

Annex1: Measurement diagrams to
T E S T R E P O R T
 No.: TR6-0754-15-1-3e

According to:
FCC Regulations
 Part 15.109
 Part 15.209
 Part 15.247

IC-Regulations
 RSS-Gen, Issue 4
 RSS-247, Issue 1

for

peiker acoustic GmbH & Co. KG

Advanced Telecommunication
 Module
 ATM-01 T1-US-4GW

FCC-ID: QWY-ATM-T-522
IC ID: 6588A-ATMT522
 PMN: ATM trunk version
 HVIN: ATM-01 T1-US-4GW

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 CTIA Authorized Test Lab LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
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Table of contents

1. RADIATED FIELD STRENGTH MEASUREMENTS ACCORD. §15.209&15.2053

1.1. Magnetic field measurements $f < 30\text{MHz}$ 3

1.2. Field strength measurements $30\text{MHz} < f < 1\text{GHz}$6

1.3. Field strength measurements $f < 18\text{GHz}$ 9

2. RADIATED BAND-EDGE MEASUREMENTS ACCORD. §15.209 & §15.205 (§15.247) 17

2.1. Channel 1 (left band edge) 17

2.2. Channel 13 (right band edge) 20

3. CONDUCTED RF-MEASUREMENTS ON ANTENNA PORT23

3.1. Conducted RF-power23

3.2. 6-dB Bandwidth24

3.3. 99% Occupied Bandwidth.....26

3.4. Power Spectral Density29

3.5. 20dBc Emissions35

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

1.1. Magnetic field measurements f<30MHz

1.1.1. b-Mode Modulation, Channel 1, 11MBit-data rate

Diagram No. 2.01_Channel-1_b-Mode-11Mbit

Date: 26.08.2015 Page 1 of 1
 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 V8.51.0
 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

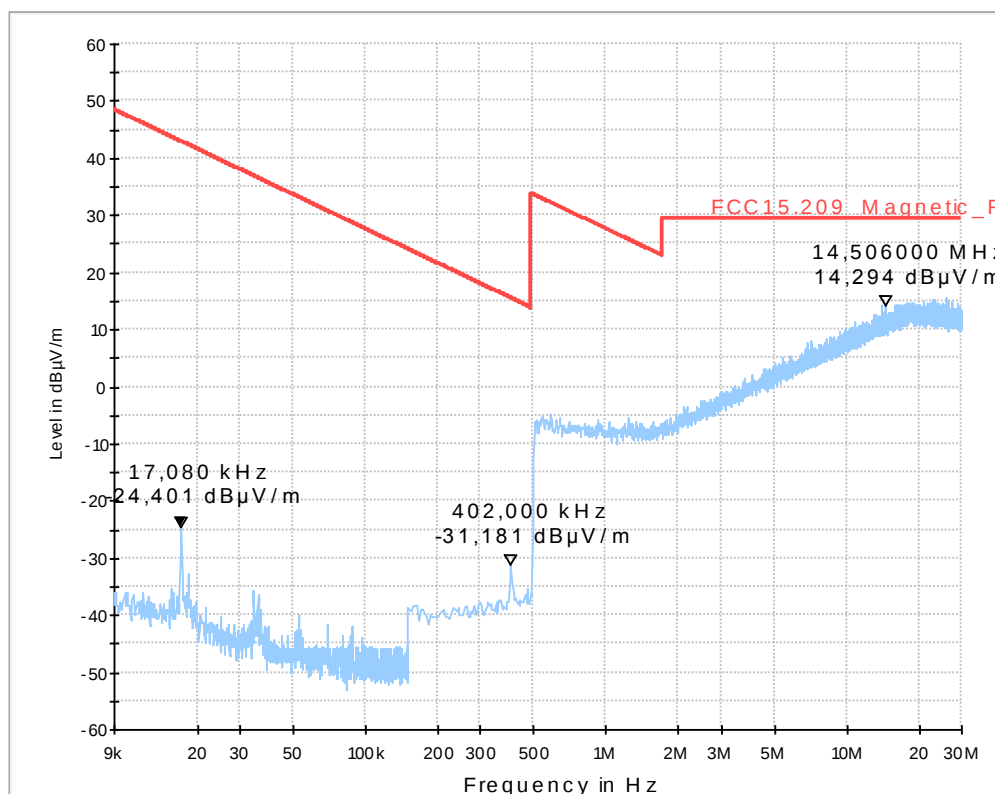
Operator: Aho/MRa
 Operating conditions: TX-on continuous
 Power during tests: 14V DC
 Comment 1: Channel low=1, b-Mode, 11MBit
 Comment 2: EUT laying

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EuT: ATM-01 T1-US-4GW

HW Version: 212.007.007
 SW Version: 001.018.103
 Serial Number: 0000586177
 Connected Interfaces:
 Power Supply: 14 VDC

FCC15.209_ANSI63_10_2013



1.1.2. g-Mode Modulation, 36MBit

Diagram No. 2.02_Channel-6_g-Mode,36Mbit_EUT Laying

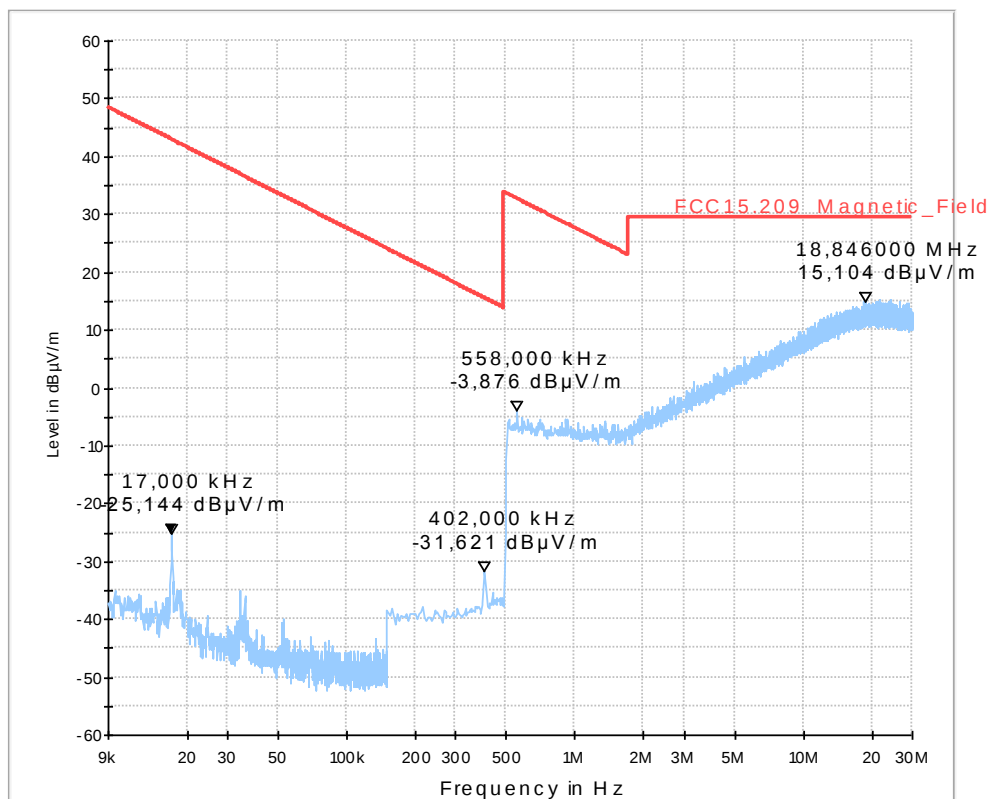
Test description:	26.08.2015 Page 1 of 1
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Used filter:	3 m
Technical Data:	not used
Test specification.:	please see page 2 for detailed data of measurement setup
Operator:	FCC 15.209/15.205; RSS-Gen., Issue 4
Operating conditions:	AHo/MRa
Power during tests:	continuous TX
Comment 1	14 V DC
Comment 2	Channel Middle =6,g-mode/36 Mbit
	EUT Laying

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW

HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000586177
Connected Interfaces:	
Power Supply:	14 VDC

FCC15.209_ANSI63_10_2013



1.1.3. n-Mode Modulation

Diagram No. 2.03_MCS0_n-Mode_EUT Standing

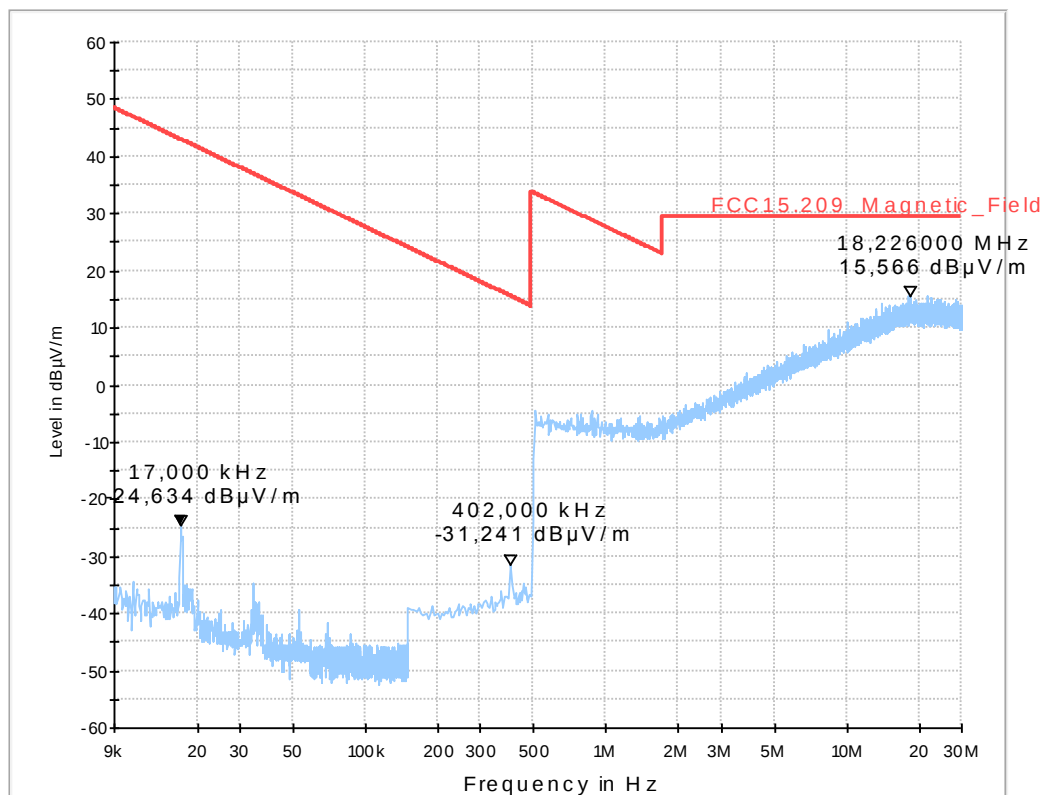
Test description:	26.08.2015 Page 1 of 1
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification.:	bypass
	FCC 15.209/15.205; RSS-Gen., Issue 4
Operator:	MRa/AHo
Operating conditions:	TX-on continuous
Power during tests:	14 V DC
Comment 1:	Channel high=13, n-mode, MCS0
Comment 2:	EUT Standing

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW

HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000586177
Connected Interfaces:	
Power Supply:	14 VDC

FCC15.209_ANSI63_10_2013



1.2. Field strength measurements 30MHz <f <1GHz

1.2.1. b-Mode Modulation

Diagram No. 3.01_Channel-1_b-Mode,11 Mbit_EUT Laying

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 V8.51.0
 Distance correction: 10.54 dB
 Used filter: TP NLP-1200
 Technical Data: please see page 2 for detailed data of measurement setup
 Test specification.: FCC 15.209; RSS-Gen., Issue 4

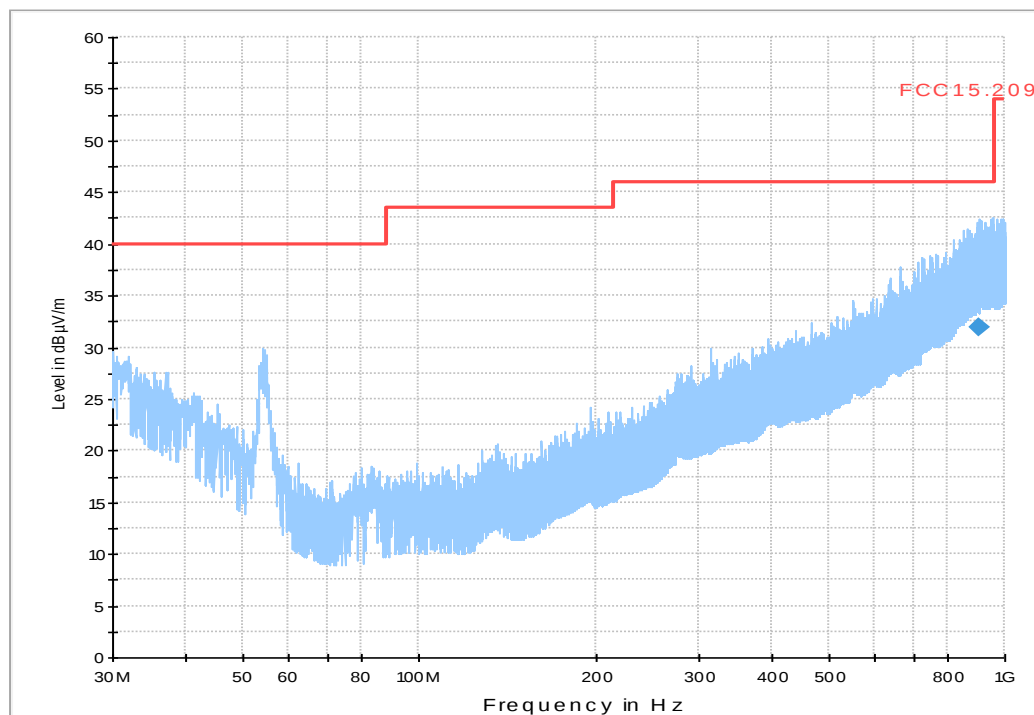
Operator: AHo
 Operating conditions: WLAN,Channel=1,b-mode,11 Mbit
 Power during tests: 14 V DC
 Comment 1: Laying

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EuT: ATM-01 T1-US-4GW

HW Version: 212.007.007
 SW Version: 001.018.103
 Serial Number: 0000586177
 Connected Interfaces:
 Power Supply: 14 VDC

01_FCC15.209_hor+vert_KP0



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Correction (dB)	Margin (dB)	Limit (dBµV/m)
902.090000	31.9	1000.0	120.000	282.0	H	150.0	27.0	14.10	46.00

1.2.2. g-Mode Modulation

Diagram No. 3.02_Channel-6_g-Mode,36 Mbit_EUT Laying

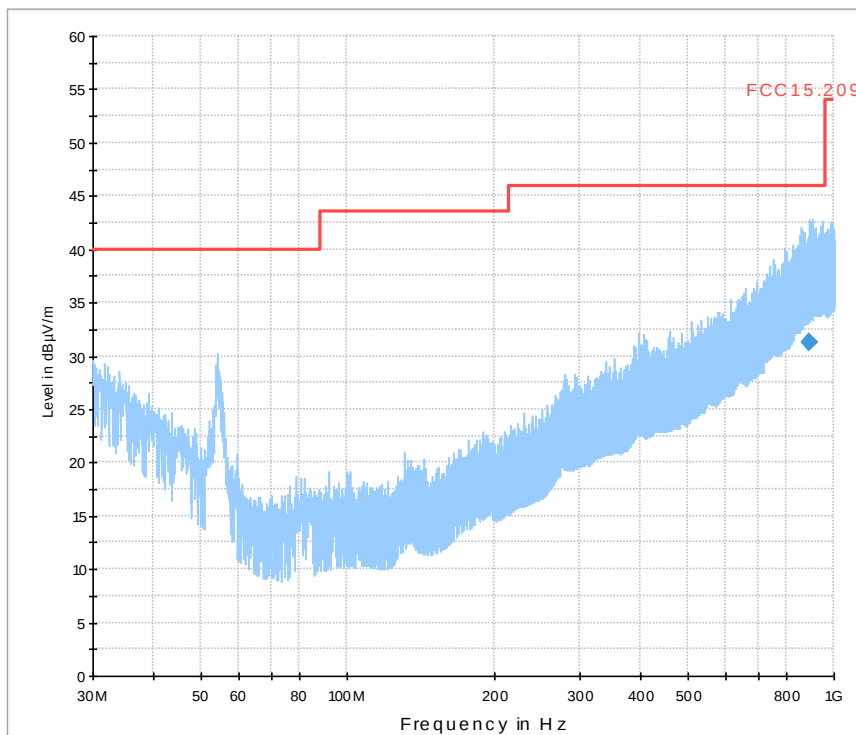
26.08.2015 Page 1 of 2
 Test description: Electric Field Strength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V8.51.0
 Distance correction: 10.54 dB
 Used filter: TP NLP-1200
 Technical Data: please see page 2 for detailed data of measurement setup
 Test specification.: FCC 15.209; RSS-Gen: Issue 3
 Operator: AHo
 Operating conditions: WLAN,Channel=6,g-mode,36 Mbit
 Power during tests: 14 V DC
 Comment 1: Laying

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EuT: ATM-01 T1-US-4GW

 HW Version: 212.007.007
 SW Version: 001.018.103
 Serial Number: 0000586177
 Connected Interfaces:
 Power Supply: 14 VDC

01_FCC15.209_hor+vert_KP0



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Correction (dB)	Marginal (dB)	Limit (dBµV/m)
890.600000	31.3	1000.0	120.000	105.0	H	86.0	26.7	14.70	46.00

1.2.3. n-Mode Modulation

Diagram No. 3.03_Channel-13_MCS0_n-Mode_EUT Standing

Test description: 26.08.2015 Page 1 of 1
 Test site and distance: Electric Field Strength Measurement
 Version of Testsoftware: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Distance correction: EMC32 V8.51.0
 Used filter: 10.54 dB
 Technical Data: not used
 Test specification.: please see page 2 for detailed data of measurement setup
 FCC 15.209; RSS-Gen: Issue 3

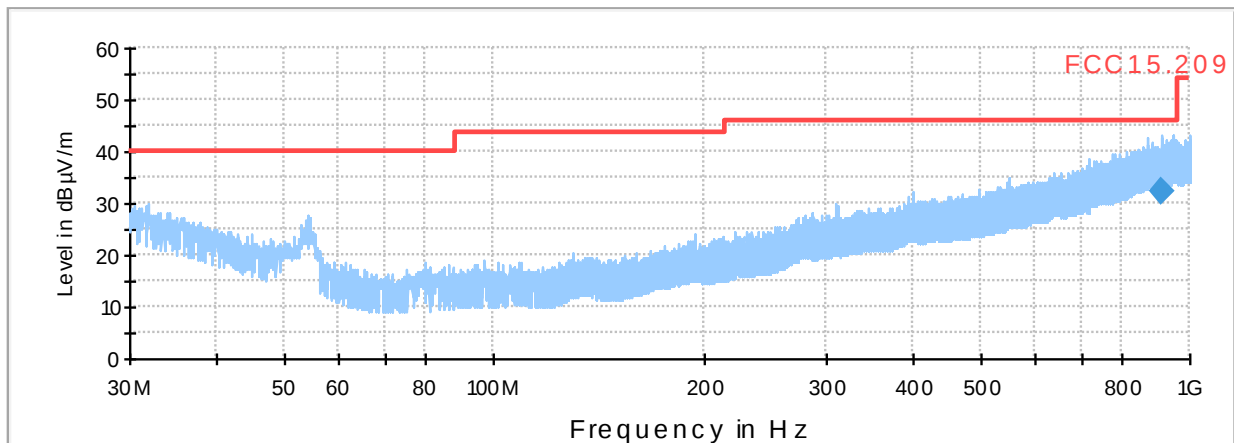
Operator: AHo
 Operating conditions: WLAN, Channel=13, MCS0, n-mode
 Power during tests: 14 V DC
 Comment 1: Standing

EUT Information

Manufacturer: peiker acoustic GmbH & Co. KG
 EuT: ATM-01 T1-US-4GW

HW Version: 212.007.007
 SW Version: 001.018.103
 Serial Number: 0000586177
 Connected Interfaces:
 Power Supply: 14 VDC

FCC15.109_hor+vert



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Correction (dB)	Margin (dB)	Limit (dBµV/m)
914.420000	32.2	1000.0	120.000	264.0	H	223.0	27.3	13.8	46.0

1.3. Field strength measurements $f < 18\text{GHz}$

1.3.1. b-Mode Modulation

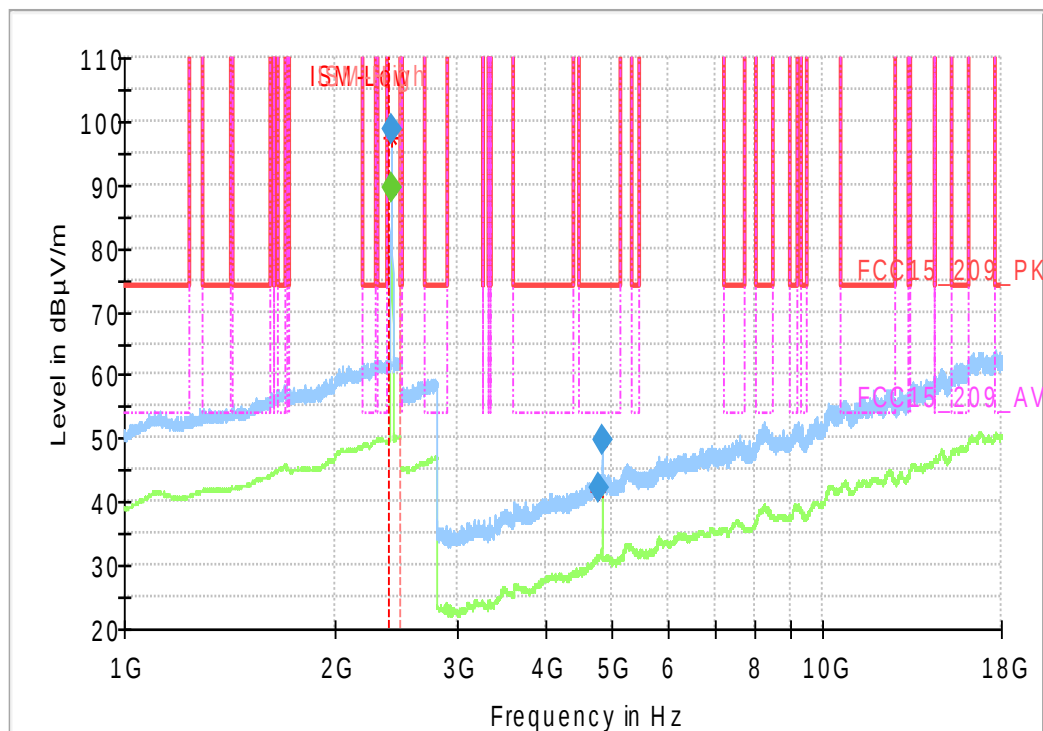
Diagram No.: 4.01_TX_CH1_b-Mode_11Mbit

Common Information

Test Description:	Radiated Field strength emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator / RSS-247: Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Kmo
Comment:	Channel no. low=1, b-Mode, 11MBit, 0dBm

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2412.640000	---	89.66	150.00	60.34	100.0	1000.000	155.0	H	25.0	90.0
2413.800000	98.84	---	150.00	51.16	100.0	1000.000	155.0	V	8.0	90.0
4769.200000	42.33	---	74.00	31.67	100.0	1000.000	155.0	H	168.0	90.0
4824.160000	49.67	---	74.00	24.33	100.0	1000.000	155.0	V	35.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2412.640000	35.4
2413.800000	35.4
4769.200000	4.8
4824.160000	4.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2412.640000	---	89.66	150.00	60.34	100.0	1000.000	155.0	H	25.0	90.0
2413.800000	98.84	---	150.00	51.16	100.0	1000.000	155.0	V	8.0	90.0
4769.200000	42.33	---	74.00	31.67	100.0	1000.000	155.0	H	168.0	90.0
4824.160000	49.67	---	74.00	24.33	100.0	1000.000	155.0	V	35.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2412.640000	35.4
2413.800000	35.4
4769.200000	4.8
4824.160000	4.8

Diagram No.: 4.04_TX_CH6_b-Mode_11MBit

Common Information

Test Description:	Radiated Field strength emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator / RSS-247: Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. middle=6, 11MBit, 0dBm setting

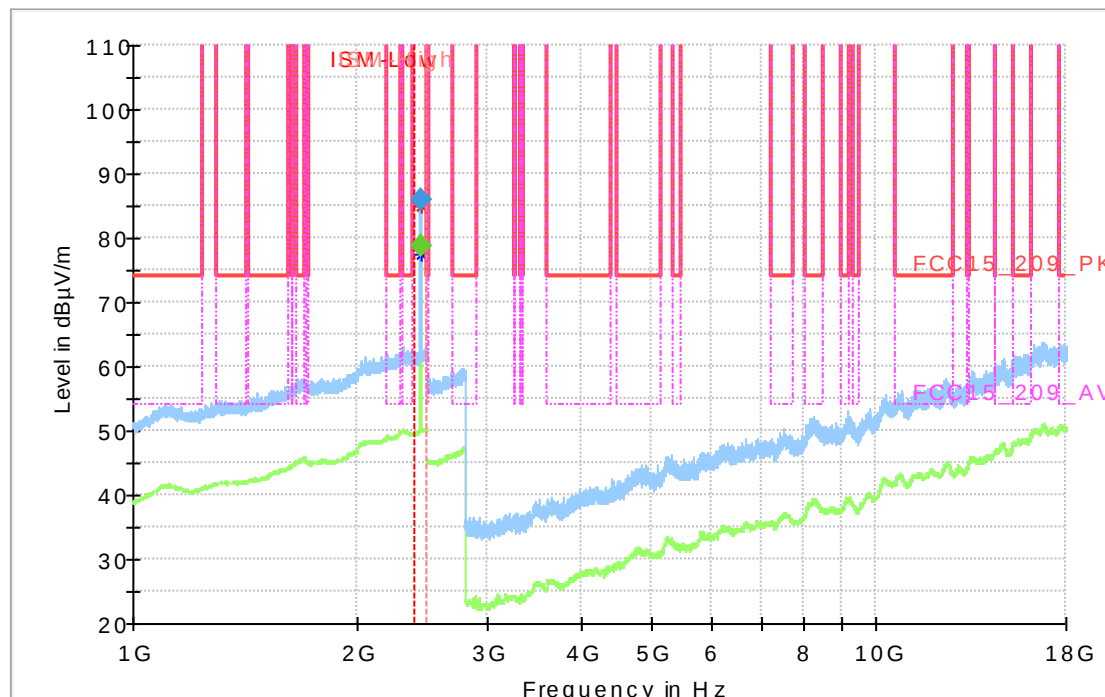
EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	

Common Information

Test Description:	Radiated Field strength emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator / RSS-247: Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. middle=6, 11MBit, 0dBm setting

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2435.440000	86.09	---	150.00	63.9	100.0	1000.000	155.0	V	9.0	90.0
2435.880000	---	78.68	150.00	71.3	100.0	1000.000	155.0	V	9.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2435.440000	35.5
2435.880000	35.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2435.440000	86.09	---	150.00	63.91	100.0	1000.000	155.0	V	9.0	90.0
2435.880000	---	78.68	150.00	71.32	100.0	1000.000	155.0	V	9.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2435.440000	35.5
2435.880000	35.5

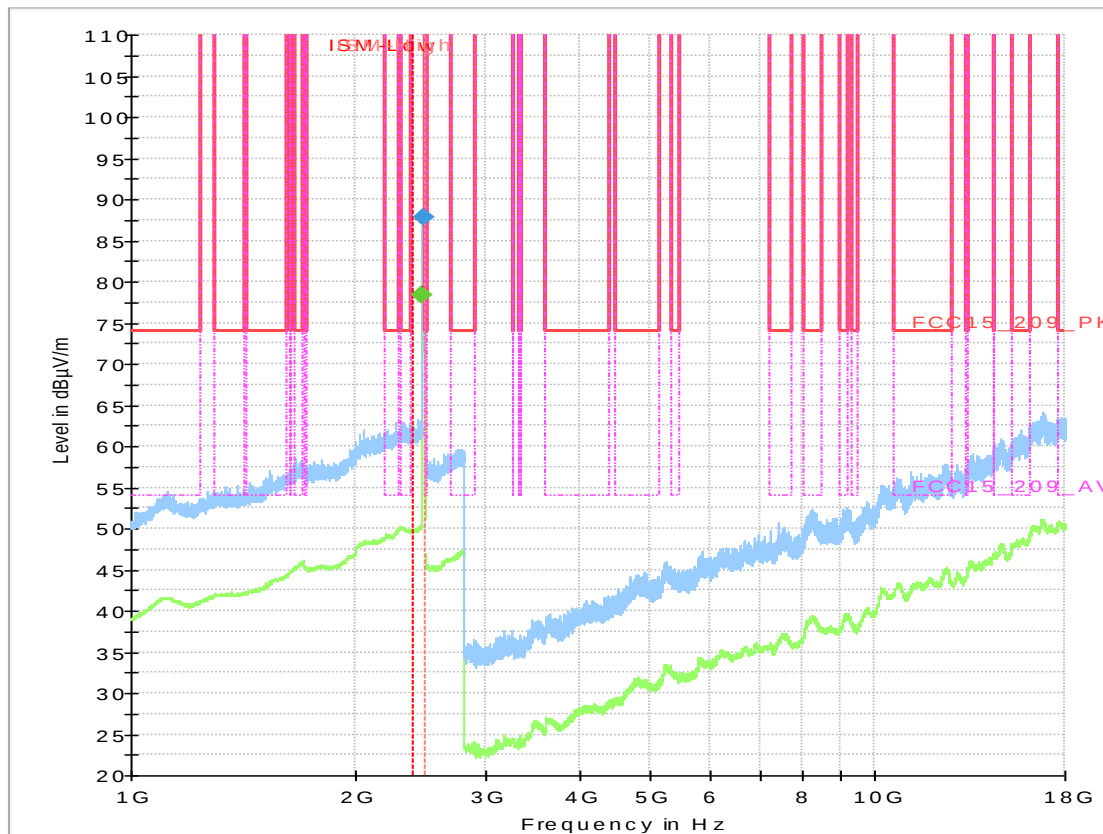
Diagram No.: 4.06_TX_CH13_b-Mode_11MBit

Common Information

Test Description:	Radiated Band-Edge Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator / RSS-247, Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. High=13

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2465.520000	---	78.39	150.00	71.61	100.0	1000.000	155.0	V	33.0	90.0
2465.840000	87.76	---	150.00	62.24	100.0	1000.000	155.0	V	32.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2465.520000	35.6
2465.840000	35.6

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2465.520000	---	78.39	150.00	71.61	100.0	1000.000	155.0	V	33.0	90.0
2465.840000	87.76	---	150.00	62.24	100.0	1000.000	155.0	V	32.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2465.520000	35.6
2465.840000	35.6

1.3.2. g-Mode Modulation

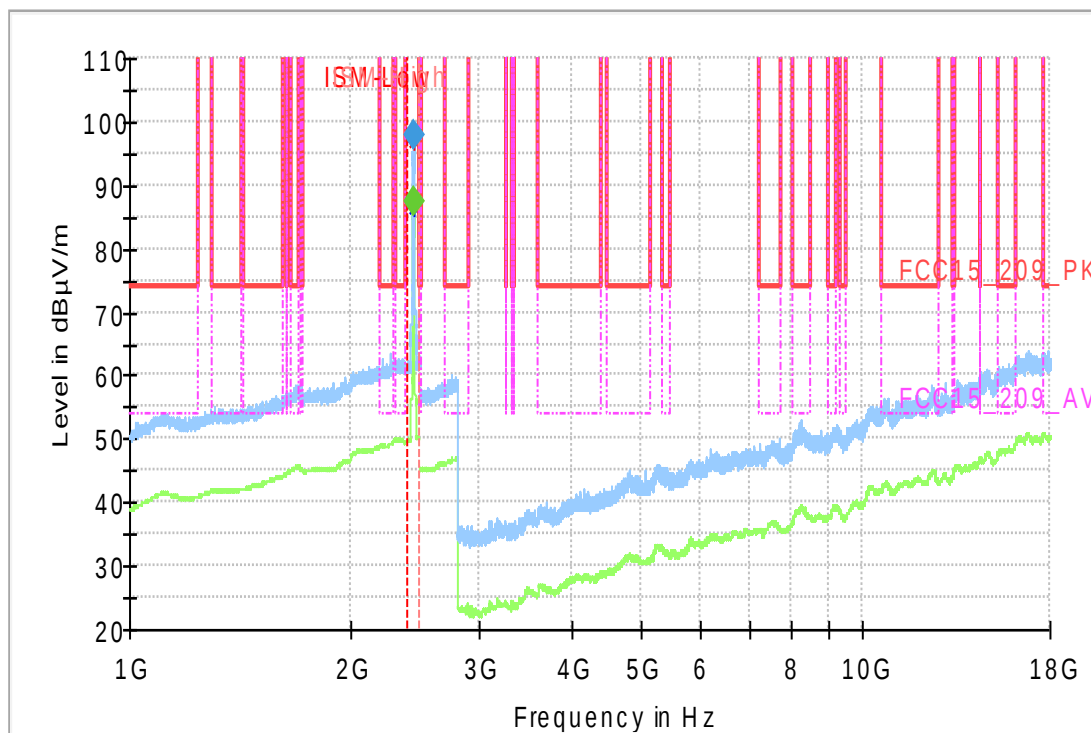
Diagram No.: 4.02_TX_CH6_g-Mode_36Mbit

Common Information

Test Description:	Radiated Field-strength emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator / RSS-247: Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator name:	Kmo
Comment:	Channel no. middle=6, g-Mode, 36MBit, 0dBm

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2443.640000	---	87.34	150.00	62.66	100.0	1000.000	155.0	V	13.0	90.0
2444.560000	97.88	---	150.00	52.12	100.0	1000.000	155.0	V	10.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2443.640000	35.6
2444.560000	35.6

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2443.640000	---	87.34	150.00	62.66	100.0	1000.000	155.0	V	13.0	90.0
2444.560000	97.88	---	150.00	52.12	100.0	1000.000	155.0	V	10.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB)
2443.640000	35.6
2444.560000	35.6

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

2.1. Channel 1 (left band edge)

Diagram No.: 9.04_BAND_EDGE LOW_TX_CH1_b-Mode_11Mbit

Common Information

Test Description:	Radiated Band-Edge Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator / RSS-247: Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Kmo
Comment:	Channel no. low=1, b-Mode, 11MBit, 0dBm

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	

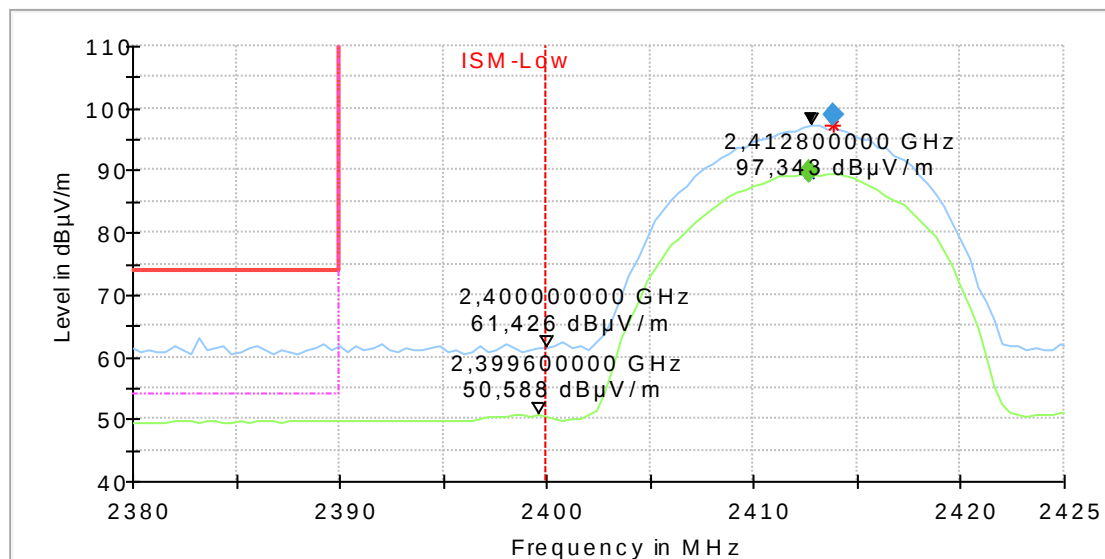


Diagram No.: 9.05_BE_CH1_gMode_36MBit

Common Information

Test Description:	Radiated Band-Edge Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209&15.247 Intentional Radiator / RSS-247, Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. low=1, g-Mode, 36MBit

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	

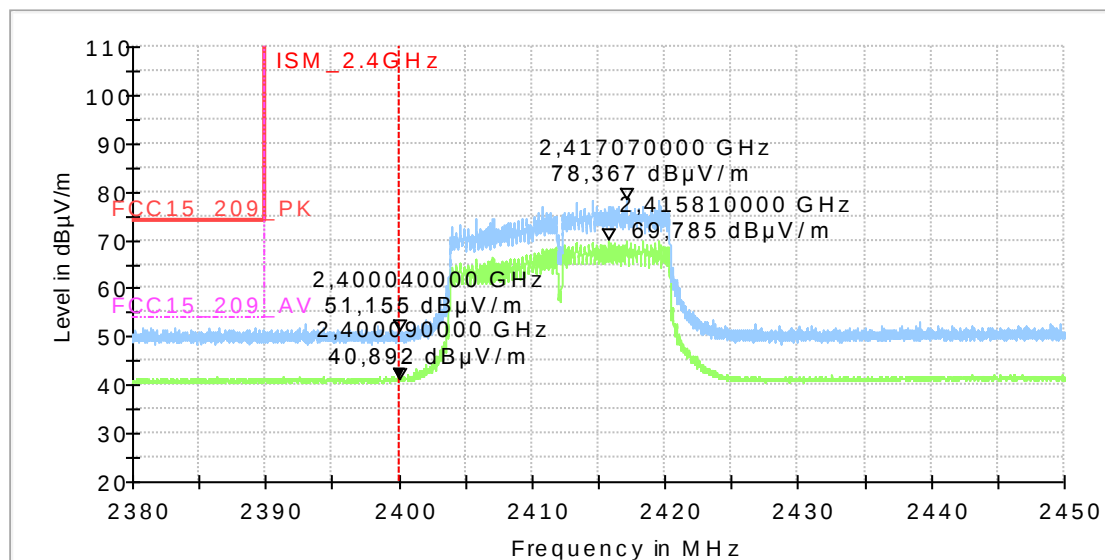


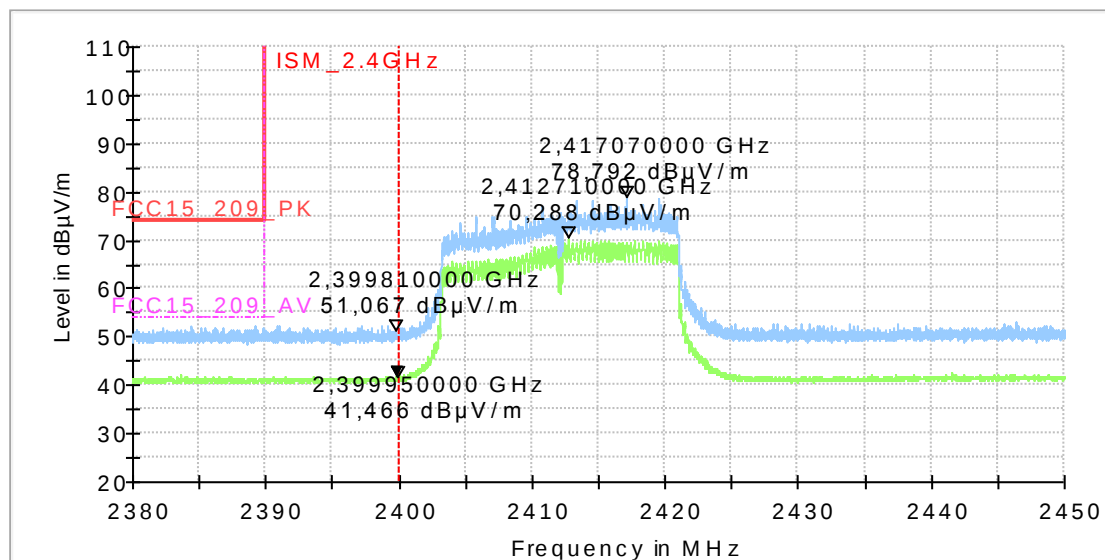
Diagram No.: 9.06_BE_CH1_nMode_MCS0

Common Information

Test Description:	Radiated Band-Edge Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209&15.247 Intentional Radiator / RSS-247, Issue 1
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. low=1, n-Mode, MCS0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	



2.2. Channel 13 (right band edge)

Diagram No.: 9.01_BE_CH13_b-mode_11Mbit

Common Information

Test Description:	Radiated Band-Edge Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	HLA
Comment:	Channel no. High=13, b-Mode, 11MBit, 0dBm setting

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	

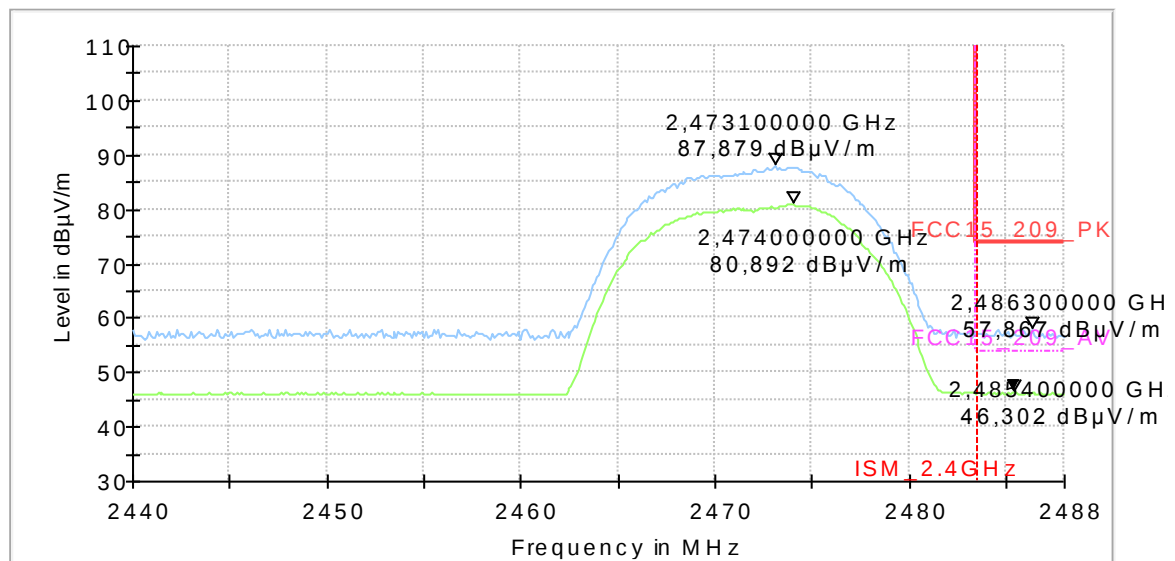


Diagram No.: 9.02_BE_CH13_g-mode_36Mbit

Common Information

Test Description:	Radiated Band-Edge Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	HLa
Comment:	Channel no. High=13, g-Mode, 36MBit, 0dBm setting

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	

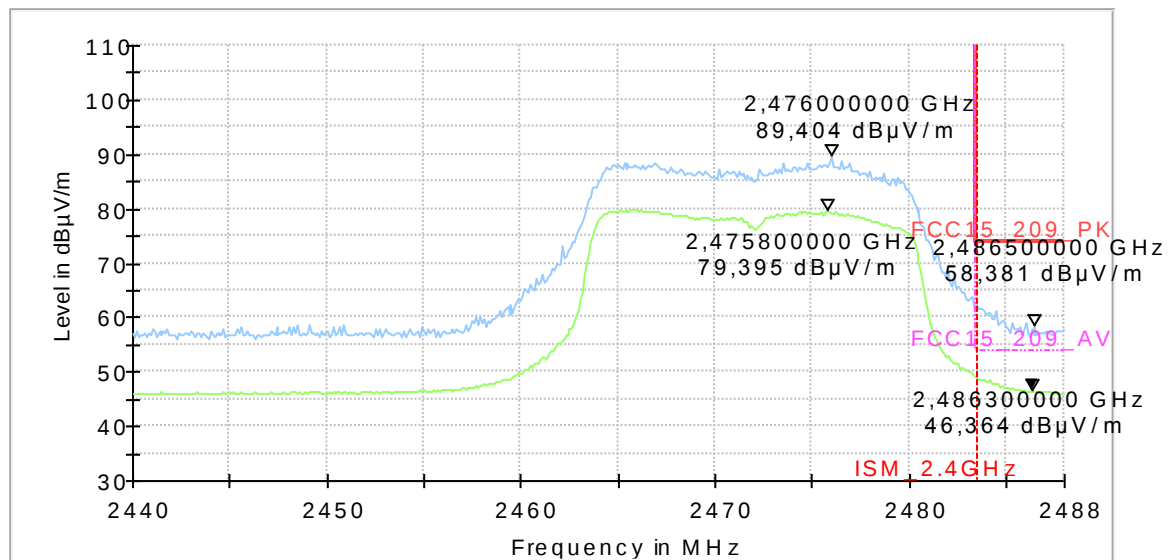


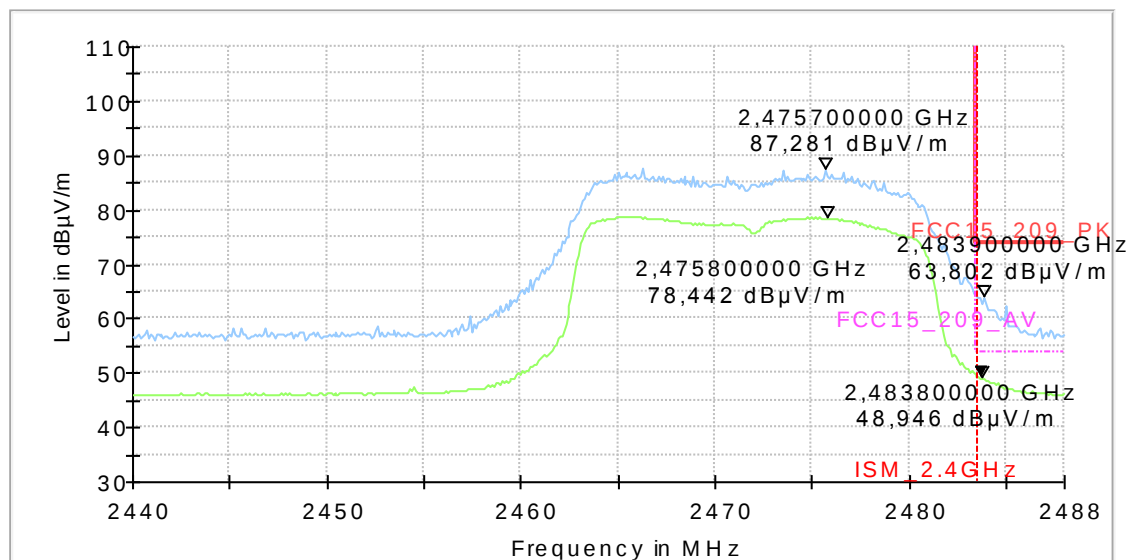
Diagram No.: 9.03_BE_CH13_HT20-mode_MCS0

Common Information

Test Description:	Radiated Band-Edge Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	HLA
Comment:	Channel no. High=13, HT20-Mode, MCS0

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 T1-US-4GW
HW Version:	212.007.007
SW Version:	001.018.103
Serial Number:	0000595569
Connected Interfaces:	
Power Supply:	14 VDC
Comments:	



3. Conducted RF-measurements on antenna port

3.1. Conducted RF-power

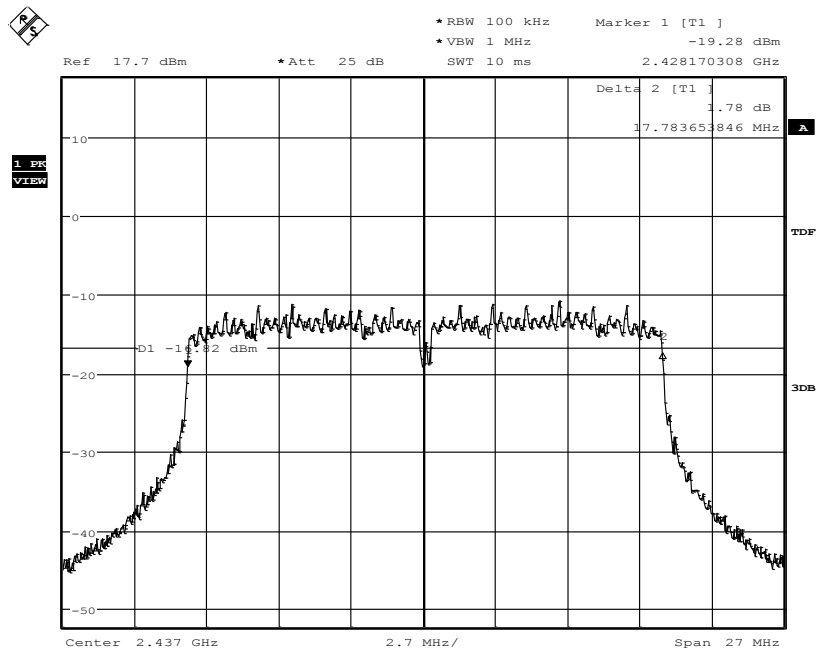
b-mode	Channel no.		
Data rate	Channel 1	Channel 6	Channel 13
1MBit	1.16	0.98	0.23
2Mbit	1.17	1.01	0.18
5.5Mbit	1.17	1.01	0.10
11MBit	1.19	0.95	0.11

g-Mode	Channel no.		
Data rate	Channel 1	Channel 6	Channel 13
6Mbit	0.87	1.27	0.45
9Mbit	0.89	1.26	0.50
12Mbit	0.93	1.29	1.52
18Mbit	0.98	1.31	0.54
24Mbit	1.17	1.19	0.66
36Mbit	1.22	1.21	0.72
48Mbit	1.13	1.12	0.69
54MBit	1.26	1.23	0.75

n-Mode HT20 (1 spatial stream: 1SS)	Channel no.		
Data rate	Channel 1	Channel 6	Channel 13
MCS0 -6.5Mbps	0.84	1.23	0.43
MCS1 - 13Mbps	0.86	1.27	0.47
MCS2 - 19.5Mbps	0.87	1.29	0.48
MCS3 - 26Mbps	1.08	1.13	0.61
MCS4 -39Mbps	1.11	1.16	0.62
MCS5 - 52MBps	1.11	1.14	0.62
MCS6 - 58.5MBps	1.18	1.24	0.68
MCS7 - 65MBps	1.19	1.20	0.66

3.2. 6-dB Bandwidth

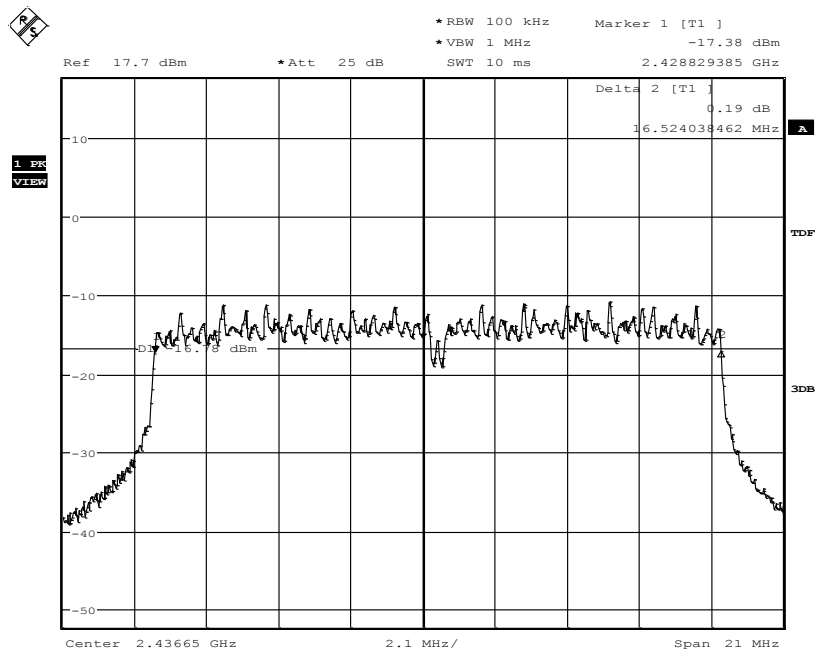
3.2.1. 6-dB Bandwidth (n-Mode)



Date: 25.AUG.2015 12:16:04

Channel 6 - Worst-Case 6dB-Bandwidth

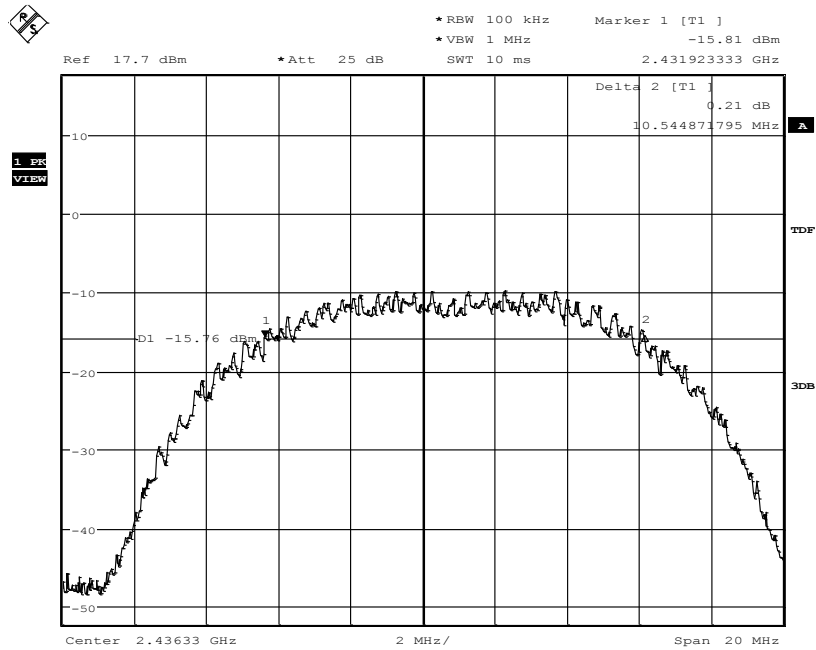
3.2.2. 6-dB Bandwidth (g-Mode)



Date: 25.AUG.2015 13:25:20

Channel 6 - Worst-Case 6dB-Bandwidth

3.2.3. 6-dB Bandwidth (b-Mode)

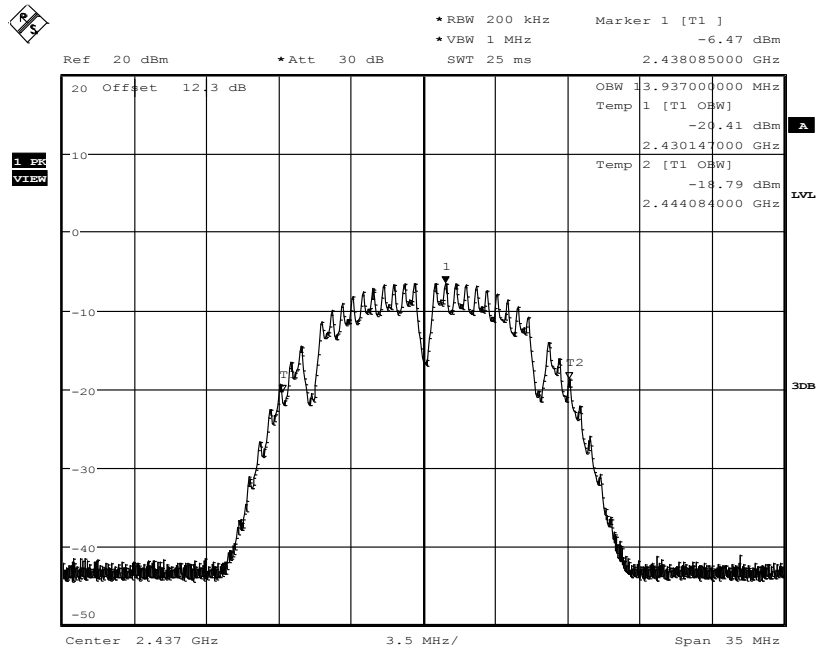


Date: 25.AUG.2015 13:37:43

Channel 6 - Worst-Case 6dB-Bandwidth

3.3. 99% Occupied Bandwidth

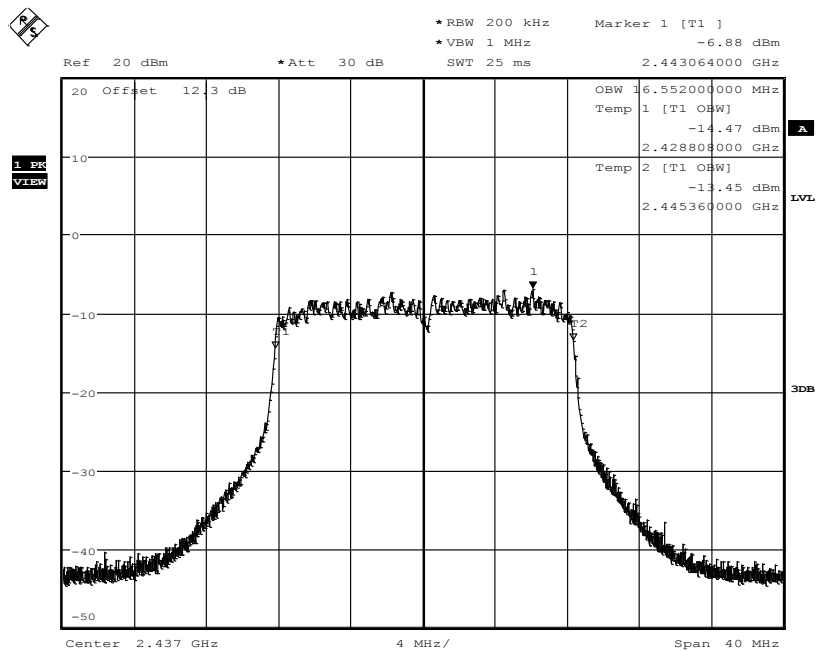
3.3.1. OBW - Bandwidth (b-Mode)



Date: 28.AUG.2015 08:44:33

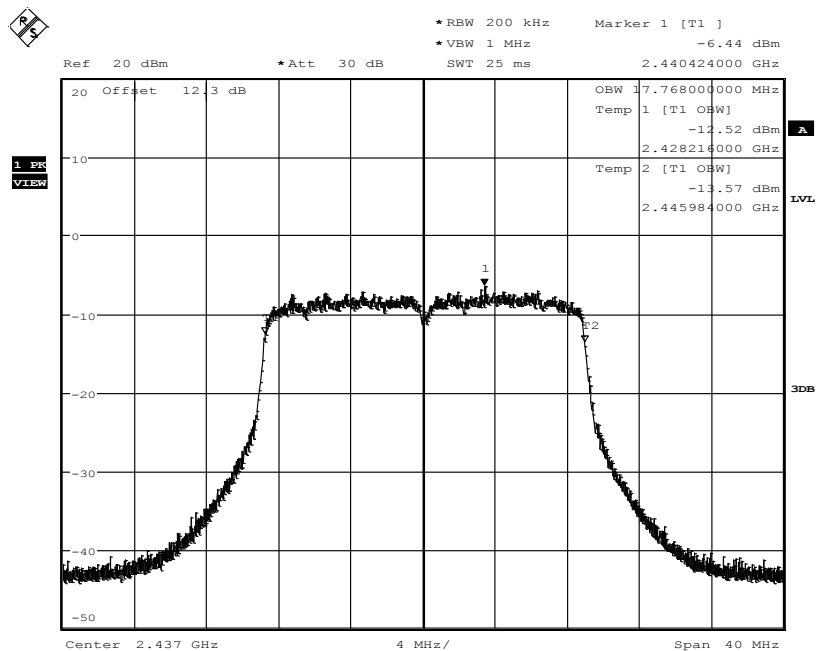
Channel 6(5.5 MBit)

3.3.2. OBW - Bandwidth (g-Mode)



Date: 28.AUG.2015 08:51:34

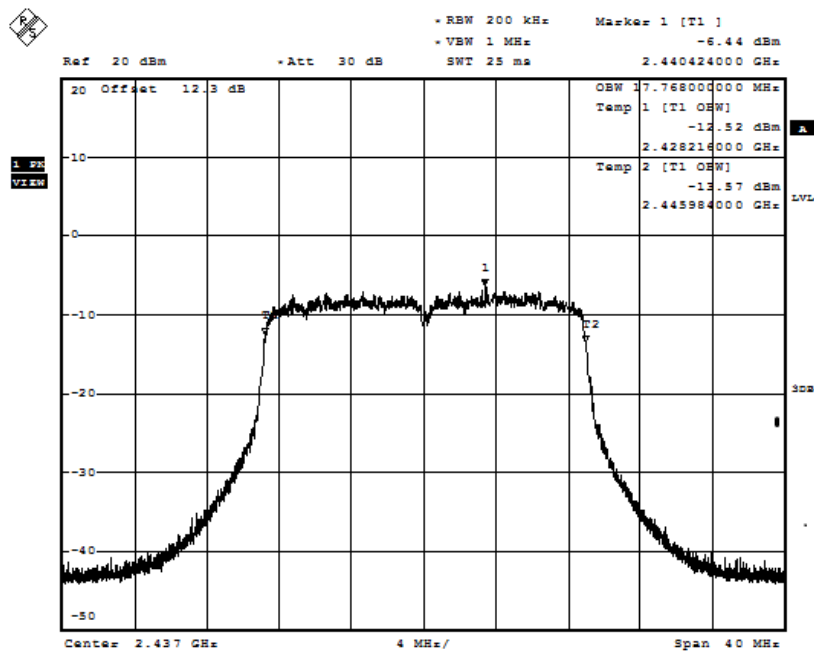
Channel 6 (54 MBit)



Date: 28.AUG.2015 08:58:10

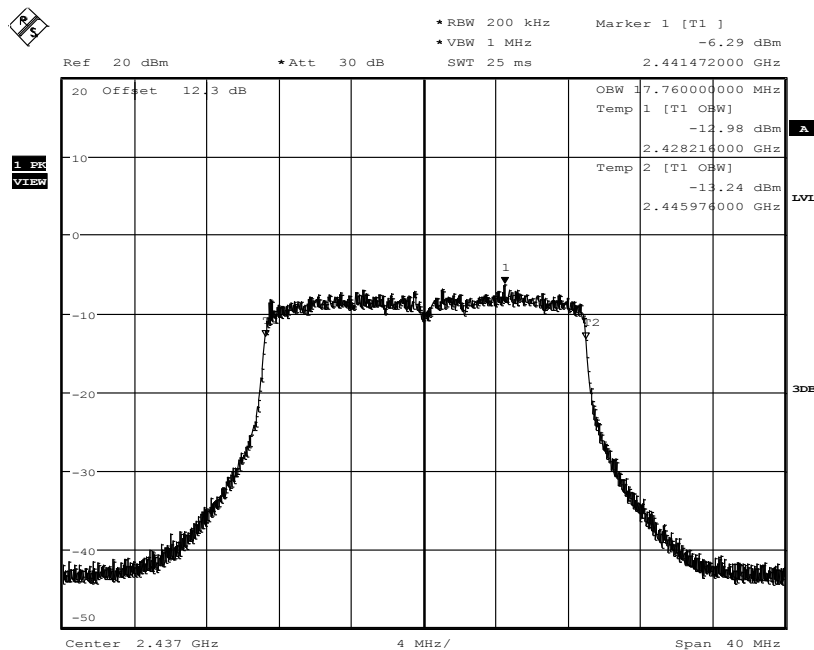
Channel 13

3.3.3. OBW - Bandwidth (n-Mode)



Date: 28.AUG.2015 08:58:10

Channel 6 (MCS3)



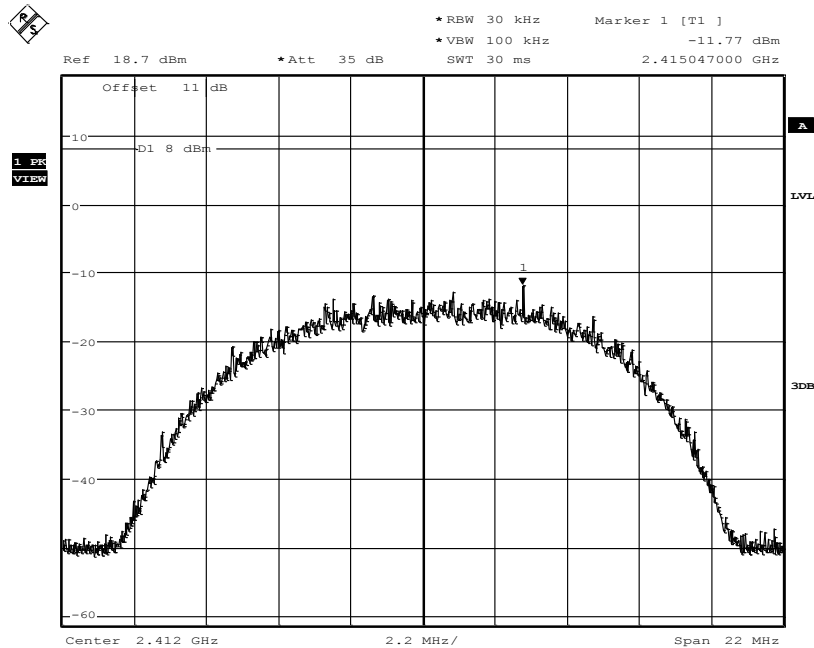
Date: 28.AUG.2015 09:02:48

Channel 6 (MCS7)

3.4. Power Spectral Density

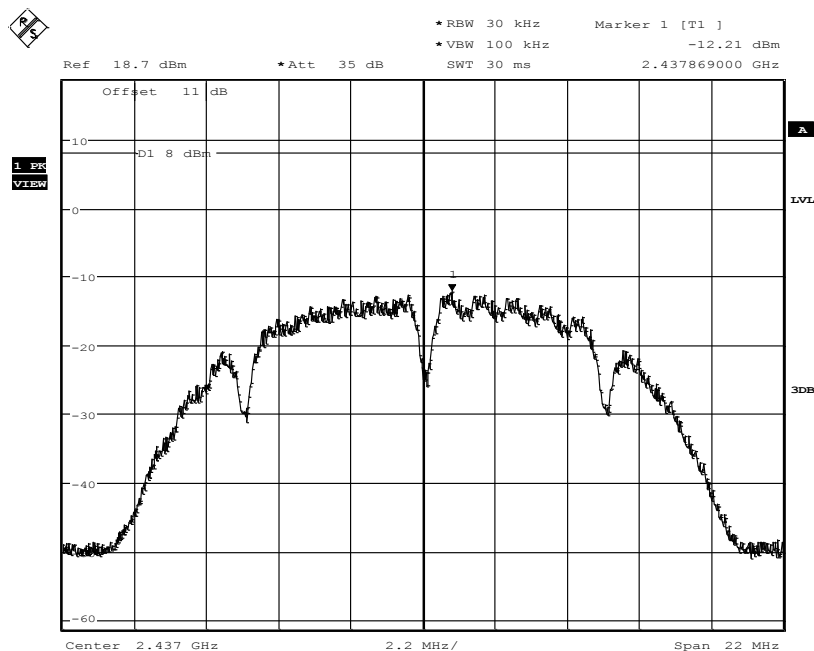
Method §10.2

3.4.1. PSD (b-Mode)



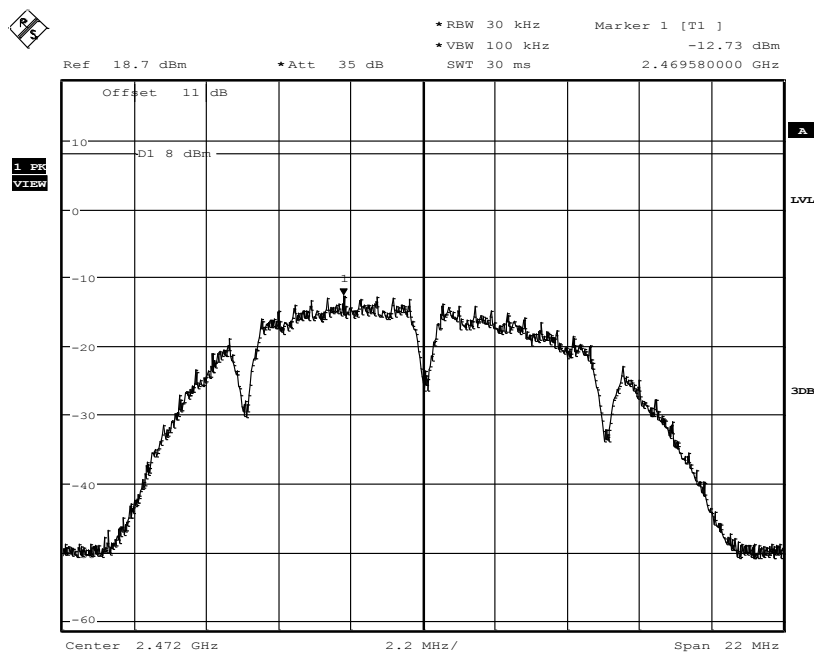
Date: 28.AUG.2015 09:13:44

Channel 1 (11MBit)



Date: 28.AUG.2015 09:23:28

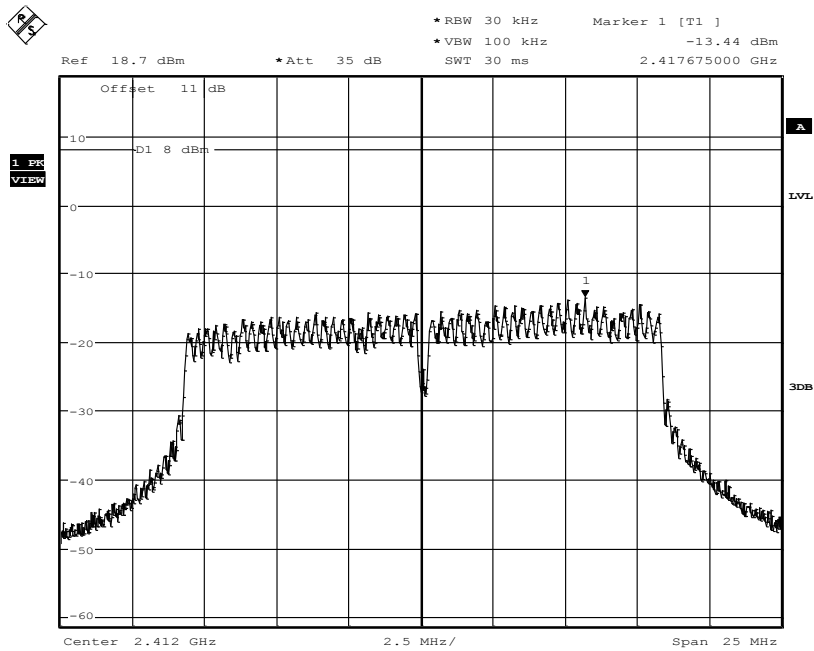
Channel 6 (2MBit)



Date: 28.AUG.2015 09:31:53

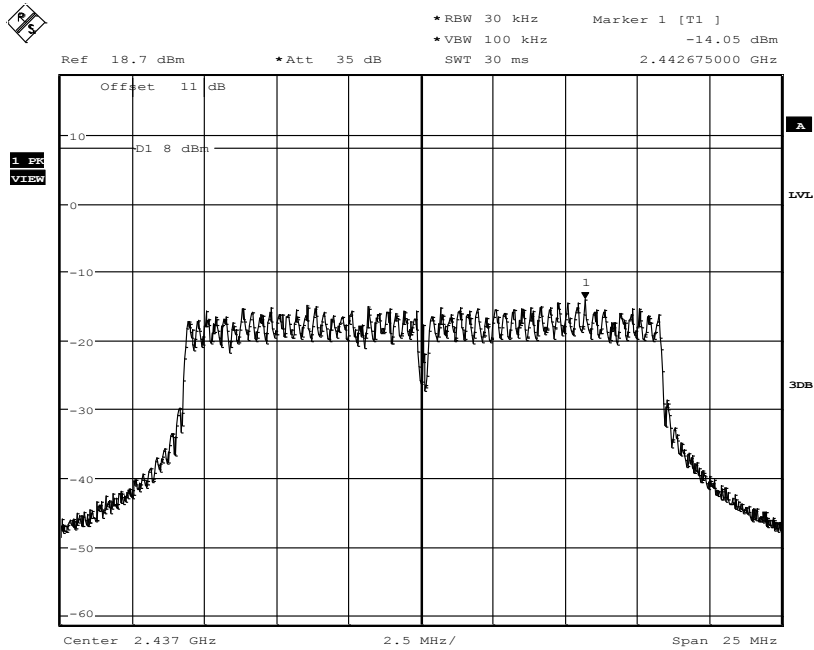
Channel 13 (1MBit)

3.4.2. PSD (g-Mode)



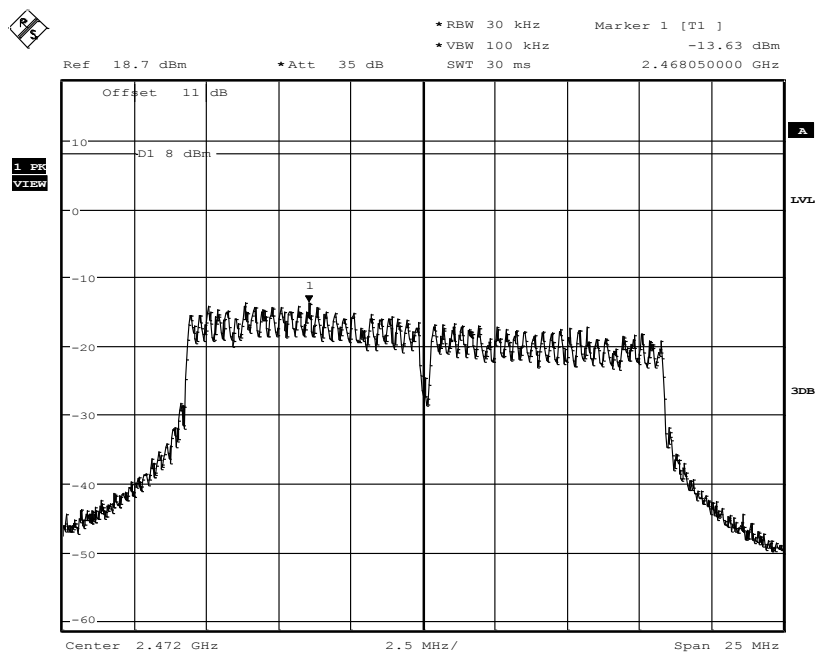
Date: 28.AUG.2015 09:38:42

Channel 1(54 MBit)



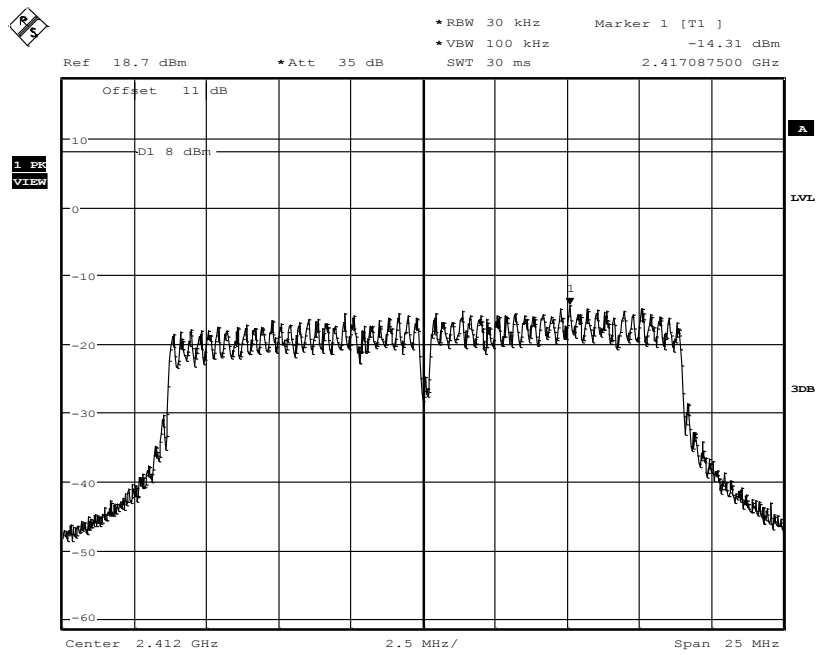
Date: 28.AUG.2015 10:00:02

Channel 6(54 MBit)

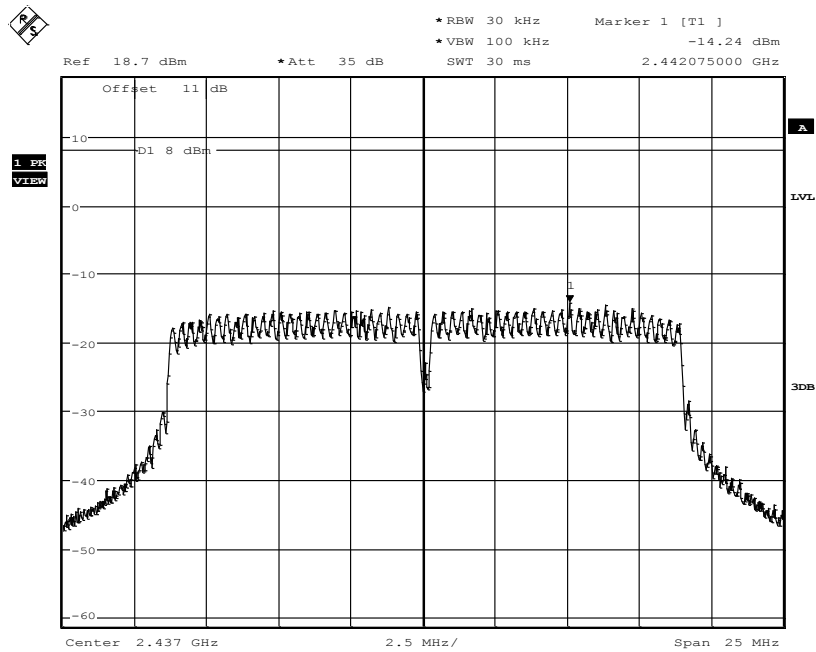


Date: 28.AUG.2015 09:55:50

Channel 13(54 MBit)

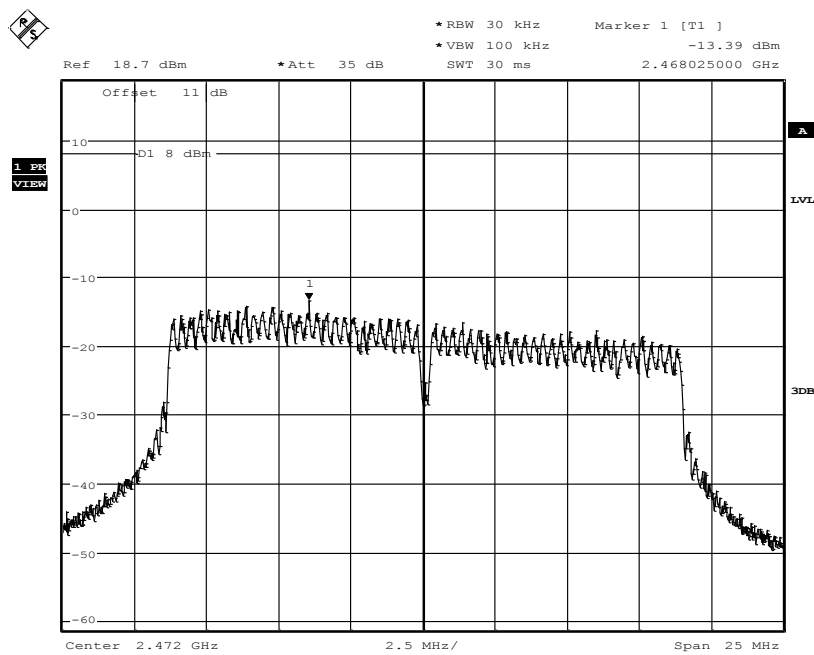
3.4.3. PSD (n-Mode)

Date: 28.AUG.2015 10:20:10

Channel 1(MCS6)

Date: 28.AUG.2015 10:08:27

Channel 6(MCS1)



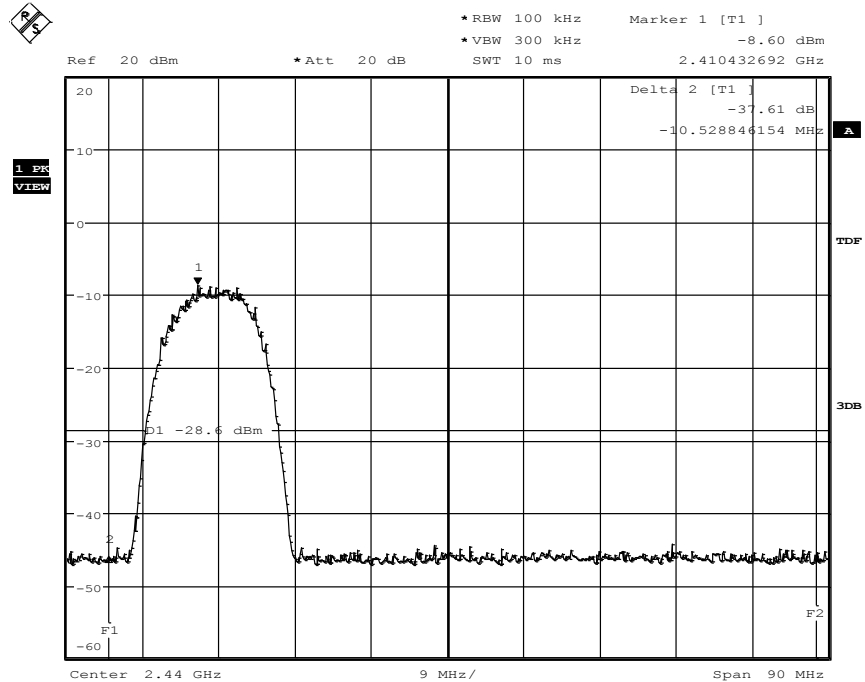
Date: 28.AUG.2015 10:12:29

Channel 13(MCS6)

3.5. 20dBc Emissions

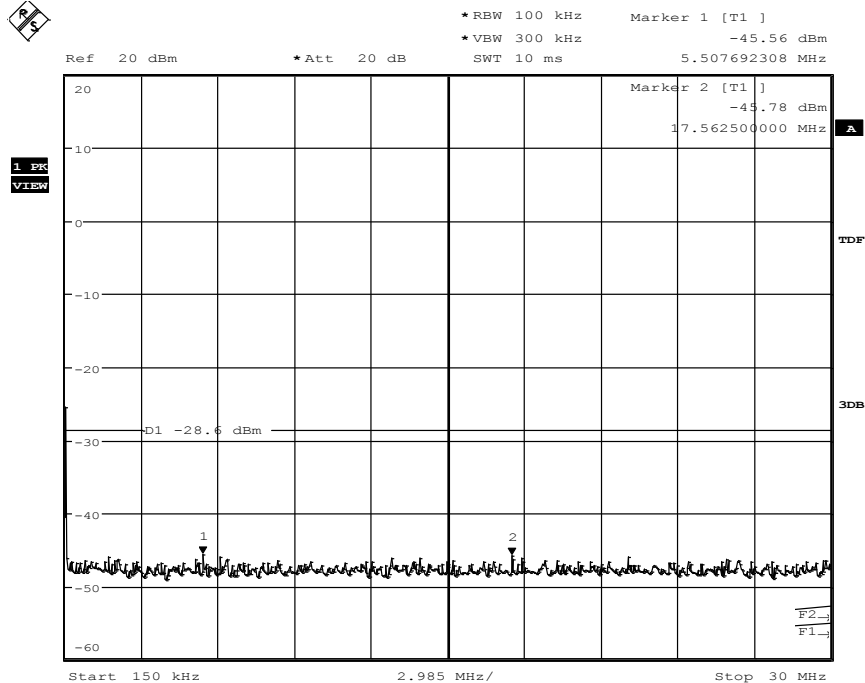
3.5.1. b-Mode Channel 1 (data rate 11MBit)

3.5.1.1. Channel 1 Reference



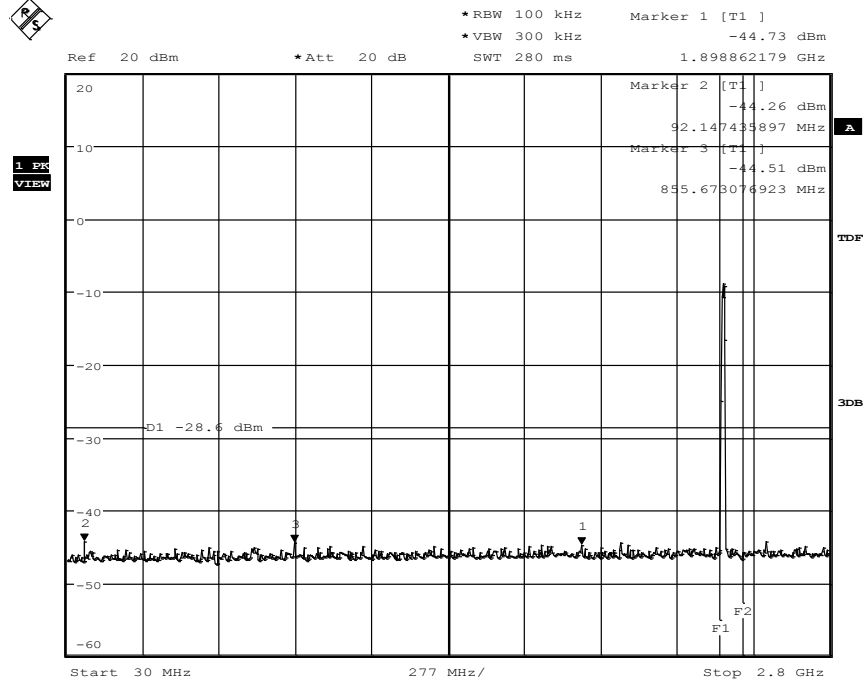
Date: 28.AUG.2015 11:57:27

3.5.1.2. Sweep 1: 150kHz to 30MHz



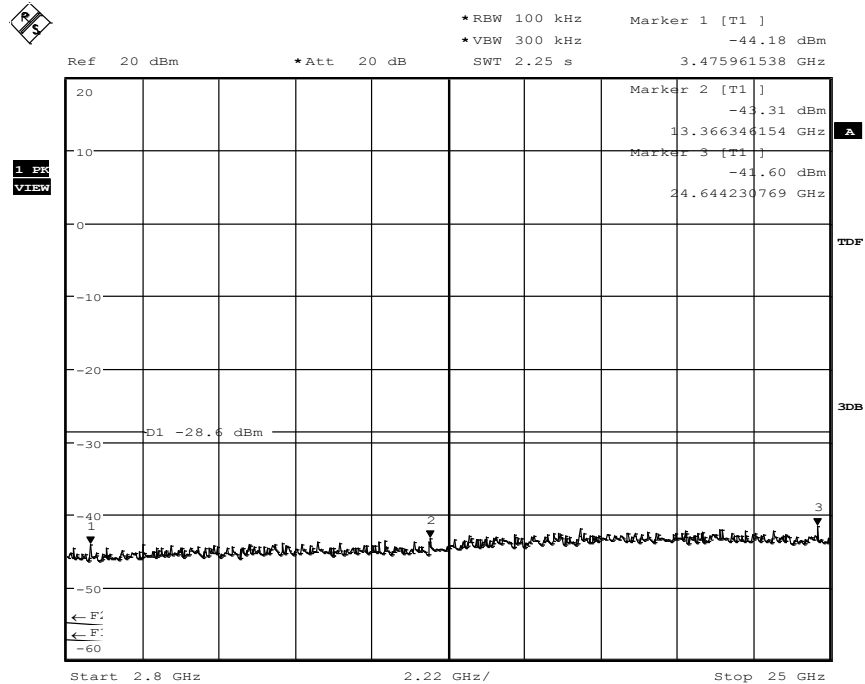
Date: 28.AUG.2015 12:00:26

3.5.1.3. Sweep 2: 30MHz to 2.8GHz



Date: 28.AUG.2015 12:04:55

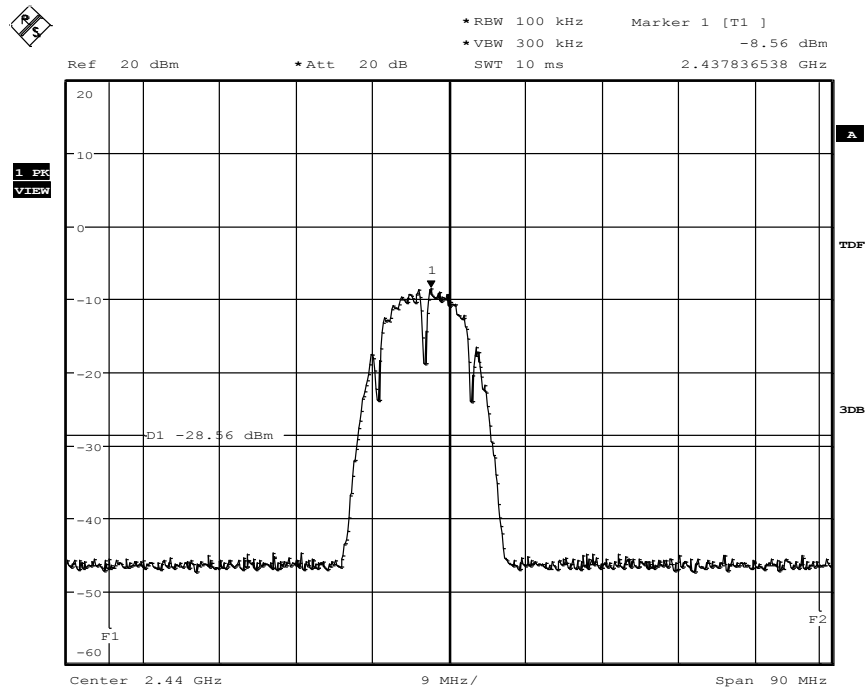
3.5.1.4. Sweep 3: 2.8GHz to 25GHz



Date: 28.AUG.2015 12:08:25

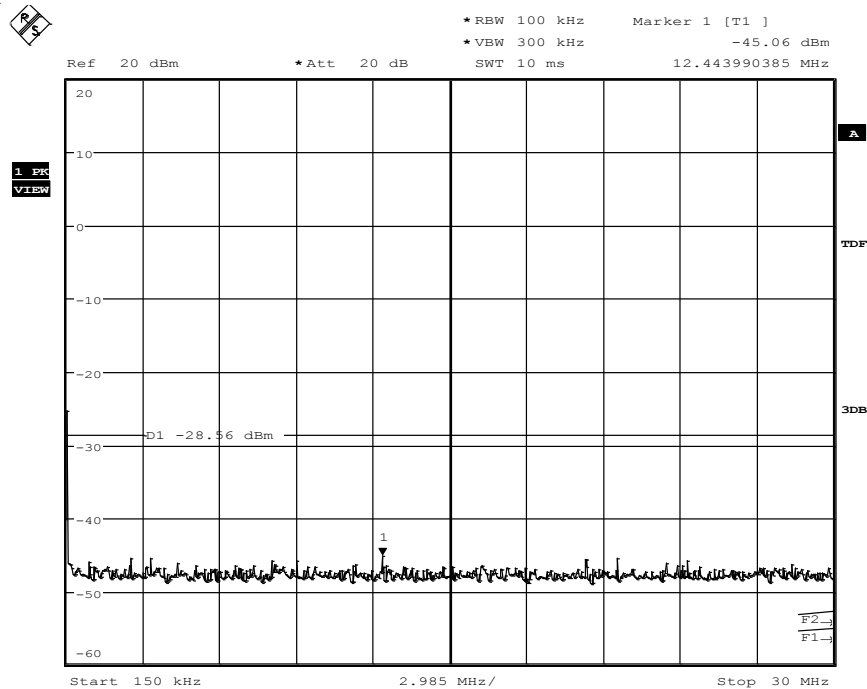
3.5.2. b-Channel 6

3.5.2.1. Channel 6 Reference

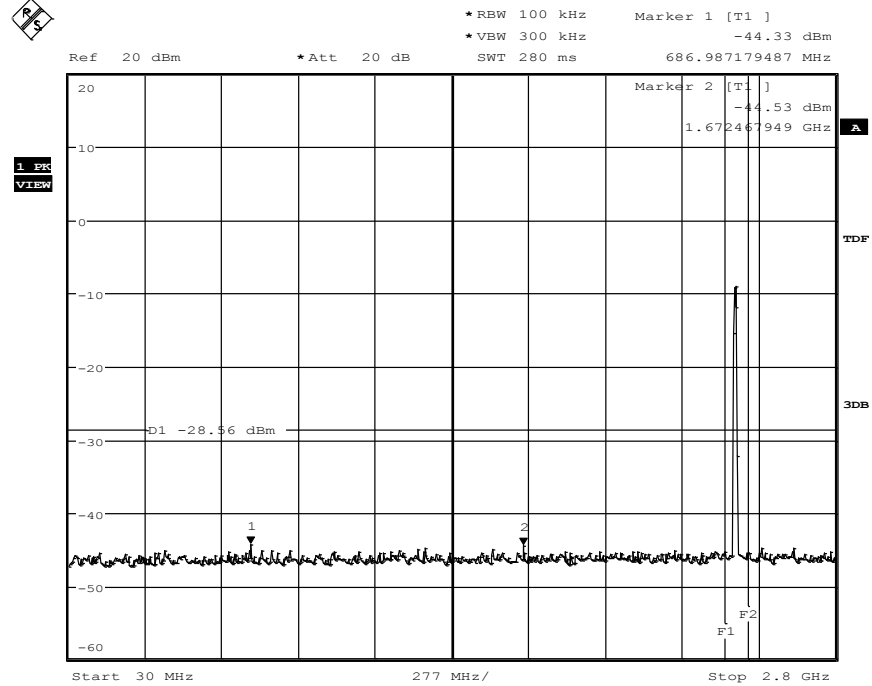


Date: 28.AUG.2015 12:12:01

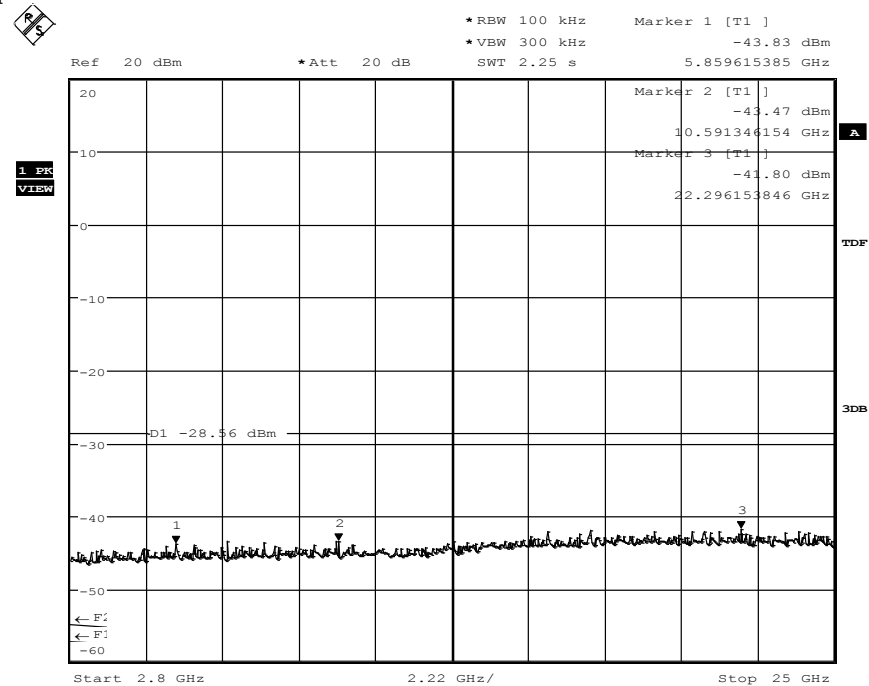
3.5.2.2. Sweep 1: 150kHz to 30MHz



Date: 28.AUG.2015 12:15:17

3.5.2.3. Sweep 2: 30MHz to 2.8GHz

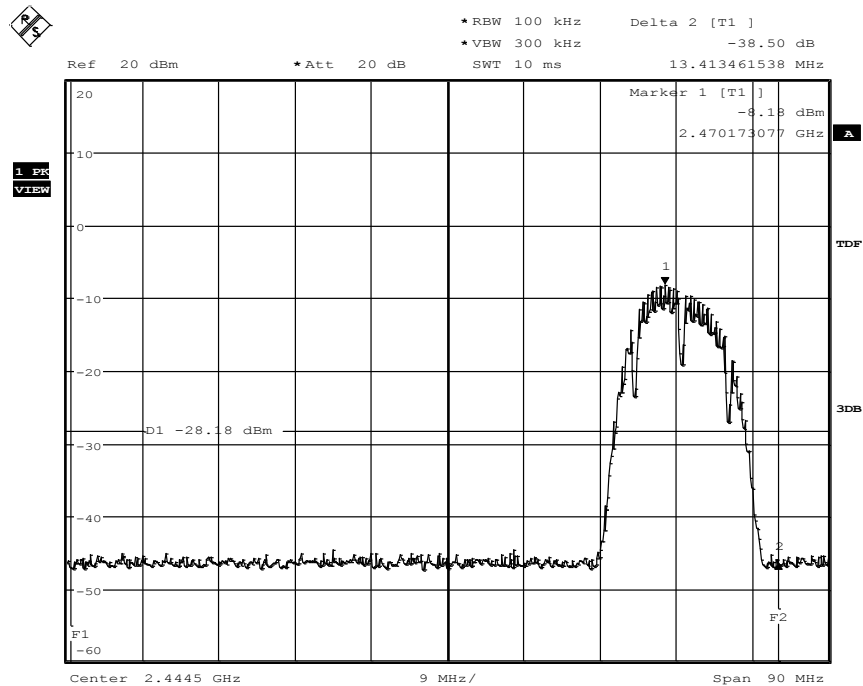
Date: 28.AUG.2015 12:18:31

3.5.2.4. Sweep 3: 2.8GHz to 25GHz

Date: 28.AUG.2015 12:22:06

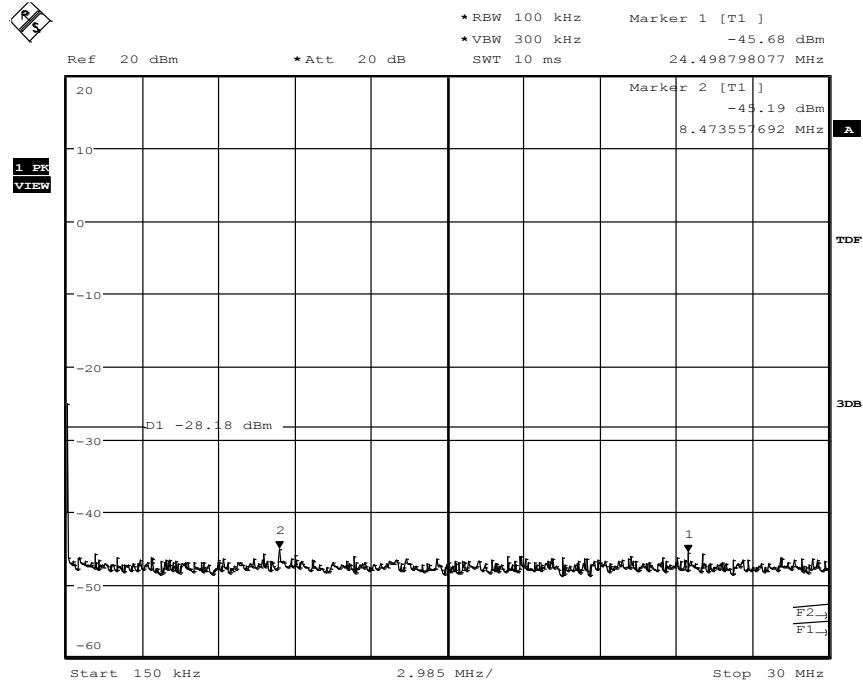
3.5.3. b-Mode Channel 13

3.5.3.1. Channel 13 Reference

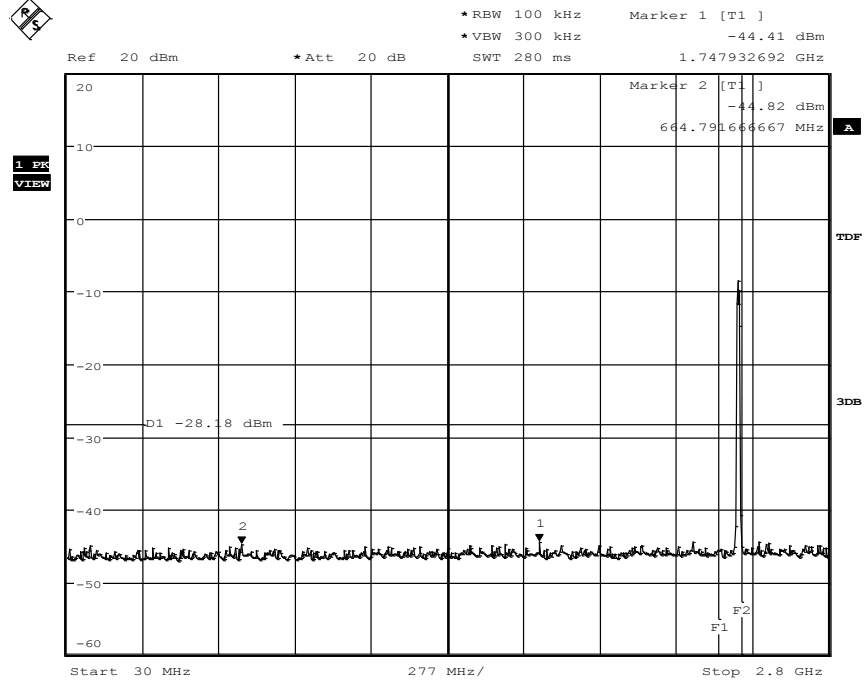


Date: 28.AUG.2015 12:27:23

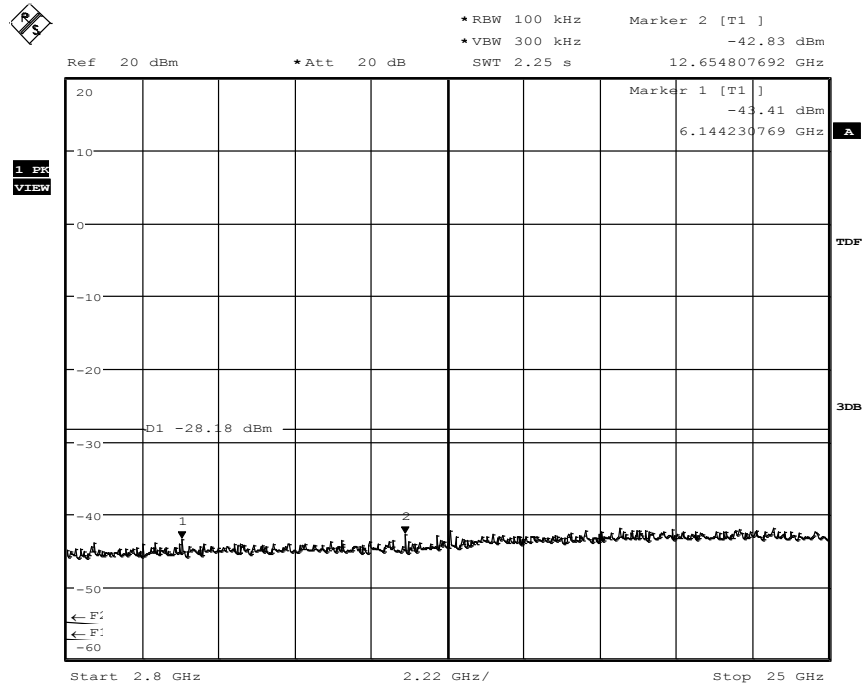
3.5.3.2. Sweep 1: 150kHz to 30MHz



Date: 28.AUG.2015 12:37:49

3.5.3.3. Sweep 2: 30MHz to 2.8GHz

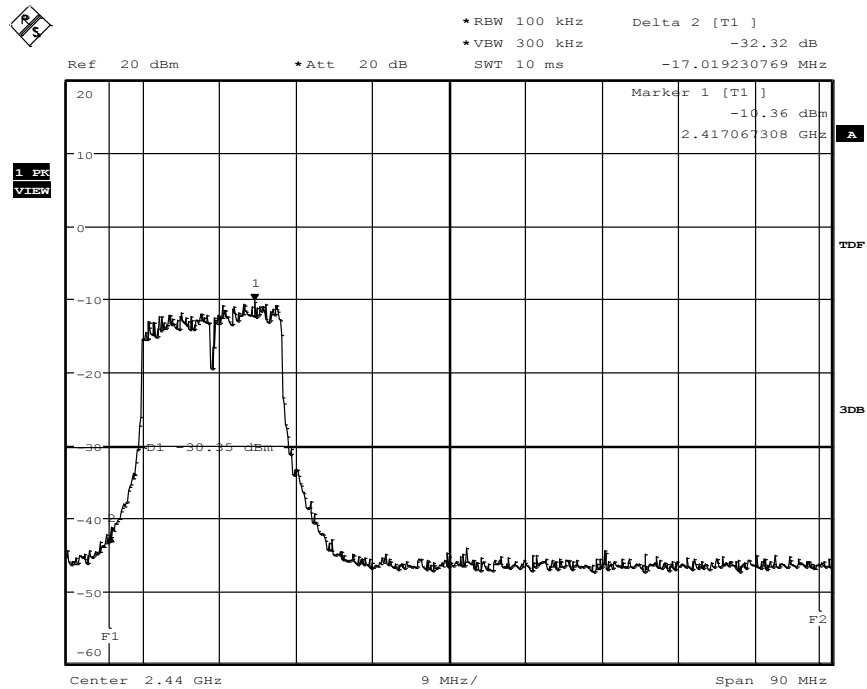
Date: 28.AUG.2015 12:42:20

3.5.3.4. Sweep 3: 2.8GHz to 25GHz

Date: 28.AUG.2015 12:33:25

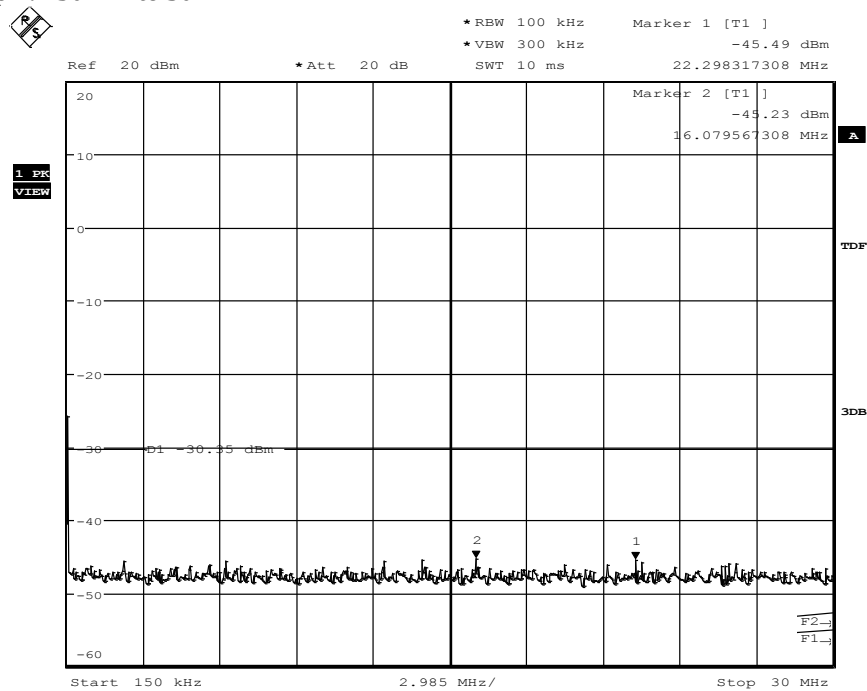
3.5.4. g-Mode Channel 1

3.5.4.1. Channel 1 Reference



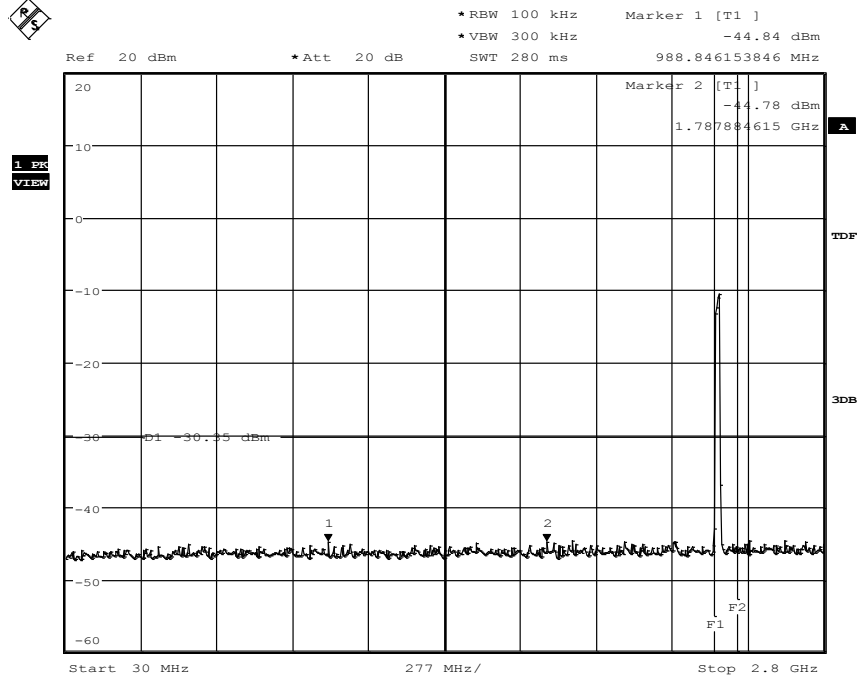
Date: 28.AUG.2015 11:14:41

3.5.4.2. Sweep 1: 150kHz to 30MHz



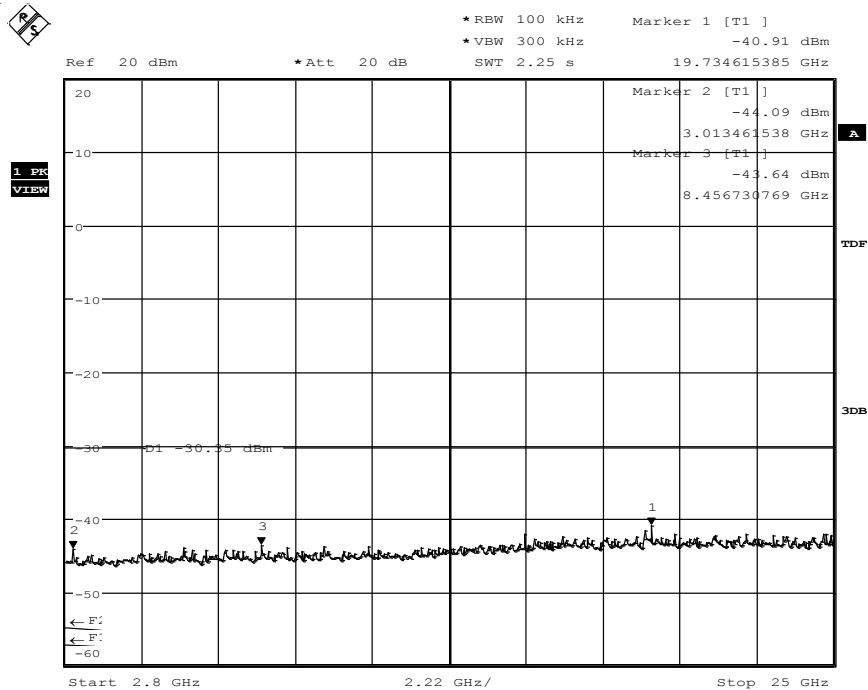
Date: 28.AUG.2015 11:17:20

3.5.4.3. Sweep 2: 30MHz to 2.8GHz



Date: 28.AUG.2015 11:20:57

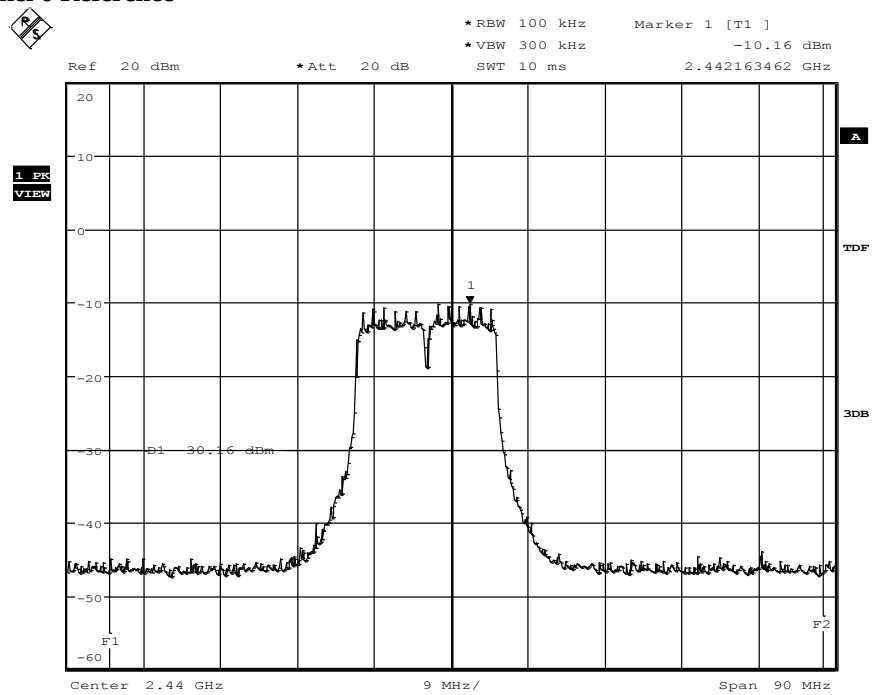
3.5.4.4. Sweep 3: 2.8GHz to 25GHz



Date: 28.AUG.2015 11:24:30

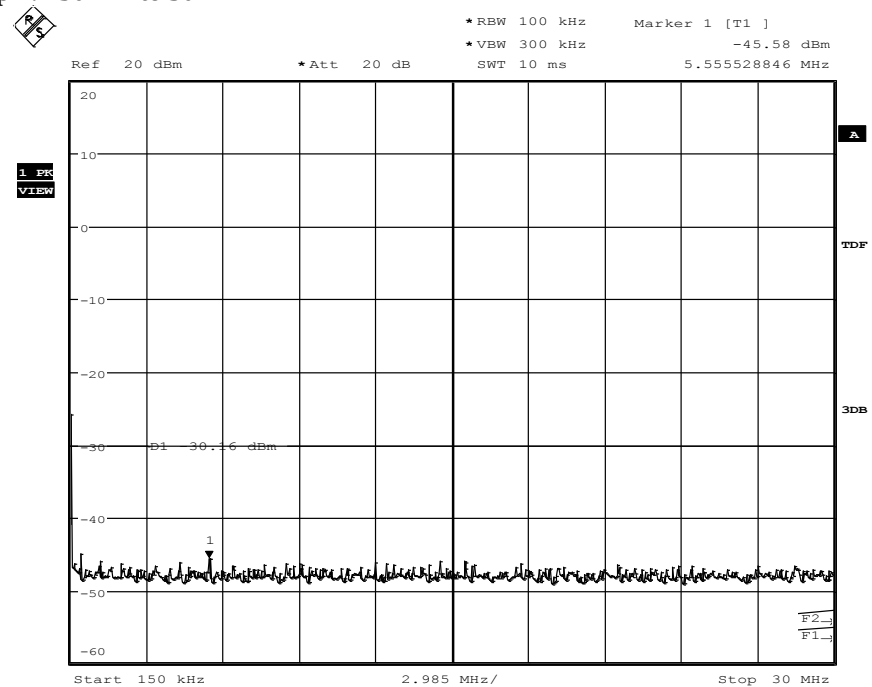
3.5.5. g-Mode Channel 6

3.5.5.1. Channel 6 Reference

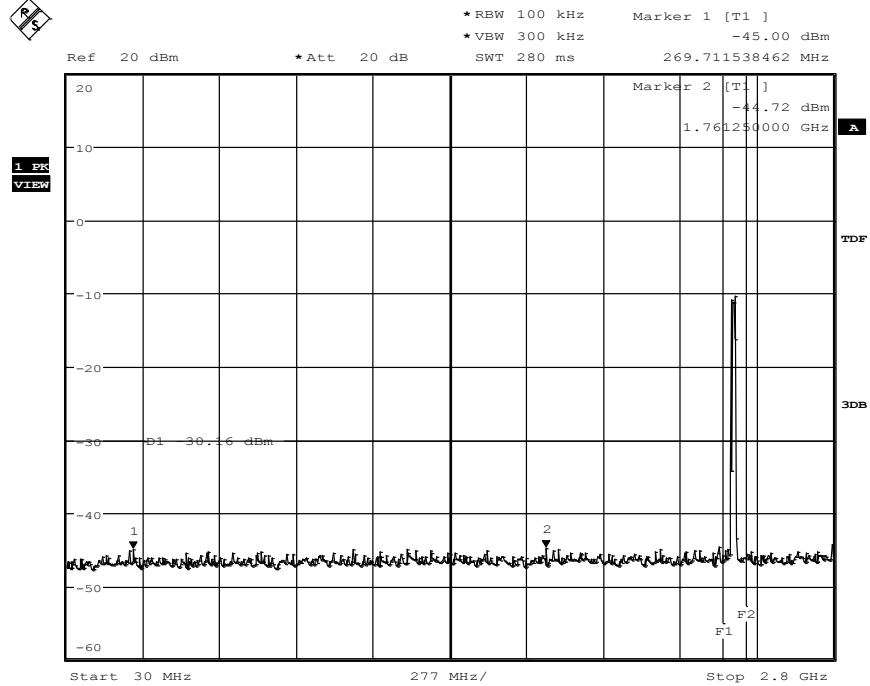


Date: 28.AUG.2015 11:28:26

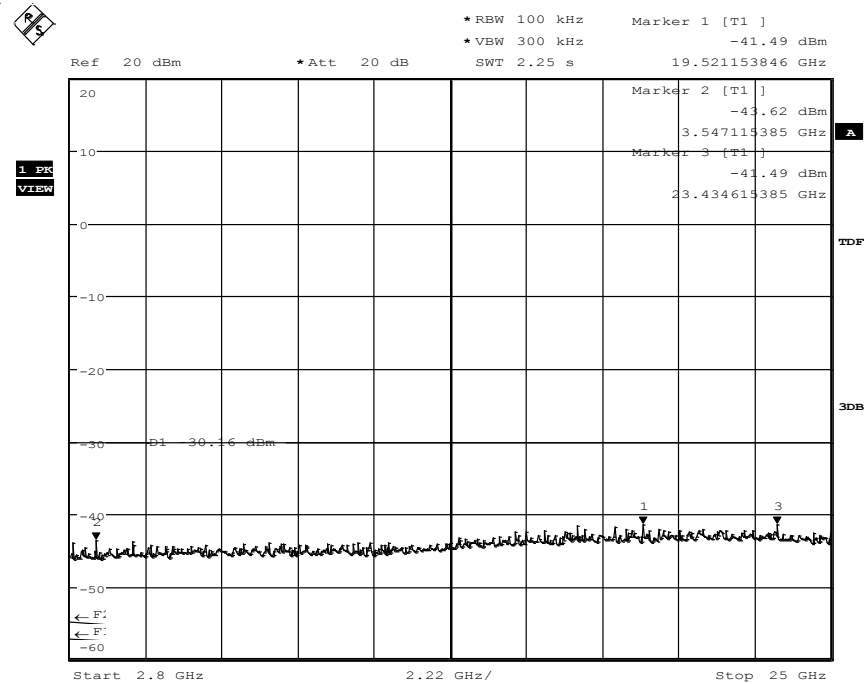
3.5.5.2. Sweep 1: 150kHz to 30MHz



Date: 28.AUG.2015 11:30:30

3.5.5.3. Sweep 2: 30MHz to 2.8GHz

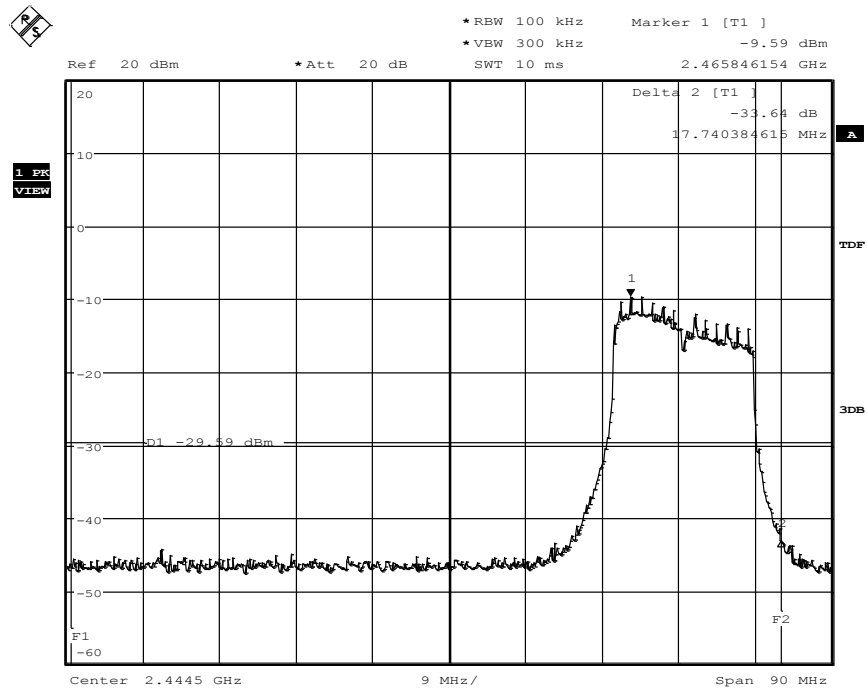
Date: 28.AUG.2015 11:32:43

3.5.5.4. Sweep 3: 2.8GHz to 25GHz

Date: 28.AUG.2015 11:36:58

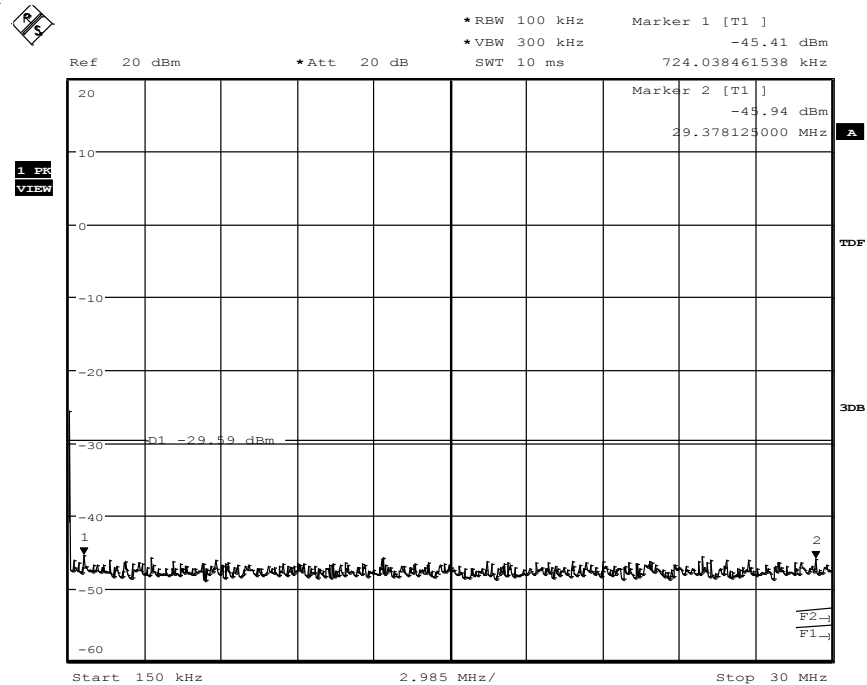
3.5.6. g-Mode Channel 13

3.5.6.1. Channel 13 Reference



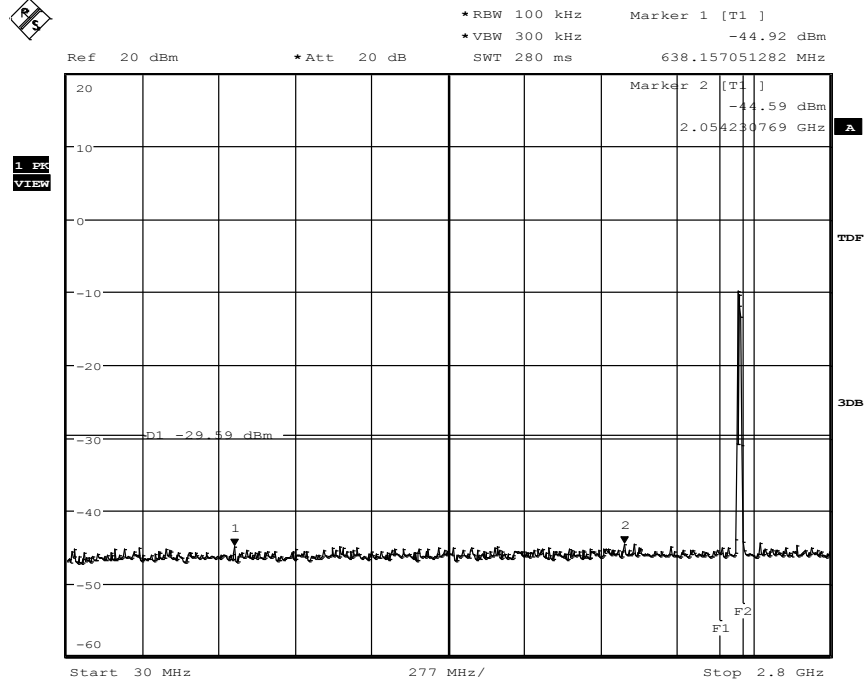
Date: 28.AUG.2015 11:40:47

3.5.6.2. Sweep 1: 150kHz to 30MHz



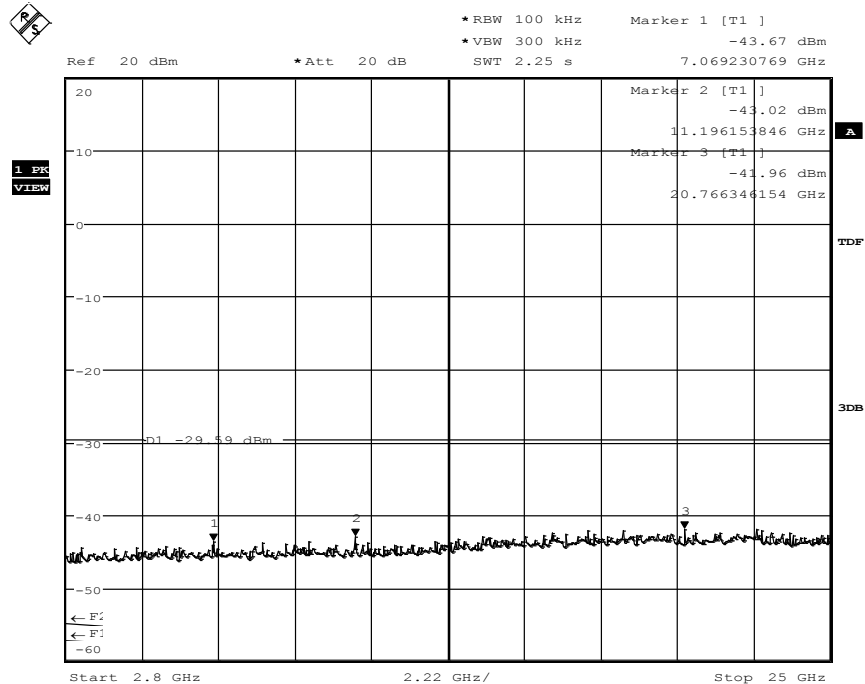
Date: 28.AUG.2015 11:43:49

3.5.6.3. Sweep 2: 30MHz to 2.8GHz



Date: 28.AUG.2015 11:48:15

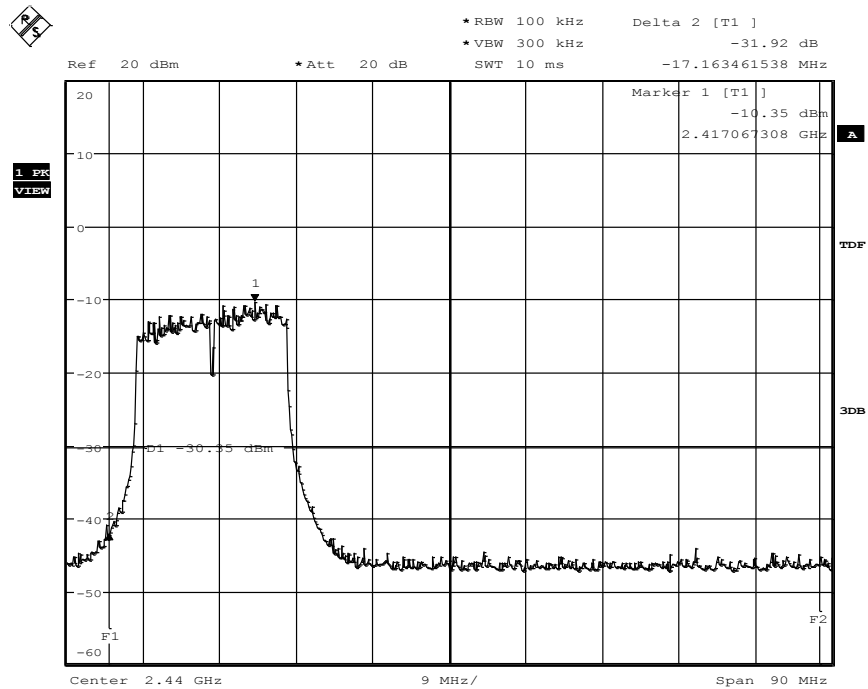
3.5.6.4. Sweep 3: 2.8GHz to 25GHz



Date: 28.AUG.2015 11:51:22

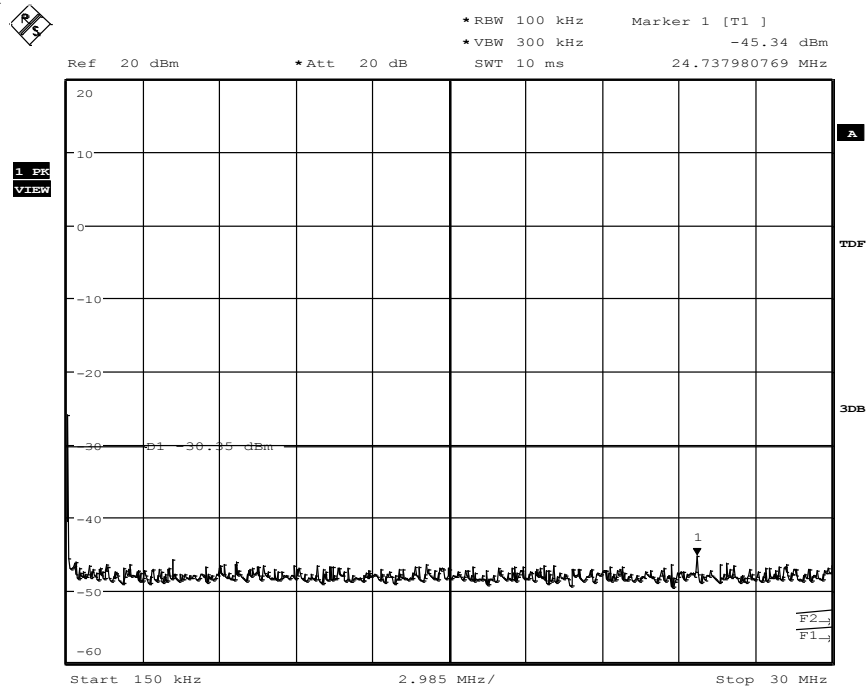
3.5.7. n-Mode Channel 1

3.5.7.1. Channel 1 Reference

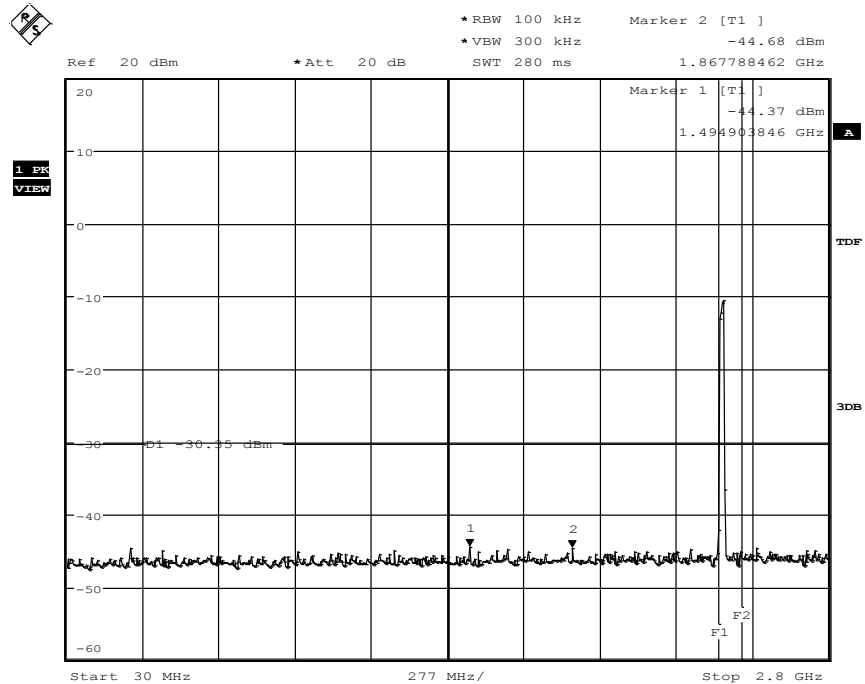


Date: 28.AUG.2015 11:03:54

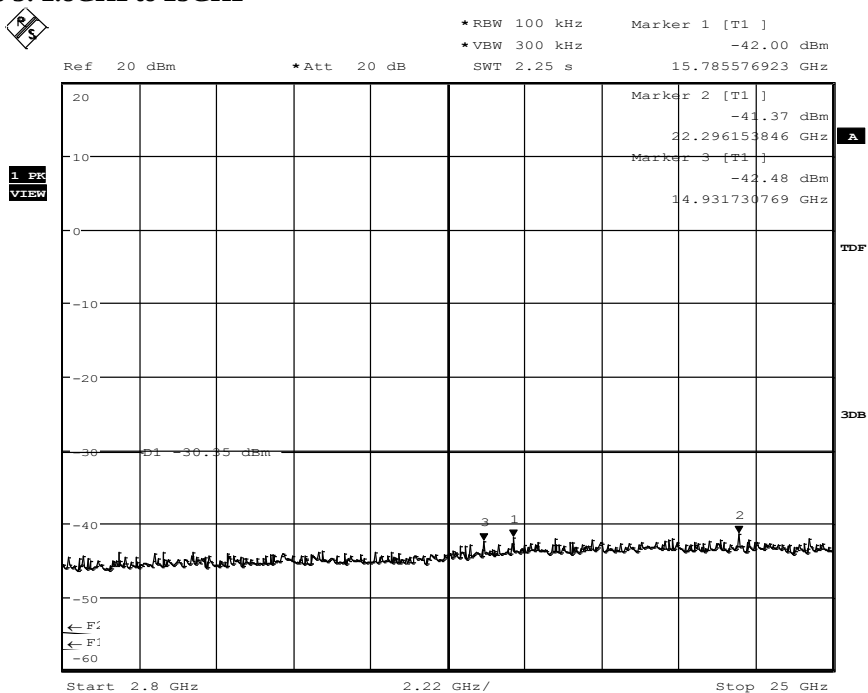
3.5.7.2. Sweep 1: 150kHz to 30MHz



Date: 28.AUG.2015 11:05:40

3.5.7.3. Sweep 2: 30MHz to 2.8GHz

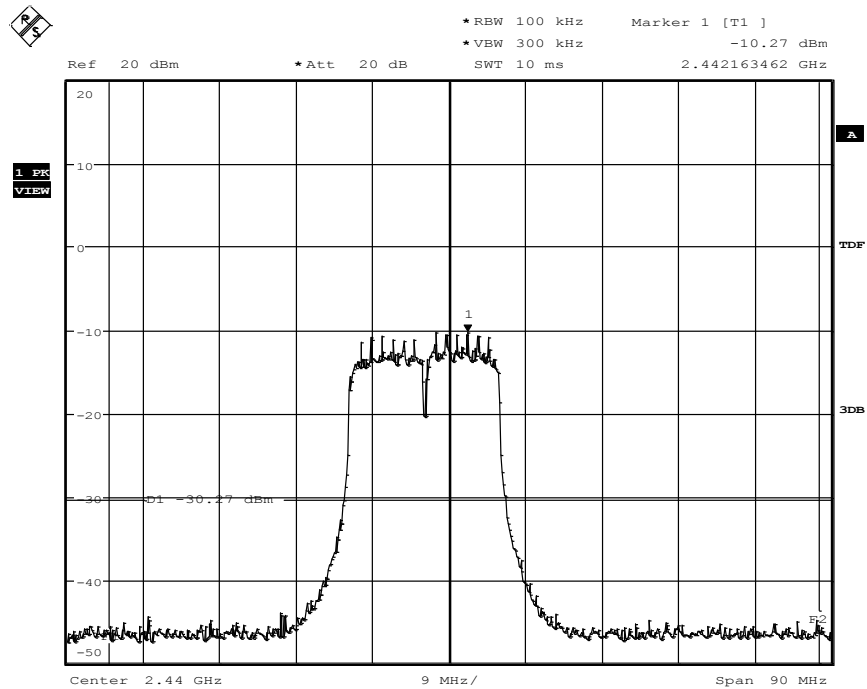
Date: 28.AUG.2015 11:08:28

3.5.7.4. Sweep 3: 2.8GHz to 25GHz

Date: 28.AUG.2015 11:11:45

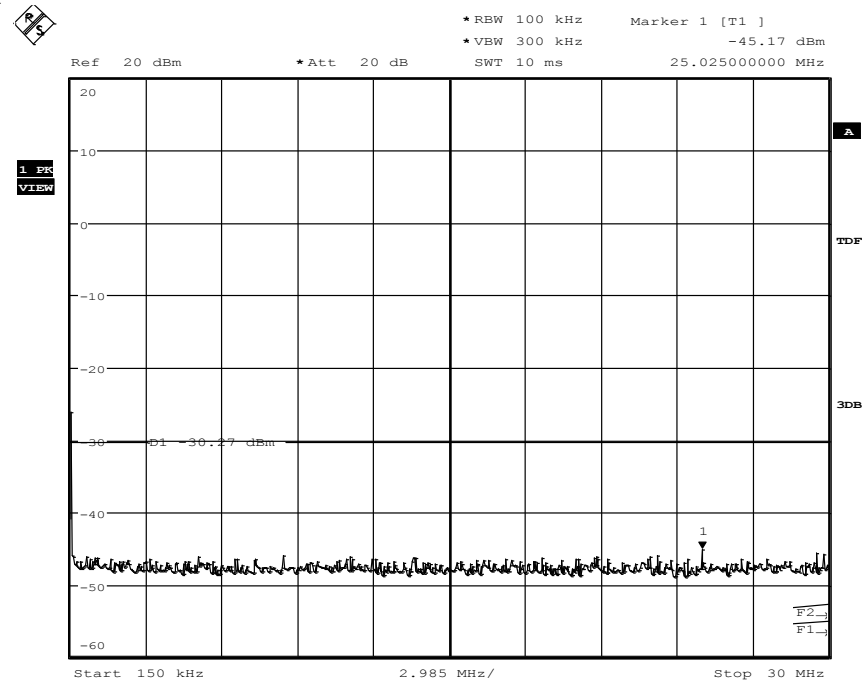
3.5.8. n-Mode Channel 6

3.5.8.1. Channel 6 Reference



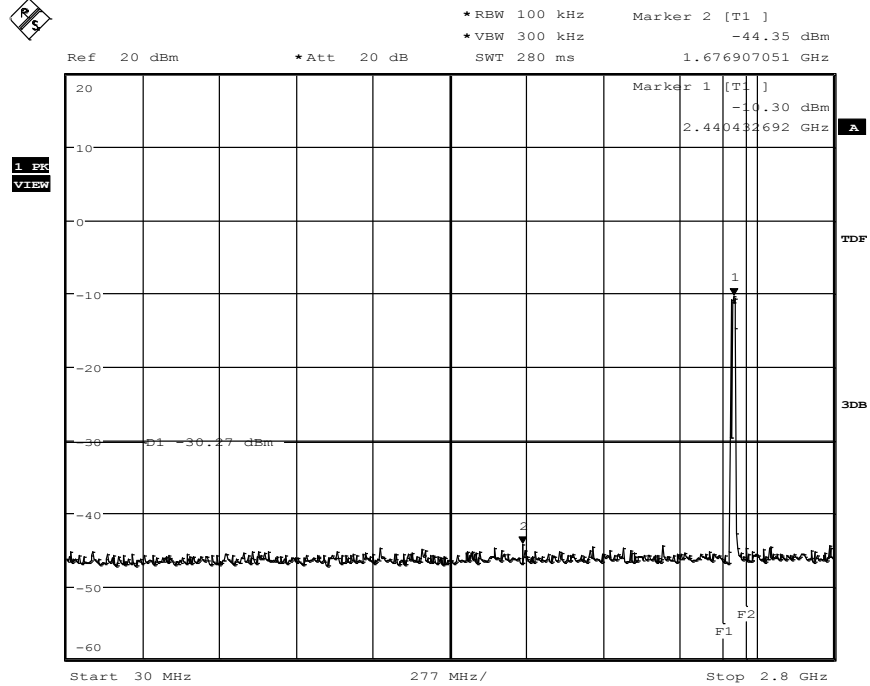
Date: 28.AUG.2015 10:49:49

3.5.8.2. Sweep 1: 150kHz to 30MHz



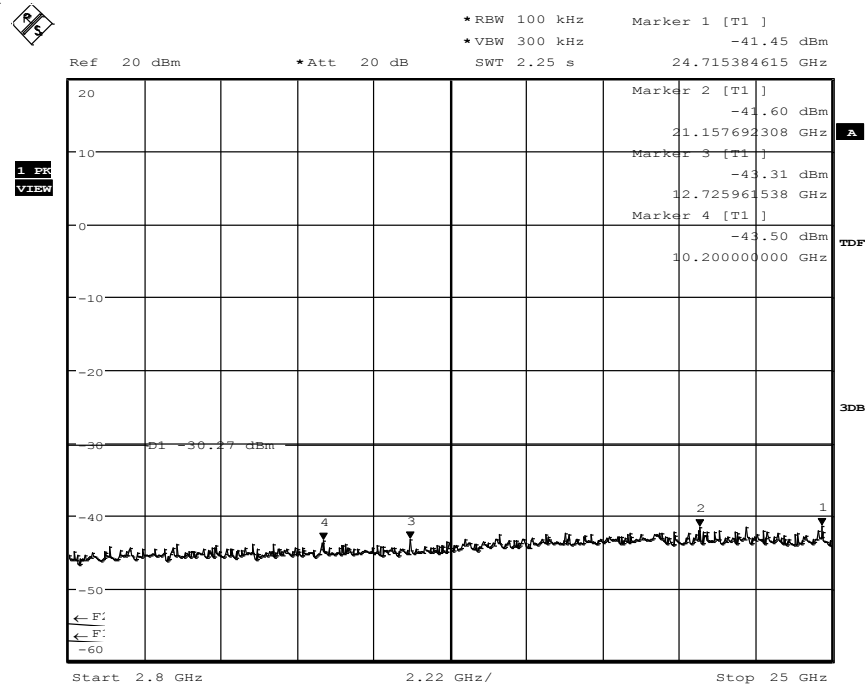
Date: 28.AUG.2015 10:53:24

3.5.8.3. Sweep 2: 30MHz to 2.8GHz



Date: 28.AUG.2015 10:56:41

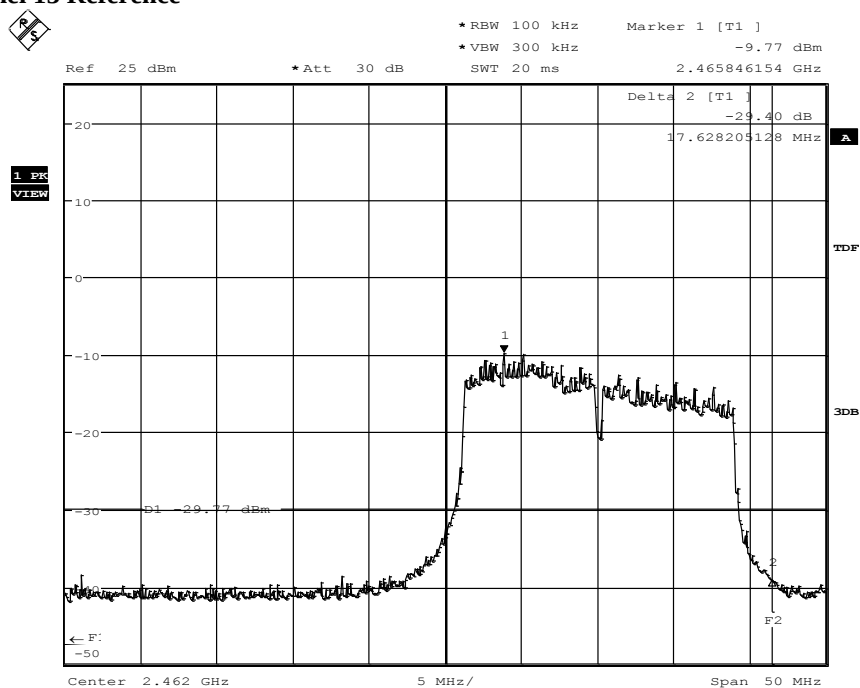
3.5.8.4. Sweep 3: 2.8GHz to 25GHz



Date: 28.AUG.2015 11:00:25

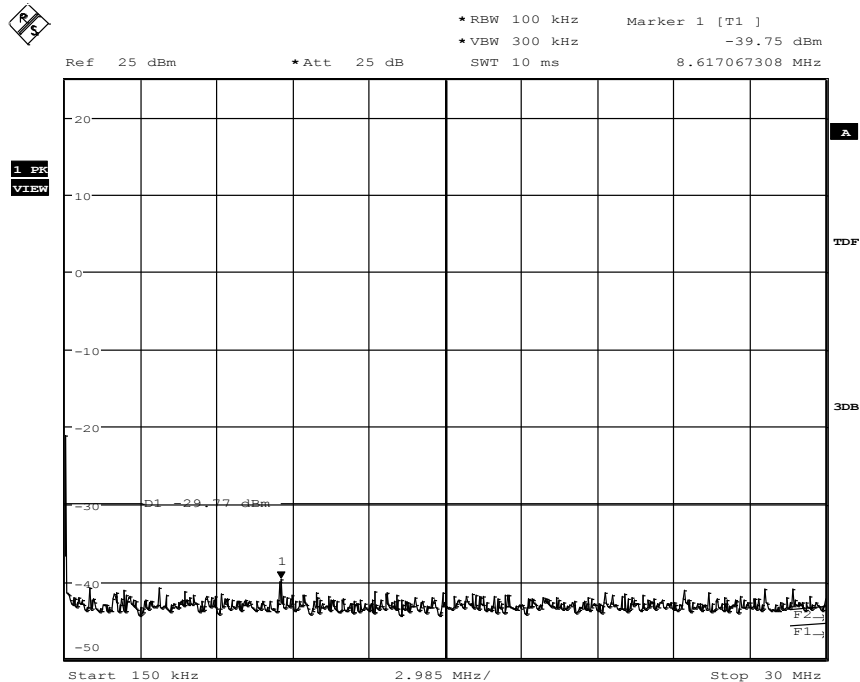
3.5.9. n-Mode Channel 13

3.5.9.1. Channel 13 Reference

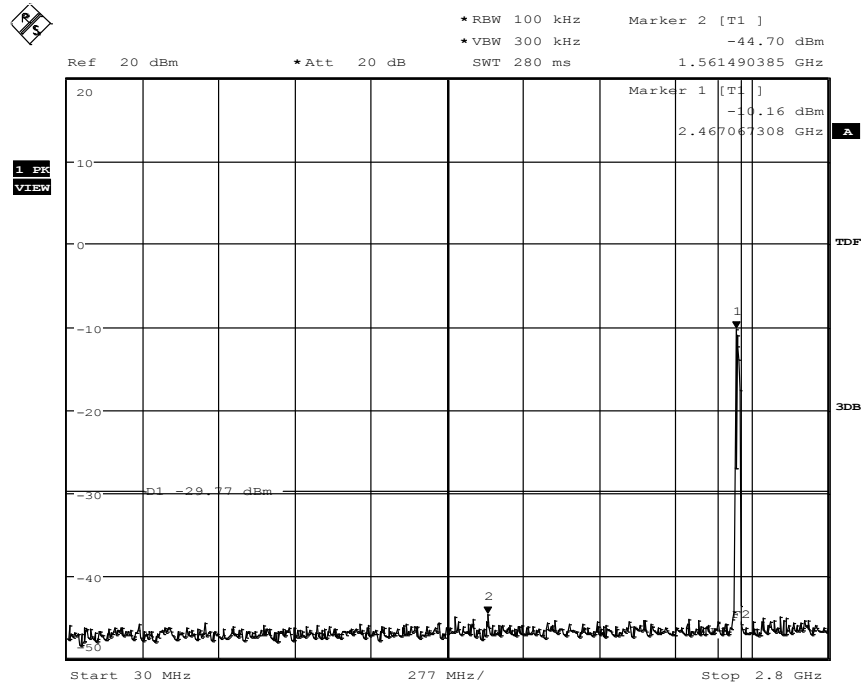


Date: 28.AUG.2015 10:31:42

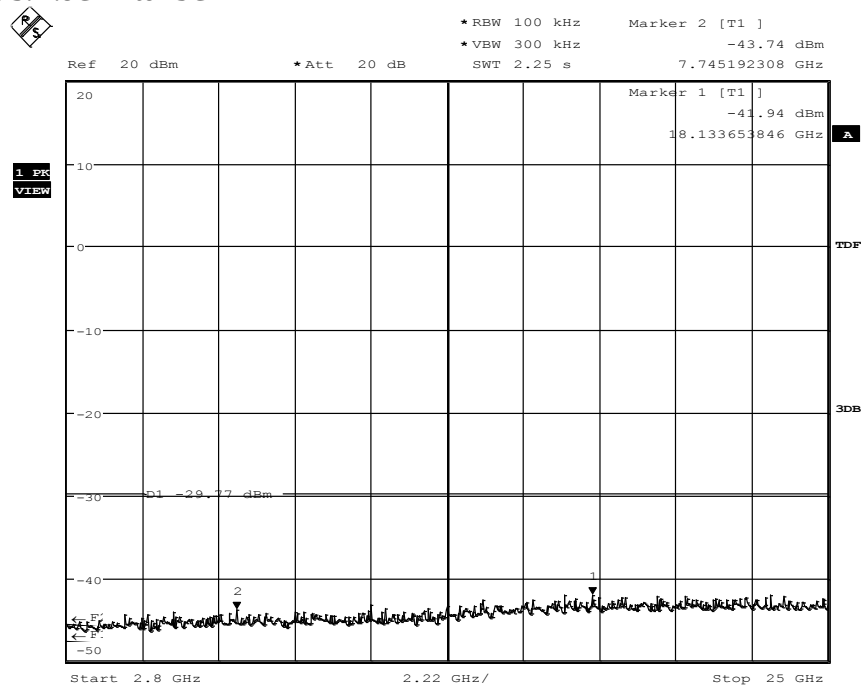
3.5.9.2. Sweep 1: 150kHz to 30MHz



Date: 28.AUG.2015 10:34:28

3.5.9.3. Sweep 2: 30MHz to 2.8GHz

Date: 28.AUG.2015 10:40:45

3.5.9.4. Sweep 3: 2.8GHz to 25GHz

Date: 28.AUG.2015 10:44:56