

Annex 1: Measurement diagrams to

TEST REPORT No.: 16-1-0141801T04-C1

According to:

FCC Regulations

Part 15.209 Part 15.247

IC-Regulations

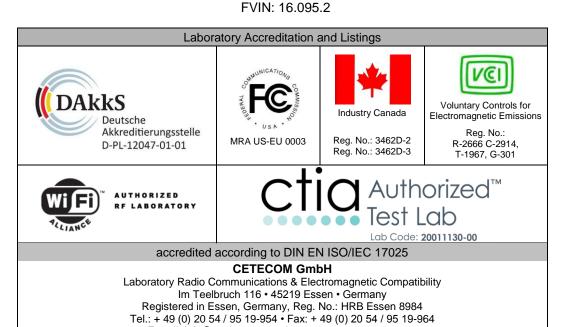
RSS-Gen, Issue 4 RSS-247, Issue

for

Daimler Trucks North America

CTPMIDDTNA ECU

FCC-ID: 2AKC8CTP054661 IC: 22221-CTP054661 PMN: CTPMIDDTNA HVIN: CTPMIDDTNA



E-mail: info@cetecom.com • Internet: www.cetecom.com



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1. Radiated field strength measurements accord. §15.209&15.205

1.1. Magnetic field measurements f<30MHz

Diagram No. 2.01_WLAN_b mode_1Mbps_Ch1_Pwr 14

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: AF

Operating mode: WLAN b mode 1 Mbps CH1 Pwr 14
Operating conditions: Humidity: 40%rH; Temperature: 20°C

Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC

Full Spectrum

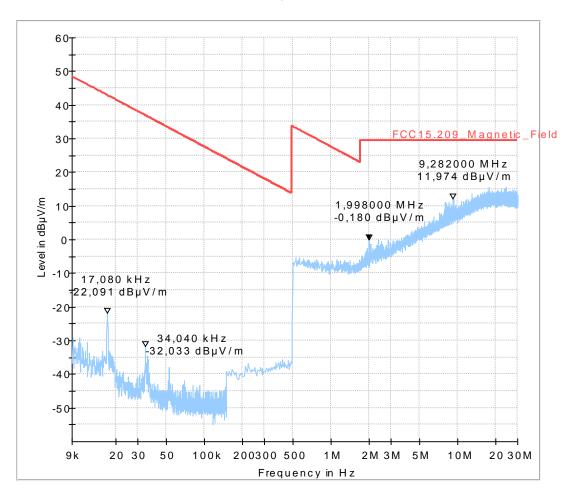




Diagram No. 2.02_WLAN_g mode_24Mbps_Ch11 Pwr 11

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: AFr

Operating mode: WLAN g mode 24 Mbps CH11 Pwr 11
Operating conditions: Humidity: 40%rH; Temperature: 20°C

Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC

Full Spectrum

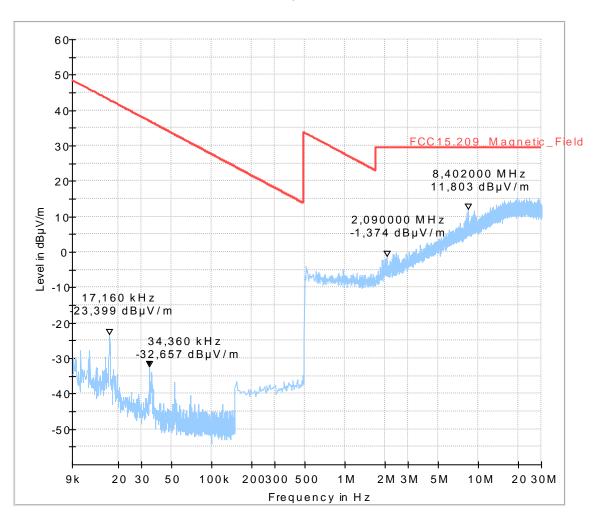




Diagram No. 2.03_WLAN_n mode_MCS0_Ch6_ Pwr 11

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: AFr

Operating mode: WLAN n mode MCS0 CH6 Pwr 11
Operating conditions: Humidity: 40%rH; Temperature: 20°C

Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

HW Version: 6794G05

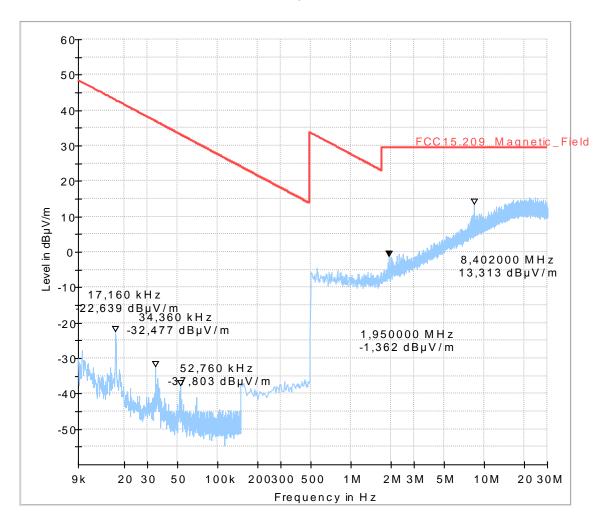
SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC

Full Spectrum





1.2. Field strength measurements 30MHz <f <1GHz Diagram No. 3.01_WLAN_b mode_1Mbps_Ch1_ Pwr 14

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: AFr

Operating mode: WLAN b mode 1Mbps Ch 1 Pwr 14
Operating conditions: Humidity: 40%rH; Temperature: 20°C

Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

HW Version: 6794G05

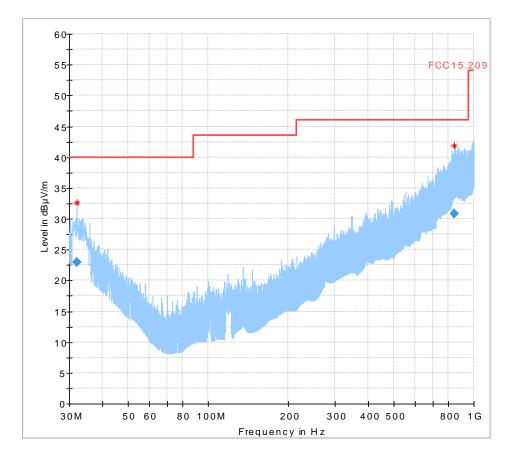
SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC

Full Spectrum



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.068000	22.96	40.00	17.04	1000.0	120.000	113.0	V	156.0	20.6
841.660000	30.85	46.00	15.15	1000.0	120.000	223.0	V	67.0	25.9



Diagram No. 3.02_WLAN_g mode_24Mbps_Ch11 Pwr 11

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: AFr

Operating mode: WLAN g mode 24Mbps Ch 11 Pwr 11
Operating conditions: Humidity: 40%rH; Temperature: 20°C

Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

HW Version: 6794G05

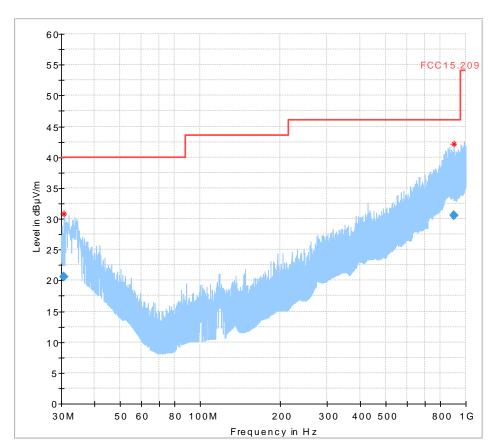
SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC

Full Spectrum



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.692000	20.62	40.00	19.38	1000.0	120.000	232.0	Н	201.0	21.2
901.956000	30.54	46.00	15.46	1000.0	120.000	273.0	Н	238.0	26.8



Diagram No. 3.03_WLAN_n mode_MCS0_Ch6_ Pwr 11

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: AFr

Operating mode: WLAN n mode MCS0 Ch 6 Pwr 11
Operating conditions: Humidity: 40%rH; Temperature: 20°C

Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

HW Version: 6794G05

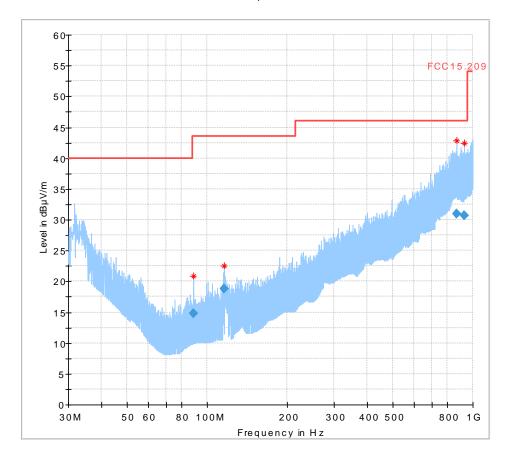
SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC

Full Spectrum



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
88.788000	14.75	43.50	28.75	1000.0	120.000	150.0	V	272.0	8.1
115.836000	18.78	43.50	24.72	1000.0	120.000	286.0	Н	0.0	8.0
871.796000	30.93	46.00	15.07	1000.0	120.000	109.0	V	342.0	26.2
927.972000	30.76	46.00	15.24	1000.0	120.000	341.0	Н	117.0	27.0



1.3. Field strength measurements 1 GHz <f < 25 GHz Diagram No. 4.01_WLAN_b mode_1Mbps_Ch1_Pwr14

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical
Operation mode: TX, continuous

Operator Name: RIs Comment: Channel 1

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

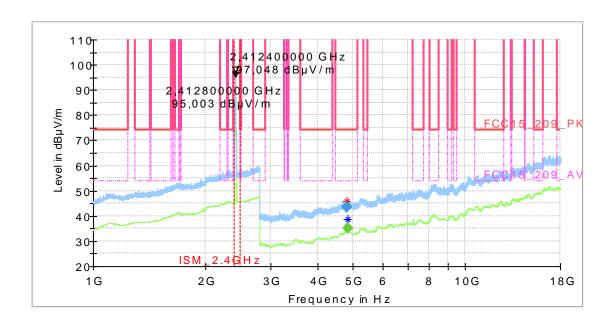
HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidth (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Elevatio n (deg)
4809.890000	43.48		74.00	30.52	100.0	1000.000	155.0	V	107.0	90.0
4823.930000		34.95	54.00	19.05	100.0	1000.000	155.0	V	48.0	90.0



Diagram No.: 4.01a_WLAN_bmode_1Mbps_Ch1_PWR14

Common Information

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247, 15.205&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Distance correction factor 3 to 1m: -10.5 dB applying to measurement results

SW-Version: EMC32 V8.53.0 Operation mode: TX mode continuous

Operator Name: YSa Comment: Channel 1

FCC_Sweep_15.247_18_25GHz_Pre

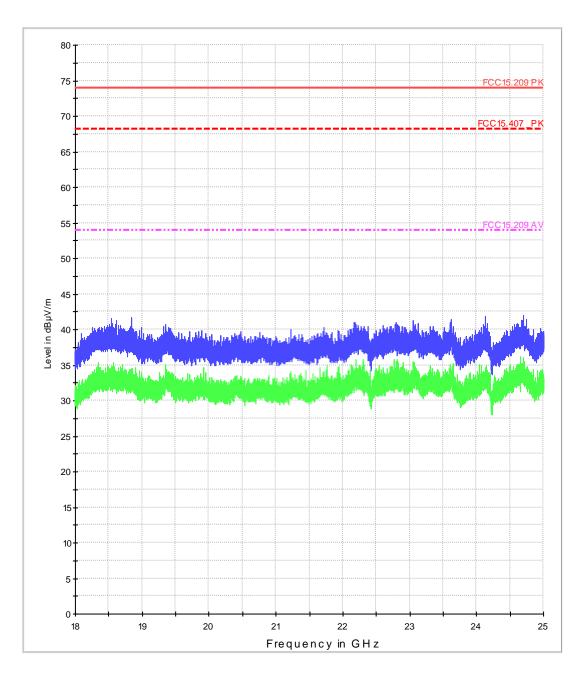




Diagram No. 4.02_WLAN_g mode_24Mbps_Ch11_Pwr11

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical
Operation mode: TX, continuous
Operator Name: RIs
Comment: Channel 11

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

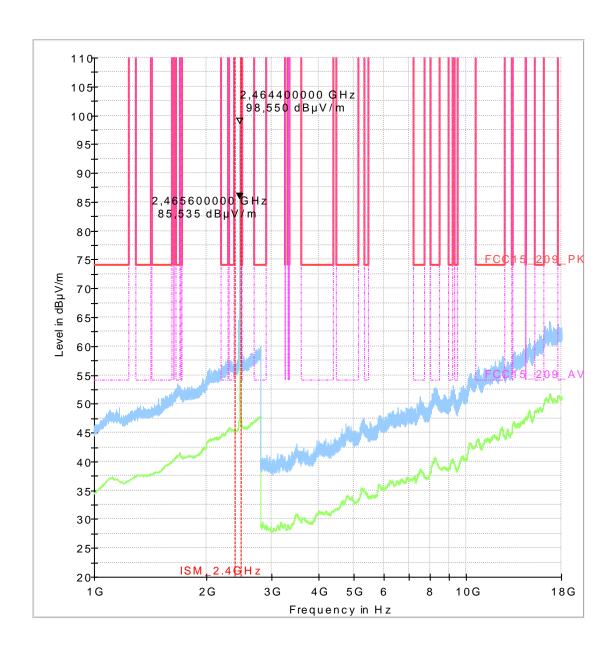




Diagram No.: 4.02a_WLAN_gmode_24Mbps_Ch11_PWR11

Common Information

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247, 15.205&15.209 Intentional Radiator

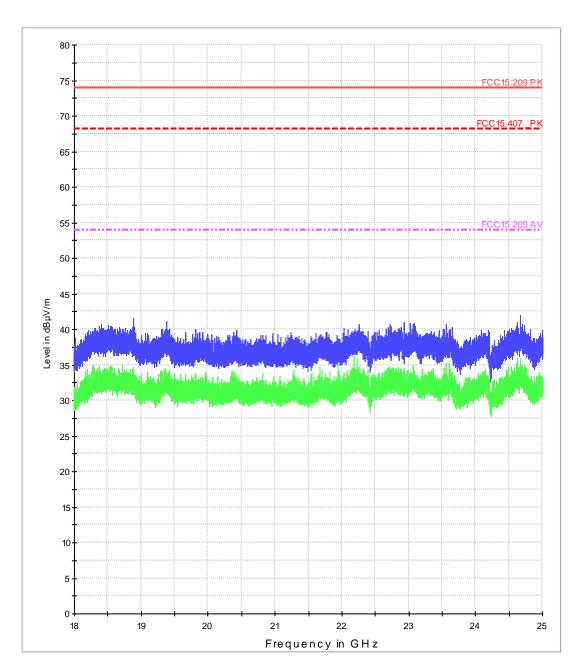
Antenna polarisation: horizontal/vertical

Distance correction factor 3 to 1m: -10.5 dB applying to measurement results

SW-Version: EMC32 V8.53.0 Operation mode: TX mode continuous

Operator Name: YSa
Comment: Channel 11

 $FCC_Sweep_15.247_18_25GHz_Pre$





$Diagram\ No.\ 4.03_WLAN_n(HT20)_MCS0_Ch6_Pwr11$

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical
Operation mode: TX, continuous
Operator Name: RIs
Comment: Channel 6

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

EuT: ECU CTPMIDDTNA

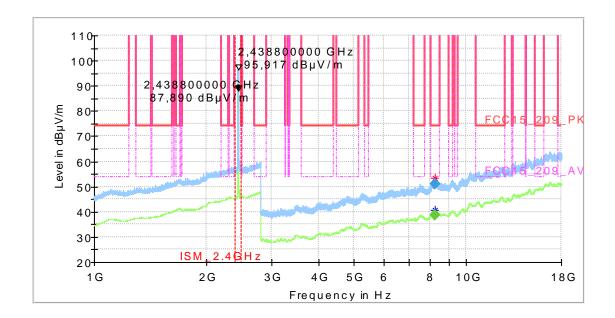
HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

Power Supply: 12 V DC



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidth (kHz)	Heigh t (cm)	Pol	Azimuth (deg)	Elevation (deg)
8216.250000	51.21		74.00	22.79	100.0	1000.000	155.0	Н	208.0	0.0
8232.890000		38.52	54.00	15.48	100.0	1000.000	155.0	V	18.0	0.0



Diagram No.: 4.03a_WLAN_nmode_2MSC0_Ch6_PWR11

Common Information

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247, 15.205&15.209 Intentional Radiator

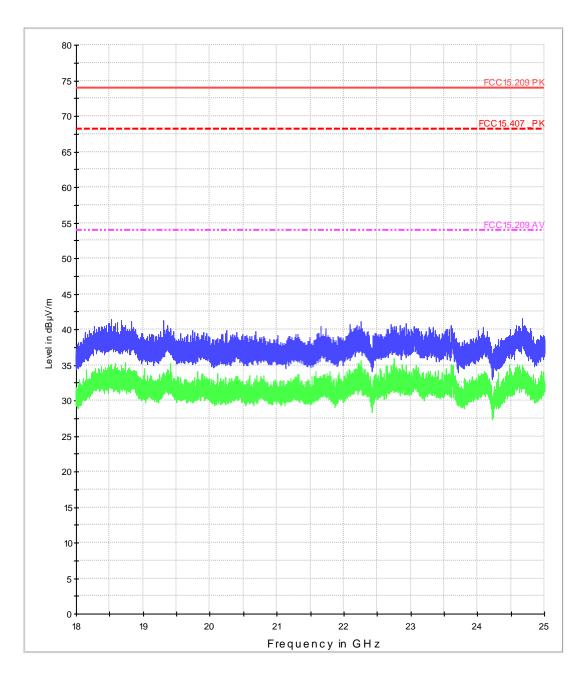
Antenna polarisation: horizontal/vertical

Distance correction factor 3 to 1m: -10.5 dB applying to measurement results

SW-Version: EMC32 V8.53.0 Operation mode: TX mode continuous

Operator Name: YSa
Comment: Channel 6

FCC_Sweep_15.247_18_25GHz_Pre





2. Radiated band-edge measurements accord. §15.209 & §15.205 (§15.247)

2.1. b mode Channel 1 (left band edge)

Diagram No.: 9.01_BE_WLAN_b mode_1Mbps_Ch1_Pwr14

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical
Operation mode: TX, continuous
Operator Name: KIv

Comment: Channel 1 (low)

Comment2: WLAN2.4GHz 1Mbit, Power level: 14

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

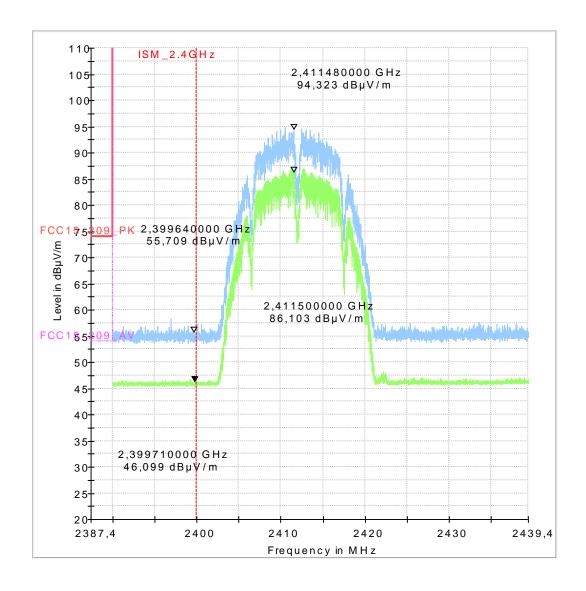
EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003846

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna





2.2. b mode Channel 11 (right band edge)

9.02_BE_WLAN_b mode_1Mbps_Ch11_Pwr14

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical Operation mode: TX, continuous

Operator Name: RIs

Comment: Channel 11 / high

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

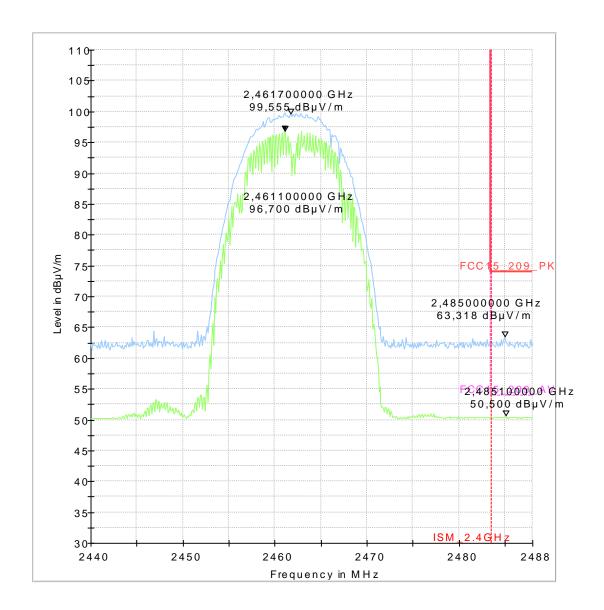
EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna





2.3. g mode Channel 1 (left band edge)

Diagram No.: 9.03_BE_WLAN_g mode_24Mbps_Ch1_Pwr11

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical
Operation mode: TX, continuous

Operator Name: HLa

Comment: Channel no. 1 low

Comment2: Modulation Type: g-mode Data Rate:24Mbps

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

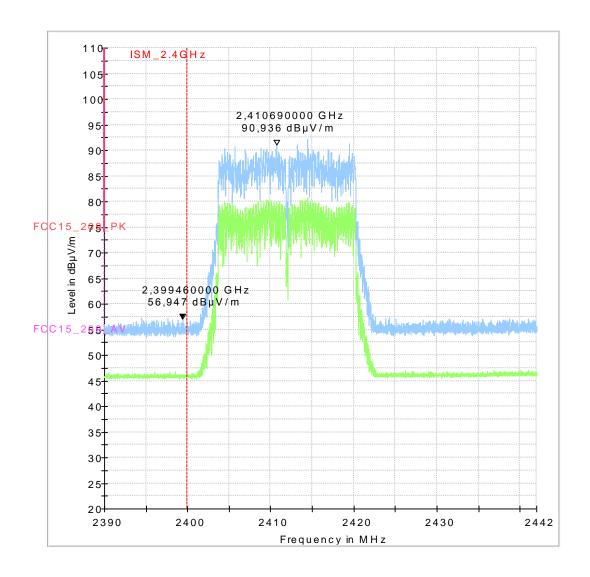
EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003846

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna





2.4. g mode Channel 11 (right band edge)

Diagram No. 9.04_BE_WLAN_g mode_24Mbps_Ch11_Pwr11

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical Operation mode: TX, continuous RIs

Operator Name:

Comment: Channel 11 / high

EUT Information

Bosch Car Multimedia Portugal, S.A. Manufacturer:

EuT: ECU CTPMIDDTNA

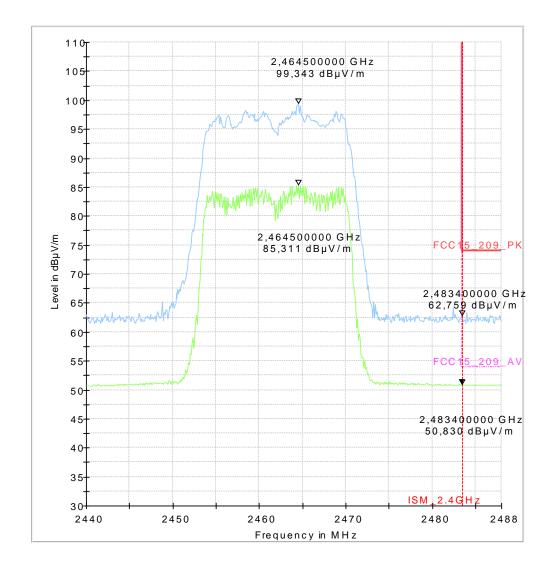
HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: $USB\text{-}cable + main\ wiring + GSM/GNSS\ antenna + WLAN\ antenna$

Power Supply:





2.5. n mode Channel 1 (left band edge)

Diagram No.: 9.05_BE_WLAN_n mode_MCS0_Ch1_Pwr11

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical
Operation mode: TX, continuous

Operator Name: HLa

Comment: Channel no. low

Comment2: Modulation Type: n-mode Data Rate:MCS0

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

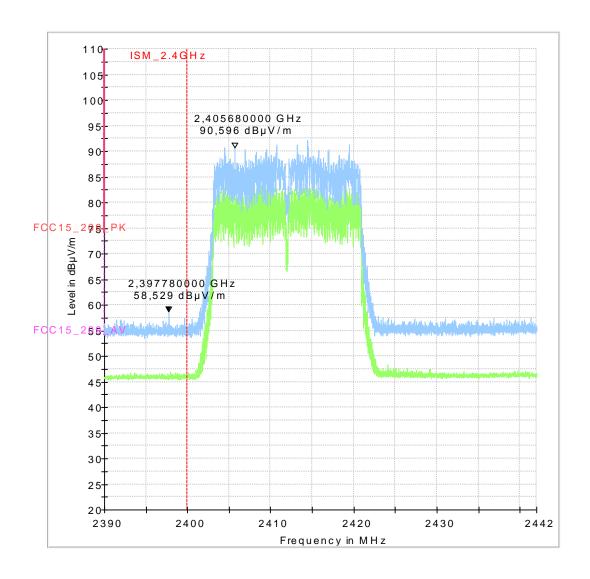
EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003846

 $Connected\ Interfaces: \qquad \qquad USB-cable+main\ wiring+GSM/GNSS\ antenna+WLAN\ antenna$





2.6. n mode Channel 11 (right band edge)

9.06_BE_WLAN_n(HT20)_MCS0_Ch11_Pwr11

Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical Operation mode: TX, continuous

Operator Name: RIs

Comment: Channel 11 / high

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.

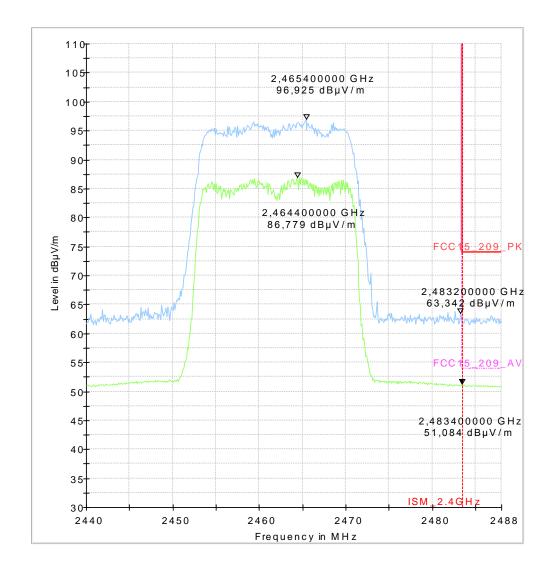
EuT: ECU CTPMIDDTNA

HW Version: 6794G05

SW Version: DAIMLER_CTP_16.095.2

Serial Number: 2820003843

Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna

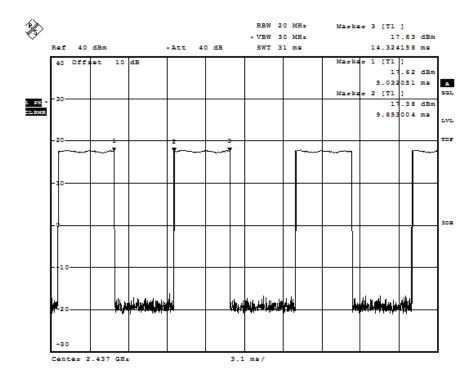




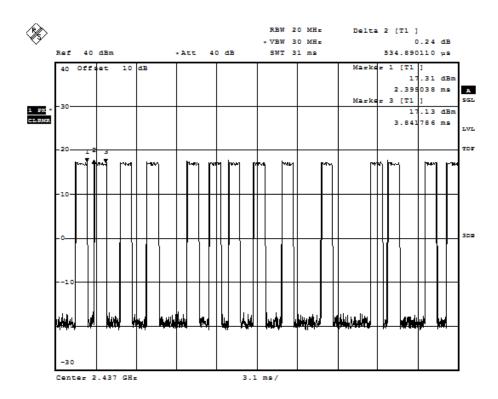
3. Conducted RF-measurements on antenna port

3.1. Duty cycle

3.1.1. b-mode



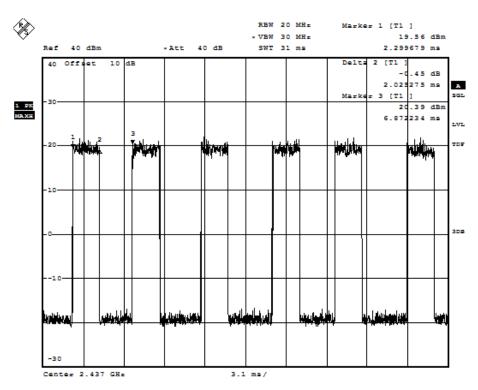
DC_CH6_1Mbit



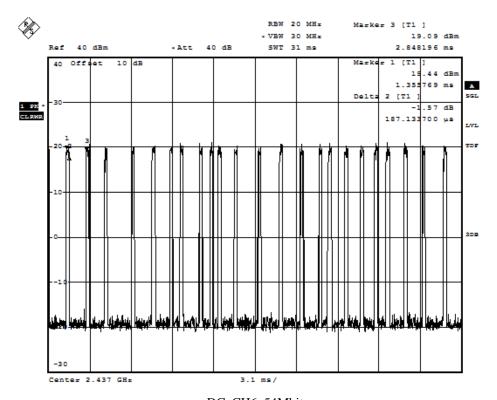
DC_CH6_11Mbit



3.1.2. g-mode



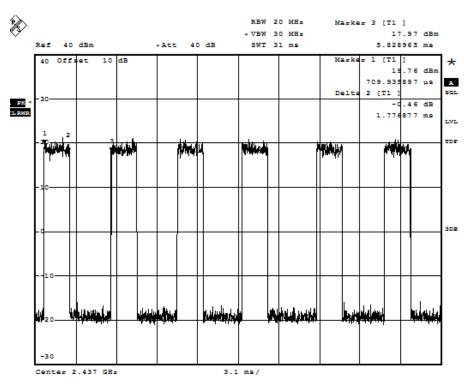
DC_CH6_6Mbit



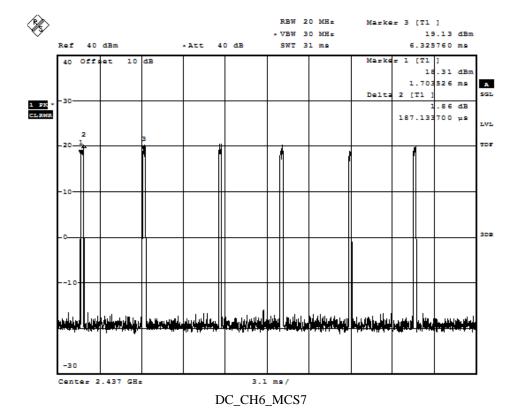
 DC_CH6_54Mbit



3.1.3. n-mode



DC_CH6_MCS0



CETECOM_TR16-1-0141801T04a-C1-A1



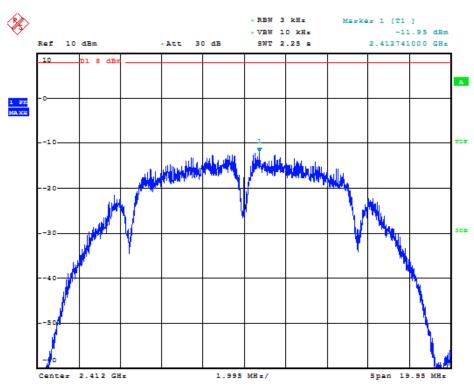
3.2. Maximum peak conducted output power

WLAN 2.4 GHz Conducted Peak Power Measurements										
	EUT Name	ECU CTPMIDDTNA		Hardware Version		6794G05				
EUT Information	Manufacturer	Robert Bosch Car Multimedia GmbH		Software Version		DAIMLER_CTP_16.095.2				
	Serial Number	2820003	3846	Antenna Gain		1.7dBi				

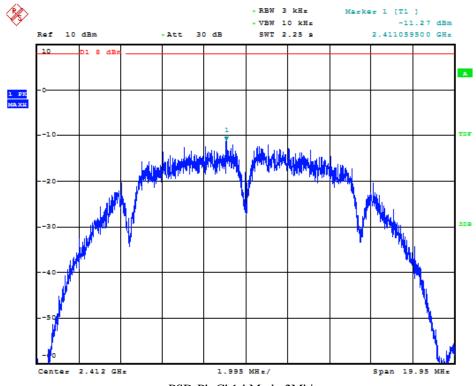
WLAN 2.4GHz b-Mode		Chann	el No. (Frequency	MHz)	b-Mode	
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)	Maximum Value	Power Units
1MBit		12,72	12,32	12,32		
2Mbit		12,62	12,29	12,30	12.72	dBm
5.5Mbit		11,69	11,77	11,22	12,72	аьт
11MBit		12,15	11,77	11,75		
	WLAN 2.4	GHz Conducted Pea	k Power Limits		30.0	dBm
WLAN 2.4GI	Hz g-Mode	Chann	el No. (Frequency	MHz)	g-Mode	Power Units
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)	Maximum Value	rower omes
6Mbit		11,05	10,61	10,59		
9Mbit		11,27	10,65	10,71		
12Mbit		11,27	10,72	10,69		
18Mbit		11,09	10,73	10,69	11,31	dBm
24Mbit		11,31	10,7	10,77	11,51	ubili
36Mbit		11,15	10,59	10,65		
48Mbit		11,08	10,51	10,59		
54MBit		11,08	10,55	10,6		
	WLAN 2.4	GHz Conducted Pea	k Power Limits	30.0	dBm	
WLAN 2.4GHz	n-Mode HT20	Chann	el No. (Frequency	MHz)	n-Mode HT20	Power Units
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)	Maximum Value	1 ower omes
MCS0 -6.5Mbps	BPSK	11,05	11,15	10,59		
MCS1 - 13Mbps	QPSK	11,08	10,59	10,67		
MCS2 - 19.5Mbps	QPSK	10,89	10,65	10,59		
MCS3 - 26Mbps	QAM16	10,91	10,62	10,6	11,15	dBm
MCS4 -39Mbps	QAM16	10,96	10,49	10,59	11,13	uDili
MCS5 - 52MBps	QAM64	10,98	10,58	10,59		
MCS6 - 58.5MBps	QAM64	10,98	10,49	10,59		
MCS7 - 65MBps	QAM64	11,05	10,58	10,12		
	WLAN 2.4	GHz Conducted Pea	k Power Limits		30.0	dBm



3.3. RF-Parameter - Power Spectral Density 3.3.1. b-mode

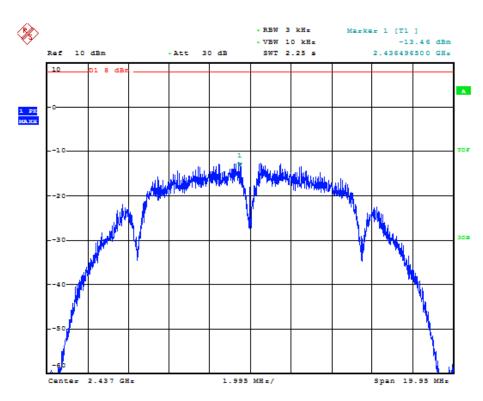


PSD-Pk-Ch1-bMode-1Mbit

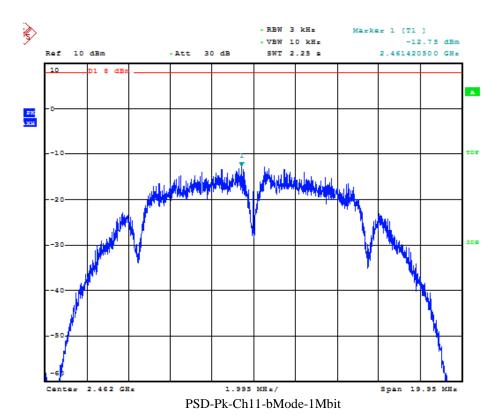


PSD-Pk-Ch1-bMode-2Mbit



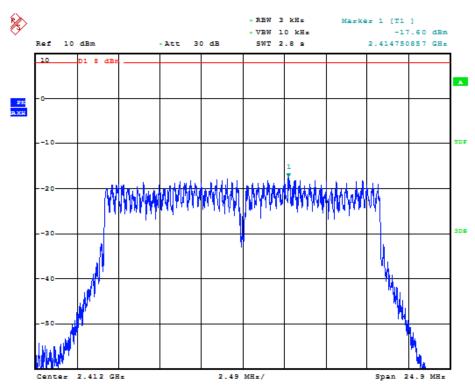


PSD-Pk-Ch6-bMode-1Mbit

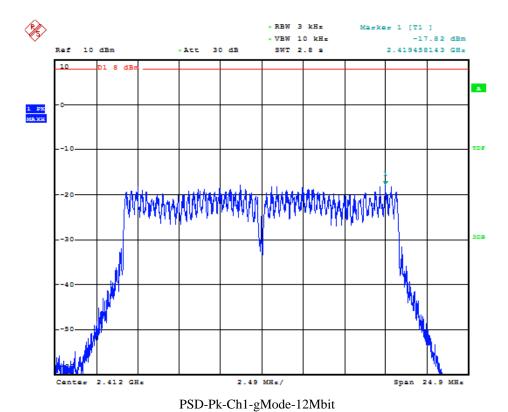




3.3.2. g-mode

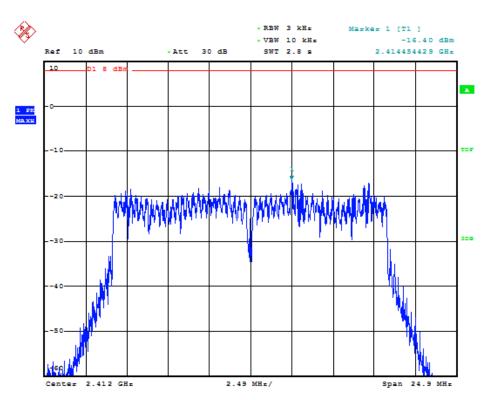


PSD-Pk-Ch1-gMode-9Mbit

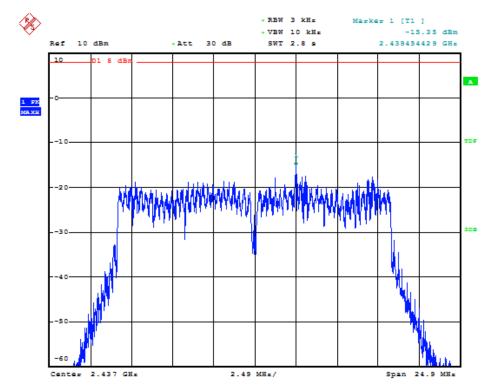


CETECOM_TR16-1-0141801T04a-C1-A1



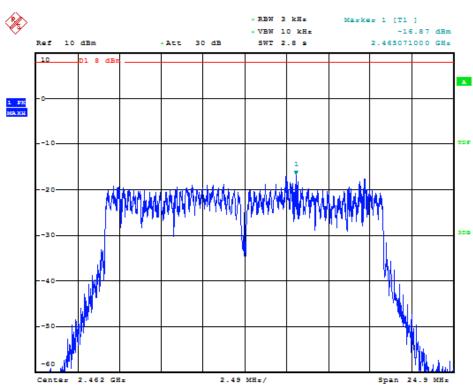


PSD-Pk-Ch1-gMode-24Mbit



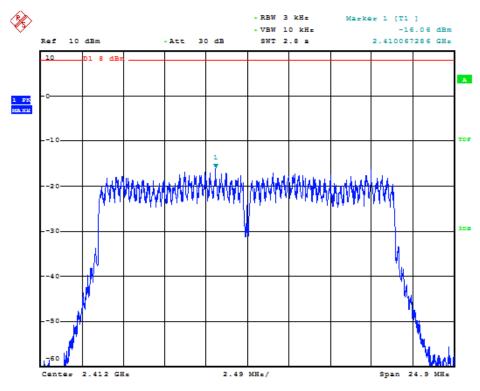
PSD-Pk-Ch6-gMode-24Mbit





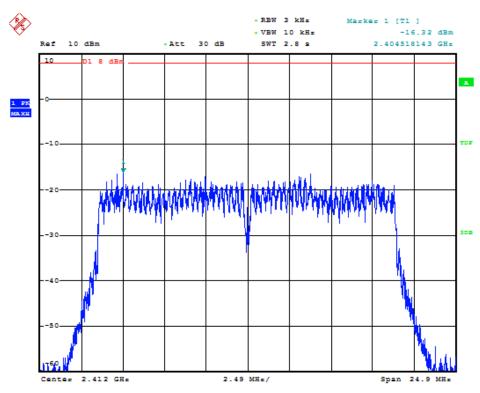
PSD-Pk-Ch11-gMode-24Mbit

3.3.3. n-mode

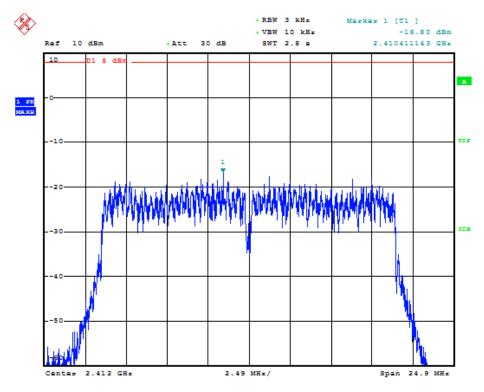


PSD-Pk-Ch1-nMode-MCS0



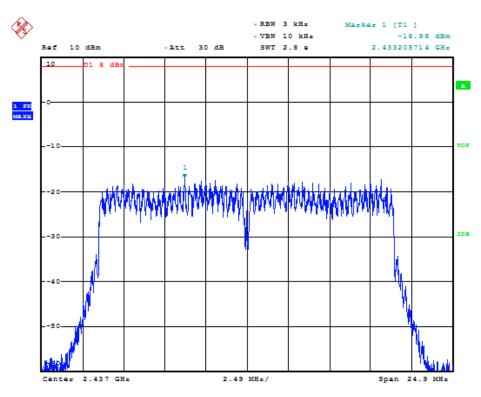


PSD-Pk-Ch1-nMode-MCS1

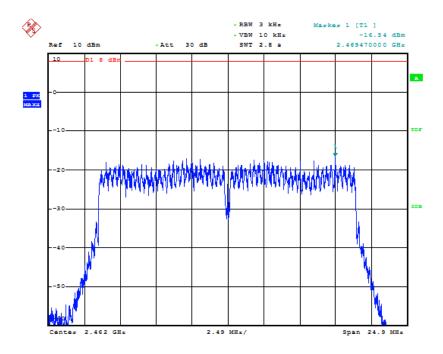


PSD-Pk-Ch1-nMode-MCS7





PSD-Pk-Ch6-nMode-MCS0



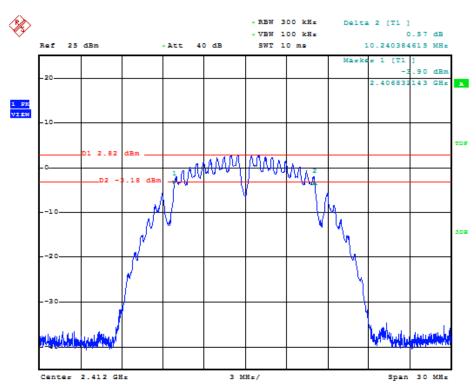
Date: 16.DEC.2016 12:03:36

PSD-Pk-Ch11-nMode-MCS0

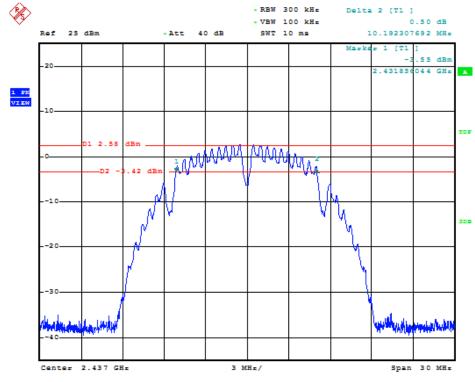


3.4. RF-Parameter - 6 dB Bandwidth

3.4.1. b-mode

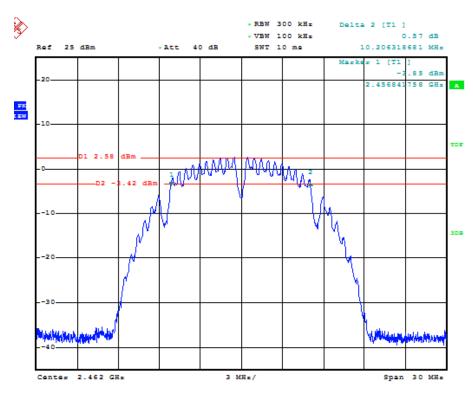


6dB-BW-Ch1-bMode-1Mbit



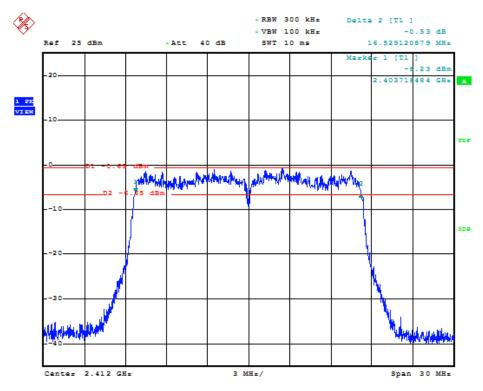
6dB-BW-Ch6-bMode-1Mbit





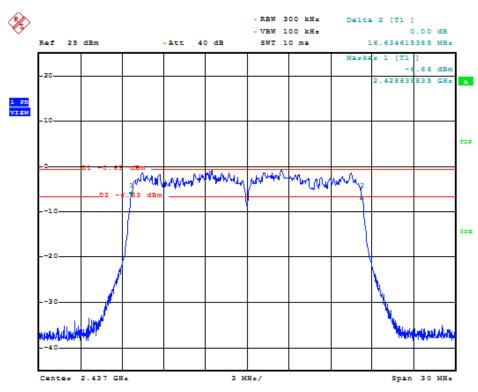
6dB-BW-Ch11-bMode-1Mbit

3.4.2. g-mode

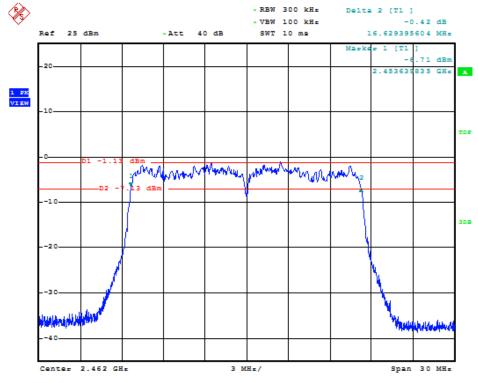


6dB-BW-Ch1-gMode-24Mbit





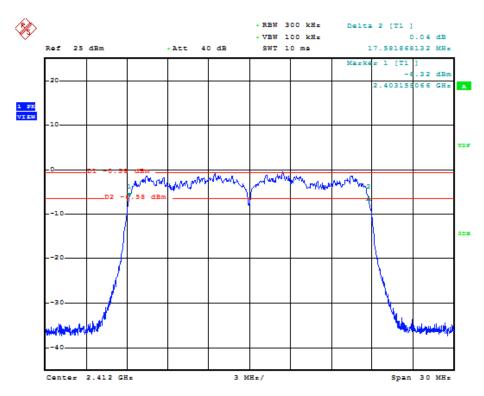
6dB-BW-Ch6-gMode-24Mbit



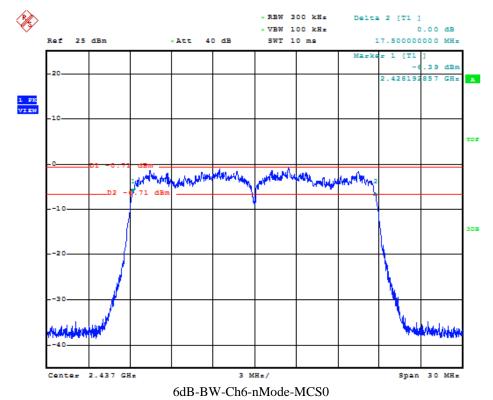
6dB-BW-Ch11-gMode-24Mbit



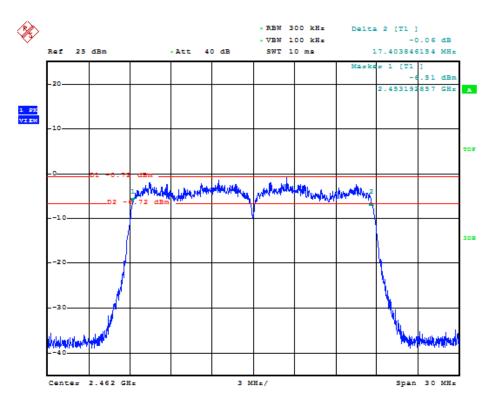
3.4.3. n-mode



6dB-BW-Ch1-nMode-MCS0





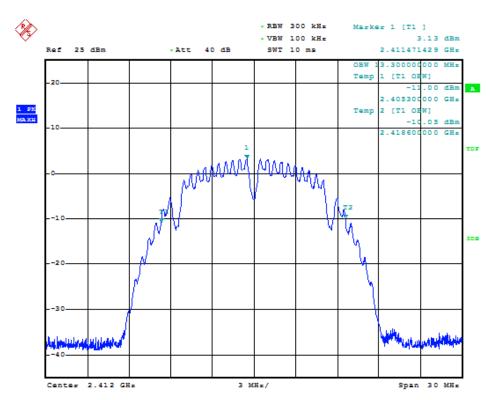


6dB-BW-Ch11-nMode-MCS0

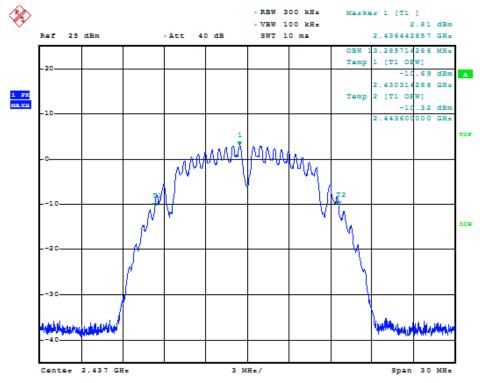


3.5. RF-Parameter - 99% occupied Bandwith

3.5.1. b-mode

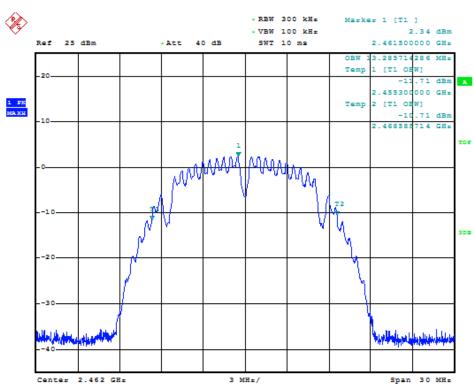


99%-BW-Ch1-bMode-1Mbit



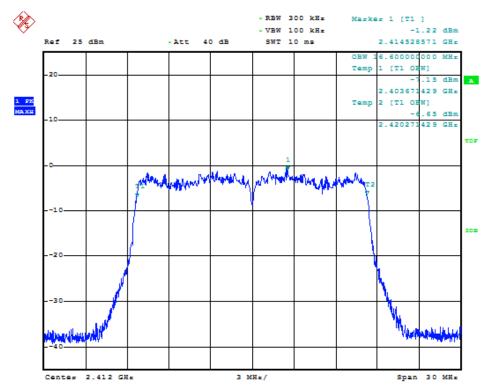
99%-BW-Ch6-bMode-1Mbit





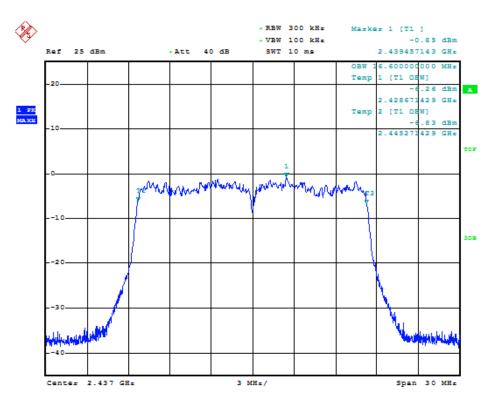
99%-BW-Ch11-bMode-1Mbit

3.5.2. g-mode

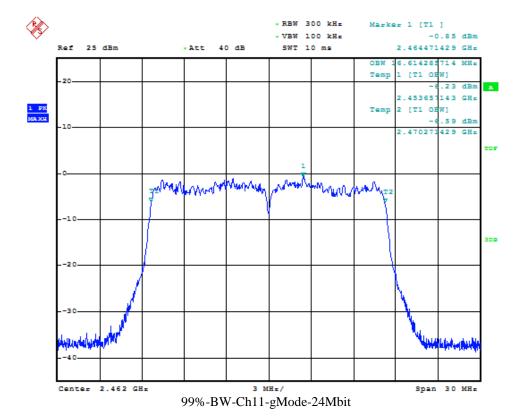


99%-BW-Ch1-gMode-24Mbit



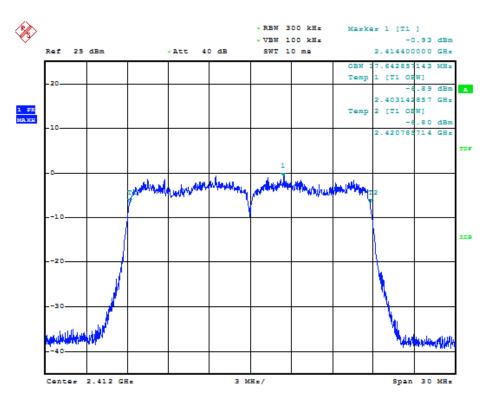


99%-BW-Ch6-gMode-24Mbit

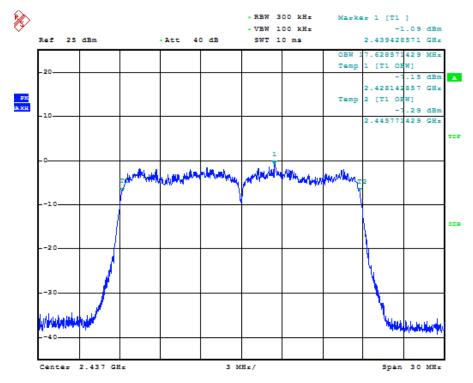




3.5.3. n-mode

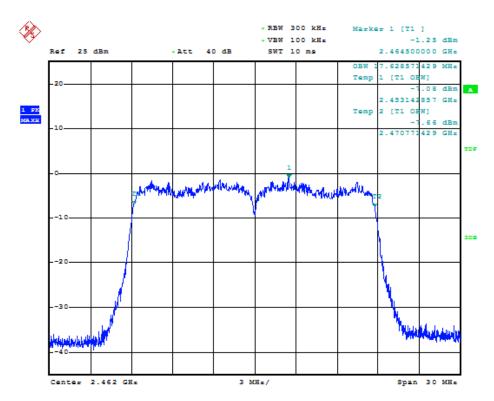


99%-BW-Ch1-nMode-MCS0



99%-BW-Ch6-nMode-MCS0





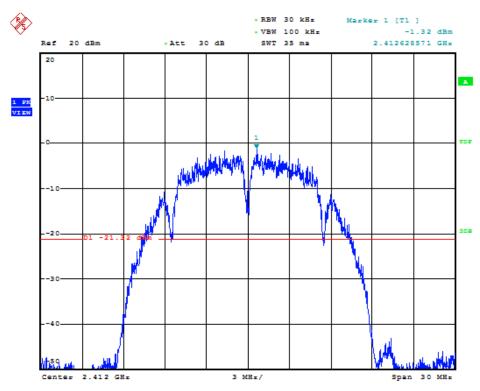
99%-BW-Ch11-nMode-MCS0



3.6. 20 dBc power specification

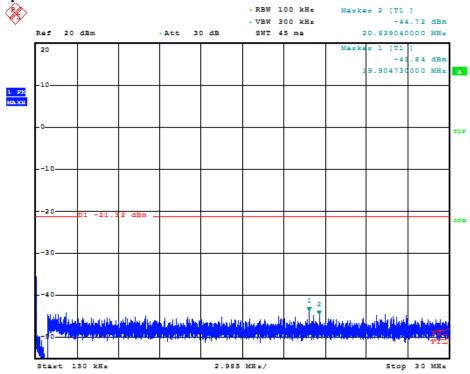
3.6.1. b-mode

b-mode Channel 1 Reference



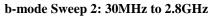
20dBc-Ref-Ch1-bMode-1MBit

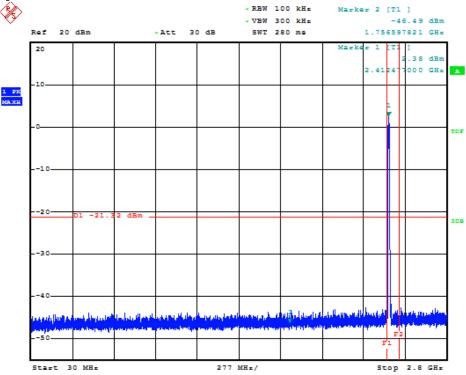
b-mode Sweep 1: 150kHz to 30MHz



20dBc-0.15-30MHz-Ch1-bMode-1MBit

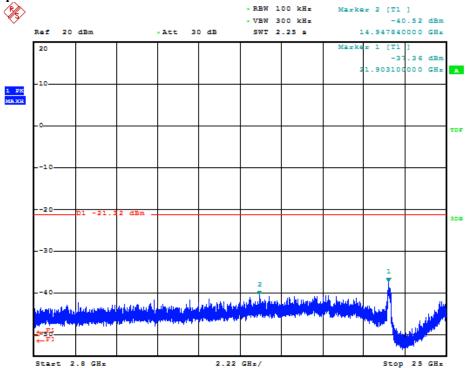






20dBc--30MHz-2.8GHz-Ch1-bMode-1Mbit

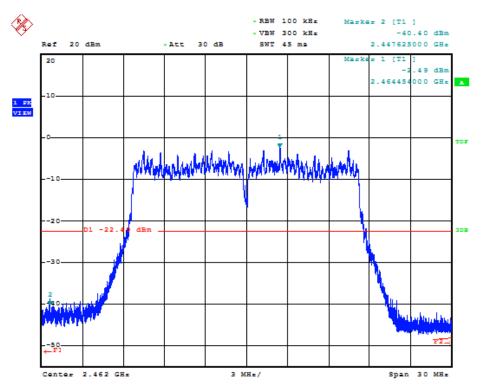
b-mode Sweep3: 2.8GHz to 25GHz



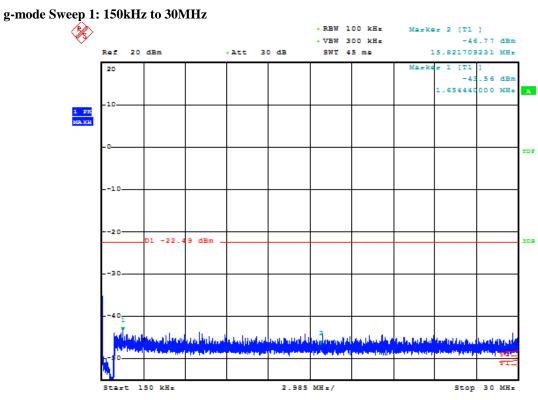
20dBc--2.8GHz-25GHz-Ch1-bMode-1Mbit



3.6.2. g-mode g-mode Channel 11 Reference

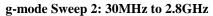


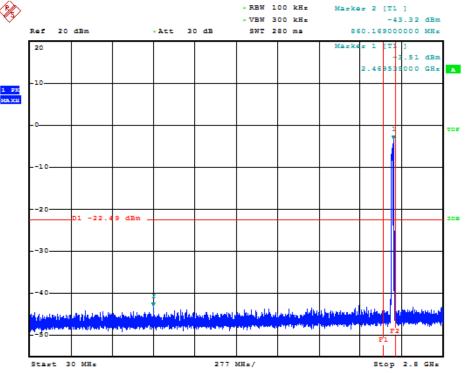
20dBc-Ref-Ch11-gMode-24Mbit



20dBc-0.15-30MHz--Ch11-gMode-24MBit

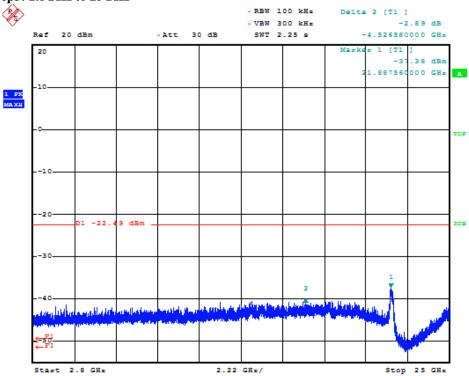






20dBc-30MHz-2.8GHz--Ch11-gMode-24Mbit

g-mode Sweep3: 2.8GHz to 25GHz

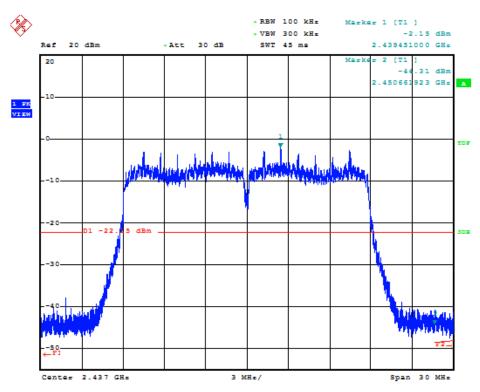


20dBc-2.8GHz-25GHz--Ch11-gMode-24Mbit

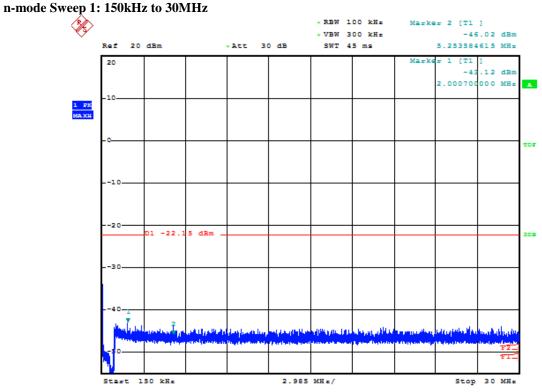


3.6.3. n-mode

n-mode Channel 6 Reference

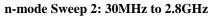


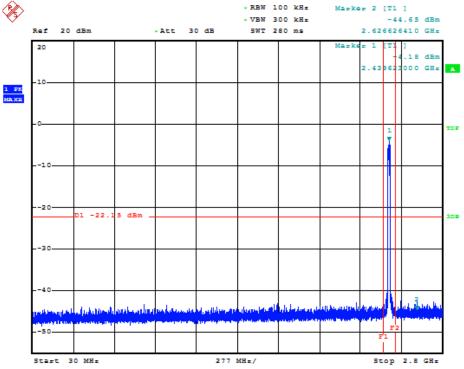
20dBc-Ref-Ch6-nMode-MCS0



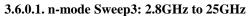
20dBc-0.15-30MHz-Ch6-nMode-MCS0

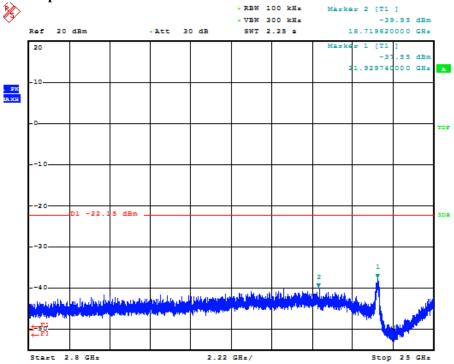






20dBc-30MHz-2.8GHz-Ch6-nMode-MCS0





20dBc-2.8GHz-25GHz-Ch6-nMode-MCS0