.6601_H_field_LTE_FDD_B66_CH_132072

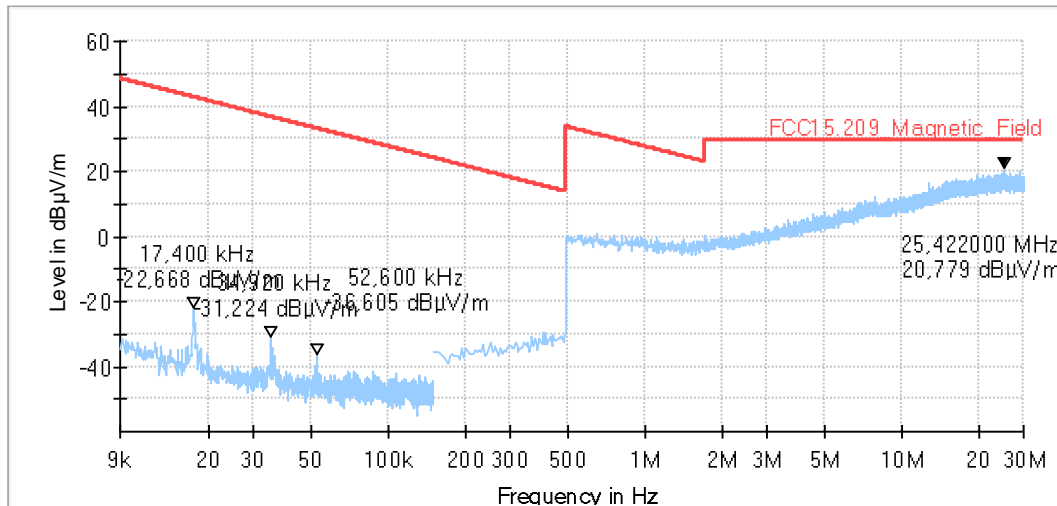
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
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 Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	npe
Operating Mode:	LTE_FDD_B66_CH_132072
Power during tests:	28 VDC
Comment 1:	EUT laying
Comment 2:	
Environmental Conditions::	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01

Full Spectrum



1.2 Radiated spurious emissions above 30 MHz

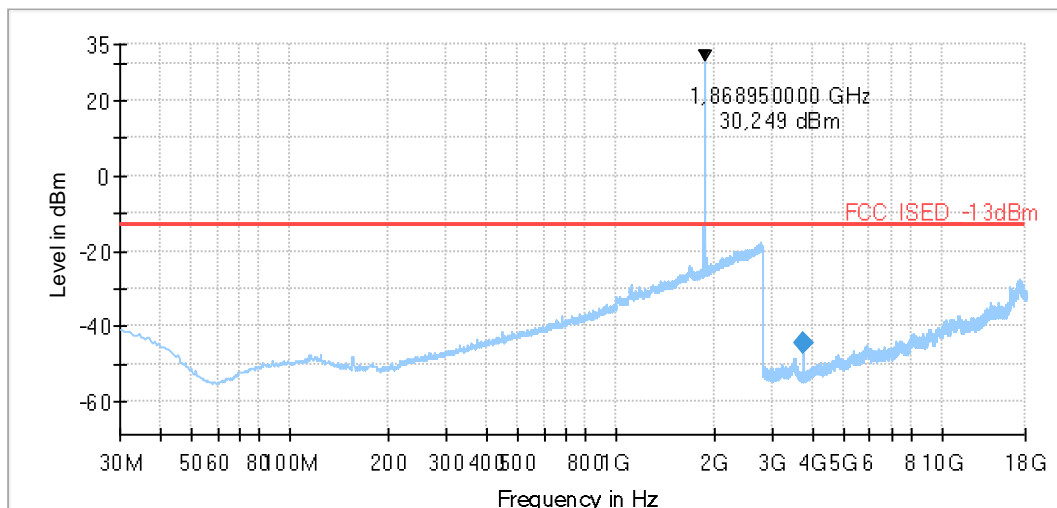
8.02_Traffic_mode_LTE_FDD_B02_CH_18700

Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully-Anechoic Chamber
Test Standard:	FCC Part 24, RSS 133, issue 6
Antenna polarisation:	vertical / horizontal
Measurement software version	EMC32 V10.50.0
Operating Mode:	LTE_FDD_B02_CH_18700
Operator:	WAbdellatif
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01
Full Spectrum



Remarks:

- Emission at 1.868950000 GHz is Uplink frequency of LTE Band 2, not related to Result.

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Elevation	Corr. (dB)
3737.856666	-44.50	-13.00	31.50	100.0	1000.000	155.0	V	231.0	90.0	-94

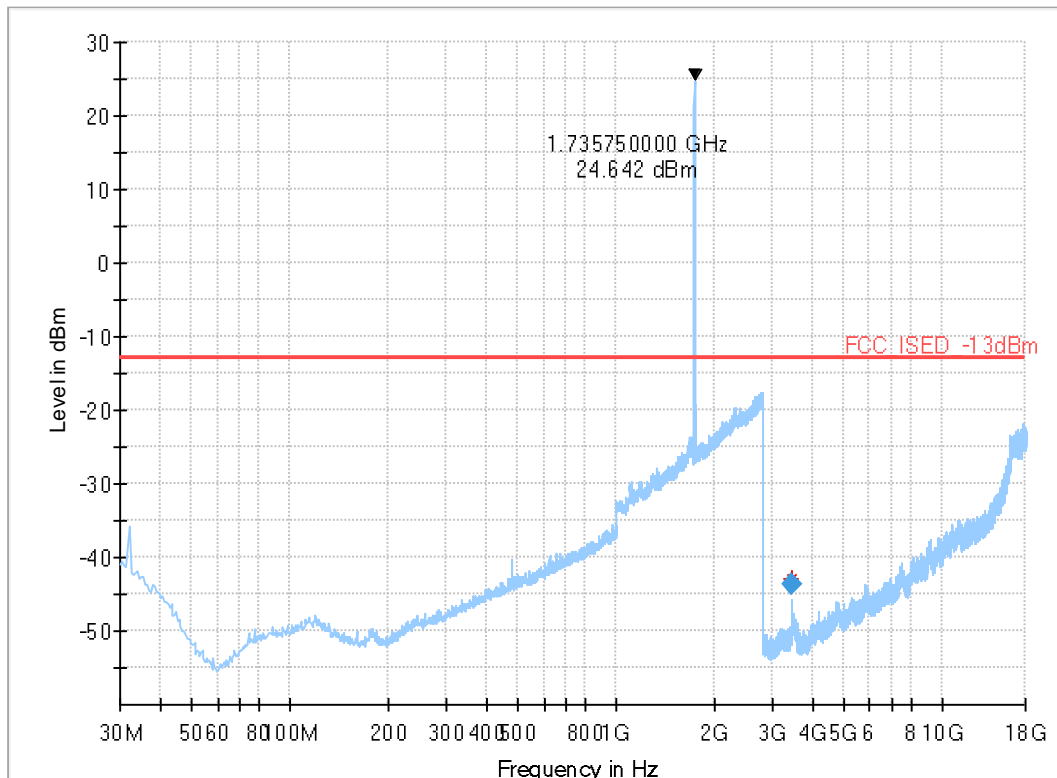
8.04_Traffic_mode_LTE_FDD_B04_CH_20300

Common Information

Test Description: Radiated Spurious Emission
 Test Site: Fully-Anechoic Chamber
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Antenna polarisation: vertical / horizontal
 Measurement software version: EMC32 V10.60.20
 Operating Mode: LTE_FDD04 | BW=20MHz | CH_20300 |RB:1|Low QPSK
 Operator: Aho
 Comment: Environmental Conditions:
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_C01
 Full Spectrum



Remarks:

- Emission at 1.735750000 GHz is Uplink frequency of LTE Band 4, not related to Result.

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB)
3472.200000	-43.73	-13.00	30.73	100.0	1000.000	155.0	V	263.0	90.0	-92

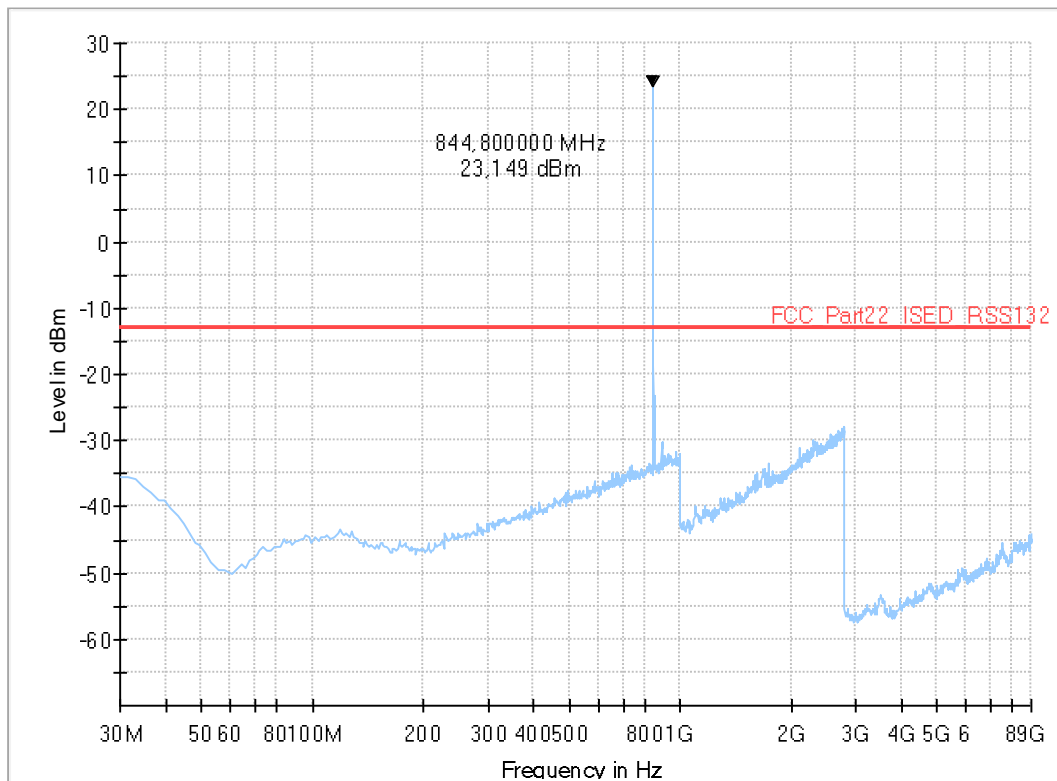
8.05_Traffic_mode_LTE_FDD_B05_CH_20625

Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 22, RSS 132, issue 3
Antenna polarisation:	vertical / horizontal
Operating Mode:	LTE_FDD05 BW=5MHz CH_20625 RB:1 Low QPSK
Operator:	Aho
Environmental Conditions:	Humidity : 55%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



Remarks:

- Emission at 844.800000 MHz is Uplink frequency of LTE Band 5, not related to Result.

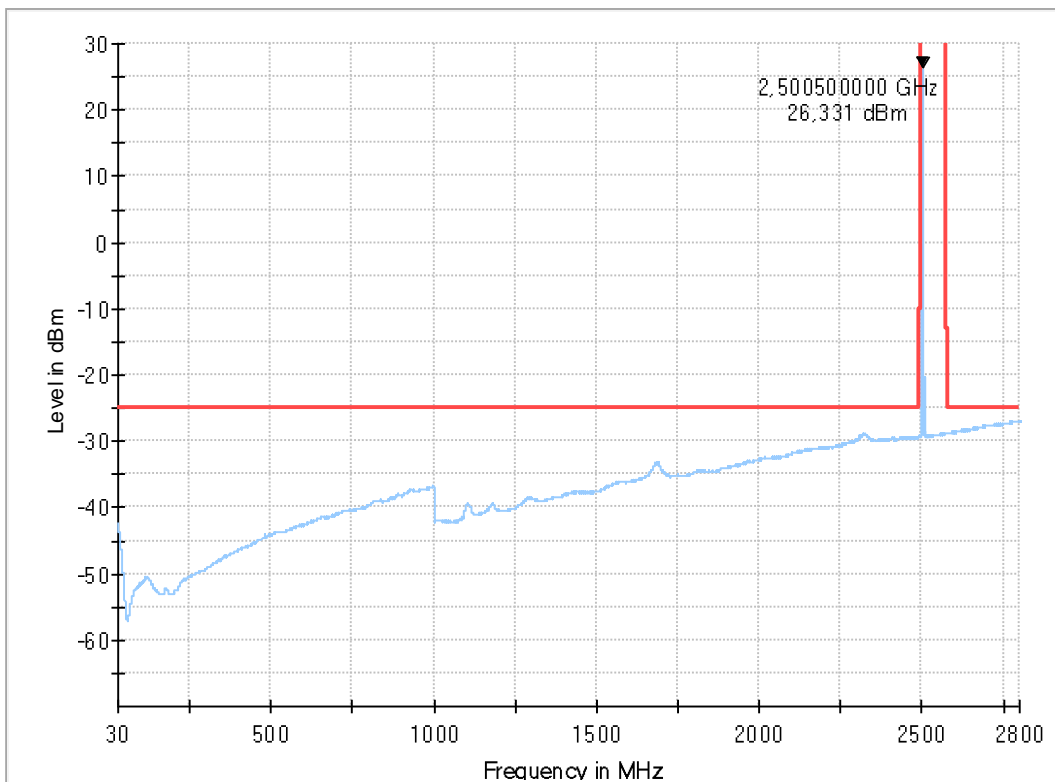
8.07a_Traffic_mode_LTE_FDD_B07_CH_20800

Common Information

Test Description:	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, RSS 199, issue 3
Operating Mode:	LTE_FDD_B07_CH_20800_BW:10MHz_RB:1_Low
Environmental Conditions:	Humidity : 38%rH; Temperature: 18°C
Test SW Version:	EMC32 V10.50.0
Operator:	HEI
Remarks:	EUT - laying/standing position
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



Remarks:

- Emission at 2.500500000 GHz is Uplink frequency of LTE Band 7, not related to Result.

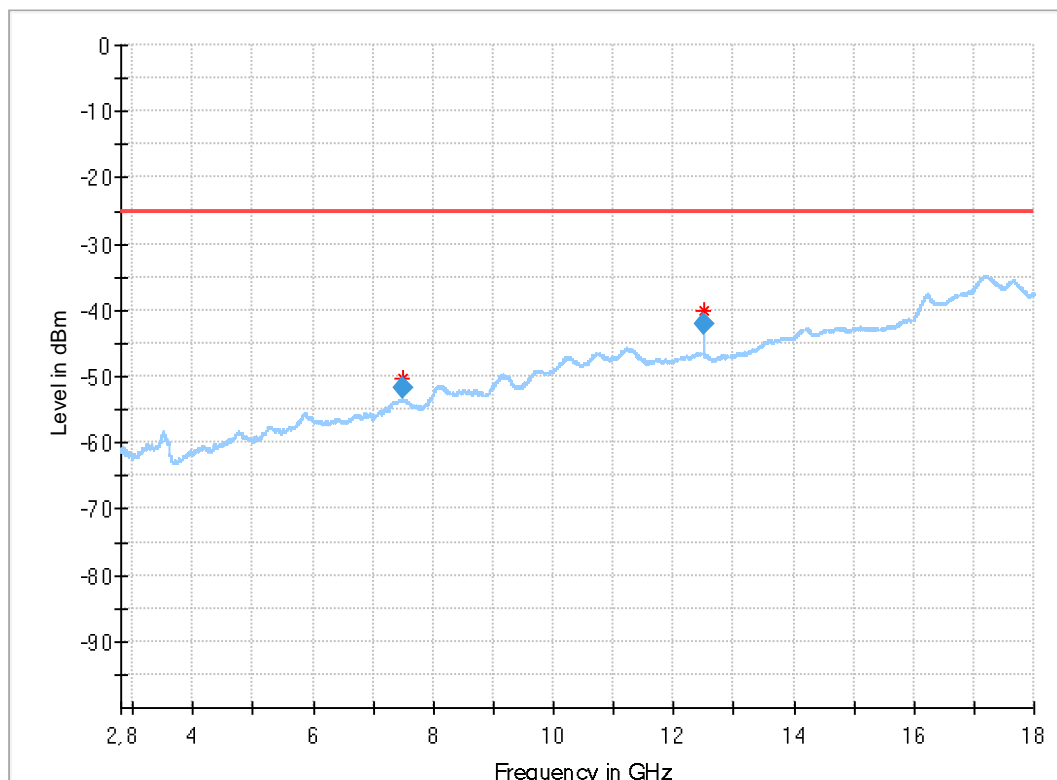
8.07b_Traffic_mode_LTE_FDD_B07_CH_20800

Common Information

Test Description: 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, RSS 199, issue 3
 Operating Mode: LTE_FDD_B07_CH_20800_BW:10MHz_RB:1_Low
 Environmental Conditions: Humidity : 38%RH; Temperature: 18°C
 Operator: HEI
 EUT Setup: 1
 Verdict: Passed

EUT Information

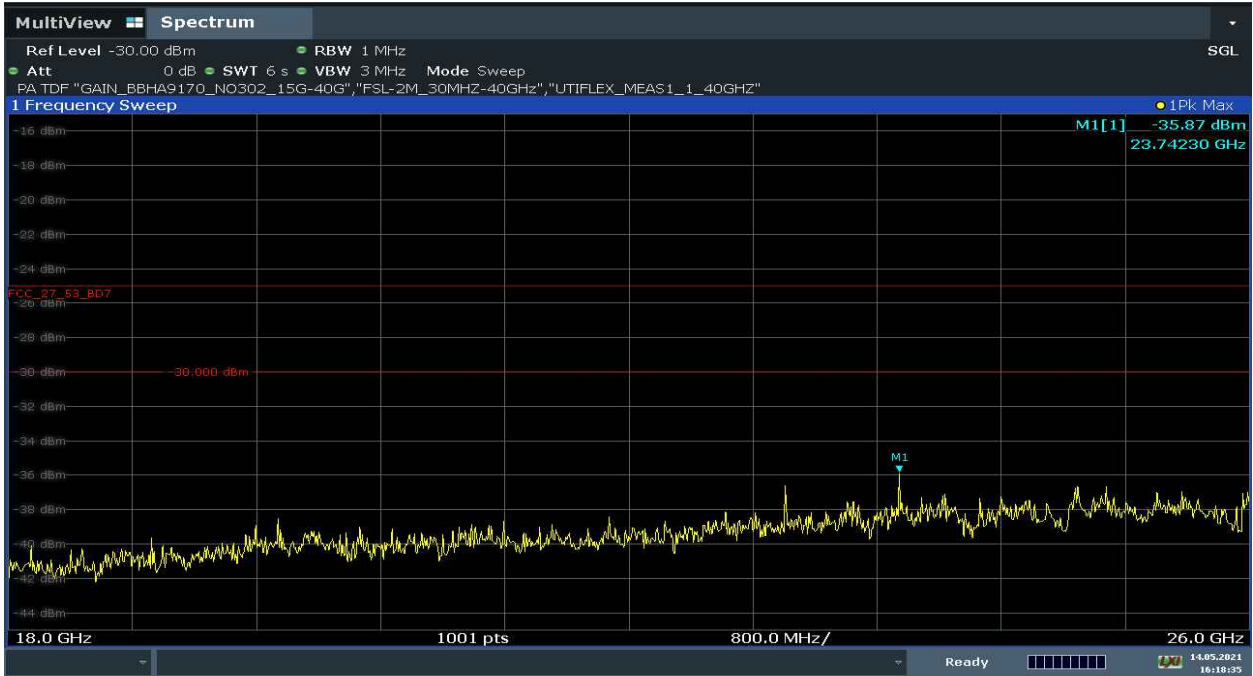
PMT number: 20-1-01707S05_C01
 Full Spectrum



Final_Result

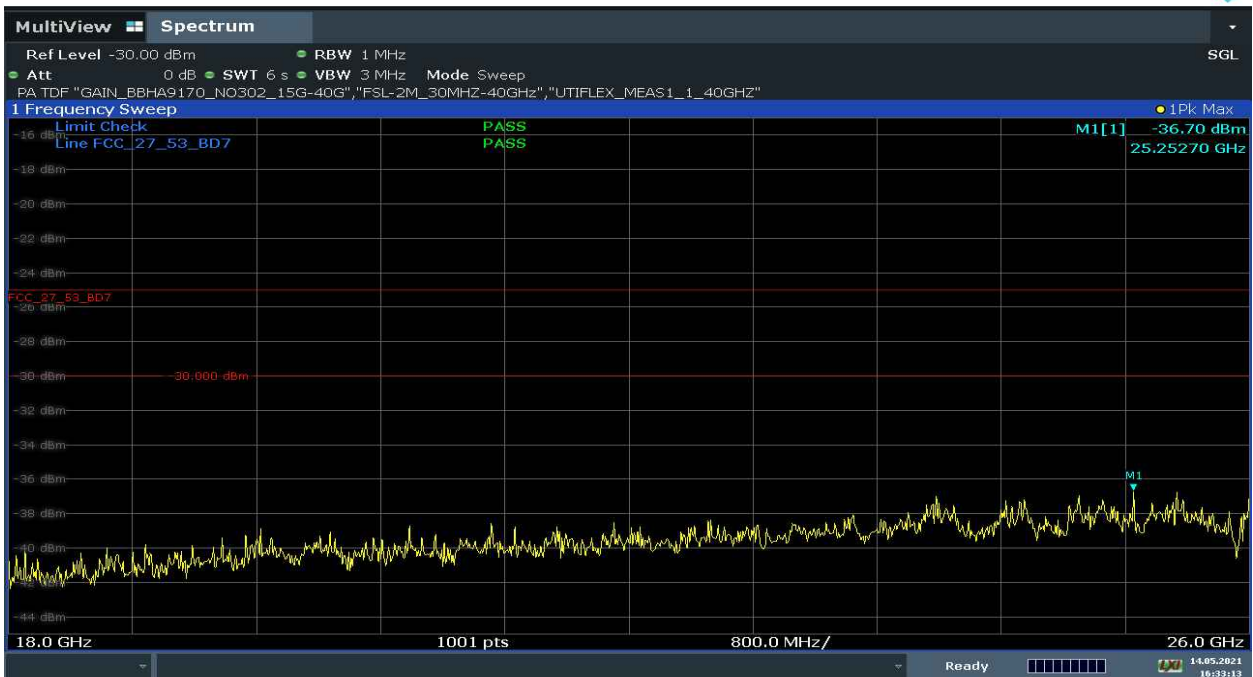
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
7501.716000	-51.77	-25.00	26.77	1000.0	1000.000	H	312.0	90.0	-82
12503.040000	-42.03	-25.00	17.03	1000.0	1000.000	H	312.0	0.0	-76

8.07c_RSE_TX_Ch20800_QPSK_1RBlow_BW10_AntH



16:18:35 14.05.2021

8.07c_RSE_TX_Ch20800_QPSK_1RBlow_BW10_AntV



16:33:14 14.05.2021

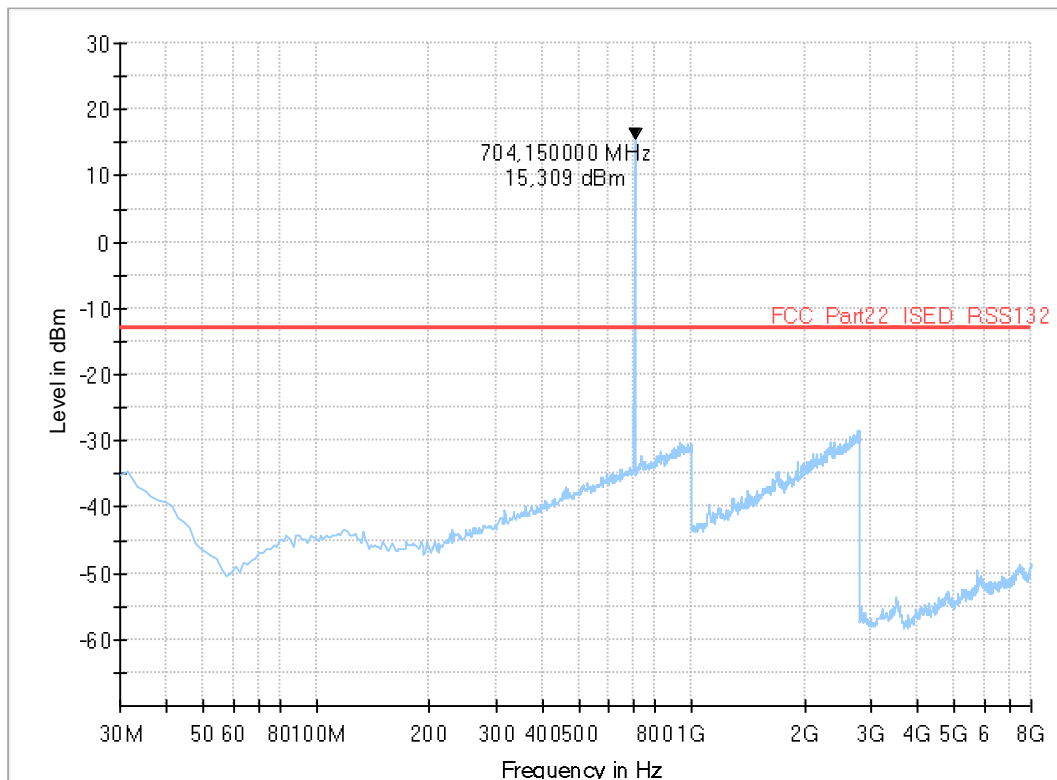
8.12_Traffic_mode_LTE_FDD_B12_CH_23035

Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27, RSS 130, issue 2
Antenna polarisation:	vertical / horizontal
Operating Mode:	LTE_FDD_B012_CH_23035_BW:5MHz_RB:1_High
Operator:	HEI
Environmental Conditions:	Humidity : 38%rH; Temperature: 17°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



Remarks:

- Emission at 704.150000 MHz is Uplink frequency of LTE Band 12, not related to Result.

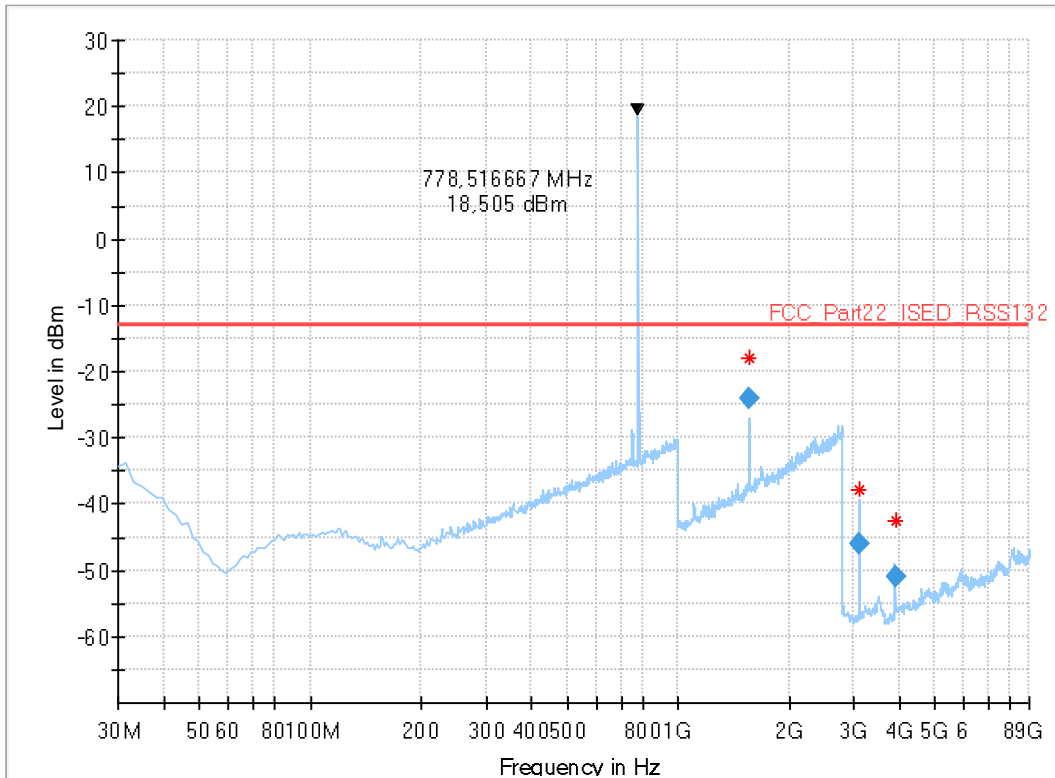
8.13_Traffic_mode_LTE_FDD_B13_CH_23230

Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27, RSS 130, issue 2
Antenna polarisation:	vertical / horizontal
Operating Mode:	LTE_FDD_13 UL_23230 (782MHz) DL_5230 (751MHz) 1RB_low BW_10MHz
Operator:	TFra
Environmental Conditions:	Humidity : 44%rH; Temperature: 19°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



Remarks:

- Emission at 778.516667 MHz is Uplink frequency of LTE Band 13, not related to Result.

Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Elevation	Corr. (dB)
1555.200000	-24.09	-13.00	11.09	100.0	100.000	155.0	H	134.0	90.0	-64
3110.200000	-46.05	-13.00	33.05	100.0	100.000	155.0	H	170.0	90.0	-94
3888.200000	-51.01	-13.00	38.01	100.0	100.000	155.0	H	353.0	0.0	-93

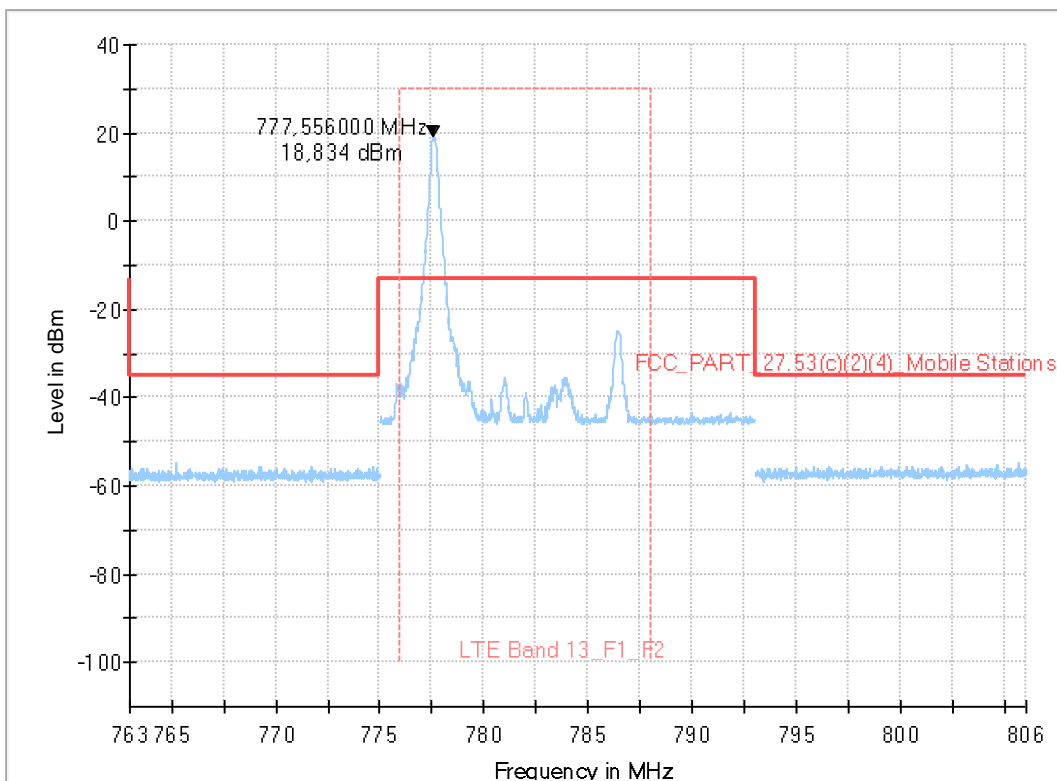
8.13a_Traffic_mode_LTE_FDD_B13_CH_23230_GPS_Band

Common Information

Test Description:	Radiated Spurious Emissions LTE Band 13
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27, RSS 130, issue 2
Comm. Link:	LTE Band 13
Operating Mode:	MS allocated channel xxx (UL = 782MHz)
Exclusionband:	Uplink: 776-787MHz Downlink: -31MHz Offset
Environmental Conditions:	Humidity : 38%rH; Temperature: 19°C
Operator:	HEI
Verdict:	Passed

EUT Information

PMT number	20-1-01707S05_C01
	Full Spectrum



Remarks:

- Emission at 777.556000 MHz is Uplink frequency of LTE Band 13, not related to Result.

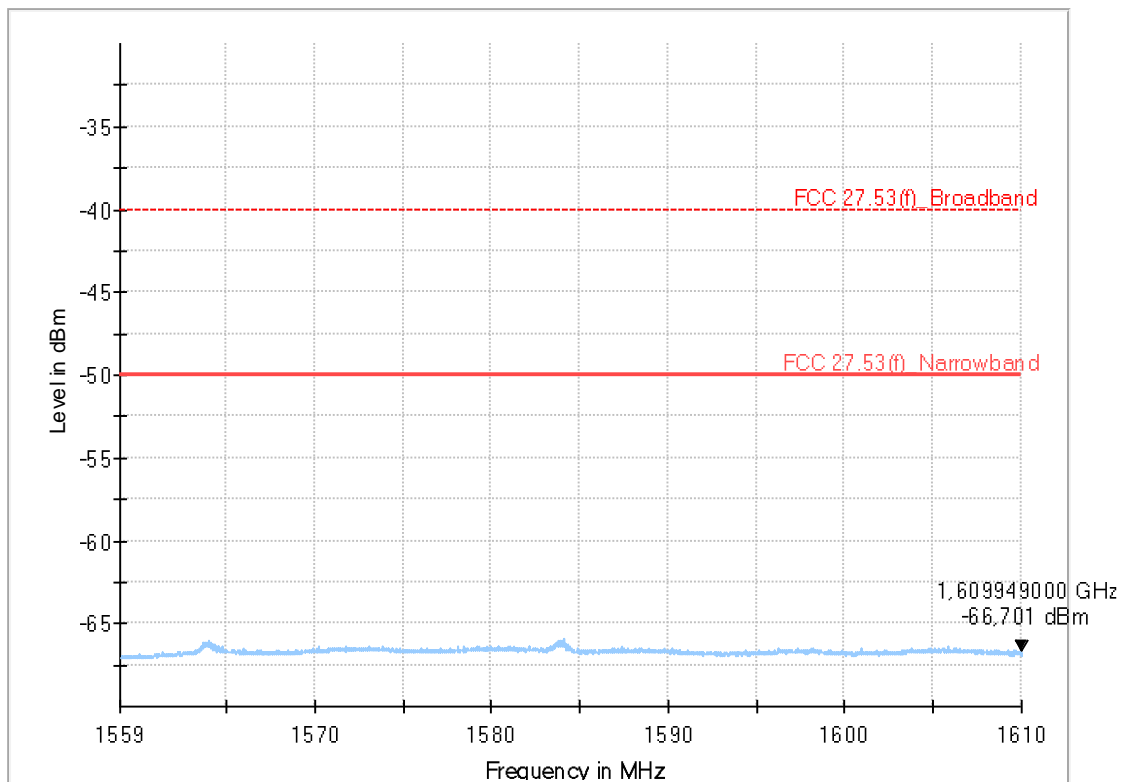
8.13b_Traffic_mode_LTE_FDD_B13_CH_23230_GPS_Band

Common Information

Test Description:	Radiated Spurious Emissions LTE Band 13
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27, RSS 130, issue 2
Comm. Link:	LTE Band 13
Operating Mode:	LTE_FDD13 BW=5MHz CH_23255 25RB_high QPSK
Exclusionband:	Uplink: 776-787MHz Downlink: -31MHz Offset
Environmental Conditions::	Humidity : 38%rH; Temperature: 18°C
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



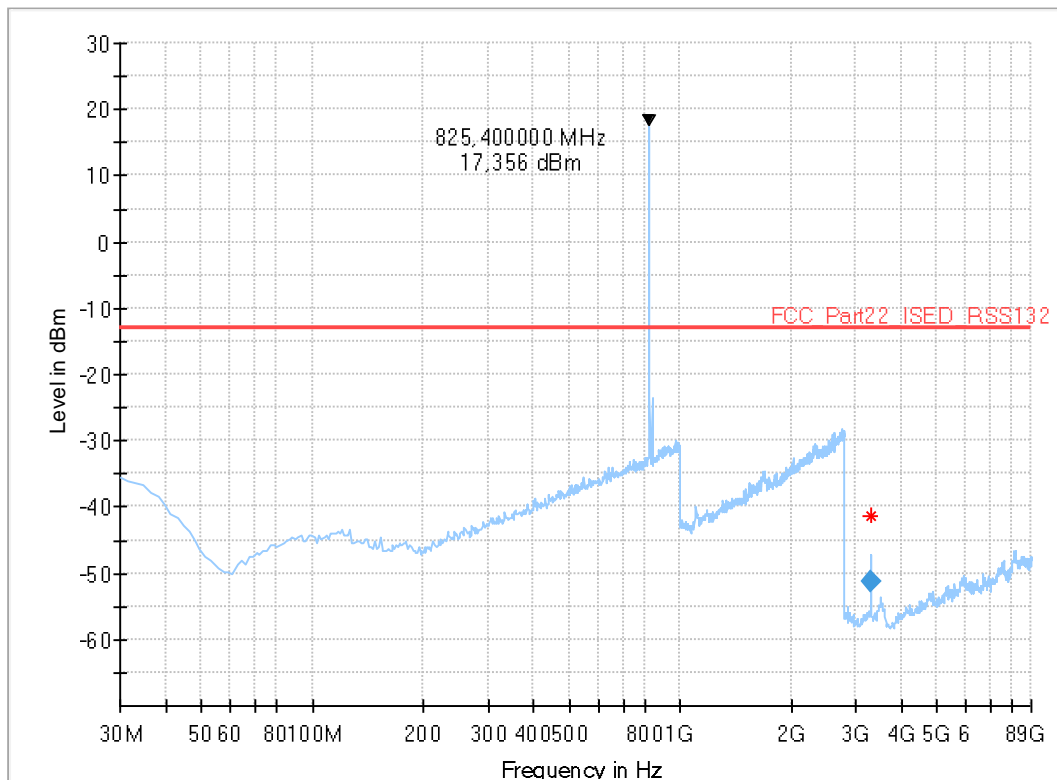
8.26_Traffic_mode_LTE_FDD_B26_CH_26865

Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 22 + 90, RSS 132, issue 3
Antenna polarisation:	vertical / horizontal
Operating Mode:	LTE_FDD41 BW=15MHz CH_26865 1RB_low QPSK
Operator:	TFra
Environmental Conditions:	Humidity : 39%rH; Temperature: 18°C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01
Full Spectrum



Remarks:

- Emission at 825.400000 MHz is Uplink frequency of LTE Band 26, not related to Result.

Final Result

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB)
3299.400000	-51.25	-13.00	38.25	100.0	100.000	155.0	H	214.0	0.0	-93

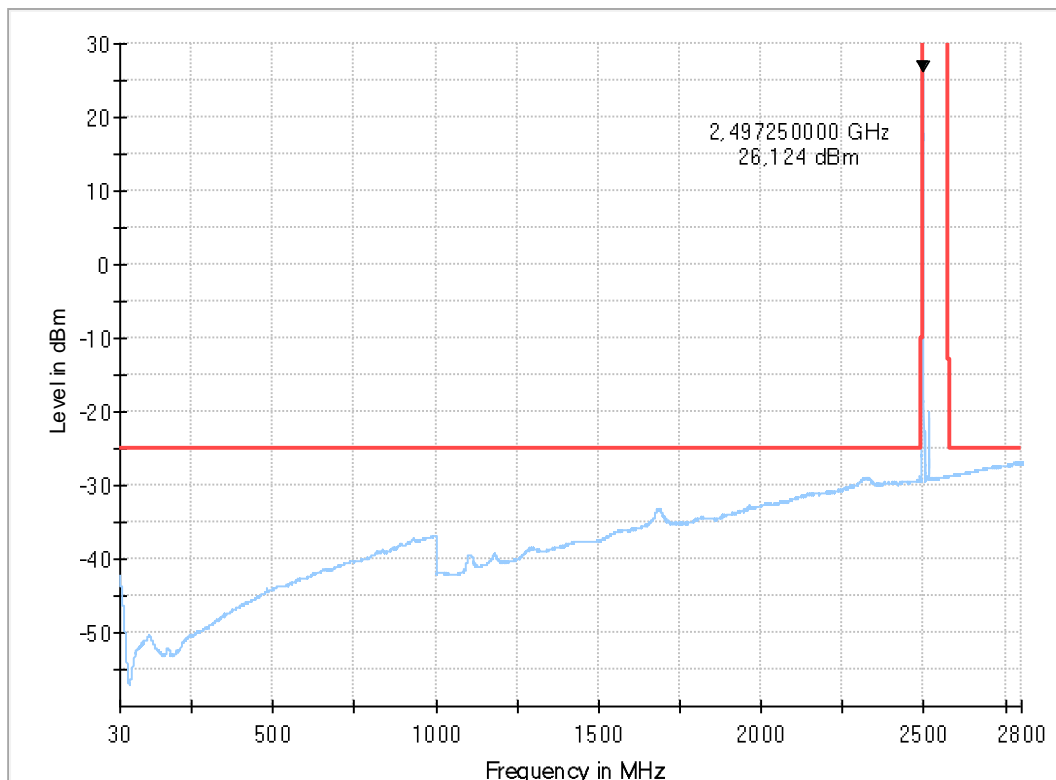
8.41a_Traffic_mode_LTE_TDD_B41_CH_39750

Common Information

Test Description:	Radiated Spurious Emissions LTE Band 41
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27, RSS 199, issue 3
Operating Mode:	LTE_TDD41 BW=20MHz CH_39750 1RB_low QPSK
Environmental Conditions::	Humidity : 38%rH; Temperature: 18°C
Test SW Version:	EMC32 V10.50.0
Operator:	TFra
Remarks:	EUT - laying/standing position
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



Remarks:

- Emission at 2.497250000 GHz is Uplink frequency of LTE Band 41, not related to Result.

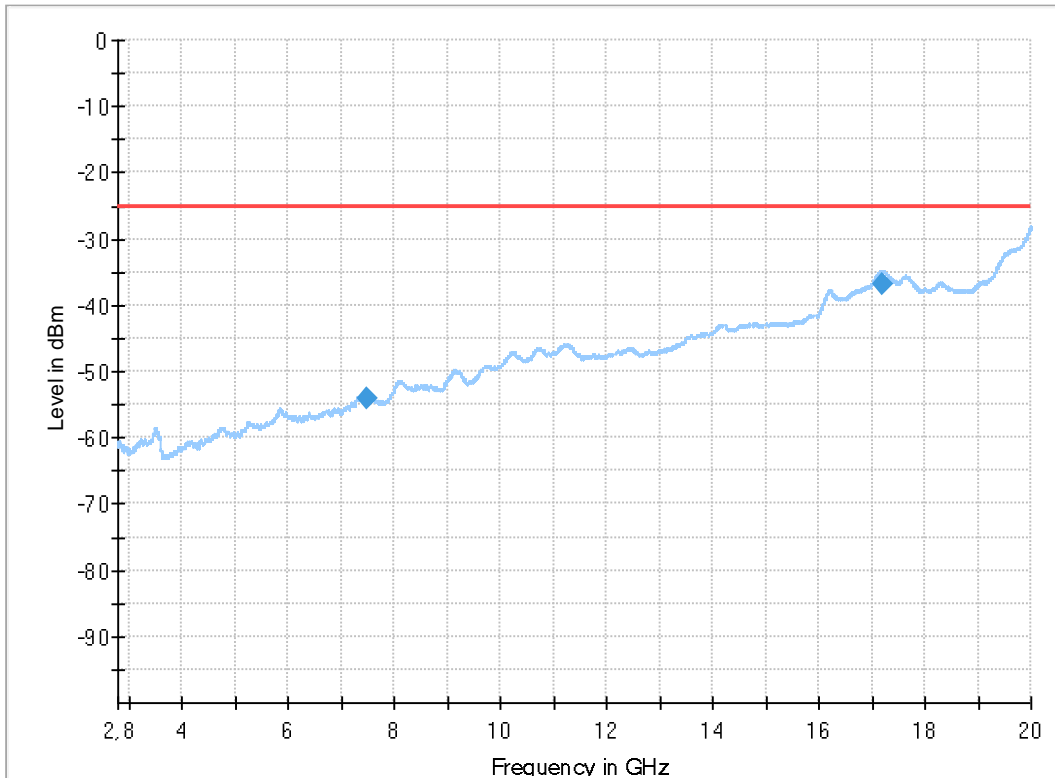
8.41b_Traffic_mode_LTE_TDD_B41_CH_39750

Common Information

Test Description: Radiated Spurious Emissions LTE Band 41
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS 199, issue 3
 Operating Mode: LTE_TDD41 | BW=20MHz | CH_39750 | 1RB_low | QPSK
 Environmental Conditions: Humidity : 38%rH; Temperature: 18°C
 Operator: TFra
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_C01
 Full Spectrum



Final Result

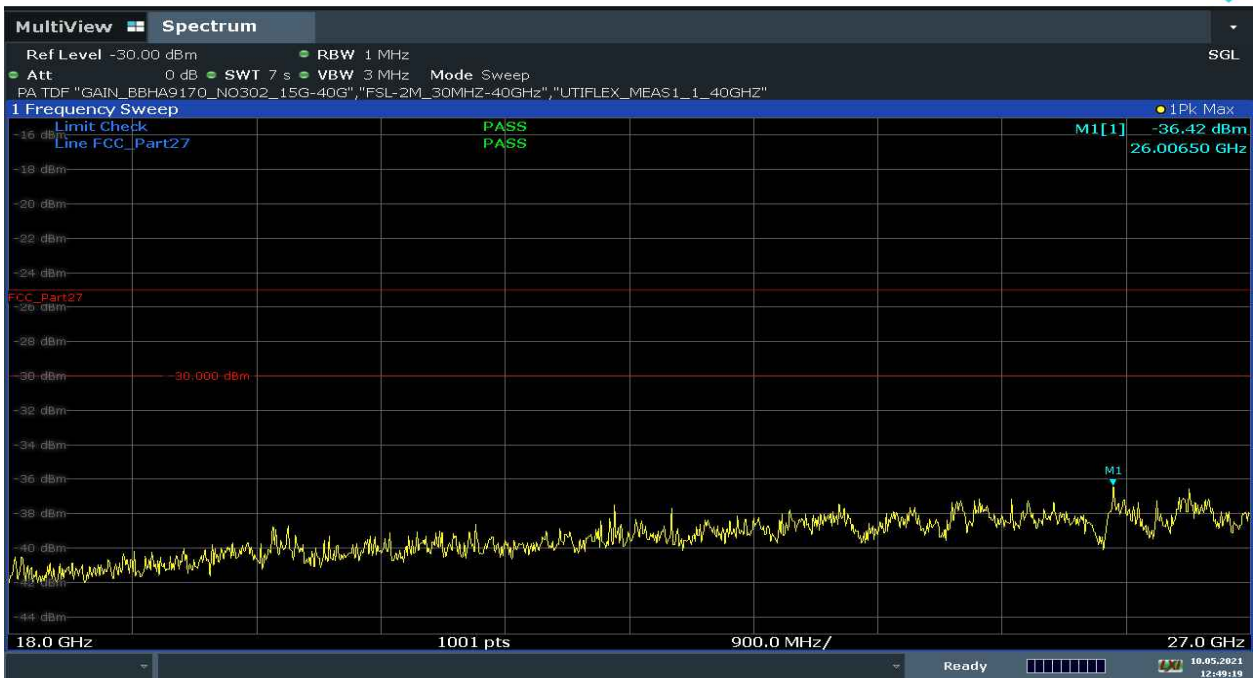
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
7491.258000	-54.14	-25.00	29.14	1000.0	1000.000	V	213.0	90.0	-82
17204.650000	-36.82	-25.00	11.82	1000.0	1000.000	H	245.0	90.0	-65

8.41c_01_RSE_B41_Ch39750_1RBLow_18_27GHz_AntV



12:21:42 10.05.2021

8.41c_01_RSE_B41_Ch39750_1RBLow_18_27GHz_AntH



12:49:20 10.05.2021

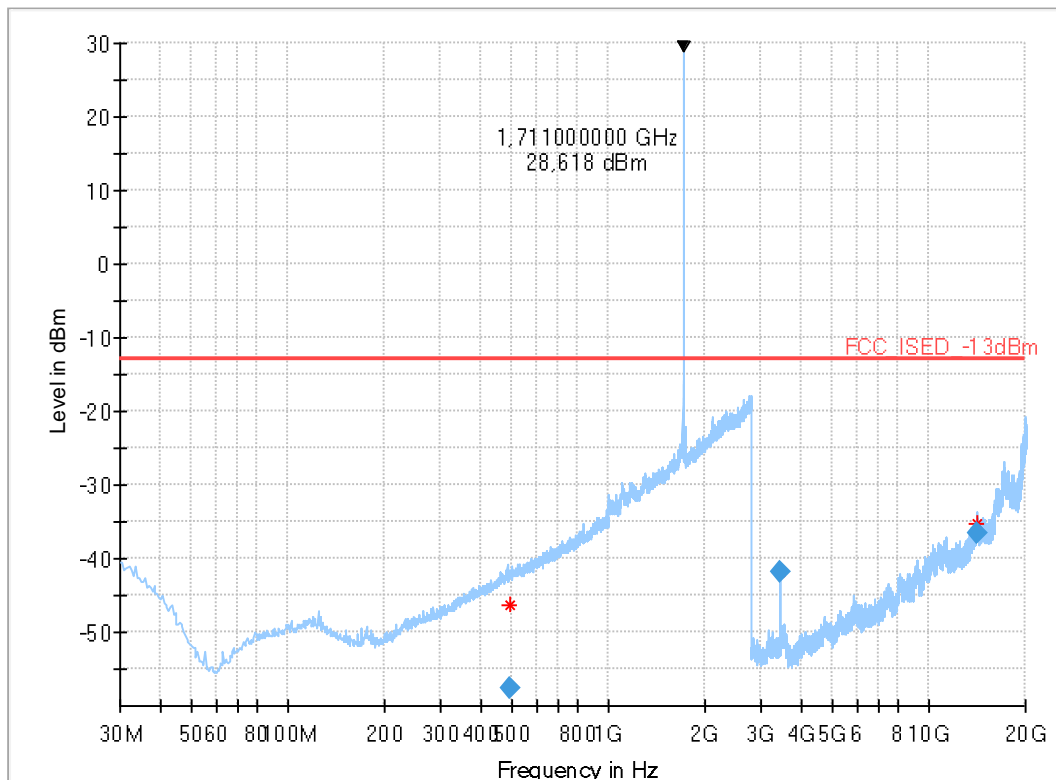
8.66_Traffic_mode_LTE_FDD_B66_CH_132072

Common Information

Test Description:	Radiated Spurious Emission
Test Site:	Fully-Anechoic Chamber
Test Standard:	FCC Part 27, RSS-139, Issue 3
Antenna polarisation:	vertical / horizontal
Measurement software version	EMC32 V10.50.0
Operating Mode:	LTE_FDD66 BW=20MHz CH_132072 1RB_low QPSK
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01
Full Spectrum



Remarks:

- Emission at 1.711000000 GHz is Uplink frequency of LTE Band 66, not related to Result.

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB)
491.775000	-57.72	-13.00	44.72	100.0	1000.000	155.0	H	303.0	0.0	-80
3422.288334	-41.89	-13.00	28.89	100.0	1000.000	155.0	H	211.0	0.0	-93
14173.416667	-36.56	-13.00	23.56	100.0	1000.000	155.0	V	292.0	90.0	-72

1.3 Radiated Band Edge

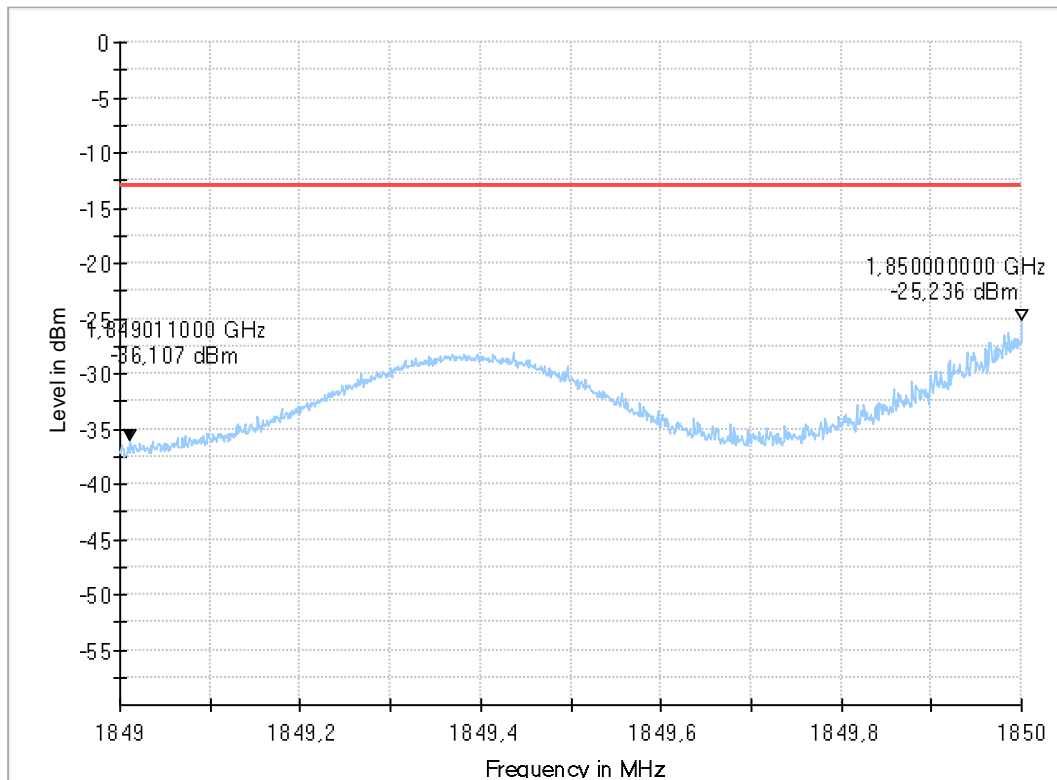
9.201_Bandedge_low_LTE_FDD_B02_CH_low_RB_1_low

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 24, RSS 133, issue 6
Test Case:	TC12.2.1
Operating Mode:	LTE_FDD_B02_CH_18700
Environmental Conditions:	Humidity : 38%rH; Temperature: 18°C
Operator:	HEI
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



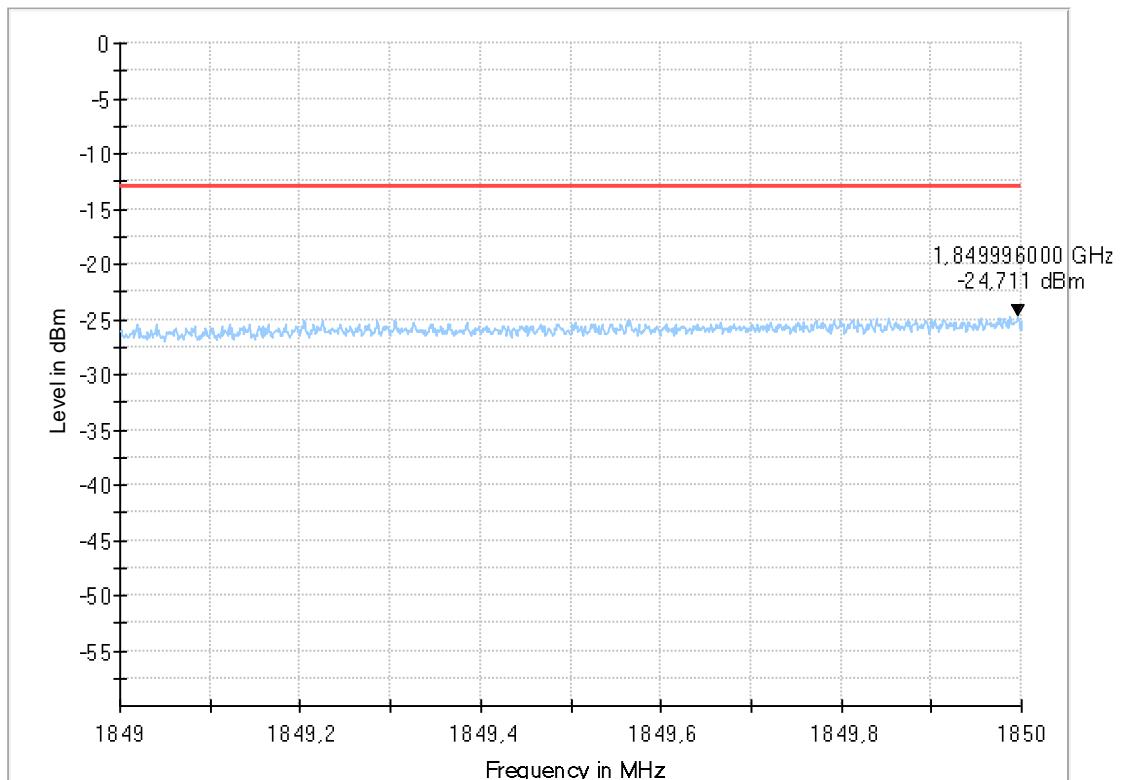
9.202_Bandedge_low_LTE_FDD_B02_CH_low_RB_Full

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 24, RSS 133, issue 6
Operating Mode:	LTE_FDD_B02_CH_18700_RB_100
Environmental Conditions:	Humidity : 38%rH; Temperature: 18°C
Operator:	HEI
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



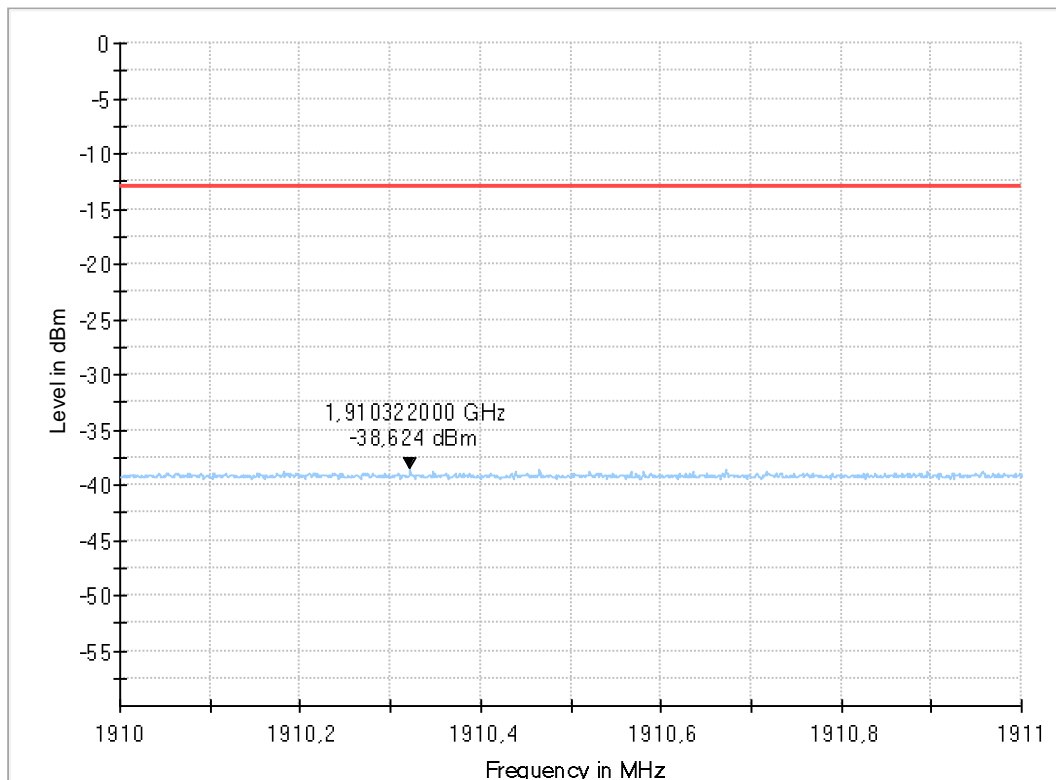
9.203_Bandedge_high_LTE_FDD_B02_CH_high_RB_1_high

Common Information

Test Description:	Band-Edge - Radiated Spurious Emissions
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 24, RSS 133, issue 6
Operating Mode:	LTE_FDD_B02_CH_19100_RB_1
Environmental Conditions::	Humidity : 38%rH; Temperature: 18°C
Operator:	HEI
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



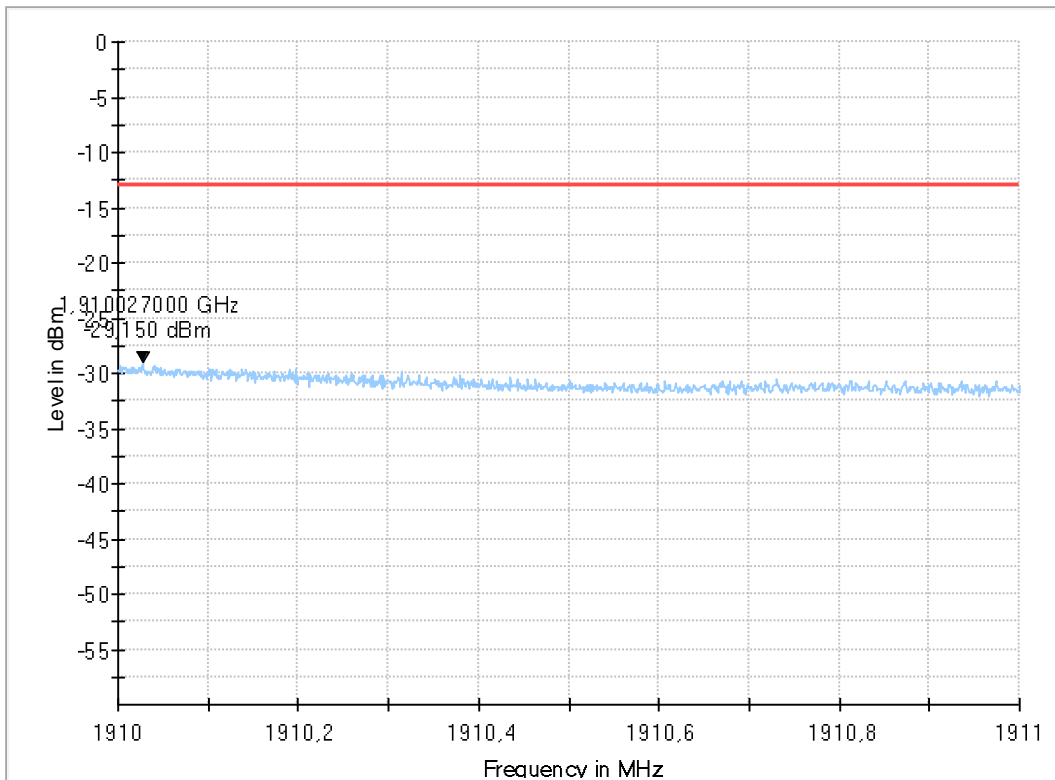
9.204_Bandedge_high_LTE_FDD_B02_CH_high_RB_Full

Common Information

Test Description:	Band-Edge high - Radiated Spurious Emissions LTE Band 2
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 24, RSS 133, issue 6
Operating Mode:	LTE_FDD_B02_CH_19100_RB_100
Environmental Conditions:	Humidity : 38%rH; Temperature: 18°C
Operator:	HEI
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	20-1-01707S05_C01
	Full Spectrum



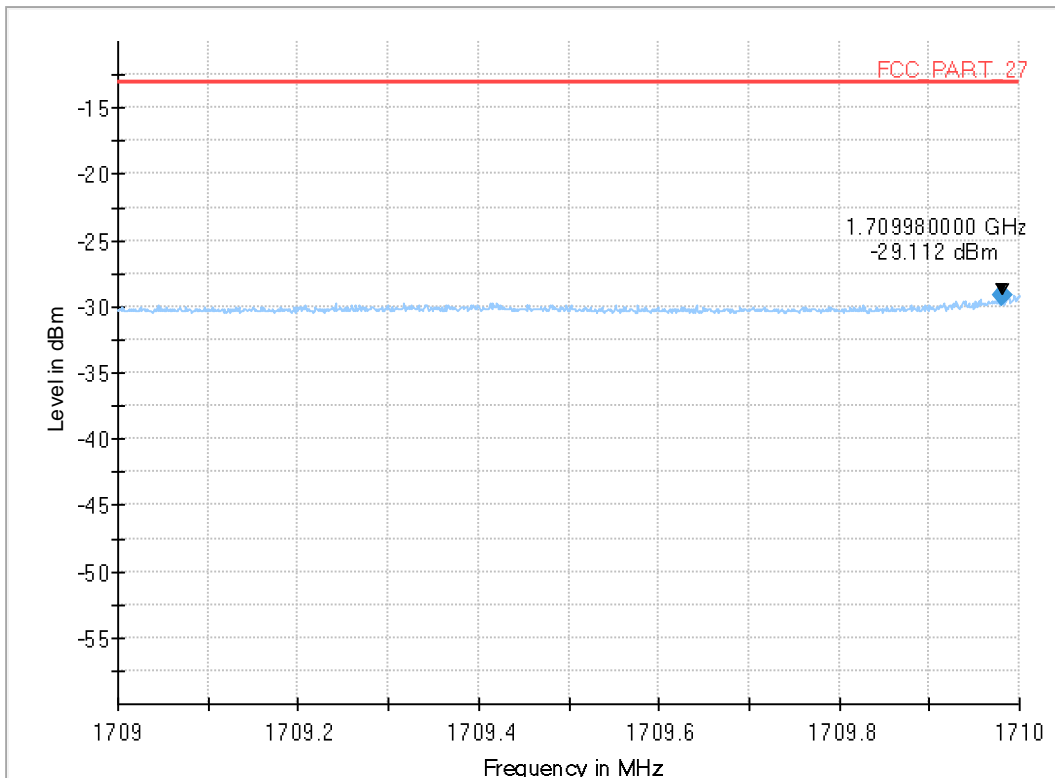
9.401_Bandedge_low_LTE_FDD_B04_CH_low_RB_1_low

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Operating Mode: LTE_FDD04 | BW=20MHz | CH_20050 |RB:1|Low |QPSK
 Environmental Conditions: Humidity : 55%rH; Temperature: 20°C
 Operator: Aho
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
1709.980000	-29.11	-13.00	16.11	700.0	200.000	H	293.0	0.0	-62

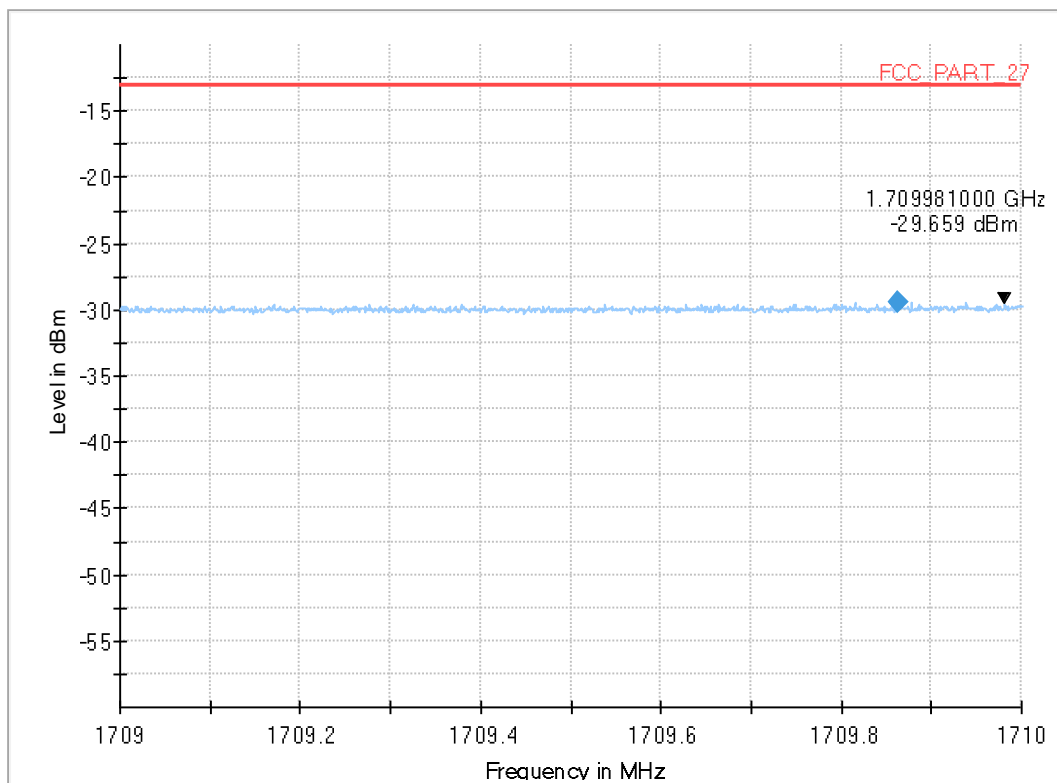
9.402_Bandedge_low_LTE_FDD_B04_CH_low_RB_Full

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Test Case: Band-Edge low
 Operating Mode: LTE_FDD04 | BW=20MHz | CH_20050 | RB:100 | QPSK
 Environmental Conditions: Humidity : 55%rH; Temperature: 20°C
 Operator: Aho
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
1709.864000	-29.43	-13.00	16.43	700.0	200.000	H	305.0	90.0	-62

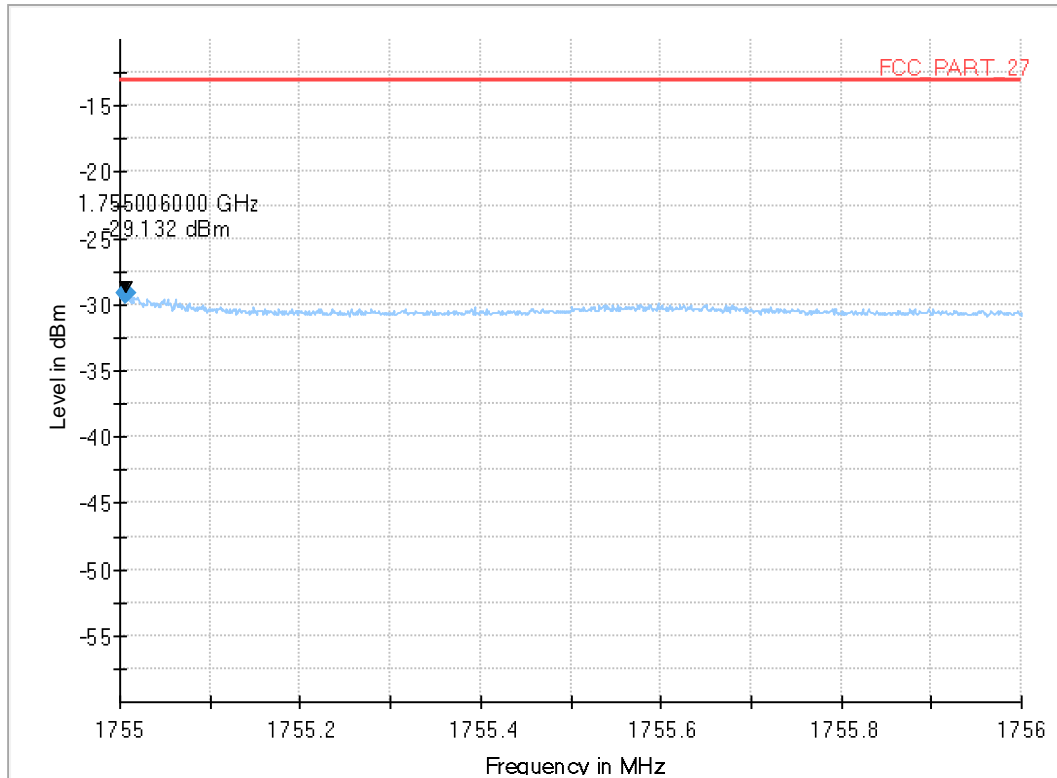
9.403_Bandedge_high_LTE_FDD_B04_CH_high_RB_1_high

Common Information

Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Test Case: Band-Edge high
 Operating Mode: LTE_FDD04 | BW=20MHz | CH_20300 |RB:1|High|QPSK
 Environmental Conditions: Humidity : 55%rH; Temperature: 20°C
 Operator: Aho
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
1755.006000	-29.13	-13.00	16.13	700.0	200.000	H	298.0	90.0	-62

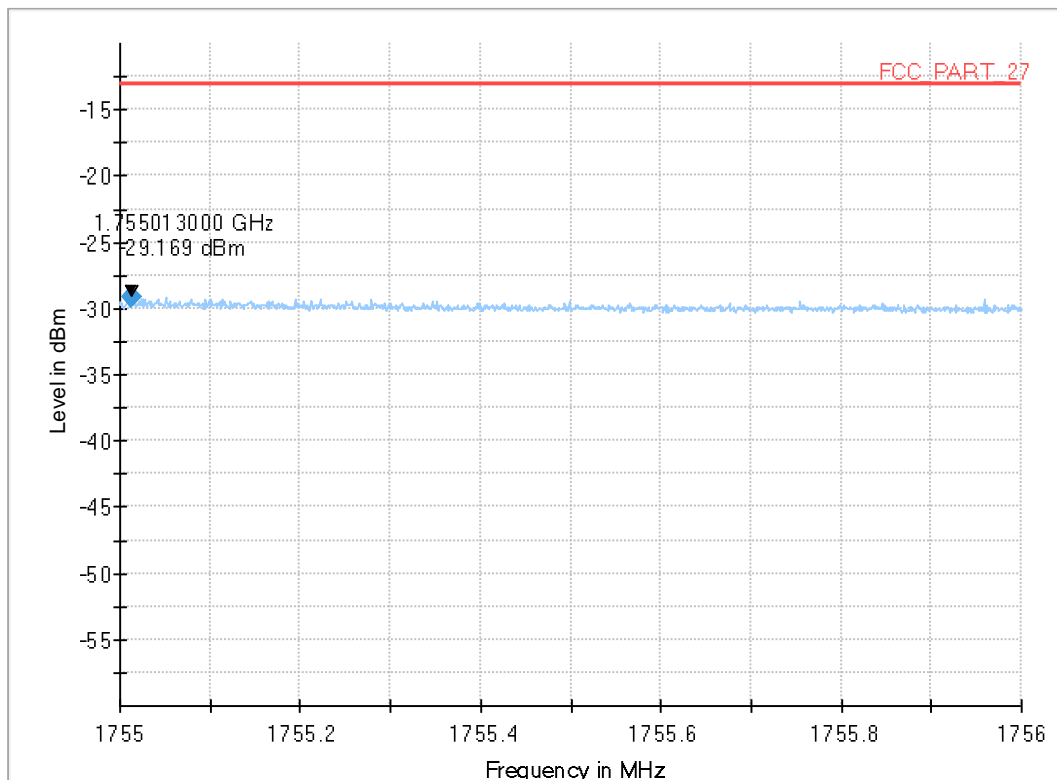
9.404_Bandedge_high_LTE_FDD_B04_CH_high_RB_Full

Common Information

Test Description: Band-Edge high - Radiated Spurious Emissions LTE Band 4
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Test Case: Band-Edge high
 Operating Mode: LTE_FDD04 | BW=20MHz | CH_20300 | RB:100 | QPSK
 Environmental Conditions: Humidity : 55%rH; Temperature: 20°C
 Operator: Aho
 EUT Setup: 1
 Verdict: Passed
 Comment:

EUT Information

PMT number: 20-1-01707S05_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)
1755.013000	-29.17	-13.00	16.17	700.0	200.000	H	302.0	90.0	-62

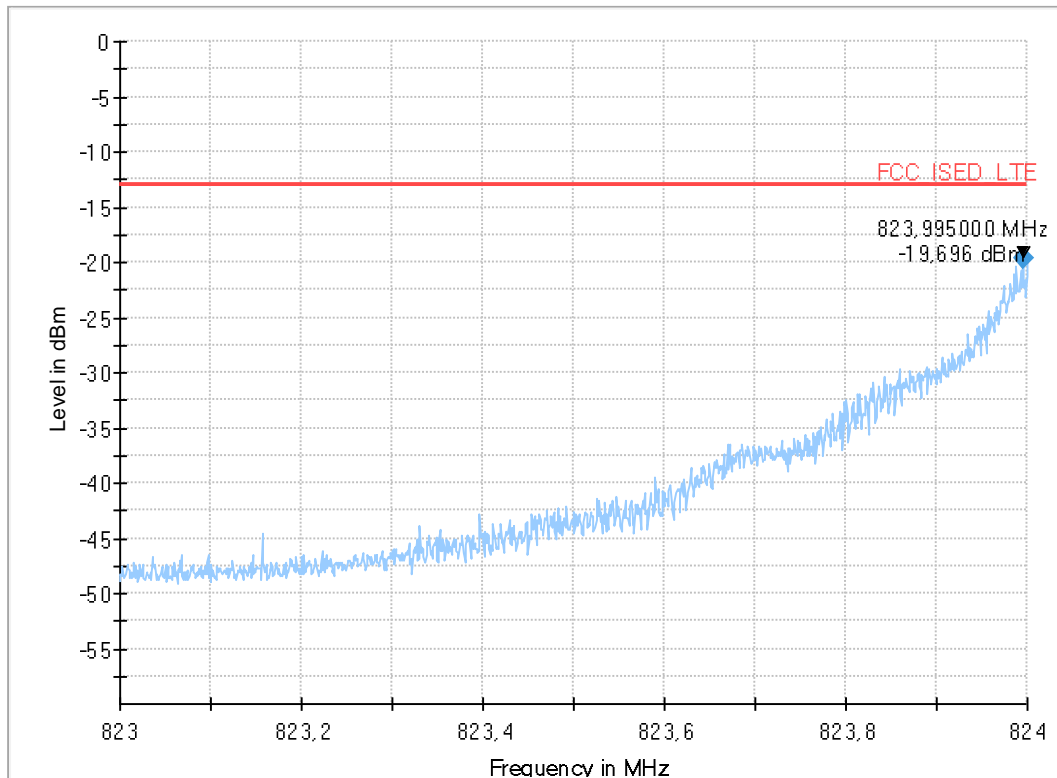
9.501_Bandedge_low_LTE_FDD_B05_CH_low_RB_1_low

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC Part 22, RSS 132, issue 3
 Operating Mode: LTE_FDD05 | BW=5MHz | CH_20425 |RB:1|Low|QPSK
 Environmental Conditions: Humidity : 55%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: 20-1-01707S05_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)
823.995000	-19.70	-13.00	6.70	700.0	50.000	H	25.0	90.0	-76

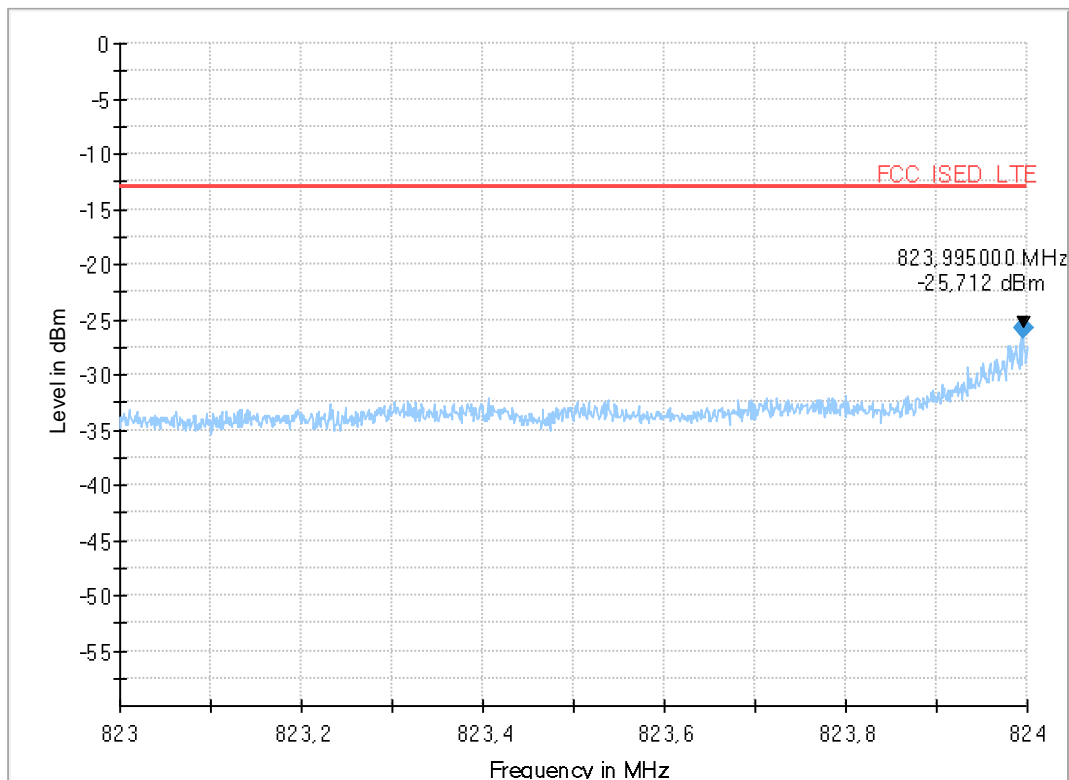
9.502_Bandedge_low_LTE_FDD_B05_CH_low_RB_Full

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
 Test Standard: FCC Part 22, RSS 132, issue 3
 Operating Mode: LTE_FDD05 | BW=5MHz | CH_20425 |RB:25|QPSK
 Environmental Conditions: Humidity : 55%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: 20-1-01707S05_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)
823.995000	-25.71	-13.00	12.71	700.0	50.000	H	22.0	90.0	-76

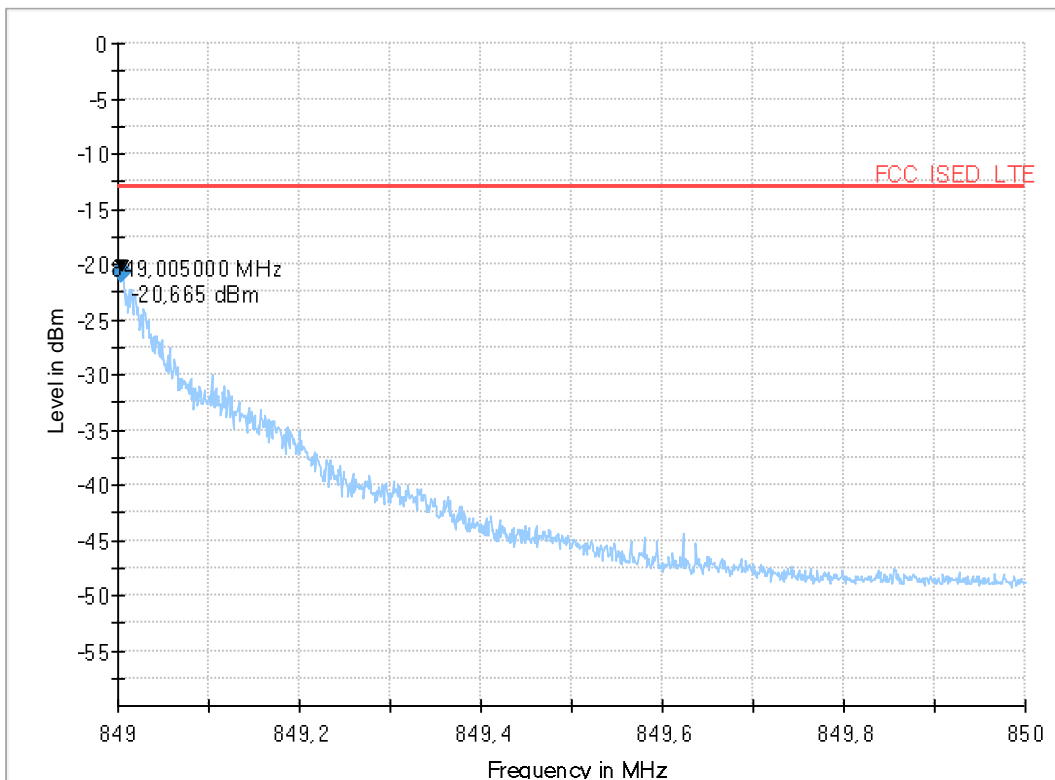
9.503_Bandedge_low_LTE_FDD_B05_CH_high_RB_1_high

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 22, RSS 132, issue 3
Operating Mode:	LTE_FDD05 BW=5MHz CH_20625 RB:1 High QPSK
Environmental Conditions::	Humidity : 55%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:	20-1-01707S05_C01
	Full Spectrum



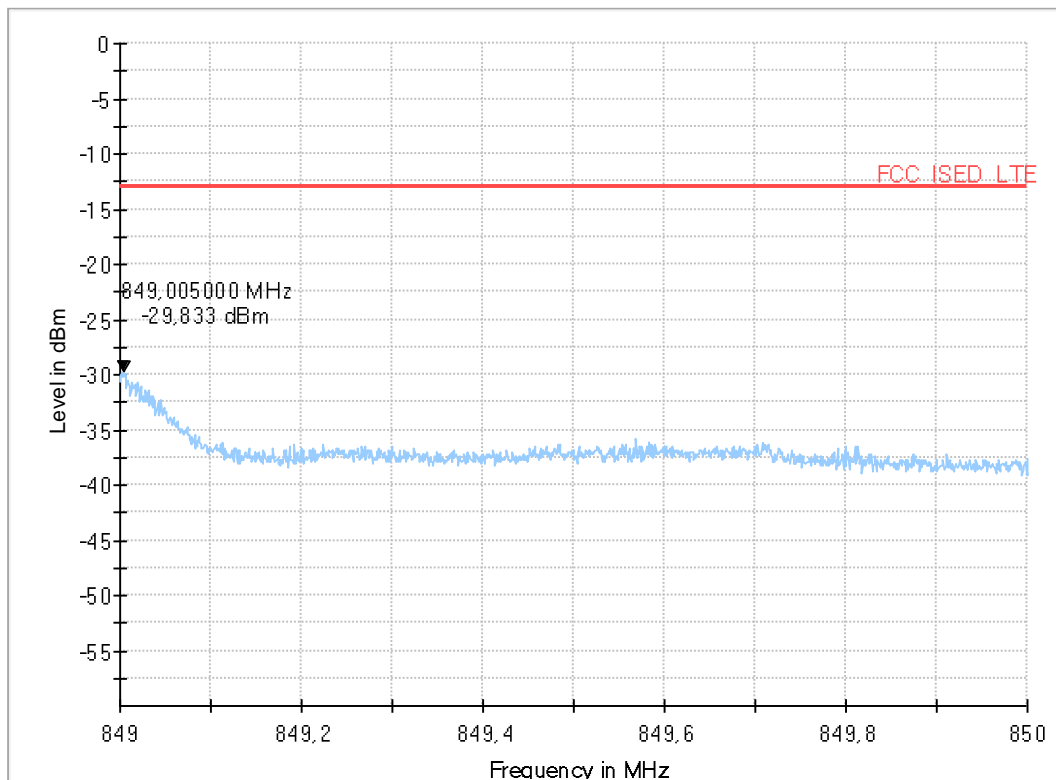
9.504_Bandedge_high_LTE_FDD_B05_CH_high_RB_Full

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC Part 22, RSS 132, issue 3
Operating Mode:	LTE_FDD05 BW=5MHz CH_20625 RB:25 QPSK
Environmental Conditions::	Humidity : 55%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:	20-1-01707S05_C01
	Full Spectrum



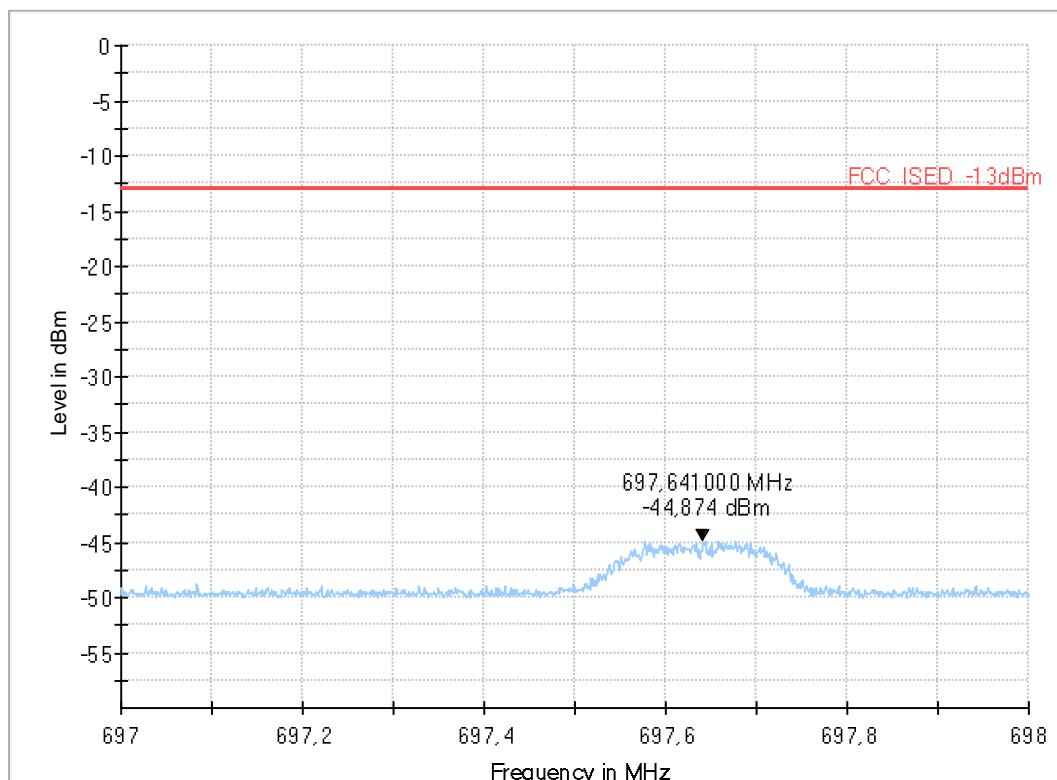
9.1201_Bandedge_low_LTE_FDD_B12_CH_low_RB_1_low

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27, RSS 130, issue 2
Operating Mode:	LTE_FDD_B012_CH_23035_BW:5MHz_RB:1_High
Environmental Conditions:	Humidity : 38%rH; Temperature: 17°C
Test SW Version:	EMC32 V10.50.0
Operator:	HEI
Remarks:	EUT - laying/standing position
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01
Full Spectrum



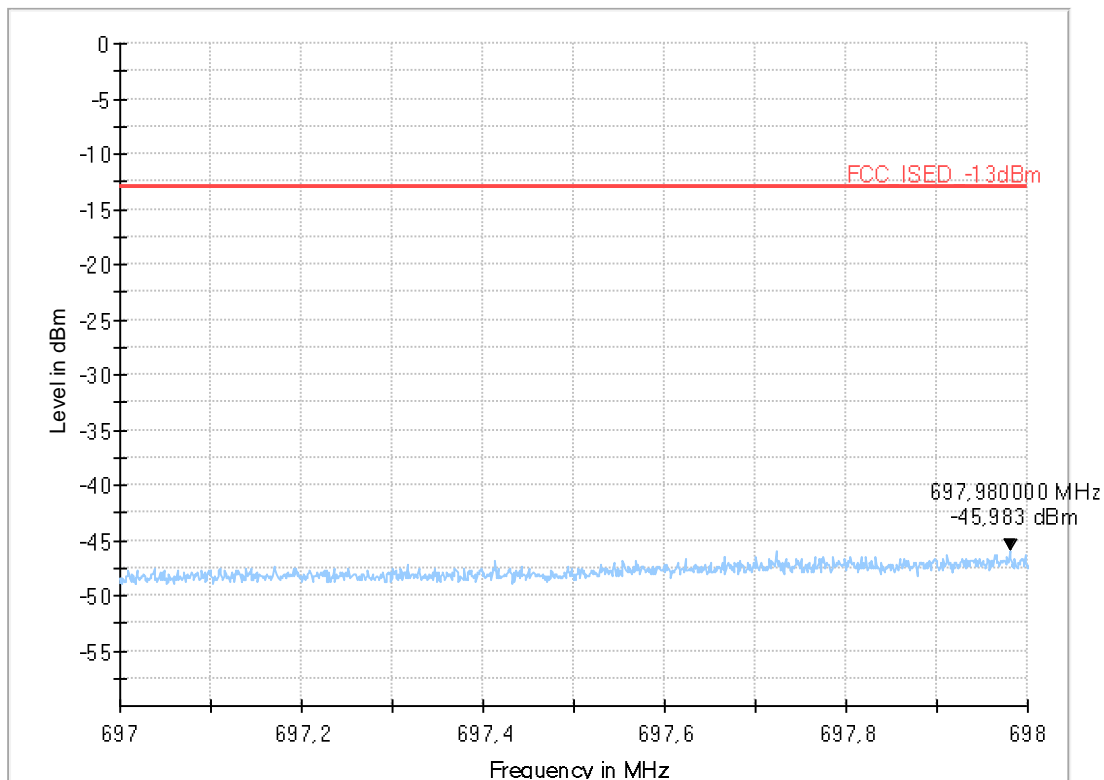
9.1202_Bandedge_low_LTE_FDD_B12_CH_low_RB_Full

Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions LTE Band 5
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 27, RSS 130, issue 2
Operating Mode:	LTE_FDD_B012_CH_23035_BW:5MHz_RB:25_High
Environmental Conditions:	Humidity : 35%rH; Temperature: 18°C
Test SW Version:	EMC32 V10.50.0
Operator:	HEI
Remarks:	EUT - laying/standing position
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number: 20-1-01707S05_C01
Full Spectrum



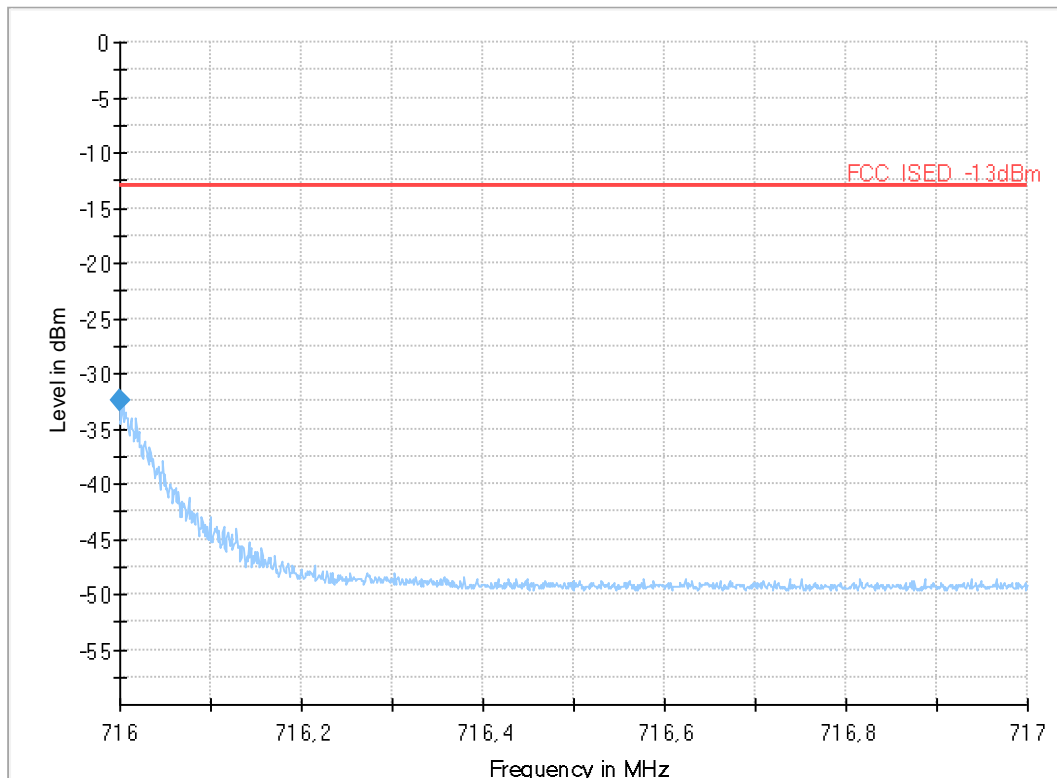
9.1203_Bandedge_high_LTE_FDD_B12_CH_high_RB_1_high

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS 130, issue 2
 Operating Mode: LTE_FDD_B012_CH_23155_BW:5MHz_RB:25_High
 Environmental Conditions: Humidity : 38%rH; Temperature: 17°C
 Test SW Version: EMC32 V10.50.0
 Operator: HEI
 Remarks: EUT - laying/standing position
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
716.000000	-32.41	-13.00	19.41	700.0	50.000	H	29.0	90.0	-76

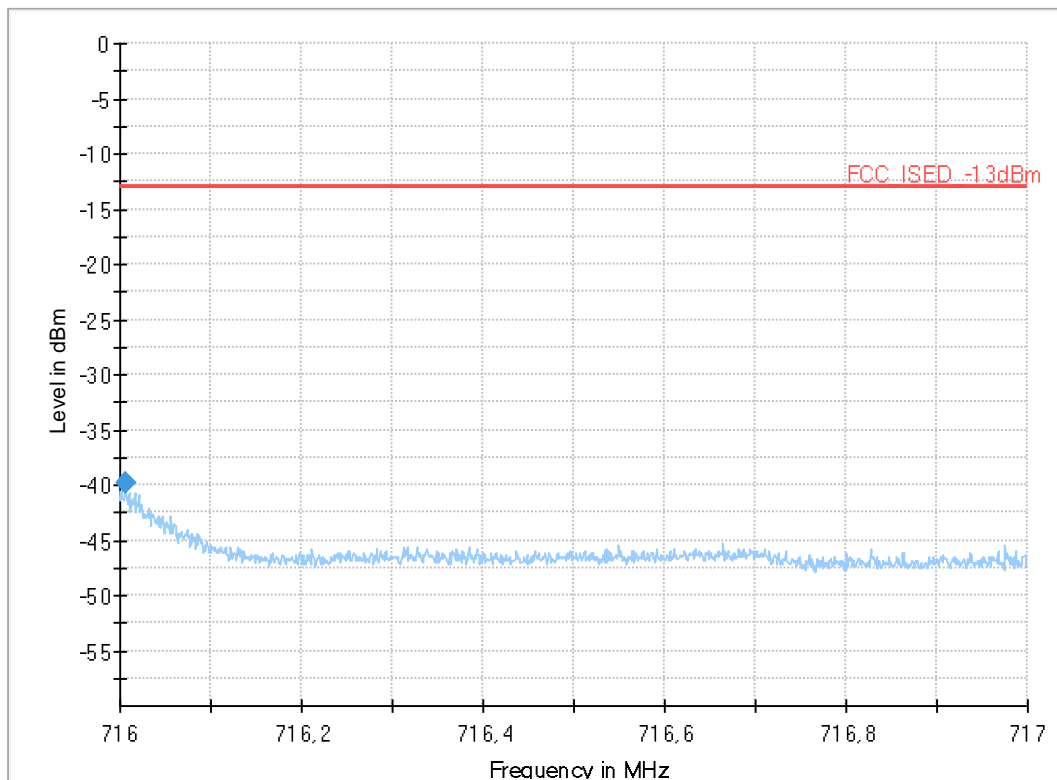
9.1204_Bandedge_high_LTE_FDD_B12_CH_high_RB_Full

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS 130, issue 2
 Operating Mode: LTE_FDD_B012_CH_23155_BW:5MHz_RB:25_High
 Environmental Conditions: Humidity : 38%rH; Temperature: 18°C
 Test SW Version: EMC32 V10.50.0
 Operator: HEI
 Remarks: EUT - laying/standing position
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
716.006000	-39.80	-13.00	26.80	700.0	50.000	H	37.0	90.0	-76

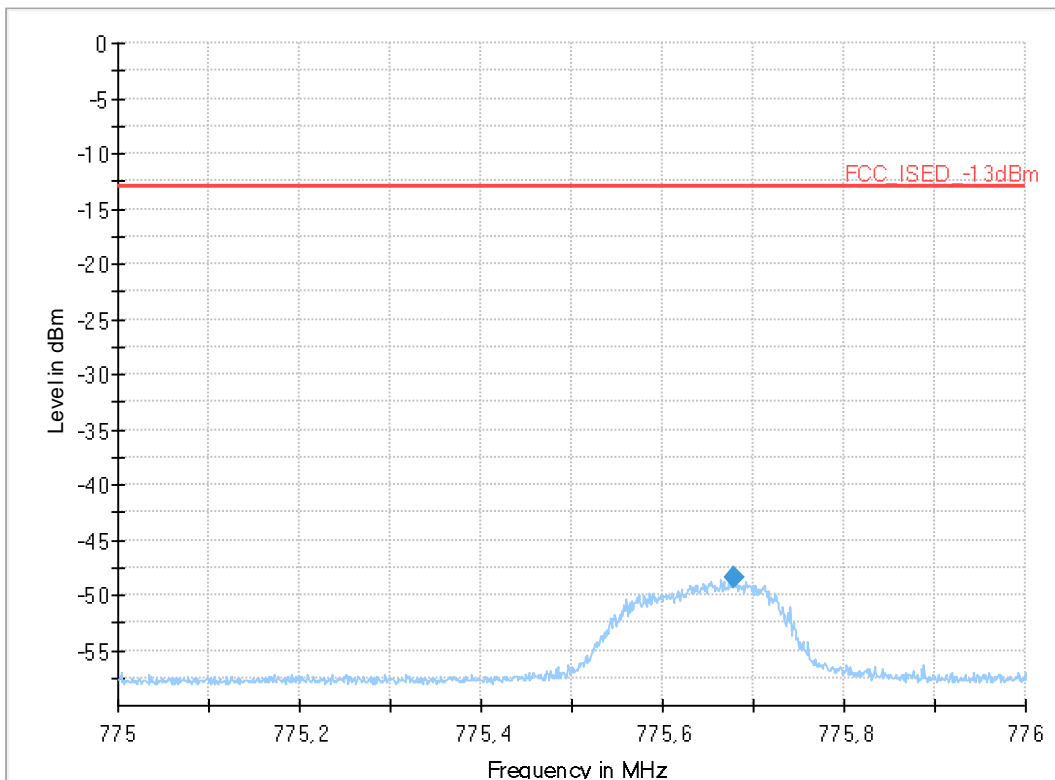
9.1301_Bandedge_low_LTE_FDD_B13_CH_low_RB_1_low

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS 130, issue 2
 Operating Mode: LTE_FDD_13 | UL_23205 (779,5MHz) | DL_5205 (748,5MHz) | 1RB_low | BW_5MHz
 Environmental Conditions: Humidity : 44%rH; Temperature: 19°C
 Test SW Version: EMC32 V10.50.0
 Operator: TFra
 Remarks: EUT - laying/standing position
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
775.678000	-48.47	-13.00	35.47	700.0	50.000	H	324.0	0.0	-75

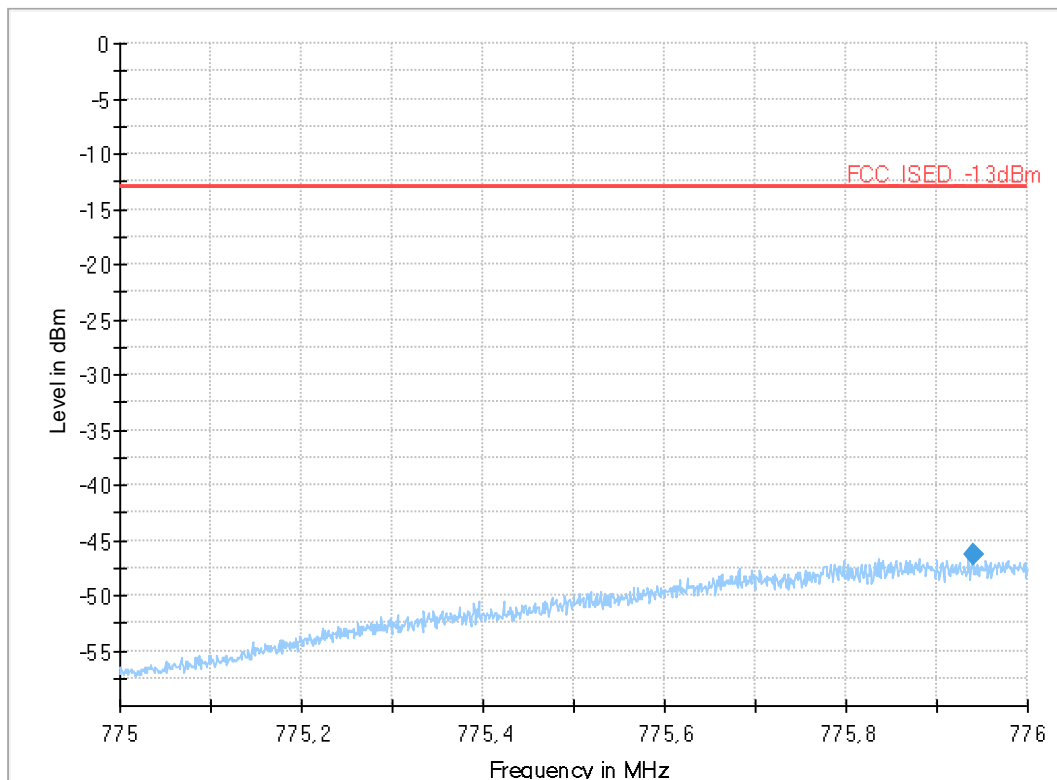
9.1302_Bandedge_low_LTE_FDD_B13_CH_low_RB_full

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS 130, issue 2
 Operating Mode: LTE_FDD13 | BW=5MHz | CH_23205 | 25RB_low | QPSK
 Environmental Conditions: Humidity : 38%rH; Temperature: 18°C
 Test SW Version: EMC32 V10.50.0
 Operator: TFra
 Remarks: EUT - laying/standing position
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
775.940000	-46.37	-13.00	33.37	700.0	50.000	H	54.0	0.0	-75

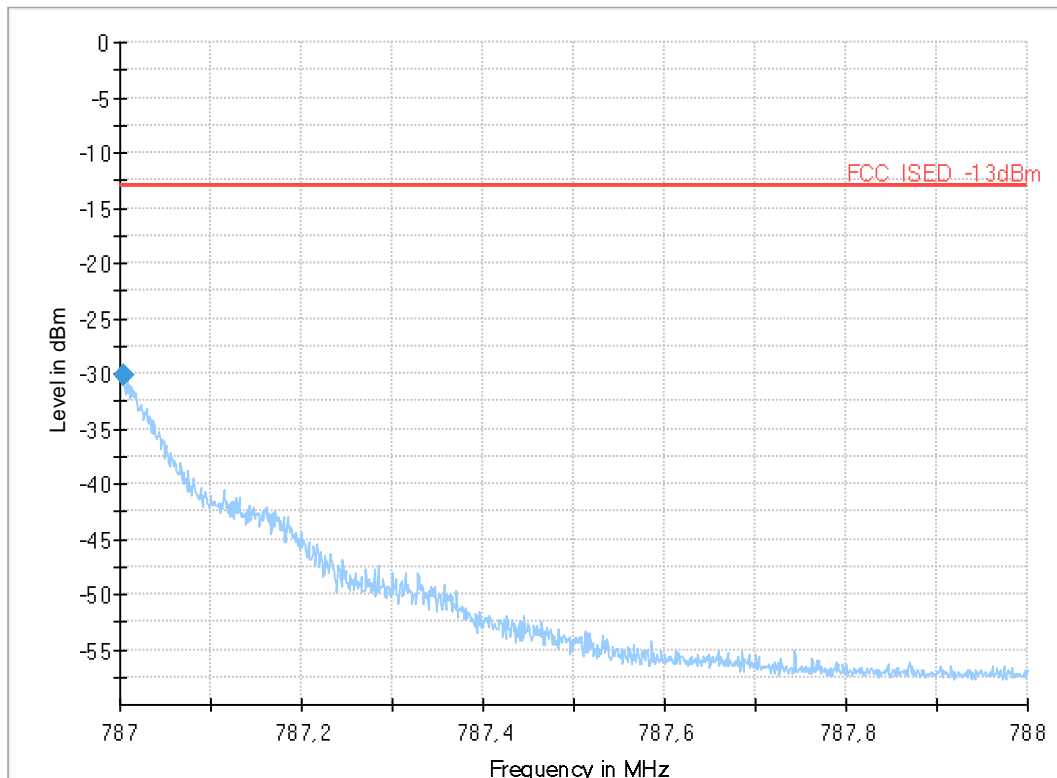
9.1303_Bandedge_high_LTE_FDD_B13_CH_high_RB_1_high

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS 130, issue 2
 Operating Mode: LTE_FDD13 | BW=5MHz | CH_23255 | 25RB_high | QPSK
 Environmental Conditions: Humidity : 38%rH; Temperature: 18°C
 Test SW Version: EMC32 V10.50.0
 Operator: TFra
 Remarks: EUT - laying/standing position
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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	-30.21	-13.00	17.21	700.0	50.000	H	41.0	0.0	-75

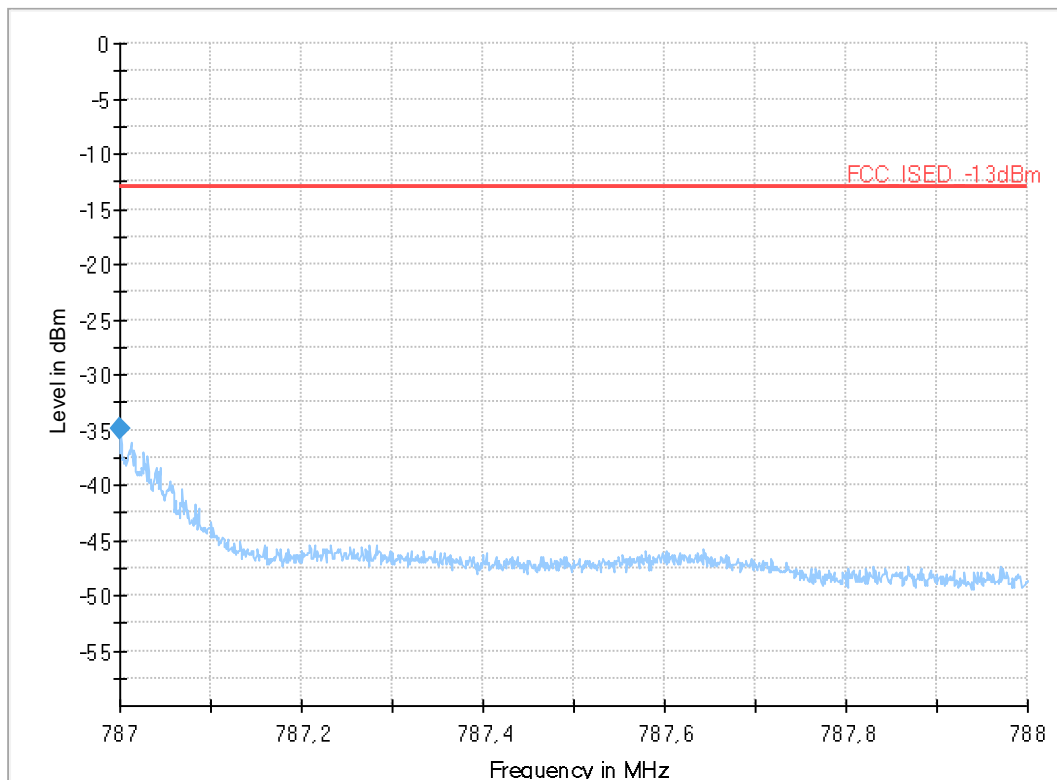
9.1304_Bandedge_high_LTE_FDD_B13_CH_high_RB_Full

Common Information

Test Description: Band-Edge low - Radiated Spurious Emissions LTE Band 5
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS 130, issue 2
 Operating Mode: LTE_FDD13 | BW=5MHz | CH_23255 | 25RB_high | QPSK
 Environmental Conditions: Humidity : 38%rH; Temperature: 19°C
 Test SW Version: EMC32 V10.50.0
 Operator: TFra
 Remarks: EUT - laying/standing position
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 20-1-01707S05_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)
787.001000	-34.91	-13.00	21.91	700.0	50.000	H	48.0	0.0	-75

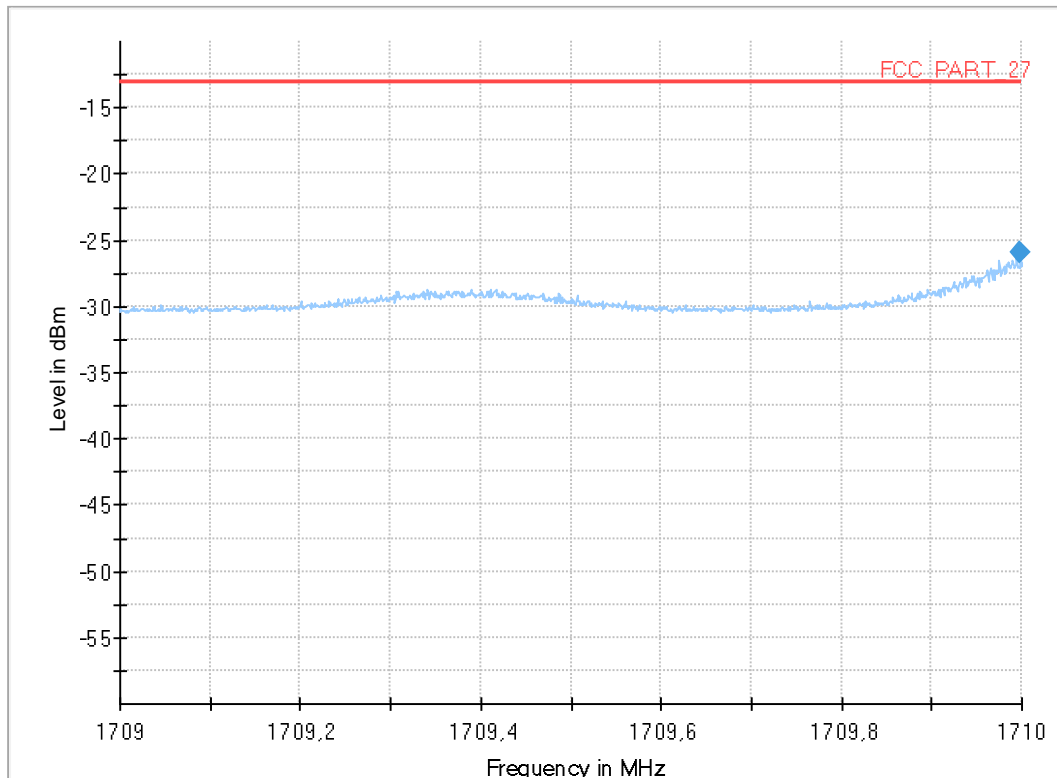
9.6601_Bandedge_low_LTE_FDD_B66_CH_low_RB_1_low

Common Information

Test Description: Radiated Spurious Emissions - Band-Edge LTE Band 66 (§27.53h)
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Comm. Link: LTE Band 66 (1710-1780MHz)
 Operating Mode: MS allocated channel xxx
 Exclusionband: --
 Environmental Conditions: Humidity: 39 %rH; Temperature: 19°C
 Operator: TFra
 EUT Setup:
 Verdict: Passed

EUT Information

Sample: 20-1-01707S05_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)
1709.998000	-25.95	-13.00	12.95	700.0	200.000	H	86.0	0.0	-63

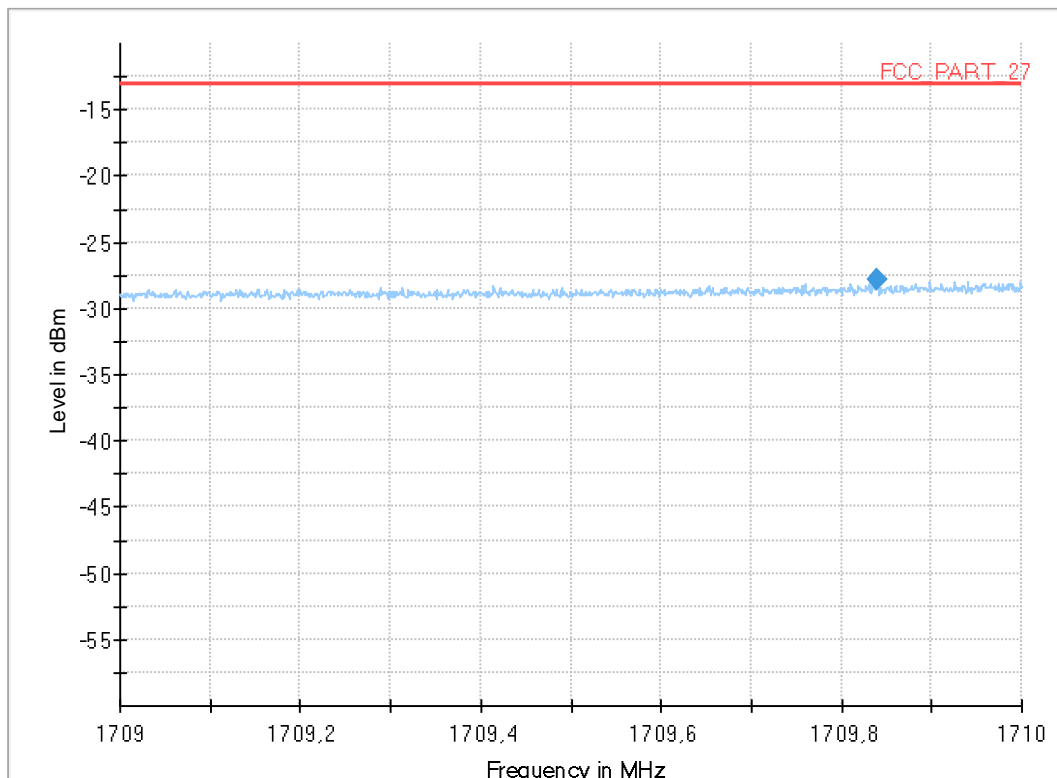
9.6602_Bandedge_low_LTE_FDD_B66_CH_low_RB_Full

Common Information

Test Description: Radiated Spurious Emissions - Band-Edge LTE Band 66 (§27.53h)
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Comm. Link: LTE Band 66 (1710-1780MHz)
 Operating Mode: MS allocated channel xxx
 Exclusionband: --
 Environmental Conditions: Humidity: 39 %rH; Temperature: 19°C
 Operator: TFra
 EUT Setup:
 Verdict: Passed

EUT Information

Sample: 20-1-01707S05_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)
1709.839000	-27.87	-13.00	14.87	700.0	200.000	H	87.0	0.0	-63

9.6603_Bandedge_high_LTE_FDD_B66_CH_high_RB_1_high

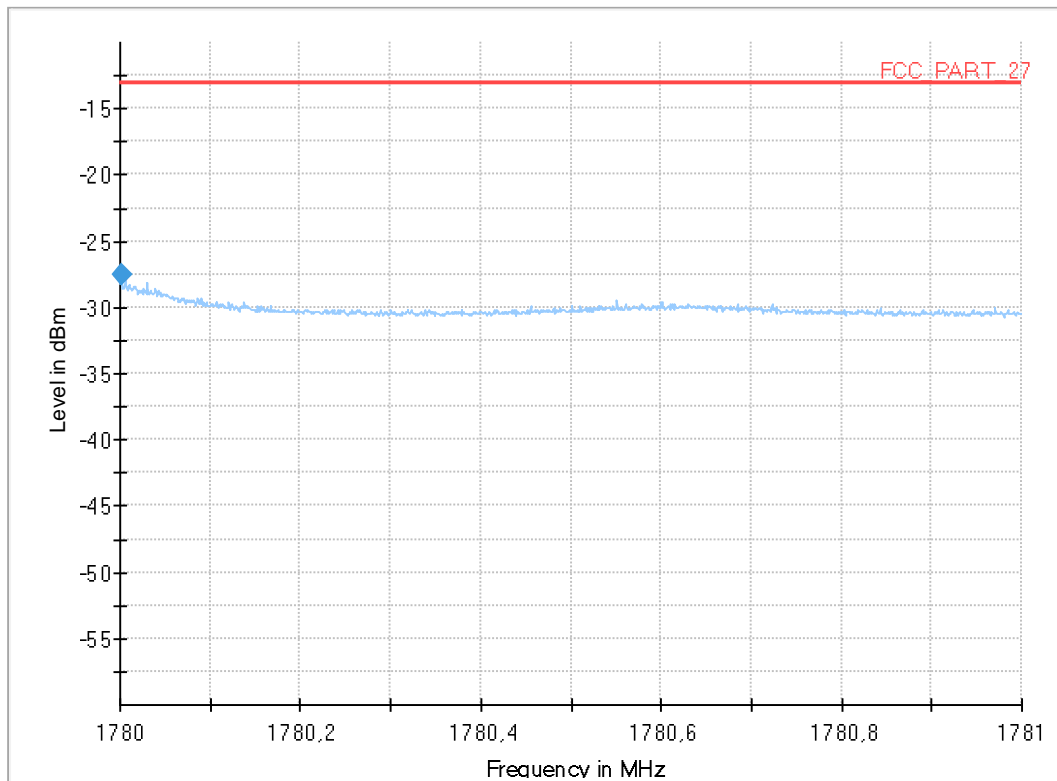
Common Information

Test Description: Radiated Spurious Emissions - Band-Edge LTE Band 66 (§27.53h)
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Comm. Link: LTE Band 66 (1710-1780MHz)
 Operating Mode: MS allocated channel xxx
 Exclusionband: --
 Environmental Conditions: Humidity: 39 %rH; Temperature: 19°C
 Operator: TFra
 EUT Setup:
 Verdict: Passed

EUT Information

Sample: 20-1-01707S05_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)
1780.002000	-27.61	-13.00	14.61	700.0	200.000	V	177.0	90.0	-63

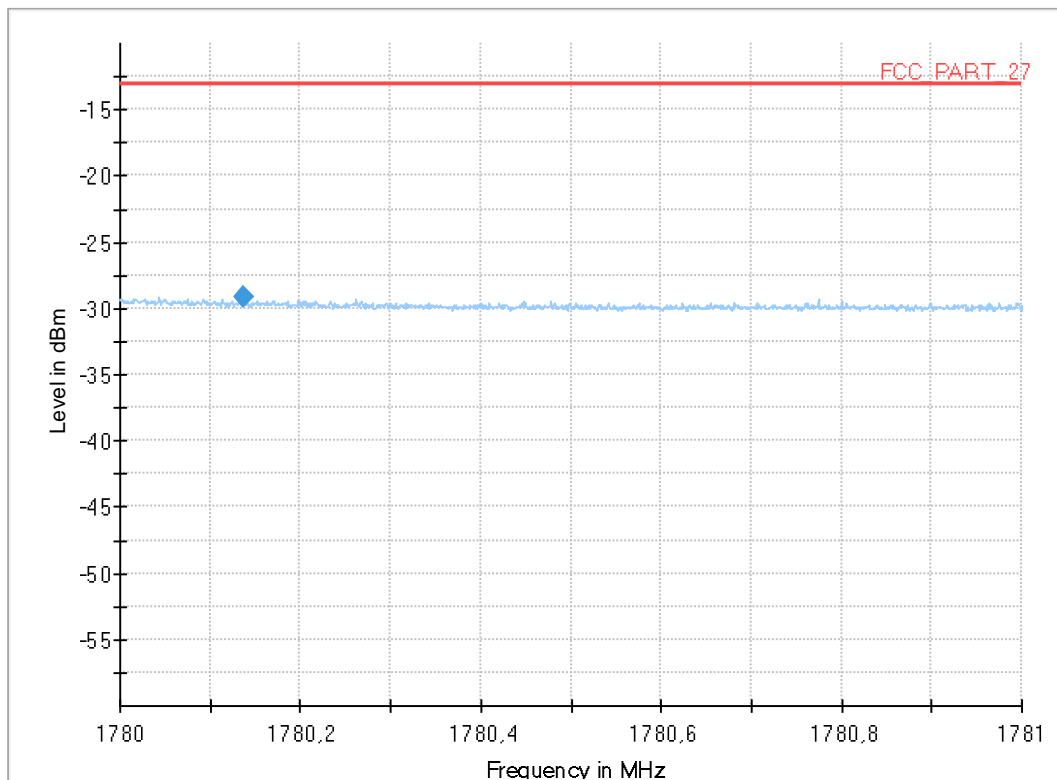
9.6604_Bandedge_high_LTE_FDD_B66_CH_high_RB_Full

Common Information

Test Description: Radiated Spurious Emissions - Band-Edge LTE Band 66 (§27.53h)
 Test Site Location: CETECOM GmbH Essen
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC Part 27, RSS-139, Issue 3
 Comm. Link: LTE Band 66 (1710-1780MHz)
 Operating Mode: MS allocated channel xxx
 Exclusionband: --
 Environmental Conditions: Humidity: 39 %rH; Temperature: 19°C
 Operator: TFra
 EUT Setup:
 Verdict: Passed

EUT Information

Sample: 20-1-01707S05_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)
1780.136000	-29.11	-13.00	16.11	700.0	200.000	H	240.0	0.0	-63

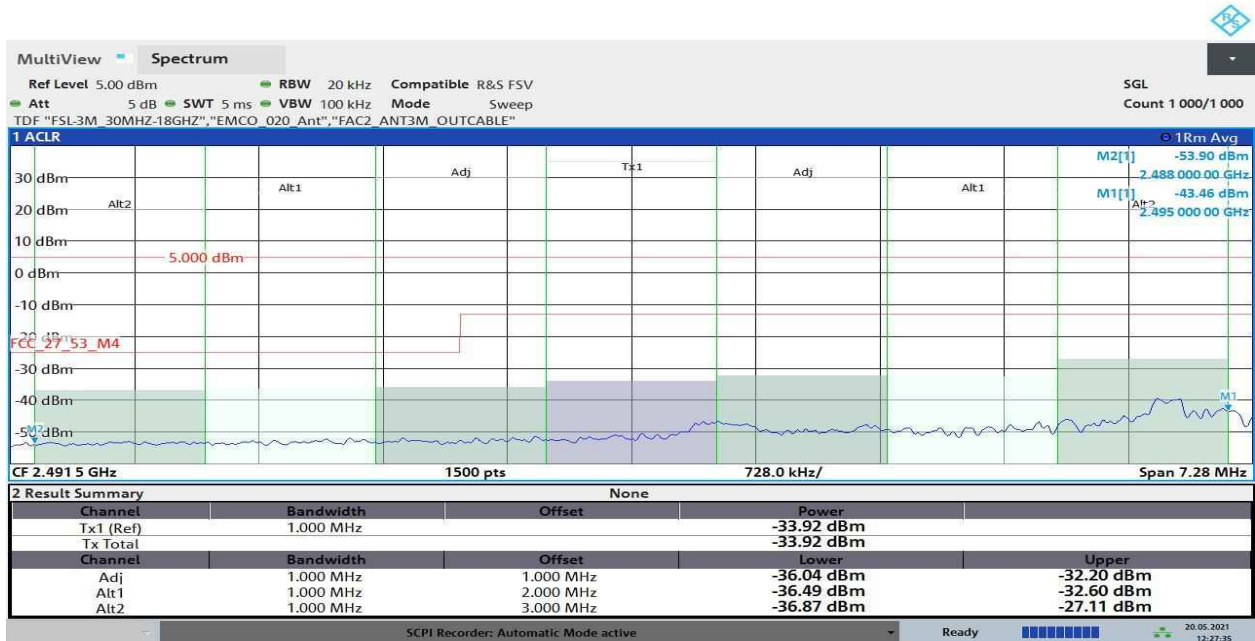
1.4 Radiated band-edge, LTE Band 41

1.4.1 LTE Band 41 Low



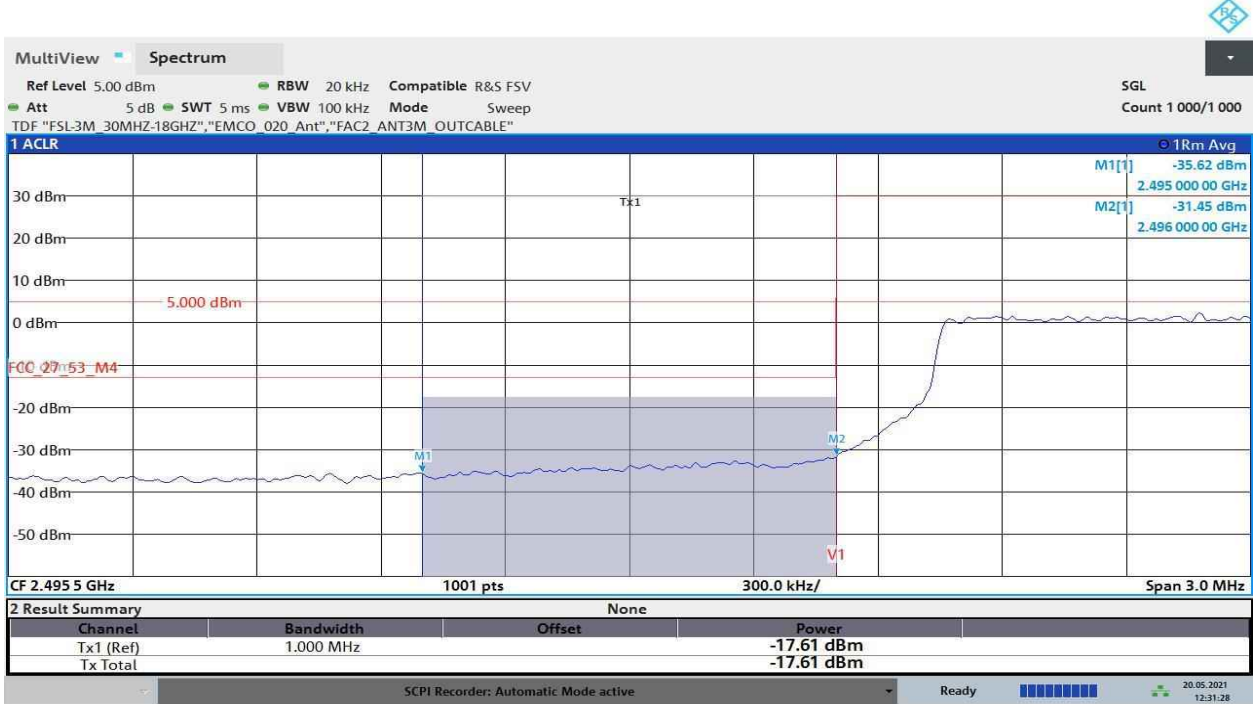
11:52:13 20.05.2021

D003a_Below_Sweep1_AntH_230deg_EUTStanding_Ch39675_1RBlow



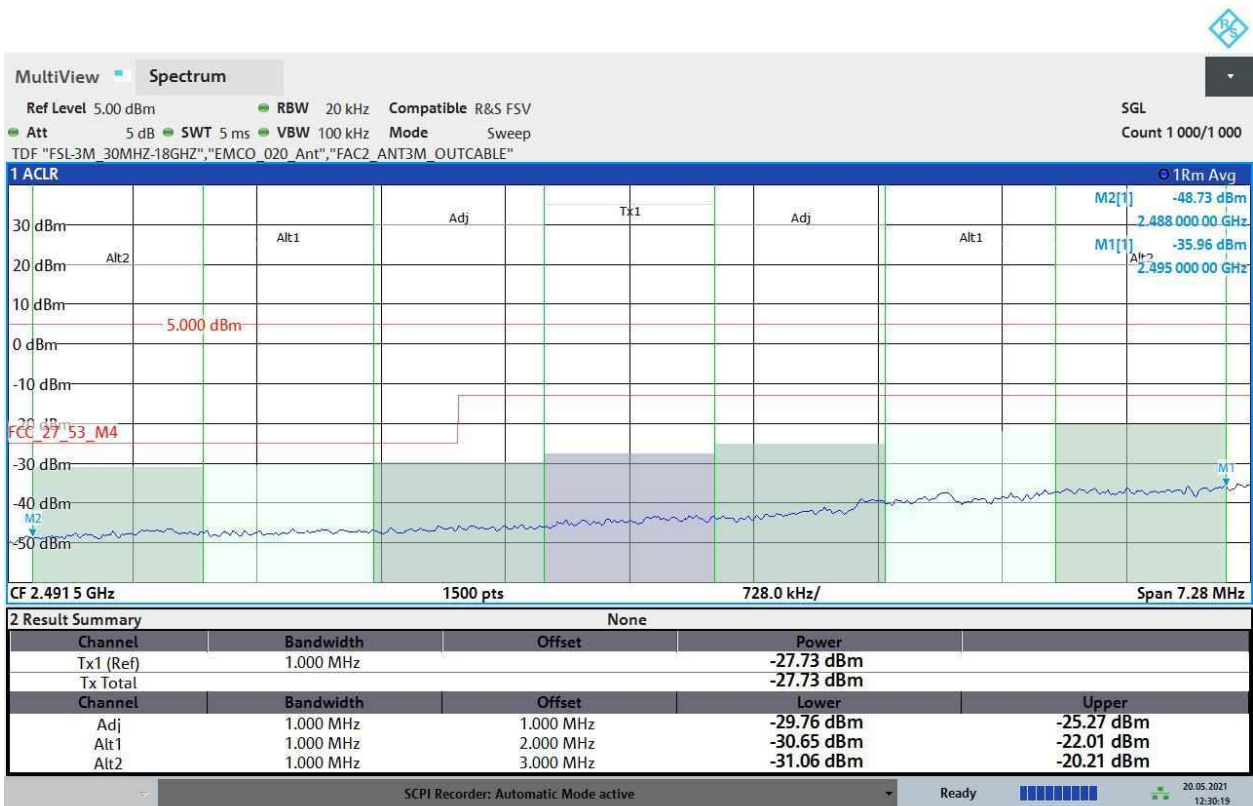
12:27:35 20.05.2021

D003b_Below_Sweep2_AntH_230deg_EUTStanding_Ch39675_1RBlow



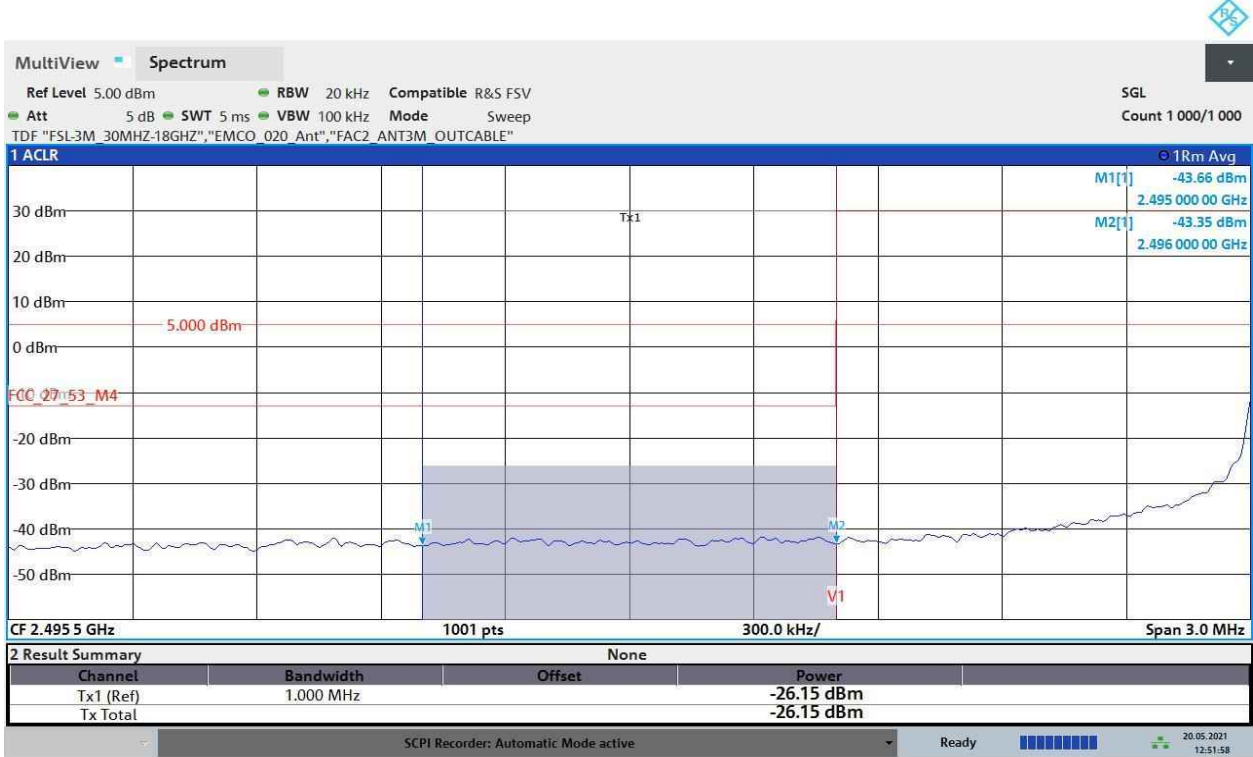
12:31:28 20.05.2021

D004a_BELOW_Sweep1_AnTH_230deg_EUTStanding_Ch39675_25RBs_QPSK



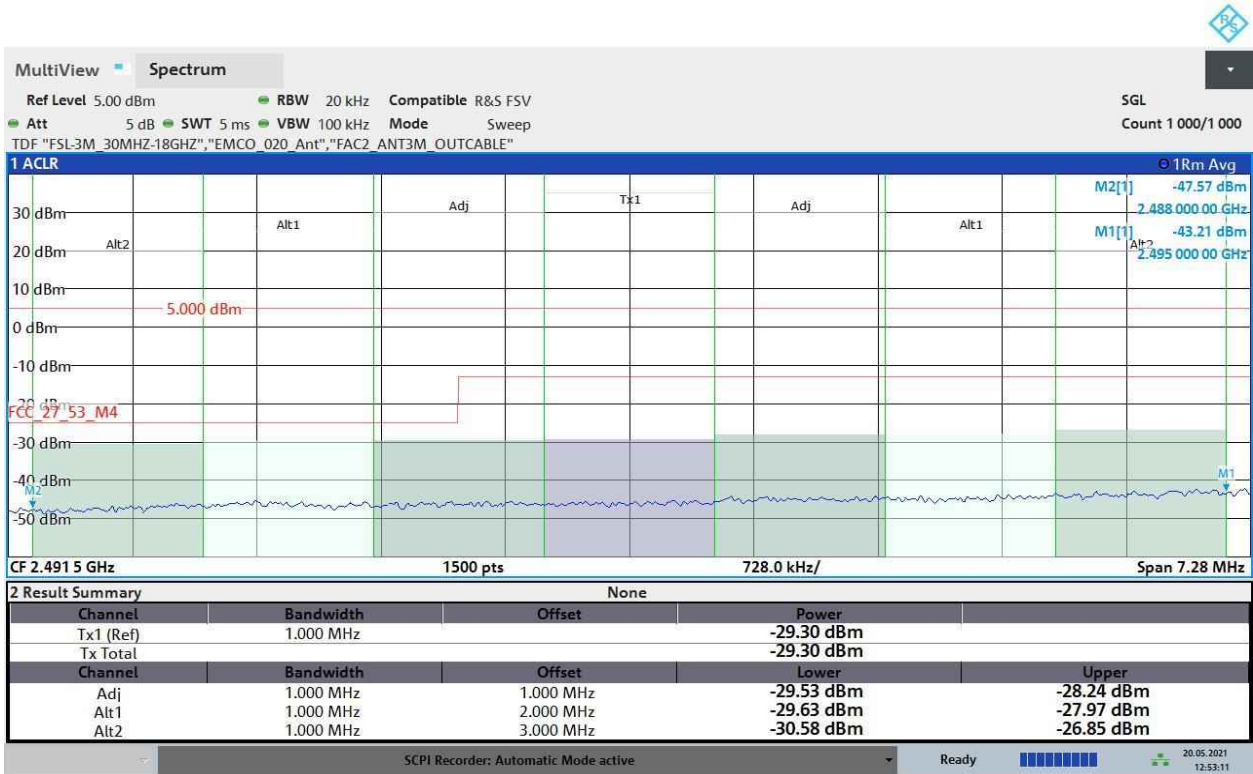
12:30:19 20.05.2021

D004b_BELOW_Sweep2_AnTH_230deg_EUTStanding_Ch39675_25RBs_QPSK



12:51:58 20.05.2021

D007a_Below_Sweep1_AntH_230deg_EUTStanding_Ch39750_100RBs



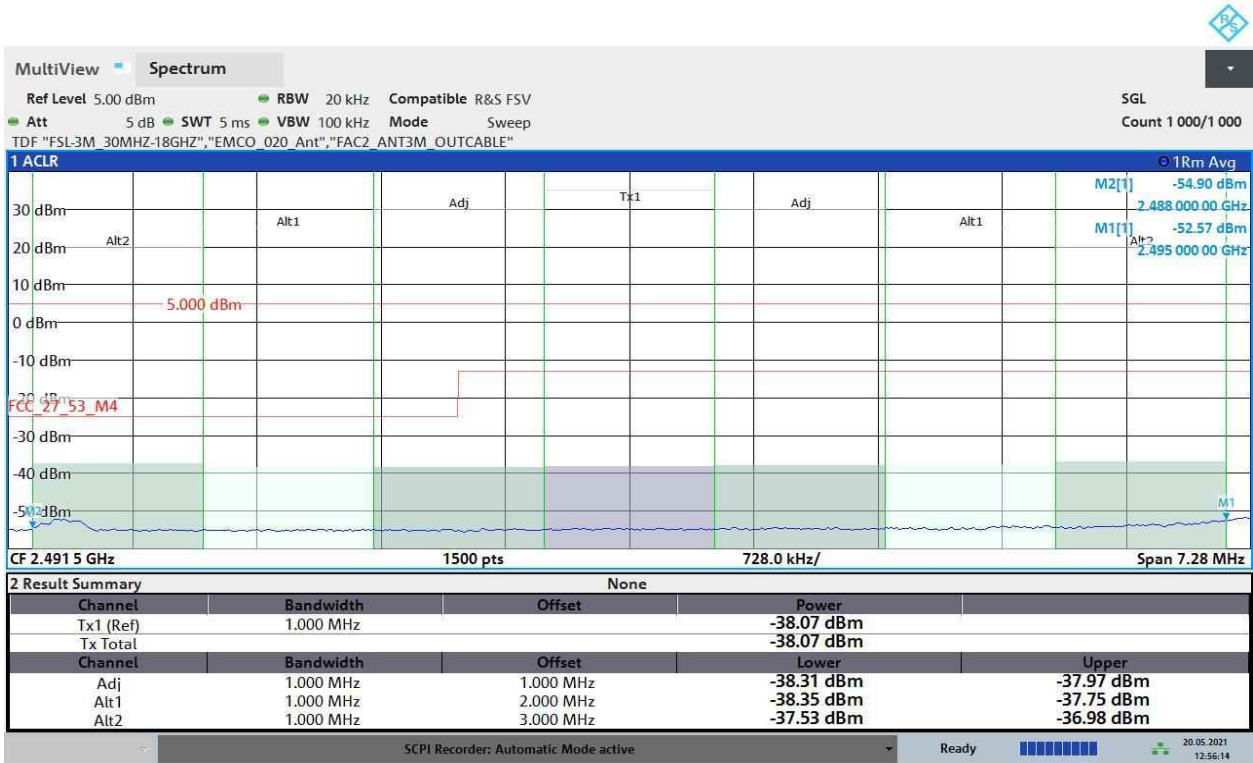
12:53:11 20.05.2021

D007b_Below_Sweep2_AntH_230deg_EUTStanding_Ch39750_100RBs



12:55:30 20.05.2021

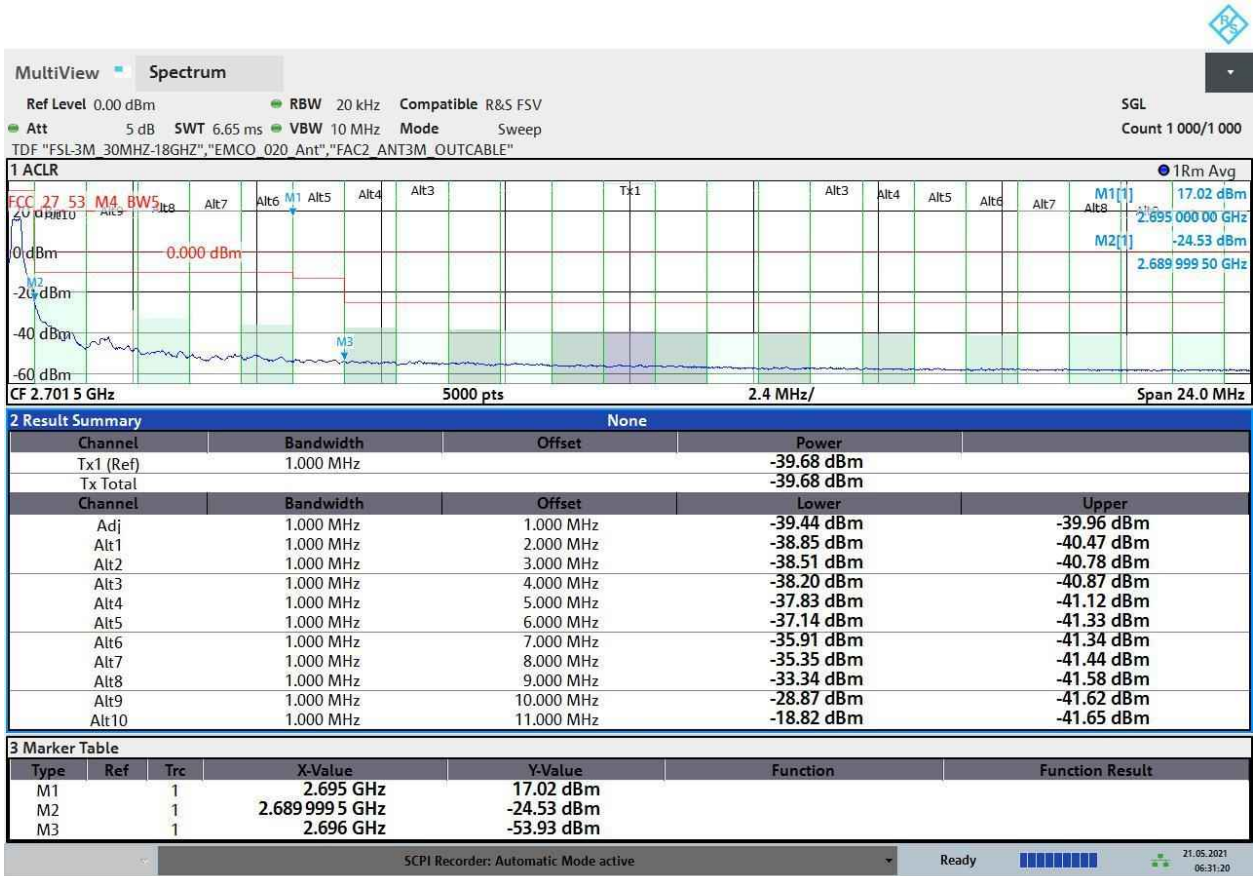
D008a_BElow_Sweep1_AnH_230deg_EUTStanding_Ch39750_1RBlow



12:56:14 20.05.2021

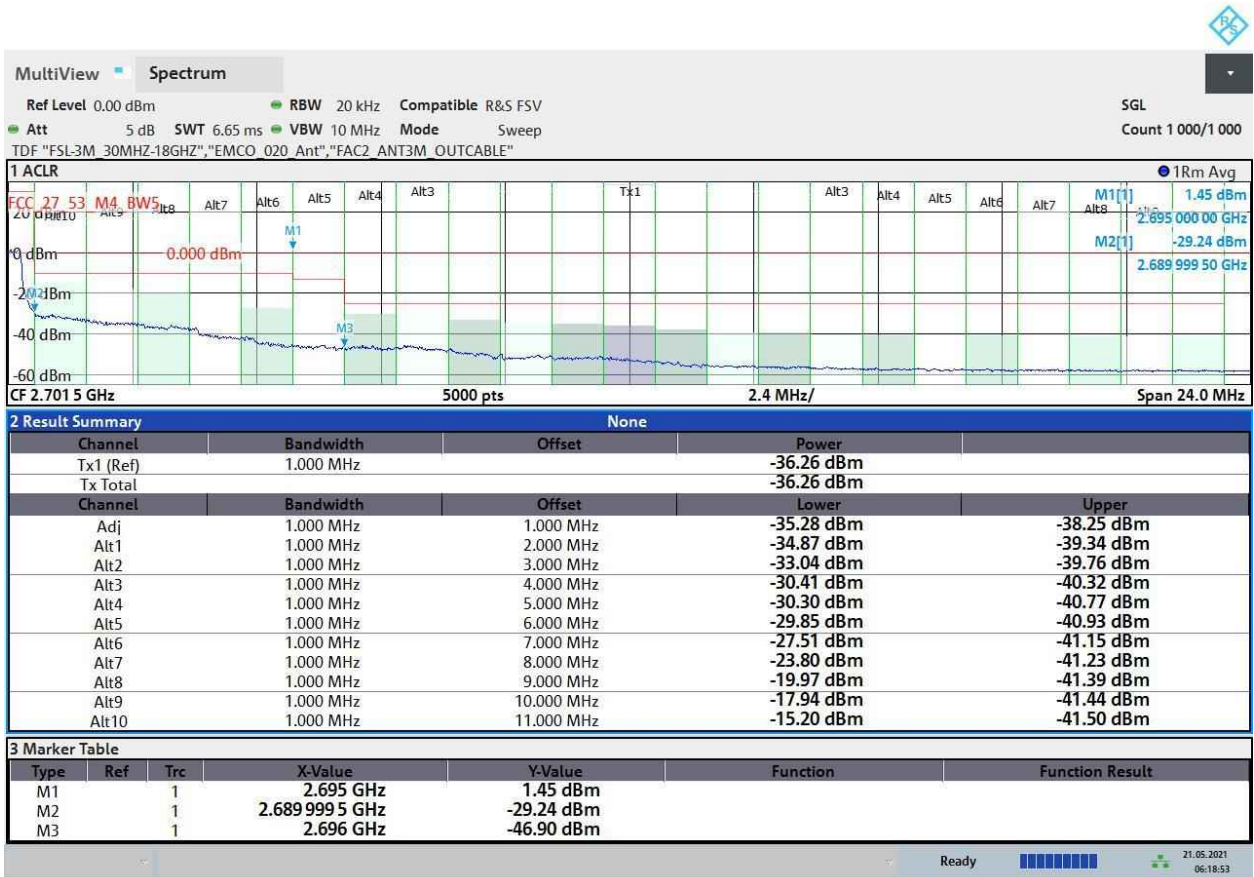
D008b_BElow_Sweep2_AnH_230deg_EUTStanding_Ch39750_1RBlow

1.4.1.1 LTE Band 41 High



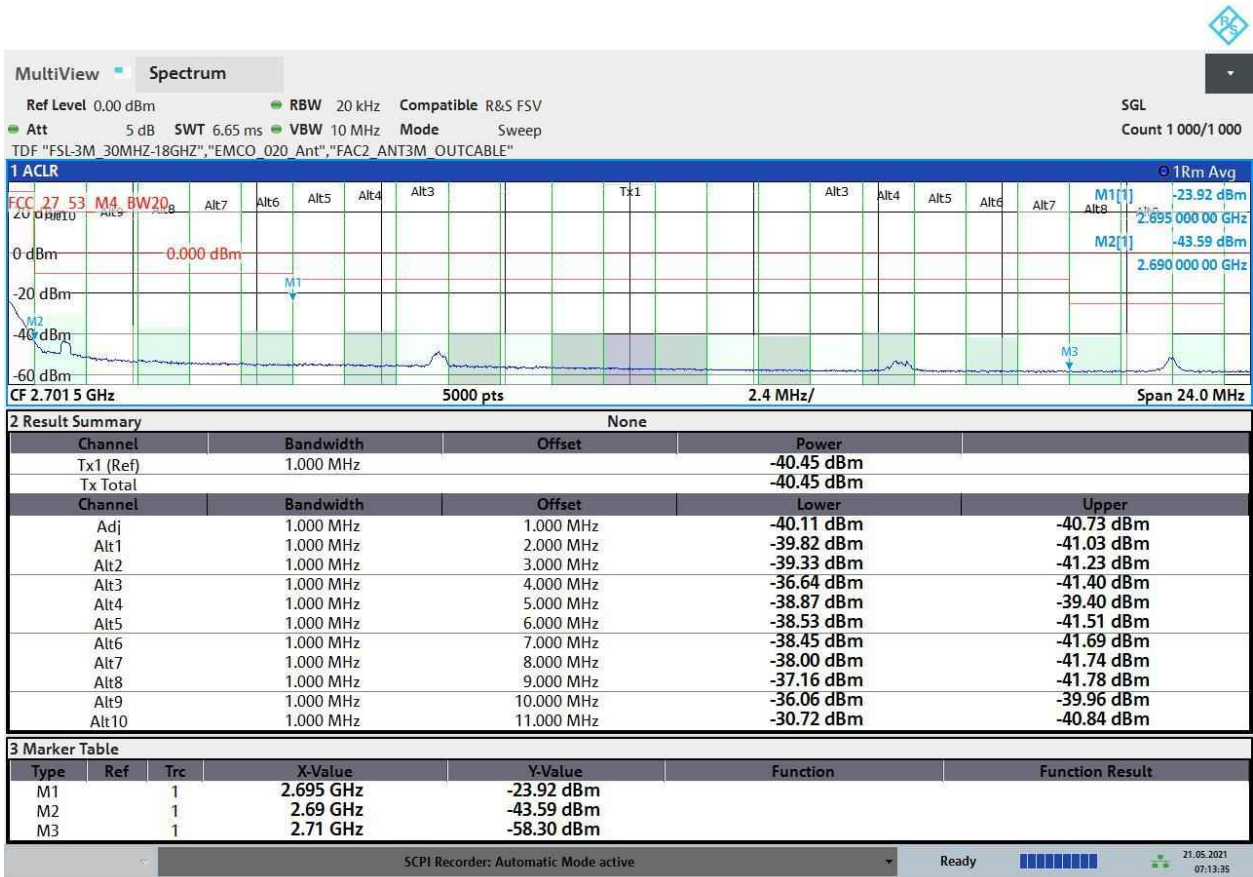
06:31:21 21.05.2021

D020_BEHigh_AntH_223deg_EUT_standing_Ch41565_1RBhigh_QPSK



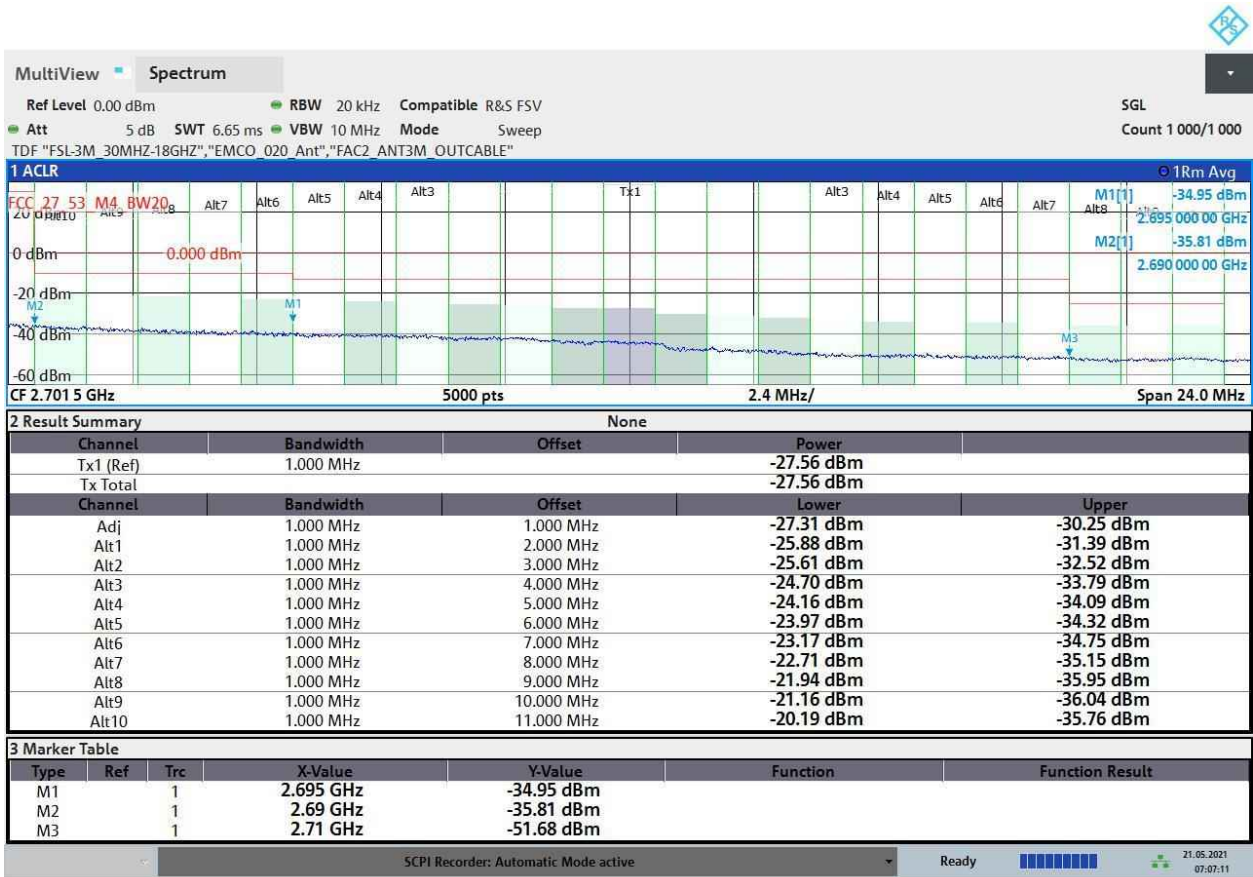
06:18:53 21.05.2021

D021_BEHigh_AntH_223deg_EUT_standing_Ch41565_25RBs_QPSK



07:13:35 21.05.2021

D022_BEHigh_AntH_223deg_EUT_standing_Ch41490_1RBhigh_QPSK



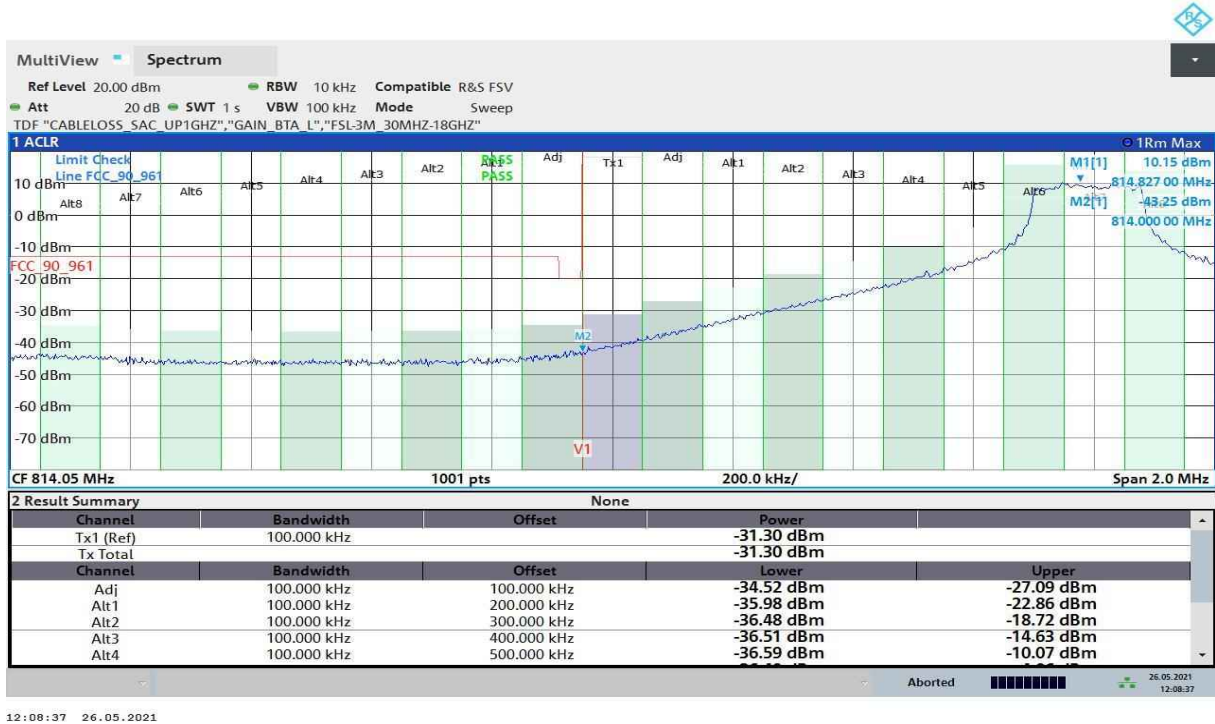
07:07:12 21.05.2021

D023_BEHigh_AntH_223deg_EUT_standing_Ch41490_100RBs_QPSK

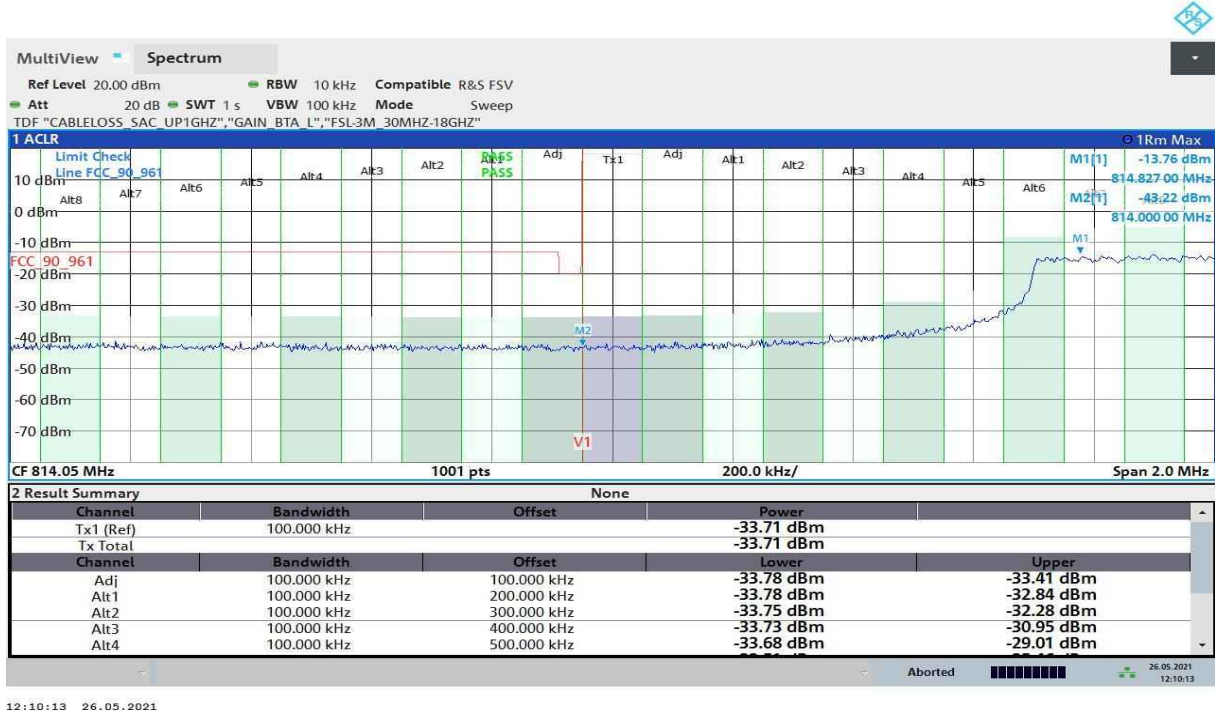
1.5 Radiated band-edge, LTE Band 26

1.5.1 Band-Edge Low / BW = 15MHz

Measurements have been performed with one RB and full RBs



D265_BE_low_Ch26765_BW15_1RB_low_AntH_QPSK_NS12



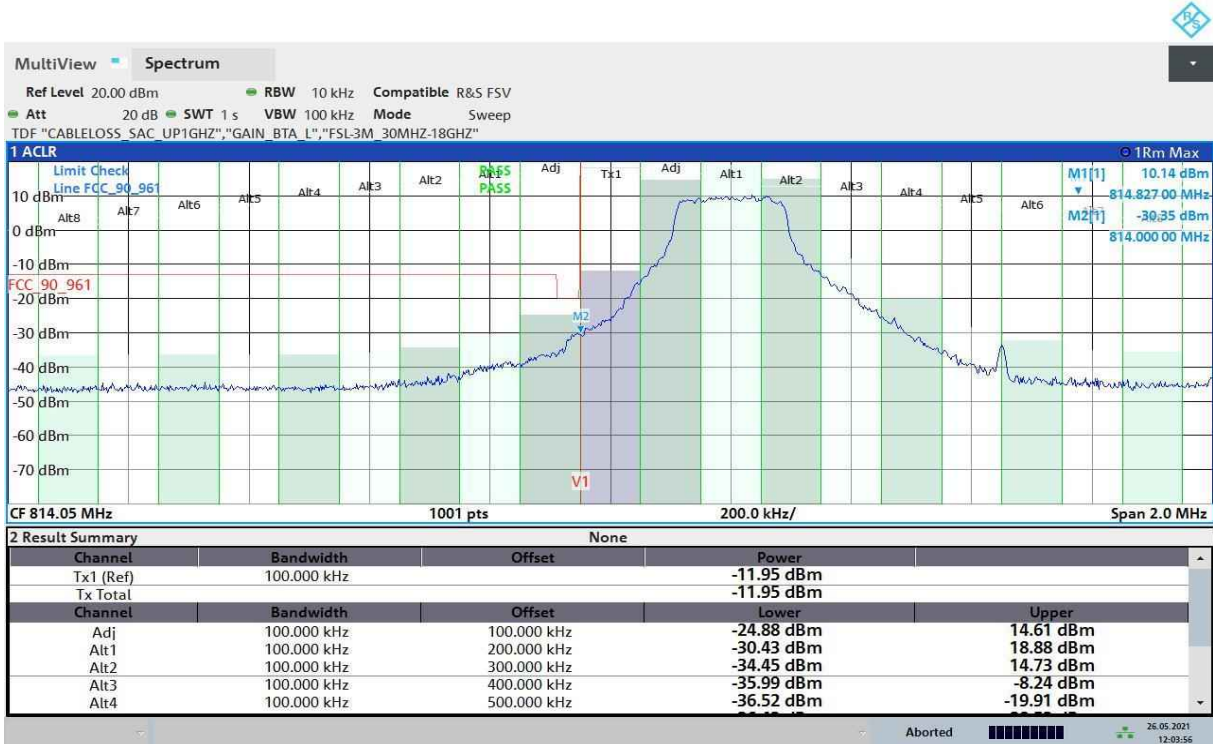
D266_BE_low_Ch26765_BW15_75RBs_AntH_QPSK_NS12

1.5.2 Band-Edge Low / BW = 1.4MHz



12:06:12 26.05.2021

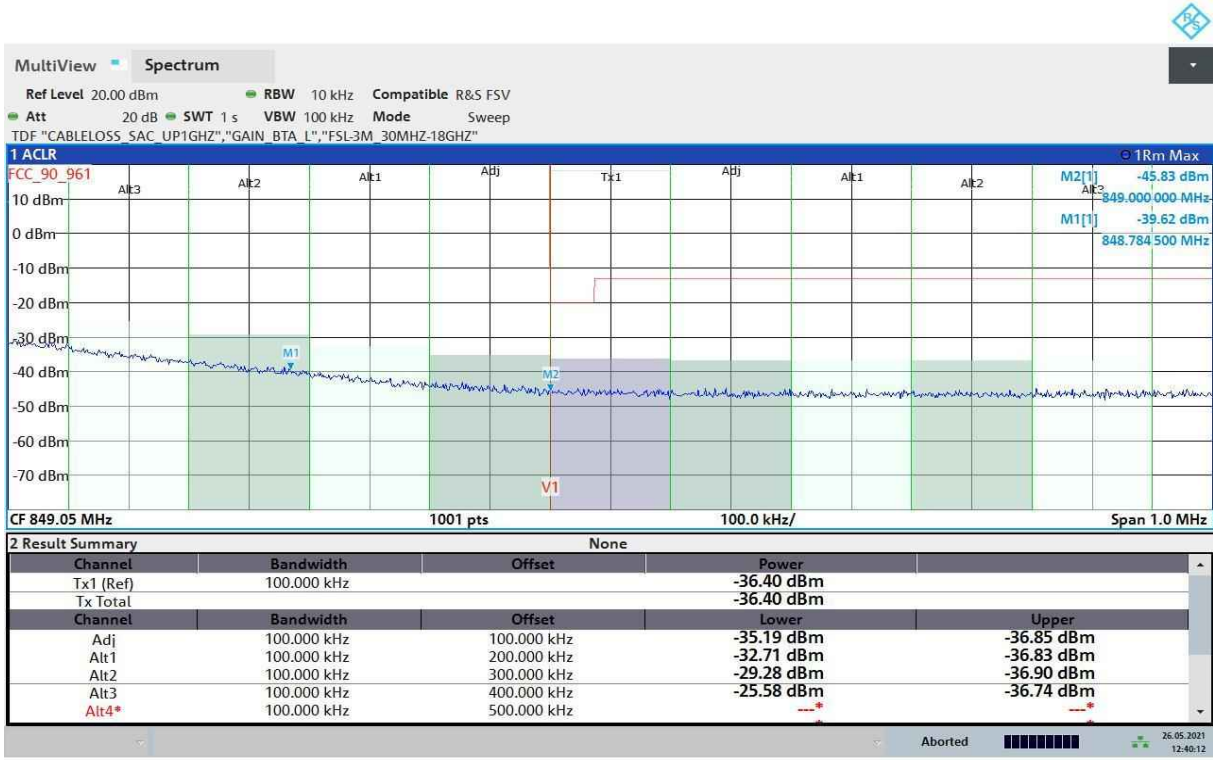
D267_BE_low_Ch26697_BW1_4_6RBs_AntH_QPSK_NS12



12:03:57 26.05.2021

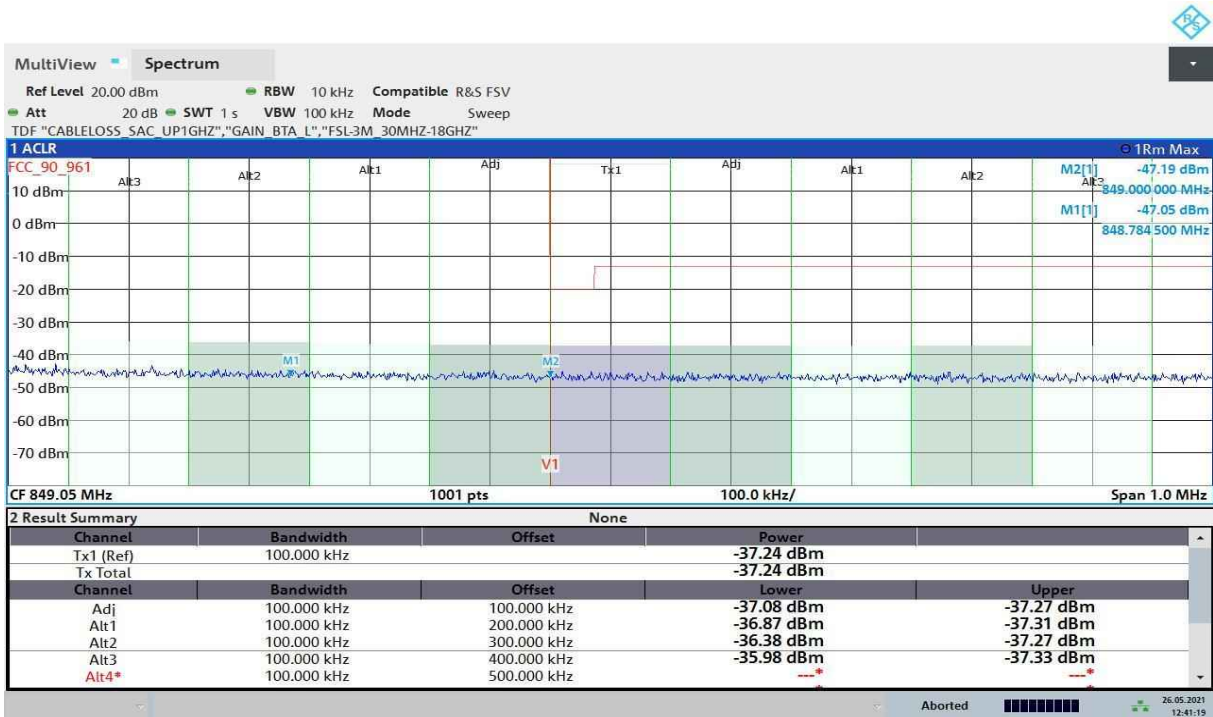
D268_BE_low_Ch26697_BW1_4_1RBlow_AntH_QPSK_NS12

1.5.3 Band-Edge High / BW = 15MHz



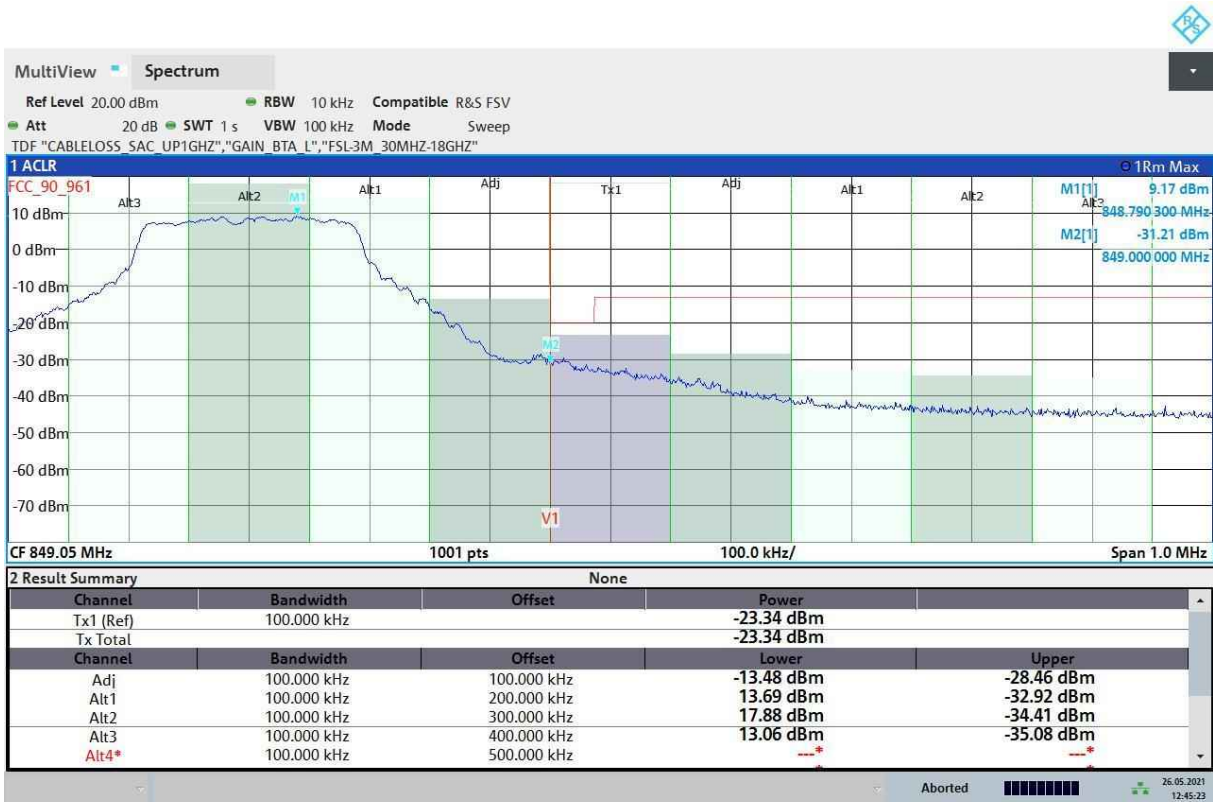
12:40:13 26.05.2021

9.260_BEhigh_BW15_Ch26965_1RBhigh_NS15_QPSK



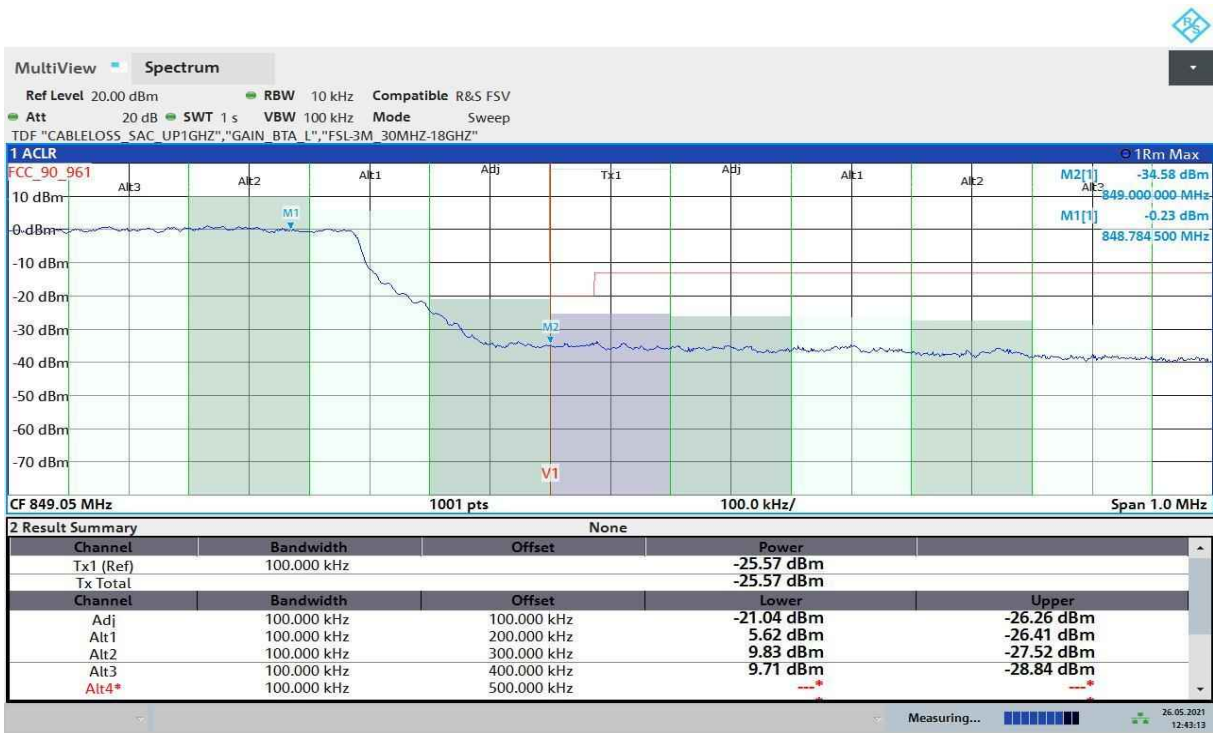
12:41:19 26.05.2021

9.262_BEhigh_BW15_Ch26965_75RBs_NS15_QPSK



12:45:23 26.05.2021

9.263_BEhigh_BW1_4MHz_Ch27033_1RBhigh_NS15_QPSK

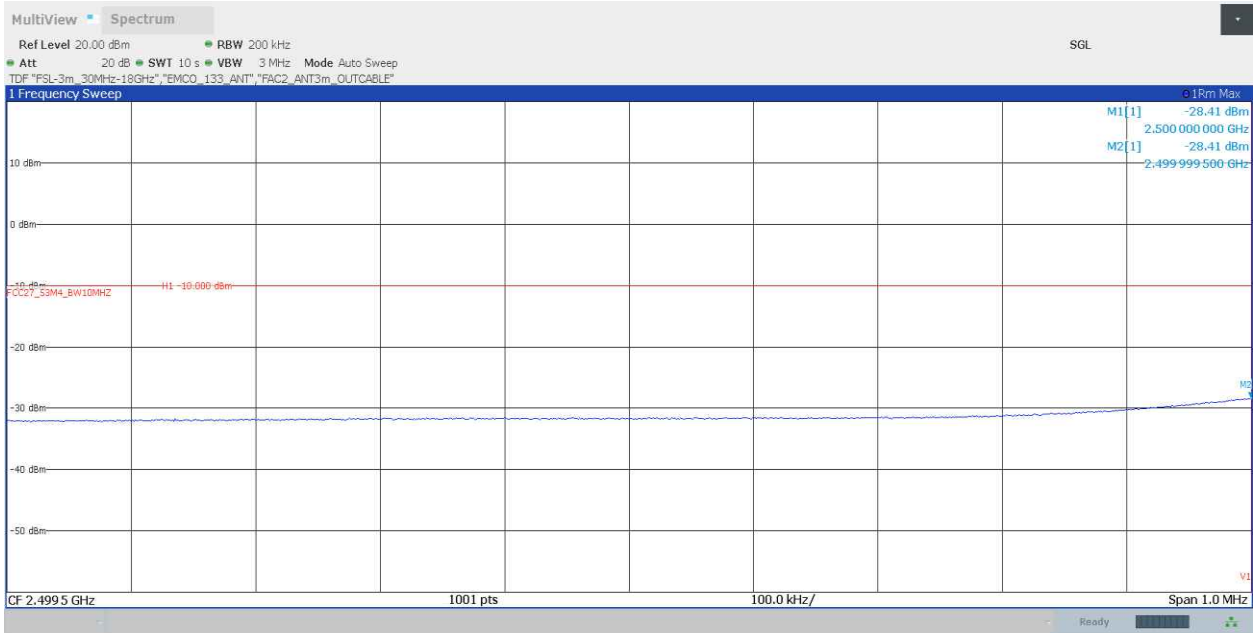


12:43:13 26.05.2021

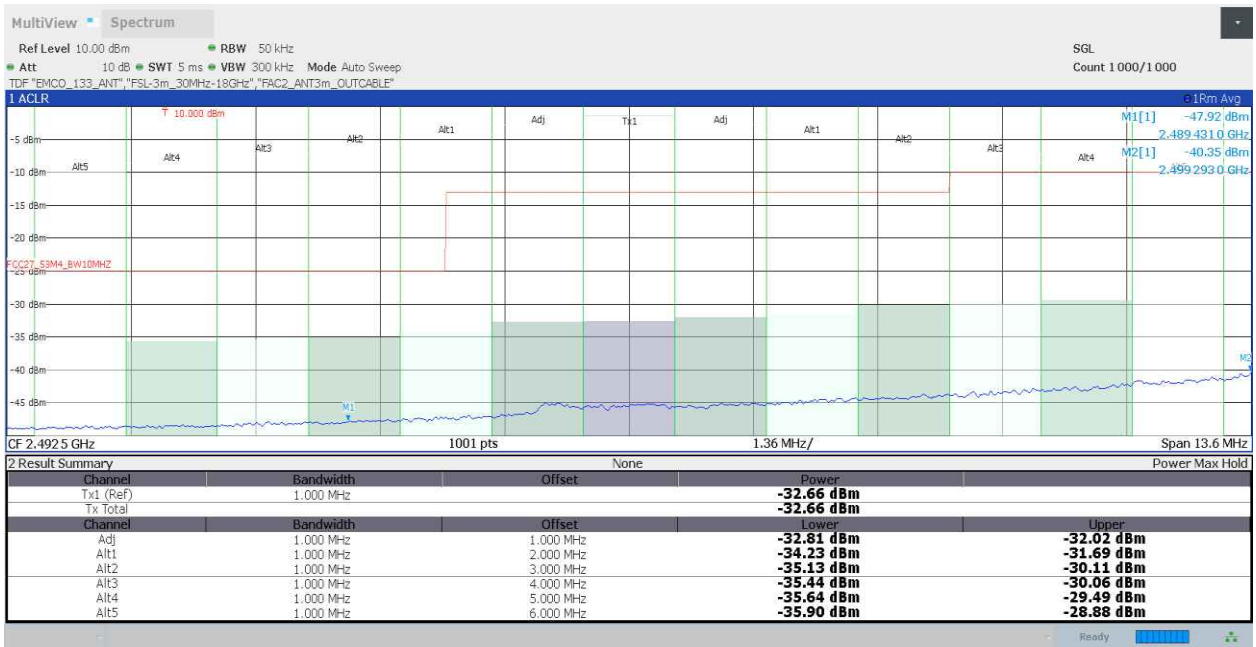
9.264_BEhigh_BW1_4MHz_Ch27033_6RBs_NS15_QPSK

1.6 Radiated band-edge, LTE Band 7

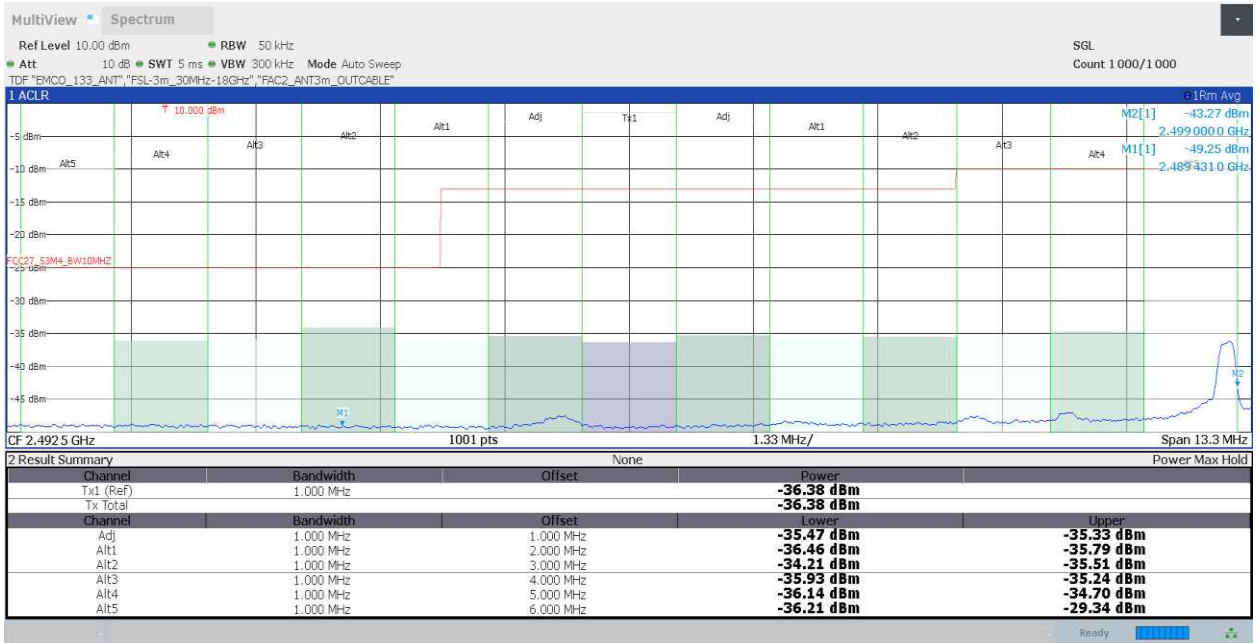
1.6.1 Band-Edge low, Ch21400, 50RBs



9.7_09_BElow_Sweep1_B7_Ch20800_50RBs_QPSK_AntH

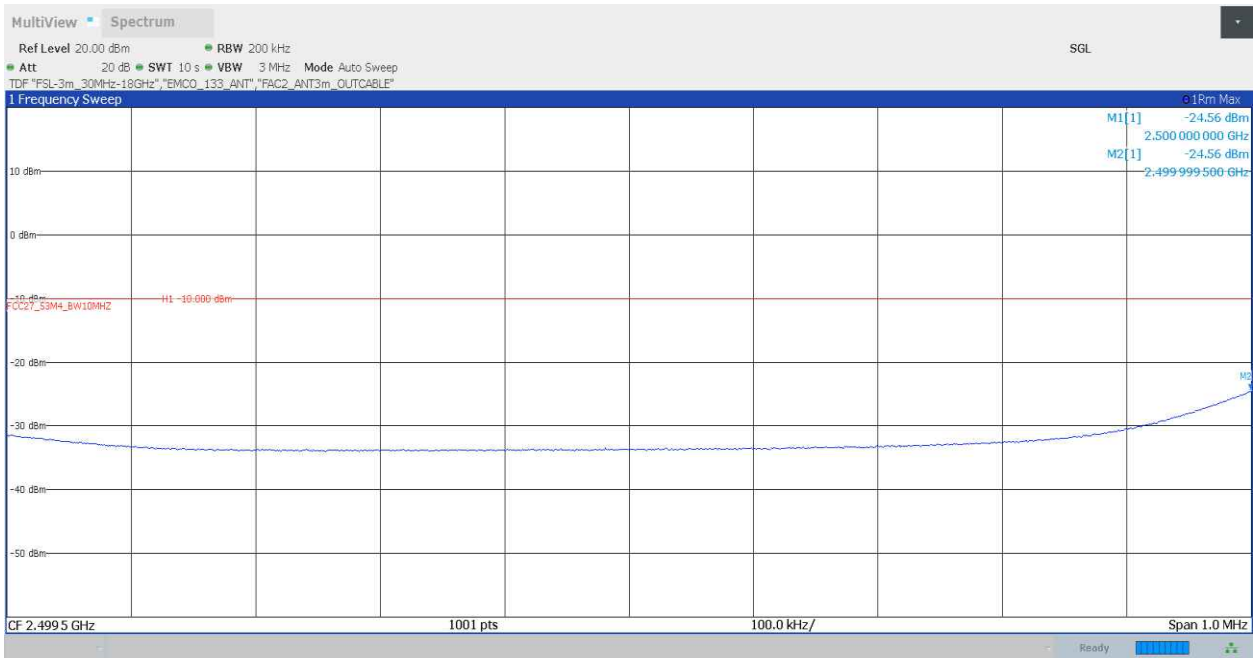


9.7_10_BElow_Sweep2_B7_Ch20800_50RBs_QPSK_AntH



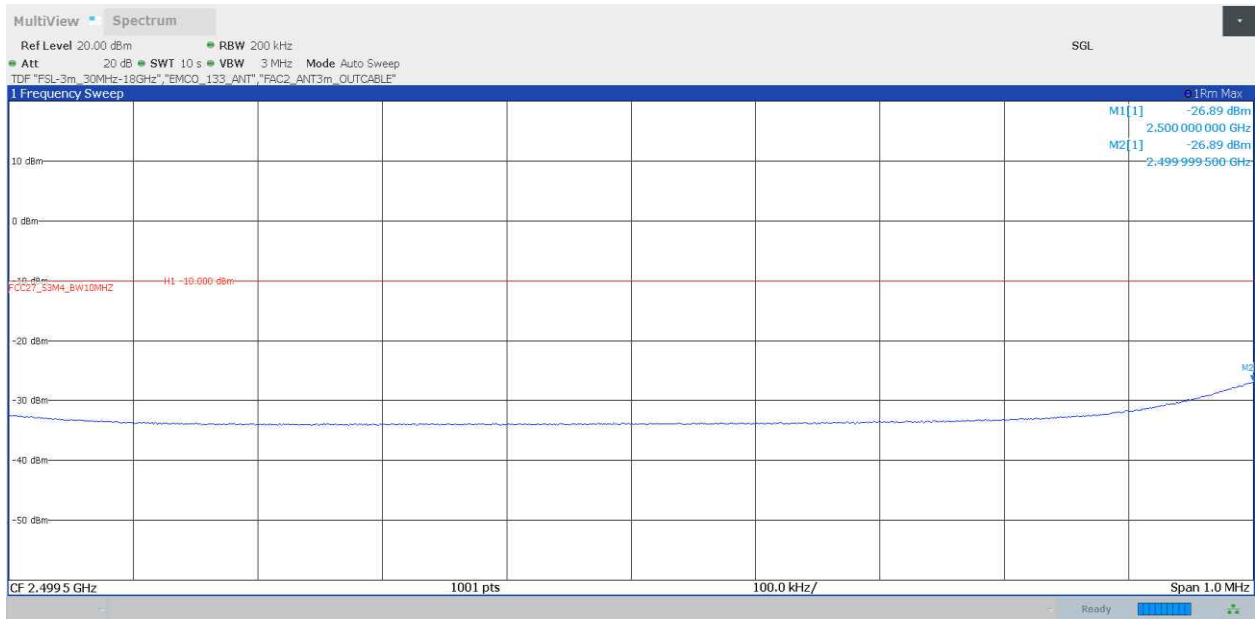
15:07:03 14.07.2021

9.7_11_BElow_Sweep2_B7_Ch20800_1RBlow_QPSK_AntH



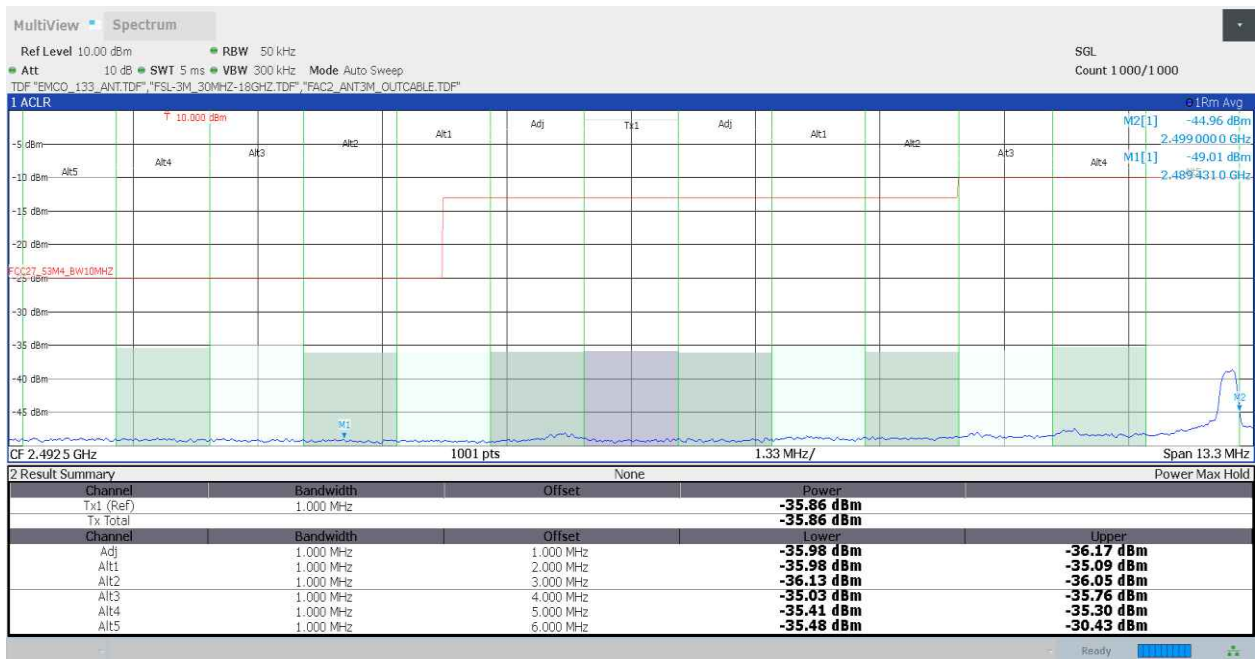
15:08:05 14.07.2021

9.7_12_BElow_Sweep1_B7_Ch20800_1RBlow_QPSK_AntH



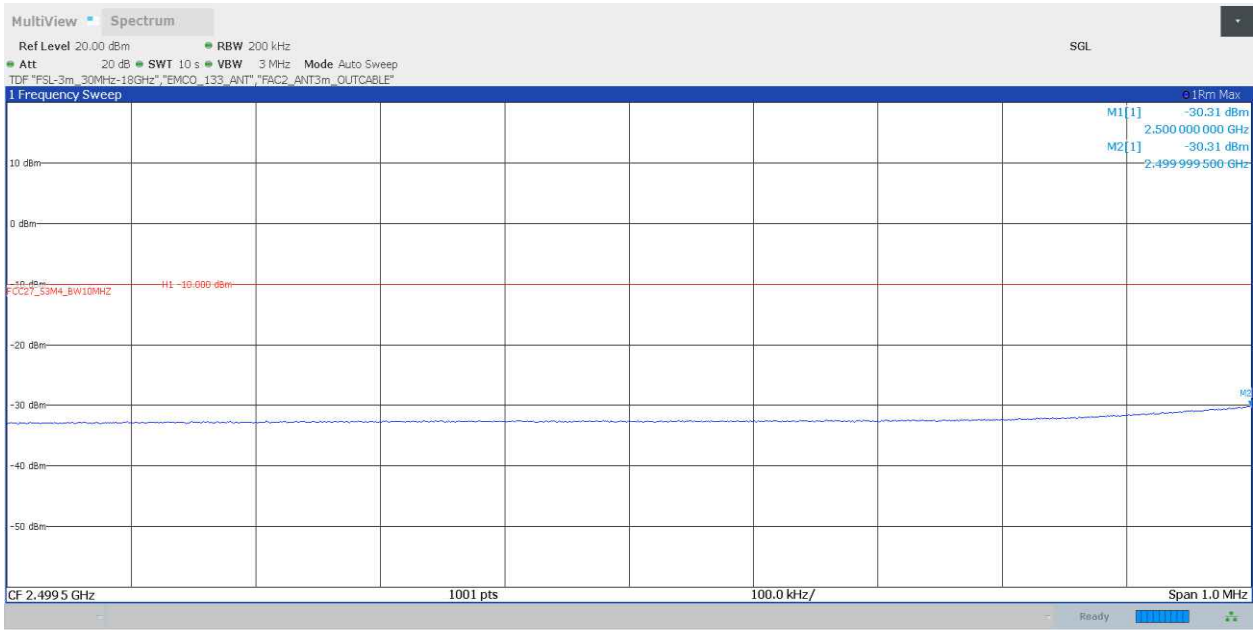
15:21:40 14.07.2021

9.7_15_BELOW_Sweep1_B7_Ch20800_1RBlow_QPSK_AntV_EUTstanding

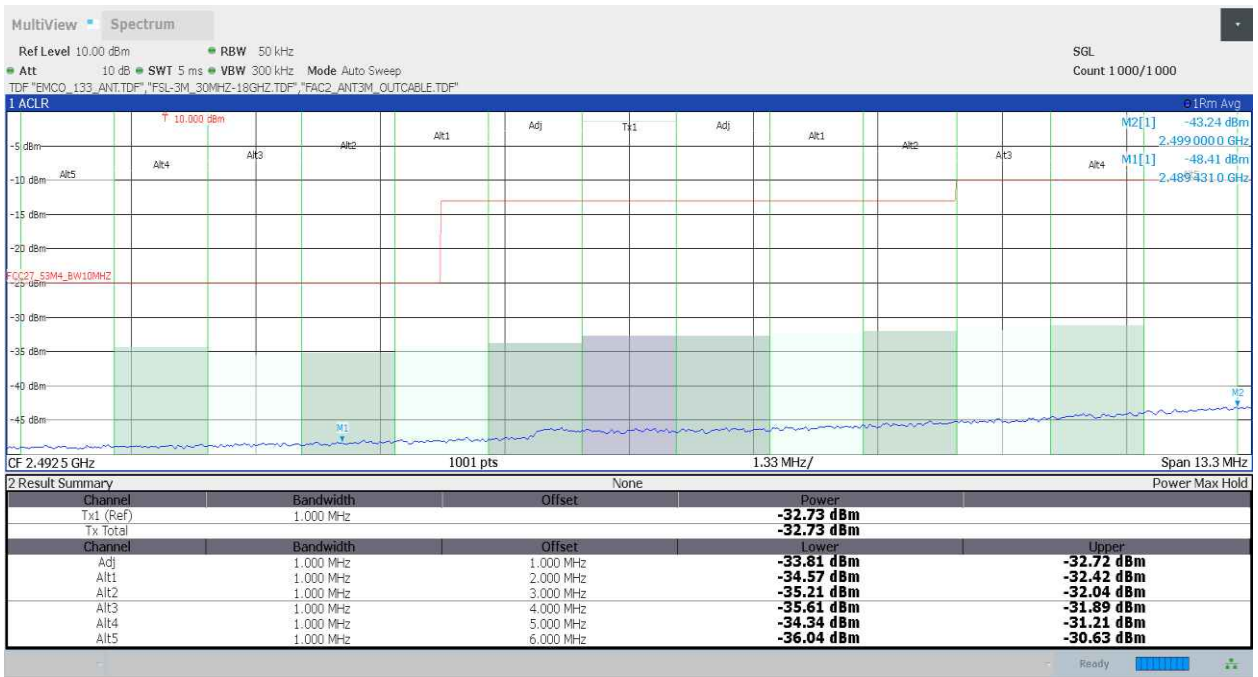


15:26:35 14.07.2021

9.7_16_BELOW_Sweep2_B7_Ch20800_1RBlow_QPSK_AntV_EUTstanding

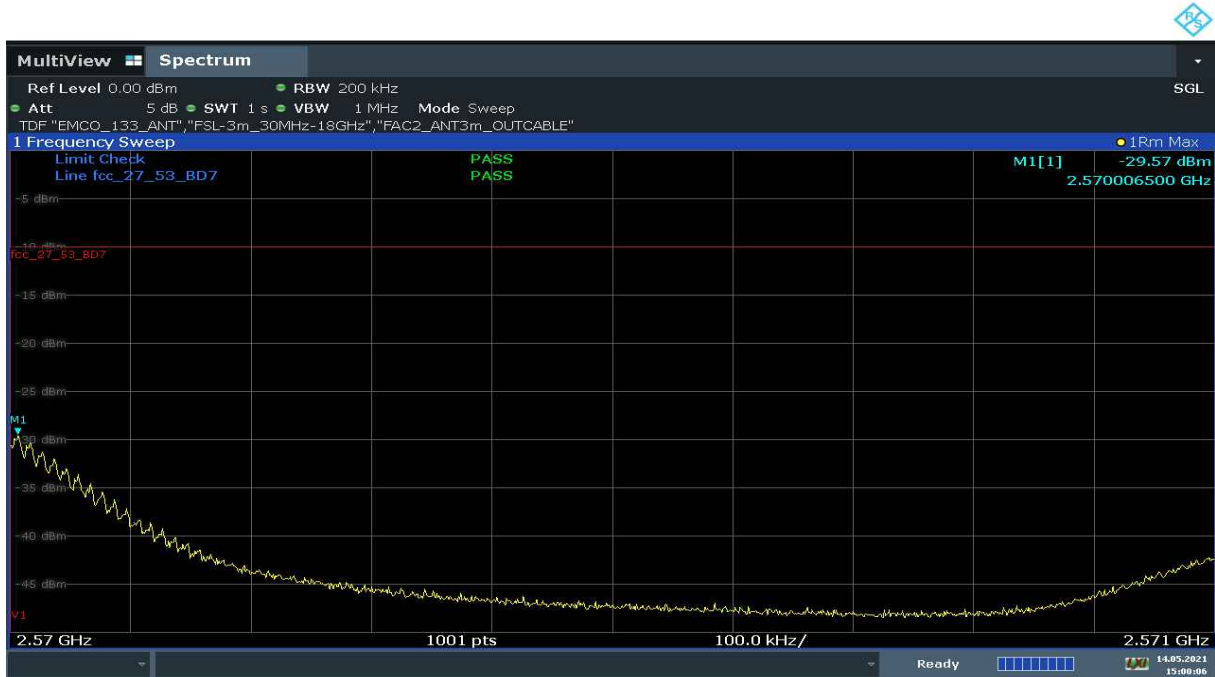


9.7_17_BElow_Sweep1_B7_Ch20800_50RBs_QPSK_AntV_EUTstanding



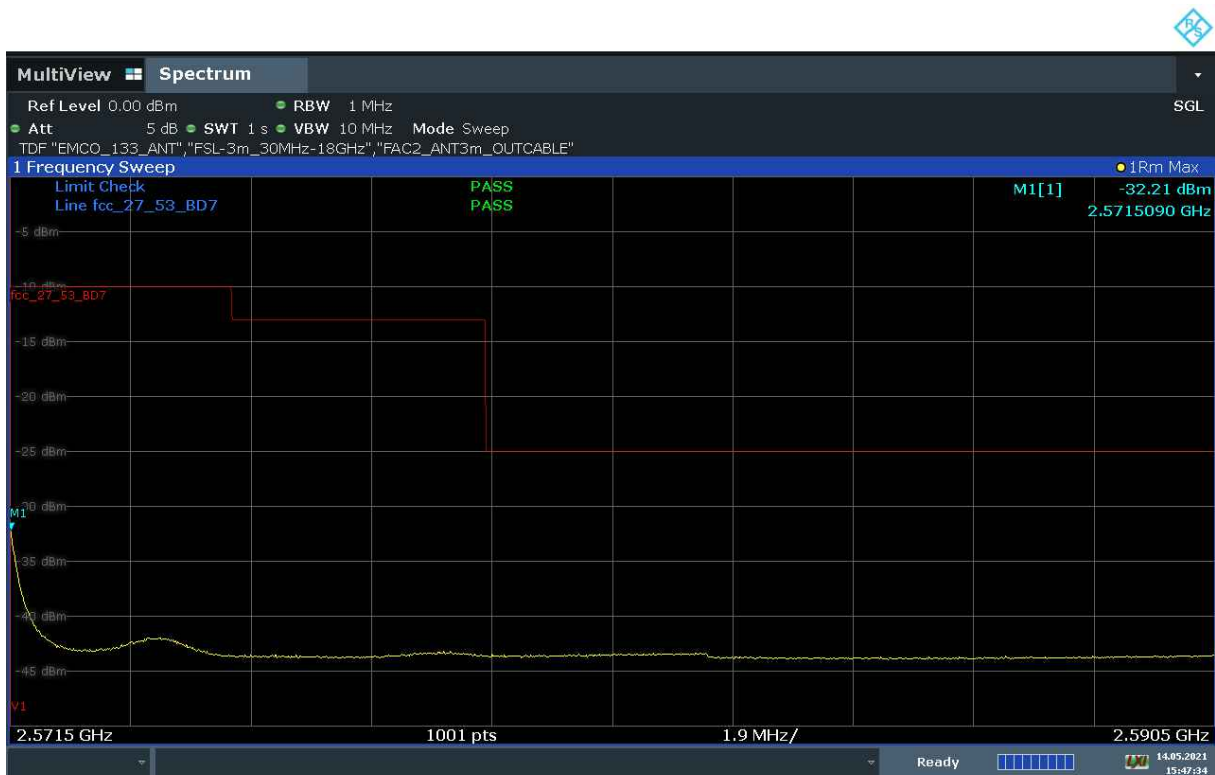
9.7_18_BElow_Sweep2_B7_Ch20800_50RBs_QPSK_AntV_EUTstanding

1.6.2 Band-Edge High, Ch21400 1RB high



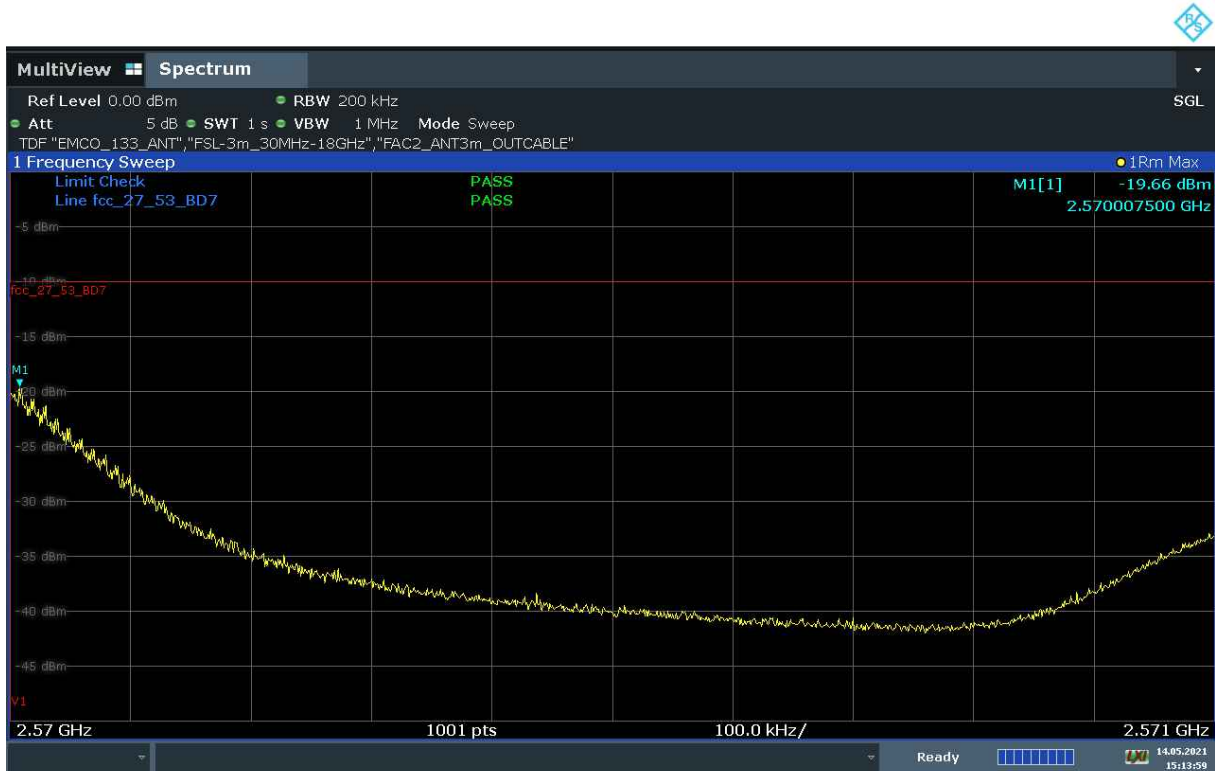
15:00:06 14.05.2021

9.7_05_BE_high_Sweep1_B7_Ch21400_1RB_high_QPSK_NS01_AntV

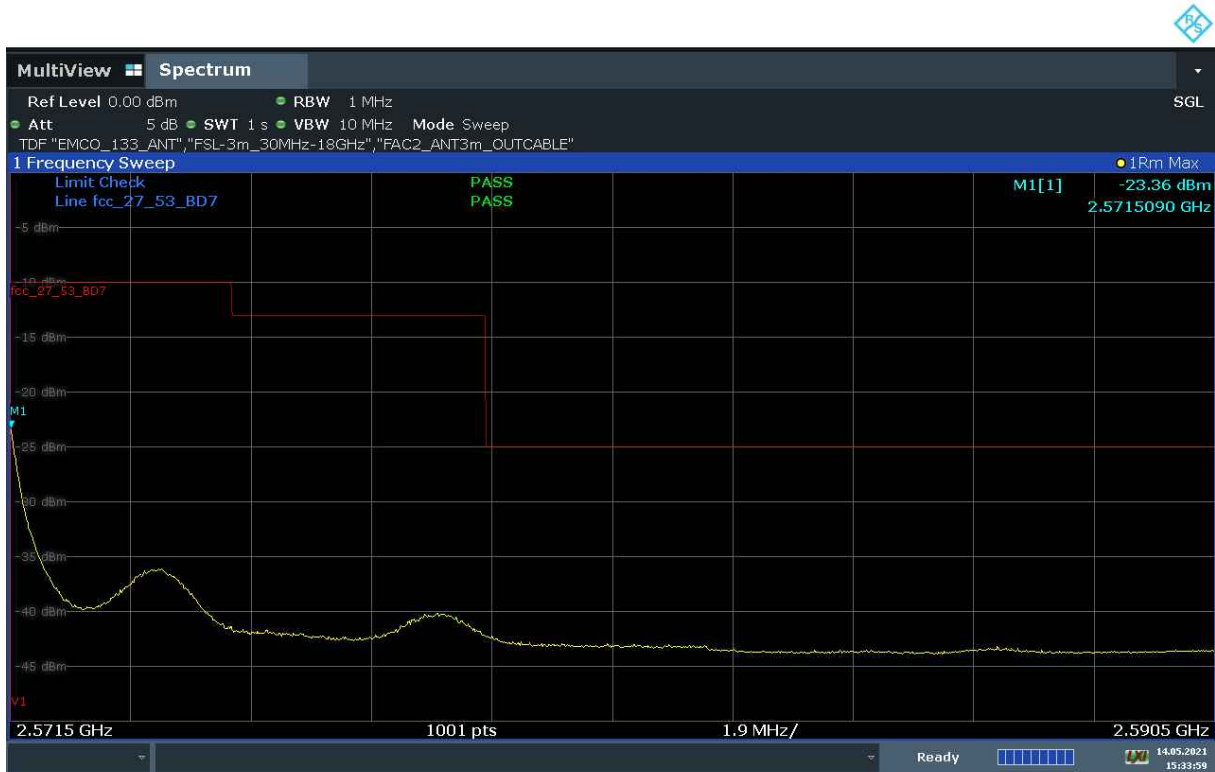


15:47:35 14.05.2021

9.7_08_BE_high_Sweep2_B7_Ch21400_1RB_high_QPSK_NS01_AntV

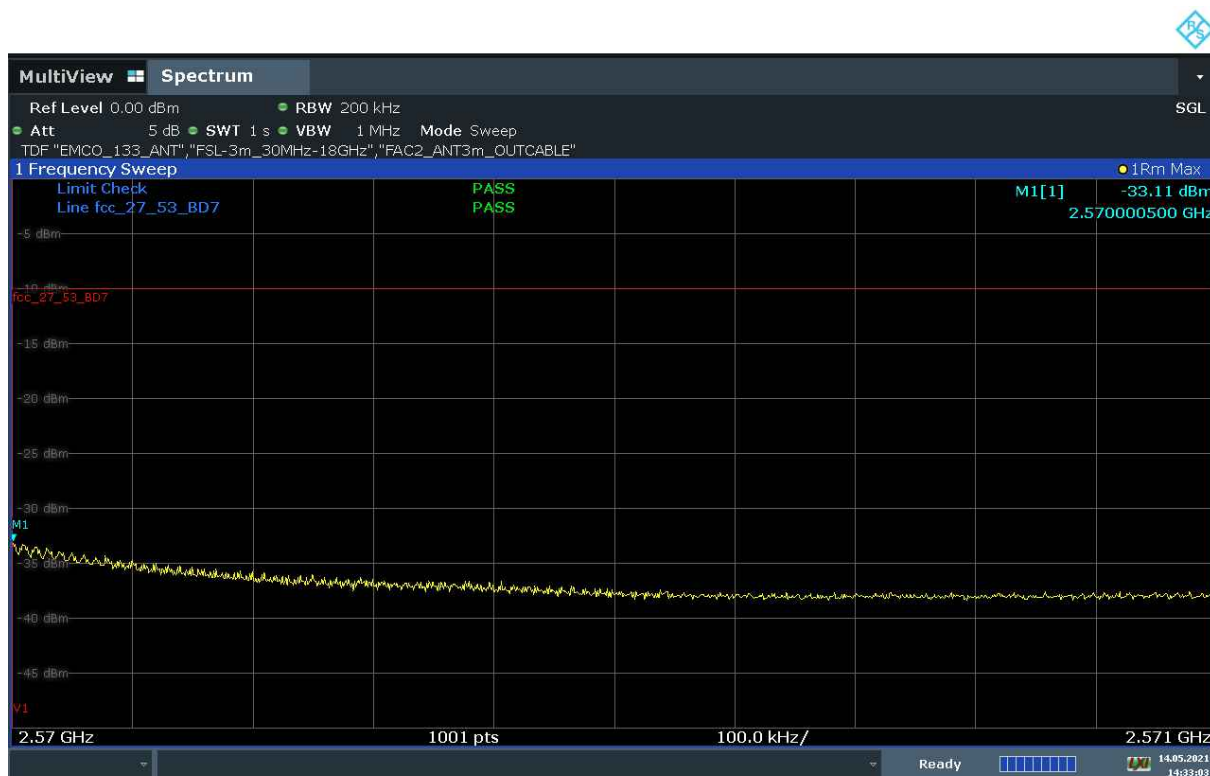


9.7_06_BE_high_Sweep1_B7_Ch21400_1RB_high_QPSK_NS01_AntH



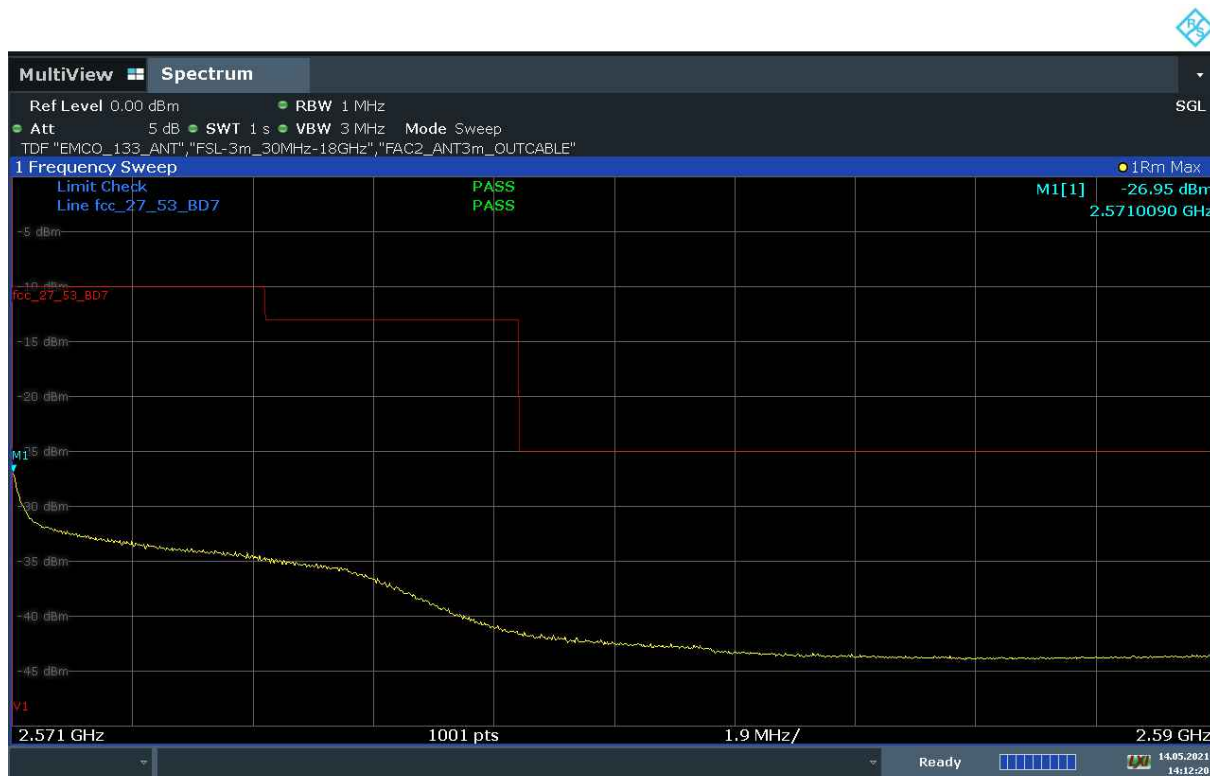
9.7_07_BE_high_Sweep2_B7_Ch21400_1RB_high_QPSK_NS01_AntH

1.6.3 Band-Edge High Ch21400 50RBs (full)



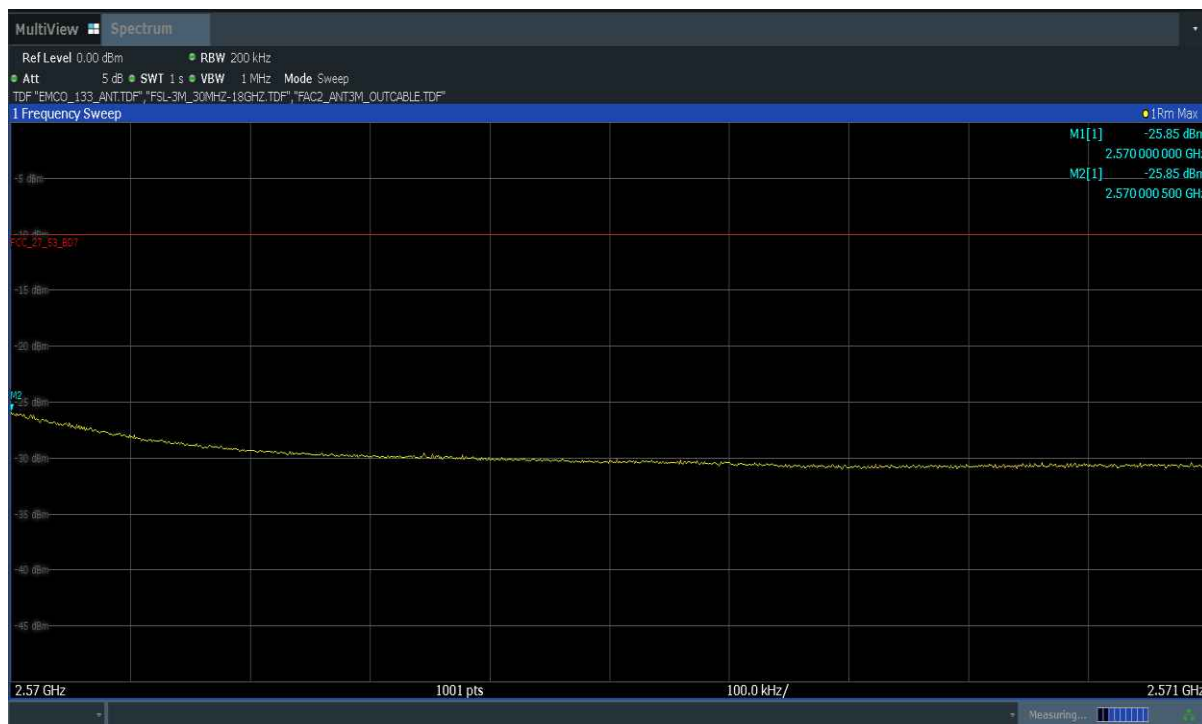
14:33:03 14.05.2021

9.7_03_BE_high_Sweep1_B7_Ch21400_50RBs_NS01_AntV

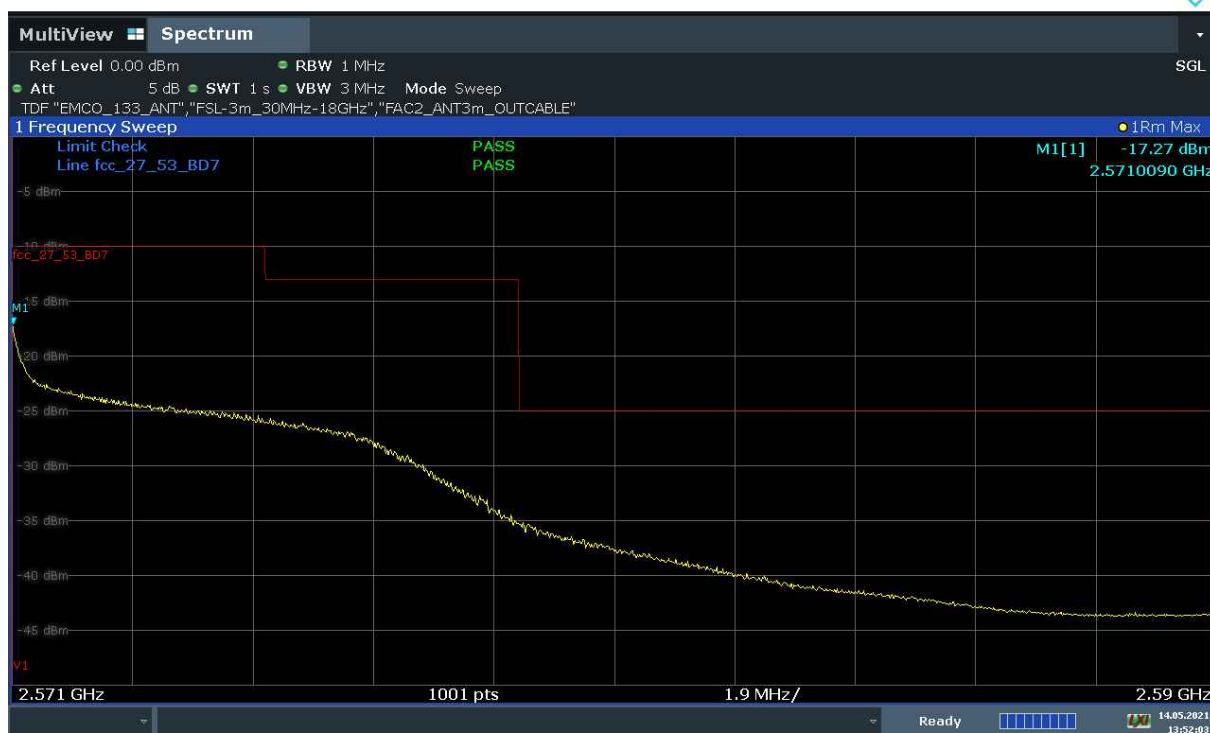


14:12:21 14.05.2021

9.7_02_BE_high_Sweep2_B7_Ch21400_50RBs_NS01_AntV



9.7_04_BEhigh_Sweep1_B7_Ch21400_50RBs_QPSK_AntH



9.7_01_BEhigh_Sweep2_B7_Ch21400_50RBs_NS01_AntH

End Of Annex 1