

Annex 1: Measurement diagrams to
TEST REPORT
No.: 15-1-0017001T41a

According to:
FCC Regulations
Part 15.209
Part 15.247

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

for

Peiker acustic GmbH & Co.KG

ATM-01 R2-US-4GW

FCC-ID: QWY-ATM-R-622
IC: 6588A-ATMR622
PMN: ATM roof version
HVIN: ATM-01 R2-US-4GW

Laboratory Accreditation and Listings			
 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 TM Test Lab Lab Code: 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
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Table of contents

1. Measurement Results	3
1.1. Conducted EMI measurements on AC-mains port according 15.207, class B	3
1.2. Magnetic field strength measurements in the range 9 kHz to 30 MHz	4
1.3. Field strength measurements 30MHz <f <1GHz	10
1.4. Field strength measurements 1GHz < f < 18GHz	16
1.5. Radiated band-edge measurements accord. §15.209 & §15.205 (§15.247)	19
1.6. Duty Cycle	25
1.7. Conducted RF-measurements on antenna port	28
1.8. 99% Occupied Bandwidth	32
1.9. Power Spectral Density	35
1.10. 20dBc Emissions	48

1. Measurement Results

1.1. Conducted EMI measurements on AC-mains port according 15.207, class B

Not applicable since EUT (ATM-01 R2-US-4GW) is powered from 24V DC car battery.

1.2. Magnetic field strength measurements in the range 9 kHz to 30 MHz

1.2.1. b-Mode Modulation

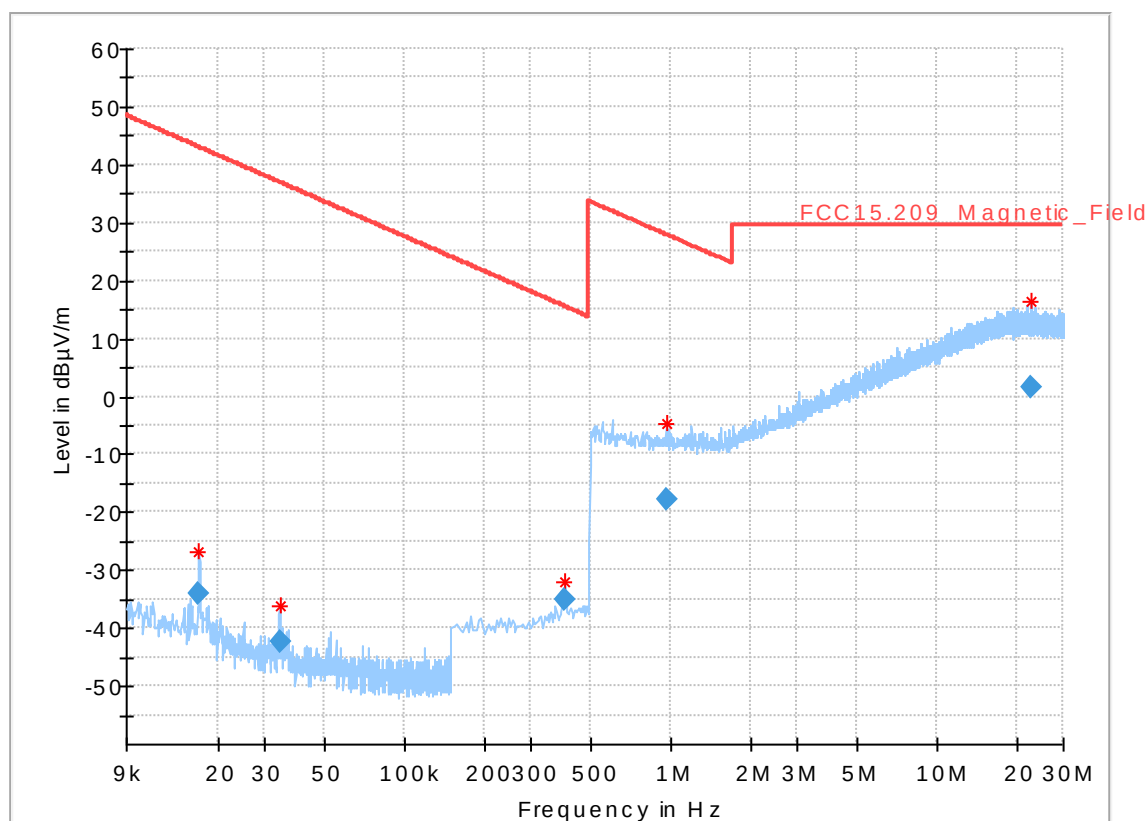
2.01_TX_Ch1_bMode_11MBit

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:	KMo
Operating conditions:	W-LAN, b-Mode, 11MBit, Ch1
Power during tests:	14V DC

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidth (kHz)	Heigh t (cm)	Pol	Azimet h (deg)	Corr. (dB)
0.016920	-34.01	43.03	77.03	1000.0	0.200	100.0	H	39.0	-58.7
0.033960	-42.34	36.98	79.32	1000.0	0.200	100.0	H	170.0	-59.5
0.402000	-35.00	15.52	50.52	1000.0	10.000	100.0	V	293.0	-52.0
0.962000	-17.76	27.96	45.72	1000.0	10.000	100.0	V	7.0	-20.1
22.894000	1.48	29.54	28.06	1000.0	10.000	100.0	V	347.0	0.9

1.2.2. g-Mode Modulation

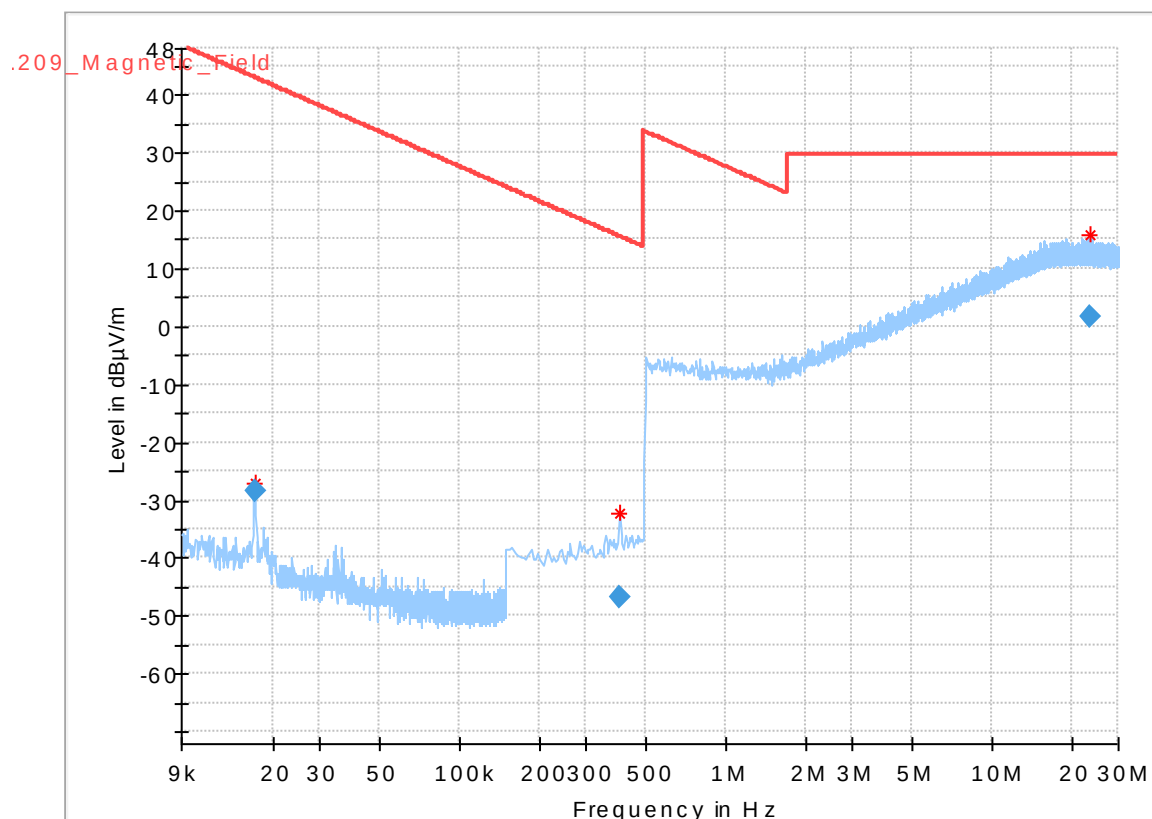
2.02_TX_Ch6_gMode_12MBit

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:	KMo
Operating conditions:	TX-on
Power during tests:	14V DC

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidth (kHz)	Heigh t (cm)	Pol	Azimuth h (deg)	Corr. (dB)
0.017000	-28.25	42.99	71.24	1000.0	0.200	100.0	H	186.0	-58.7
0.402000	-46.92	15.52	62.44	1000.0	10.000	100.0	V	229.0	-52.0
23.490000	1.52	29.54	28.02	1000.0	10.000	100.0	V	253.0	0.9

1.2.3. n-Mode Modulation

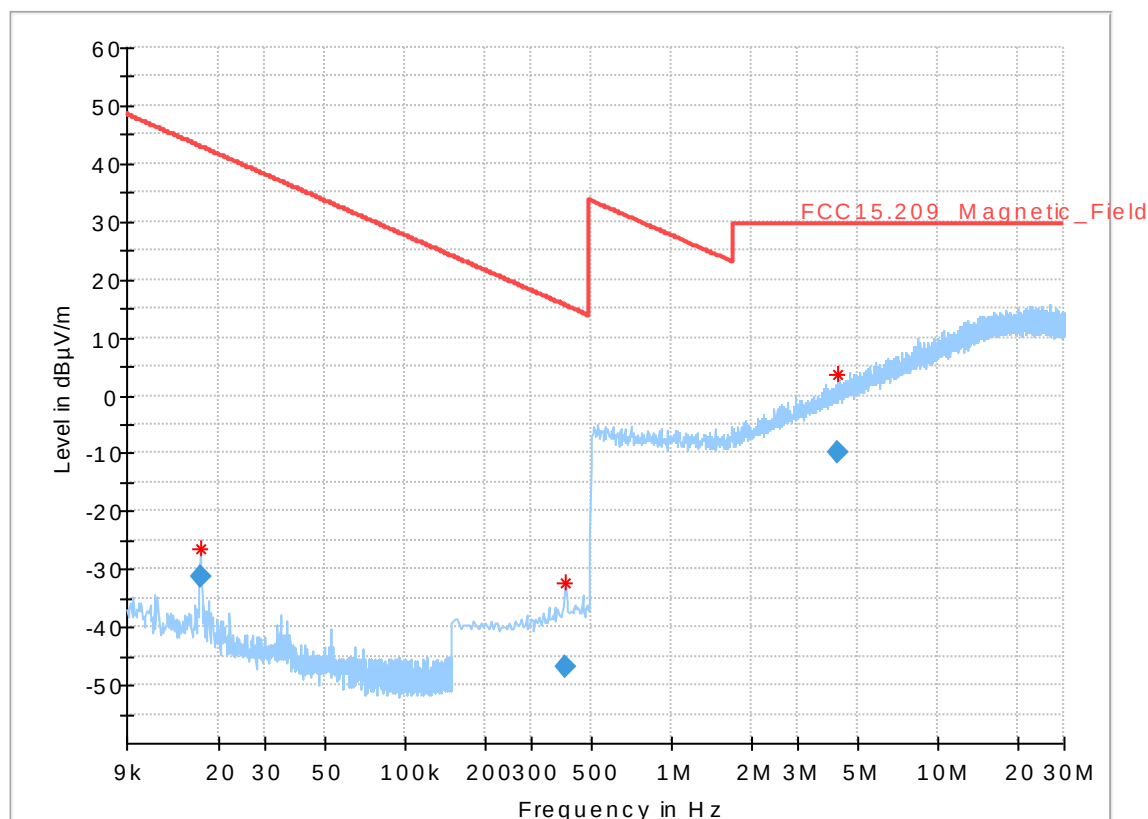
2.04_TX_Ch13_nMode_MCS0

Test description:	Magnetic Field Strength Measurement related to 30 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:	KMo
Operating conditions:	TX-on - nominal channel, continuous, modulation on
Power during tests:	14V DC

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	--

Full Spectrum



Final_Result

Frequency (MHz)	RMS (dB μ V/m)	Limit (dB μ V/m)	Margi n (dB)	Meas. Time (ms)	Bandwidth (kHz)	Heigh t (cm)	Pol	Azimuth h (deg)	Corr. (dB)
0.017000	-31.22	42.99	74.21	1000.0	0.200	100.0	H	111.0	-58.7
0.398000	-47.01	15.61	62.62	1000.0	10.000	100.0	V	18.0	-52.1
4.246000	-9.98	29.54	39.52	1000.0	10.000	100.0	H	129.0	-11.6

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

1.3.1. b-Mode Modulation

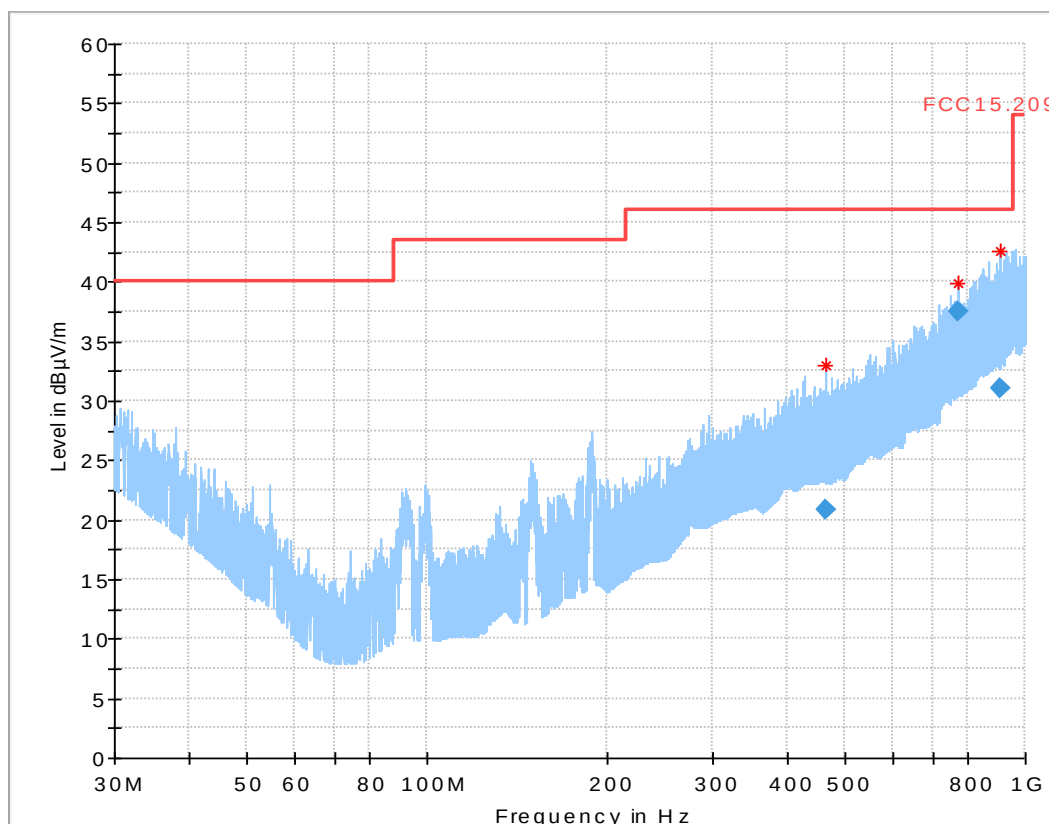
Diagram No. 3.02_TX_Ch1_bMode_11MBit

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-247, Issue 1
Operator:	Lor
Operating conditions:	W-LAN, b-Mode, 11MBit, Ch1
Power during tests:	14V DC
Comment 1:	--

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
465.050000	20.81	46.00	25.19	1000.0	120.000	363.0	H	262.0	19.6
775.010000	37.50	46.00	8.50	1000.0	120.000	105.0	H	128.0	24.9
911.470000	31.01	46.00	14.99	1000.0	120.000	282.0	V	312.0	27.3

1.3.2. g-Mode Modulation

Diagram No. 3.03_TX_Ch6_gMode_12MBit

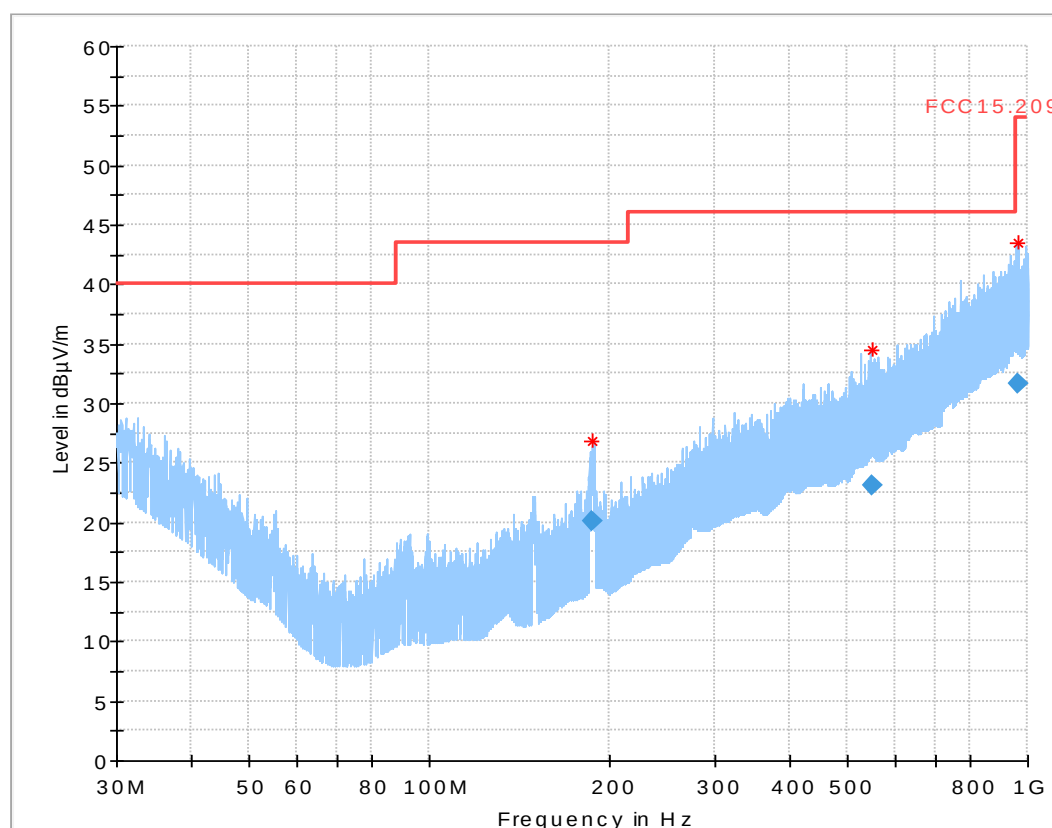
Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.209; RSS-247, Issue 1
Operator:	Lor
Operating conditions:	W-LAN, g-Mode, 12MBit, Ch6
Power during tests:	14V DC
Comment 1:	--

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW

HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
187.760000	20.10	43.50	23.40	1000.0	120.000	109.0	V	87.0	11.3
548.260000	23.14	46.00	22.86	1000.0	120.000	360.0	V	181.0	21.8
965.230000	31.65	54.00	22.35	1000.0	120.000	192.0	H	116.0	27.4

1.3.3. n-Mode Modulation

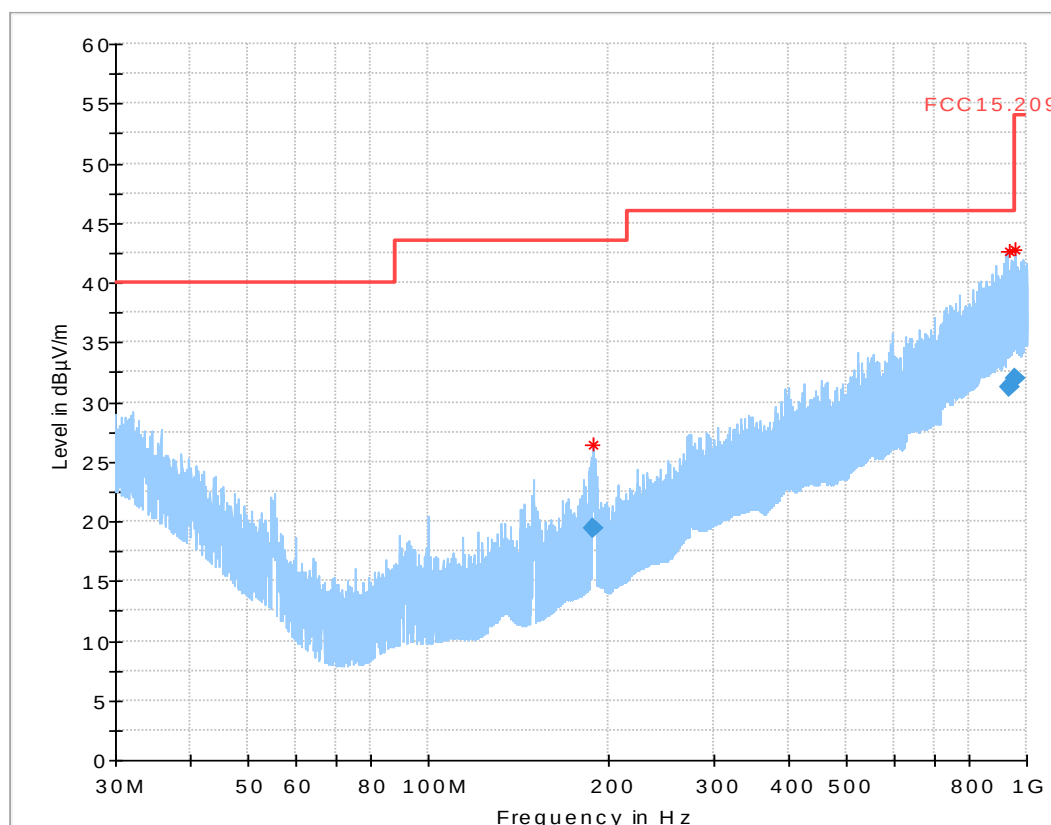
Diagram No. 3.04_TX_Ch13_nMode_MCS0

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-247, Issue 1
Operator:	Lor/KMo
Operating conditions:	W-LAN, n-Mode, MCS0, Ch13
Power during tests:	14V DC

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
188.130000	19.42	43.50	24.08	1000.0	120.000	105.0	V	54.0	11.3
932.280000	31.22	46.00	14.78	1000.0	120.000	344.0	V	142.0	26.8
957.990000	32.03	46.00	13.97	1000.0	120.000	161.0	V	359.0	27.4

1.4. Field strength measurements 1GHz < f < 18GHz

1.4.1. b-Mode Modulation

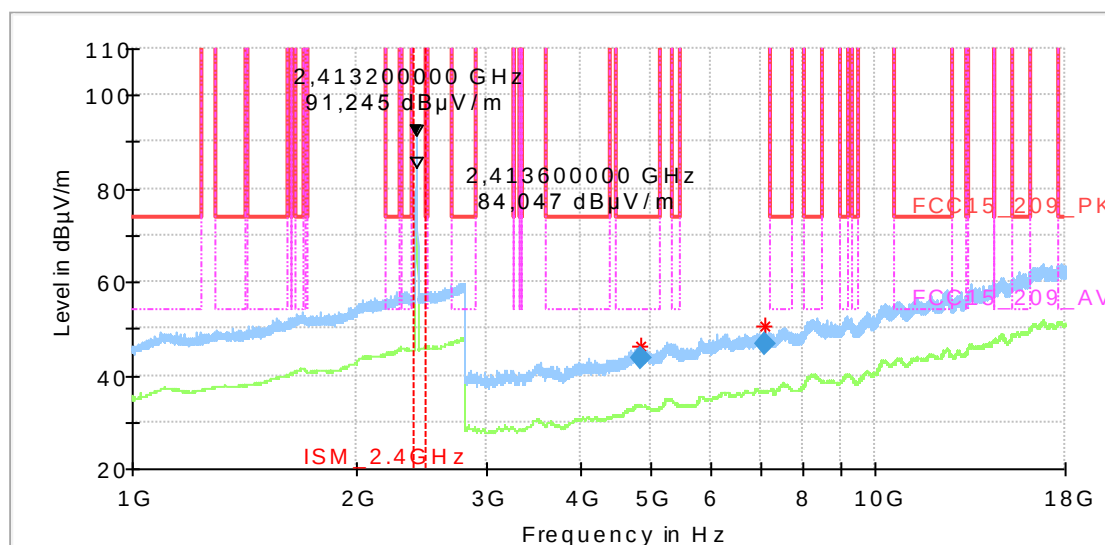
Diagram No.: 4.01_Ch1 _b-Mode_11Mbits

Common Information

Test Description:	Radiated field strength emission WLAN 2.4GHz
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity:25 %rH; Temperature: 23 °C
Operation mode:	WLAN 802.11b-mode, BW 20 MHz channel 1; Data rate 11Mbit ; Power 0 dBm
Operator Name:	YZH

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



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)
4821.550000	43.79	---	74.00	30.21	100.0	1000.000	155.0	V	255.0	90.0
7101.690000	46.77	---	150.00	103.23	100.0	1000.000	155.0	H	-3.0	0.0

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

Frequency (MHz)	Corr .	Comment
4821.550000	4.8	17:11:33 - 26.02.2016
7101.690000	10.3	17:09:40 - 26.02.2016

1.4.2. g-Mode Modulation

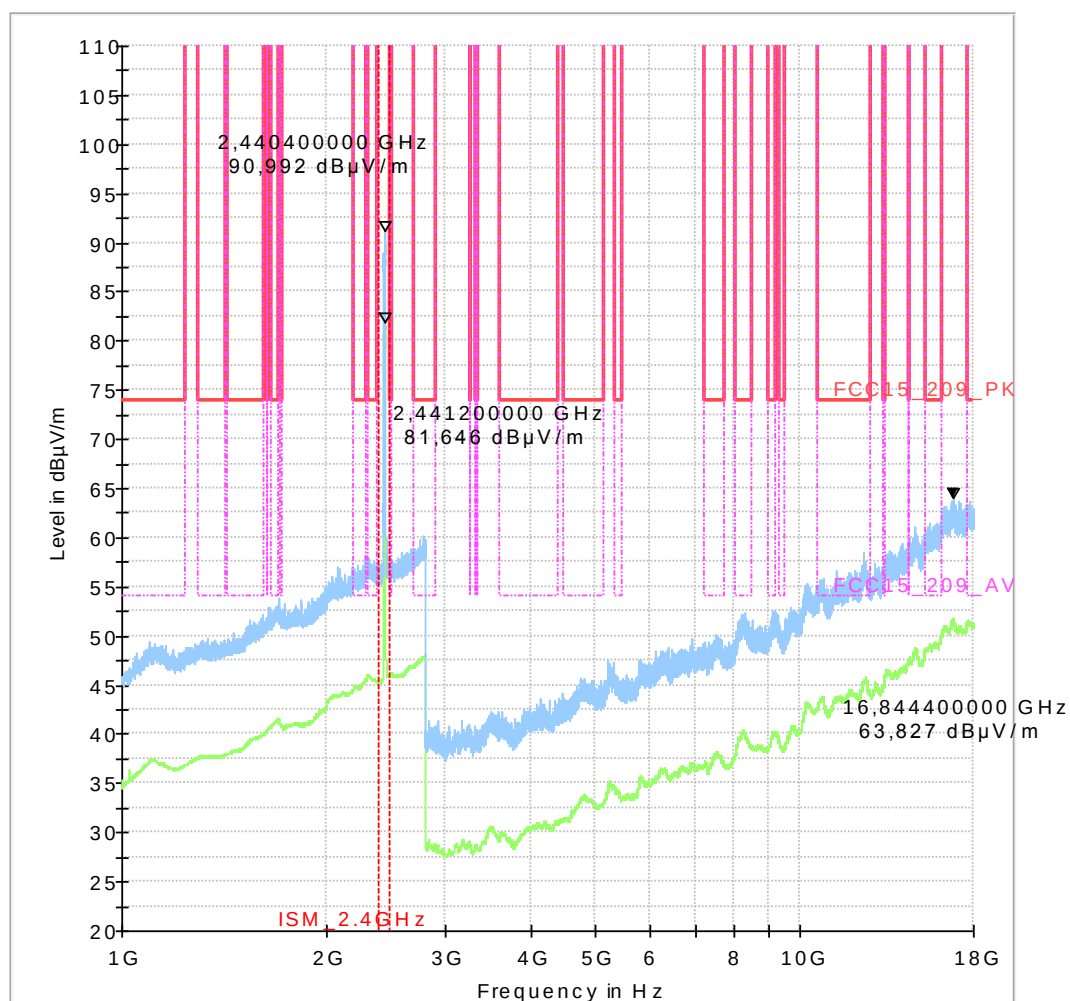
Diagram No.: 4.02_Ch6 _g-Mode_12Mbit

Common Information

Test Description:	Radiated field strength emission WLAN 2.4GHz
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Comment:	horizontal/vertical
Environmental Condition:	Humidity:25 %rH; Temperature: 23 °C
Operation Mode:	WLAN 802.11g-mode, BW 20 MHz channel 6; Data rate 12Mbit ; Power 0 dBm
Operator:	YZH

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



1.4.3. n-Mode Modulation

Diagram No.: 4.04_Ch13 _n-Mode_MCS2

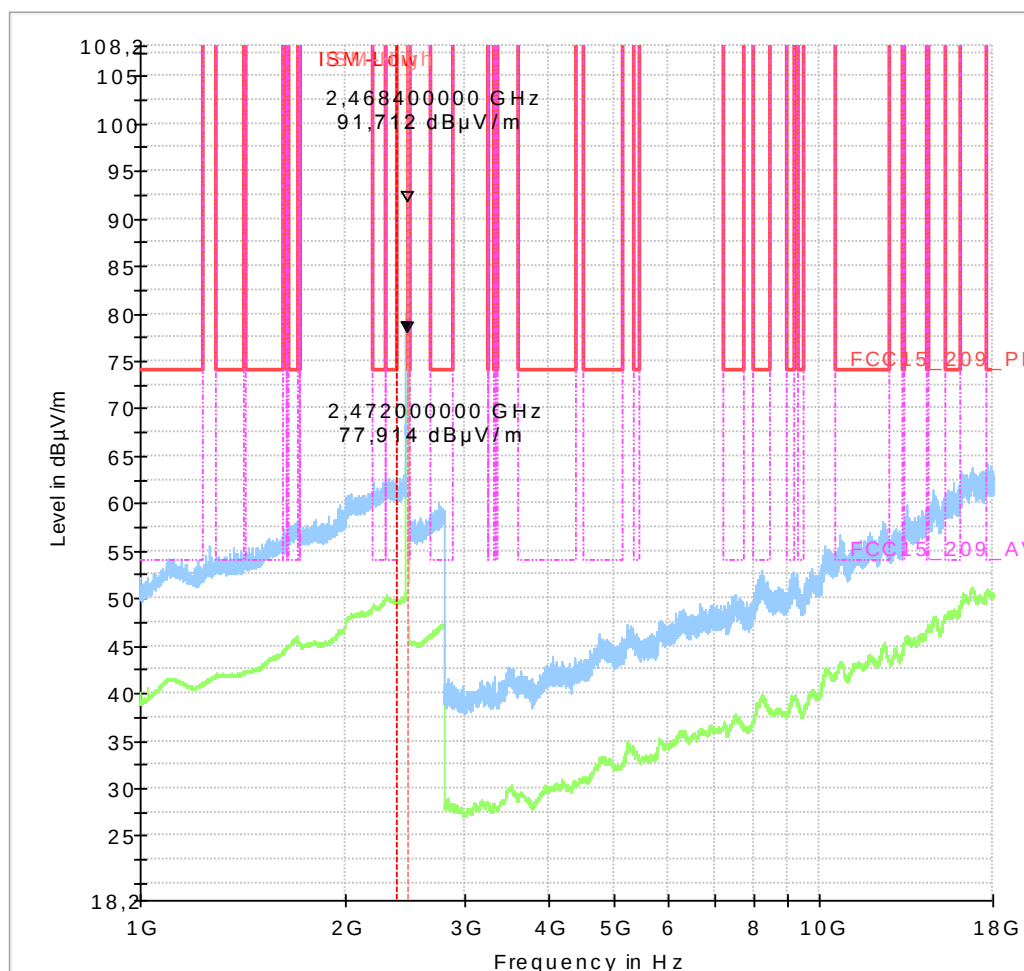
Common Information

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
Test SW Version:	EMC32 V9.26.0
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. high=13
Comment2:	Modulation Type: n-Mode Data Rate: MCS2

EUT Information

Manufacturer:	peiker acustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	

Full Spectrum



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

1.5.1. Channel 1 (left band edge)_b mode _11 MBits

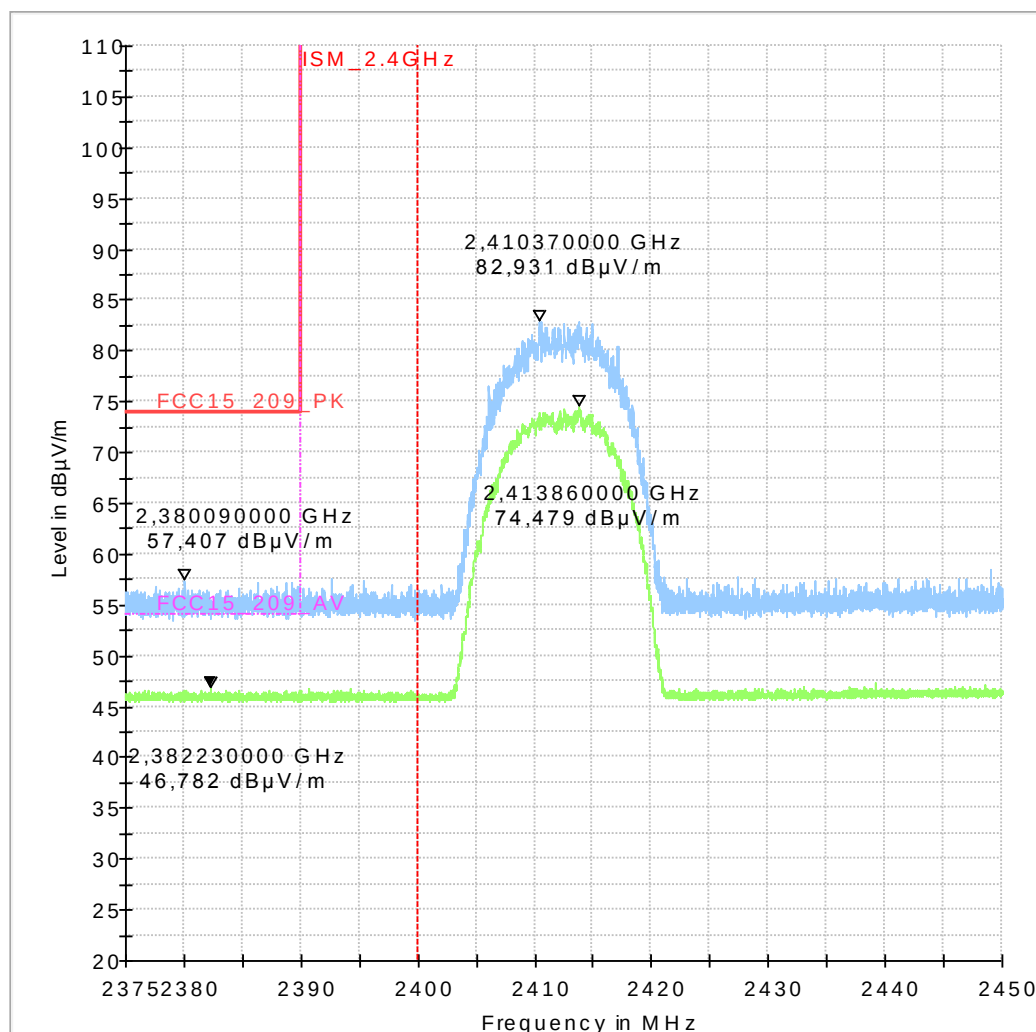
Diagram No.: 9.01a_TX_ WLAN_ Ch1 _b-Mode_11Mbits

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
Environmental Conditions:	Humidity:25 %rH; Temperature: 23 °C
Operation mode:	WLAN 802.11b-mode, BW 20 MHz channel 1; Data rate 11Mbit ; Power 0 dBm
Operator Name:	RLs

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



1.5.2. Channel 13 (right band edge)_ b mode _11 MBits

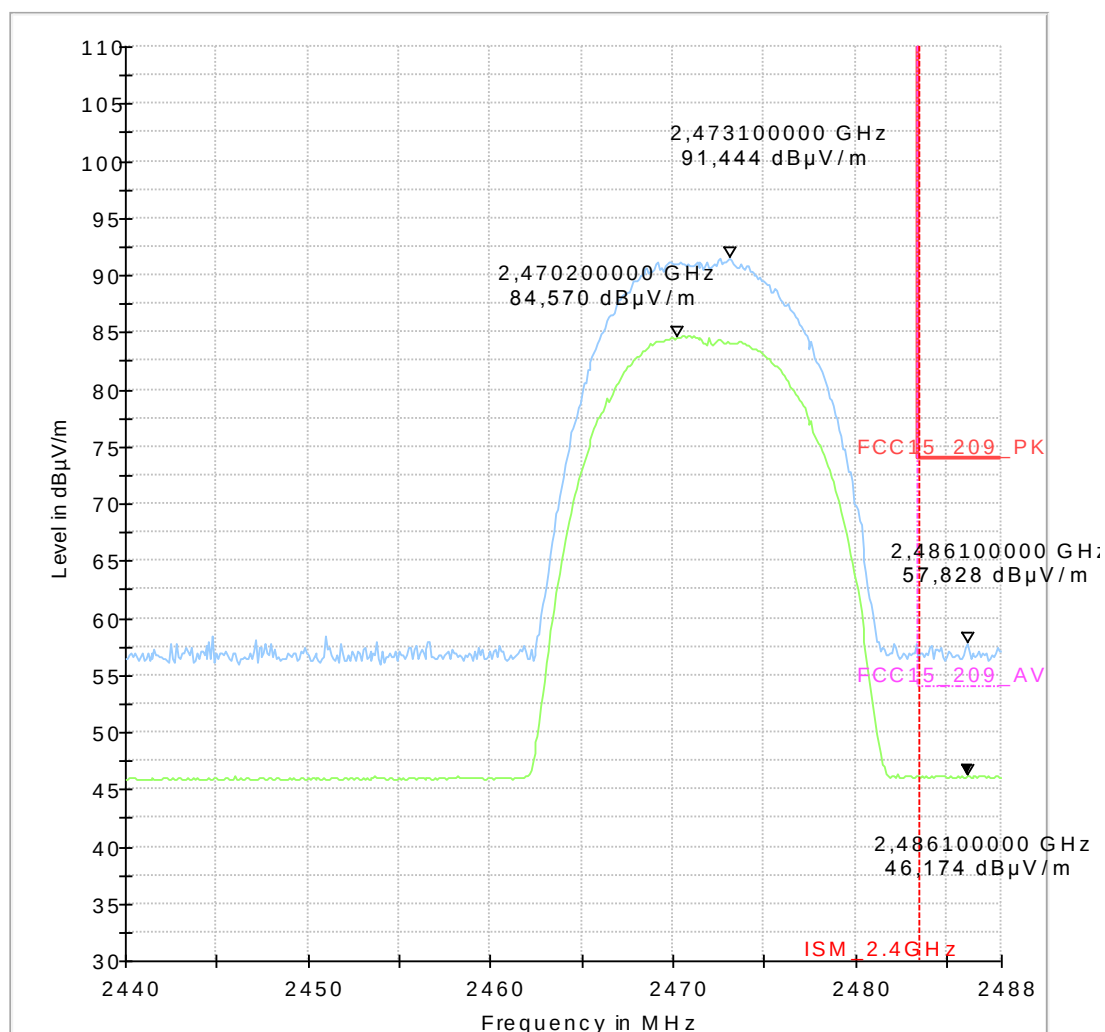
Diagram No.: 9.01b_Ch13 _b-Mode_11MBits

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
Environmental Condition:	Humidity:25 %rH; Temperature: 23 °C
Operation mode:	WLAN 802.11b-mode, BW 20 MHz channel 13; Data rate 11Mbit ; Power 0 dBm
Operator Name:	YZH

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



1.5.3. Channel 1 (left band edge)_g mode _12 Mbits

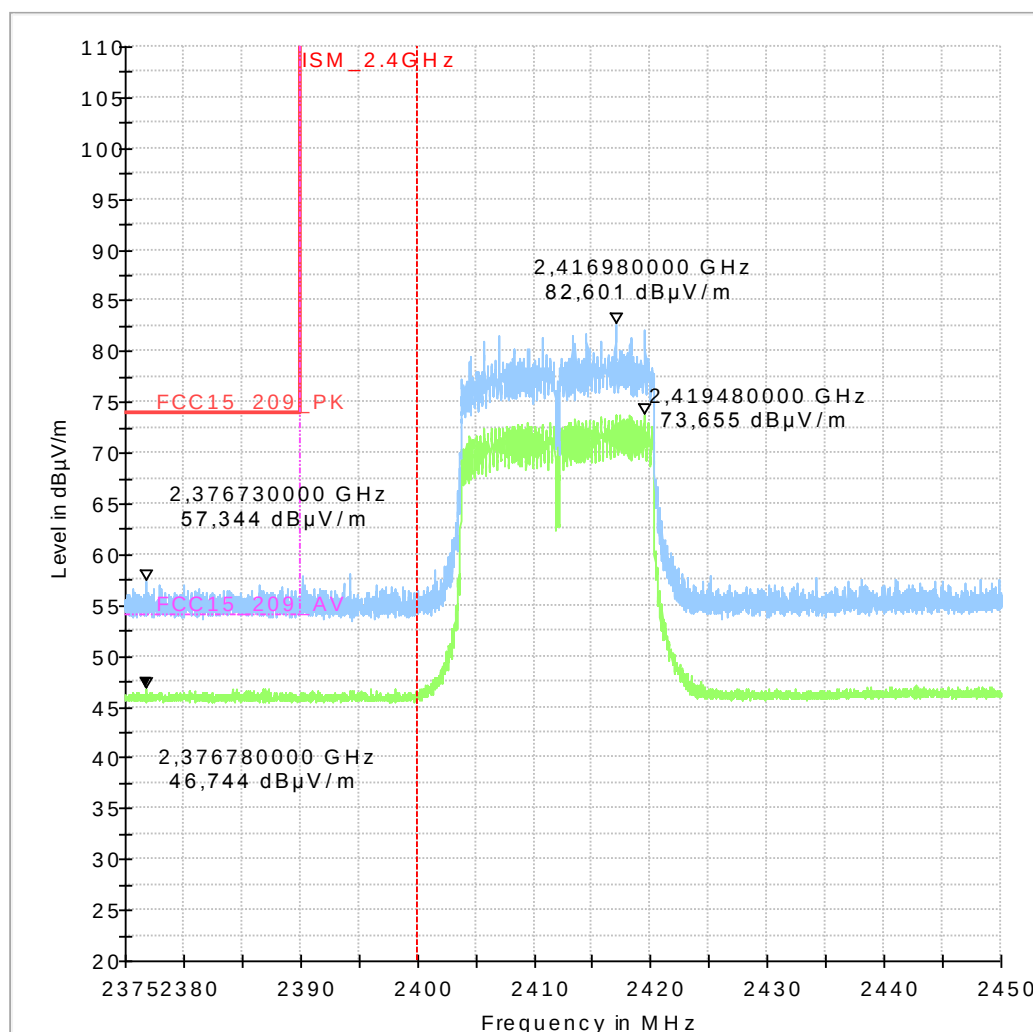
Diagram No.: 9.02a_ Ch1 _g-Mode_12Mbits

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
Environmental Condition:	Humidity:25 %rH; Temperature: 23 °C
Operation mode:	WLAN 802.11g-mode, BW 20 MHz channel 1; Data rate 12Mbit ; Power 0 dBm
Operator Name:	YZH

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



1.5.4. Channel 13 (right band edge)_g mode _12Mbits

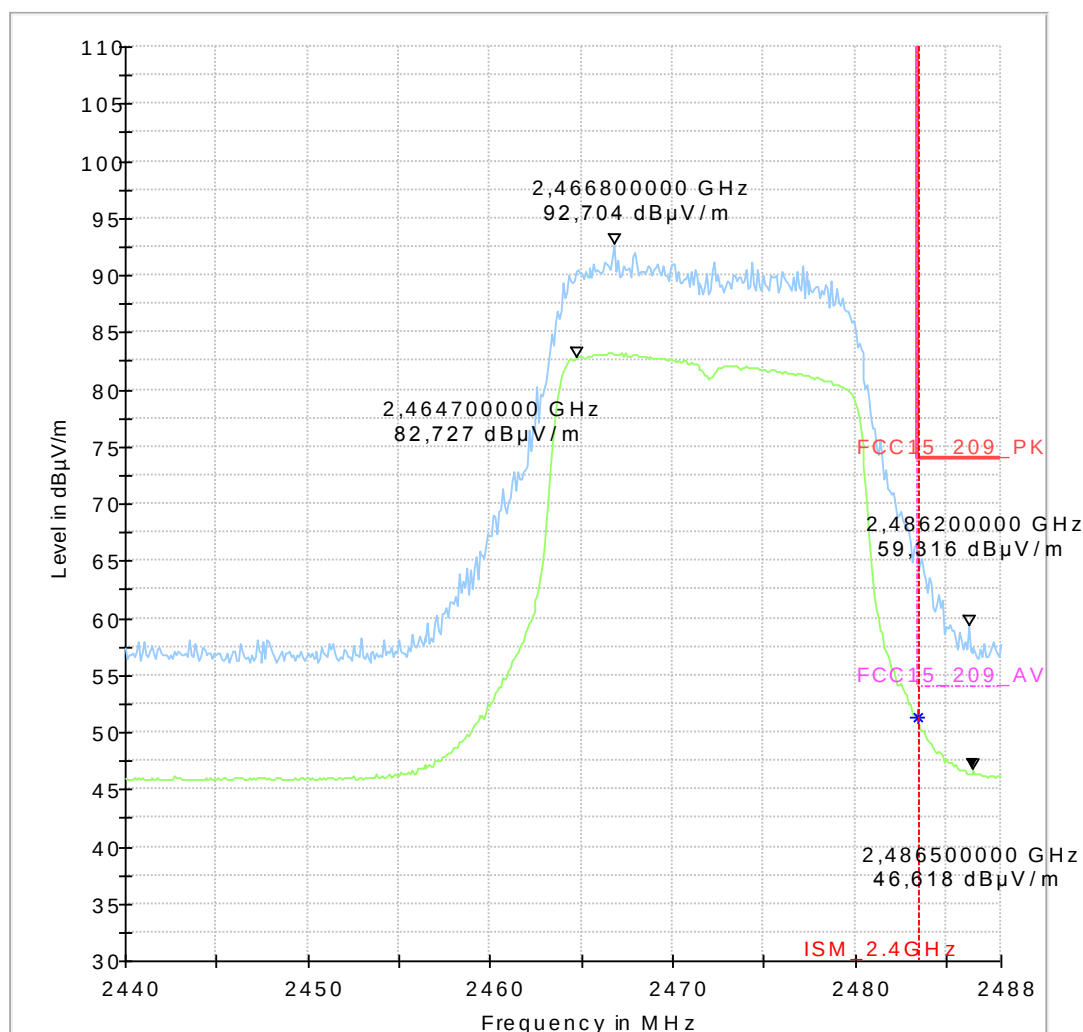
Diagram No.: 9.02b_Ch13 _g-Mode_12Mbits

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
Environmental Condition:	Humidity:25 %rH; Temperature: 23 °C
Operation mode:	WLAN 802.11g-mode, BW 20 MHz channel 13; Data rate 12Mbit ; Power 0 dBm
Operator Name:	YZH

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



1.5.5. Channel 1 (left band edge)_n mode _MCS2

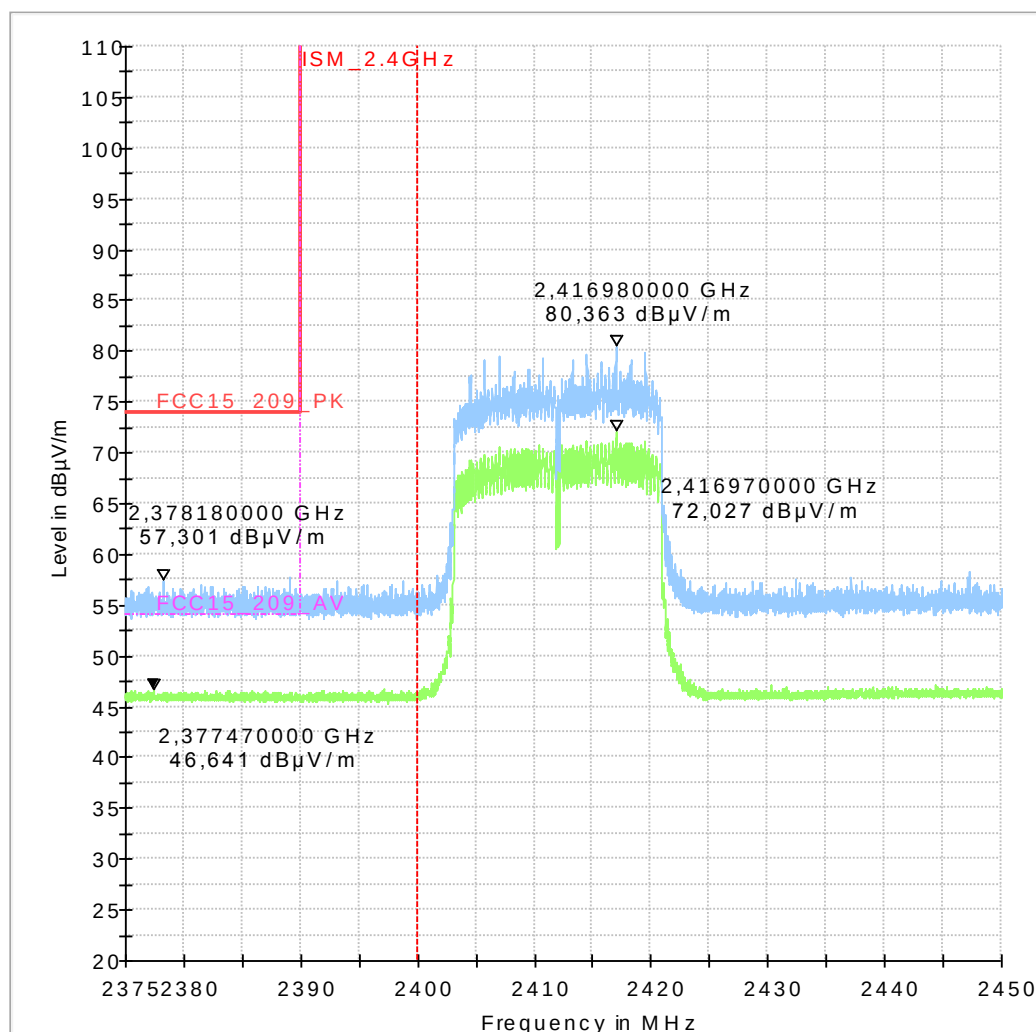
Diagram No.: 9.03a_ Ch1 _n-Mode_MCS2

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
Environmental Condition:	Humidity:25 %rH; Temperature: 23 °C
Operation Mode:	WLAN 802.11n-mode, BW 20 MHz channel 1; Data rate MCS2 ; Power 0 dBm
Operator:	YZH

EUT Information

Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



1.5.6. Channel 13 (right band edge)_ n mode _MCS2

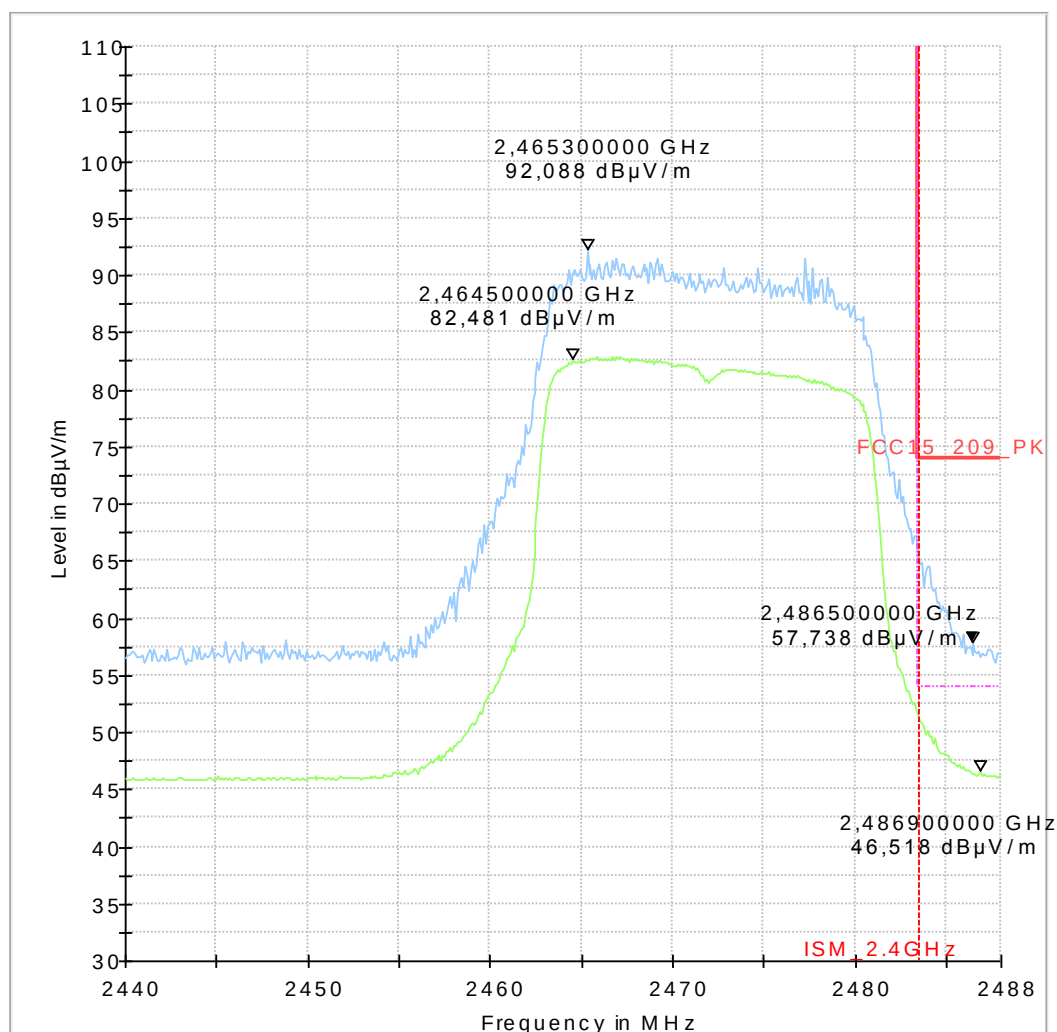
Diagram No.: 9.03b_ Ch13 _n-Mode_MCS2

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
Environmental Condition:	Humidity:25 %rH; Temperature: 23 °C
Operation mode:	WLAN 802.11n-mode, BW 20 MHz channel 13; Data rate MCS2 ; Power 0 dBm
Operator Name:	YZH

EUT Information

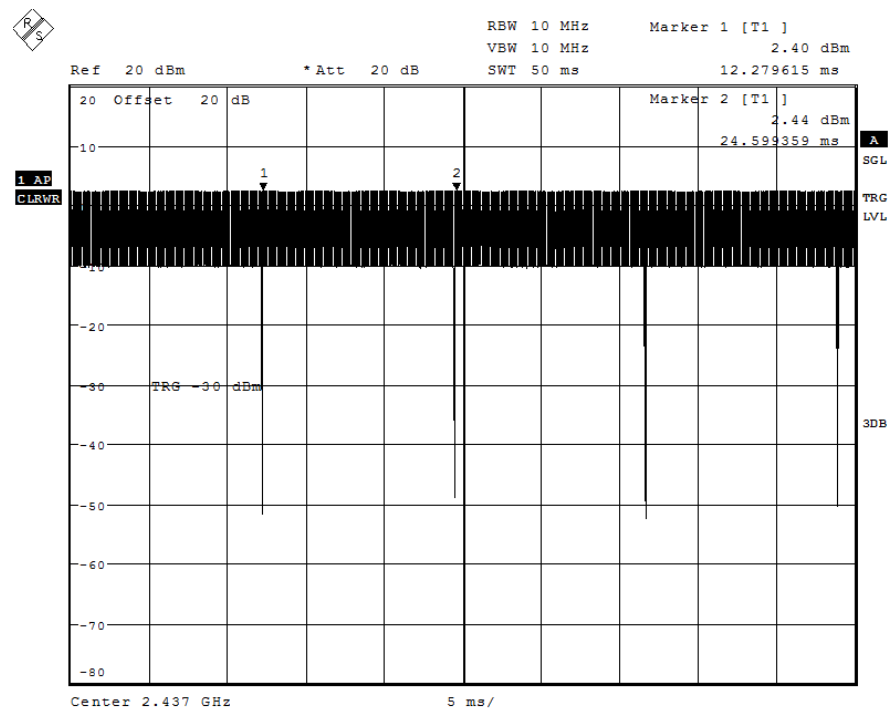
Manufacturer:	peiker acoustic GmbH & Co. KG
EuT:	ATM-01 R2-US-4GW
HW Version:	113.002.002
SW Version:	001.024.047
Serial Number:	747793
IMEI:	353813070003073
Connected Interfaces:	shark antenna with ground plane, Backup antenna, microphone, loudspeaker, cables
Power Supply:	14 VDC
Comments:	



1.6. Duty Cycle

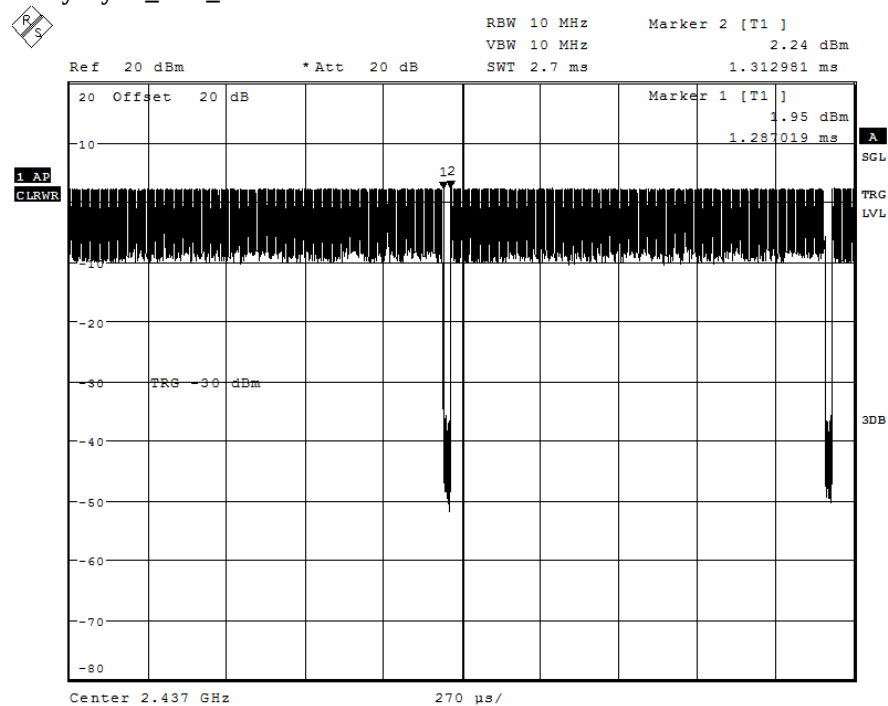
1.6.1. b Mode

Duty Cycle_Ch6_1MBit



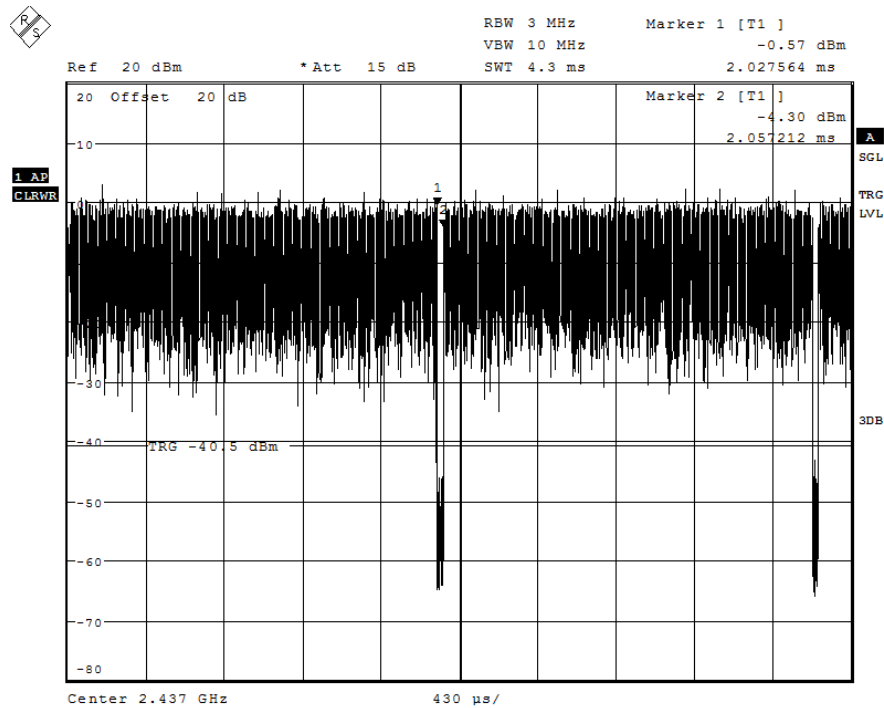
Date: 4.APR.2016 13:33:35

Duty Cycle_Ch6_11MBit



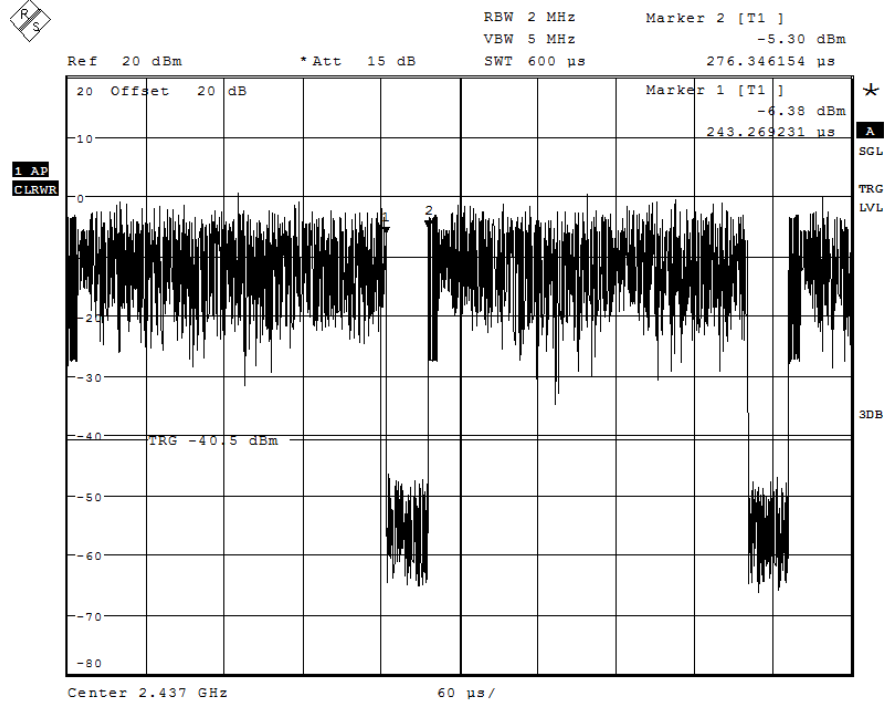
Date: 4.APR.2016 13:36:55

1.6.2. g Mode Duty Cycle_Ch6_6MBit



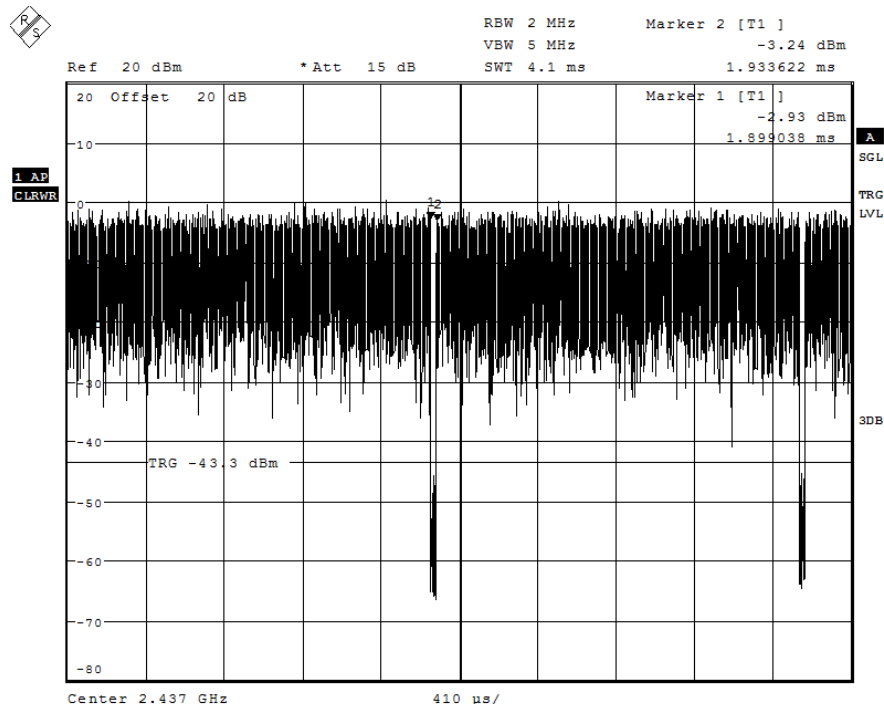
Date: 4.APR.2016 13:48:47

Duty Cycle_Ch6_54MBit



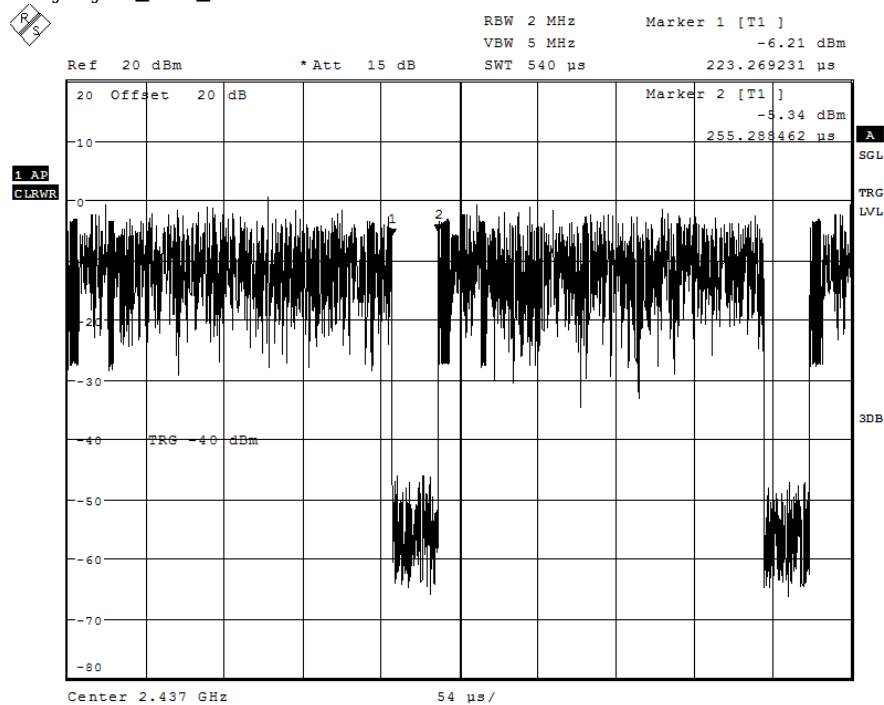
Date: 4.APR.2016 13:56:09

1.6.3. n Mode Duty Cycle_Ch6_MCS0



Date: 4.APR.2016 14:00:24

Duty Cycle_Ch6_MCS7



Date: 4.APR.2016 14:03:05

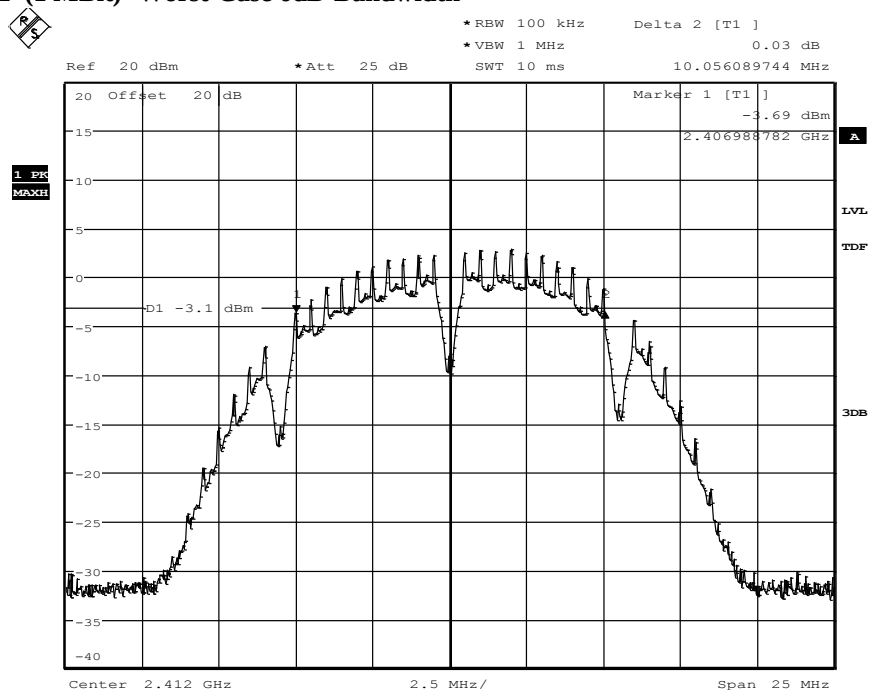
1.7. Conducted RF-measurements on antenna port

1.7.1. Conducted RF-power

b-mode		Channel no. / [dBm]			Max-Value / [dBm]
Data rate	Modulation	1	6	13	
1MBit		1,51	0,25	-0,26	1,51
2Mbit		0,99	0,21	-0,30	
5.5Mbit		0,93	0,14	-0,35	
11MBit		0,97	0,18	-0,30	
22MBit					
g-Mode		Channel no. / [dBm]			Max-Value / [dBm]
Data rate	Modulation	1	6	13	
6Mbit		1,49	1,41	0,91	1,87
9Mbit		1,48	1,39	0,81	
12Mbit		1,48	1,37	0,83	
18Mbit		1,52	1,38	0,86	
24Mbit		1,79	1,60	0,85	
36Mbit		1,82	1,63	0,86	
48Mbit		1,72	1,52	0,83	
54MBit		1,87	1,65	0,88	
				20	
n-Mode HT20 (1 spatial stream: 1SS)		Channel no. / [dBm]			Max-Value / [dBm]
Data rate	Modulation	1	6	13	
MCS0 -6.5Mbps	BPSK	1,37	1,33	1,15	1,76
MCS1 - 13Mbps	QPSK	1,41	1,37	1,19	
MCS2 - 19.5Mbps	QPSK	1,37	1,35	1,18	
MCS3 - 26Mbps	QAM16	1,64	1,50	0,79	
MCS4 -39Mbps	QAM16	1,67	1,53	0,79	
MCS5 - 52MBps	QAM64	1,67	1,55	0,79	
MCS6 - 58.5MBps	QAM64	1,76	1,60	0,89	
MCS7 - 65MBps	QAM64	1,74	1,58	0,85	

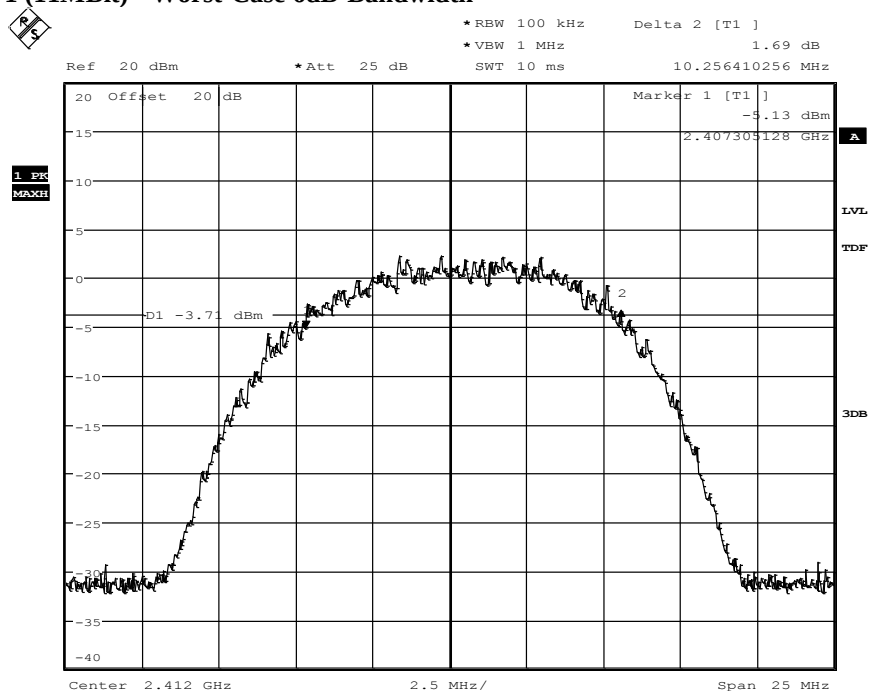
1.7.2. 6-dB Bandwidth (b-Mode)

Channel 1 (1 MBit)- Worst-Case 6dB-Bandwidth



Date: 4.APR.2016 14:49:51

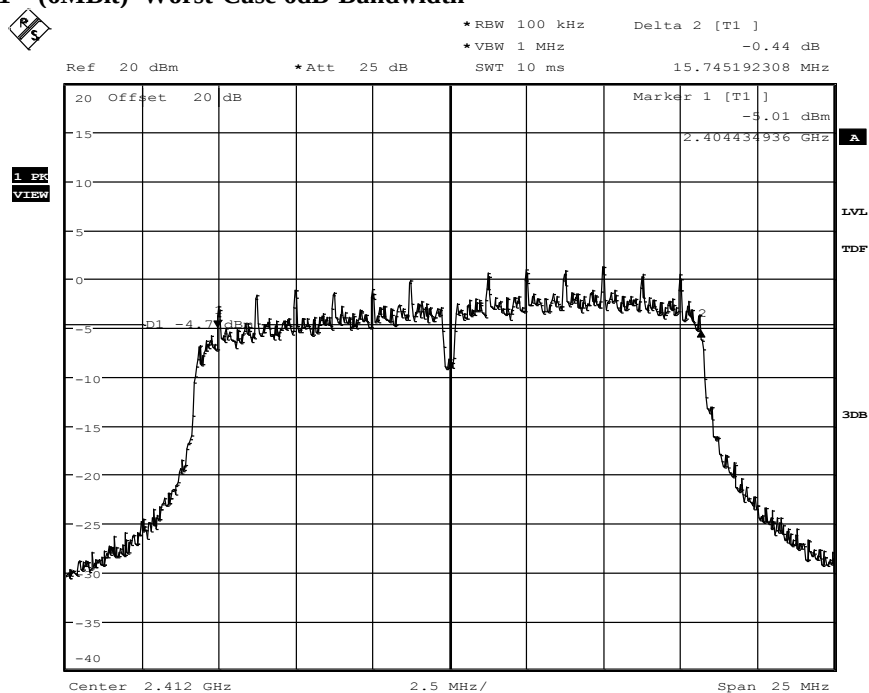
Channel 1 (11MBit) - Worst-Case 6dB-Bandwidth



Date: 4.APR.2016 14:46:38

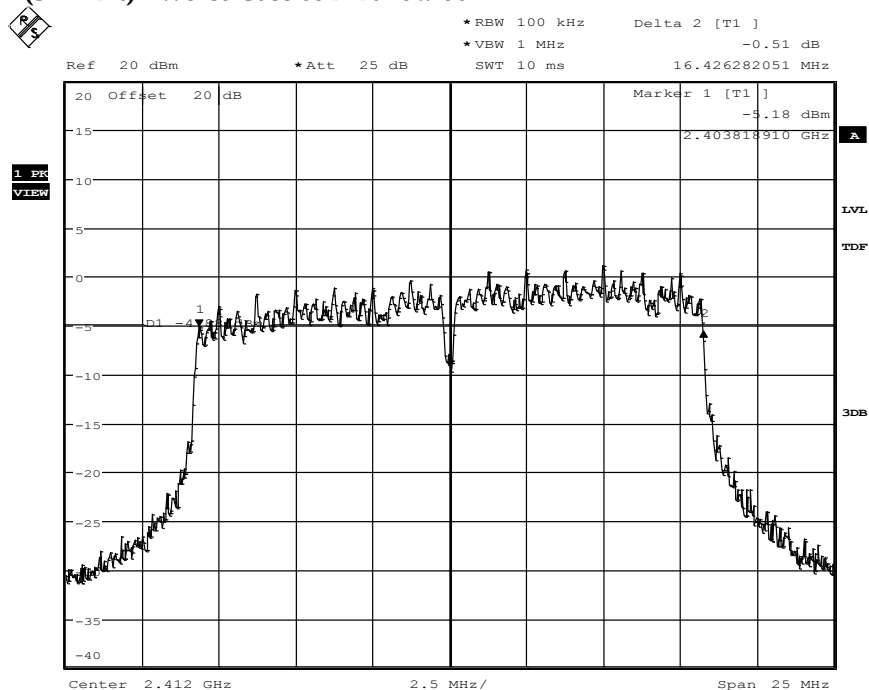
1.7.3. 6-dB Bandwidth (g-Mode)

Channel 1 – (6MBit) Worst-Case 6dB-Bandwidth



Date: 4.APR.2016 14:39:37

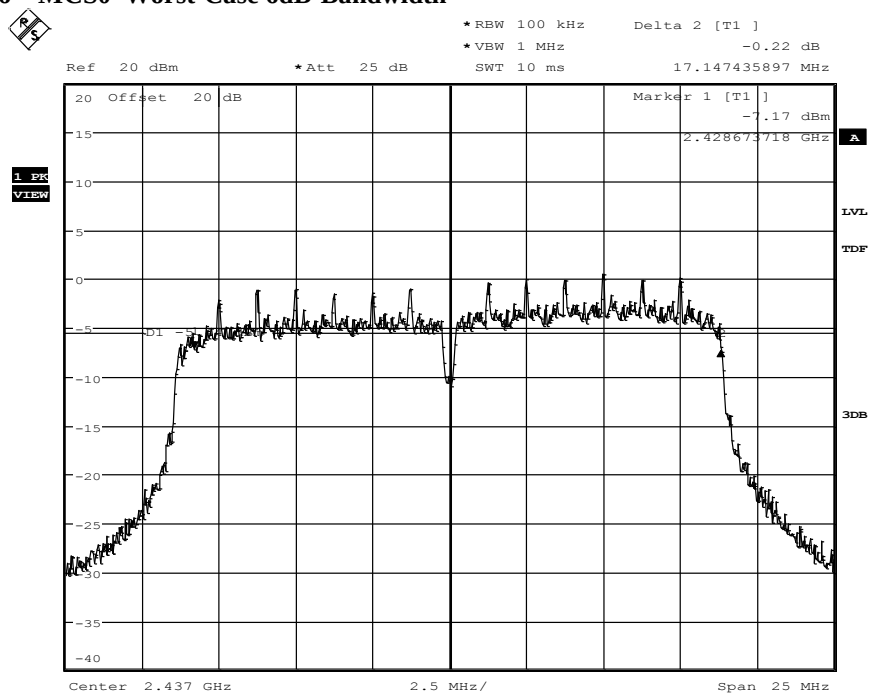
Channel 1 (54 MBit) - Worst-Case 6dB-Bandwidth



Date: 4.APR.2016 14:33:16

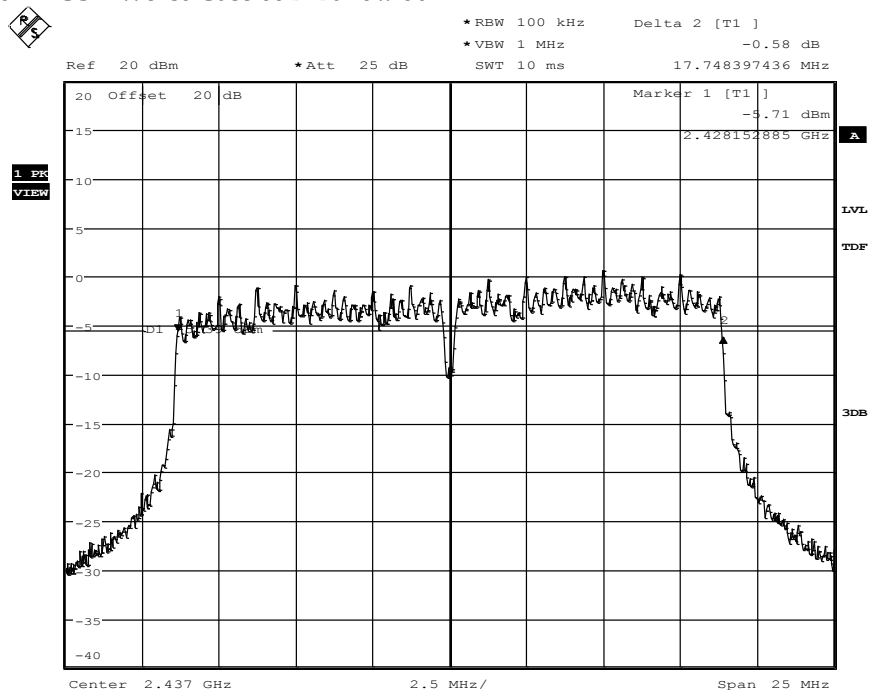
1.7.4. 6-dB Bandwidth (n-Mode)

Channel 6 – MCS0 Worst-Case 6dB-Bandwidth



Date: 4.APR.2016 14:26:32

Channel 6 – MCS7 Worst-Case 6dB-Bandwidth

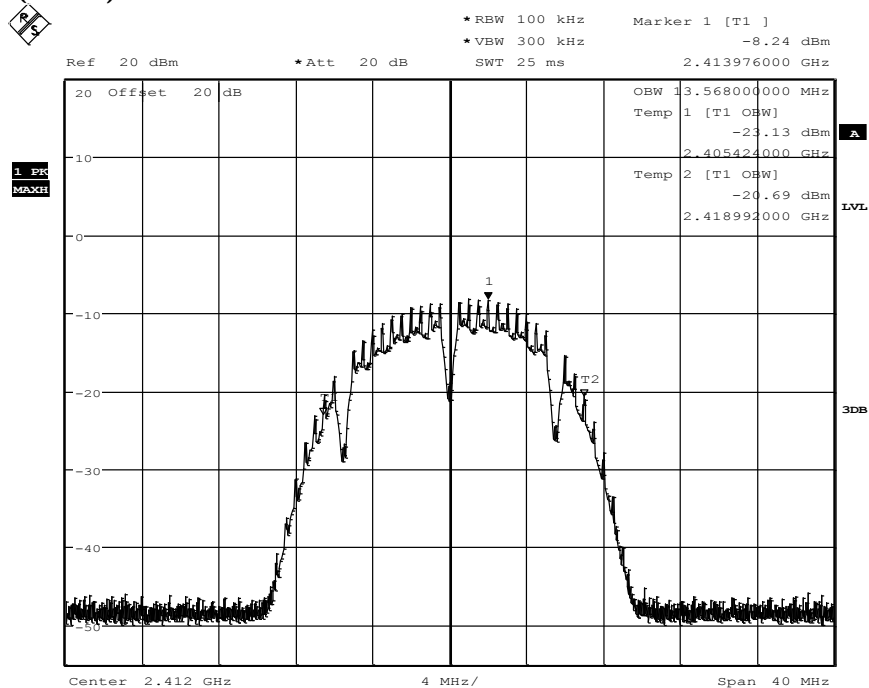


Date: 4.APR.2016 14:12:53

1.8. 99% Occupied Bandwidth

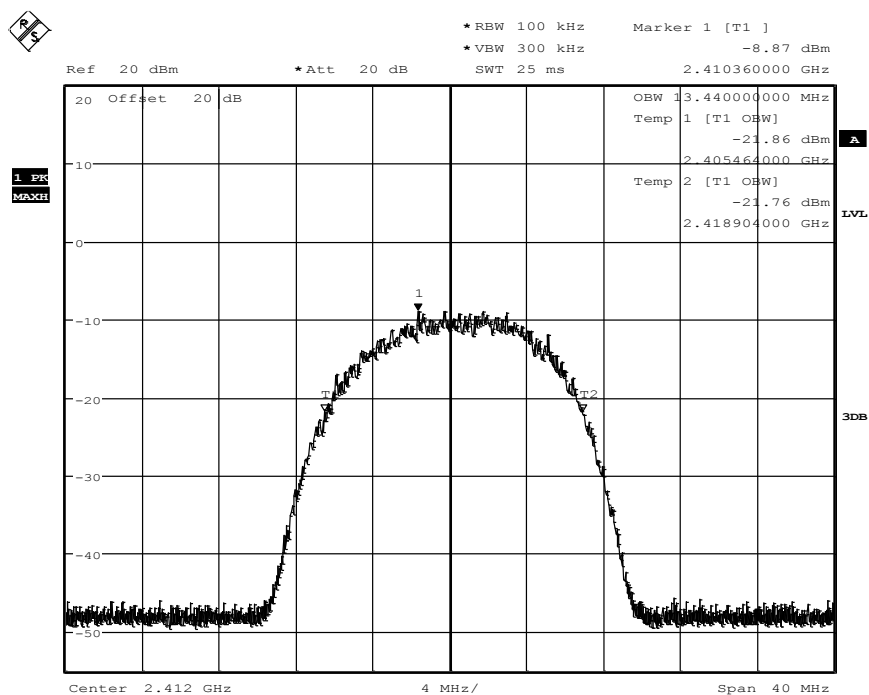
1.8.1. OBW - Bandwidth (b-Mode)

Channel 1 (1 MBit)



Date: 4.APR.2016 14:58:37

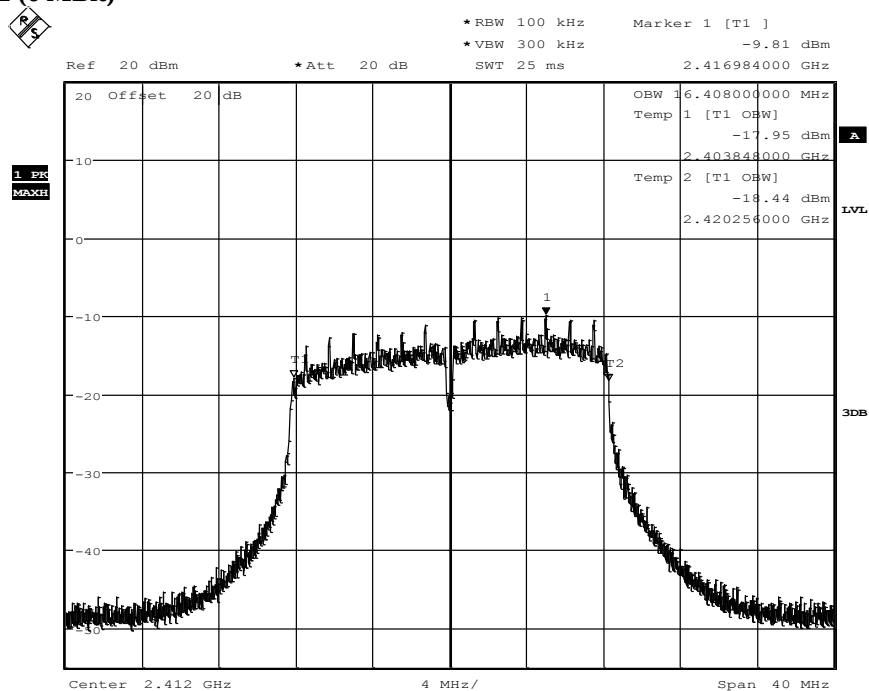
Channel 1 (11 MBit)



Date: 4.APR.2016 15:05:35

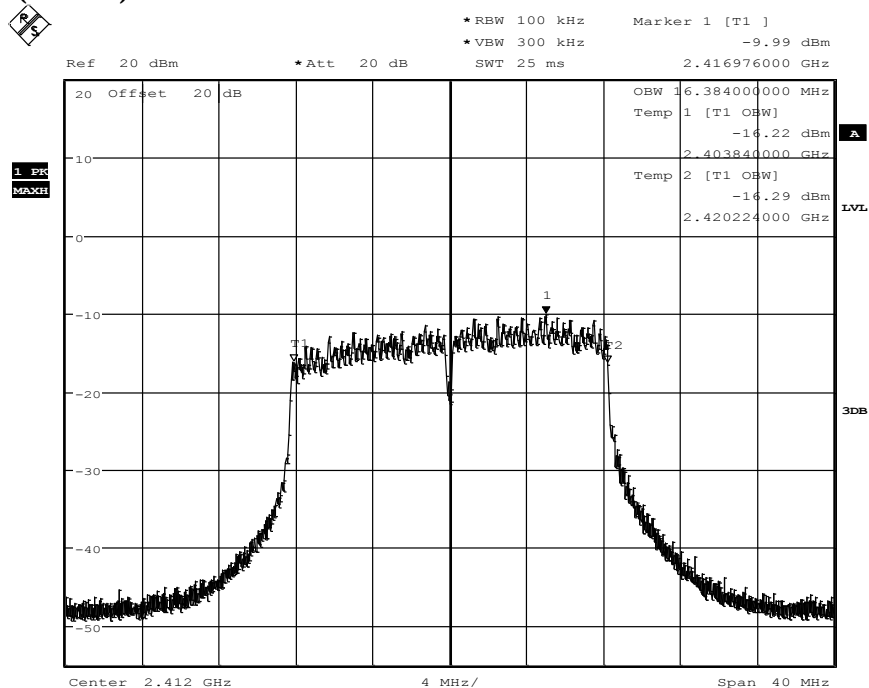
1.8.2. OBW - Bandwidth (g-Mode)

Channel 1 (6 MBit)



Date: 4.APR.2016 15:07:22

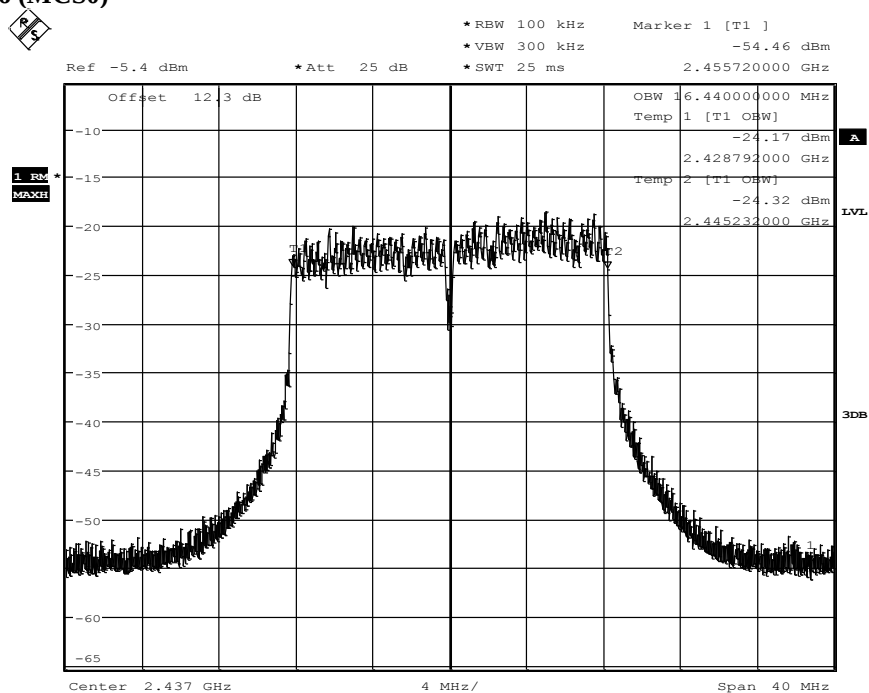
Channel 1 (54 MBit)



Date: 4.APR.2016 15:11:32

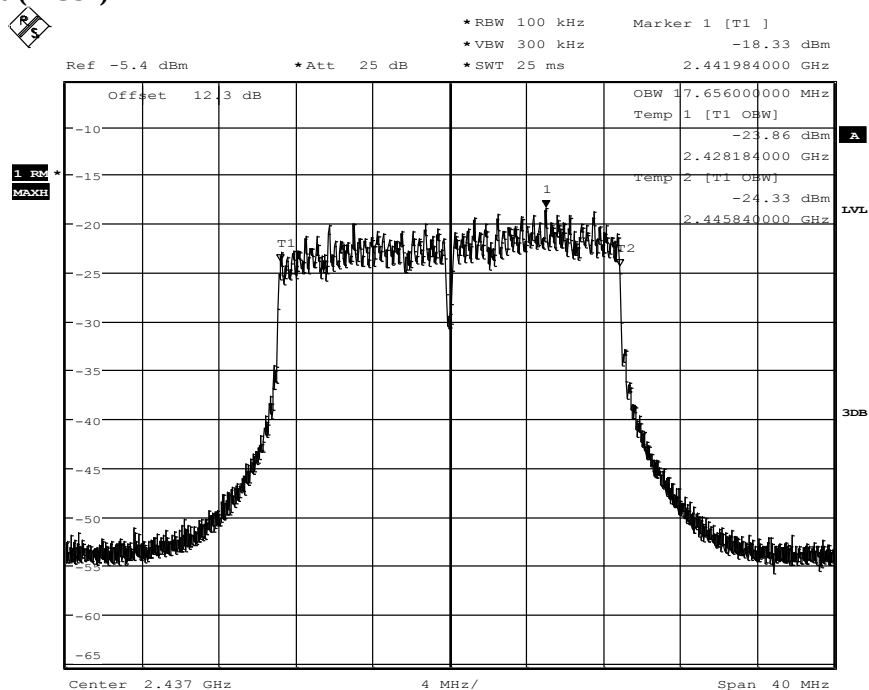
1.8.3. OBW - Bandwidth (n-Mode)

Channel 6 (MCS0)



Date: 4.APR.2016 15:20:18

Channel 6 (MCS7)

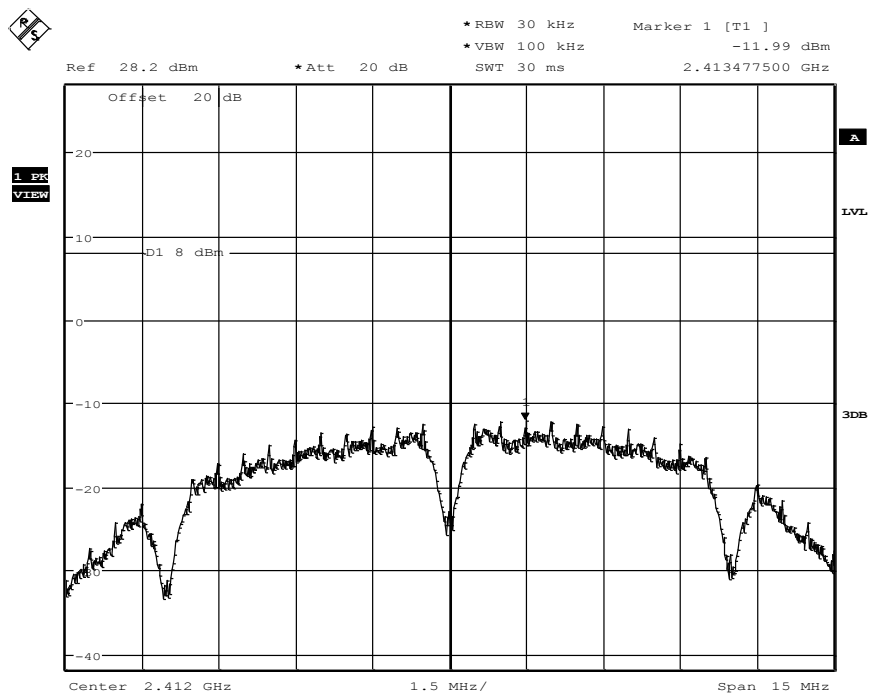


Date: 4.APR.2016 15:50:02

1.9. Power Spectral Density

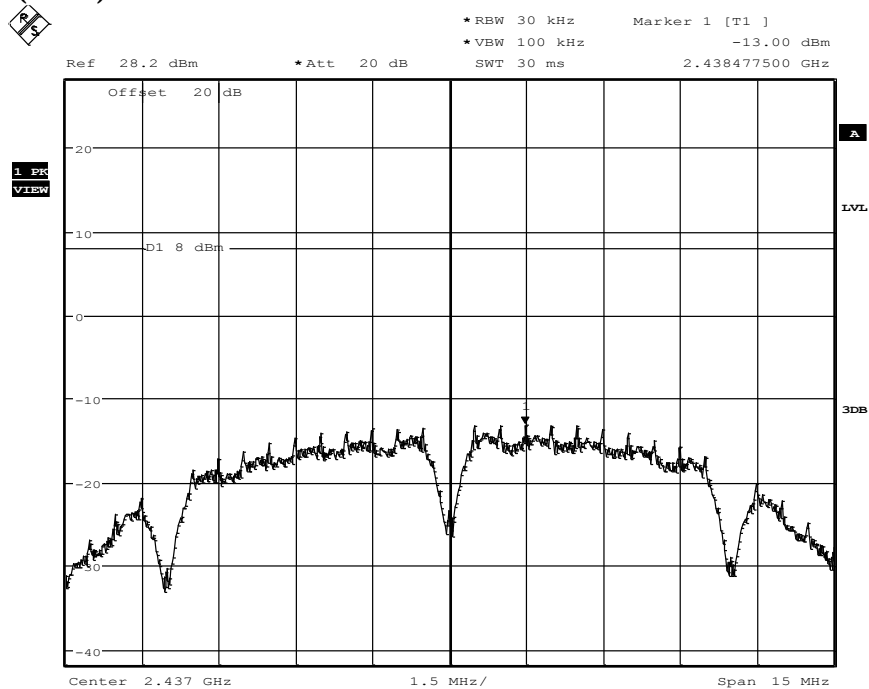
1.9.1. PSD (b-Mode)

Channel 1 (1Mbit)



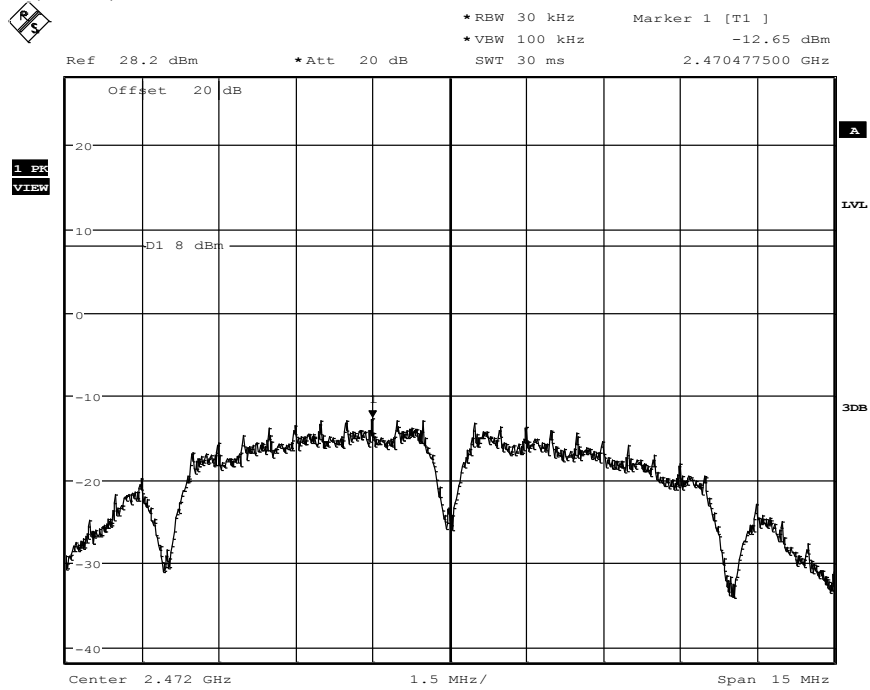
Date: 4.APR.2016 16:15:27

Channel 6 (1Mbit)



Date: 4.APR.2016 16:21:50

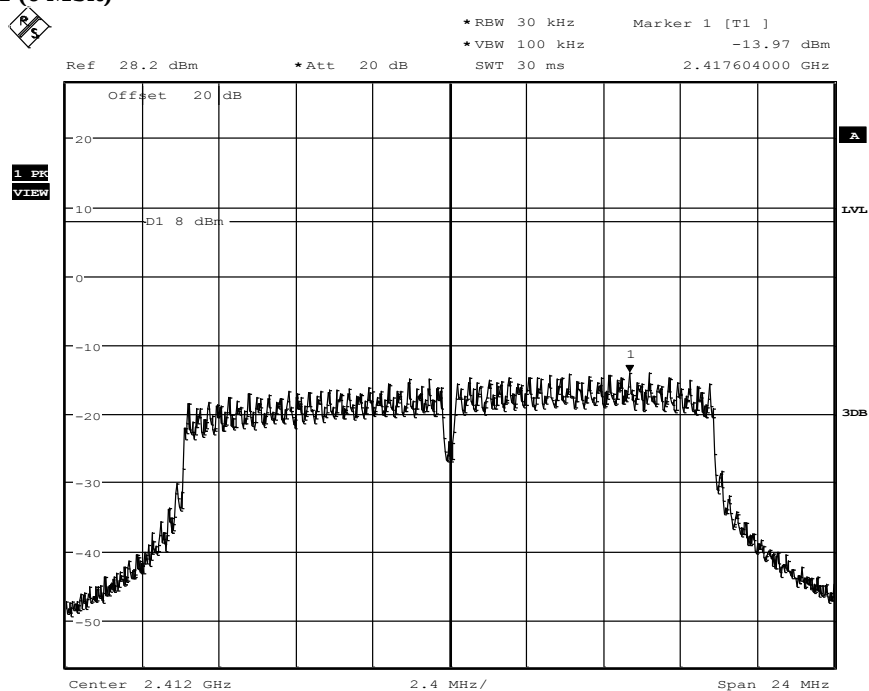
Channel 13 (1Mbit)



Date: 4.APR.2016 16:24:46

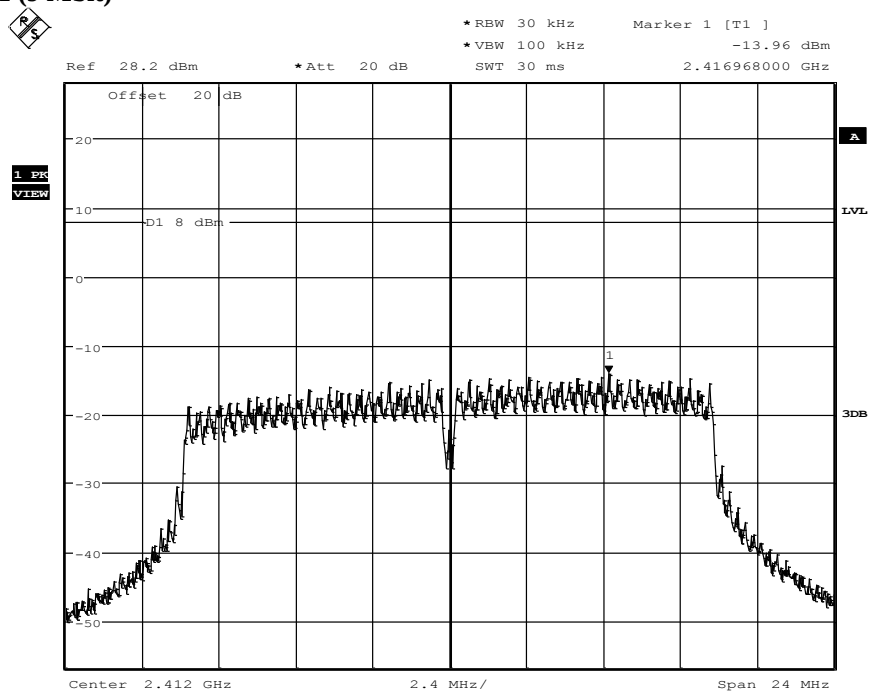
1.9.2. PSD (g-Mode)

Channel 1 (6 Mbit)



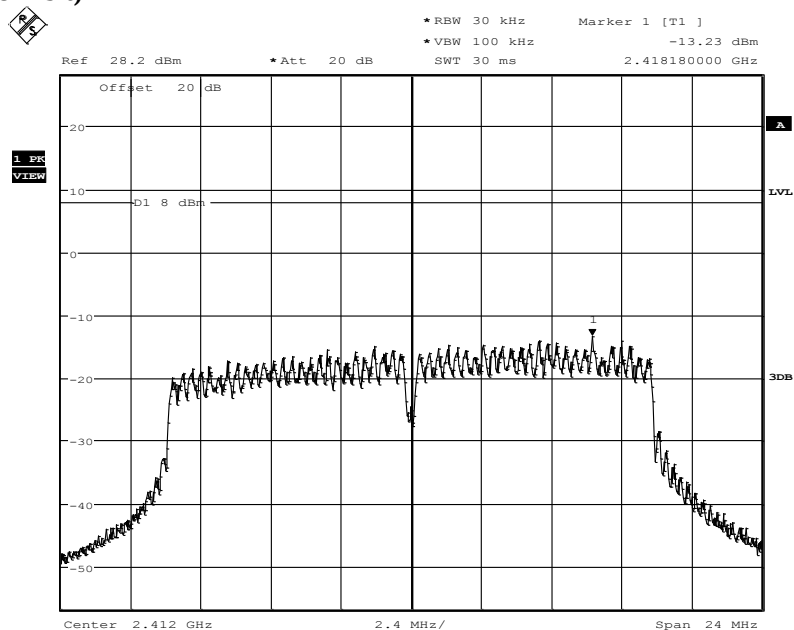
Date: 4.APR.2016 16:29:19

Channel 1 (9 Mbit)



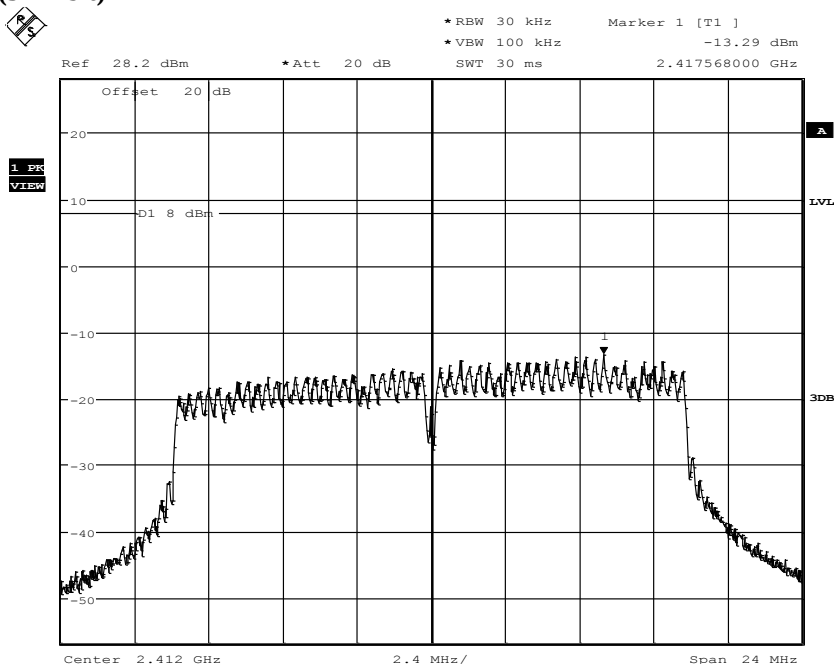
Date: 4.APR.2016 16:33:45

Channel 1 (48 Mbit)



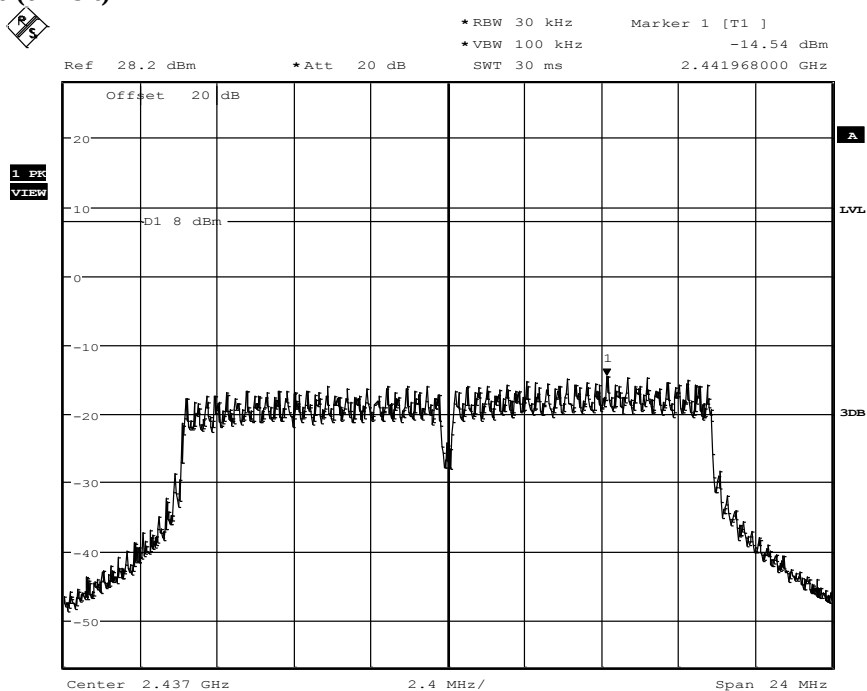
Date: 5.APR.2016 13:54:44

Channel 1 (54 Mbit)



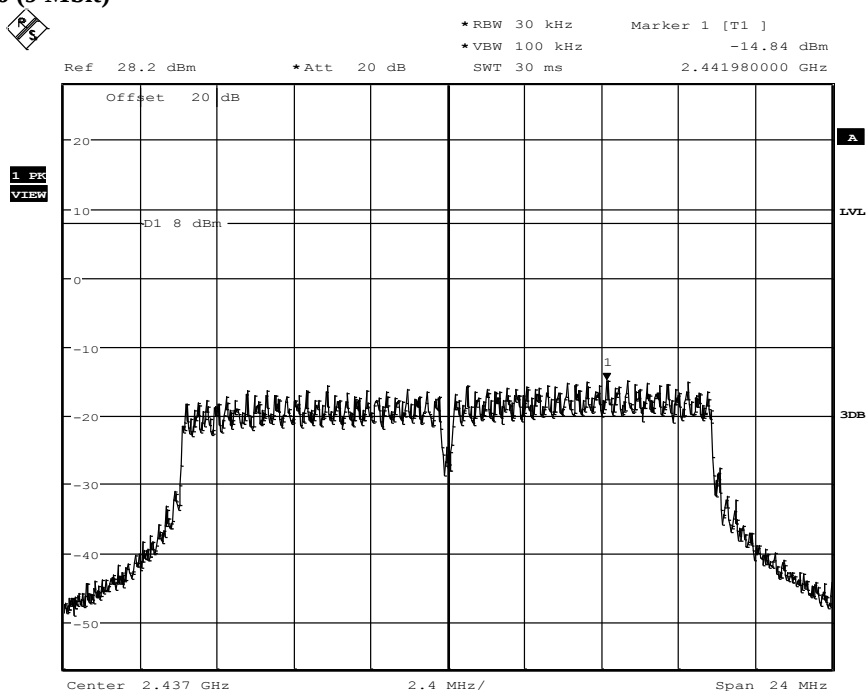
Date: 5.APR.2016 13:51:15

Channel 6 (6 Mbit)



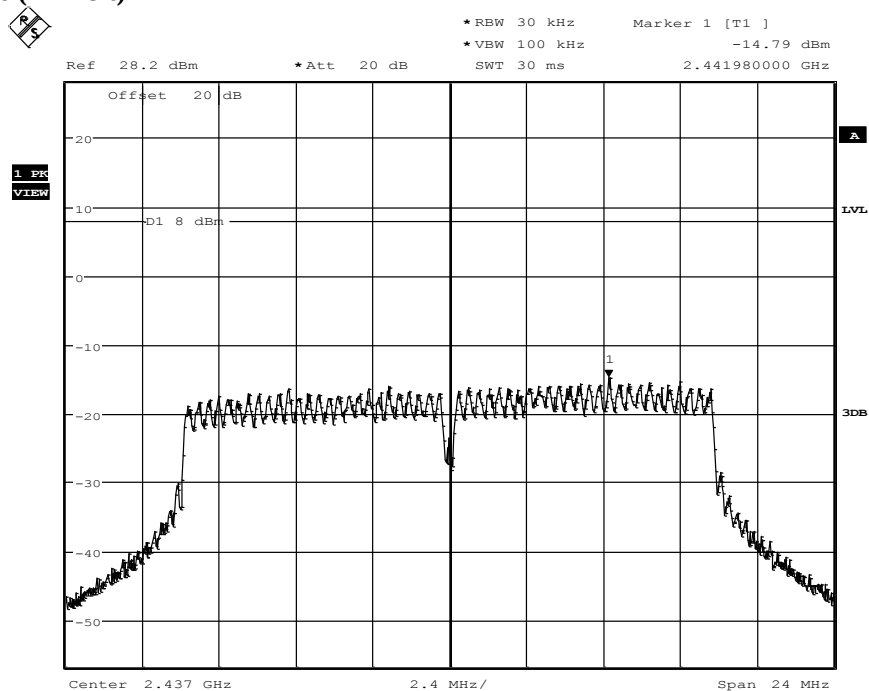
Date: 4.APR.2016 16:37:19

Channel 6 (9 Mbit)



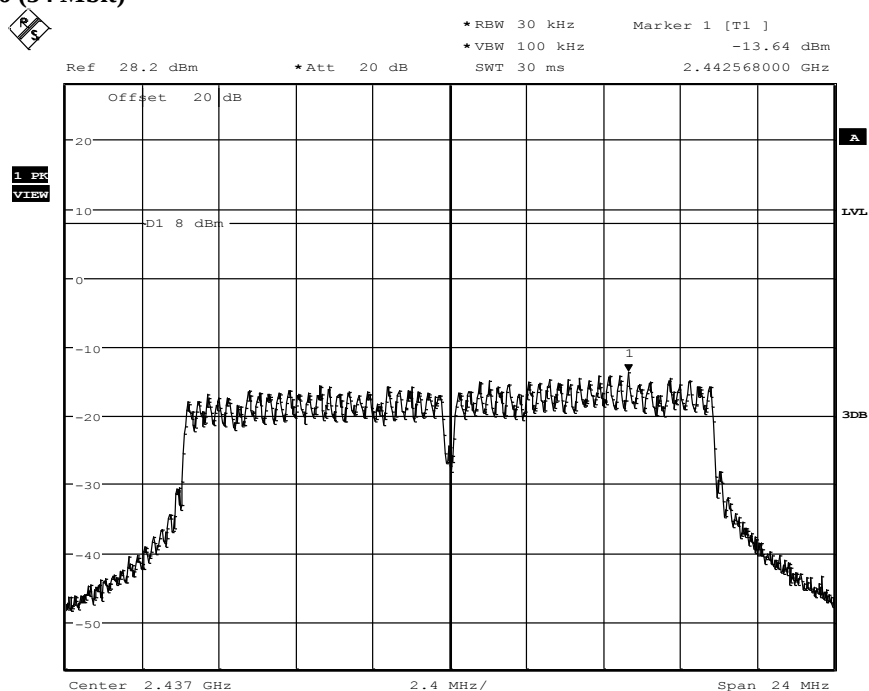
Date: 4.APR.2016 16:42:27

Channel 6 (12 Mbit)



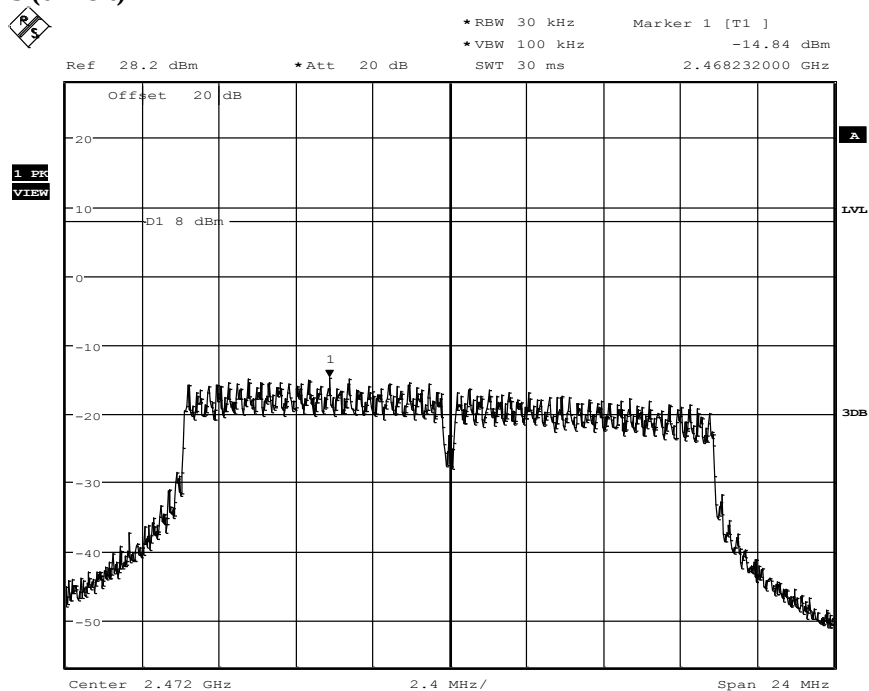
Date: 4.APR.2016 16:40:30

Channel 6 (54 Mbit)



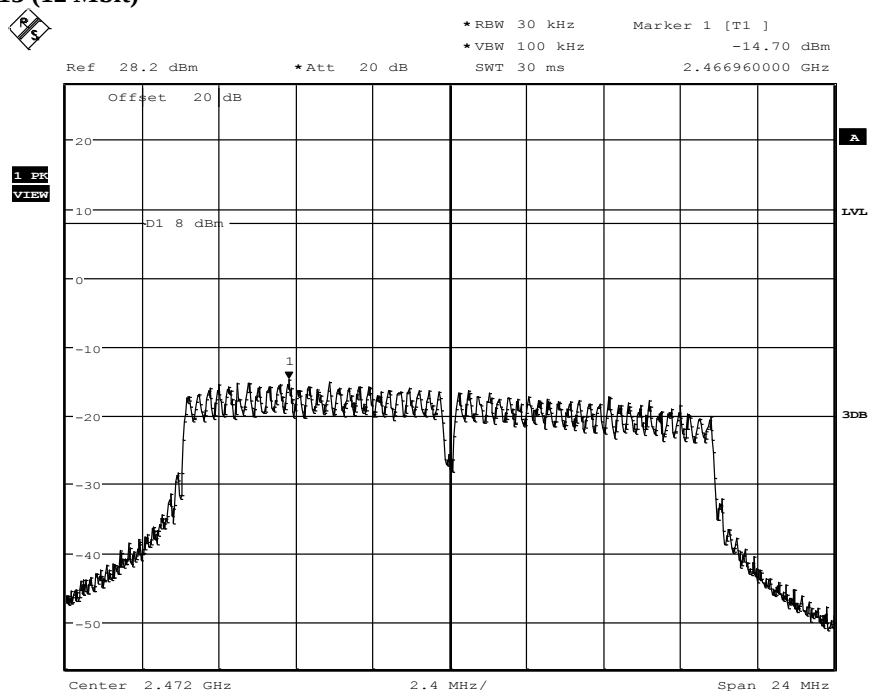
Date: 5.APR.2016 13:47:46

Channel 13 (6 Mbit)



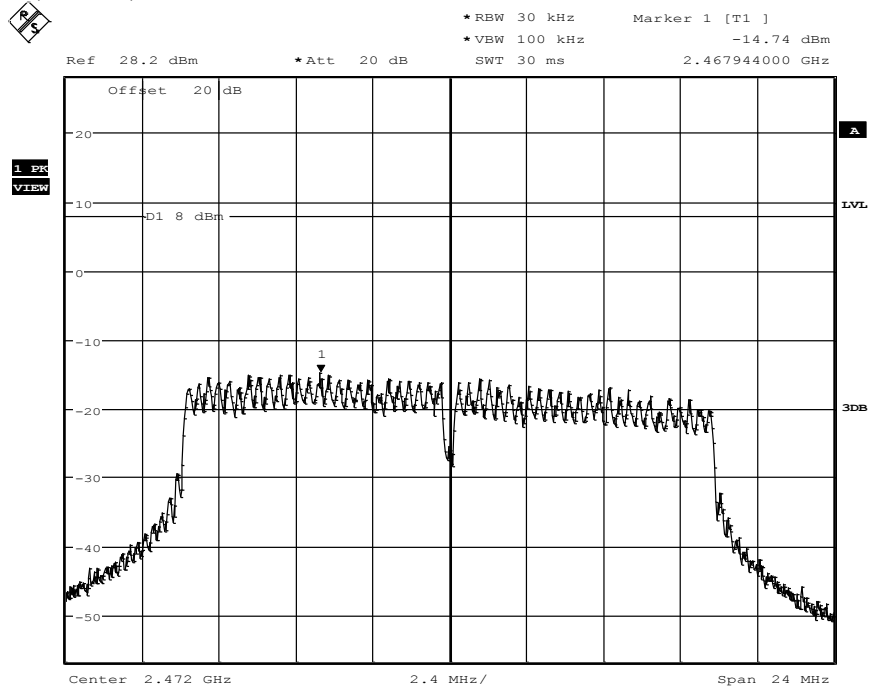
Date: 4.APR.2016 16:47:44

Channel 13 (12 Mbit)



Date: 4.APR.2016 16:45:25

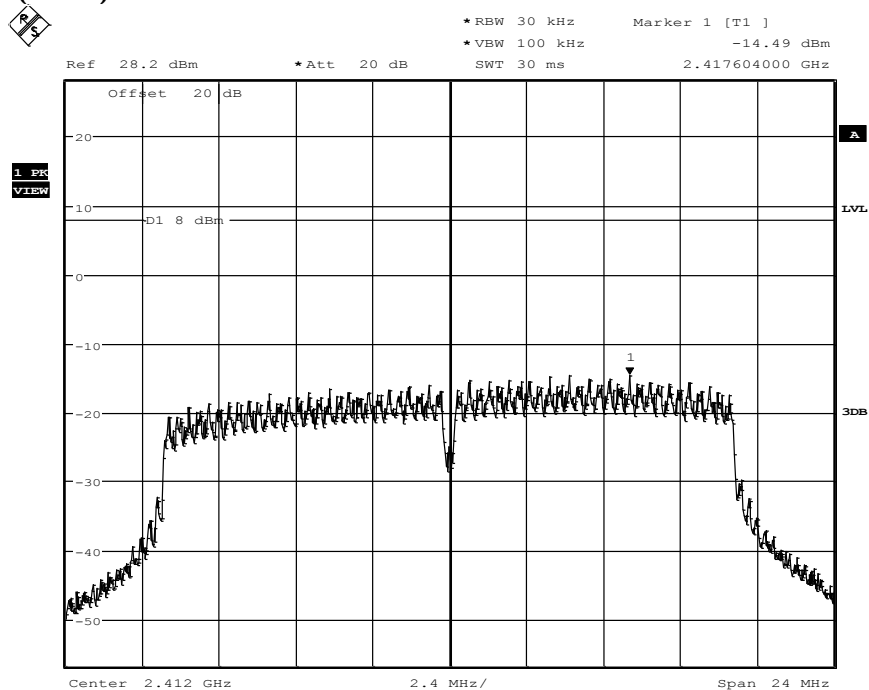
Channel 13 (54 Mbit)



Date: 5.APR.2016 13:44:18

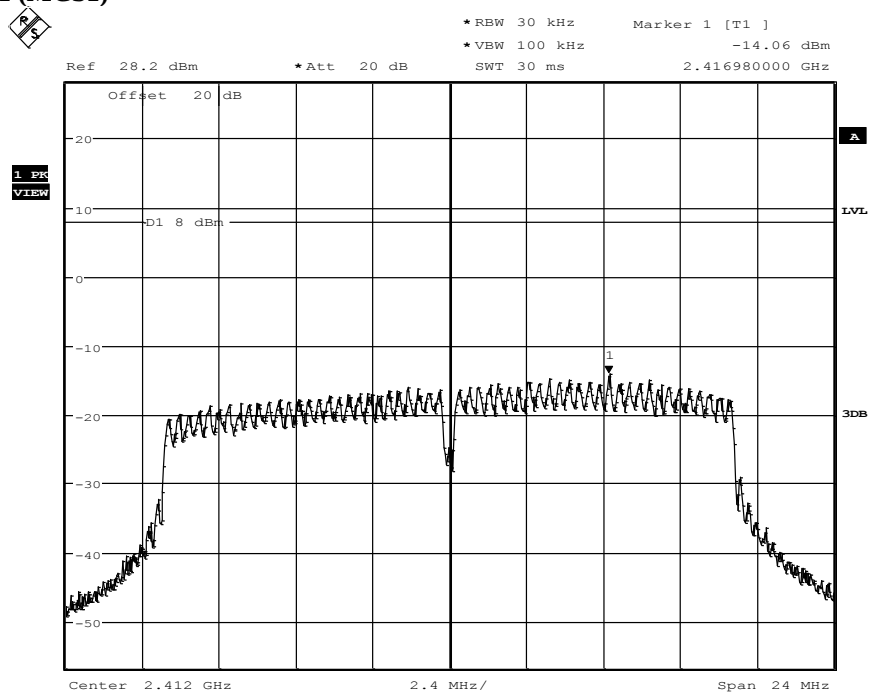
1.9.3. PSD (n-Mode)

Channel 1 (MCS0)



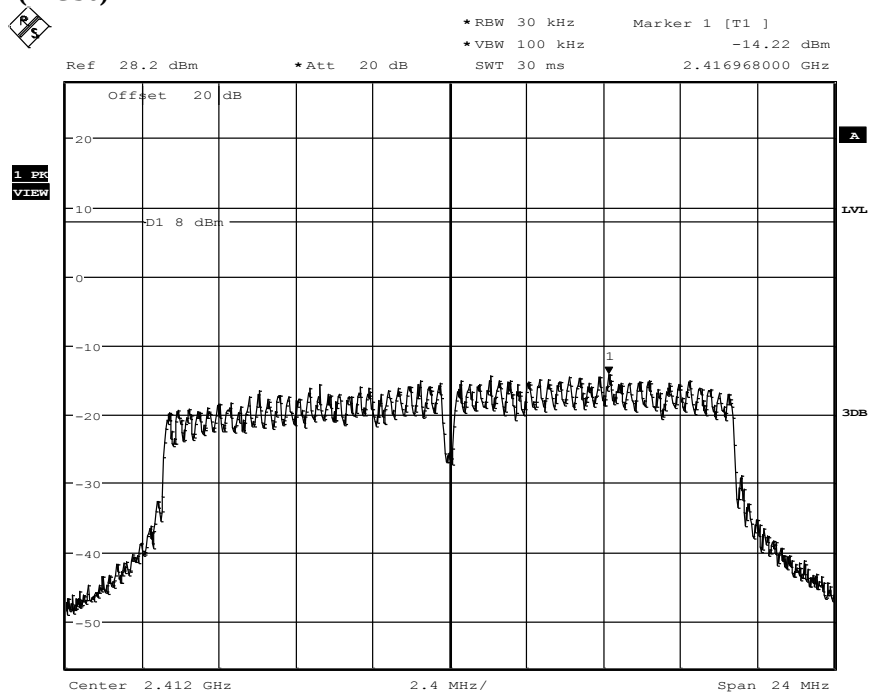
Date: 4.APR.2016 17:23:29

Channel 1 (MCS1)



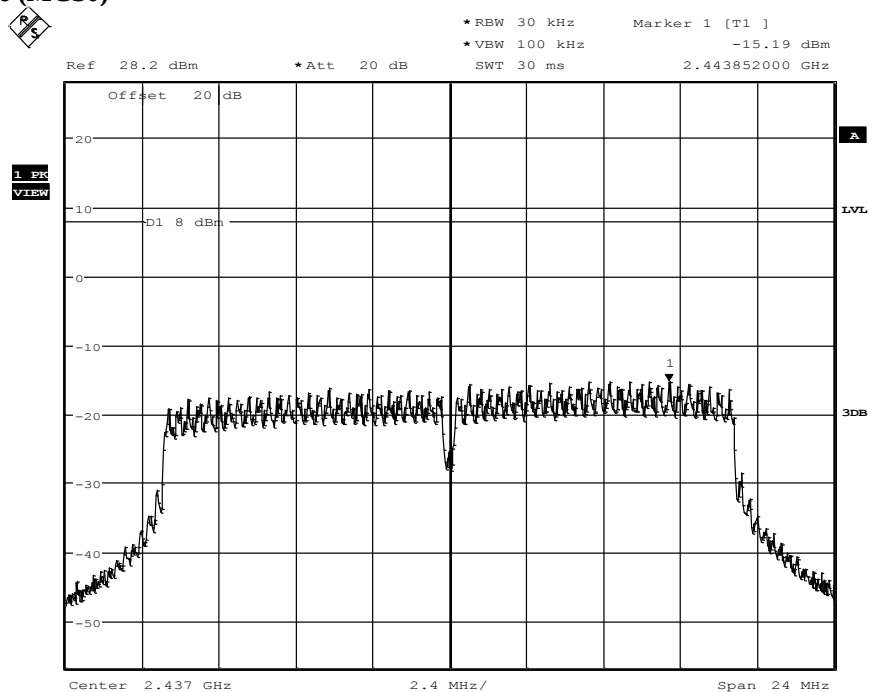
Date: 4.APR.2016 17:27:13

Channel 1 (MCS6)



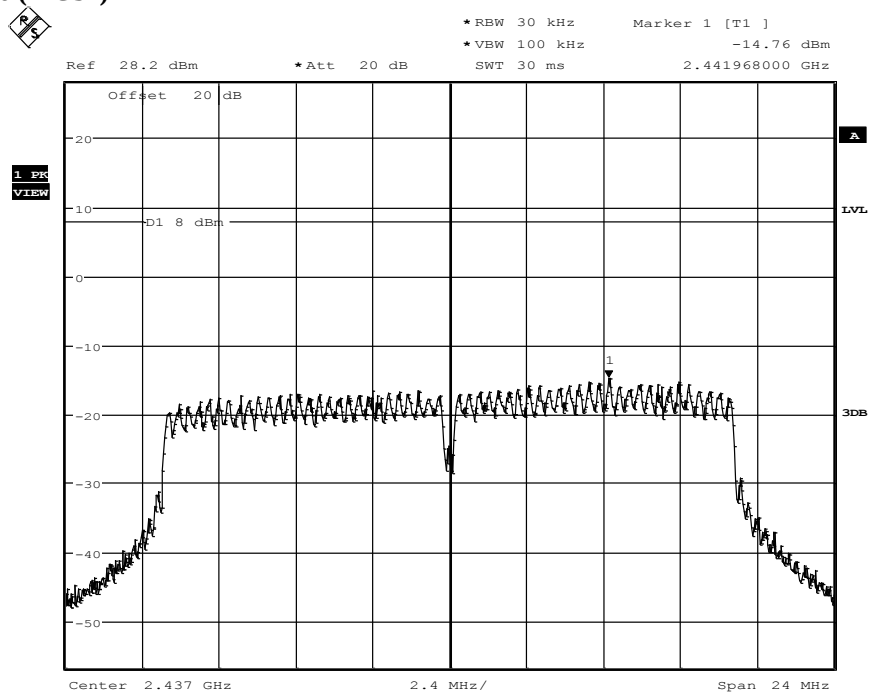
Date: 5.APR.2016 13:59:17

Channel 6 (MCS0)



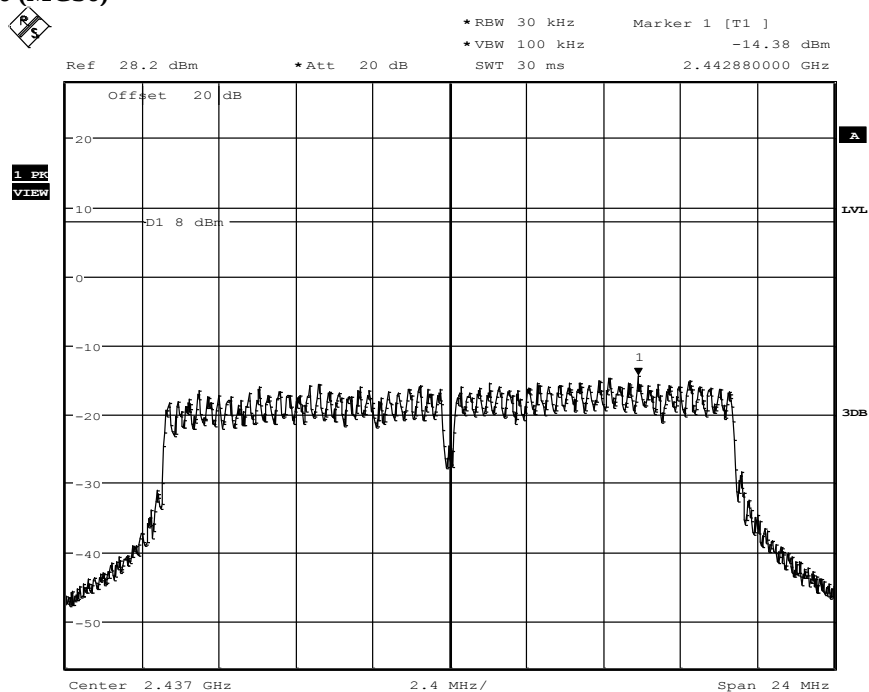
Date: 4.APR.2016 17:09:36

Channel 6 (MCS1)



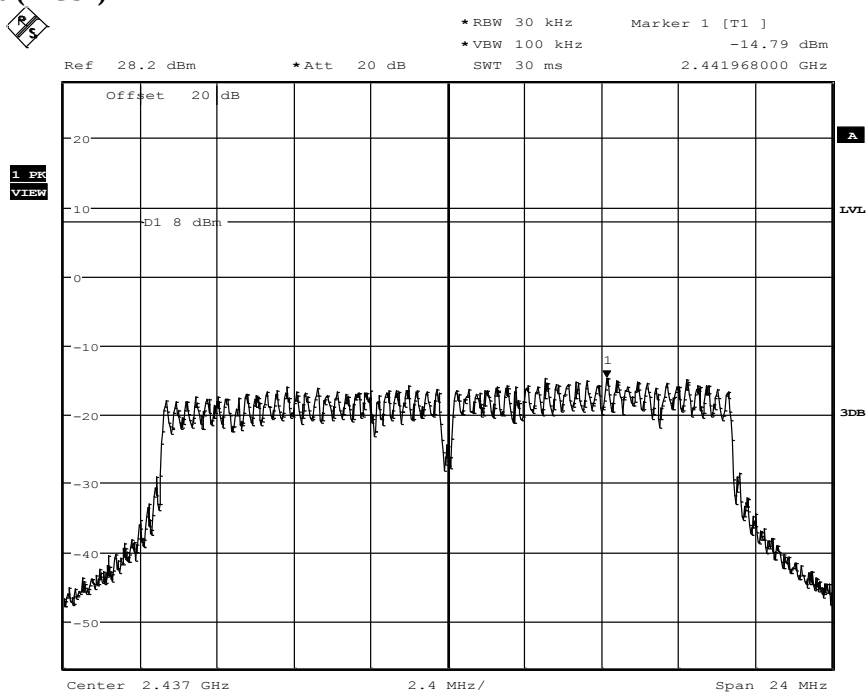
Date: 4.APR.2016 17:04:28

Channel 6 (MCS6)



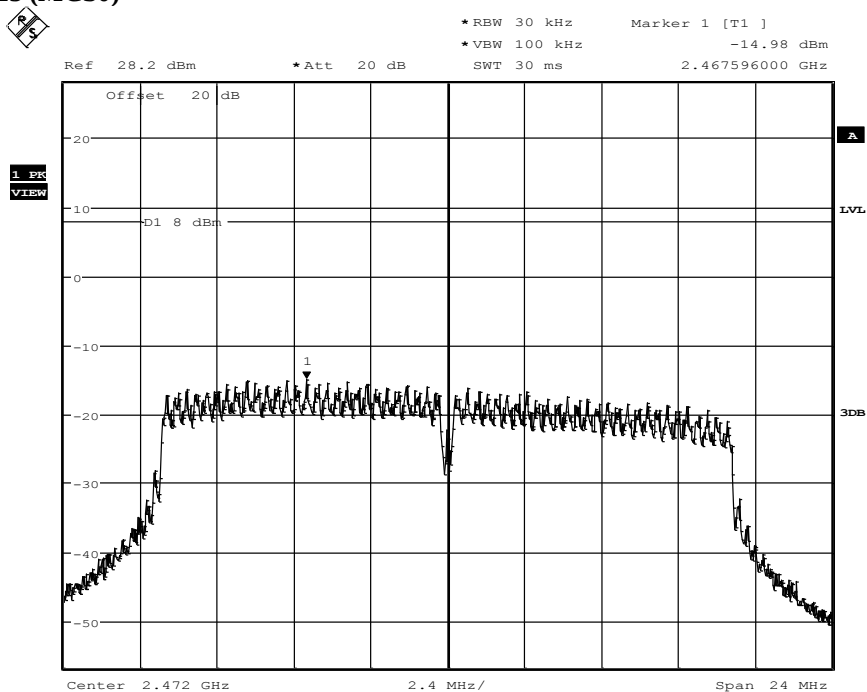
Date: 5.APR.2016 14:02:56

Channel 6 (MCS7)



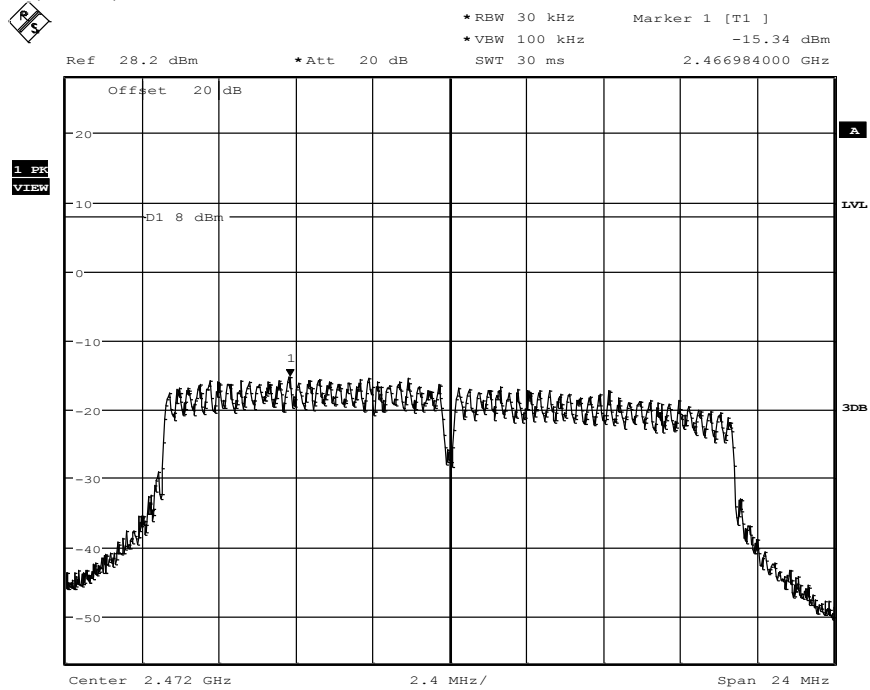
Date: 5.APR.2016 14:07:16

Channel 13 (MCS0)



Date: 4.APR.2016 16:59:13

Channel 13 (MCS1)

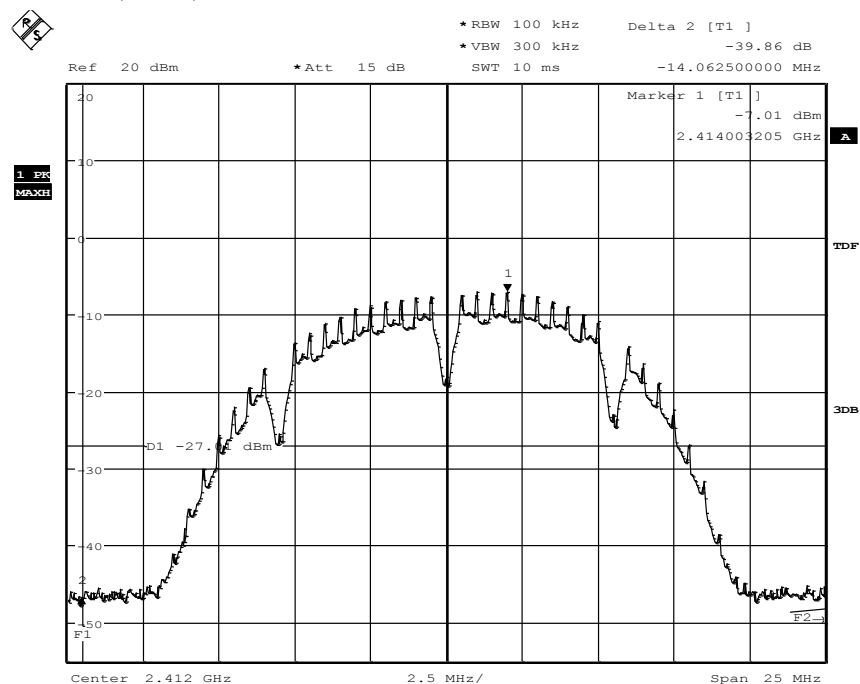


Date: 4.APR.2016 16:56:17

1.10. 20dBc Emissions

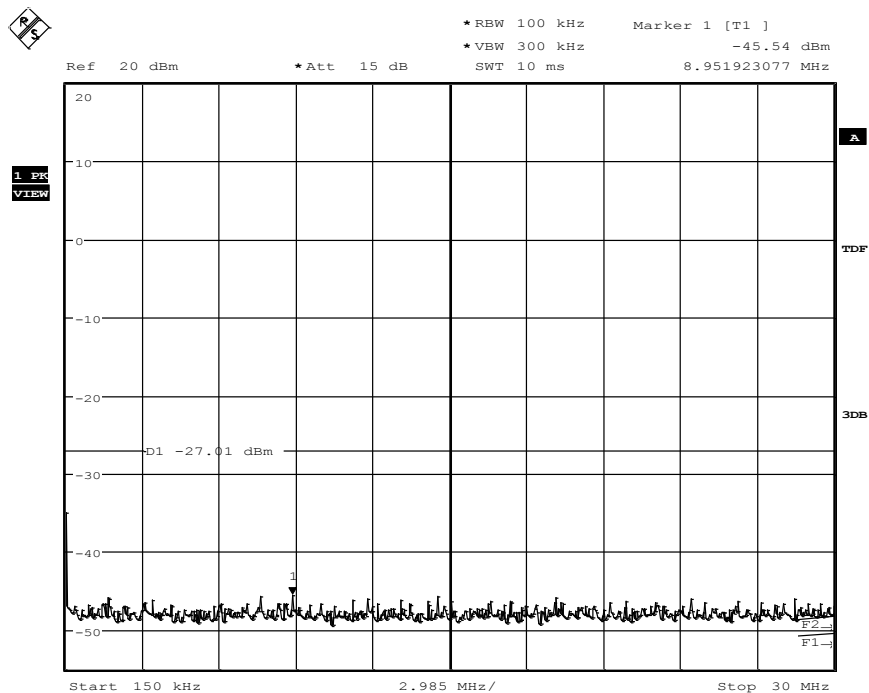
1.10.1. b-Mode Channel 1

1.10.1.1. Channel 1 (1Mbit) Reference



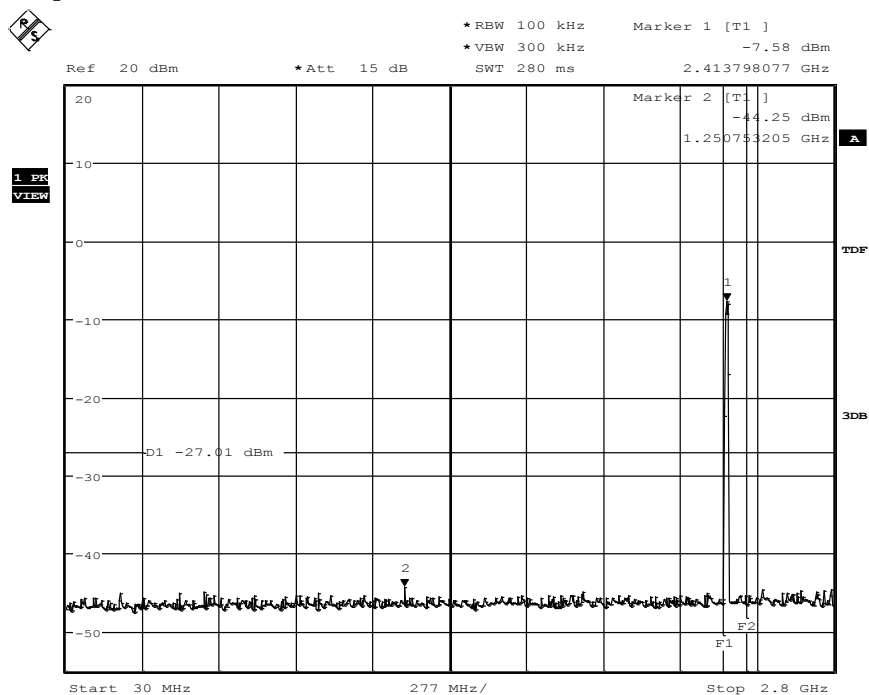
Date: 7.APR.2016 16:29:12

1.10.1.2. Sweep 1: 150kHz to 30MHz



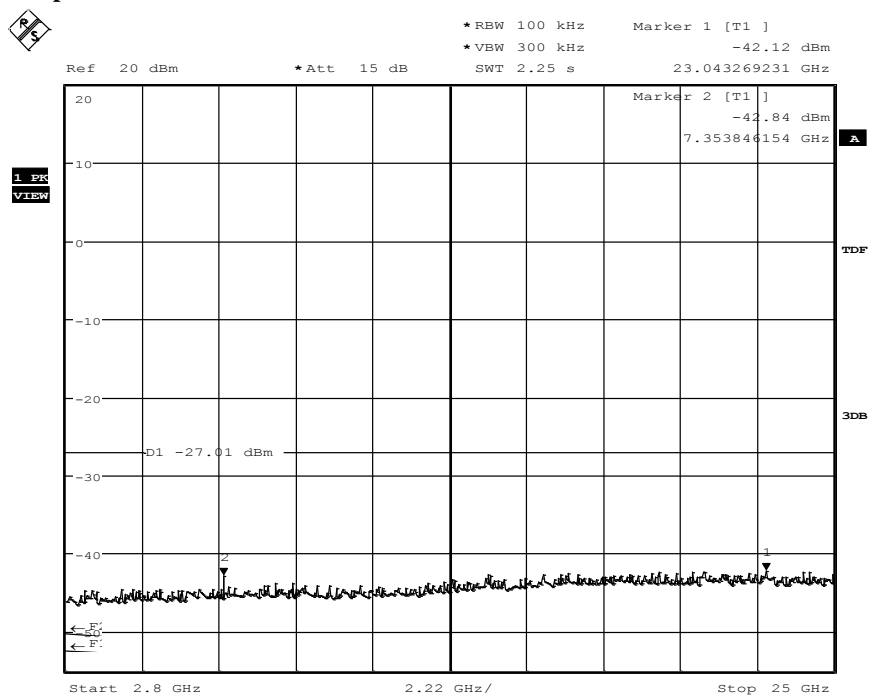
Date: 7.APR.2016 16:31:32

1.10.1.3. Sweep 2: 30MHz to 2.8GHz



Date: 7.APR.2016 16:34:58

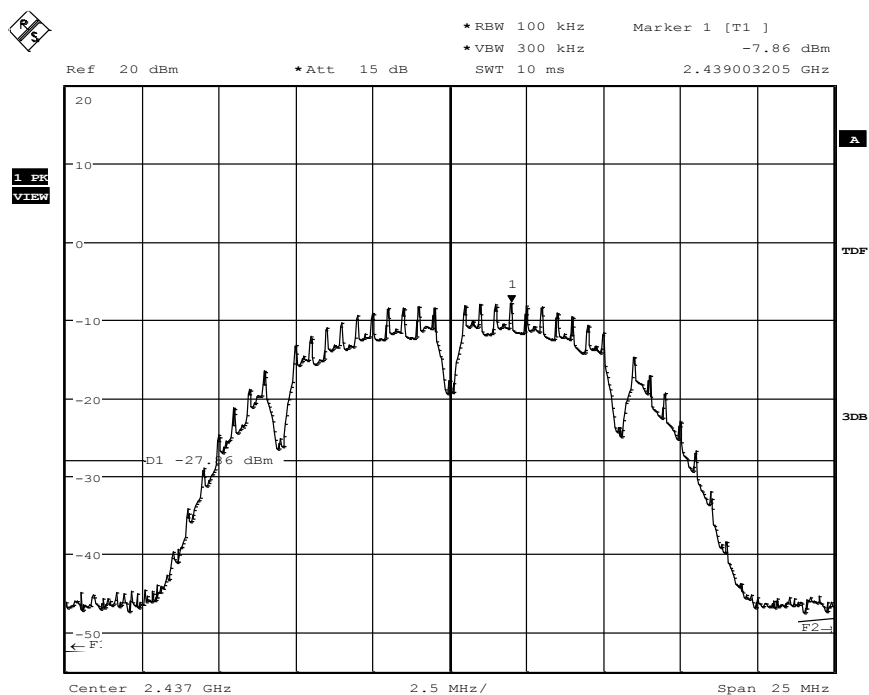
1.10.1.4. Sweep 3: 2.8GHz to 25GHz



Date: 7.APR.2016 16:39:02

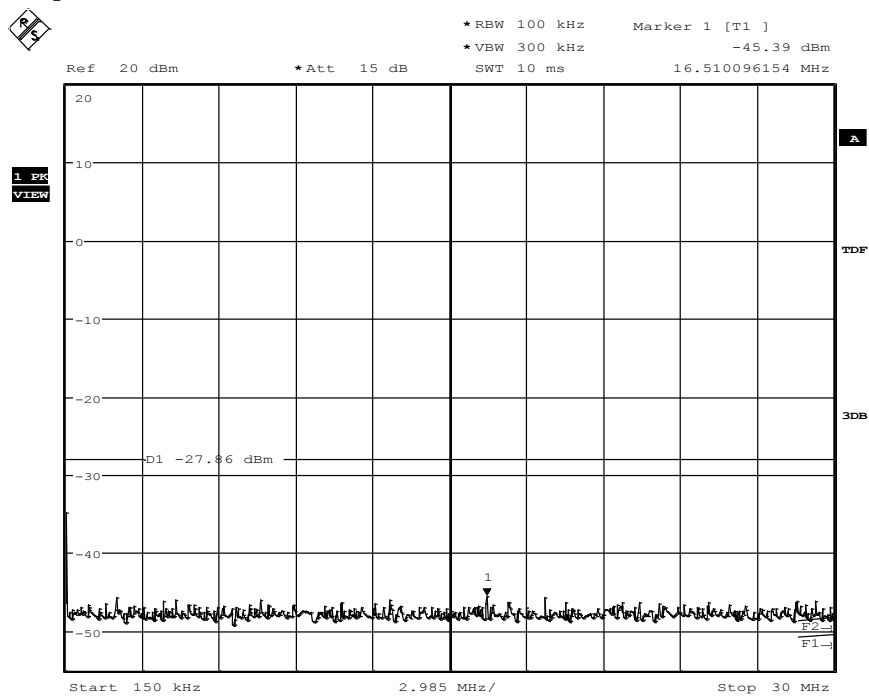
1.10.2. b-Channel 6 (1Mbit)

1.10.2.1. Channel 6 Reference



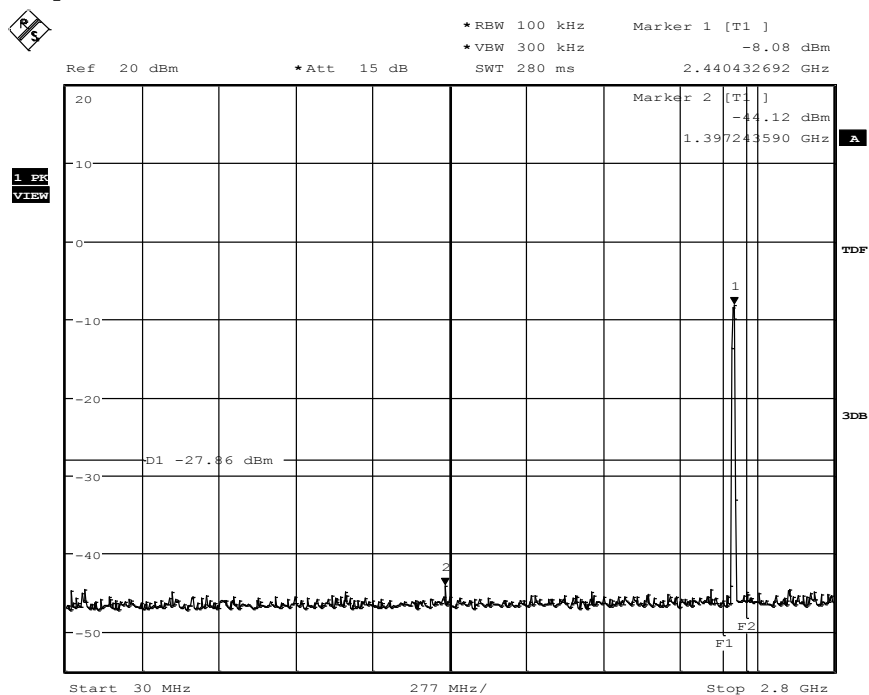
Date: 7.APR.2016 16:42:21

1.10.2.2. Sweep 1: 150kHz to 30MHz



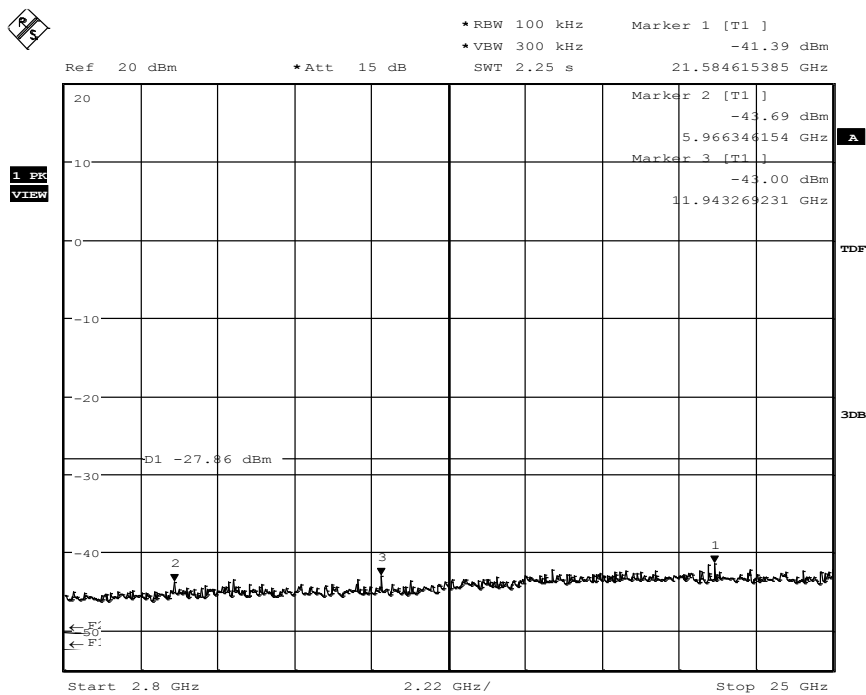
Date: 7.APR.2016 16:45:08

1.10.2.3. Sweep 2: 30MHz to 2.8GHz



Date: 7.APR.2016 16:48:28

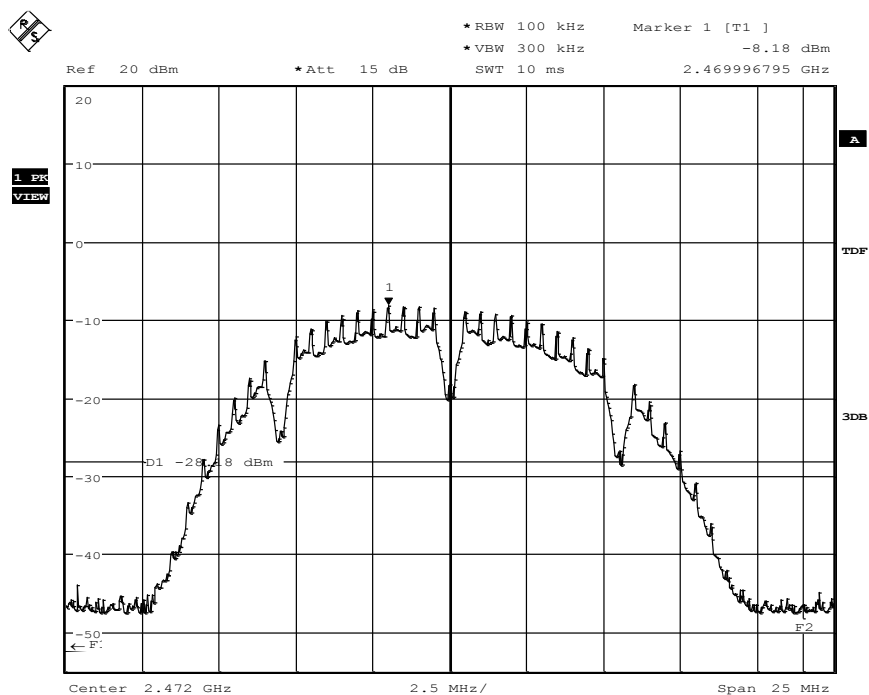
1.10.2.4. Sweep 3: 2.8GHz to 25GHz



Date: 7.APR.2016 16:53:35

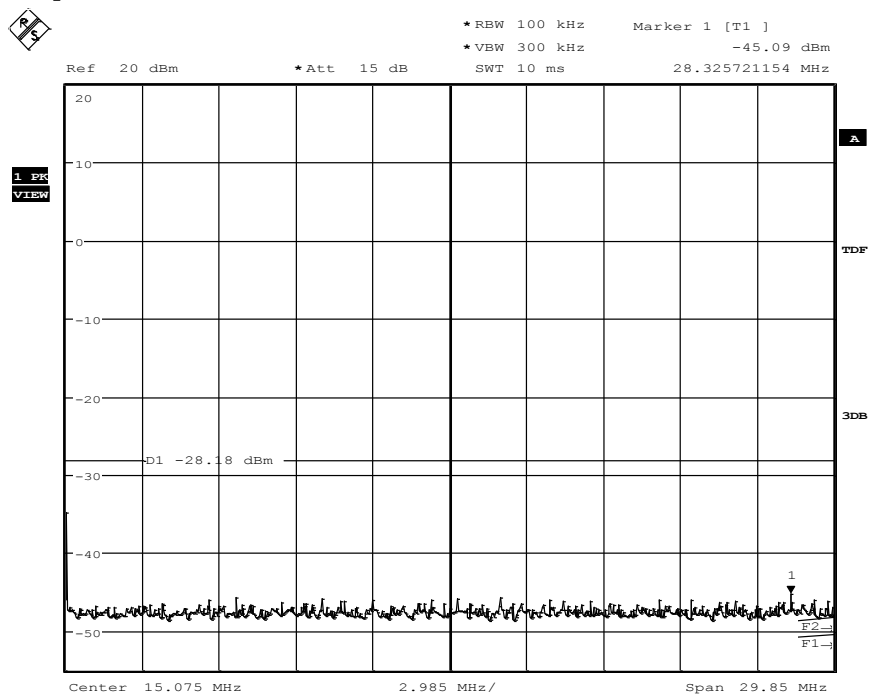
1.10.3. b-Mode Channel 13(1Mbit)

1.10.3.1. Channel 13Reference



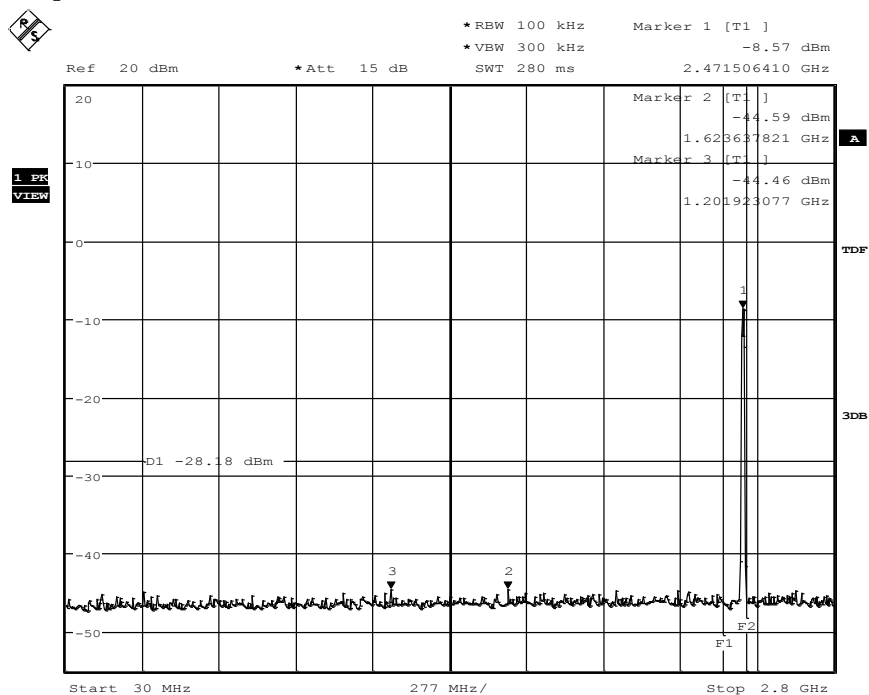
Date: 7.APR.2016 16:56:34

1.10.3.2. Sweep 1: 150kHz to 30MHz



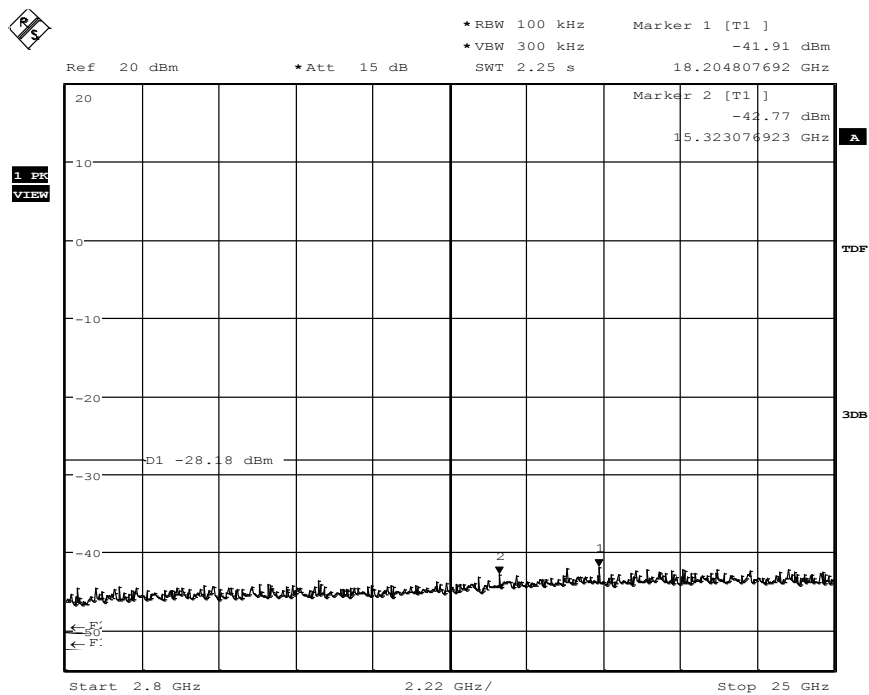
Date: 7.APR.2016 17:01:05

1.10.3.3. Sweep 2: 30MHz to 2.8GHz



Date: 7.APR.2016 17:04:39

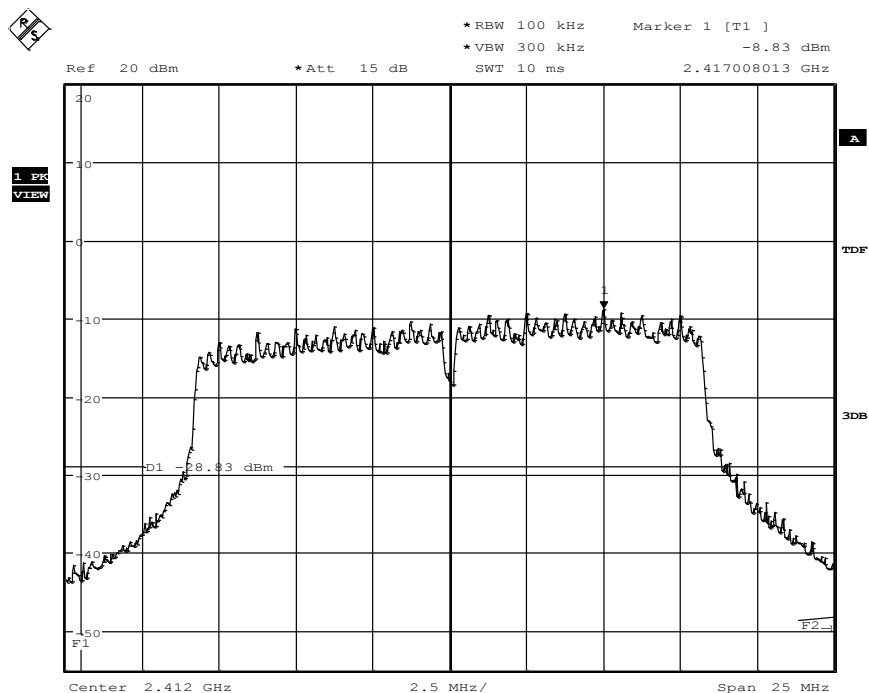
1.10.3.4. Sweep 3: 2.8GHz to 25GHz



Date: 7.APR.2016 17:08:18

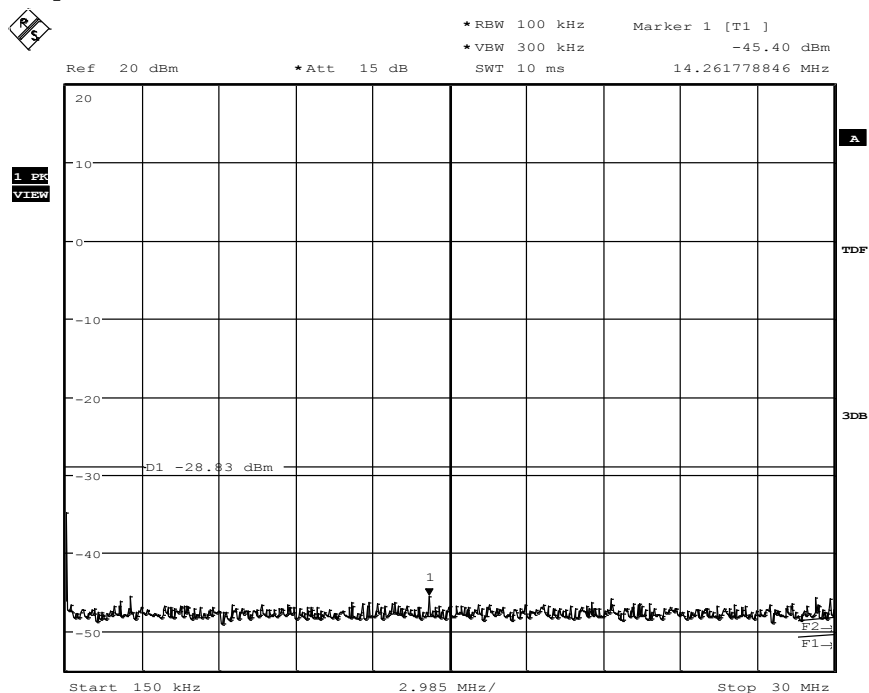
1.10.4. g-Mode Channel 1 (54Mbit)

1.10.4.1. Channel 1 Reference



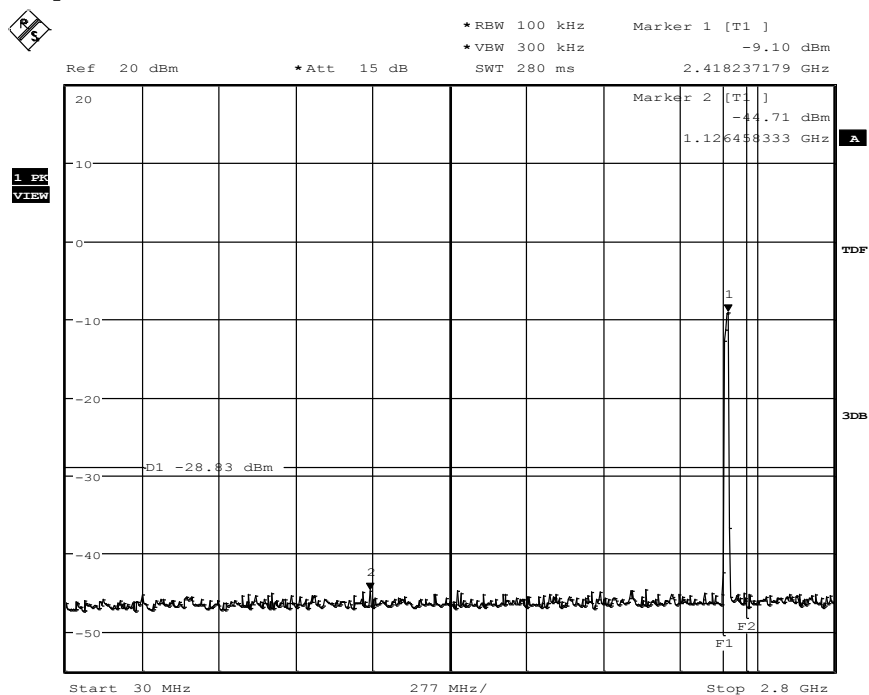
Date: 7.APR.2016 17:46:37

1.10.4.2. Sweep 1: 150kHz to 30MHz



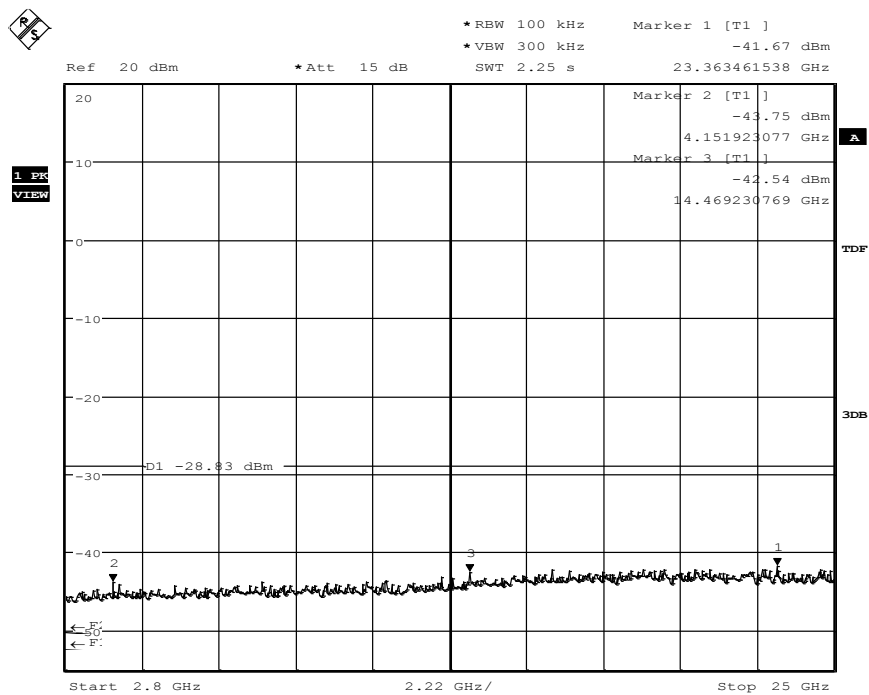
Date: 7.APR.2016 17:50:06

1.10.4.3. Sweep 2: 30MHz to 2.8GHz



Date: 7.APR.2016 17:53:29

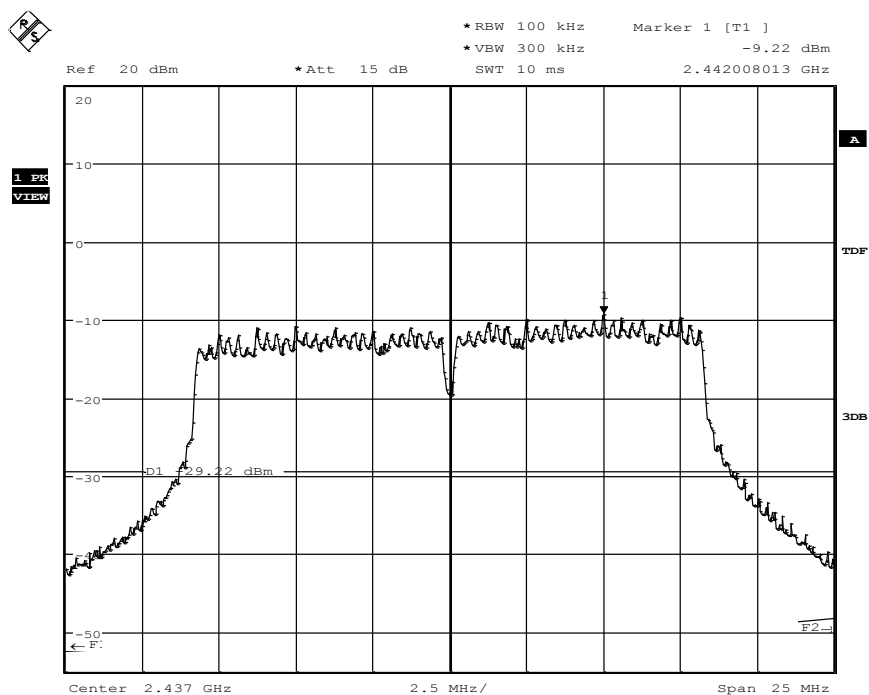
1.10.4.4. Sweep 3: 2.8GHz to 25GHz



Date: 7.APR.2016 18:00:23

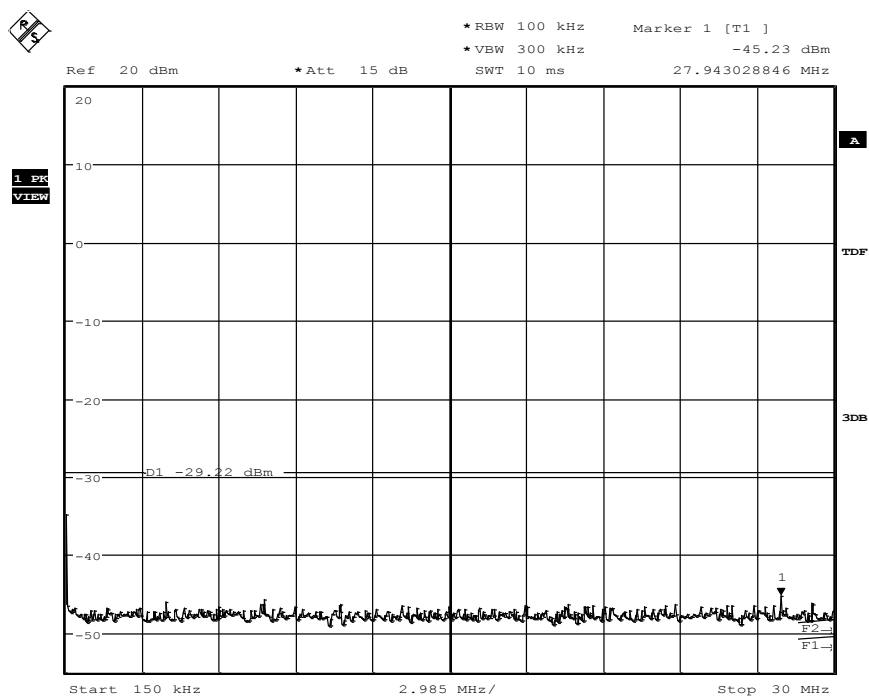
1.10.5. g-Mode Channel 6

1.10.5.1. Channel 6 Reference



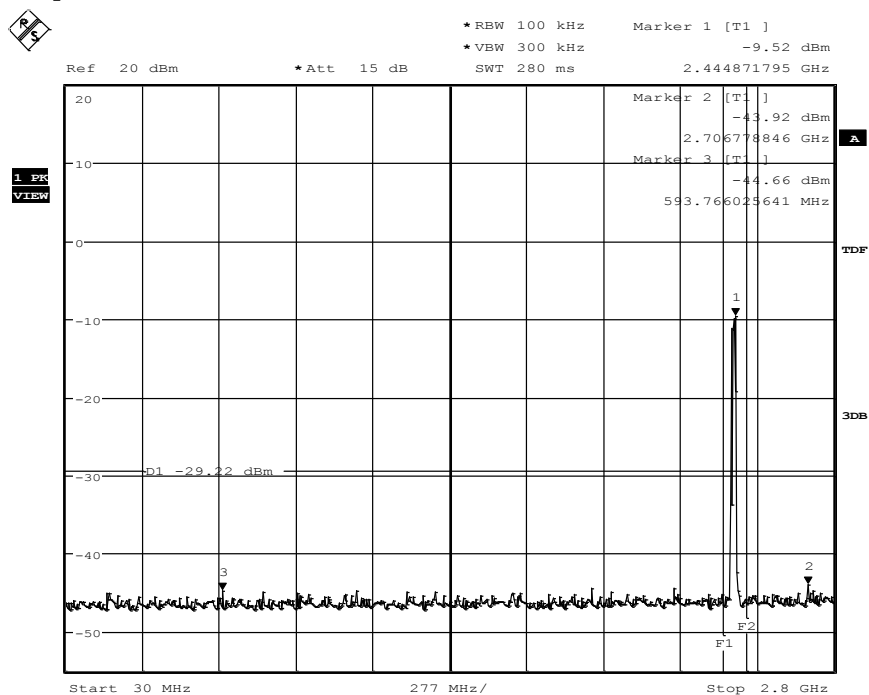
Date: 7.APR.2016 17:33:55

1.10.5.2. Sweep 1: 150kHz to 30MHz



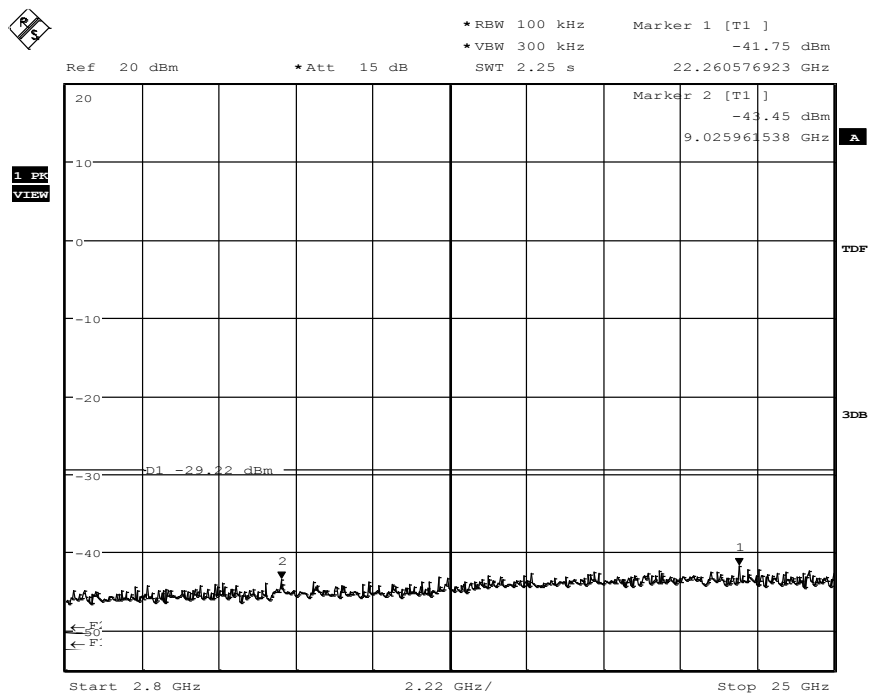
Date: 7.APR.2016 17:37:19

1.10.5.3. Sweep 2: 30MHz to 2.8GHz



Date: 7.APR.2016 17:41:09

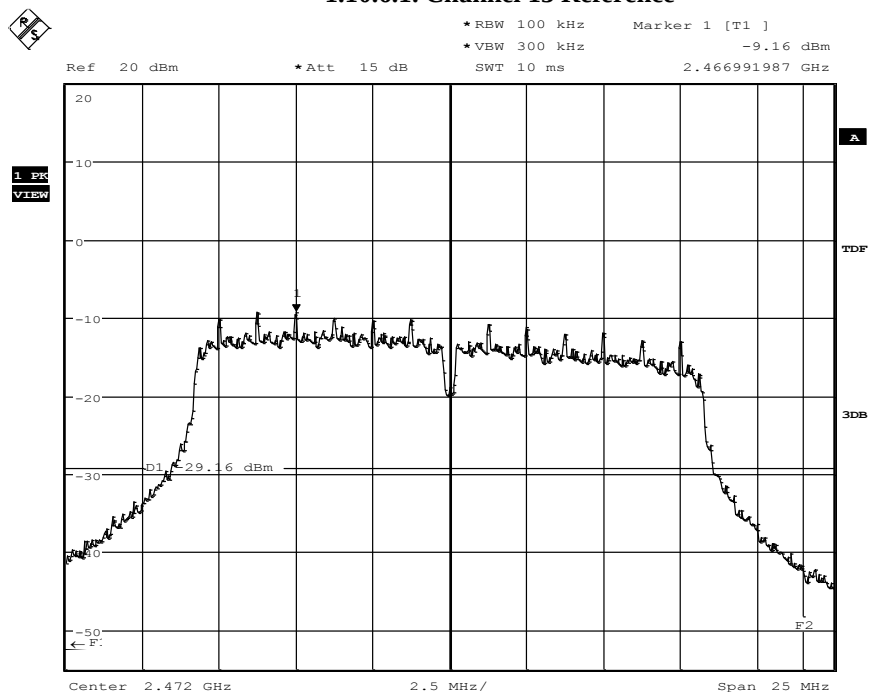
1.10.5.4. Sweep 3: 2.8GHz to 25GHz



Date: 7.APR.2016 17:44:07

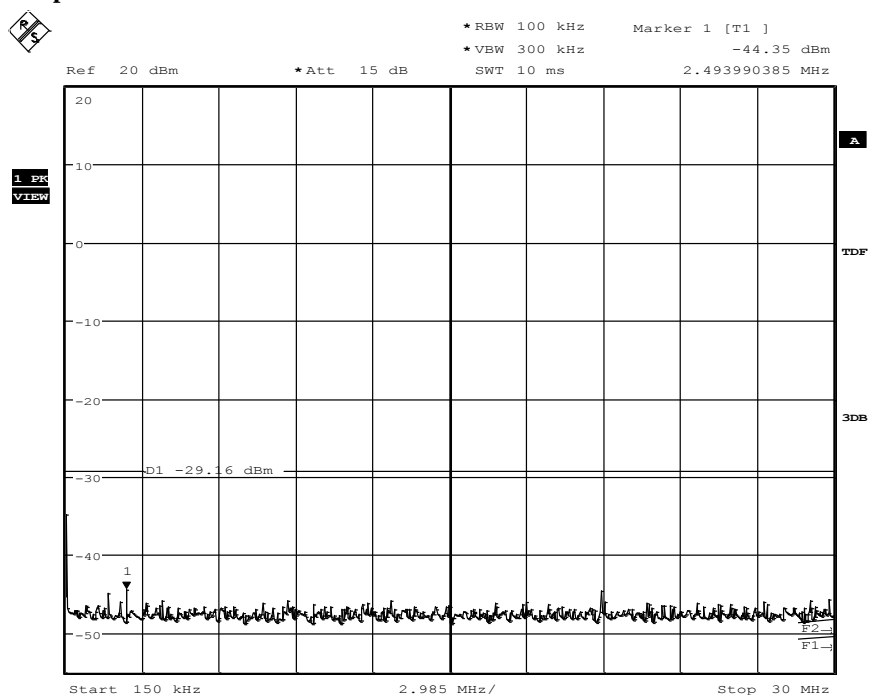
1.10.6. g-Mode Channel 13 (6 Mbit)

1.10.6.1. Channel 13 Reference



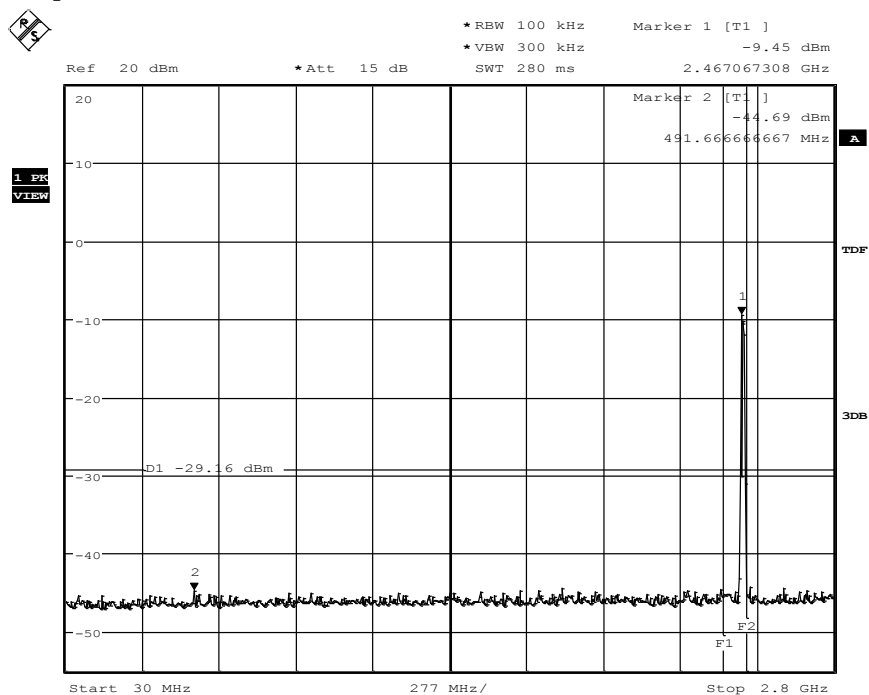
Date: 7.APR.2016 17:14:41

1.10.6.2. Sweep 1: 150kHz to 30MHz



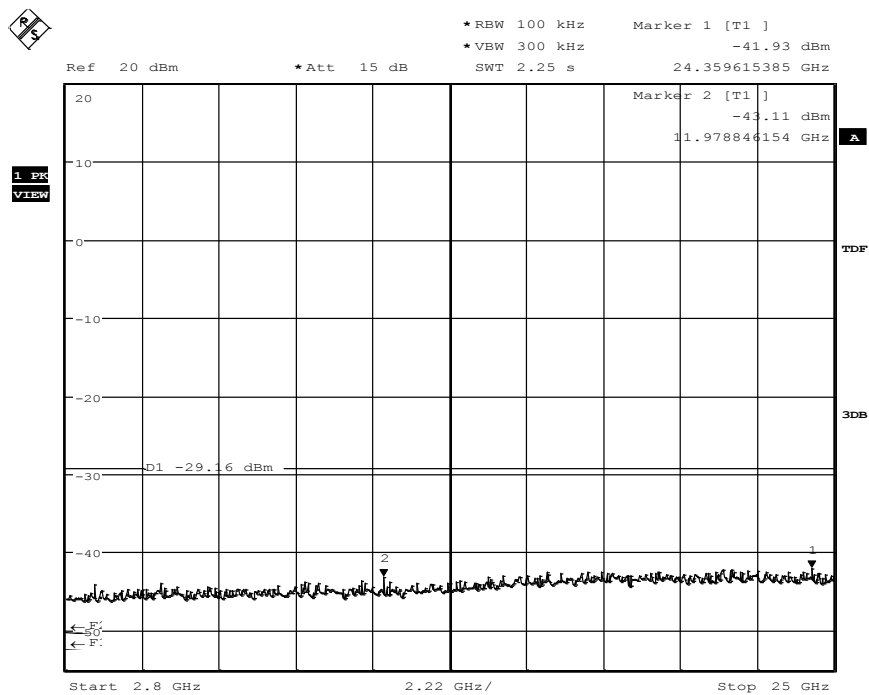
Date: 7.APR.2016 17:18:27

1.10.6.3. Sweep 2: 30MHz to 2.8GHz



Date: 7.APR.2016 17:25:00

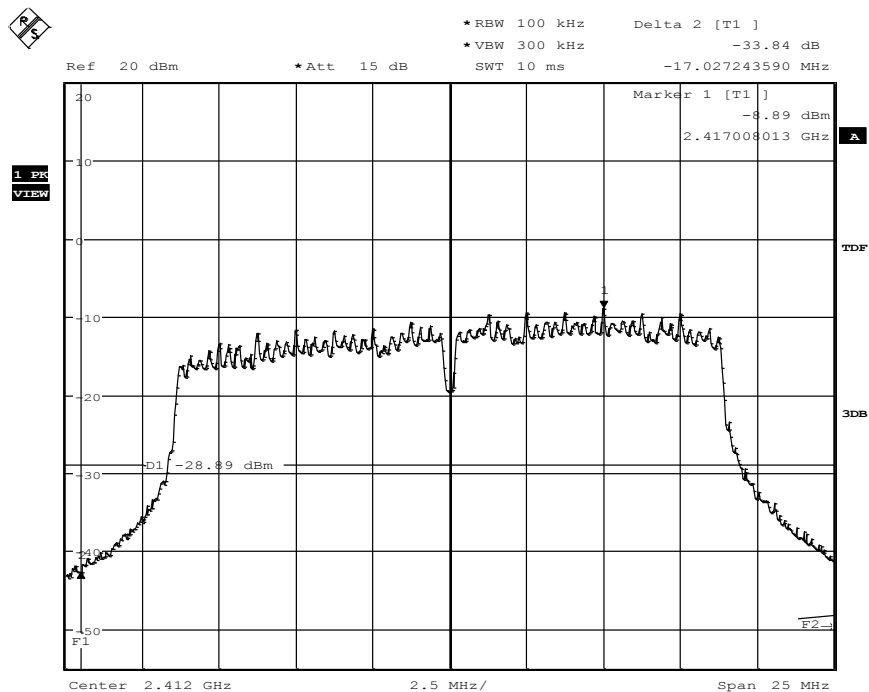
1.10.6.4. Sweep 3: 2.8GHz to 25GHz



Date: 7.APR.2016 17:29:15

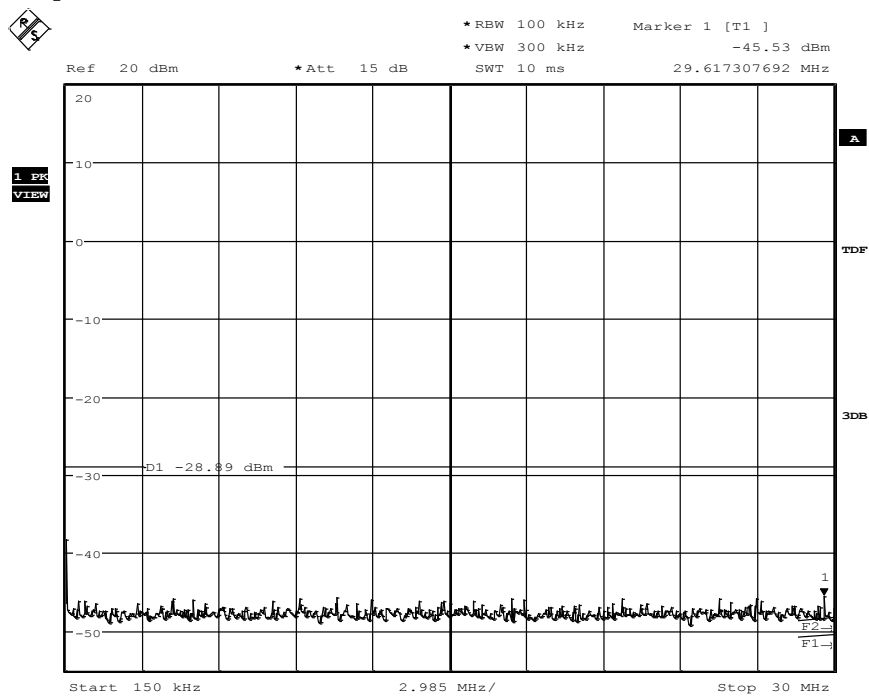
1.10.7. n-Mode Channel 1

1.10.7.1. Channel 1 Reference



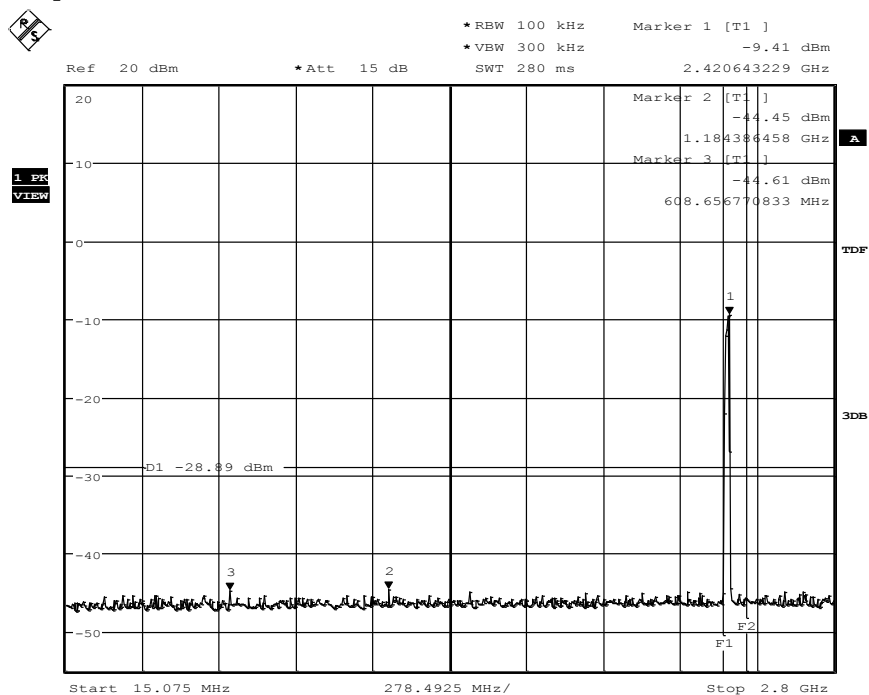
Date: 8.APR.2016 10:39:26

1.10.7.2. Sweep 1: 150kHz to 30MHz



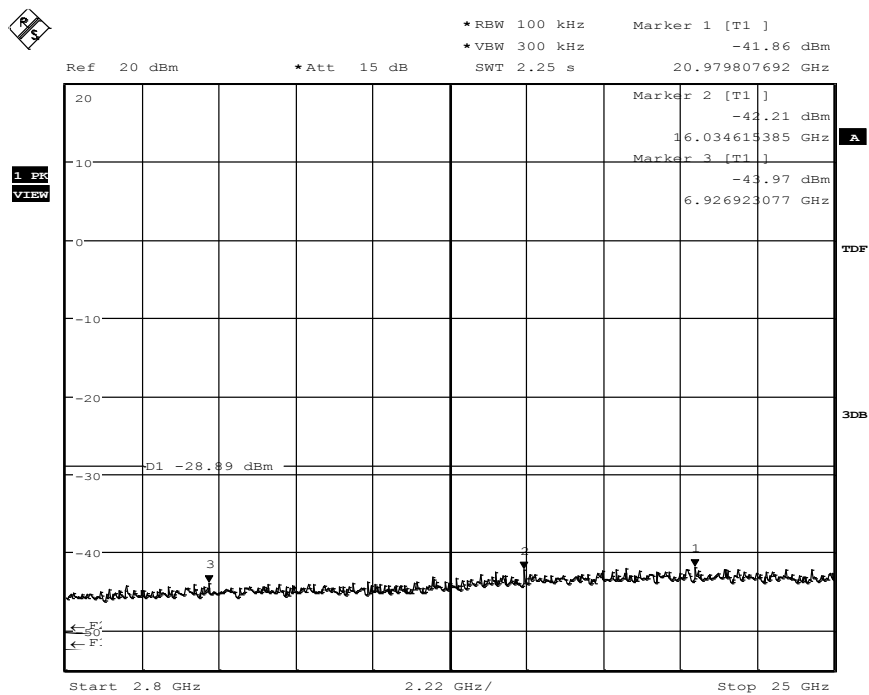
Date: 8.APR.2016 10:43:02

1.10.7.3. Sweep 2: 30MHz to 2.8GHz



Date: 8.APR.2016 10:46:50

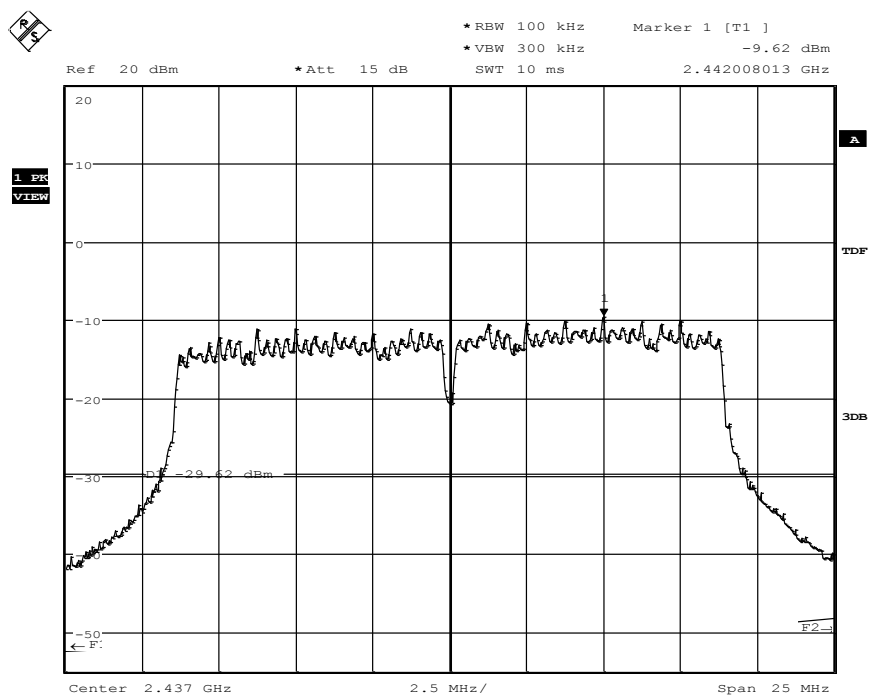
1.10.7.4. Sweep 3: 2.8GHz to 25GHz



Date: 8.APR.2016 10:55:41

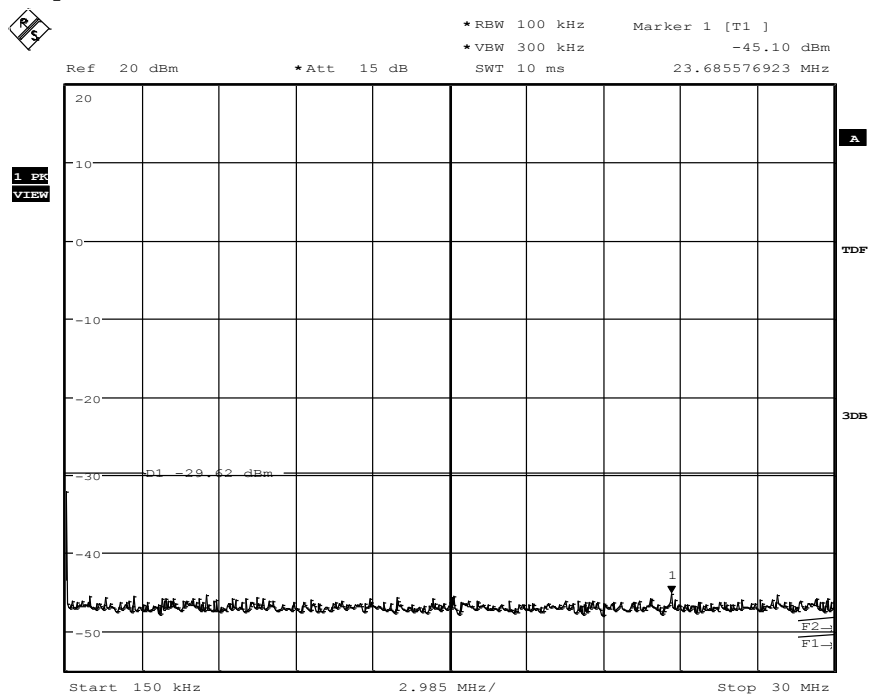
1.10.8. n-Mode Channel 6

1.10.8.1. Channel 6 Reference



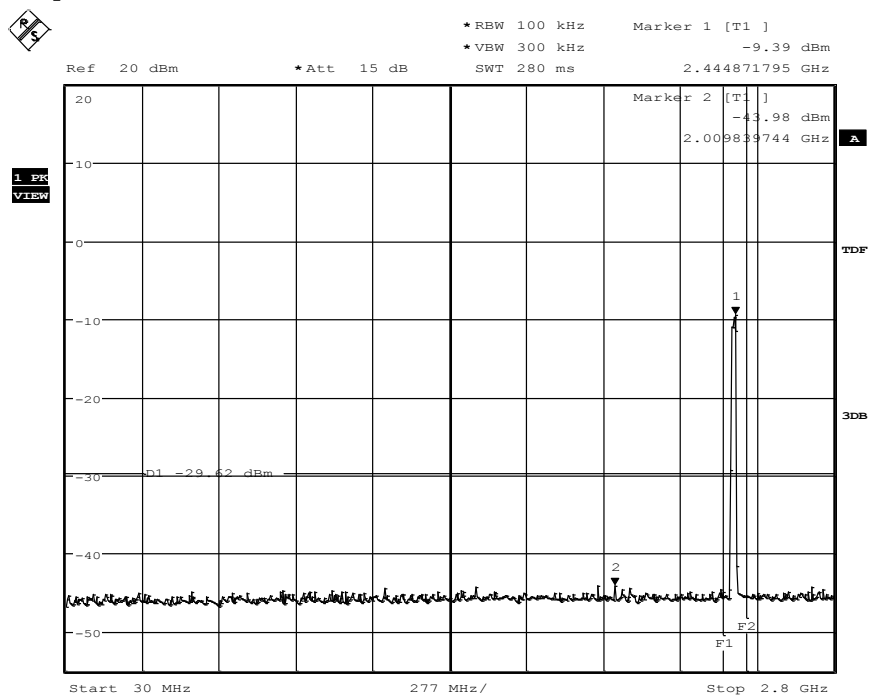
Date: 8.APR.2016 11:03:29

1.10.8.2. Sweep 1: 150kHz to 30MHz



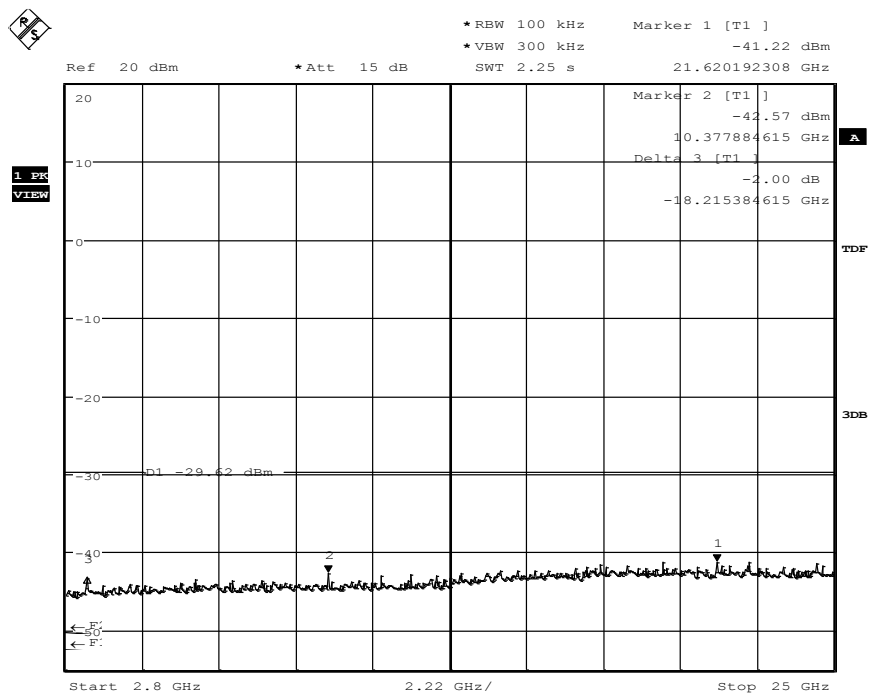
Date: 8.APR.2016 12:18:12

1.10.8.3. Sweep 2: 30MHz to 2.8GHz



Date: 8.APR.2016 11:56:19

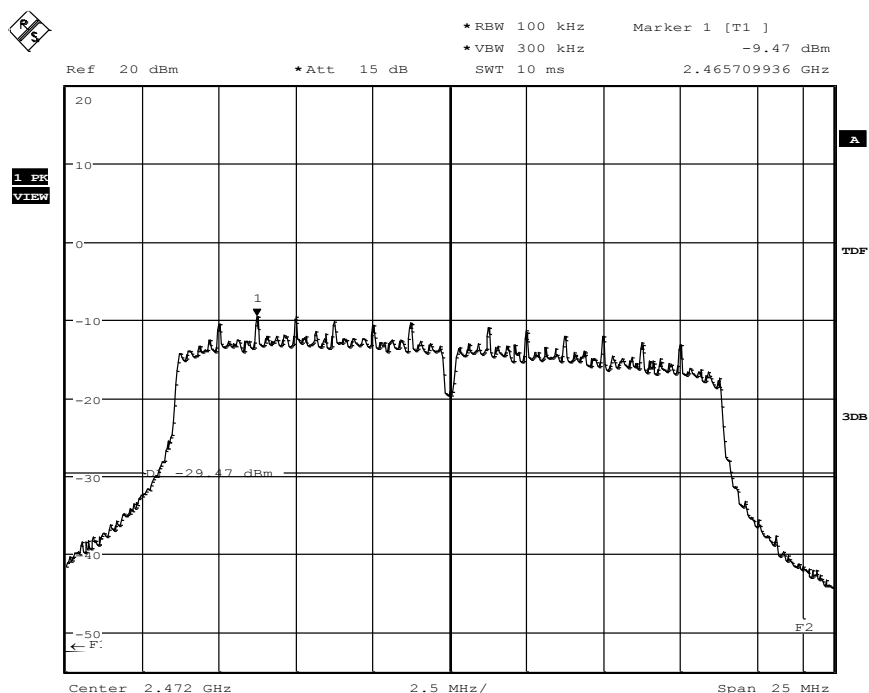
1.10.8.4. Sweep 3: 2.8GHz to 25GHz



Date: 8.APR.2016 11:38:26

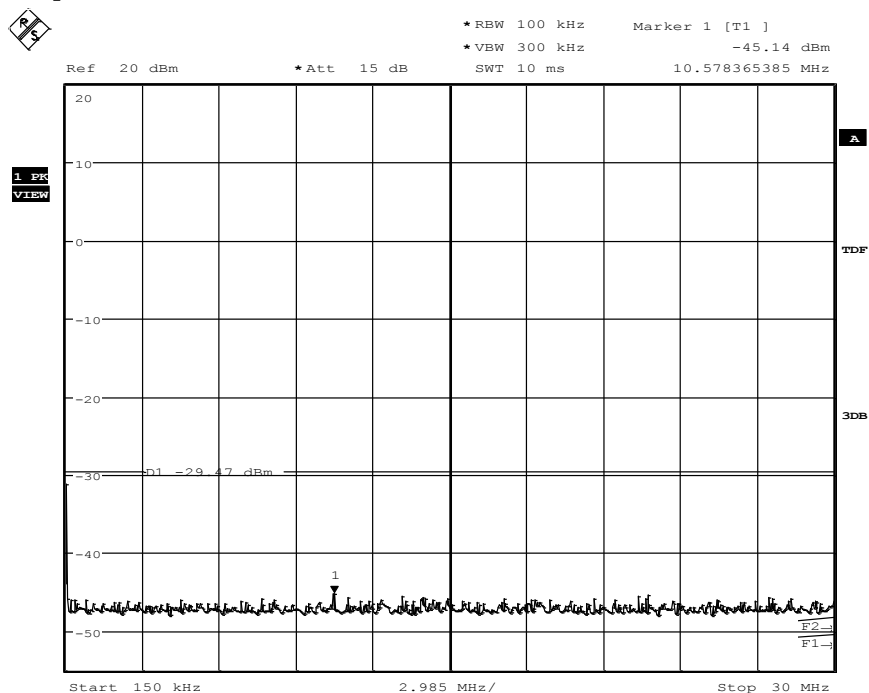
1.10.9. n-Mode Channel 13 (MCS1)

1.10.9.1. Channel 13 Reference



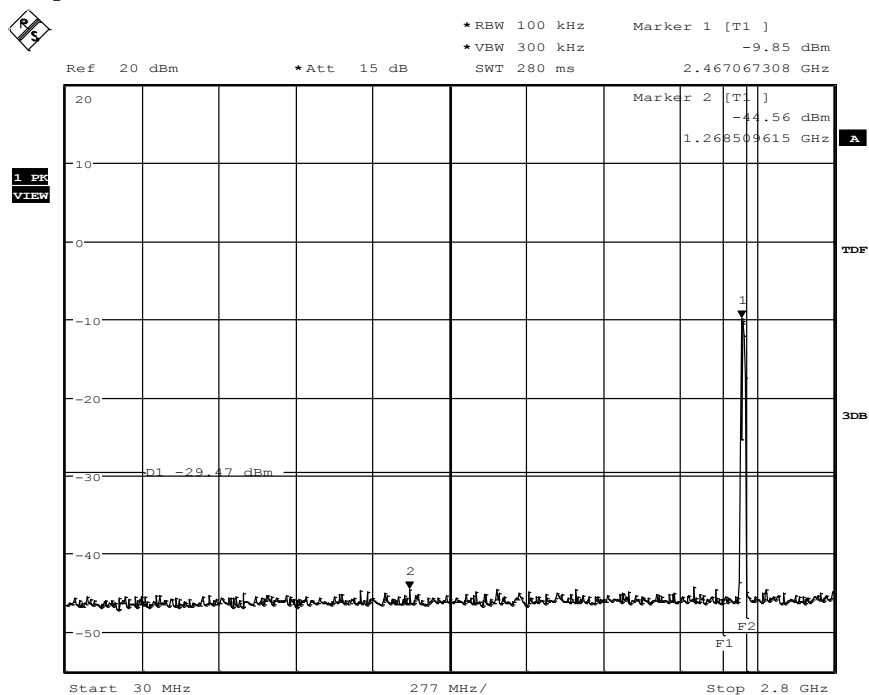
Date: 8.APR.2016 12:28:09

1.10.9.2. Sweep 1: 150kHz to 30MHz



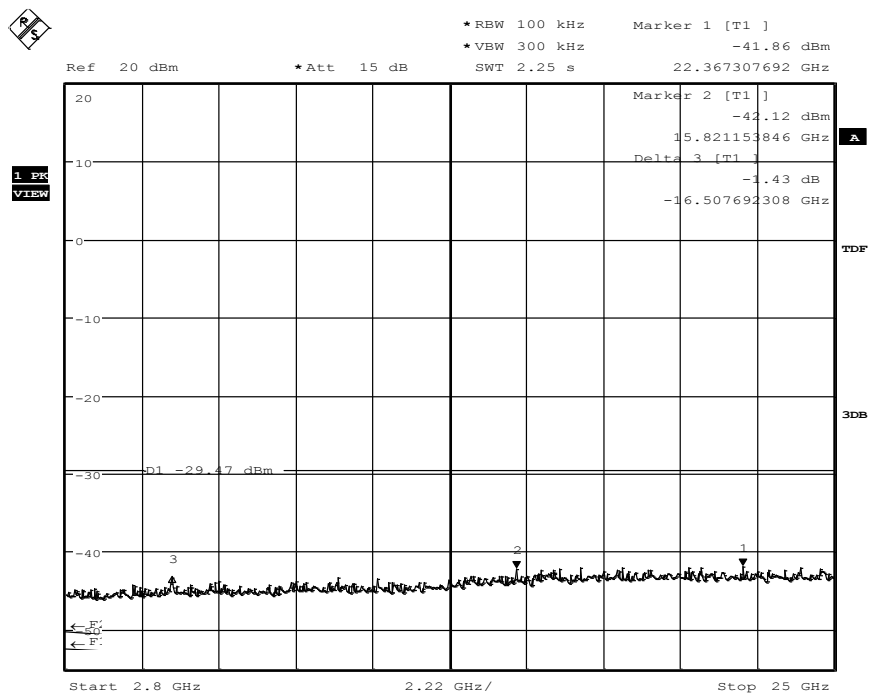
Date: 8.APR.2016 12:57:53

1.10.9.3. Sweep 2: 30MHz to 2.8GHz



Date: 8.APR.2016 12:43:48

1.10.9.4. Sweep 3: 2.8GHz to 25GHz



Date: 8.APR.2016 12:37:03