







Annex 1: Measurement diagrams  
to TEST REPORT  
No.: 2-20797620a/11

According to:  
**FCC Regulations**  
Part 15.107 & 15.109  
Part 15.207 & 15.209 & Part 15.247  
**IC Regulations**  
RSS-Gen, Issue 3  
RSS-210: Issue 8

for  
Sony Ericsson Mobile Communications AB

Mobile phone AAD-3880110-BV  
+  
FCC-ID: PY7A3880110  
IC: 4170B-A3880110

Laboratory Accreditation and Listings			
 Deutsche Akkreditierungsstelle D-PL-12047-01-01	 Reg. No.: 736496 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2665, R-2666 C-2914, T-1967, G-301
 AUTHORIZED RF LABORATORY	 LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
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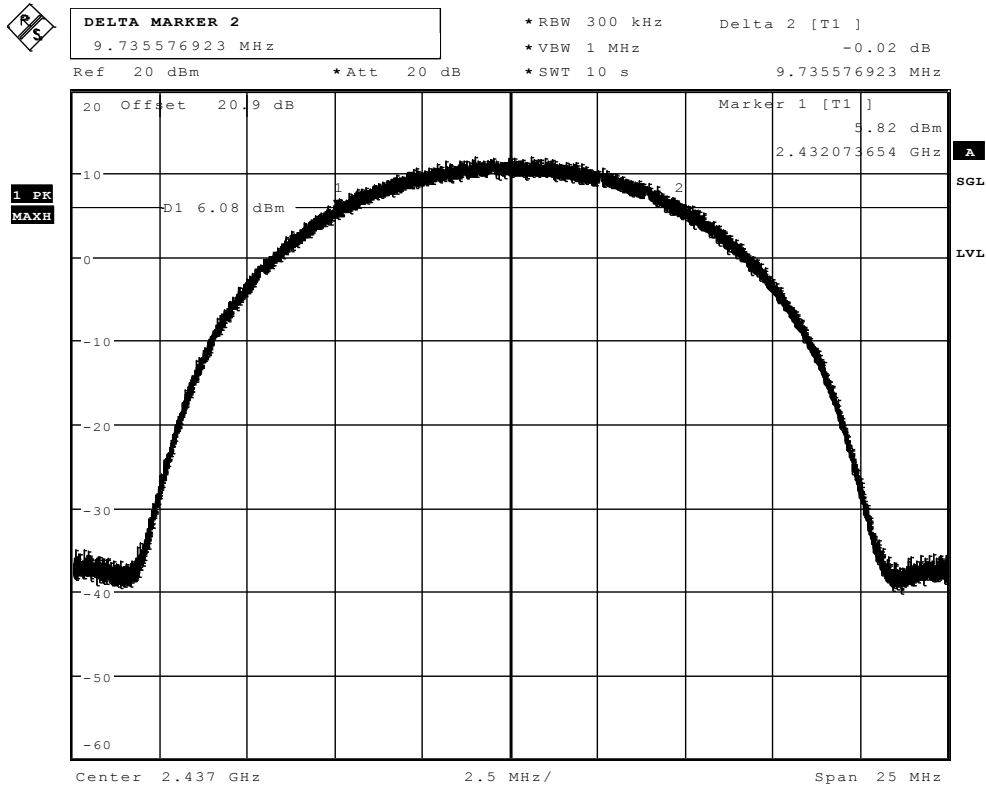
## 1. Measurement diagrams

### 1.1. 6dB bandwidth

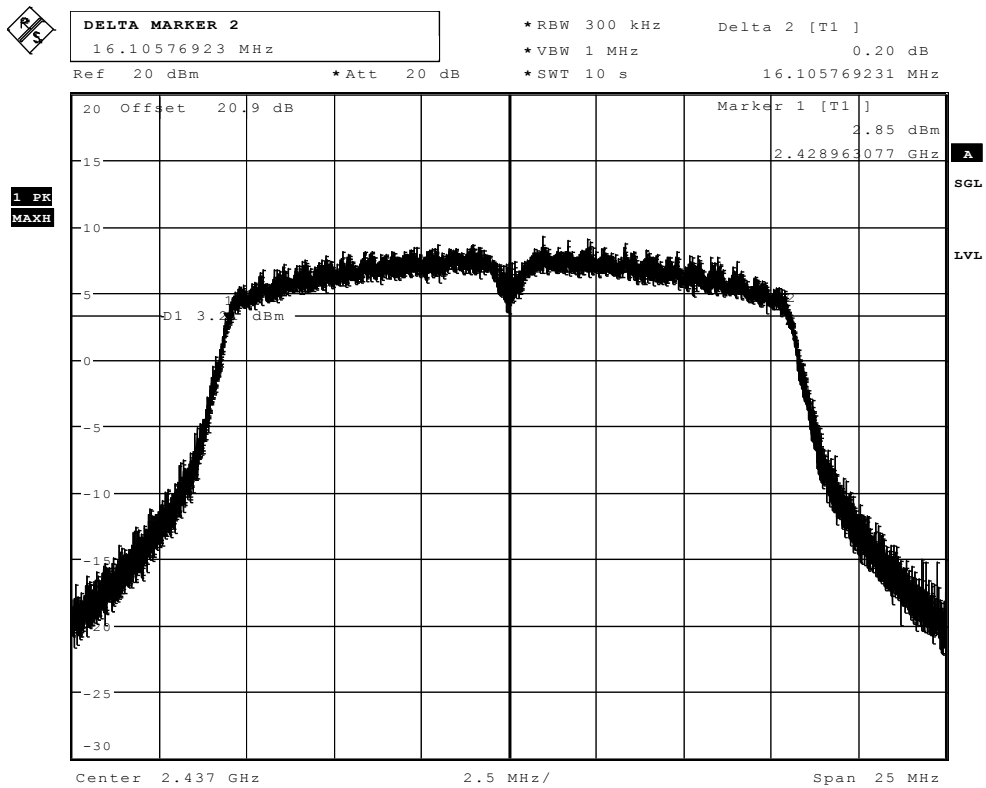
Following table show measured values for the 6dB bandwidth for different modulation types and channels. Minimum and Maximum data rates were tested for each mode. Unit is MHz.

Modulation	Data Rate	Ch 1=2412MHz	Ch 6=2437MHz	Ch 11=2462MHz	Max. Value
DBPSK	1MBit	9,1746	9,1346	9,1746	
DQPSK	2MBit	--	--	--	9,7355
CCK/PBCC	5.5MBit	--	--	--	
CCK/PBCC	11MBit	9,6955	<b>9,7355</b>	9,7355	
BPSK	6	15,9455	<b>16,1057</b>	15,9855	
	9	--	--	--	
	12	--	--	--	
QPSK	18	--	--	--	16,1057
	24	--	--	--	
16QAM	36	--	--	--	
	48	--	--	--	
64QAM	54	15,9855	15,9855	16,0256	
<b>Long Guard</b>					
	MCS0	17,0673	17,1073	17,1474	
	MCS4	--	--	--	17,2676
	MCS7	17,1875	<b>17,2676</b>	17,2275	
<b>Short guard</b>					
	MCS0	17,1875	<b>17,2676</b>	17,2275	
	MCS4	--	--	--	17,2676
	MCS7	16,9871	16,6266	16,7868	

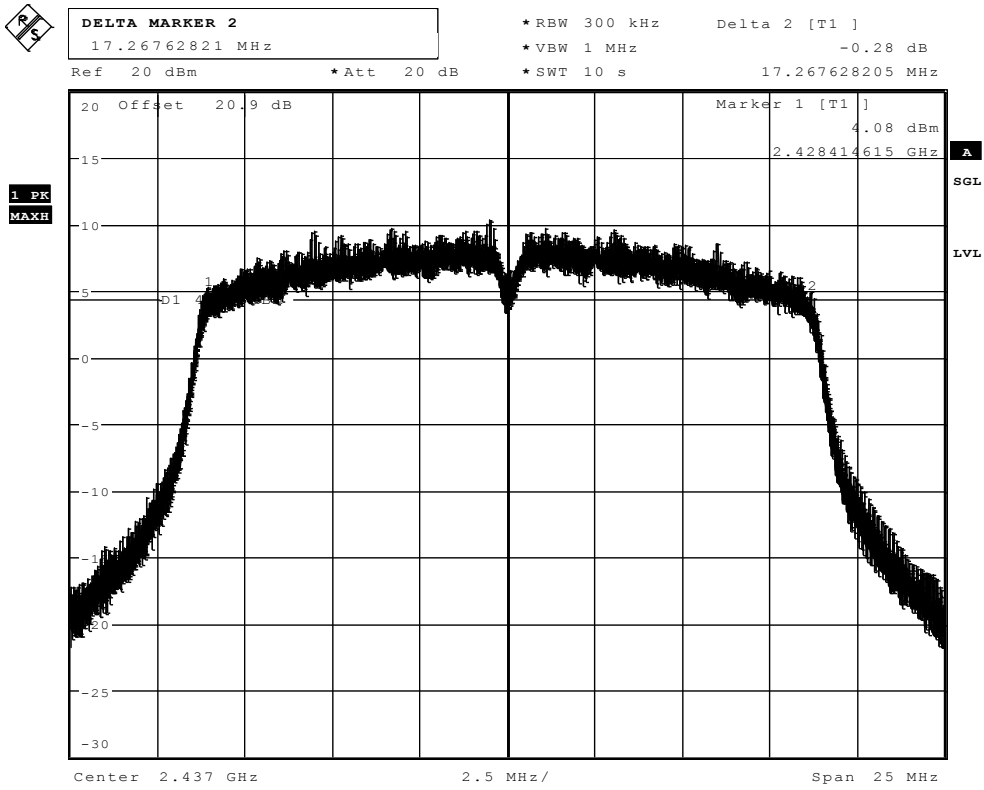
Below also some diagrams showing the maximum value for 3 channels and different modulation types.



Date: 9.MAY.2011 14:54:17  
**CCK/PBCC Modulation, 11MBit, Channel 6**

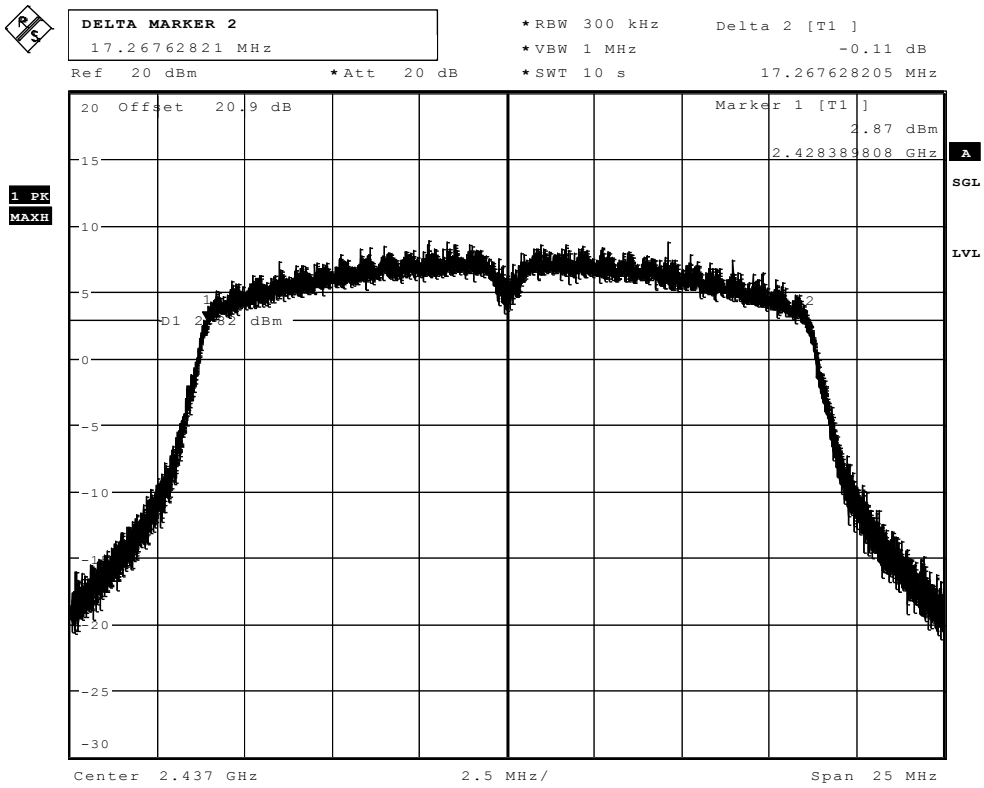


Date: 9.MAY.2011 15:02:47  
**BPSK Modulation (OFDM), 54MBit, Channel 6**



Date: 9.MAY.2011 15:10:43

**MCS7, long-guard Modulation (OFDM), Channel 6**

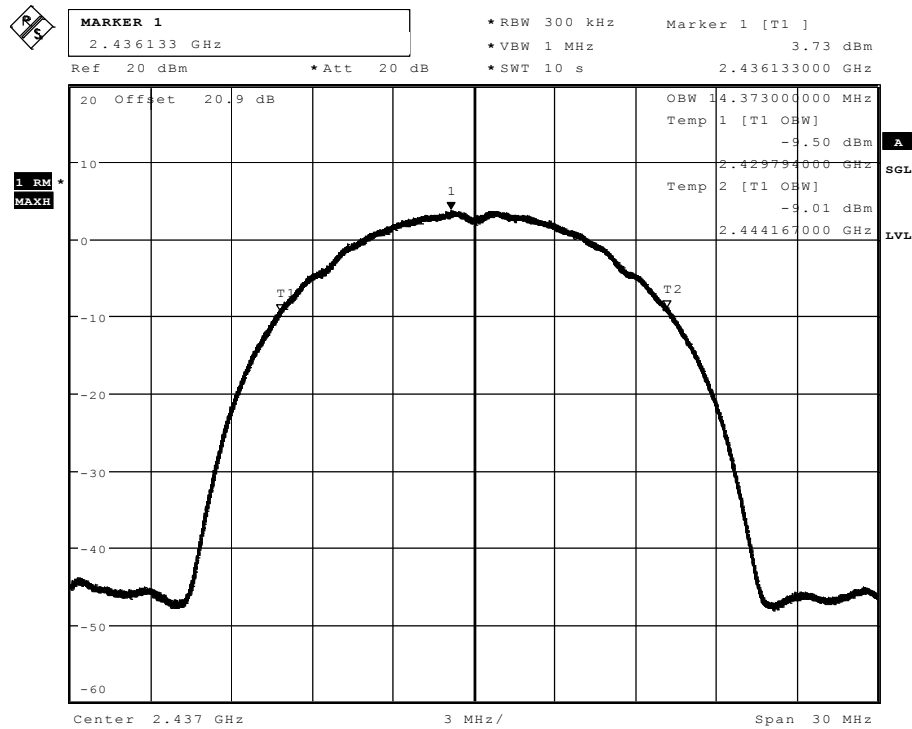


Date: 9.MAY.2011 15:20:49

**MCS0, short-guard Modulation (OFDM), Channel 6**

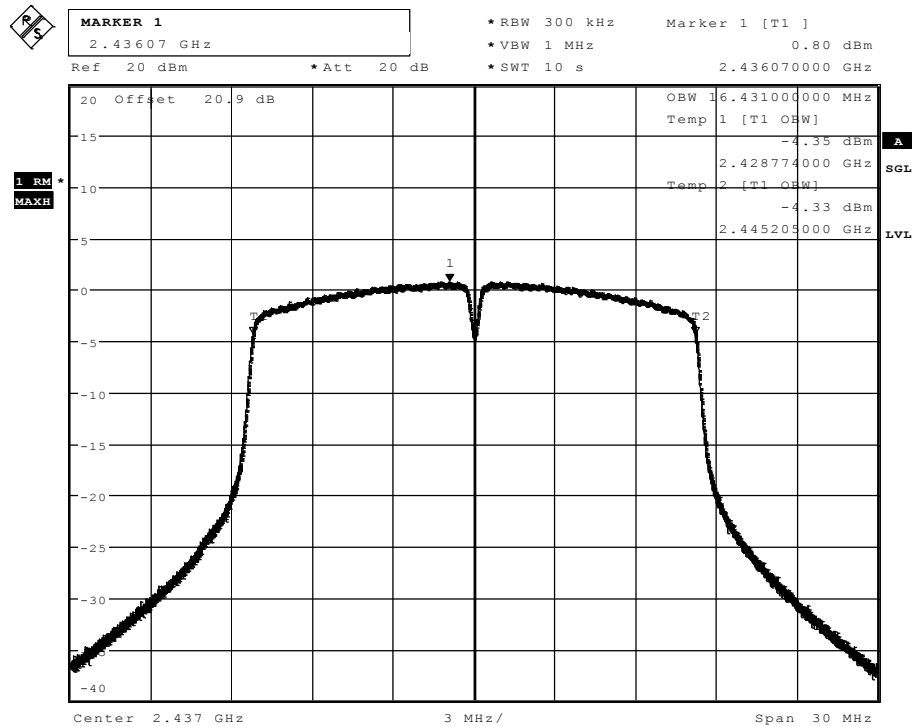
## 1.2. 99% Occupied bandwidth

Value was measured for each modulation were also worst-case 6dB bandwidth.



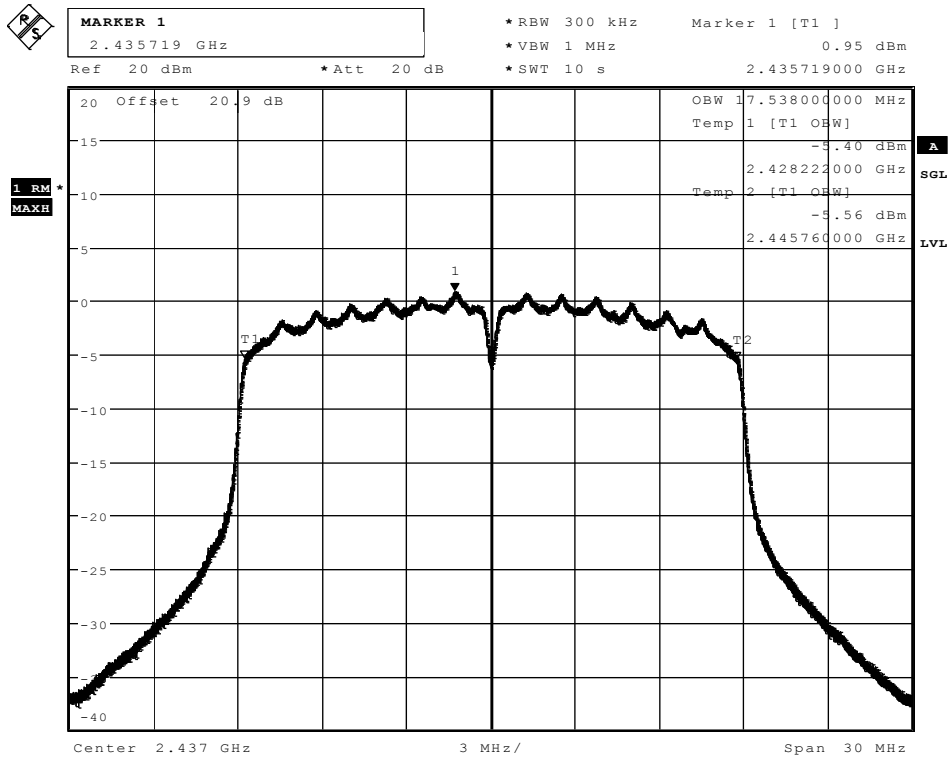
Date: 9.MAY.2011 15:41:39

### CCK/PBCC Modulation, 11Mbit, Channel 6



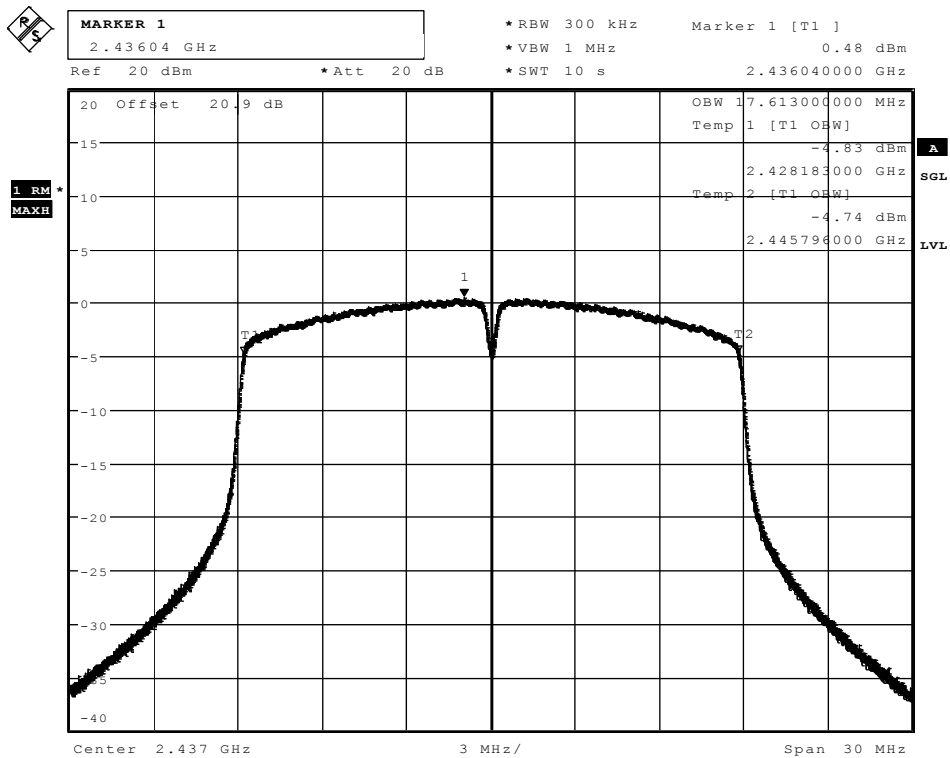
Date: 9.MAY.2011 15:40:08

### BPSK Modulation (OFDM), 6MBit, Channel 6



Date: 9.MAY.2011 15:39:07

**MCS7, long-guard Modulation (OFDM), Channel 6**



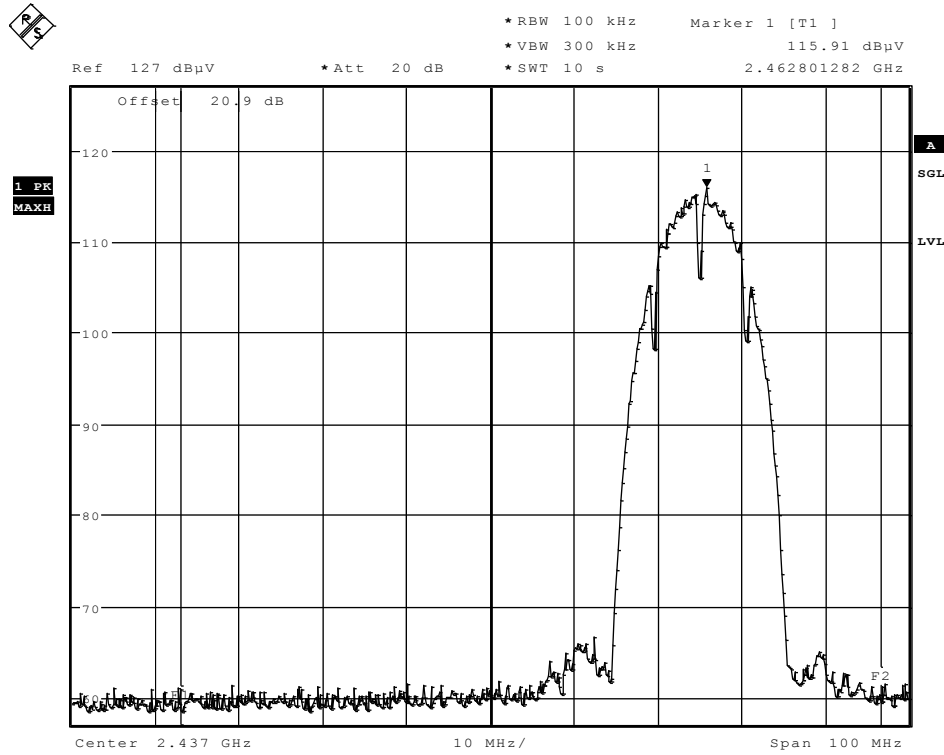
Date: 9.MAY.2011 15:38:12

**MCS0, long-guard Modulation (OFDM), Channel 6**

### 1.3. 20dBc conducted emissions

Tests have been performed at maximum measured power level of each modulation type. Pls. compare chapter conducted power for each worst-case. In addition the lowest and highest channel was checked against 20dBc compliance at the relevant band-edge.

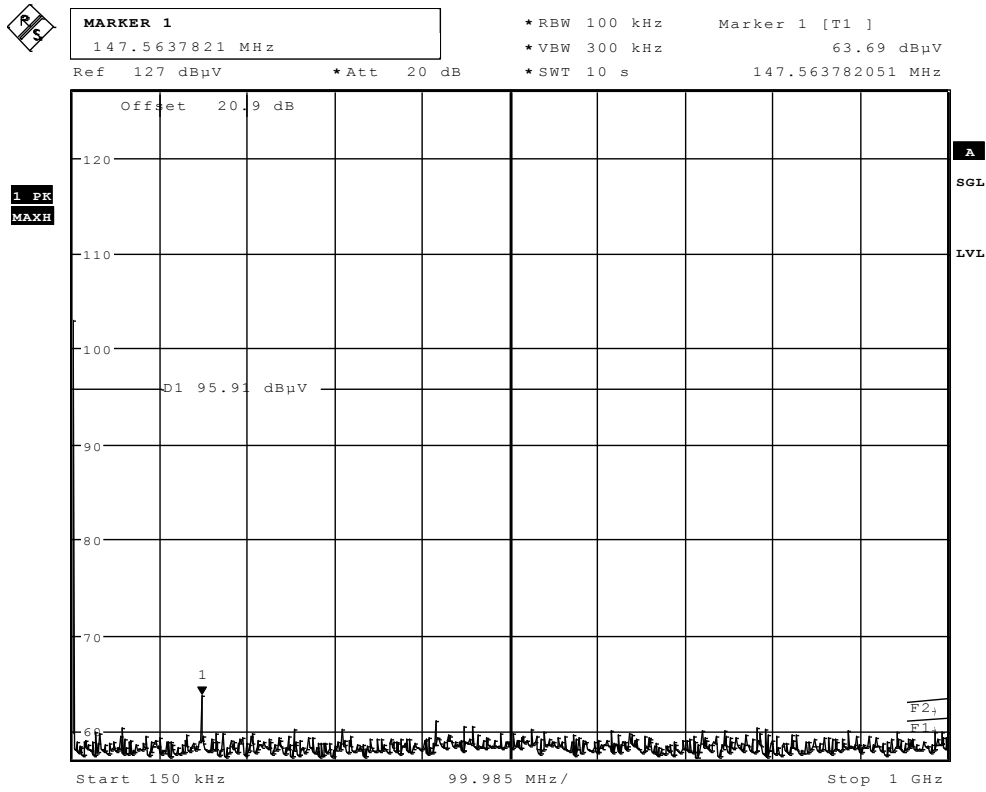
#### 1.3.1. IEEE 802.11 b-Mode, channel 11, 2MBit



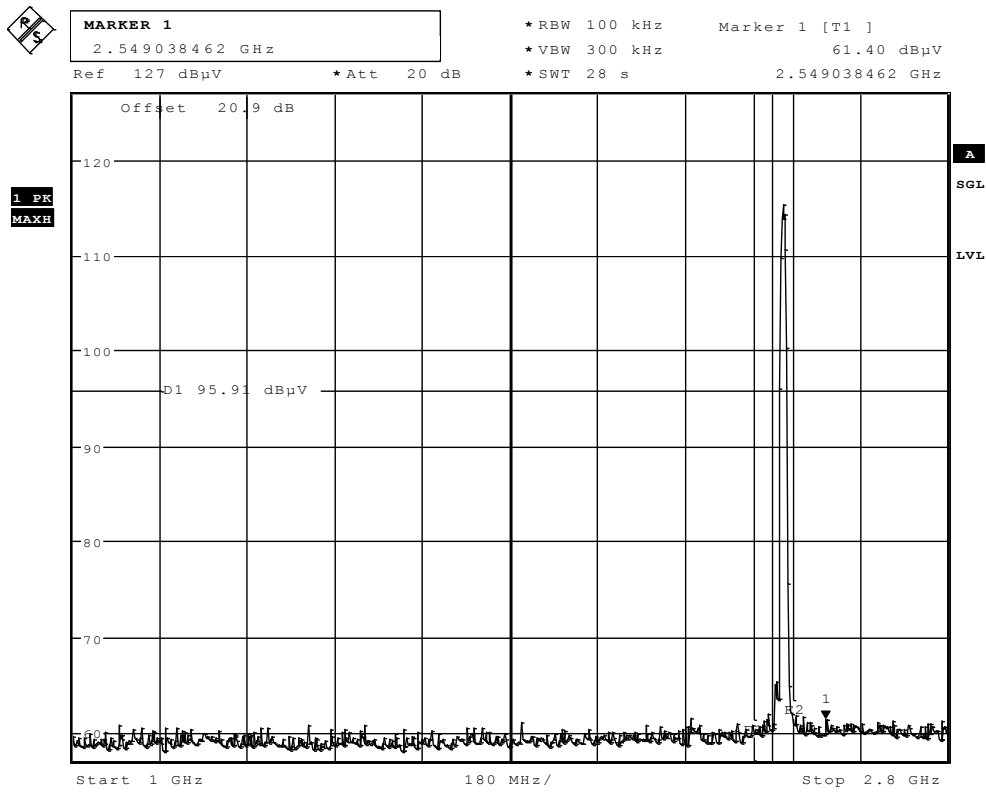
Date: 9.MAY.2011 16:12:53

**In-BAND reference value for channel 11**

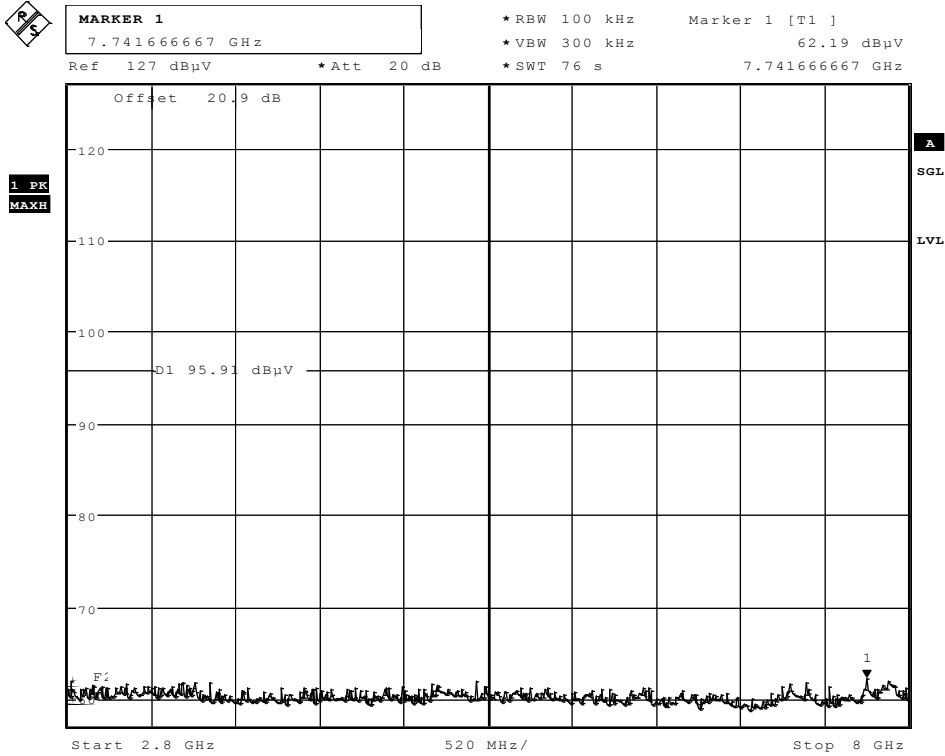




Date: 9.MAY.2011 16:14:48  
**Sweep 1: Channel 11 (150kHz to 1GHz)**

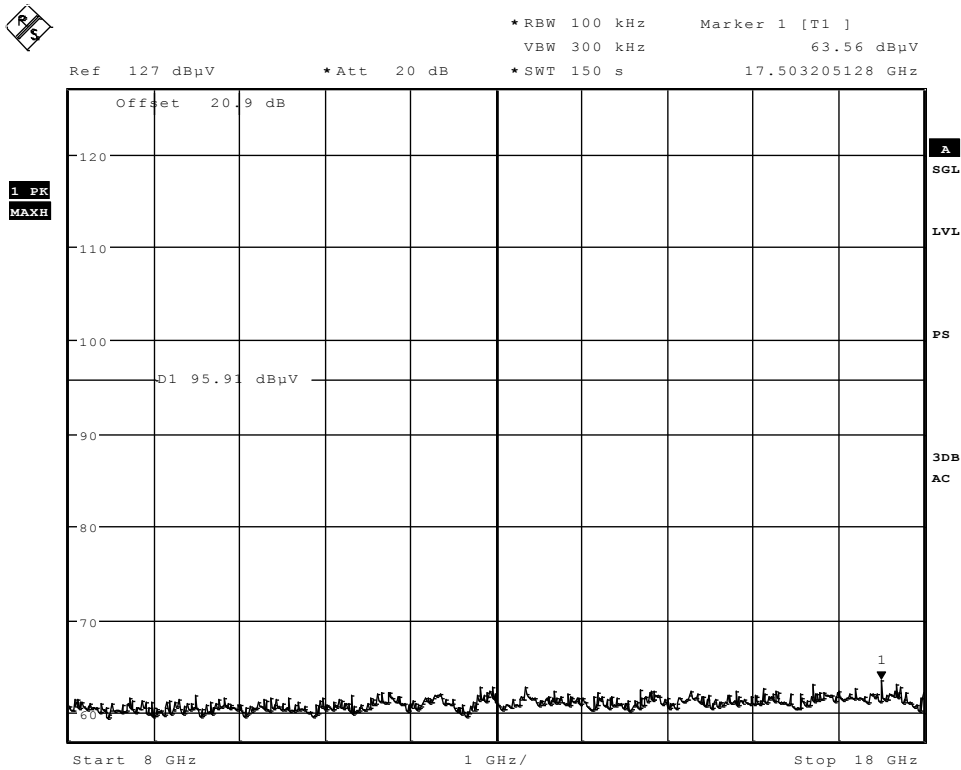


Date: 9.MAY.2011 16:16:31  
**Sweep 2: Channel 11 (1GHz to 2.8GHz)**



Date: 9.MAY.2011 16:19:17

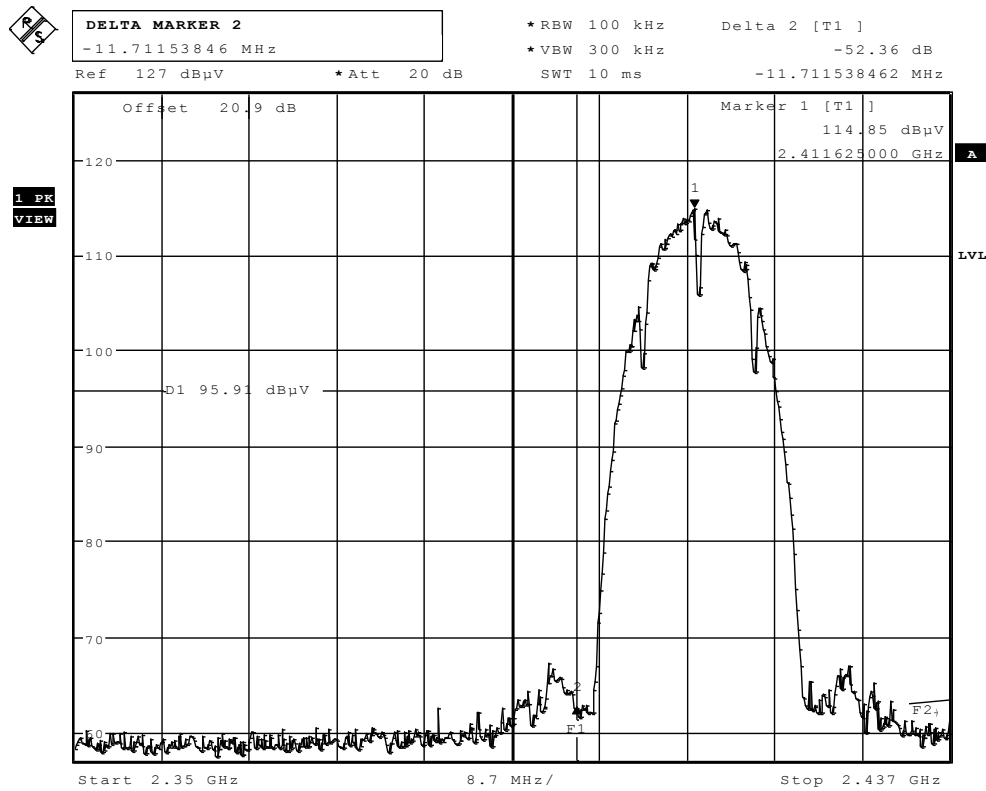
**Sweep 3: Channel 11 (2.8GHz to 8GHz)**



Date: 10.MAY.2011 10:35:53

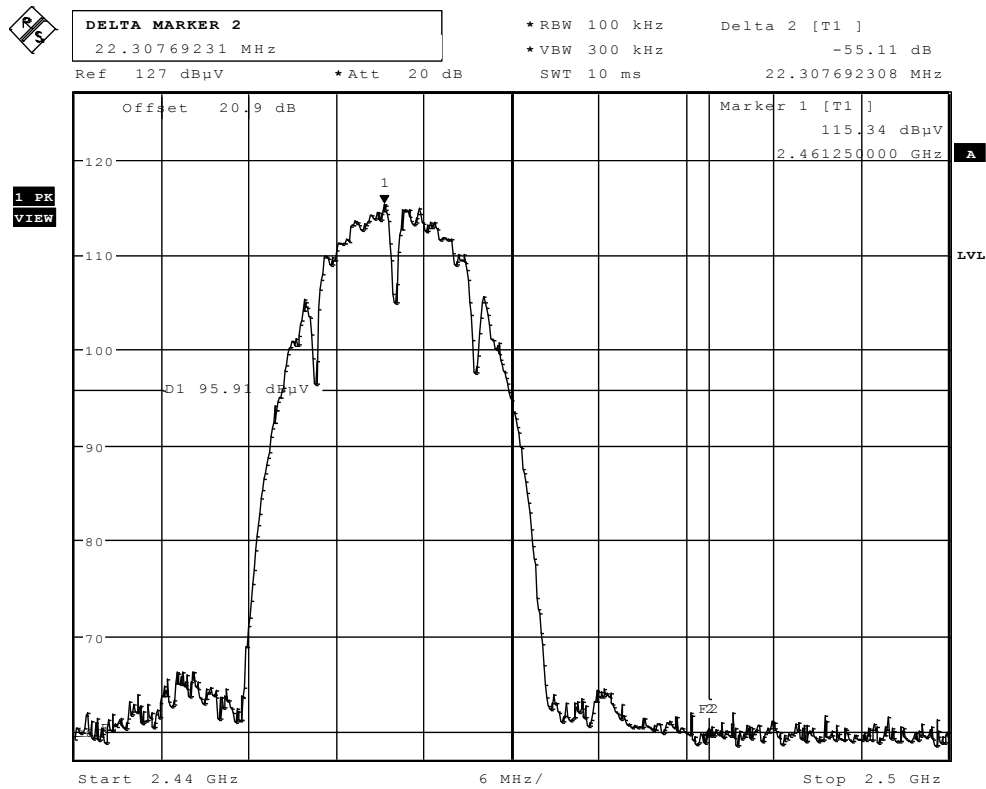
**Sweep 4: Channel 11 (8GHz to 18GHz)**

### 1.3.2. IEEE802.11 b-Mode, 2MBit, channel 1&11, Band-Edge 20dBc



Date: 9.MAY.2011 16:25:27

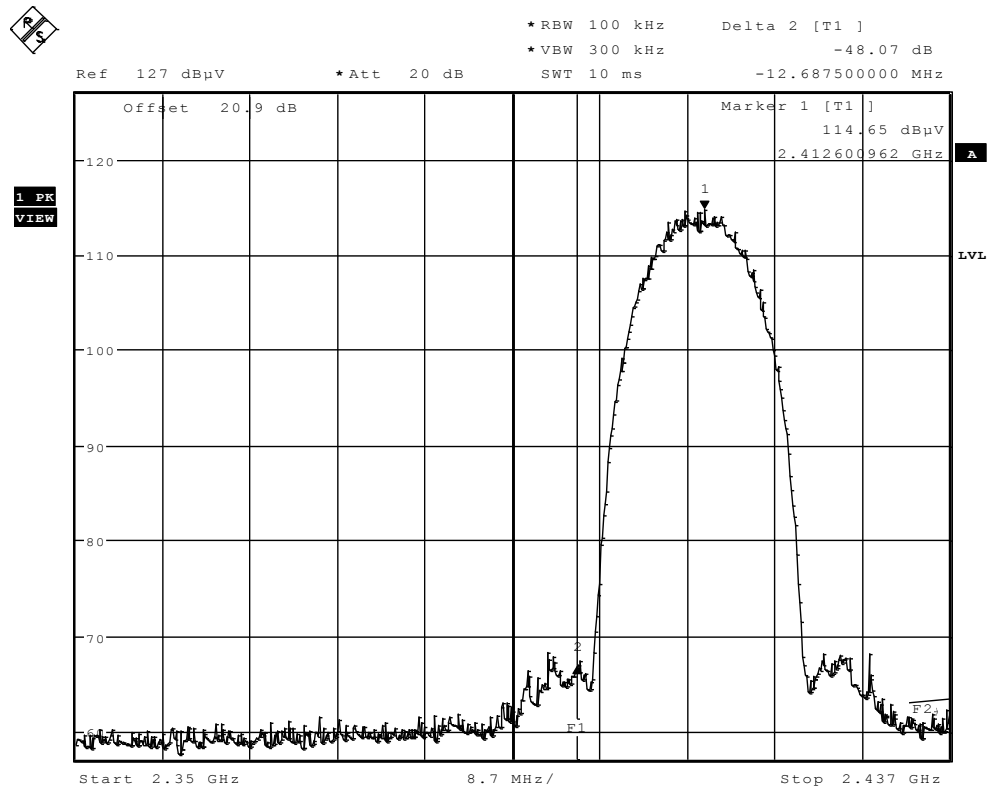
#### Band-Edge left, channel 1, b-Mode, 2Mbit



Date: 9.MAY.2011 16:22:13

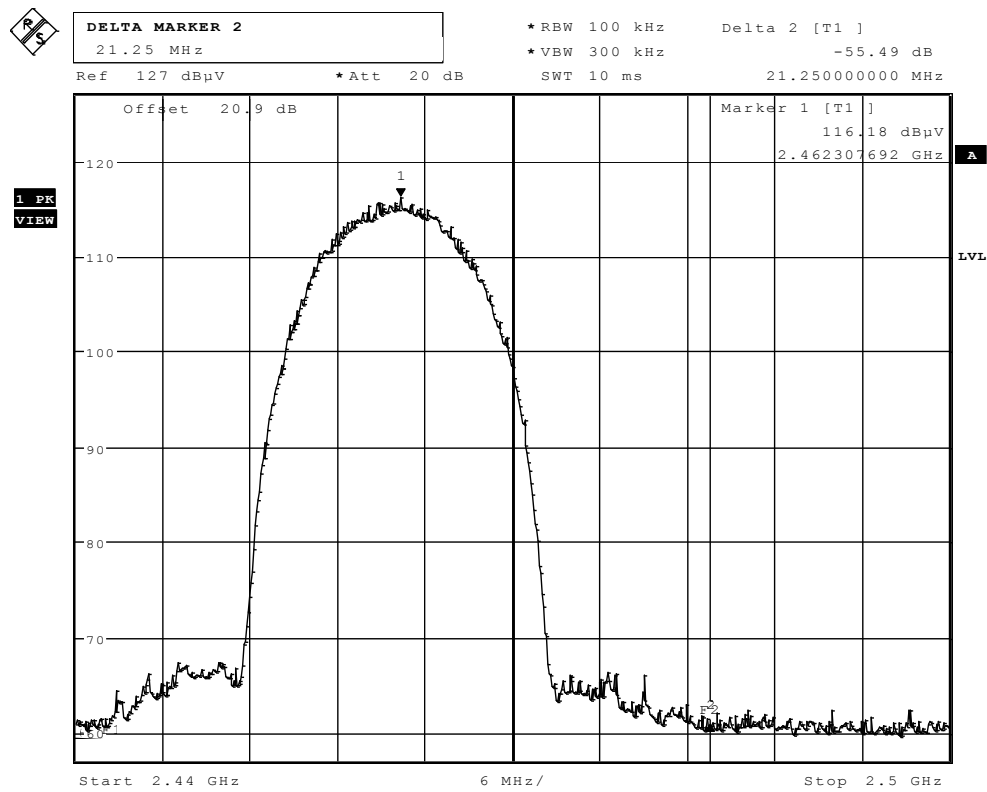
#### Band-Edge right, channel 11, b-Mode, 2Mbit

### 1.3.3. IEEE802.11 b-Mode, 11MBit, channel 1&11, Band-Edge 20dBc



Date: 9.MAY.2011 16:27:53

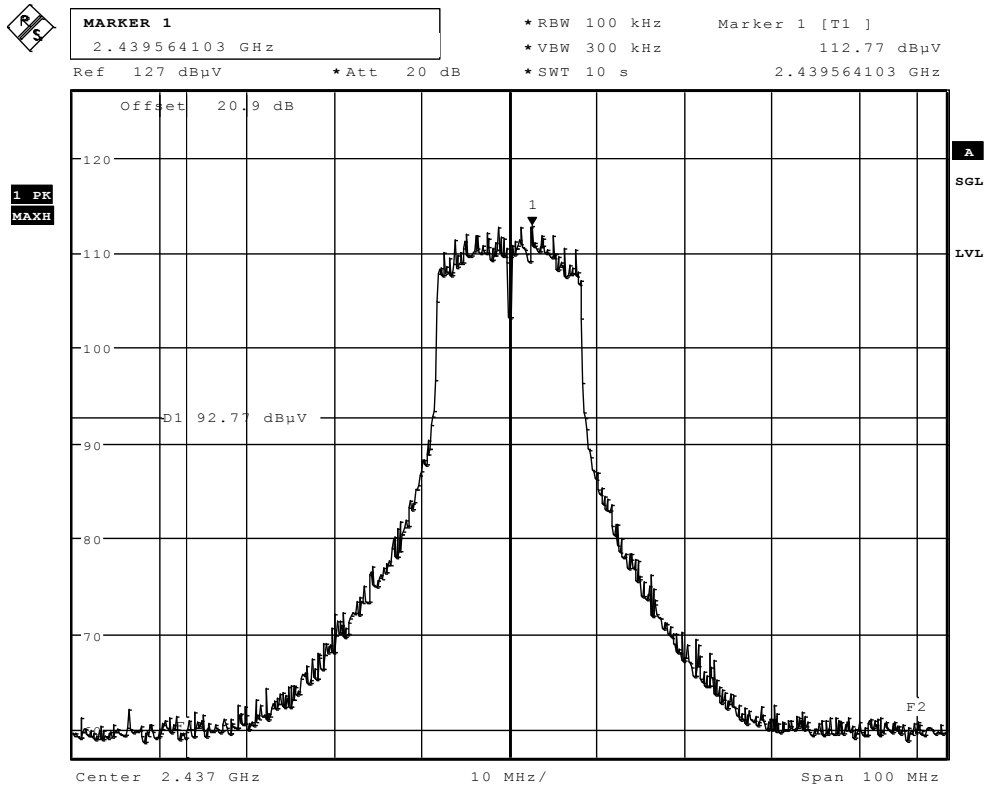
#### Band-Edge left, channel 1, b-Mode, 11Mbit



Date: 9.MAY.2011 16:30:48

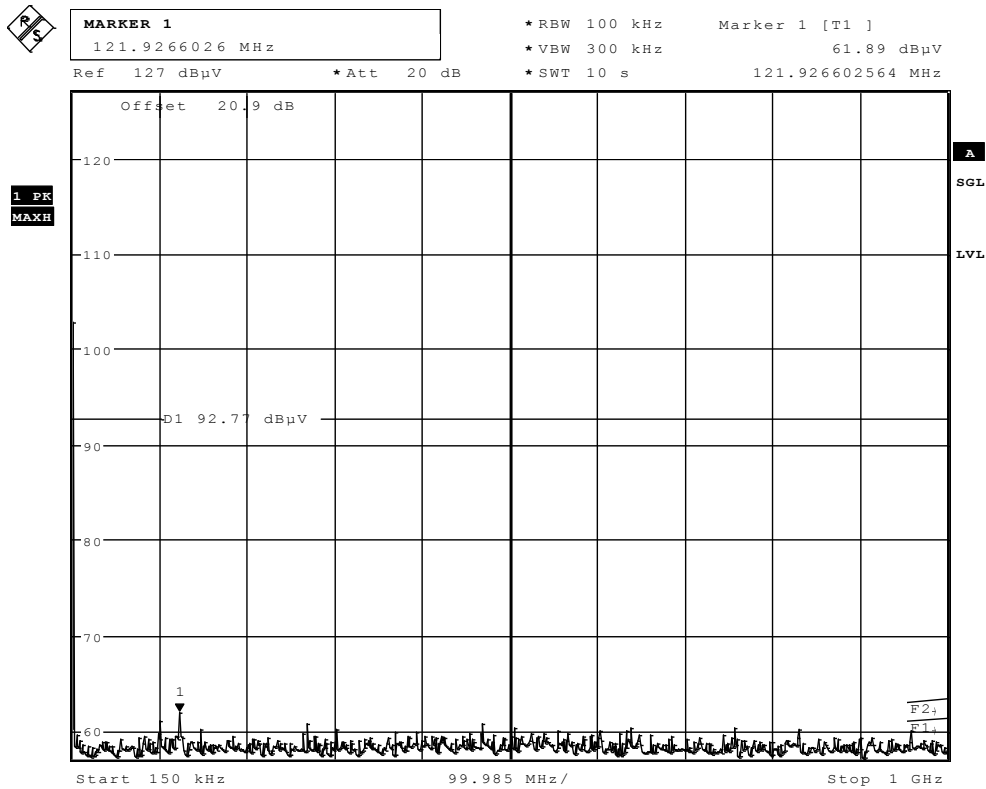
#### Band-Edge left, channel 1, b-Mode, 11Mbit

### 1.3.4. IEEE802.11 g-Mode, channel 6



Date: 9.MAY.2011 16:44:46

### In-Band Reference Value for channel 6, 54 MBit, b-Mode

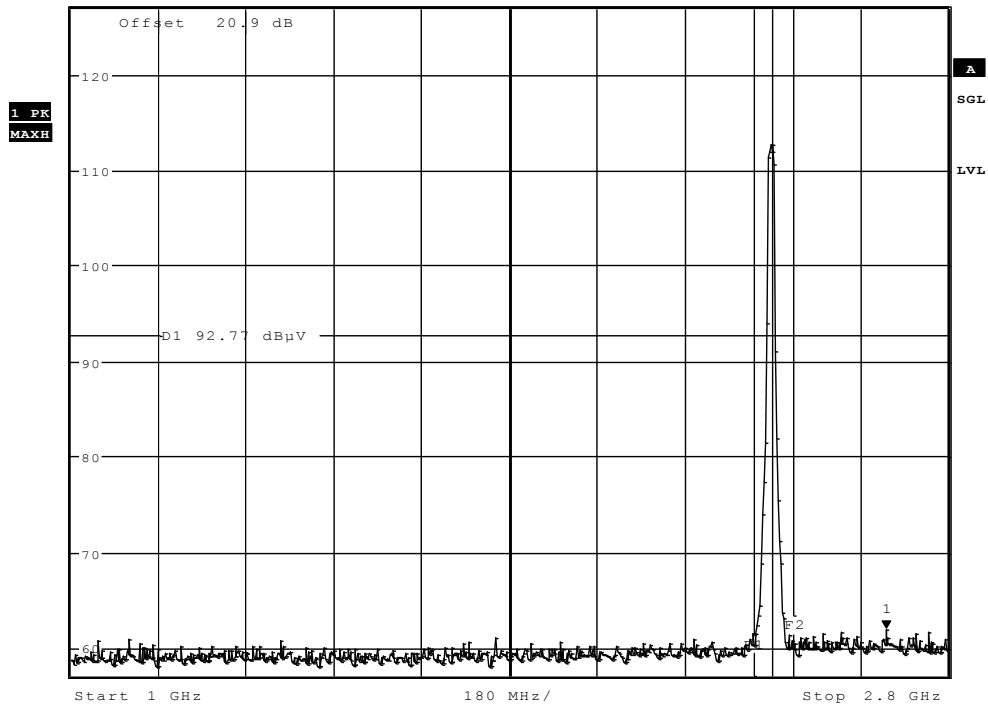


Date: 9.MAY.2011 16:43:44

### Sweep 1: Channel 6 (150kHz to 1GHz)



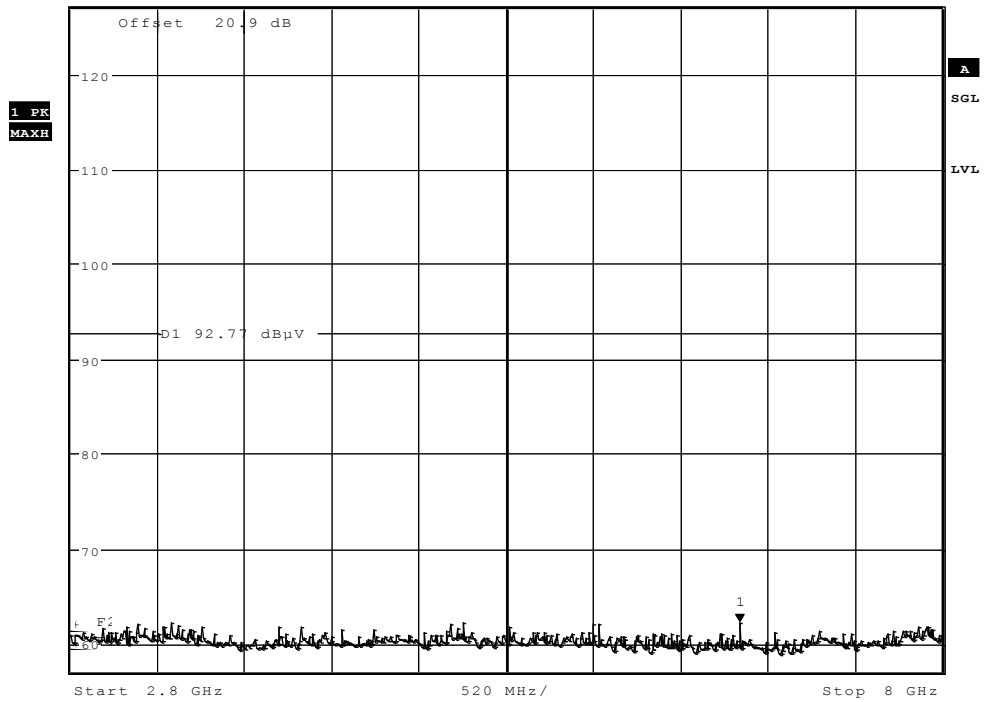
**MARKER 1**  
 2.673217949 GHz  
 Ref 127 dBµV \*Att 20 dB \*RBW 100 kHz \*VBW 300 kHz \*SWT 28 s  
 Marker 1 [T1] 61.88 dBµV  
 2.673217949 GHz



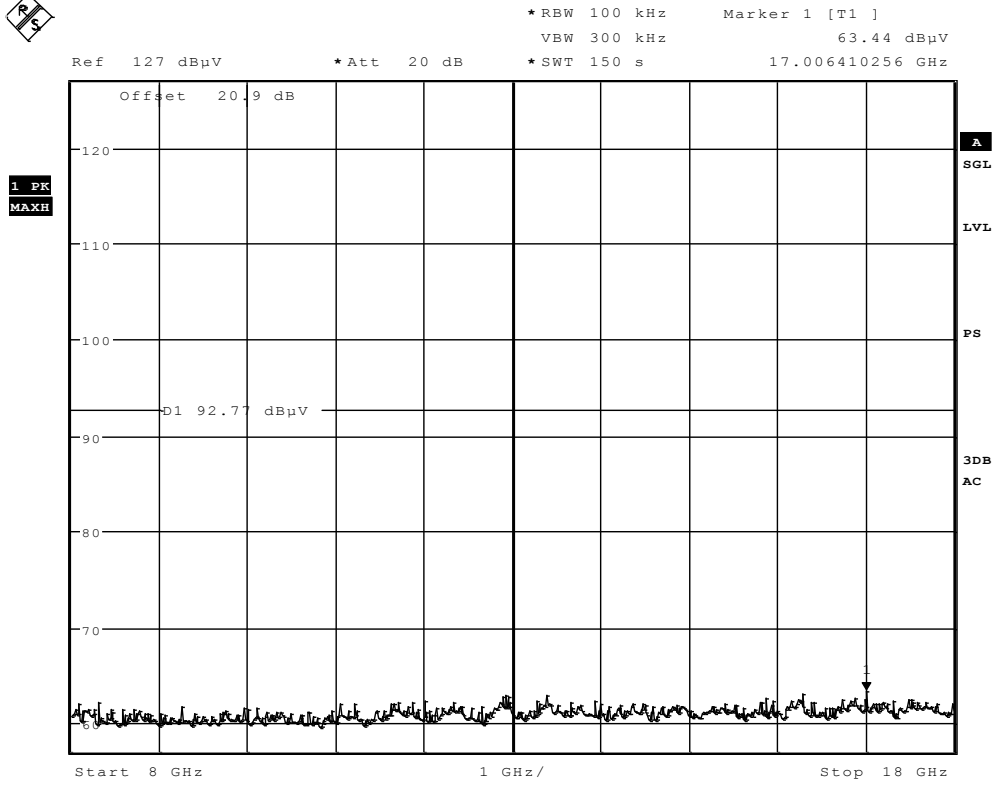
Date: 9.MAY.2011 16:46:23  
**Sweep 2: Channel 6 (1GHz to 2.8GHz)**



**MARKER 1**  
 6.791666667 GHz  
 Ref 127 dBµV \*Att 20 dB \*RBW 100 kHz \*VBW 300 kHz \*SWT 76 s  
 Marker 1 [T1] 62.22 dBµV  
 6.791666667 GHz



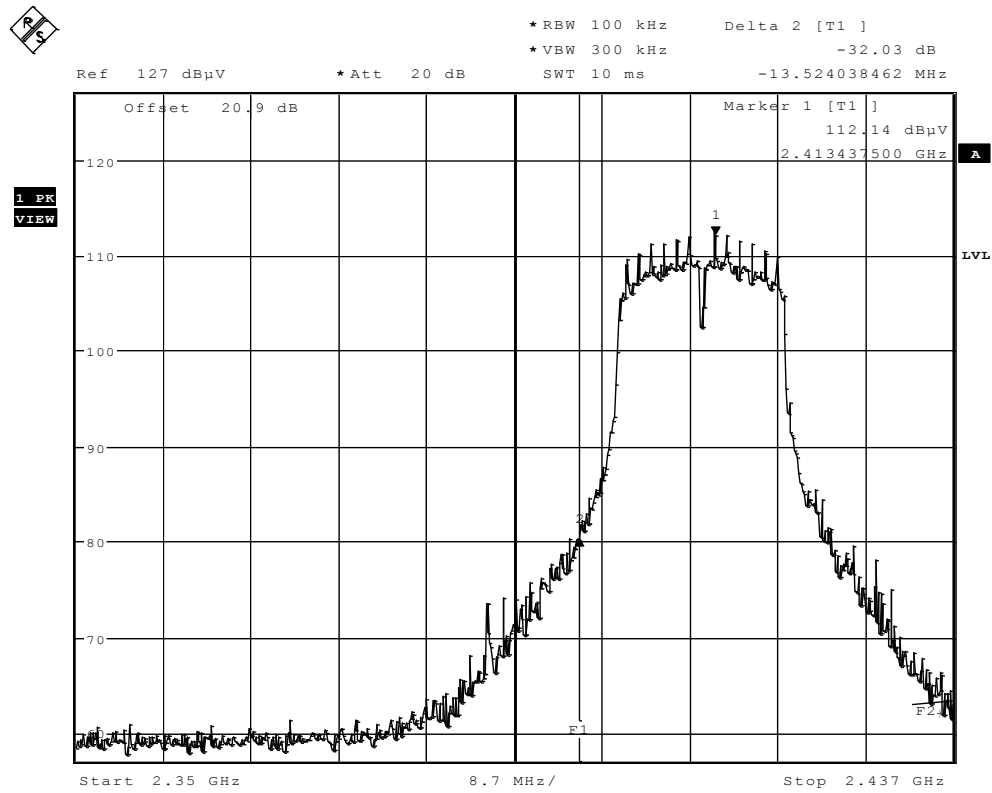
Date: 9.MAY.2011 16:48:36  
**Sweep 3: Channel 6 (2.8GHz to 8GHz)**



Date: 10.MAY.2011 10:30:56

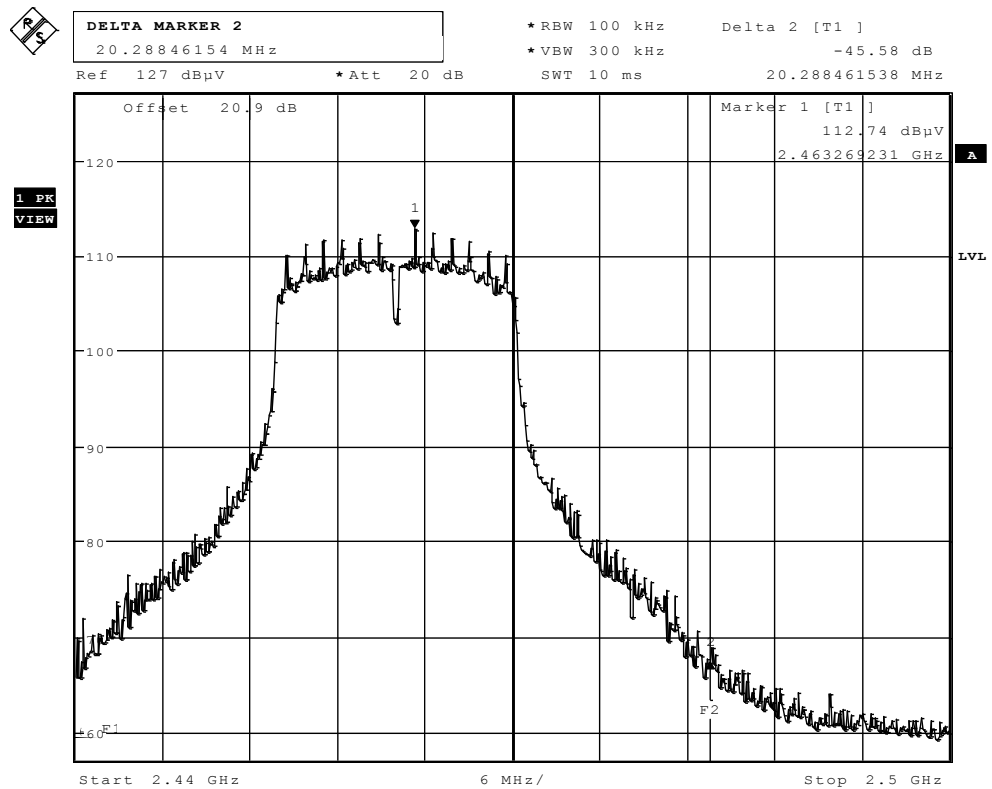
**Sweep 4: Channel 6 (8GHz to 18Ghz)**

### 1.3.5. IEEE802.11 g-Mode, channel 1&11, Band-Edge 20dBc



Date: 9.MAY.2011 16:38:19

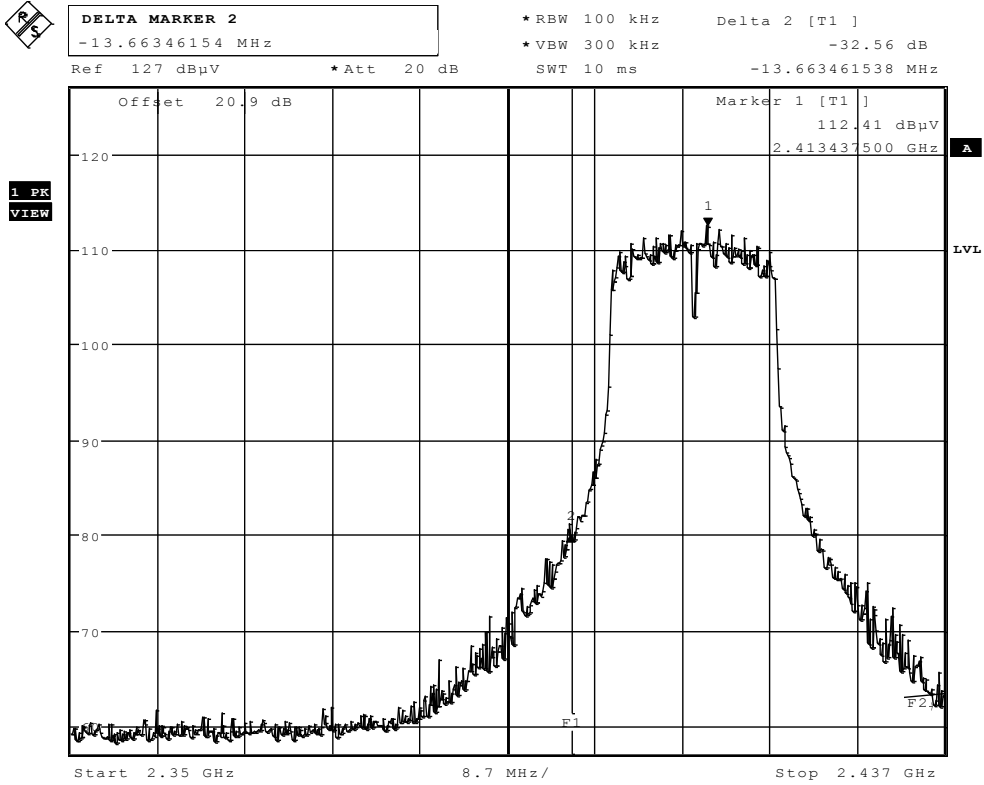
#### Band-Edge left, channel 1, g-Mode, 6Mbit



Date: 9.MAY.2011 16:36:14

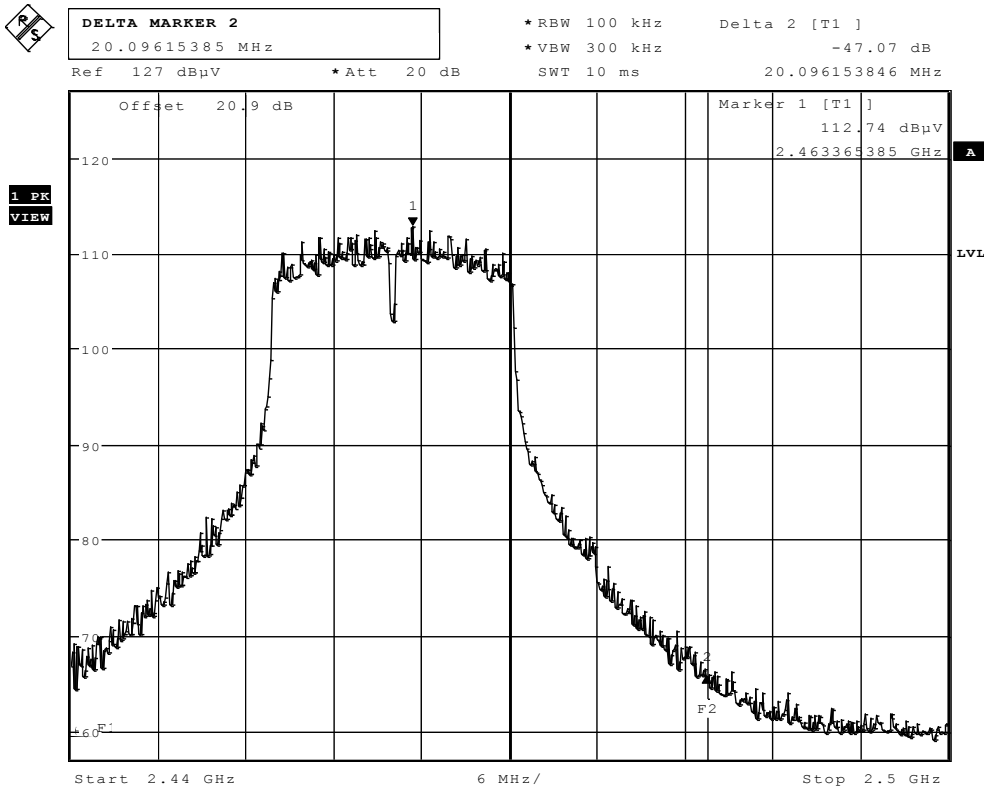
#### Band-Edge right, channel 11, g-Mode, 6Mbit





Date: 9.MAY.2011 16:41:00

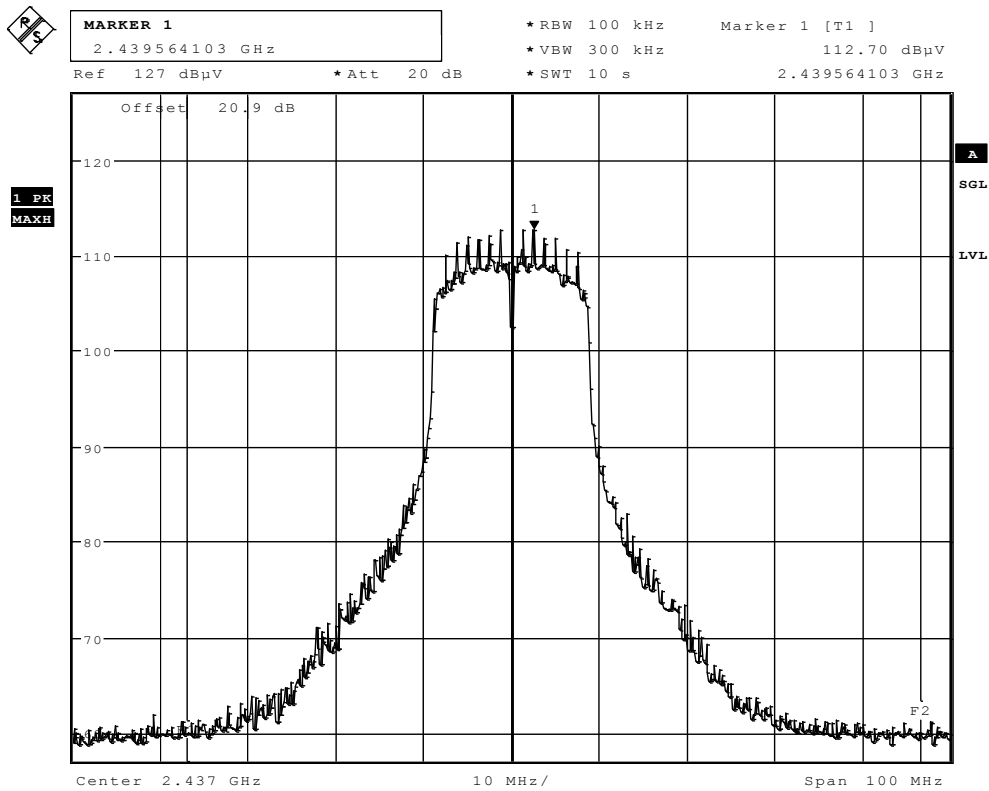
**Band-Edge left, channel 1, g-Mode, 54Mbit**



Date: 9.MAY.2011 16:33:52

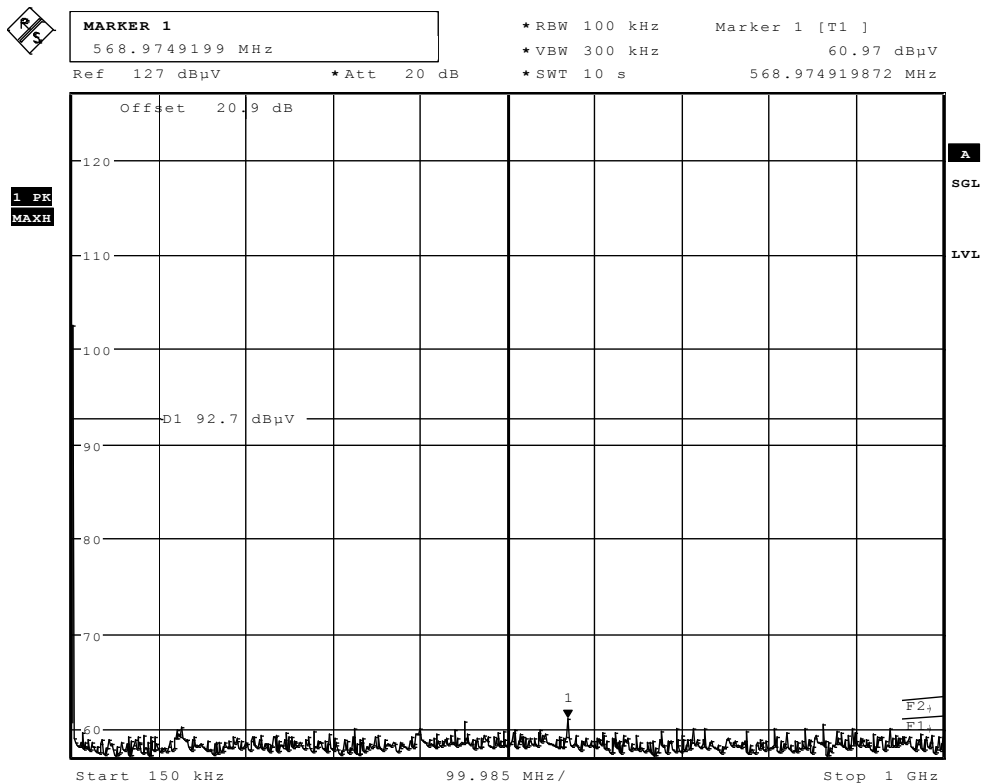
**Band-Edge right, channel 11, g-Mode, 54Mbit**

### 1.3.6. IEEE802.11 n-Mode, MCS0 long-guard Mode, channel 6



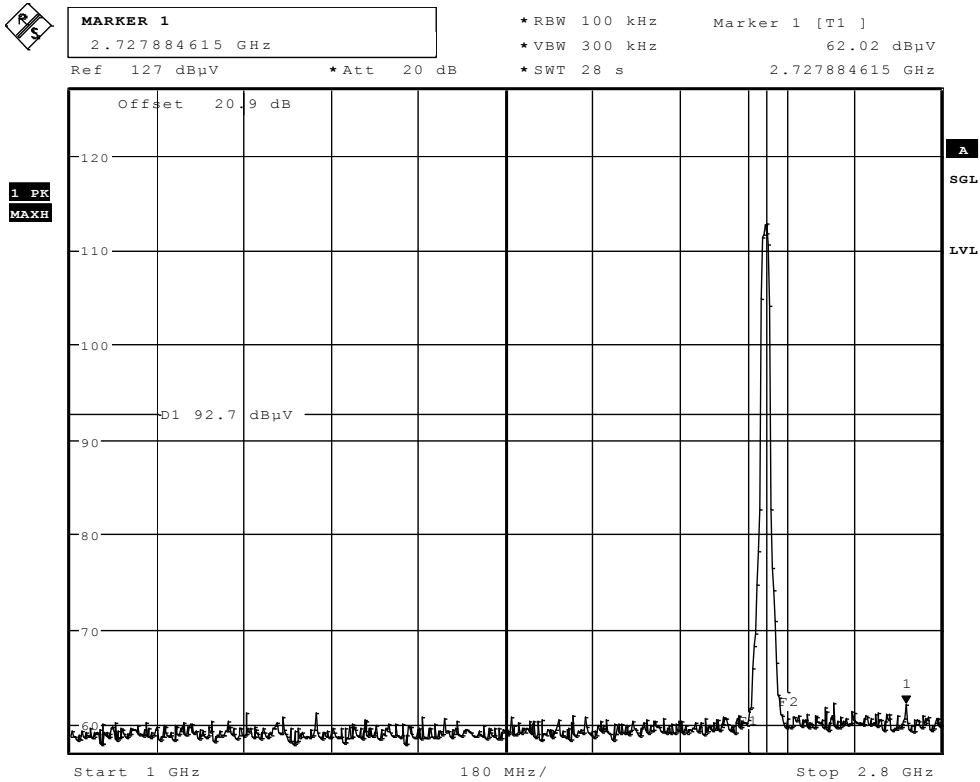
Date: 9.MAY.2011 16:51:06

### In-Band reference alue for channel 6, MCS0-long, n-Mode



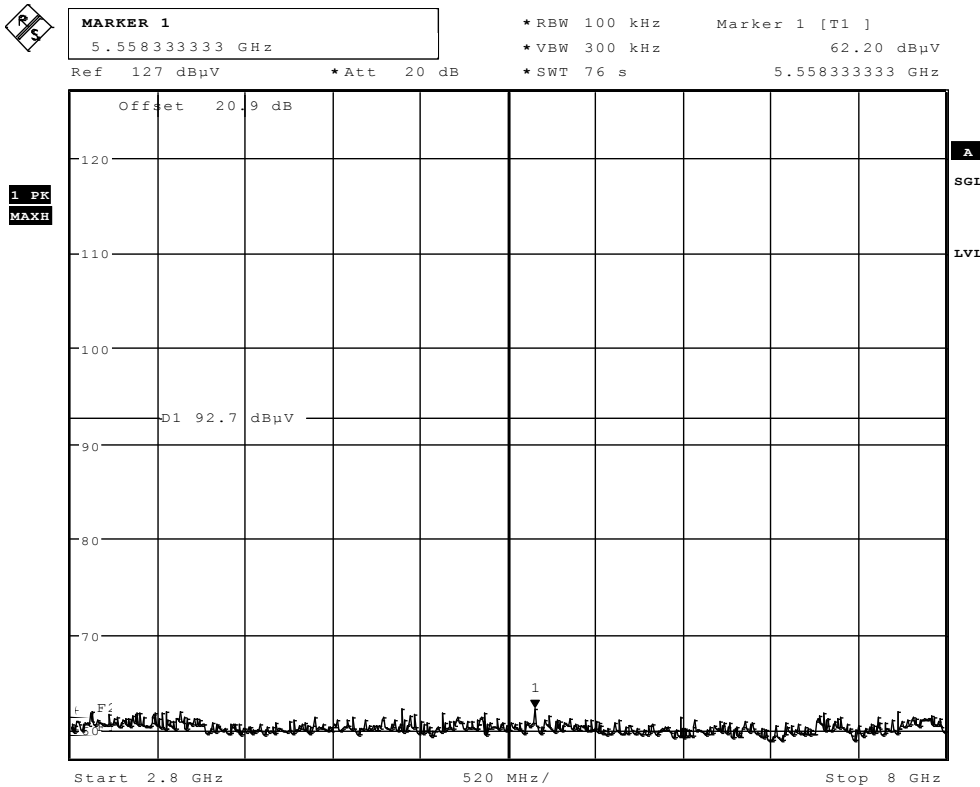
Date: 9.MAY.2011 16:52:32

### Sweep 1: Channel 6, MCS0, n-Mode



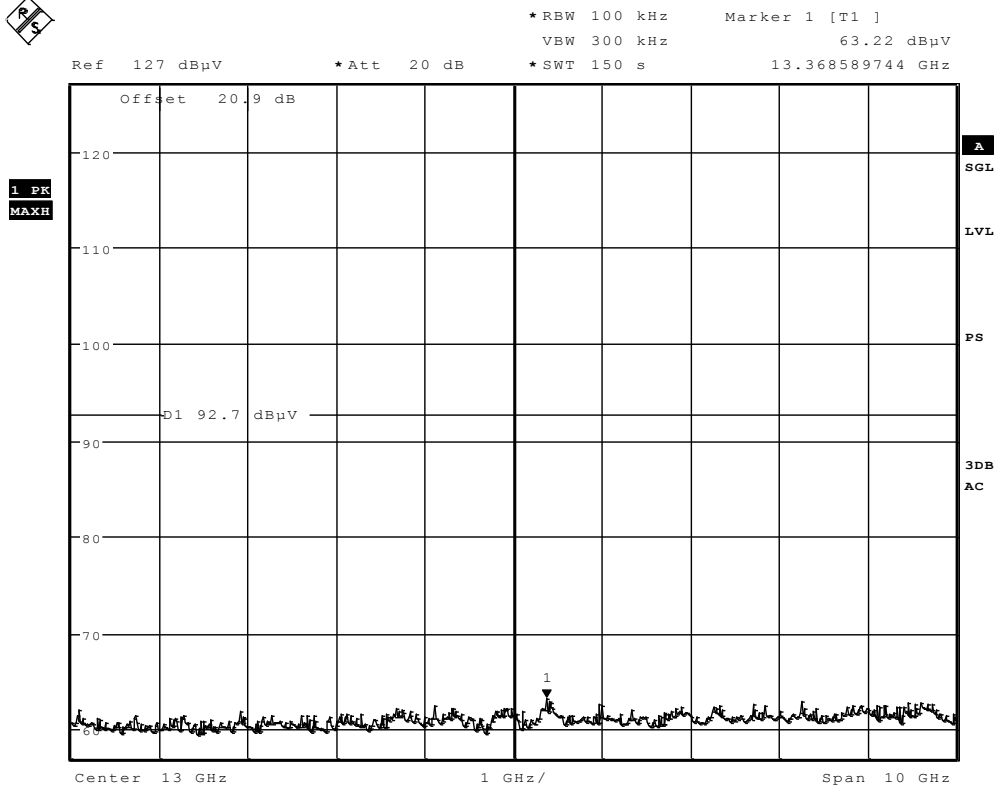
Date: 9.MAY.2011 16:53:55

**Sweep 2: Channel 6, MCS0, n-Mode**



Date: 9.MAY.2011 16:55:58

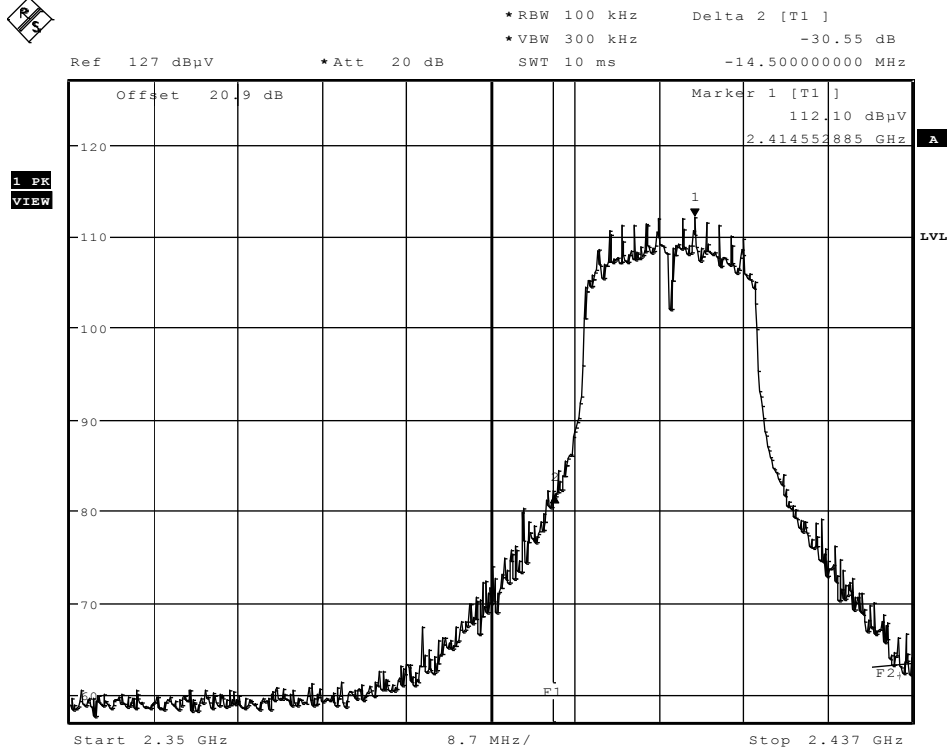
**Sweep 3: Channel 6, MCS0, n-Mode**



Date: 10.MAY.2011 10:11:35

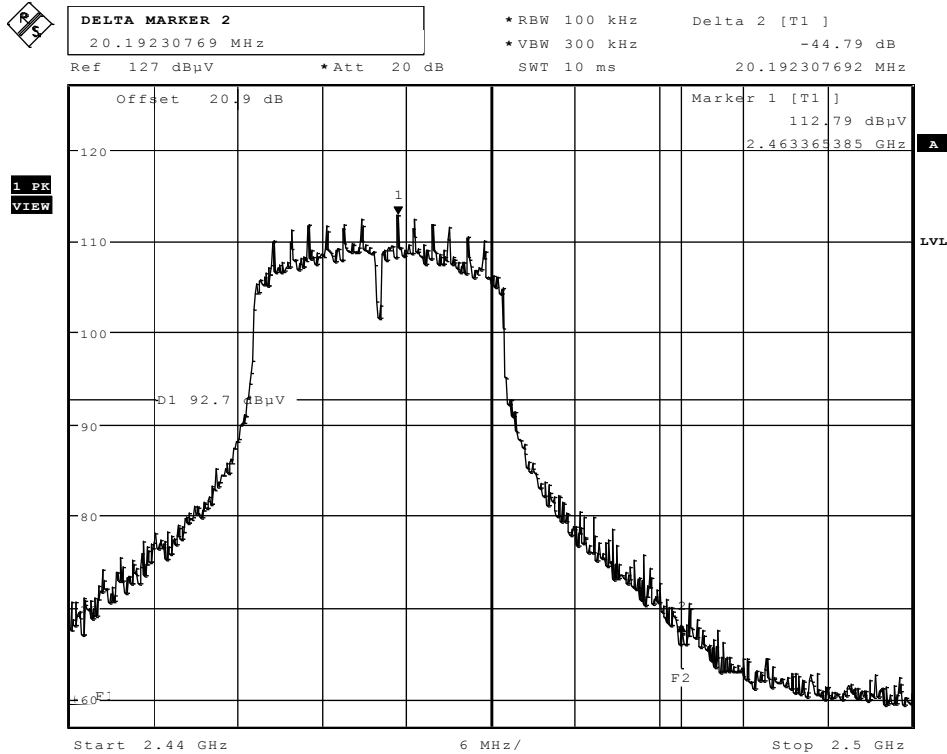
**Sweep 4: Channel 6, MCS0, n-Mode**

**1.3.7. IEEE802.11 n-Mode, MCS0 long-guard mode, channel 1&11, Band-Edge 20dBc**



Date: 9.MAY.2011 17:04:34

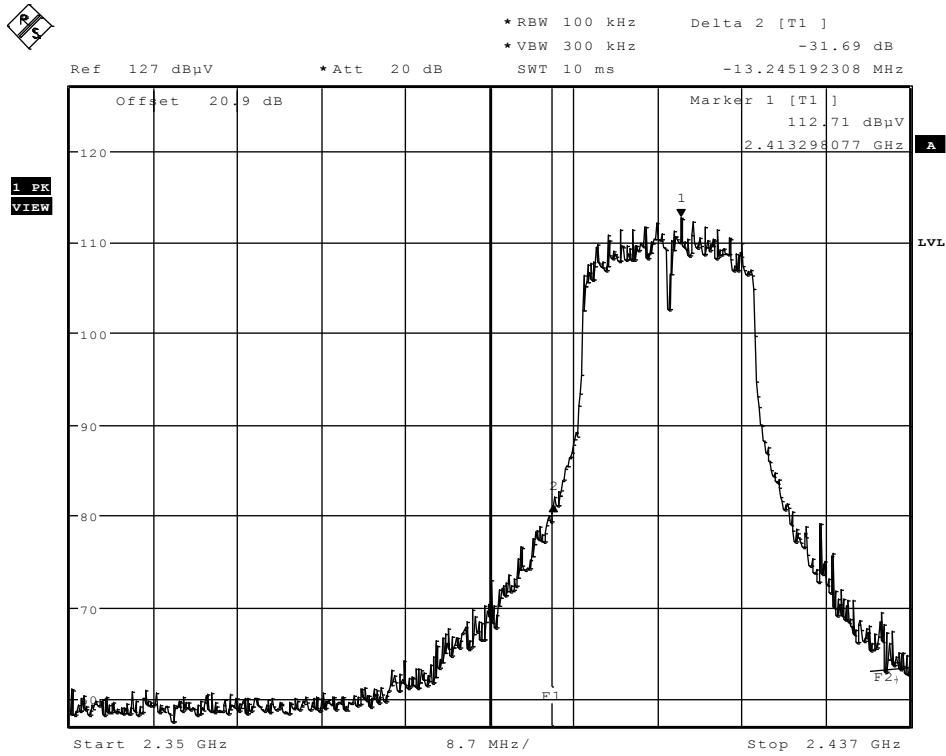
**Band-Edge left, channel 1, MCS0-long, n-Mode**



Date: 9.MAY.2011 17:02:13

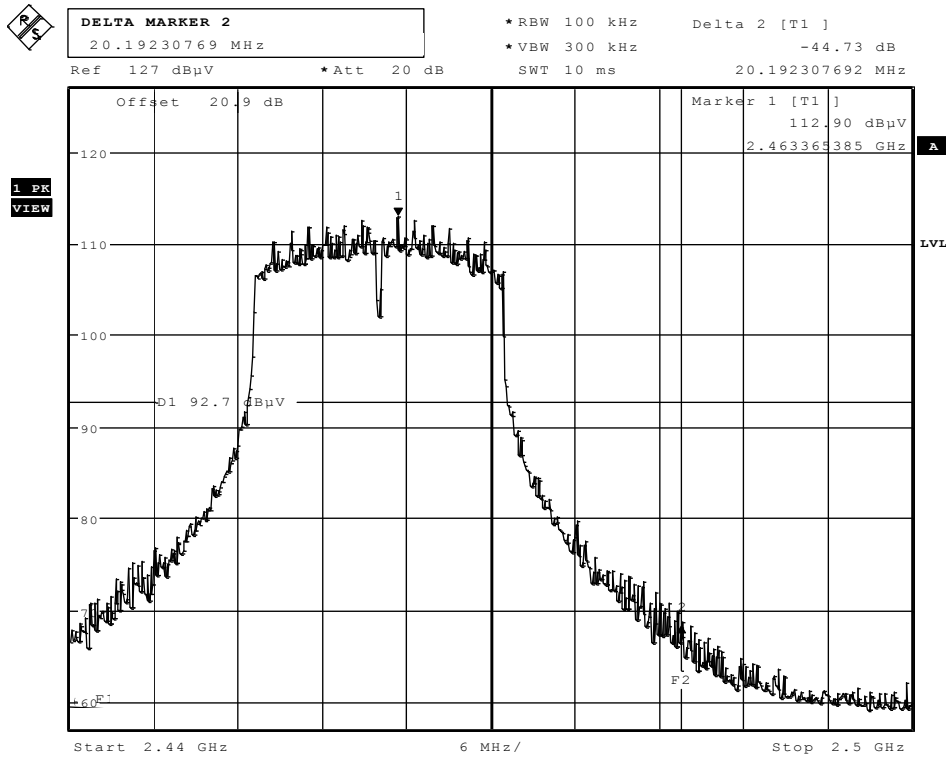
**Band-Edge right, channel 11, MCS0-long, n-Mode**

### 1.3.8. IEEE802.11 g-Mode, MCS7 long-guard mode, channel 1&11, Band-Edge 20dBc



Date: 9.MAY.2011 17:06:20

#### Band-Edge left, Channel 1



Date: 9.MAY.2011 17:00:32

#### Band-Edge right, channel 11

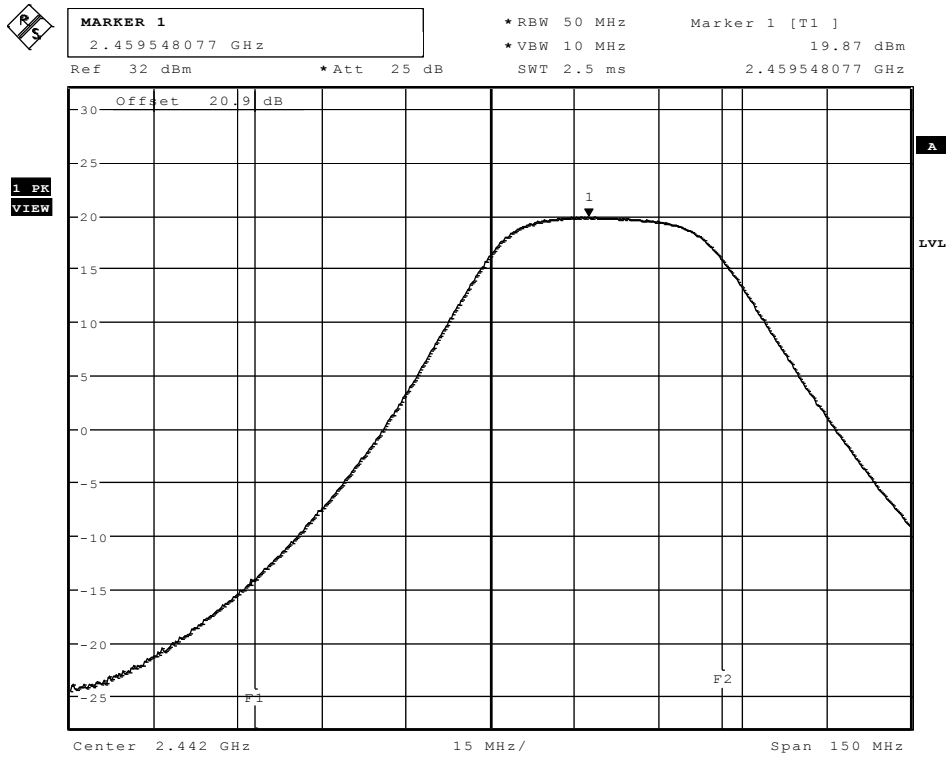
## 1.4. Maximum peak conducted power

Following table show measured values for the maximum peak conducted power for different modulation types and channels. Unit for power rate is dBm.

Modulation	Data Rate	Nominal Ch 1=2412MHz	Nominal Ch 6=2437MHz	Nominal Ch 11=2462MHz	Maximum value
DBPSK	1MBit	19,30	19,69	19,77	19,87
DQPSK	2MBit	19,13	19,53	<b>19,87</b>	
CCK/PBCC	5.5MBit	18,89	19,27	19,43	
CCK/PBCC	11MBit	18,75	19,29	19,61	
BPSK	6	24,35	24,42	24,19	24,64
	9	24,24	24,38	24,06	
QPSK	12	24,09	24,27	23,96	
	18	24,03	24,21	23,94	
16QAM	24	24,30	24,30	23,86	
	36	23,95	24,20	24,02	
64QAM	48	24,01	24,34	24,12	
	54	24,16	<b>24,64</b>	24,10	
<b>Long Guard</b>					
MCS0		24,32	<b>24,60</b>	24,02	24,60
MCS1		24,02	24,30	24,03	
MCS2		24,09	24,39	24,23	
MCS3		23,90	24,09	23,88	
MCS4		23,93	24,39	24,09	
MCS5		24,01	24,23	24,07	
MCS6		23,93	24,32	24,06	
MCS7		24,03	24,31	24,07	
<b>Short guard</b>					
MCS0		24,35	<b>24,53</b>	24,22	24,53
MCS1		24,03	24,43	23,97	
MCS2		24,06	24,18	24,09	
MCS3		23,93	24,13	23,99	
MCS4		23,97	24,10	23,89	
MCS5		23,98	24,11	23,93	
MCS6		23,99	24,23	23,93	
MCS7		23,85	24,24	24,03	

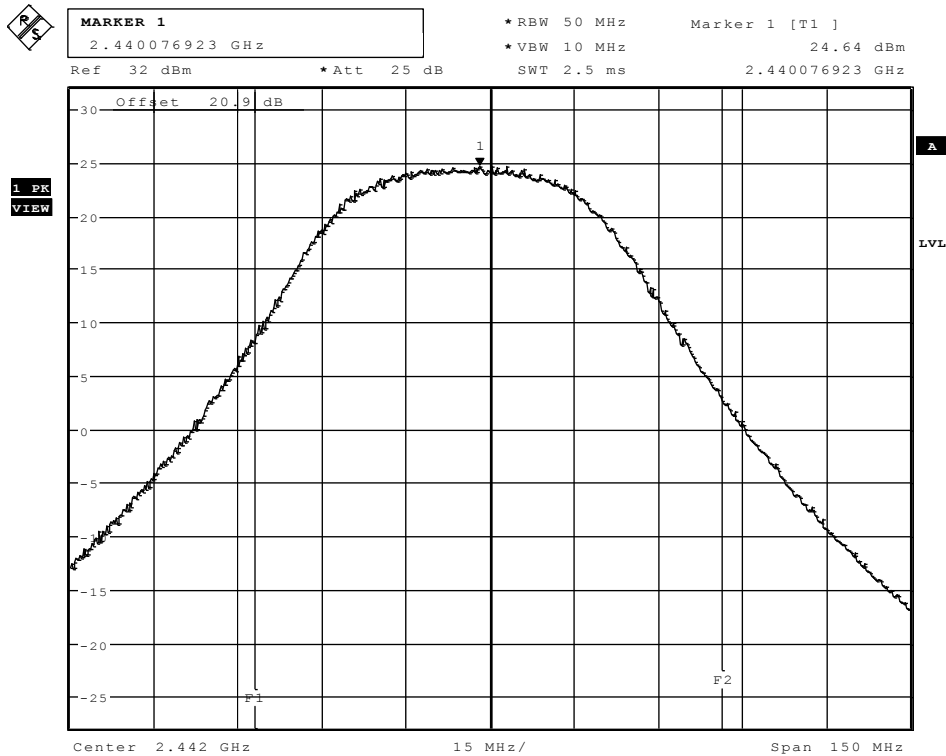
Maximum Value: 24.64 dBm = 291.07 mW

Below also some diagrams showing the maximum value for different modulation types:



Date: 9.MAY.2011 10:06:33

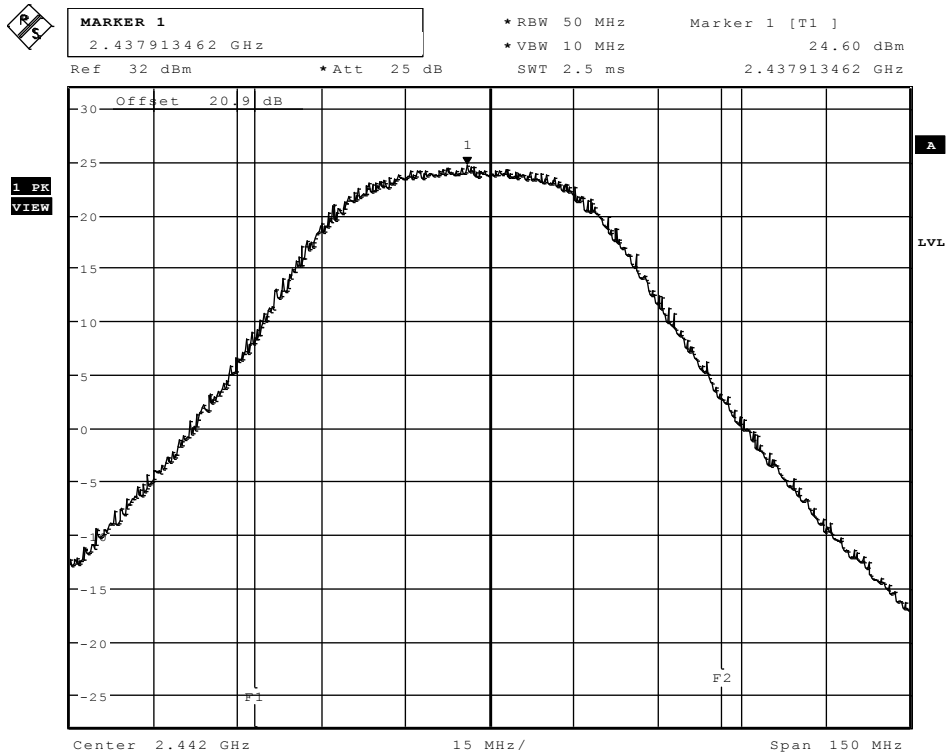
**DQPSK Modulation, 2MBit, Channel 11**



Date: 9.MAY.2011 10:24:00

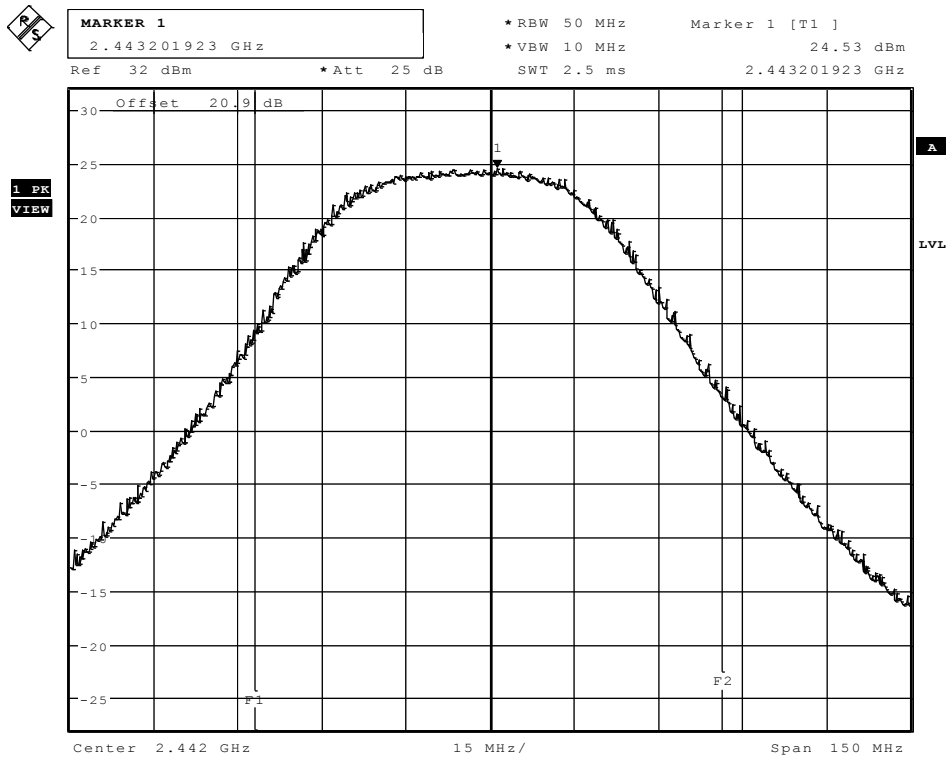
**BPSK Modulation, 54MBit, Channel 6 -> absolute maximum value between modulation/data rates**





Date: 9.MAY.2011 10:56:12

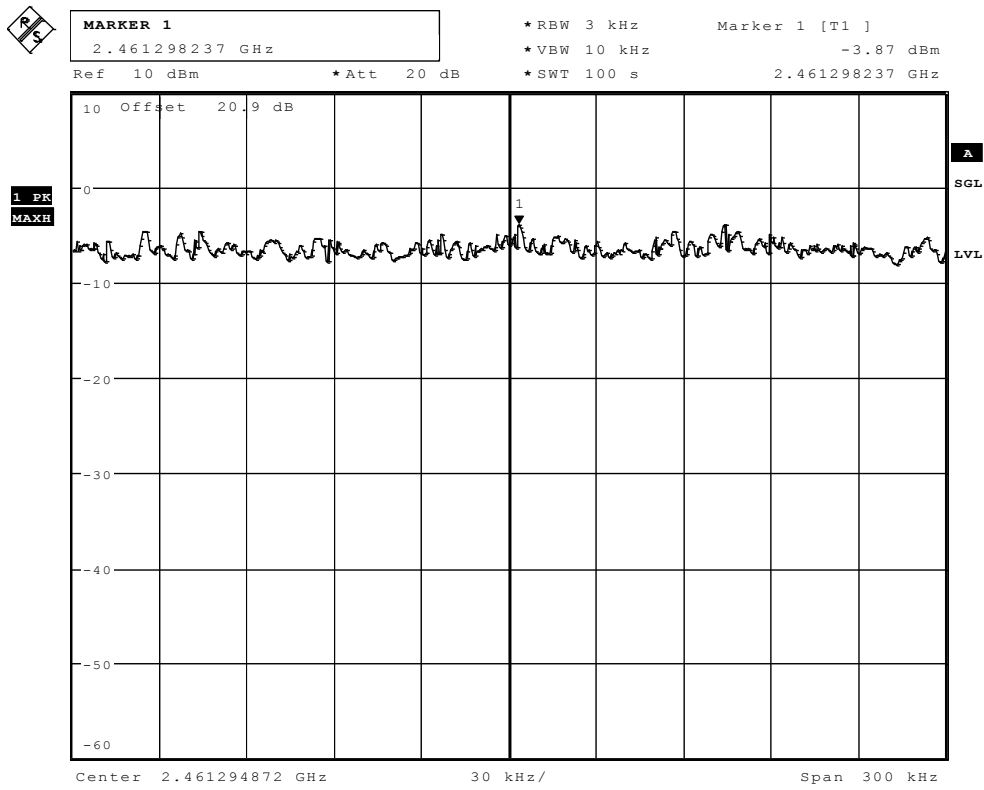
### MCS0, long-guard (OFDM), Channel 6



Date: 9.MAY.2011 11:44:41

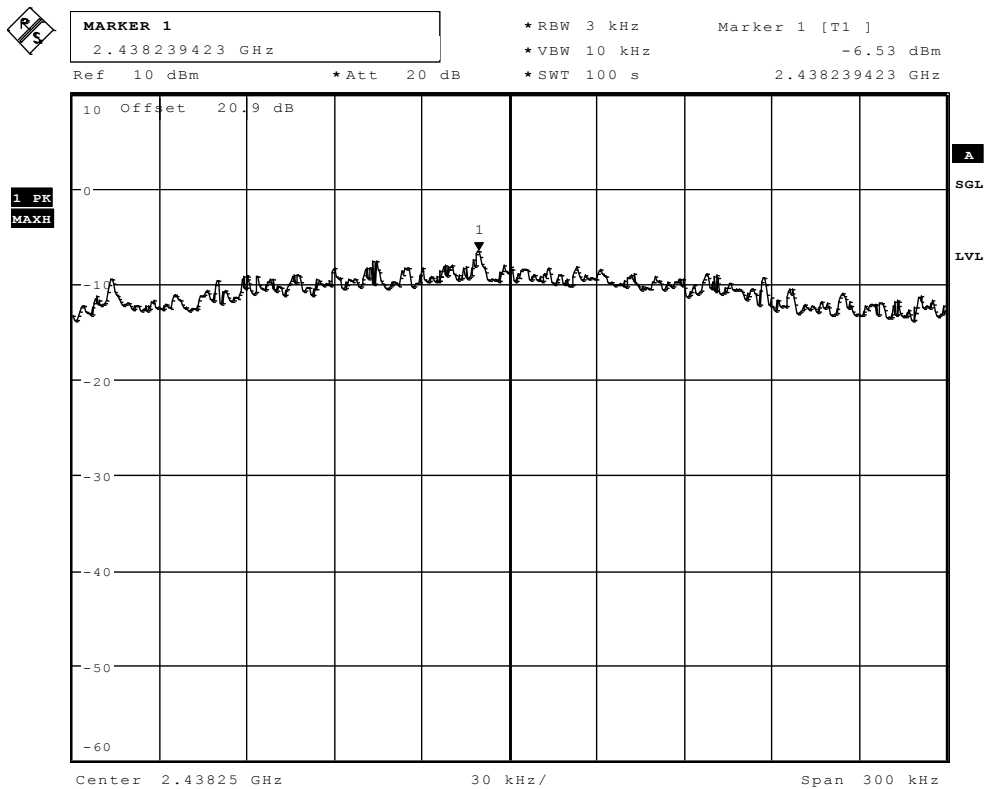
### MCS0, short-guard (OFDM), Channel 6

### 1.5. Power spectral density



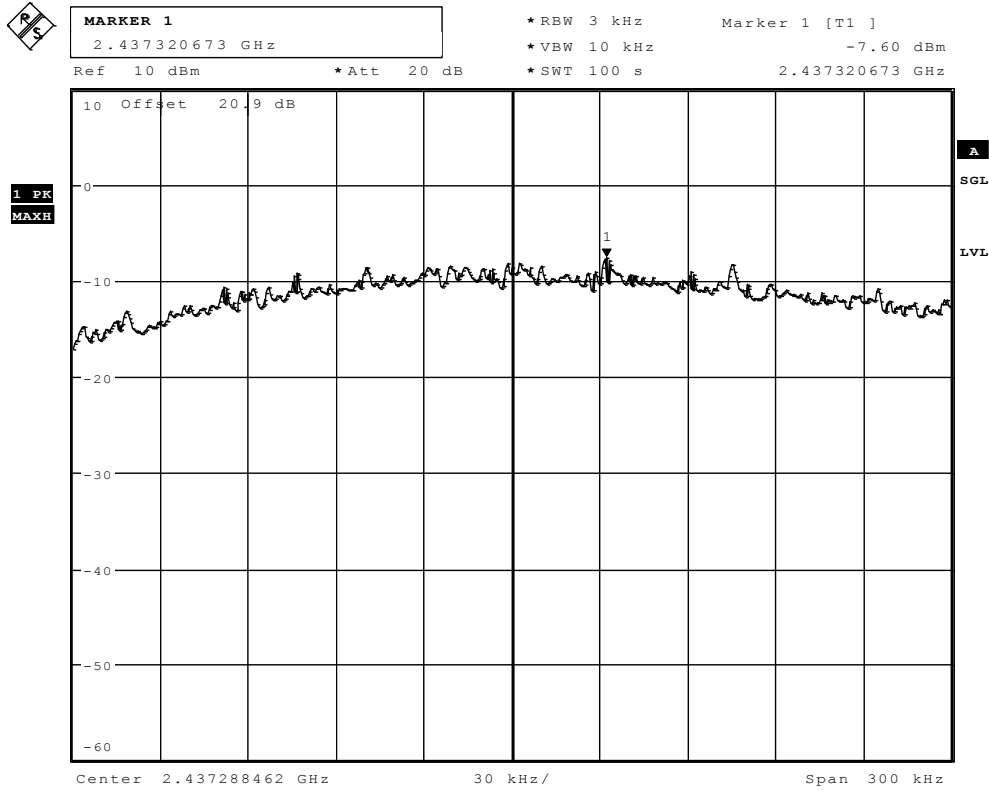
Date: 9.MAY.2011 13:13:22

#### DQPSK Modulation, 1MBit, Channel 11



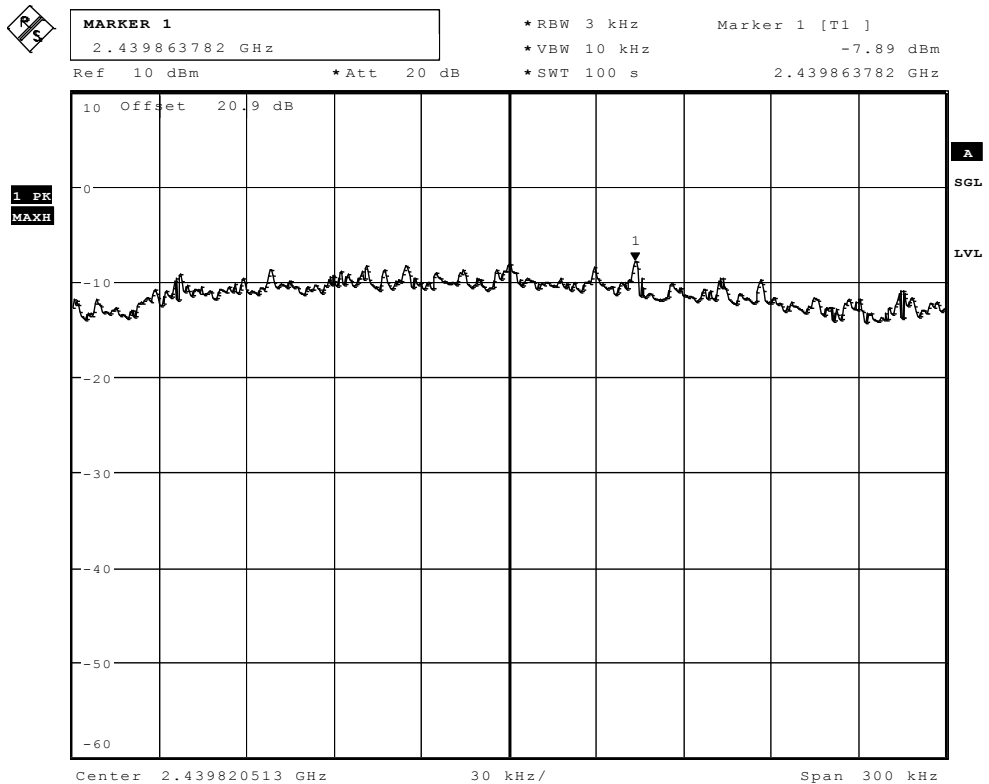
Date: 9.MAY.2011 13:33:35

#### BPSK Modulation, 6MBit, Channel 11



Date: 9.MAY.2011 13:51:54

**MCS0, long-guard (OFDM), Channel 6**



Date: 9.MAY.2011 14:04:15

**MCS0, short-guard (OFDM), Channel 6**

## 1.6. Conducted emissions on AC-mains

### 1.6.1. TX-Mode (§15.209/RSS-Gen.)

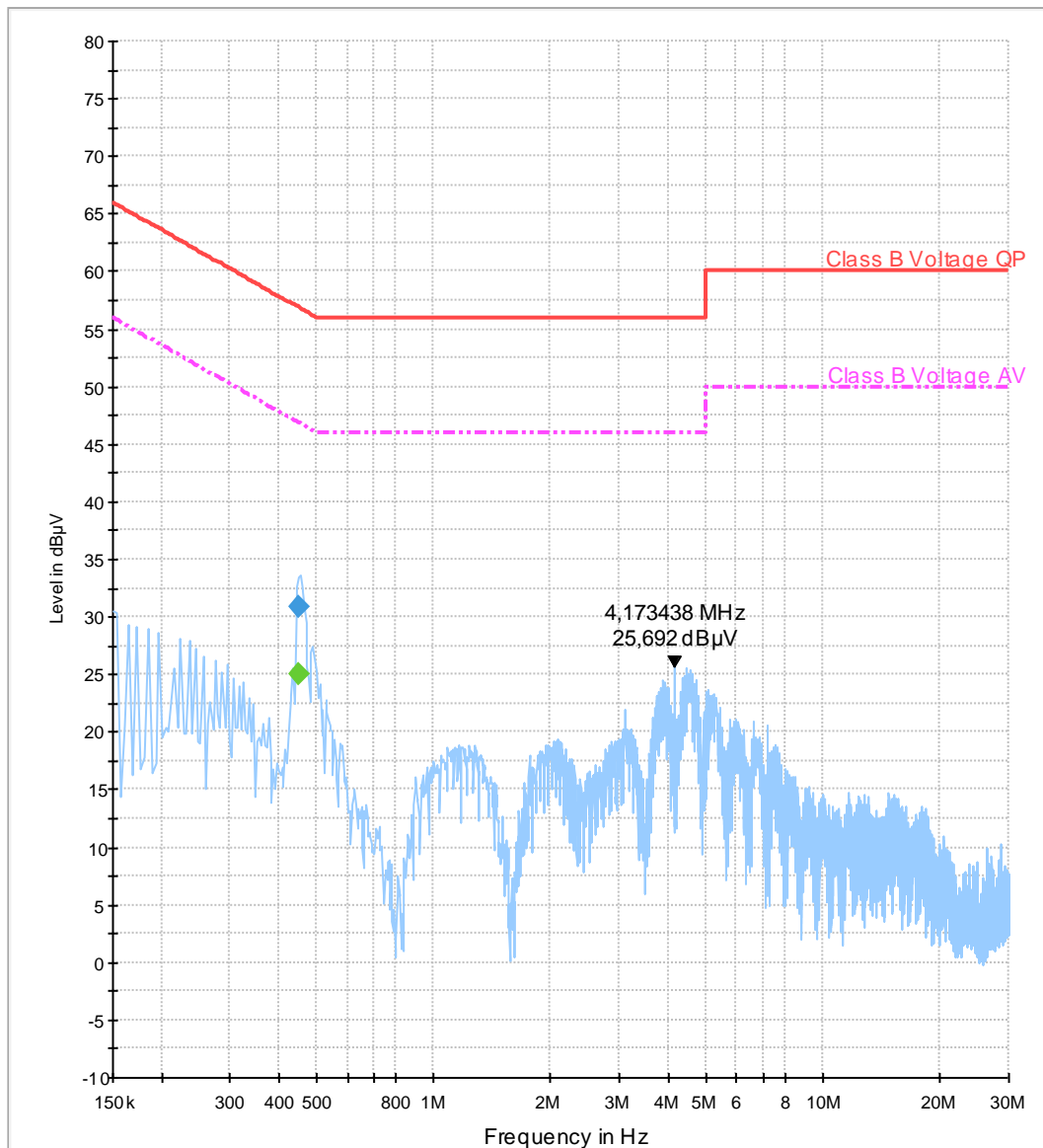
#### Diagram No. a\_1.3

Test Description:	Date: 17.05.2011	Page 1 of 2
Testspezifikation:	Conducted Voltage Measurement Class B	
Technical Data:	FCC 15.207	
Diagram:	Please see next page for detailed information	
Operator name:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode	
Report.- Nr.	Tas	
	2-20797620/11	
Operating mode:	WLAN_g mode, TX-on+Ping on LAN Router connected wireless to EUT [Max. Pwr: Ch6, 9 MBps]	
Measured on line:	Mains AC L1 and N	
Power during test:	110 V AC 60 Hz	

#### EUT Information

EUT Name:	AAD-3880110-BV(#CB5A1CHY8R)+ AC/DC Charger CAA-0002016-BV(#19318)+USB cable EC700(#19321)+ HS CCA-0004012 (#19788)
Manufacturer:	SEM

01\_Class B\_Voltage\_PK\_QPAV\_N\_L1



**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.452188	30.9	15000.0	9.000	GND	L1	0.0	26.0	56.8

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.452188	25.0	15000.0	9.000	GND	L1	0.0	21.8	46.8

Date: 17.05.2011 Page 2 of 2

**Technical Data of Measurements with R&S EMC32 V8.50.0****EMI Auto Test Template: 01\_Class B\_Voltage\_PK\_QPAV\_N\_L1**

Hardware Setup: ESH2-Z5  
 Measurement Type: 4 Line LISN  
 Frequency Range: 150 kHz - 30 MHz  
 Graphics Level Range: -10 dBµV - 80 dBµV

Preview Measurements:  
 Scan Test Template: 02\_Class B pre\_PK\_fast

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	61.035 Hz	PK+	200 Hz	0,00005 s	0 dB
150 kHz - 30 MHz	3.906 kHz	PK+	9 kHz	0,00005 s	0 dB

Receiver: [ESCS 30]

Data Reduction:  
 Limit Line #1: Class B Voltage QP  
 Limit Line #2: Class B Voltage AV  
 Peak Search: 6 dB , Maximum Results: 10  
 Subrange Maxima: 50 Subranges , Maxima per Subrange: 2  
 Acceptance Offset: -13 dB  
 Maximum Number of Results: 30  
 After Data Reduction: Interactive data reduction

Frequency Zoom:  
 Zoom Scan Template: 08\_Class B maxZoom\_PK100mS

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	5 kHz	PK+	200 Hz	0,1 s	0 dB
150 kHz - 30 MHz	5 kHz	PK+	9 kHz	0,1 s	0 dB

Receiver: [ESCS 30]

Final Measurements:  
 Template for Single Meas.: 07\_Class B fin AV QP

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	4.5 kHz	QPK; CAV	200 Hz	15 s	0 dB
150 kHz - 30 MHz	4.5 kHz	QPK; CAV	9 kHz	15 s	0 dB

Receiver: [ESCS 30]

Report Settings:  
 Report Template: Ctc\_Standard\_class\_B  
 Create Electronic Report: RTF PDF  
 Document Name: EMI Report

Actions:  
 Test stop  
 Notify: "End of Test"

### 1.6.2. RX-Mode (§15.107 Class B/RSS-Gen)

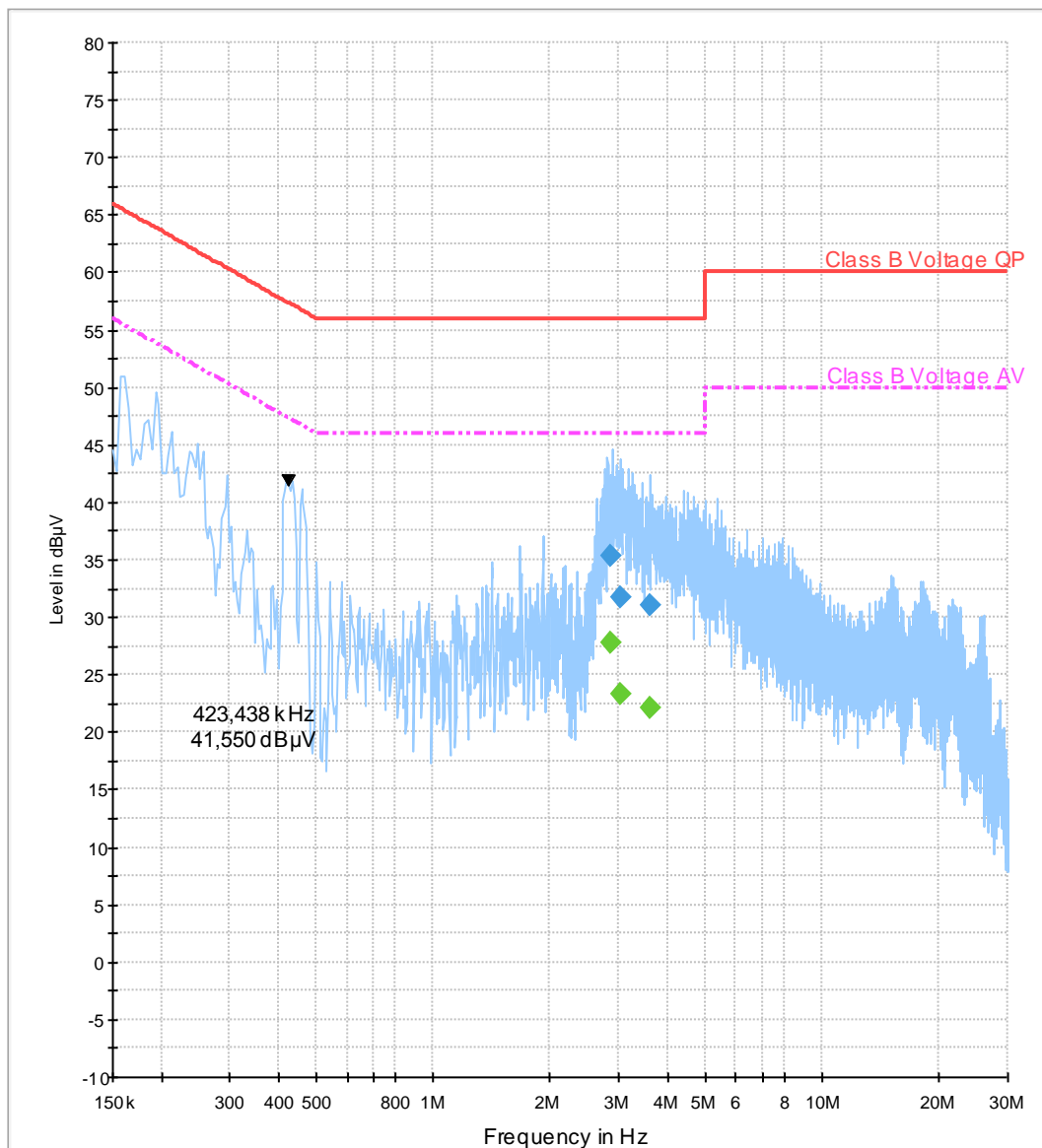
#### Diagram No. a\_1.4

Test Description:	Date: 17.05.2011	Page 1 of 2
Testspezifikation:	Conducted Voltage Measurement Class B	
Technical Data:	FCC 15.107, class B	
Diagram:	Please see next page for detailed information	
Operator name:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode	
Report.- Nr.	Tas 2-20797620/11	
Operating mode:	WLAN_g mode RX	
Measured on line:	Mains AC L1 and N	
Power during test:	110 V AC 60 Hz	

#### EUT Information

EUT Name:	AAD-3880110-BV(#CB5A1CHY8R)+ AC/DC Charger CAA-0002016-BV(#19318)+USB cable EC700(#19321)+ HS CCA-0004012 (#19788)
Manufacturer:	SEM

01\_Class B\_Voltage\_PK\_QPAV\_N\_L1



**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.869688	35.4	15000.0	9.000	GND	L1	0.1	20.6	56.0
3.020313	31.8	15000.0	9.000	GND	L1	0.1	24.2	56.0
3.621719	31.0	15000.0	9.000	GND	L1	0.0	25.0	56.0

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.869688	27.7	15000.0	9.000	GND	L1	0.1	18.3	46.0
3.020313	23.2	15000.0	9.000	GND	L1	0.1	22.8	46.0
3.621719	22.1	15000.0	9.000	GND	L1	0.0	23.9	46.0

Date: 17.05.2011 Page 2 of 2

**EMI Auto Test Template: 01\_Class B\_Voltage\_PK\_QPAV\_N\_L1**

Hardware Setup: ESH2-Z5  
 Measurement Type: 4 Line LISN  
 Frequency Range: 150 kHz - 30 MHz  
 Graphics Level Range: -10 dBµV - 80 dBµV

Preview Measurements:  
 Scan Test Template: 02\_Class B\_pre\_PK\_fast

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	61.035 Hz	PK+	200 Hz	0,00005 s	0 dB
150 kHz - 30 MHz	3.906 kHz	PK+	9 kHz	0,00005 s	0 dB

Receiver: [ESCS 30]

Data Reduction:  
 Limit Line #1: Class B Voltage QP  
 Limit Line #2: Class B Voltage AV  
 Peak Search: 6 dB, Maximum Results: 10  
 Subrange Maxima: 50 Subranges, Maxima per Subrange: 2  
 Acceptance Offset: -13 dB  
 Maximum Number of Results: 30  
 After Data Reduction: Interactive data reduction

Frequency Zoom:  
 Zoom Scan Template: 08\_Class B\_maxZoom\_PK100mS

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	5 kHz	PK+	200 Hz	0,1 s	0 dB
150 kHz - 30 MHz	5 kHz	PK+	9 kHz	0,1 s	0 dB

Receiver: [ESCS 30]

Final Measurements:  
 Template for Single Meas.: 07\_Class B\_fin\_AV\_QP

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	4.5 kHz	QPK; CAV	200 Hz	15 s	0 dB
150 kHz - 30 MHz	4.5 kHz	QPK; CAV	9 kHz	15 s	0 dB

Receiver: [ESCS 30]

Report Settings:  
 Report Template: Ctc\_Standard\_class\_B  
 Create Electronic Report: RTF PDF  
 Document Name: EMI Report

Actions:  
 Test stop  
 Notify: "End of Test"

## 1.7. Radiated field strength (15.209/RSS-Gen.)

### 1.7.1. Radiated magnetic field strength measurements (f<30MHz)

#### 1.7.1.1. Radiated magnetic field strength measurements (f<30MHz), b-Mode 11MBit

## Diagram No. a\_3.11

### Common Information

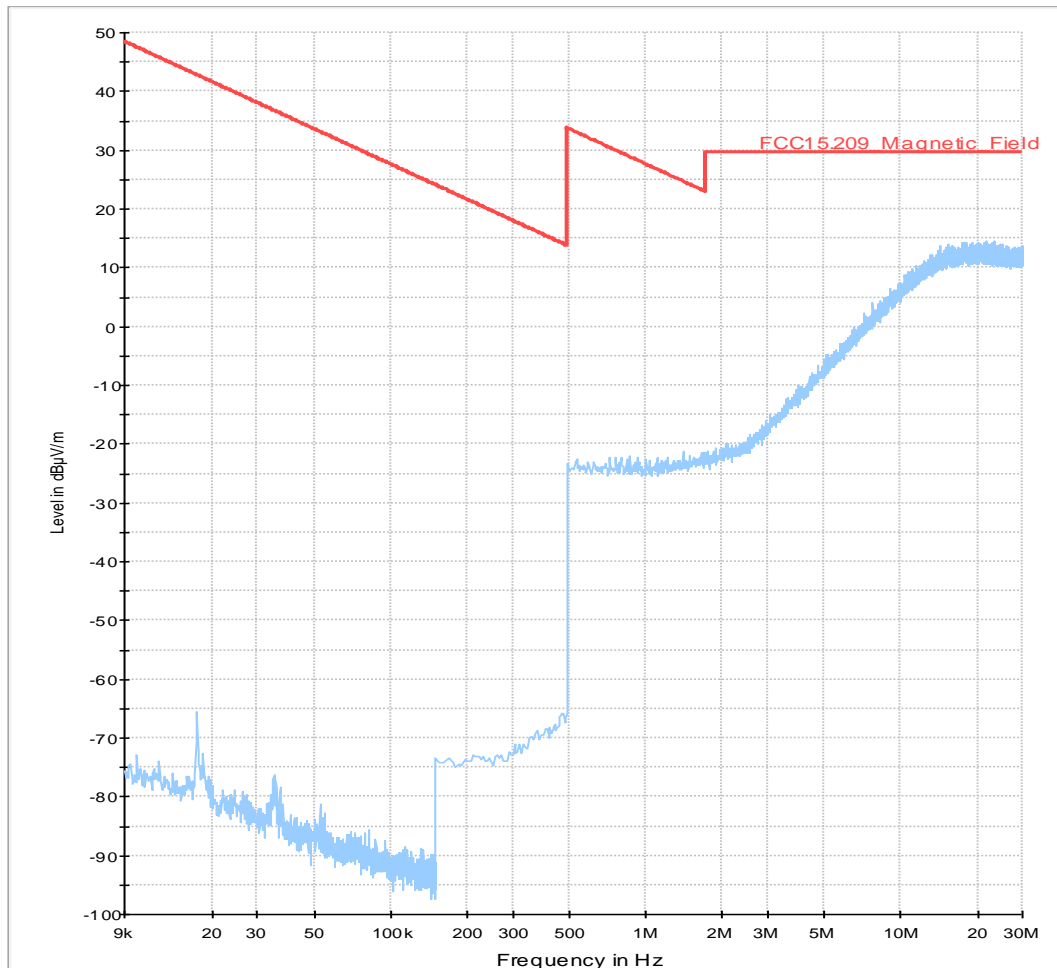
Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	lph
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Operating conditions:	TX-on CHANNEL 1 (WLANb, 11 Mbps)

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	RAD#1

FCC15.209\_magn hor+vert



EMI Auto Test Template: FCC15.209\_magn hor+vert



## Diagram No. a\_3.12

### Common Information

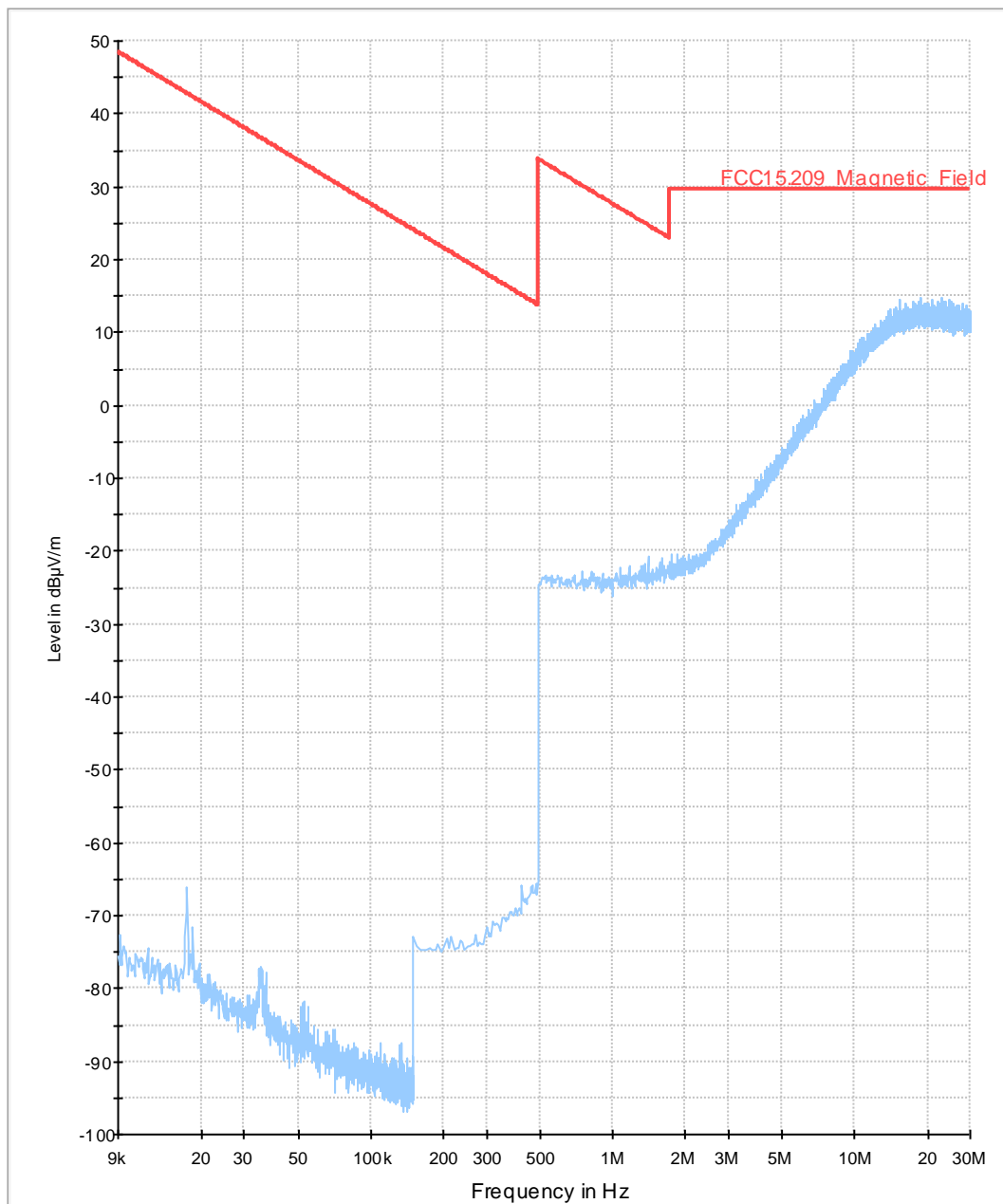
Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	lph
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Operating conditions:	TX-on CHANNEL 11 (WLANb, 11 Mbps)

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	RAD#1

FCC15.209\_magn hor+vert



1.7.1.2. Radiated magnetic field strength measurements (f<30MHz), g-Mode 6MBit

Diagram No. a\_3.13

Common Information

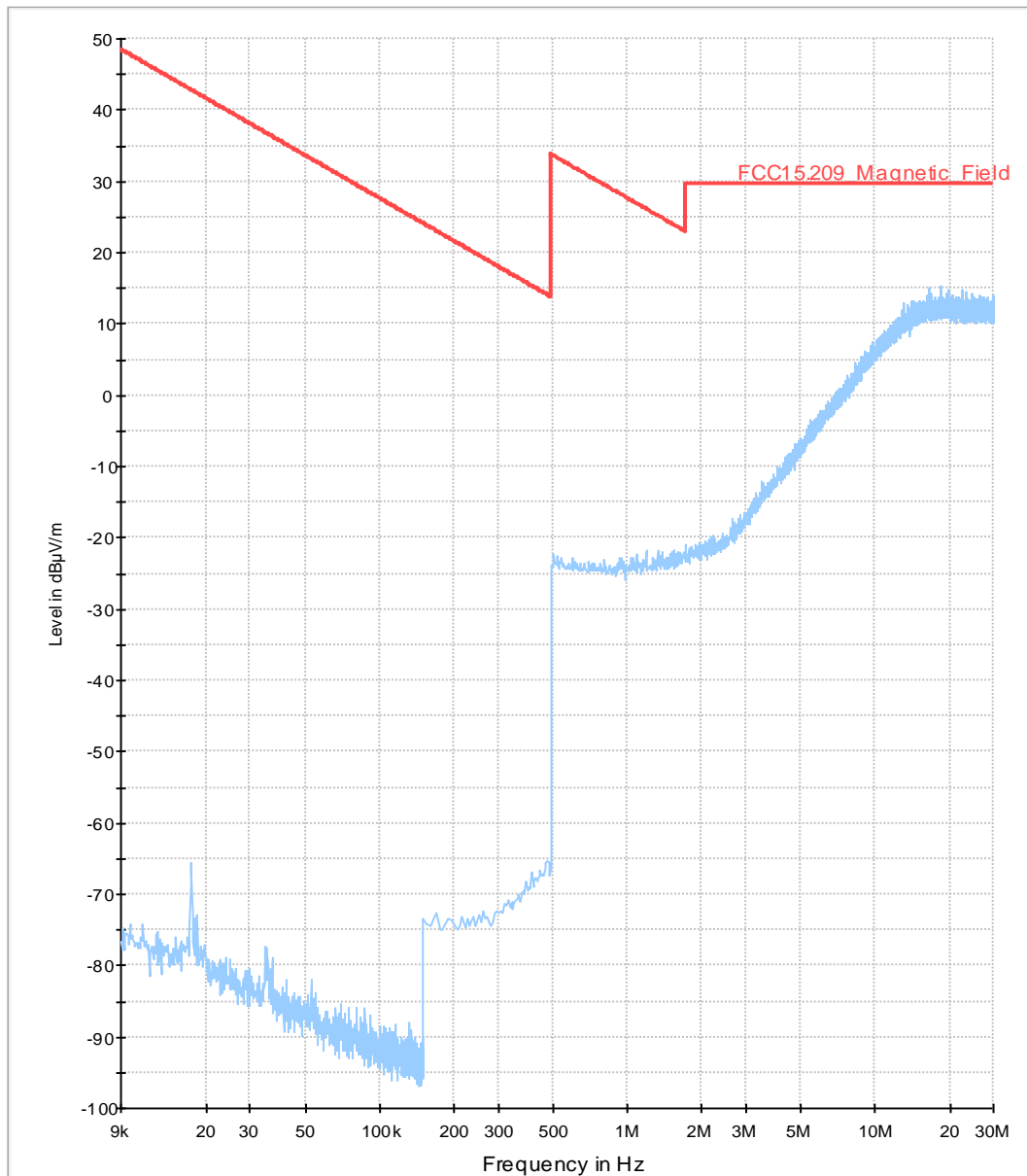
Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	Iph
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Operating conditions:	TX-on CHANNEL 1 (WLANg, 54 Mbps)

EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	RAD#1

FCC15.209\_magn hor+vert



## Diagram No. a\_3.14

### Common Information

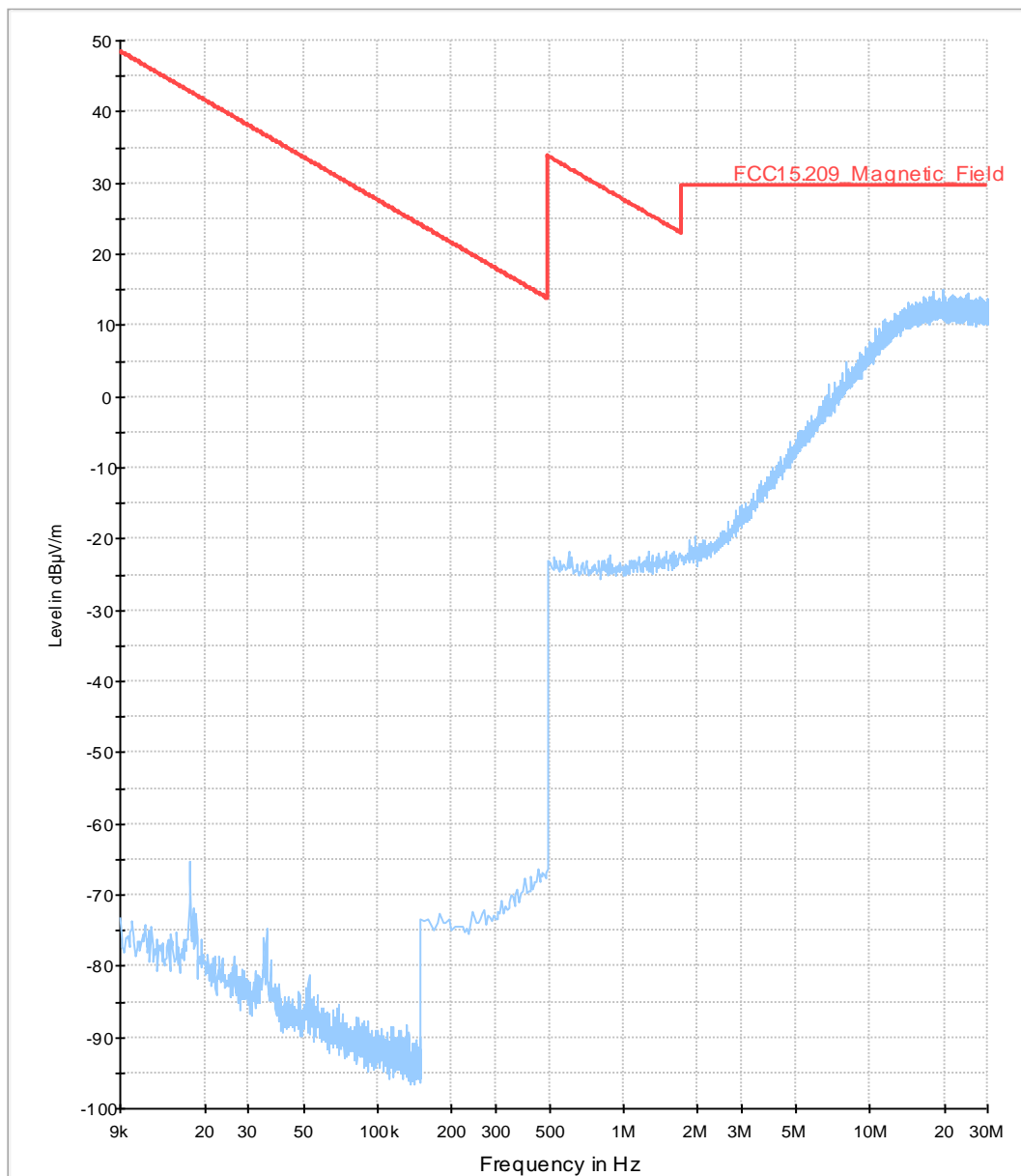
Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	lph
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Operating conditions:	TX-on CHANNEL 11 (WLANg, 54 Mbps)

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	RAD#1

FCC15.209\_magn hor+vert



EMI Auto Test Template: FCC15.209\_magn hor+vert

1.7.1.3. Radiated magnetic field strength measurements (f<30MHz), n-Mode MCS0-long

Diagram No. a\_3.15

Common Information

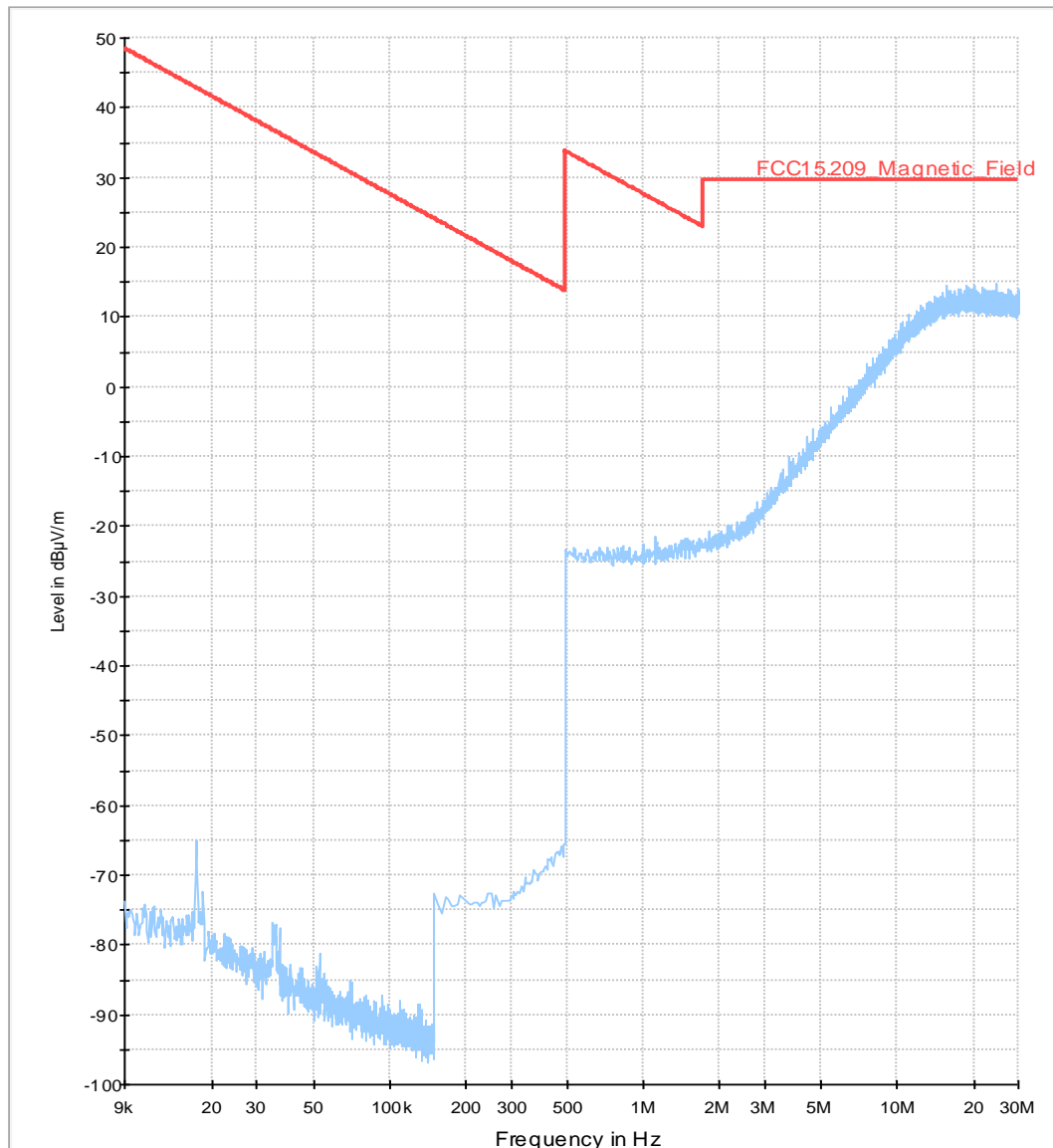
Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	Iph
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Operating conditions:	TX-on CAHNNEL 1 (WLANn_long, MCS0 Mbps, OFDM)

EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	RAD#1

FCC15.209\_magn hor+vert



EMI Auto Test Template: FCC15.209\_magn hor+vert

## Diagram No. a\_3.16

### Common Information

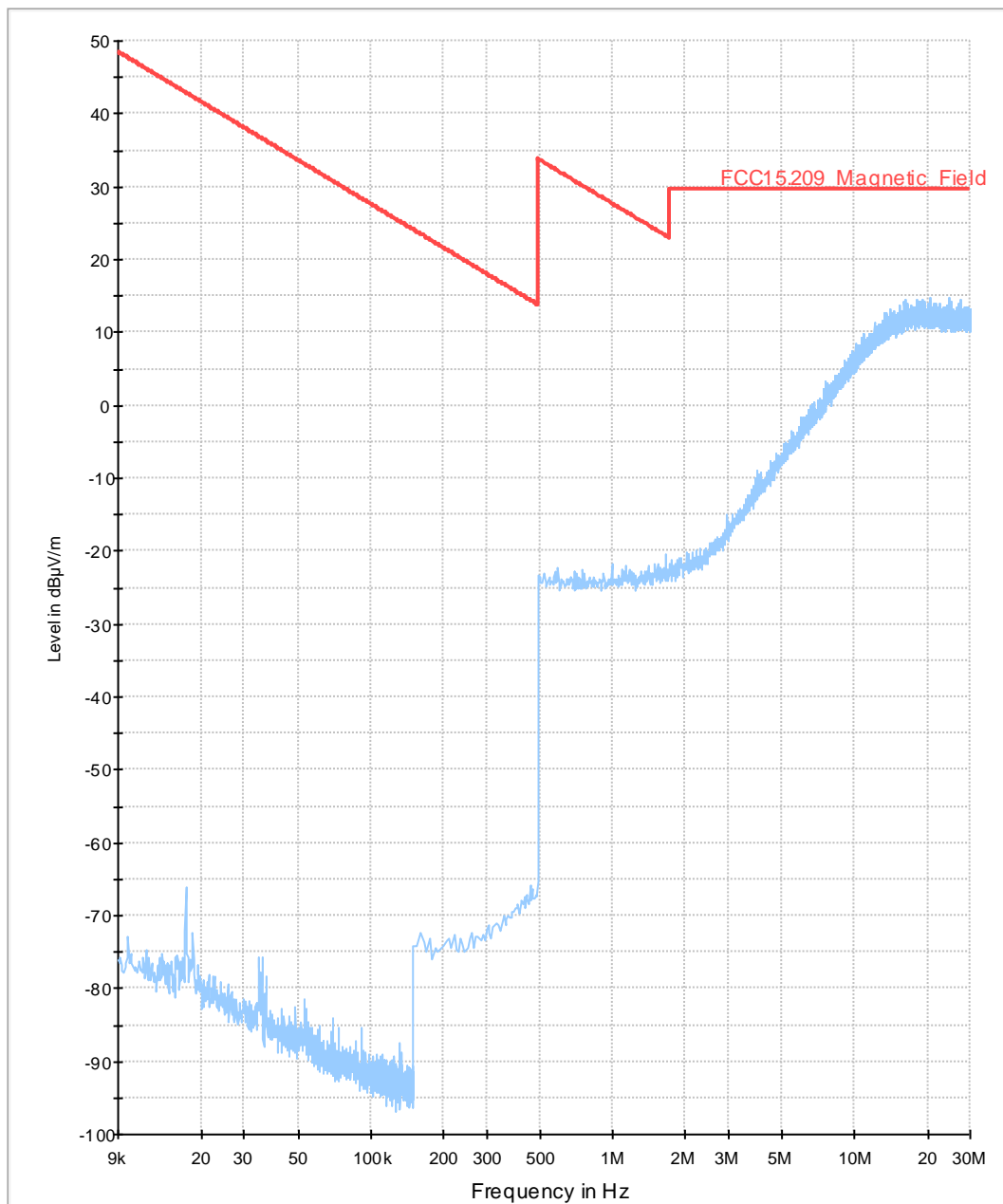
Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	90° during pre-scan
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	lph
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Operating conditions:	TX-on CAHNNEL 11 (WLANn_Long, MCS0 Mbps, OFDM)

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	RAD#1

FCC15.209\_magn hor+vert



**1.7.2. Radiated field strength (30MHz < f < 1GHz)**

**1.7.2.1. Radiated field strength (30MHz < f < 1GHz), b-Mode 11MBit**

**Diagram No. a\_2.01**

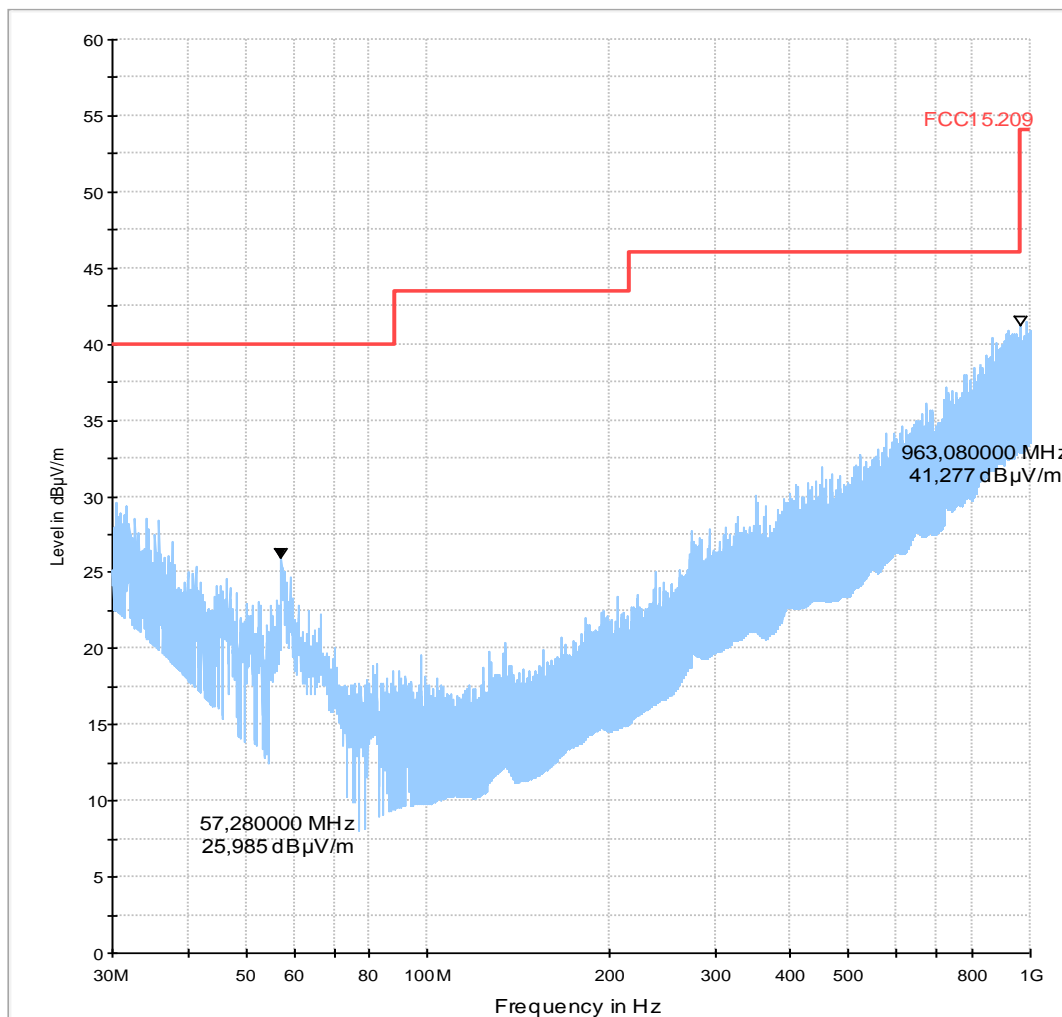
**Common Information**

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CHANNEL 1 (WLANb, 11Mbps, QPSK)
Power during tests:	full loaded batteries

**EUT Information**

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_kipp



EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_kipp

## Diagram a\_2.02

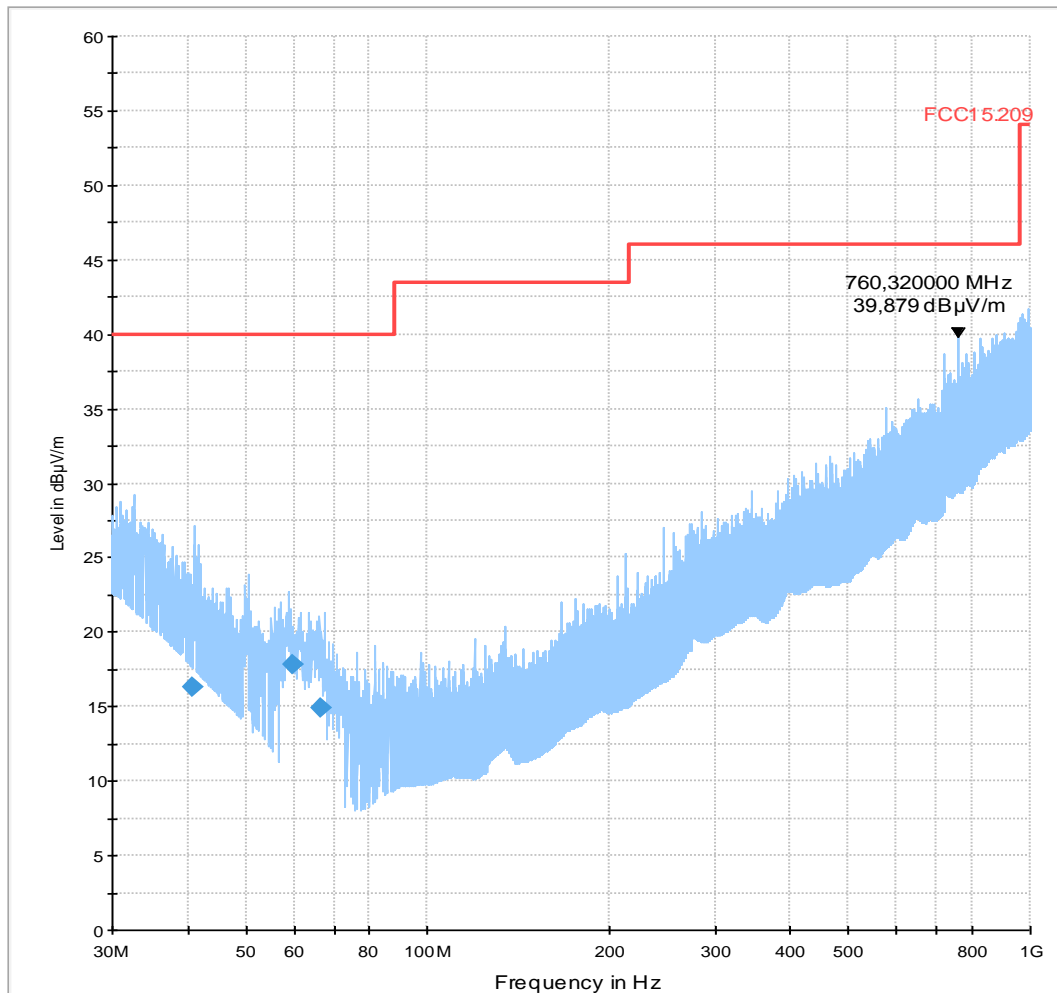
### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CHANNEL 6 (WLANb, 11Mbps, QPSK)
Power during tests:	full loaded batteries

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_kipp



### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
40.870000	16.4	1000.0	120.000	186.0	H	151.0	90.0	17.0	23.60	40.00
59.690000	17.9	1000.0	120.000	120.0	V	88.0	90.0	9.0	22.10	40.00
66.390000	14.9	1000.0	120.000	182.0	V	97.0	90.0	7.1	25.10	40.00

EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_kipp

## Diagram a\_2.03

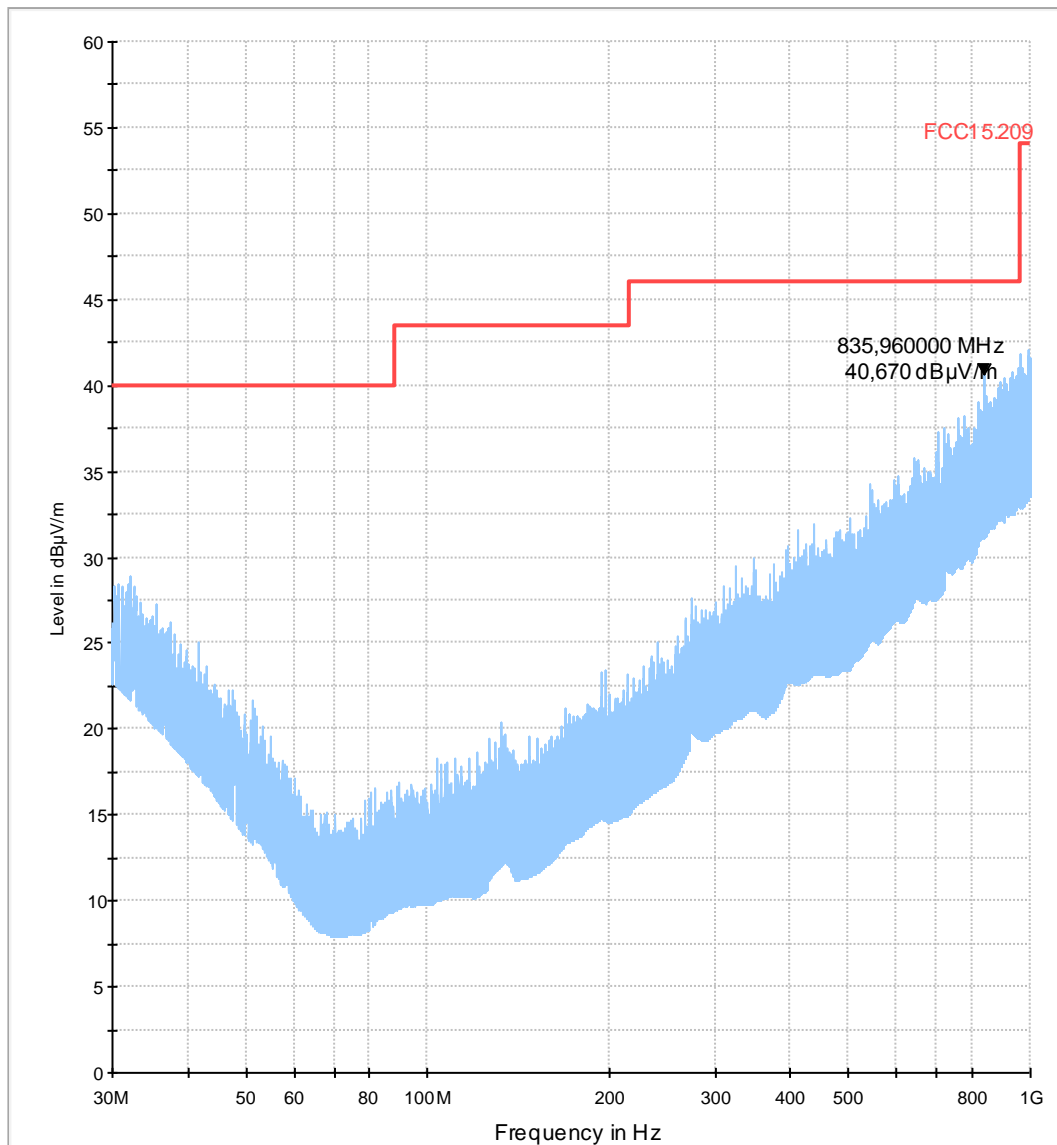
### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CAHNNEL 11 (WLANb, 11Mbps, QPSK)
Power during tests:	full loaded batteries

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_kipp



EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_kipp



1.7.2.2. Radiated field strength (30MHz < f < 1GHz), g-Mode 54MBit

Diagram No. a\_2.05

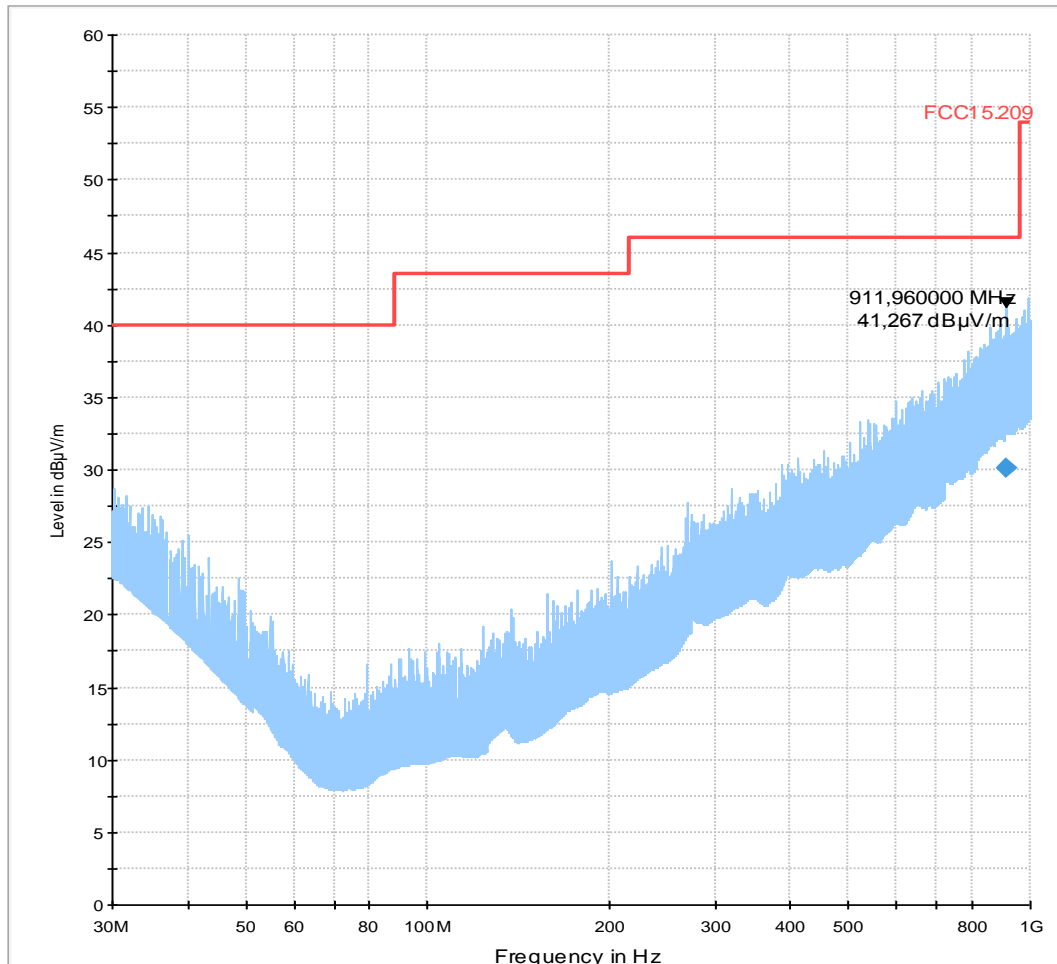
Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CAHNNEL 1 (WLANg, 54Mbps, 64QAM)
Power during tests:	full battery
Comment 1:	EUT position horizontal

EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_KP0



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
912.630000	30.1	1000.0	120.000	100.0	H	226.0	26.6	15.90	46.00

EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_KP0

## Diagram No. a\_2.06

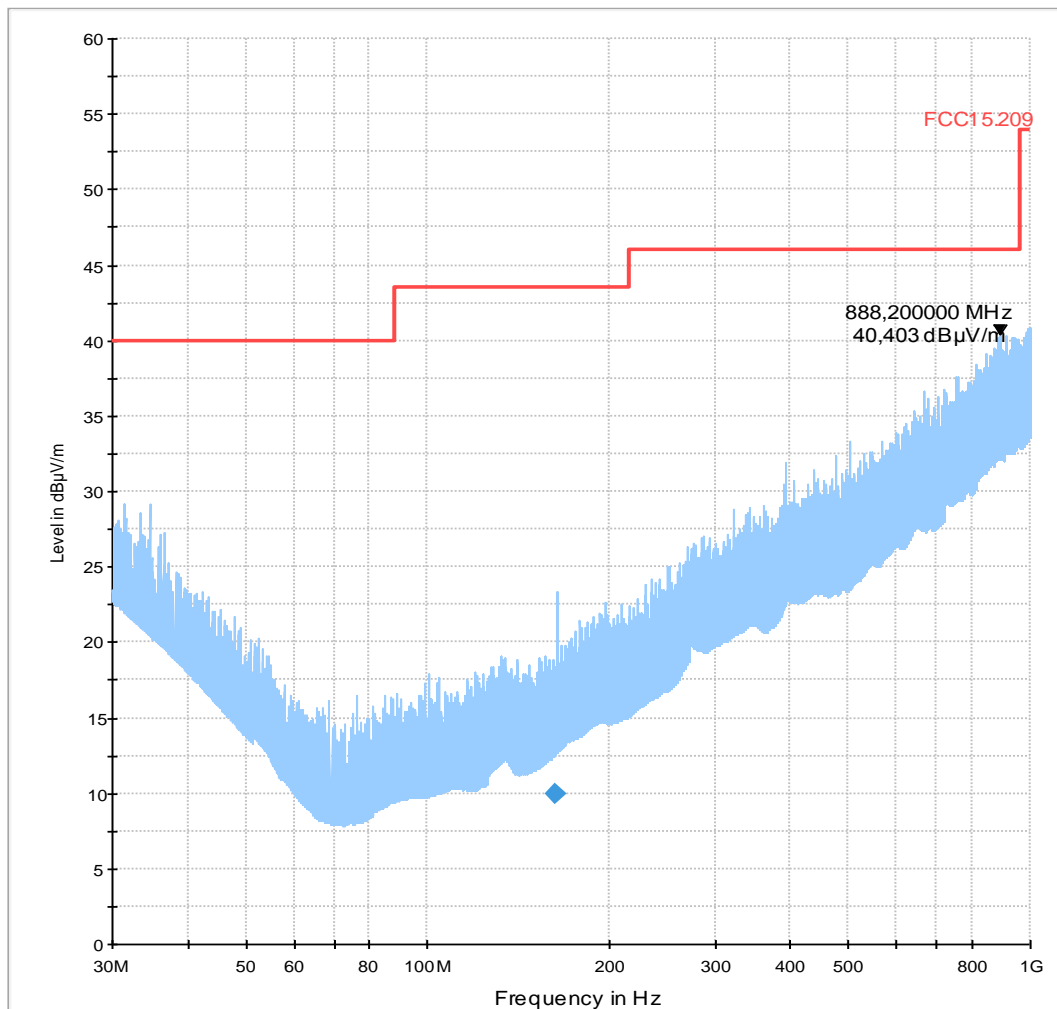
### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CAHNNEL 6 (WLANg, 54Mbps, 64QAM)
Power during tests:	full battery
Comment 1:	EUT position horizontal

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_KP0



### Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
162.680000	10.0	1000.0	120.000	212.0	H	58.0	9.6	33.50	43.50

EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_KP0

## Diagram No. a\_2.07

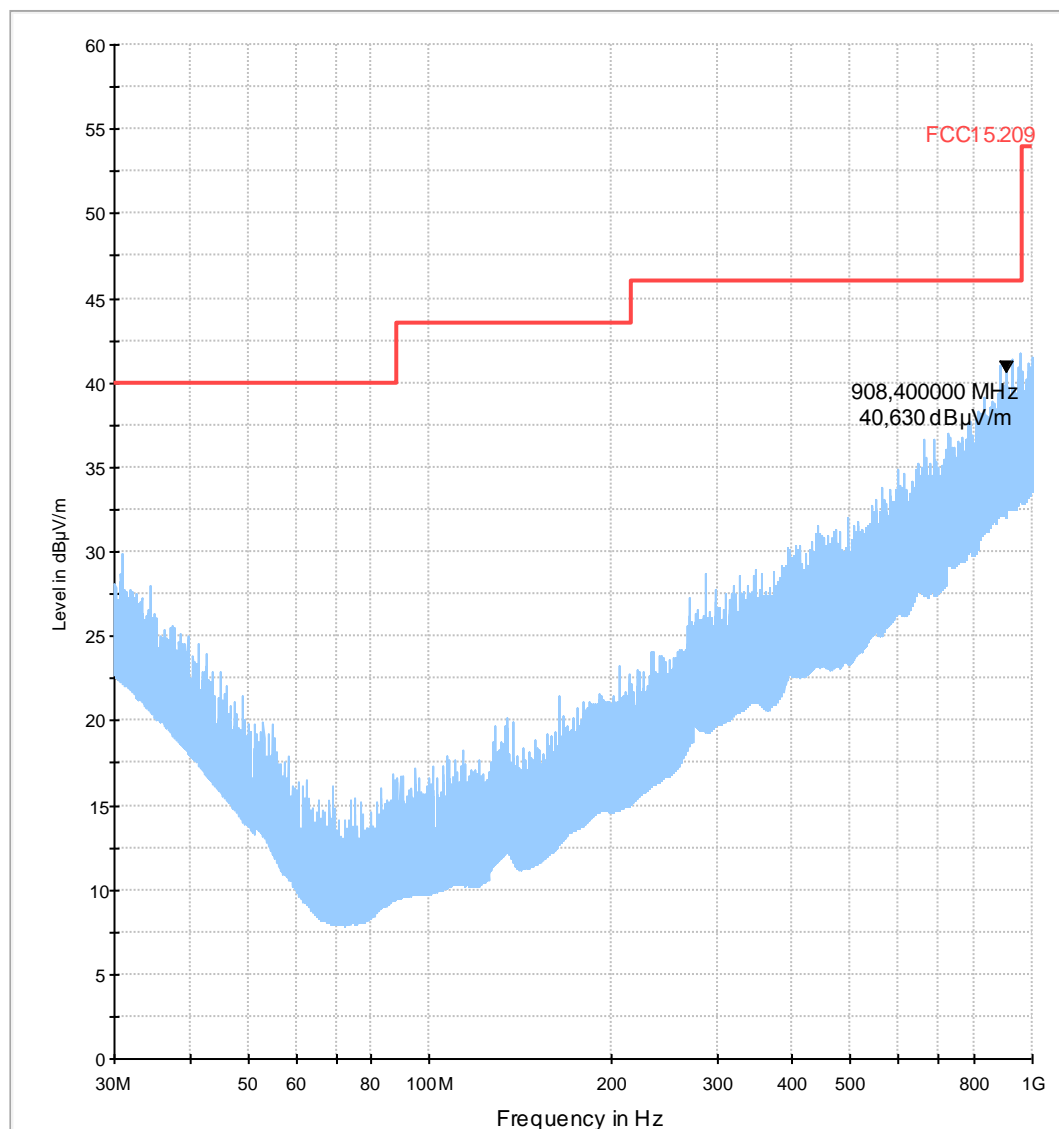
### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CAHNNEL 11 (WLANg, 54Mbps, 64QAM)
Power during tests:	full battery
Comment 1:	EUT position horizontal

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_KP0



EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_KP0

**1.7.2.3. Radiated field strength (30MHz < f < 1GHz), n-Mode MCS7 long guard intervall mode**

**Diagram No. a\_2.09**

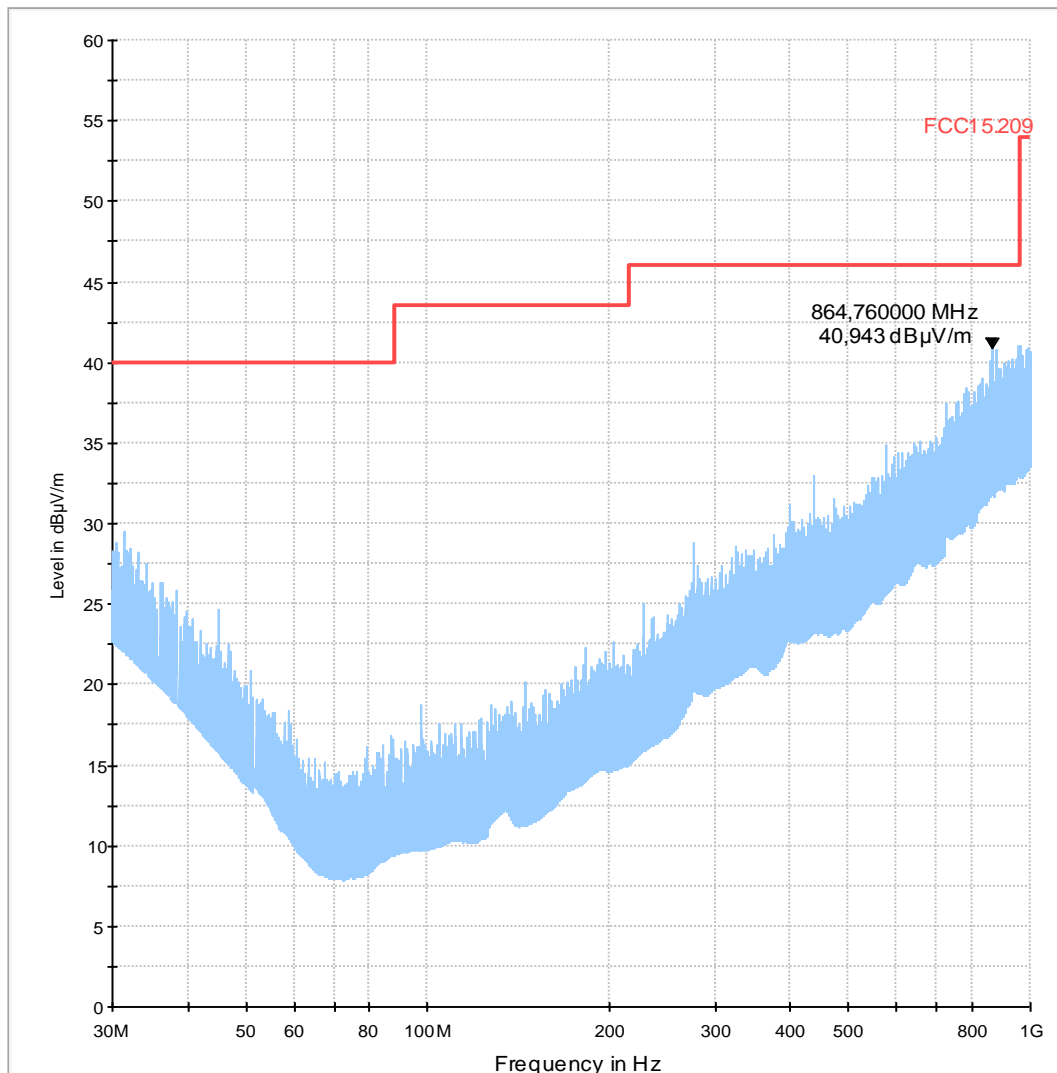
**Common Information**

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CAHNNEL 1 (WLANn, MCS7 Mbps, OFDM)
Power during tests:	full battery
Comment 1:	EUT position horizontal

**EUT Information**

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_KP0



EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_KP0

## Diagram No. a\_2.30

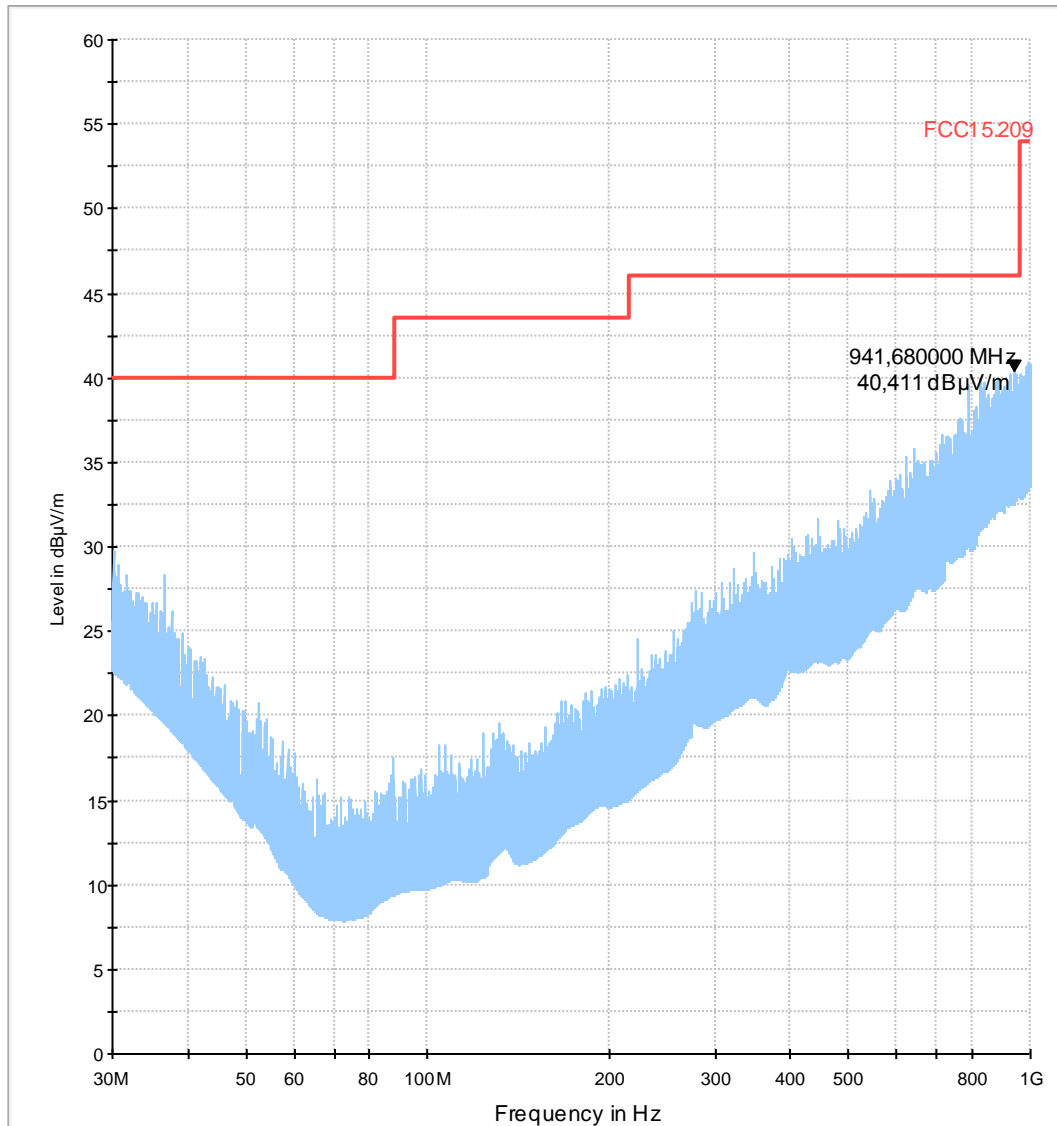
### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on CAHNNEL 11 (WLANn, MCS7 Mbps, OFDM)
Power during tests:	full battery
Comment 1:	EUT position horizontal

### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR (sample #2)

01\_FCC15.209\_hor+vert\_KP0



EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_KP0

## Diagram No. a\_2.34

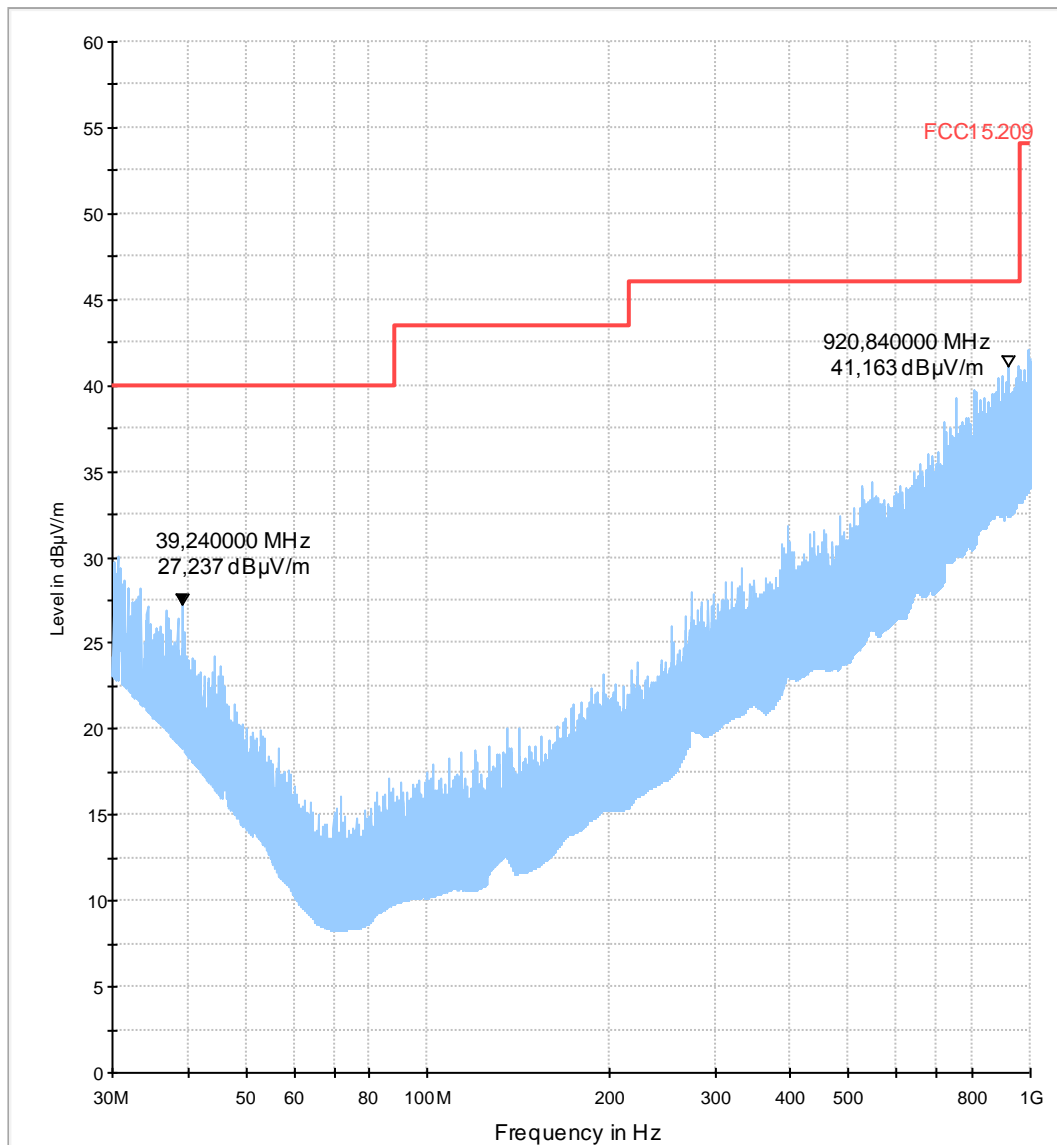
### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	WLAN n_Long, MCS0, Ch6
Power during tests:	full loaded batteries

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Comment:	S/N ...BR (WLAN rad#1)

01\_FCC15.209\_hor+vert\_KP0



EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_KP0

### 1.7.3. Radiated field strength (1GHz < f < 18GHz)

#### 1.7.3.1. Radiated field strength (f > 1GHz), b-Mode 2MBit

Diagram No.: b\_2.10

### Common Information

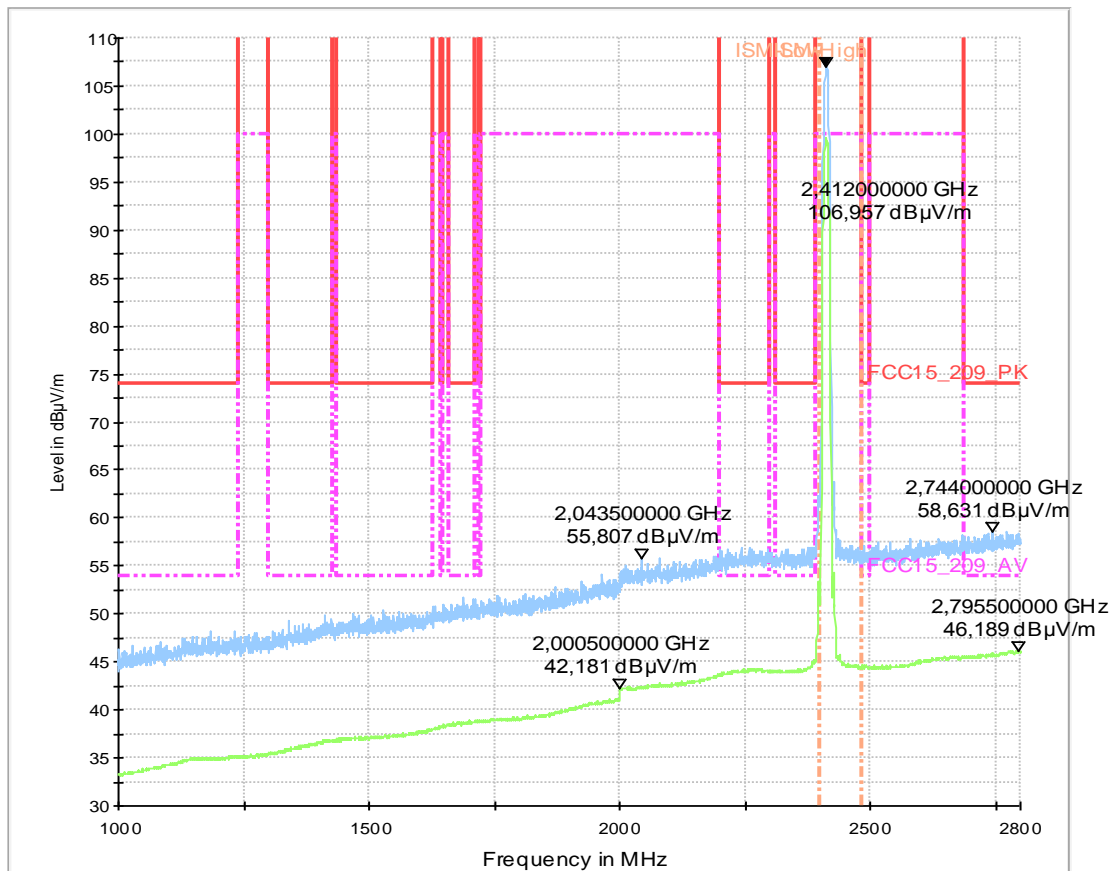
Test Description: Radiated field strength emission accord. §15.247 in 3m distance  
 Test Site: CETECOM GmbH Essen  
 Test Standard: §15.205 & 15.209 Intentional Radiator  
 Antenna polarisation: horizontal/vertical

Operator Name: Lor  
 Comment: Channel no. low=1  
 Op. Mode: WLAN b-Mode; 11MBit/s

### EUT Information

EUT Name: AAD-3880110-BV  
 Manufacturer: SEM  
 Serial Number: CB5A1CHVHS (Sample WLAN rad#2)  
 Hardware Rev: --  
 Software Rev: --  
 Comment: --

Sweep1\_SM1\_KP1\_WLAN\_1\_5ms



EMI Auto Test Template: Sweep1\_SM1\_KP1\_WLAN\_1\_5ms

## Diagram No.: a\_2.11

### Common Information

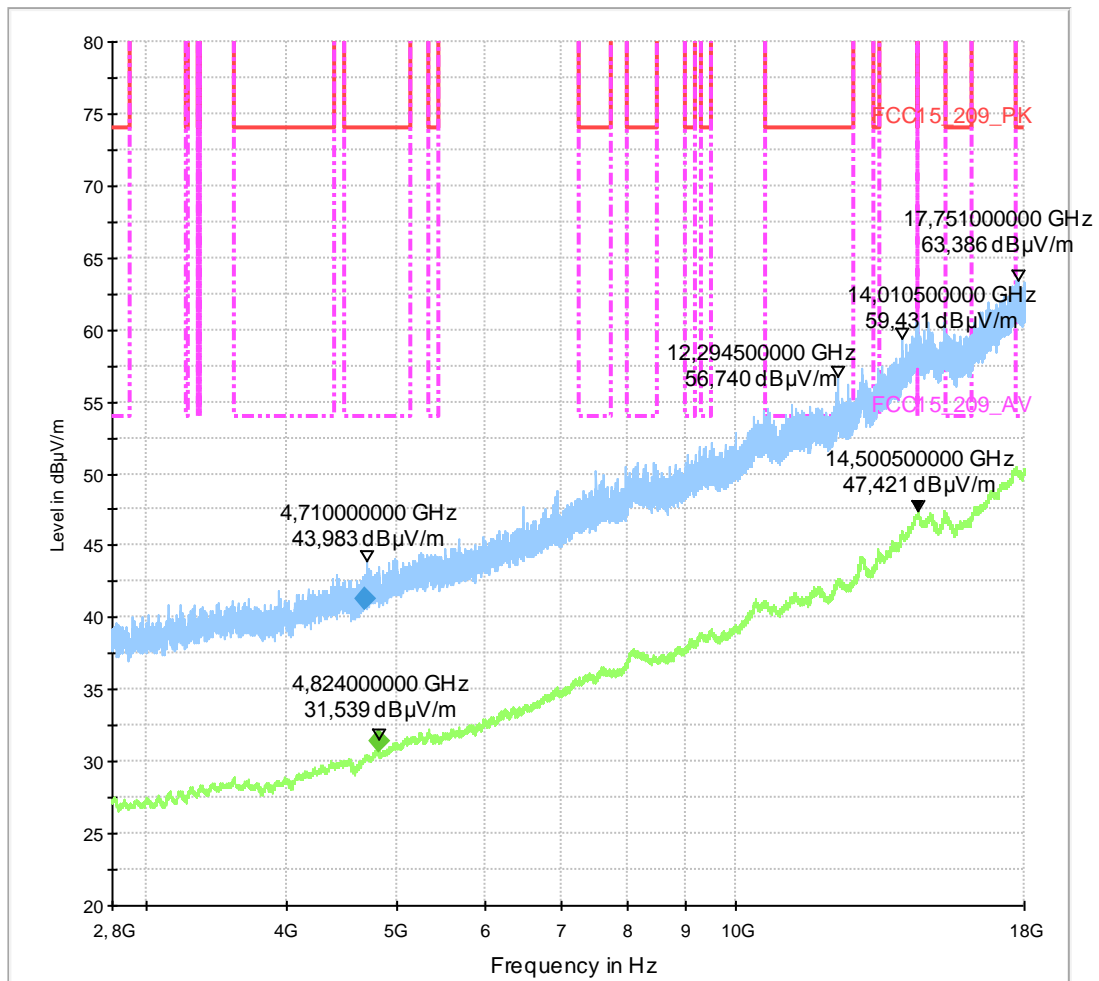
Test Description: Radiated field strength emission accord. §15.247 in 3m distance  
 Test Site: CETECOM GmbH Essen  
 Test Standard: §15.205 &15.209 Intentional Radiator  
 Antenna polarisation: horizontal/vertical

Operator Name: Lor  
 Comment: Channel no. low=1  
 Op. Mode: WLAN b-Mode; 11MBit/s

### EUT Information

EUT Name: AAD-3880110-BV  
 Manufacturer: SEM  
 Serial Number: CB5A1CHVHS (Sample WLAN rad#2)  
 Hardware Rev: --  
 Software Rev: --  
 Comment: --

Sweep2\_SM1\_KP0\_WLAN\_1ms





**Final Result 1**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
4690.400000	41.3	100.0	1000.000	155.0	H	243.0	2.3	32.7	74.0

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)
4824.000000	31.4	100.0	1000.000	155.0	V	106.0	2.7	22.6	54.0

EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.12

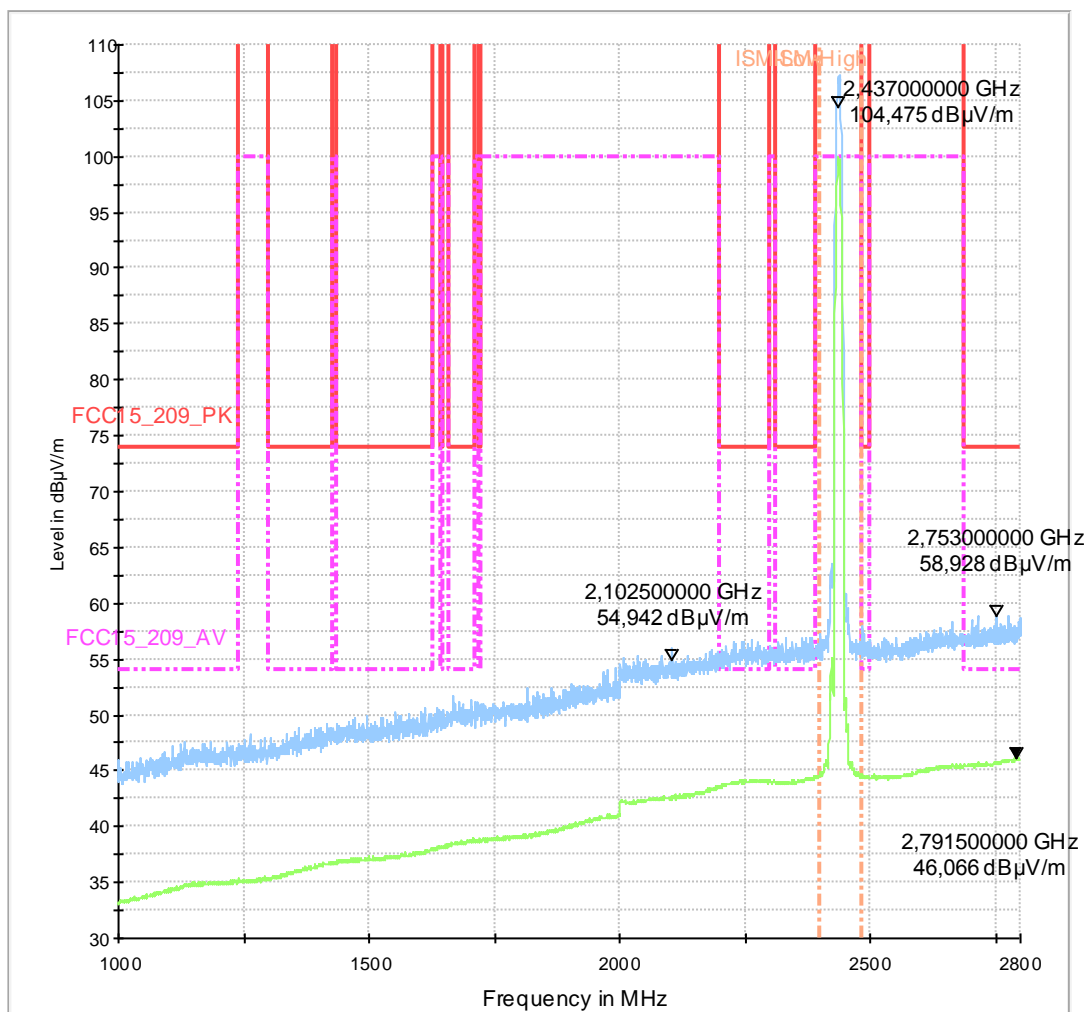
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Lor
Op. Mode:	WLAN b-Mode; 11MBit/s, Channel 6

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Hardware Rev:	--
Software Rev:	--
Comment:	--

Sweep1\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep1\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: 2\_2.13

### Common Information

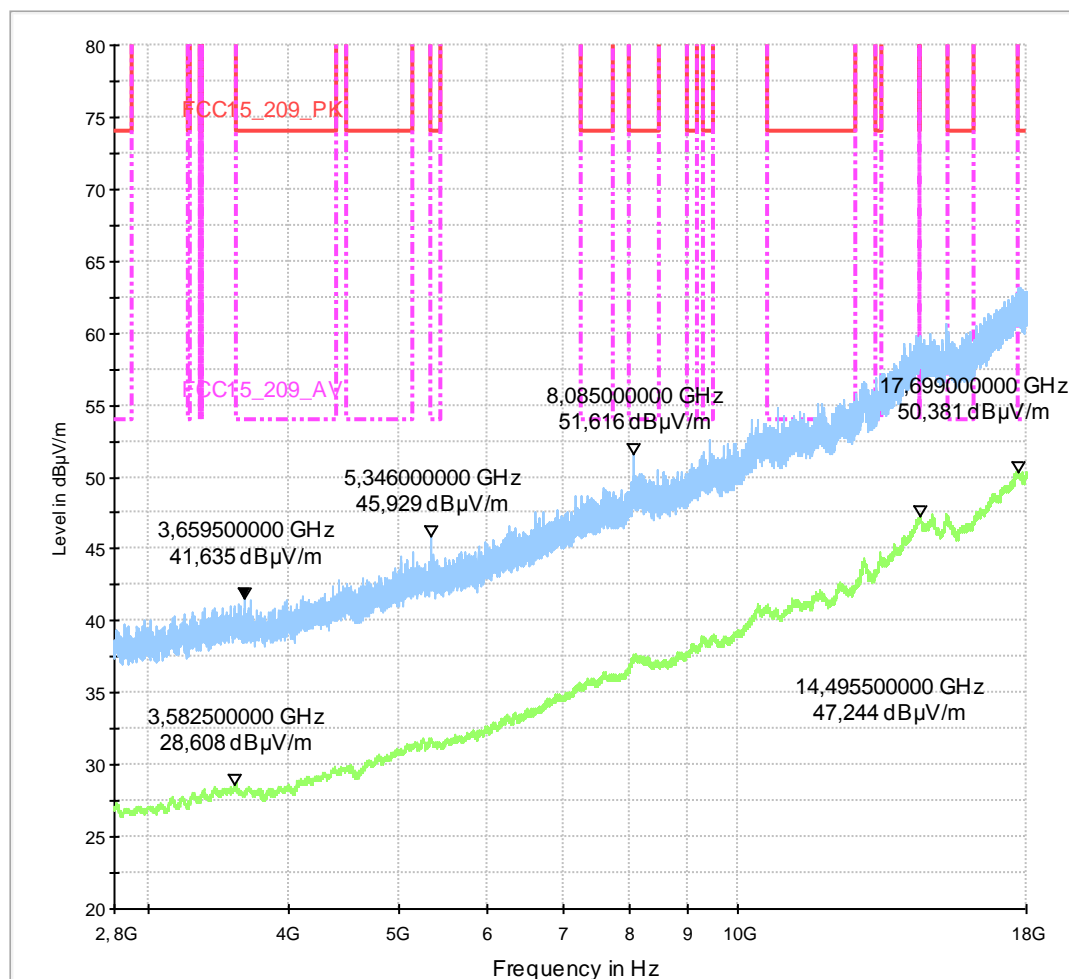
Test Description: Radiated field strength emission accord. §15.247 in 3m distance  
 Test Site: CETECOM GmbH Essen  
 Test Standard: §15.205 & 15.209 Intentional Radiator  
 Antenna polarisation: horizontal/vertical

Operator Name: Lor  
 Op. Mode: WLAN b-Mode; 11MBit/s, Channel 6

### EUT Information

EUT Name: AAD-3880110-BV  
 Manufacturer: SEM  
 Serial Number: CB5A1CHVHS (Sample WLAN rad#2)  
 Hardware Rev: --  
 Software Rev: --  
 Comment: --

Sweep2\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.14

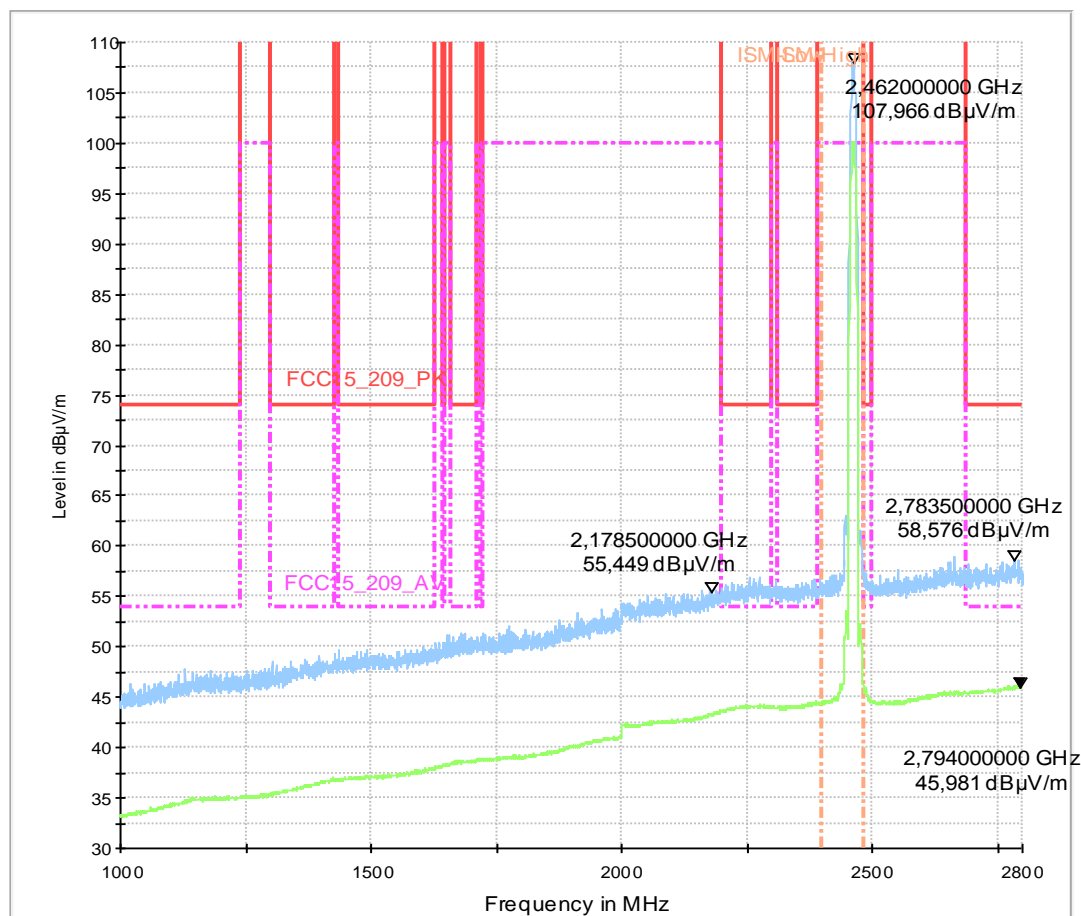
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Lor
Comment:	Channel no. high=11
Op. Mode:	WLAN, b-Mode, 11MBit

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Hardware Rev:	--
Software Rev:	--
Comment:	--

Sweep1\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep1\_SM1\_KP0\_WLAN\_1ms

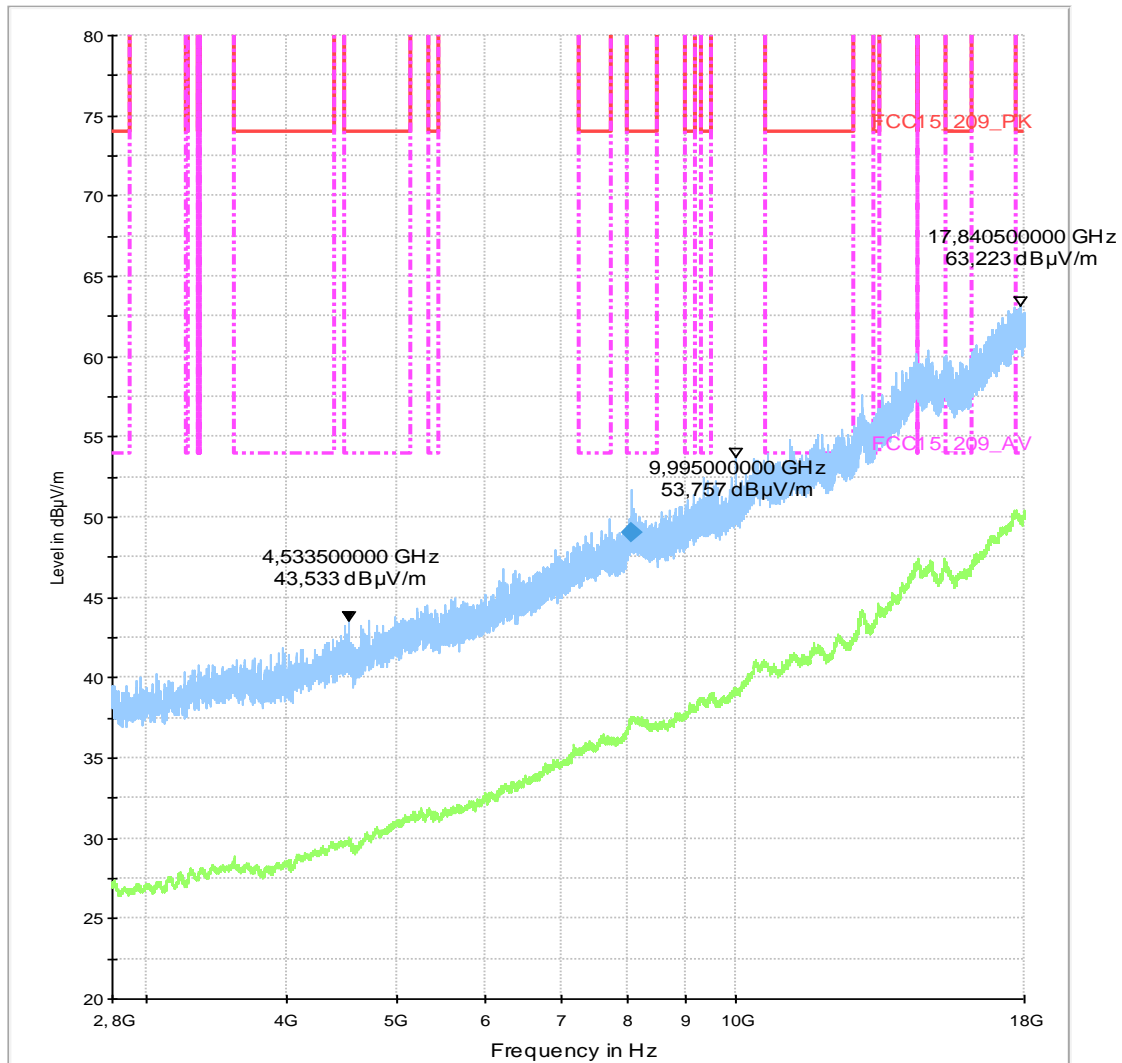
## Diagram No.: a\_2.15

### Common Information

Test Description: Radiated field strength emission accord. §15.247 in 3m distance  
 Test Site: CETECOM GmbH Essen  
 Test Standard: §15.205 & 15.209 Intentional Radiator  
 Antenna polarisation: horizontal/vertical

Operator Name: Lor  
 Comment: Channel no. high=11  
 Op. Mode: WLAN, b-Mode, 11MBit

Sweep2\_SM1\_KP0\_WLAN\_1ms



### Final Result 1

Frequency (MHz)	MaxPeak (dBµV/m)	Meas Time	Bandwidth h (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr (dB)	Margi n (dB)	Limit (dBµV/m)
8088.300000	49.1	100.0	1000.000	155.0	V	270.0	12.0	24.9	74.0

EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms

**1.7.3.2. Radiated field strength (f > 1GHz), g-Mode, 6Mbit**

**Diagram No.: a\_2.16**

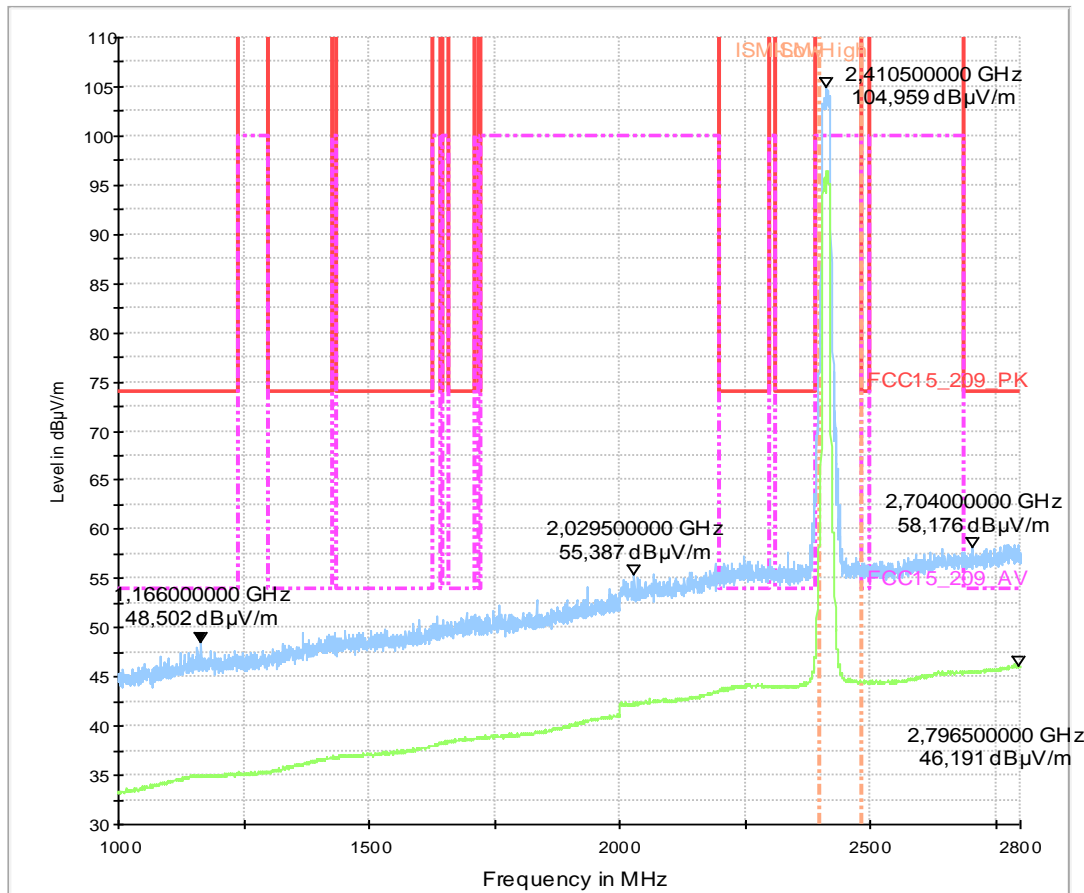
**Common Information**

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Lor
Comment:	Channel no. low=1
Op. Mode:	WLAN g-Mode; 6MBit/s

**EUT Information**

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Hardware Rev:	--
Software Rev:	--
Comment:	--

Sweep1\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep1\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.17

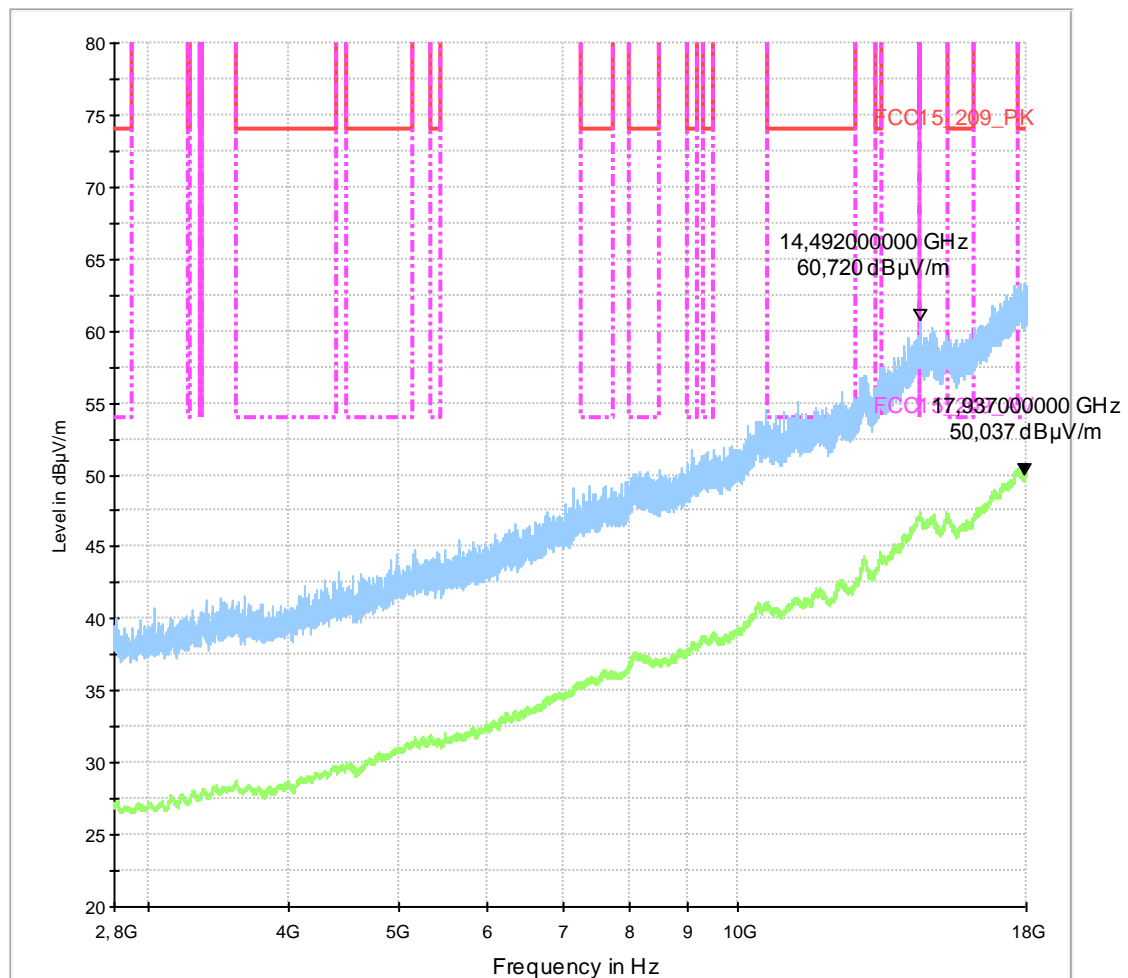
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 &15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Lor
Comment:	Channel no. low=1
Op. Mode:	WLAN g-Mode; 6MBit/s

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Hardware Rev:	--
Software Rev:	--
Comment:	--

Sweep2\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.18

### Common Information

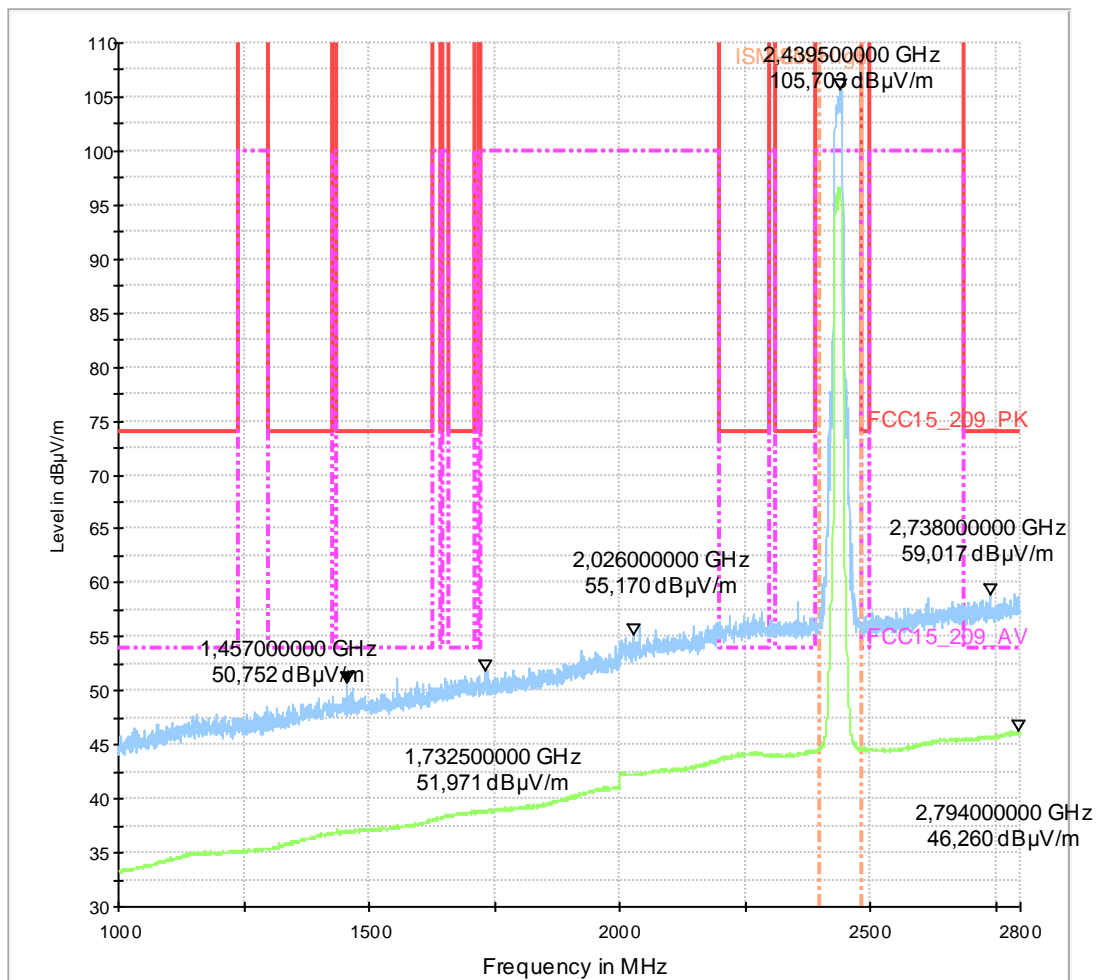
Test Description: Radiated field strength emission accord. §15.247 in 3m distance  
 Test Site: CETECOM GmbH Essen  
 Test Standard: §15.205 & 15.209 Intentional Radiator  
 Antenna polarisation: horizontal/vertical

Operator Name: Lor  
 Comment: Channel no. middle=39  
 Op. Mode: WLAN g-Mode; 6MBit/s

### EUT Information

EUT Name: AAD-3880110-BV  
 Manufacturer: SEM  
 Serial Number: CB5A1CHVHS (Sample WLAN rad#2)  
 Hardware Rev: --  
 Software Rev: --  
 Comment: --

Sweep1\_SM1\_KP1\_WLAN\_1\_5ms



EMI Auto Test Template: Sweep1\_SM1\_KP1\_WLAN\_1\_5ms



## Diagram No.: a\_2.19

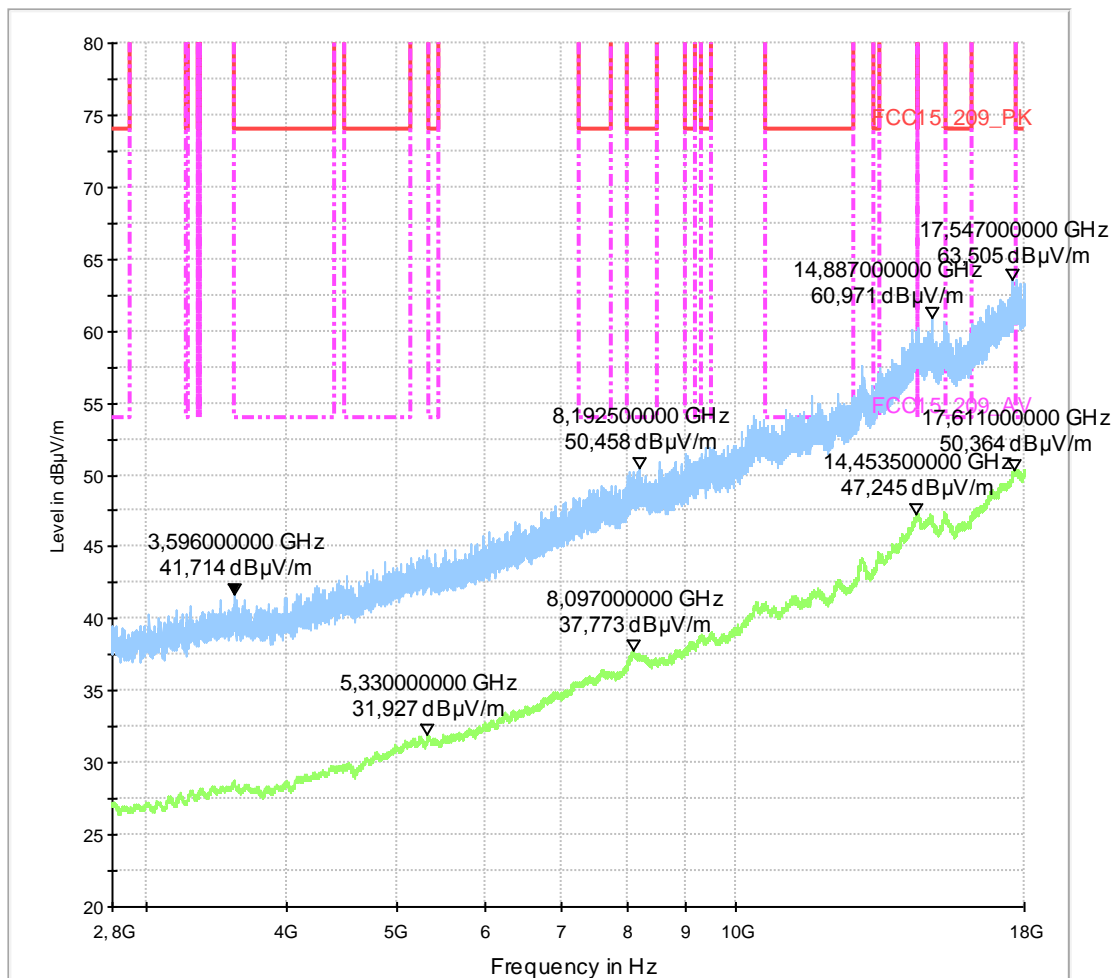
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Lor
Comment:	Channel no. middle=6
Op. Mode:	WLAN g-Mode; 6MBit/s

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Hardware Rev:	--
Software Rev:	--
Comment:	--

Sweep2\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.20

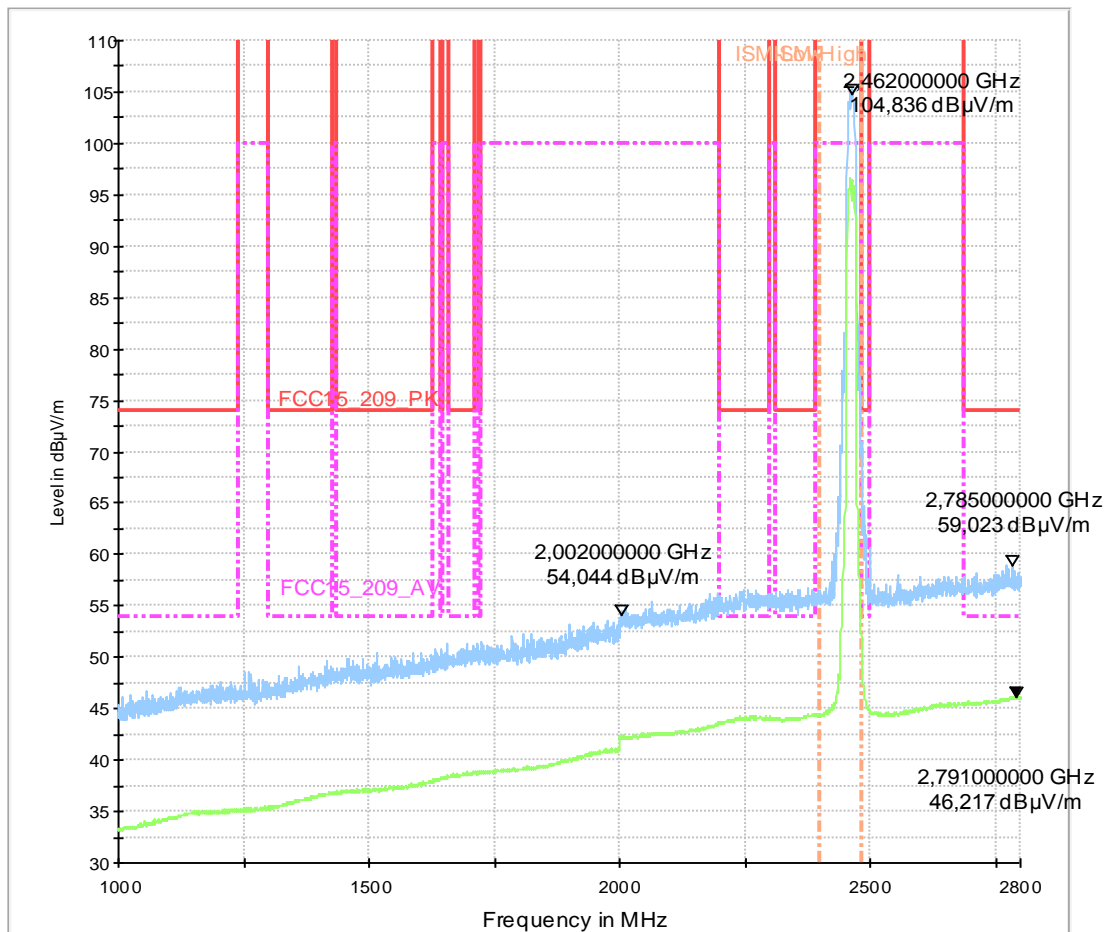
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Lor
Comment:	Channel no. high=11
Op. Mode:	WLAN g-Mode; 6MBit/s

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Hardware Rev:	--
Software Rev:	--
Comment:	--

Sweep1\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep1\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.21

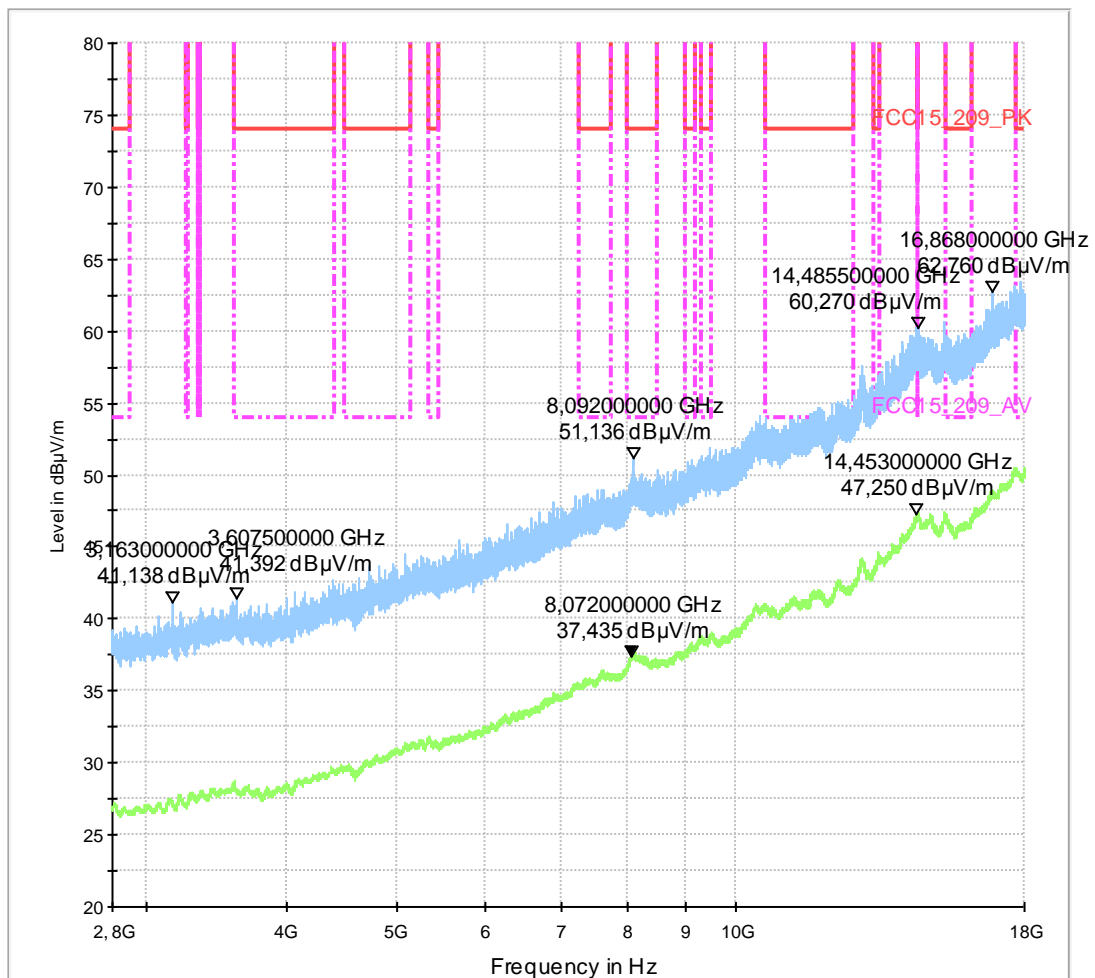
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 &15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Lor
Comment:	Channel no. high=11
Op. Mode:	WLAN g-Mode; 6MBit/s

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Hardware Rev:	--
Software Rev:	--
Comment:	--

Sweep2\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms

1.7.3.3. Radiated field strength (f > 1GHz), n-Mode MCS0 long guard mode

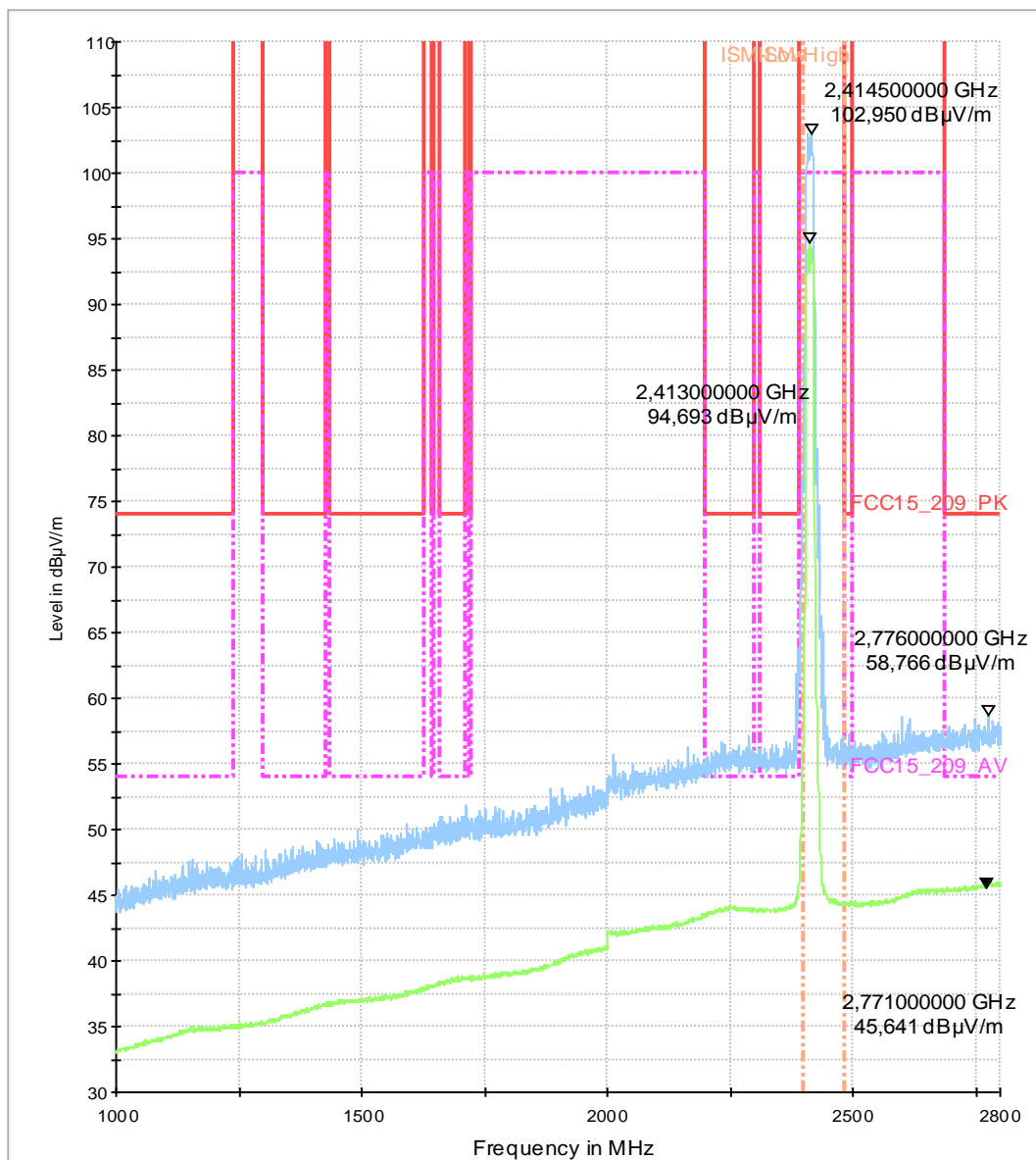
Diagram No.: a\_2.22

**Common Information**

Test Description: Radiated field strength emission accord. §15.247 in 3m distance  
 Test Site: CETECOM GmbH Essen  
 Test Standard: §15.205 &15.209 Intentional Radiator  
 Antenna polarisation: horizontal/vertical

Operator Name: Tas  
 Comment: Channel no. middle=1  
 Op. Mode: WLAN n, MCS0\_long

Sweep1\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep1\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.23

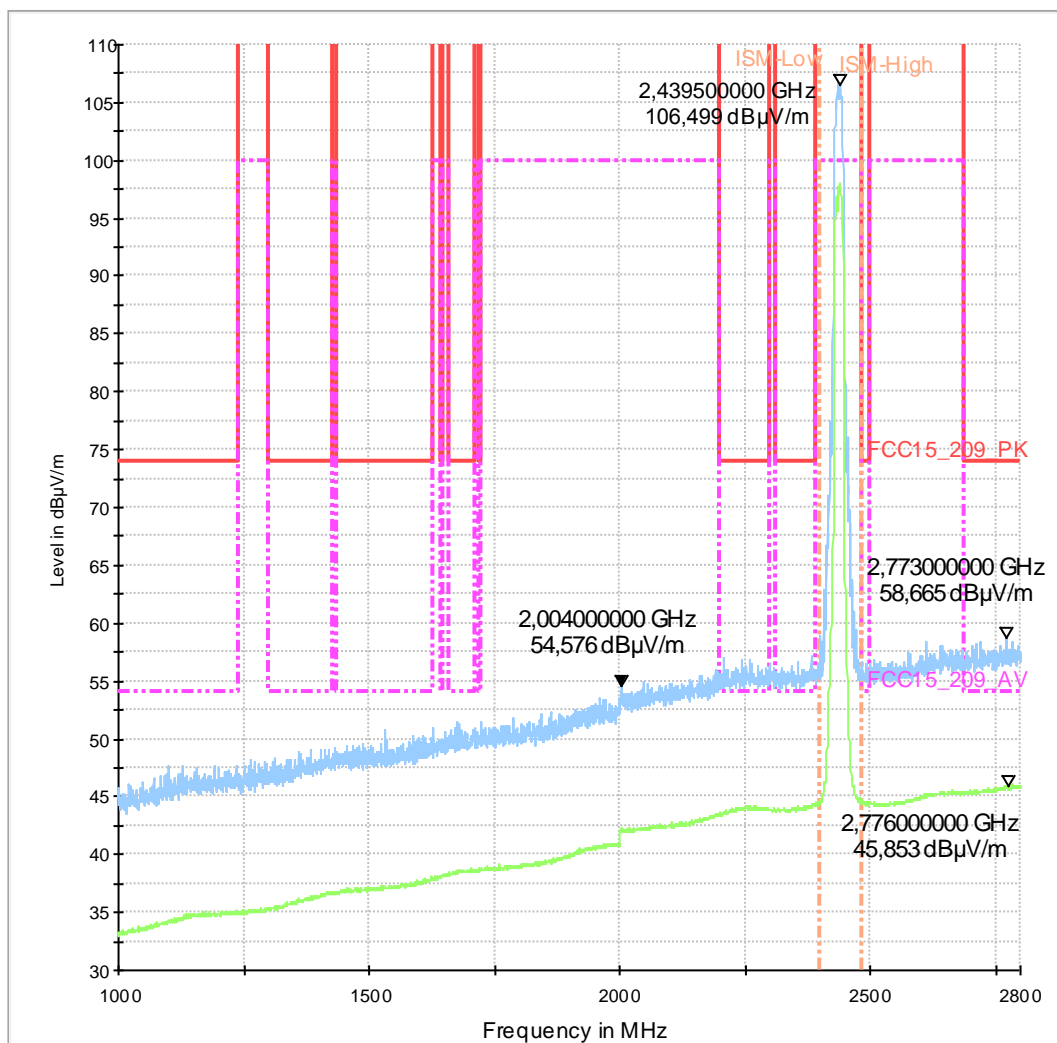
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	Channel no. middle=6
Op. Mode:	WLAN n, MCS0_long

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Comment:	--

Sweep1\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep1\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.24

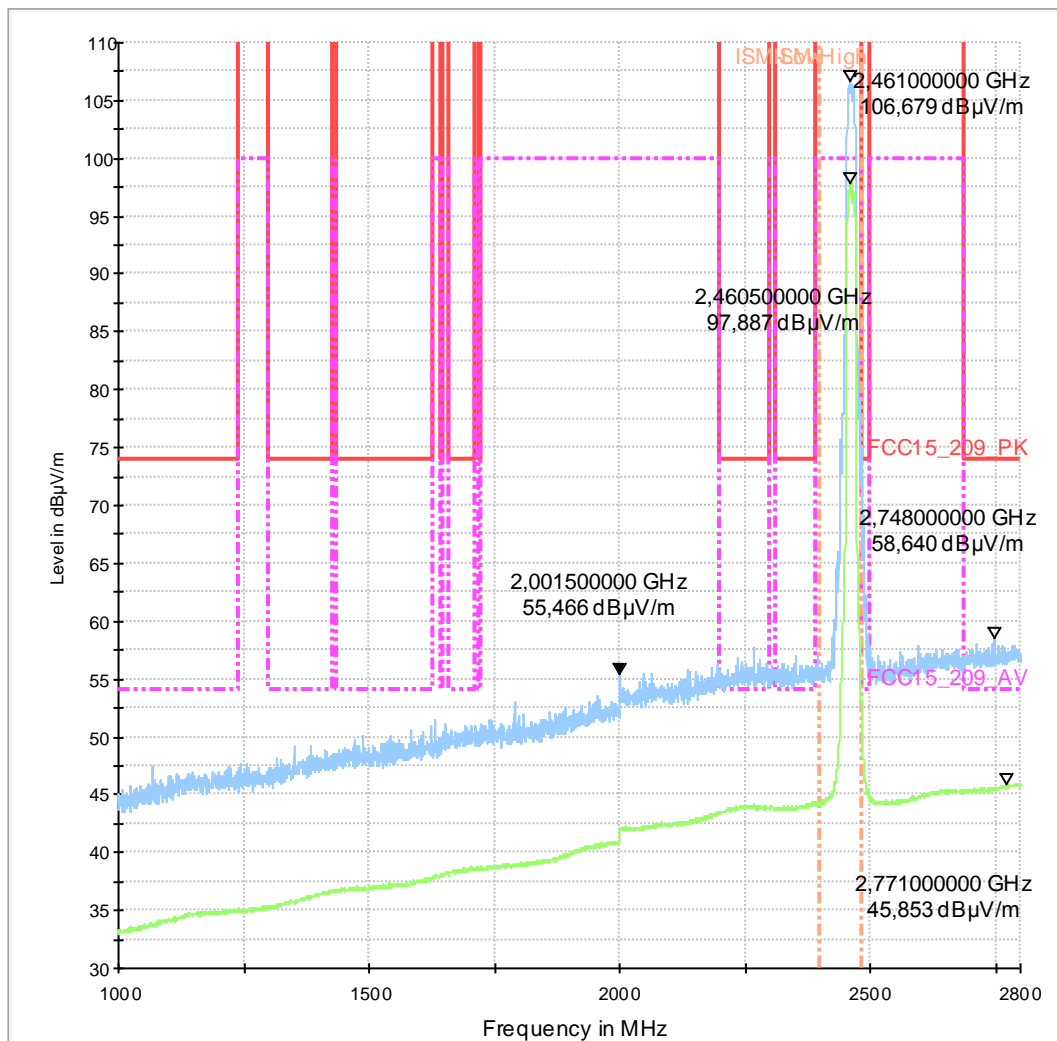
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & 15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	Channel no. high=11
Op. Mode:	WLAN n, MCS0_long

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Comment:	--

Sweep1\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep1\_SM1\_KP0\_WLAN\_1ms

## Diagram No.: a\_2.25

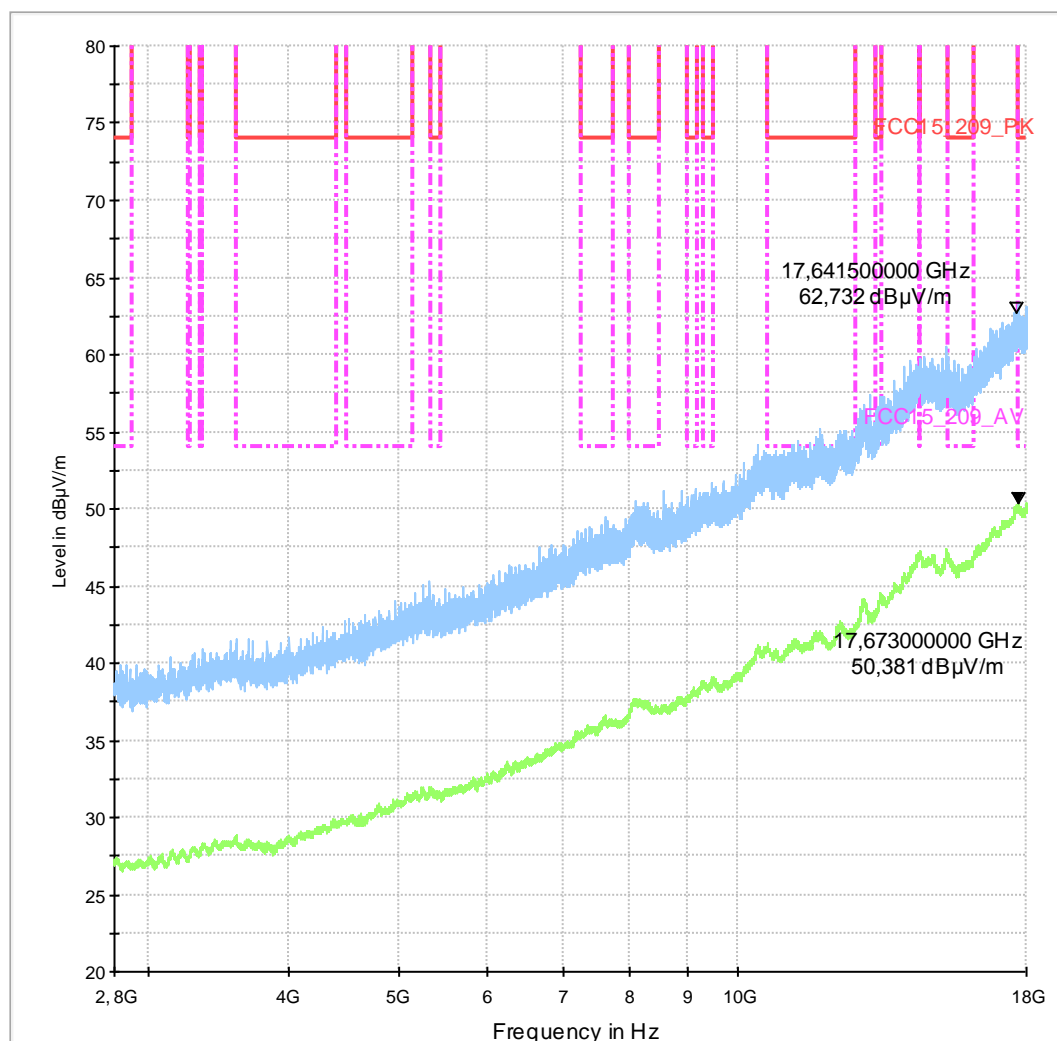
**Common Information**

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	Channel no. low= 1
Op. Mode:	WLAN n, MCS0_long

**EUT Information**

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Comment:	--

Sweep2\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template:

## Diagram No.: a\_2.26

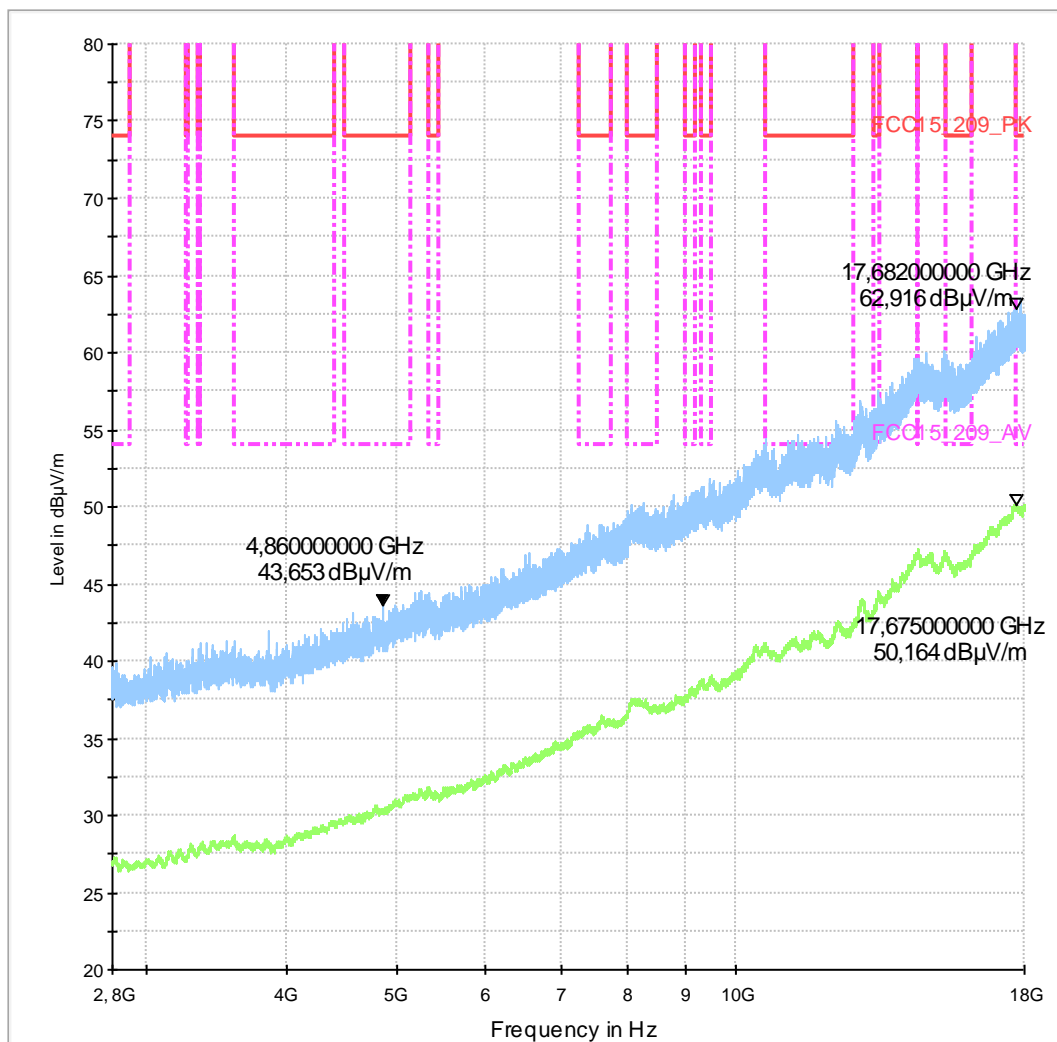
### Common Information

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	Channel no. middle=6
Op. Mode:	WLAN n, MCS0_long

### EUT Information

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Comment:	--

Sweep2\_SM1\_KP0\_WLAN\_1ms



EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms



## Diagram No.: a\_2.27

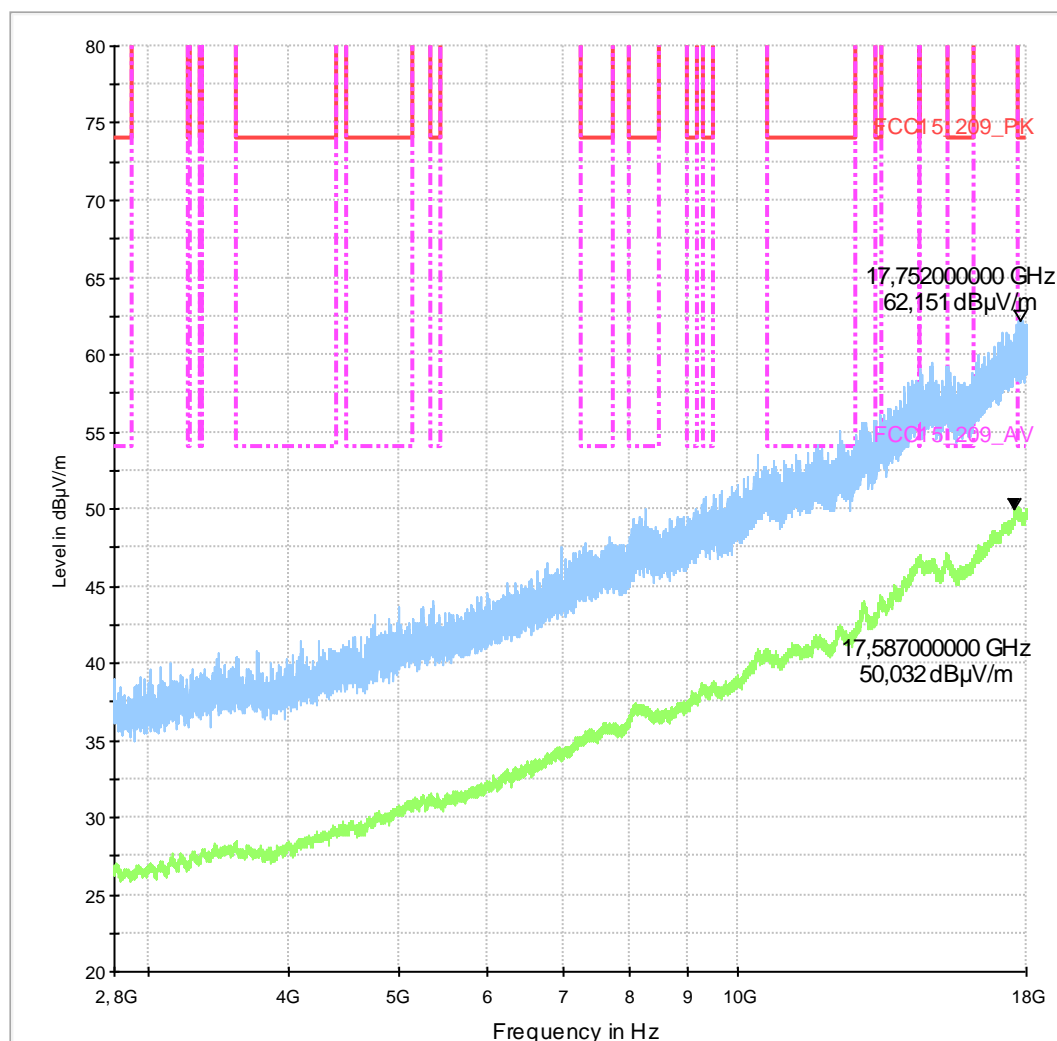
**Common Information**

Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	Channel no. high=11
Op. Mode:	WLAN n, MCS0_long

**EUT Information**

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Comment:	--

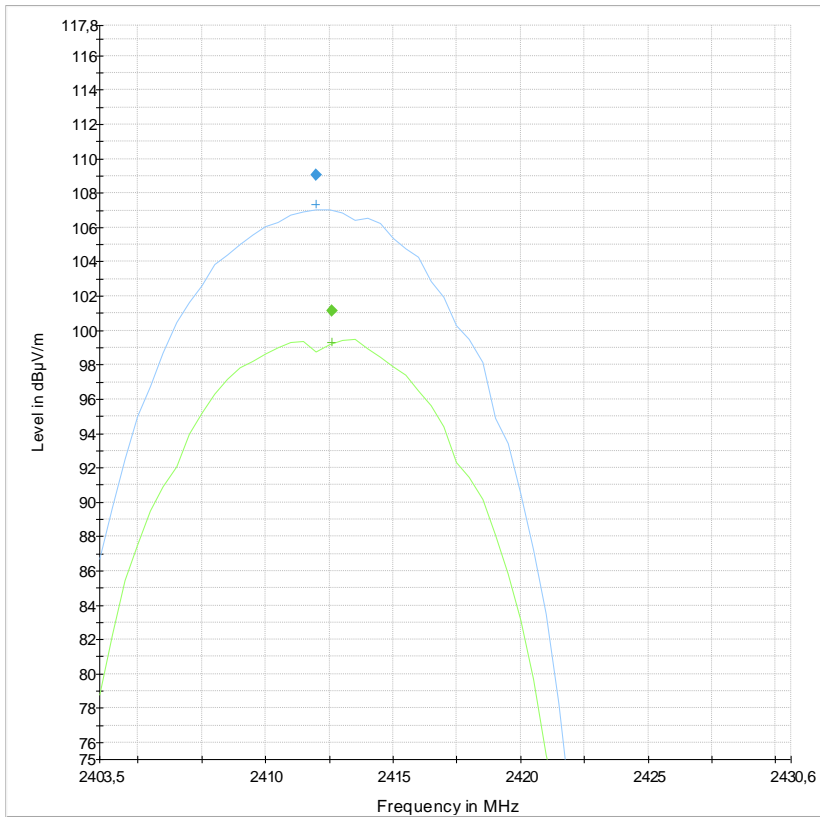
Sweep2\_SM1\_KP0\_WLAN\_1ms



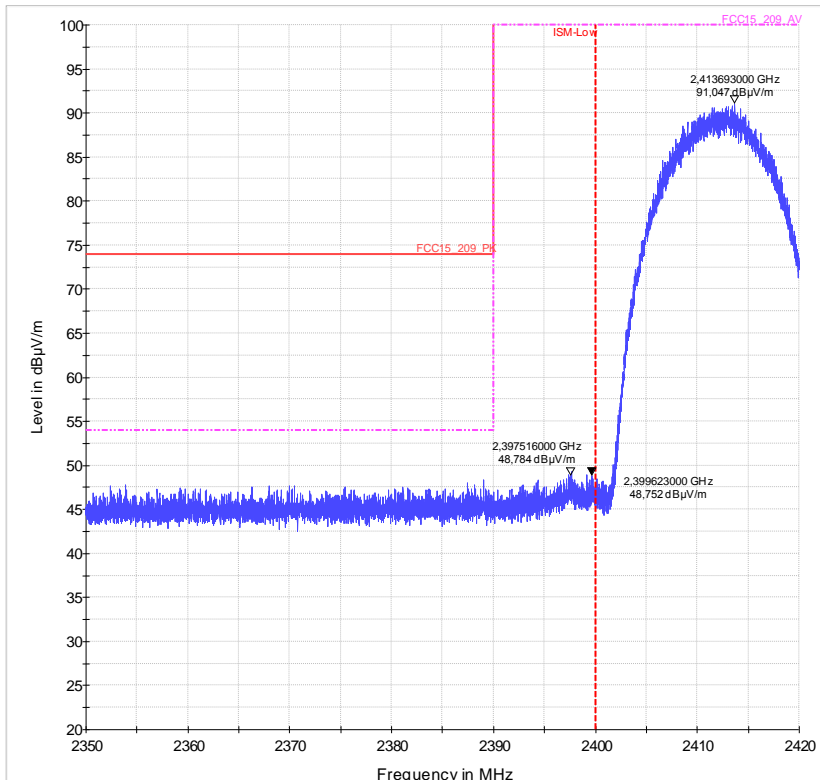
EMI Auto Test Template: Sweep2\_SM1\_KP0\_WLAN\_1ms

**1.7.4. Carrier radiated field strength in 3m distance and band-edge compliance radiated according FCC §15.205 & §15.209**

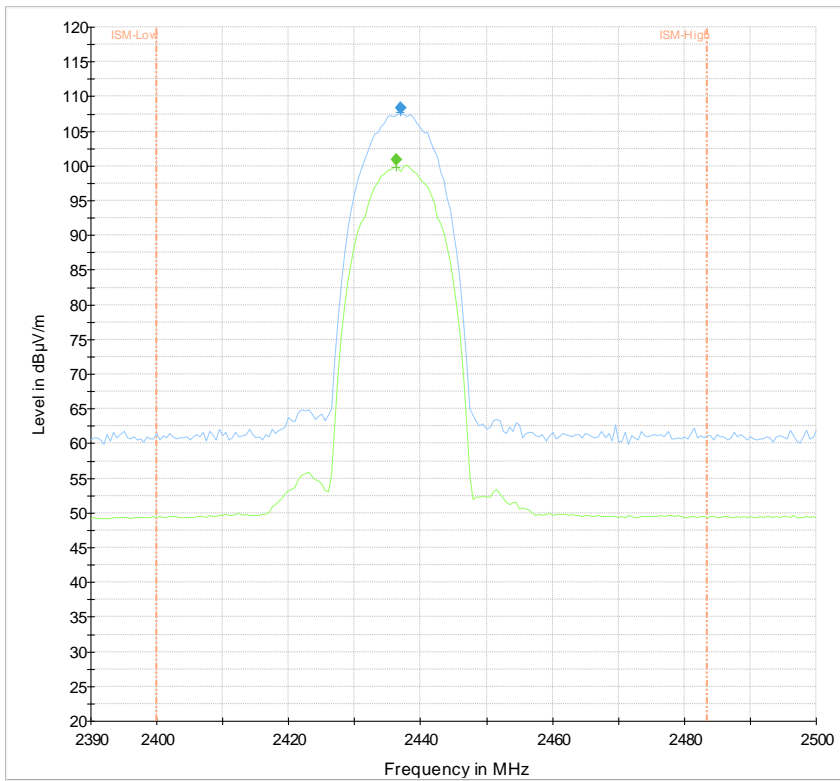
**1.7.4.1. b-Mode, 11Mbit**



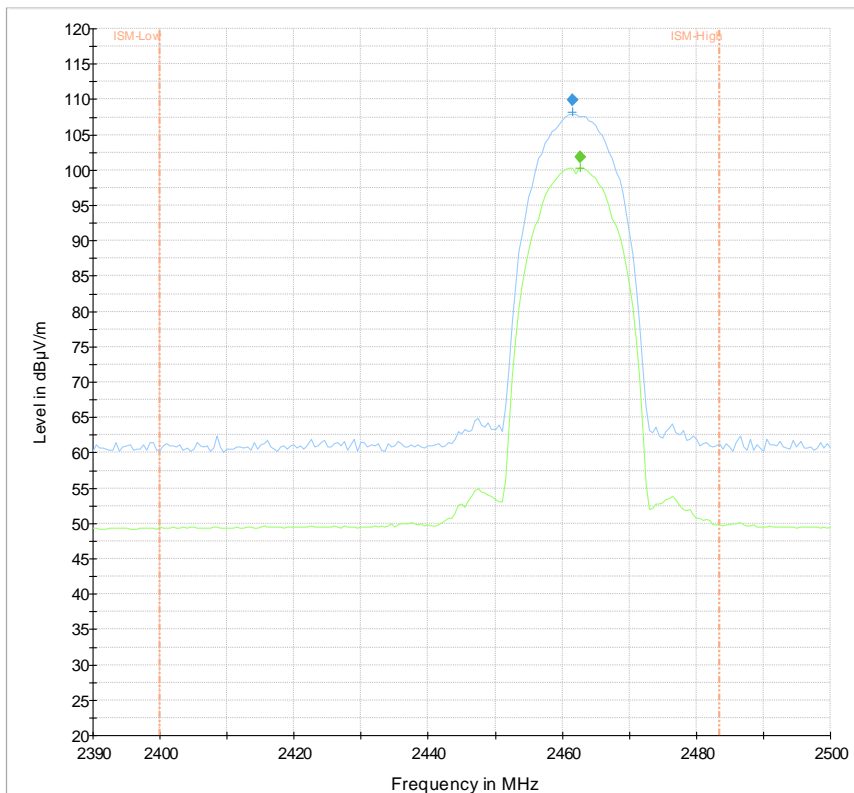
Carrier field strength, channel 1



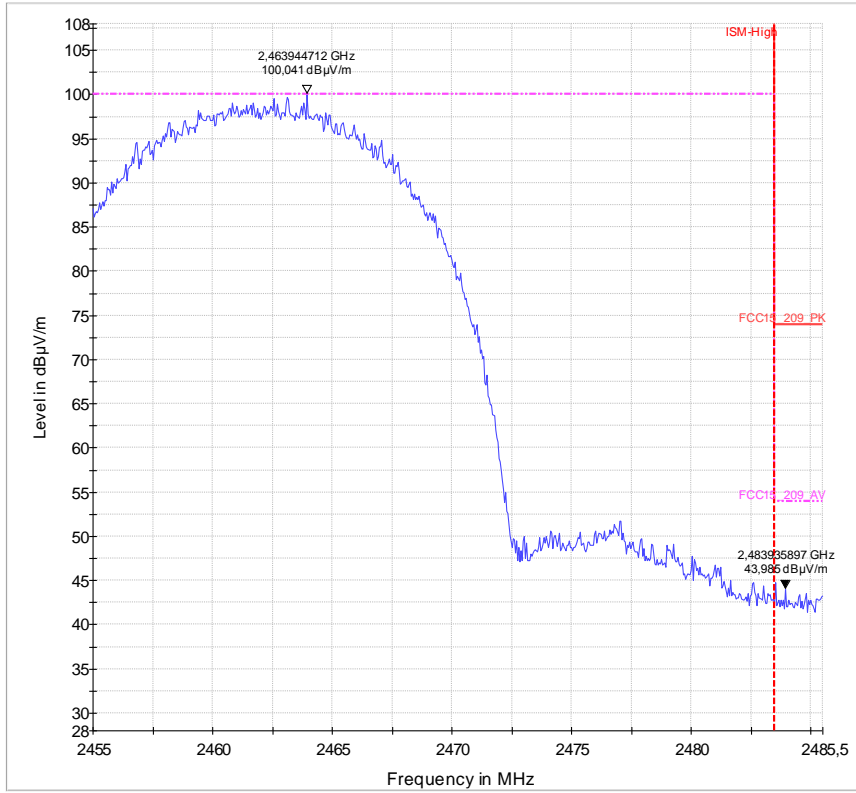
Band-Edge left, Channel 1



Carrier field strength, channel 6

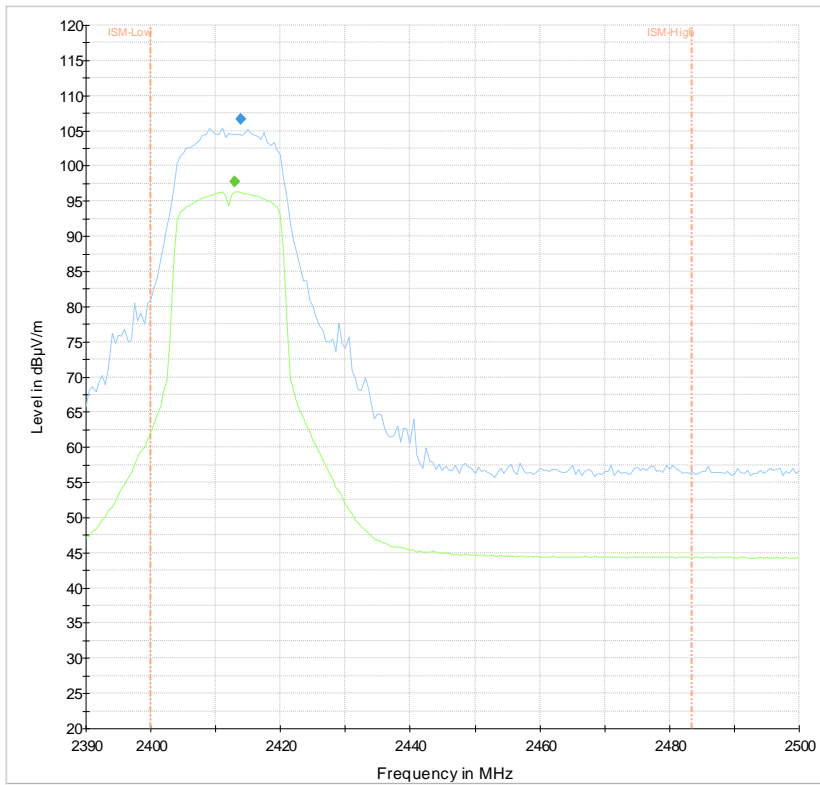


Band-Edge right, Step 1 & carrier field strength, channel 11

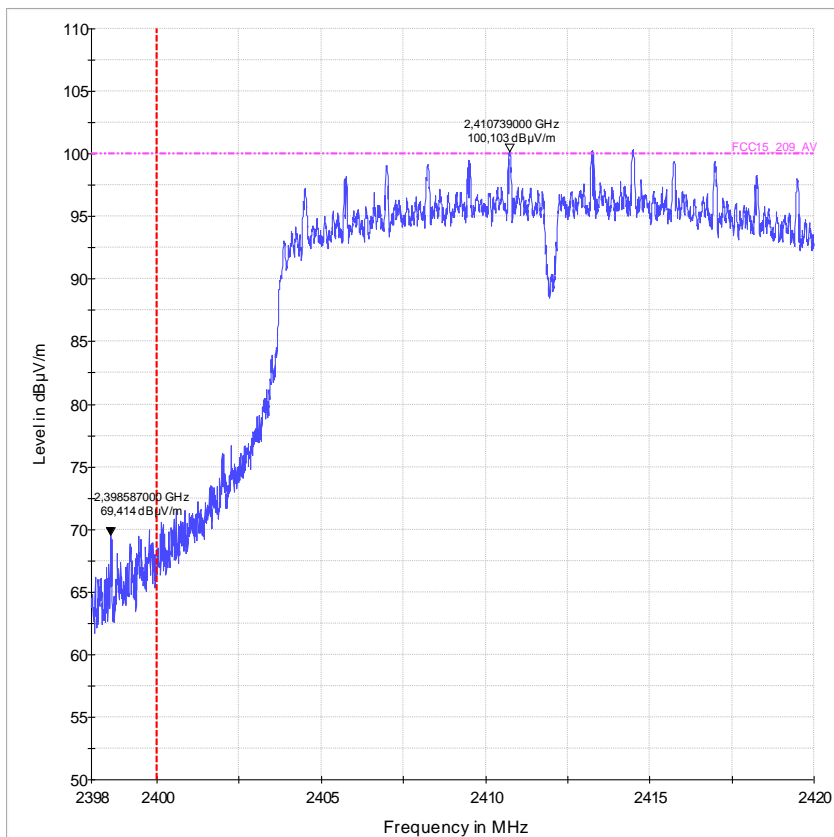


Band-Edge right, Step 2, channel 11

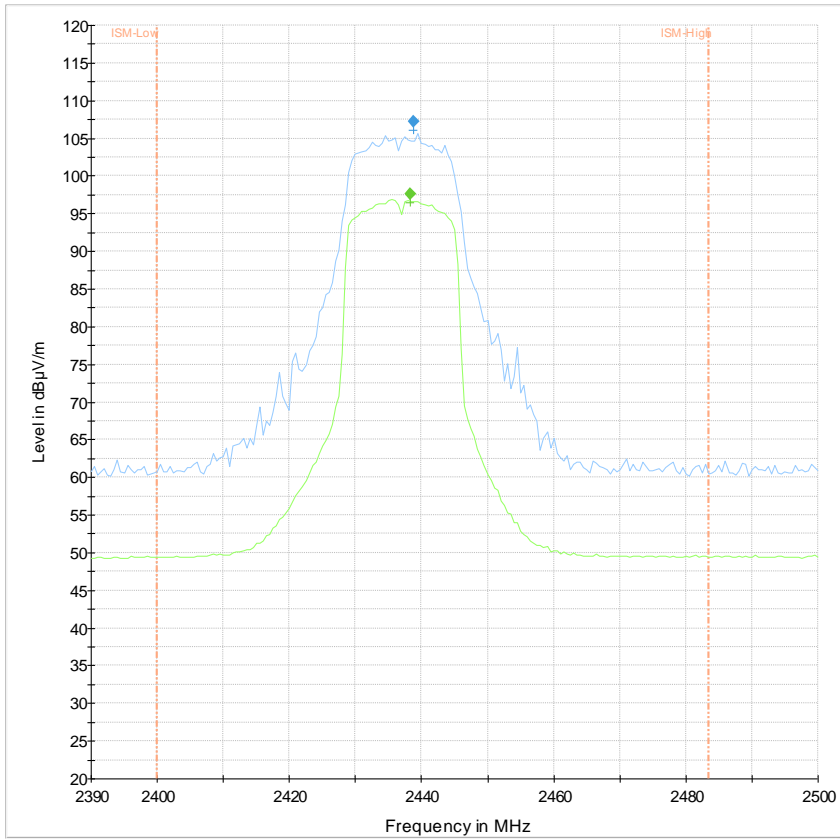
**1.7.4.2. Carrier radiated field strength (f > 1GHz), g-Mode, 6 MBit**



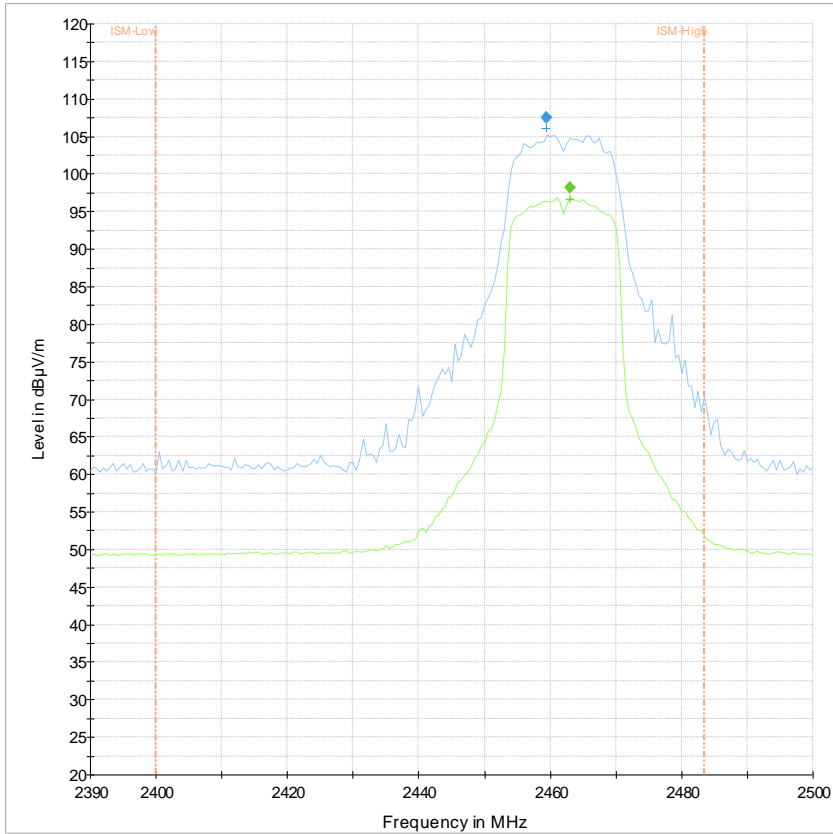
Carrier field strength, channel 1



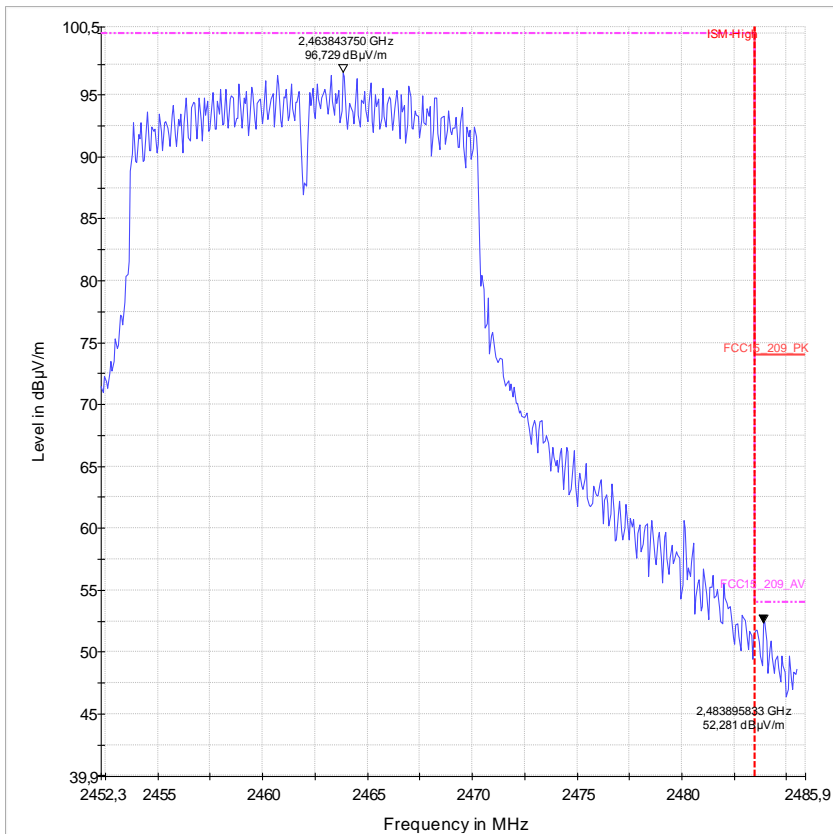
Band-Edge left, channel 1



Carrier field strength, channel 6

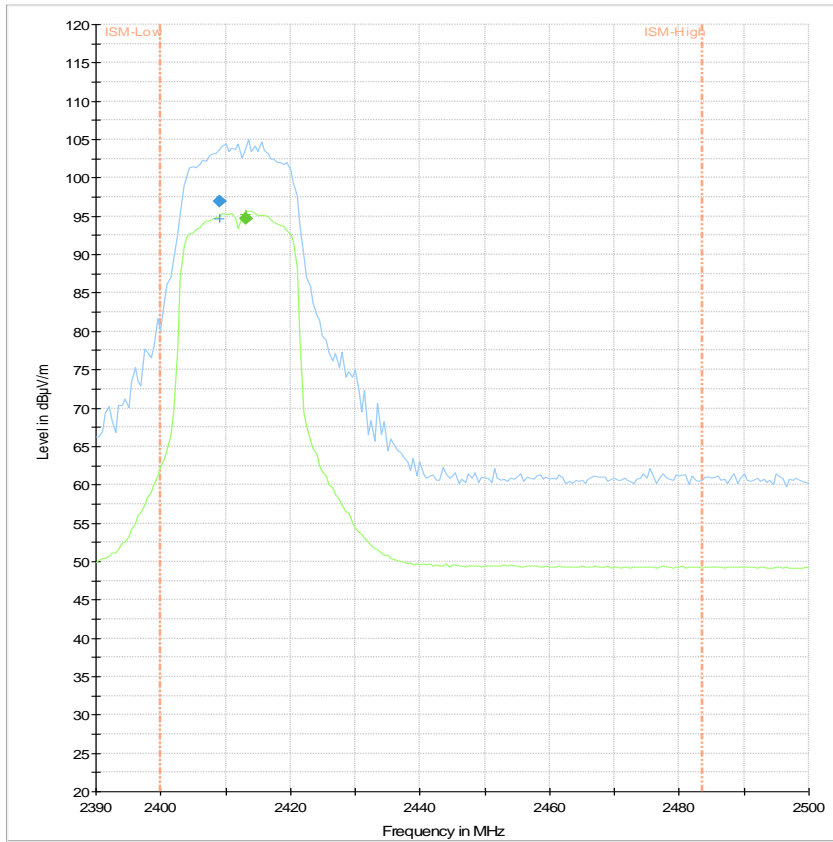


Band-Edge right & carrier field strength, step 1, channel 11

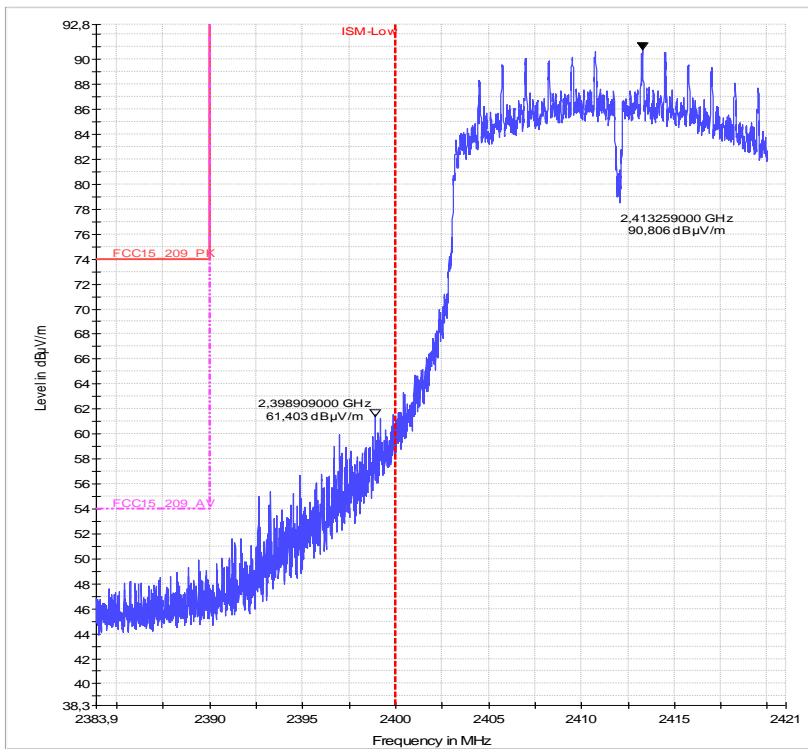


Band-Edge right, Step 2, channel 11

### 1.7.4.3. n-Mode MCS0 long guard mode

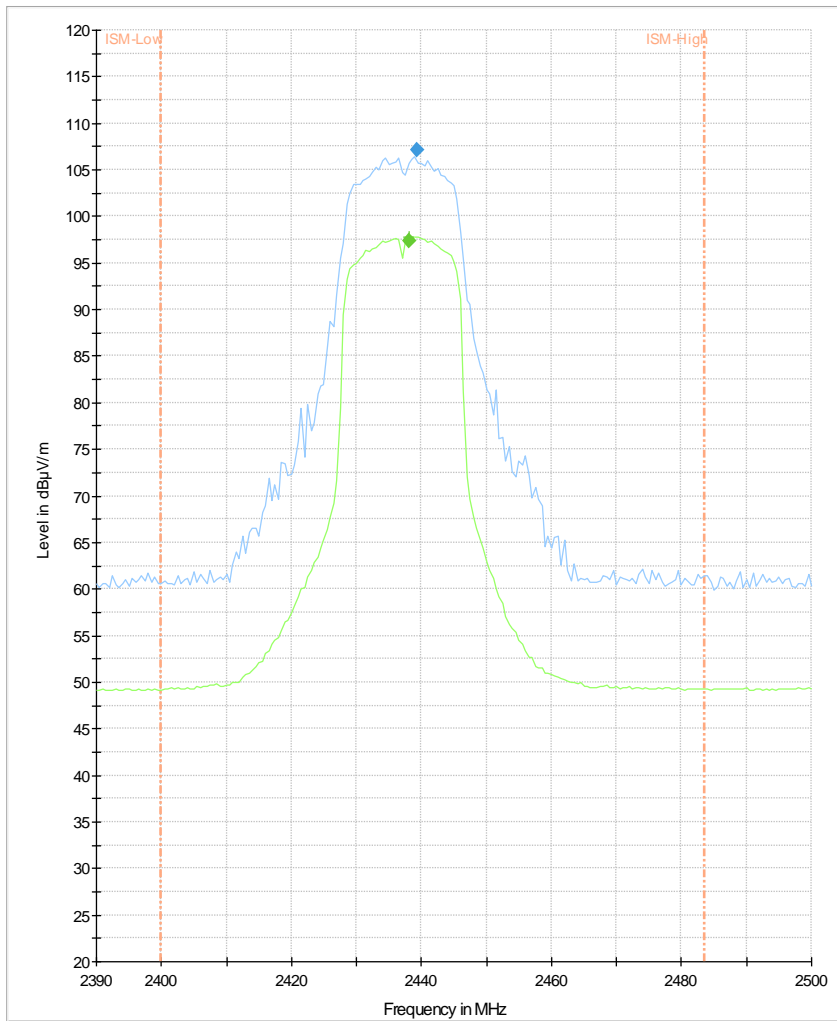


Carrier field strength Channel 1

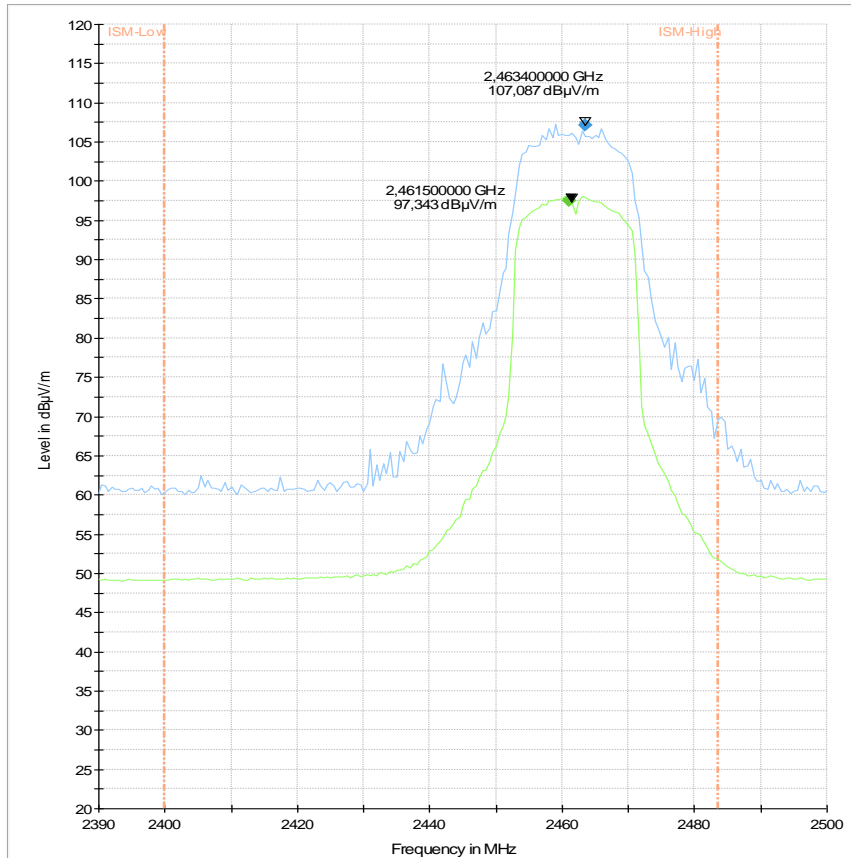


Band-Edge left, Channel 1

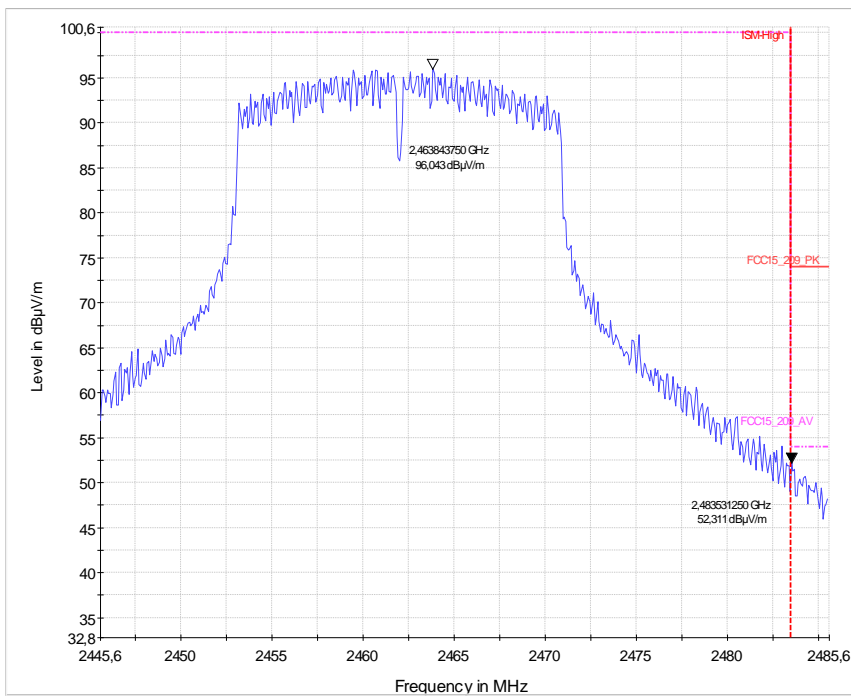




Carrier field strength Channel 6

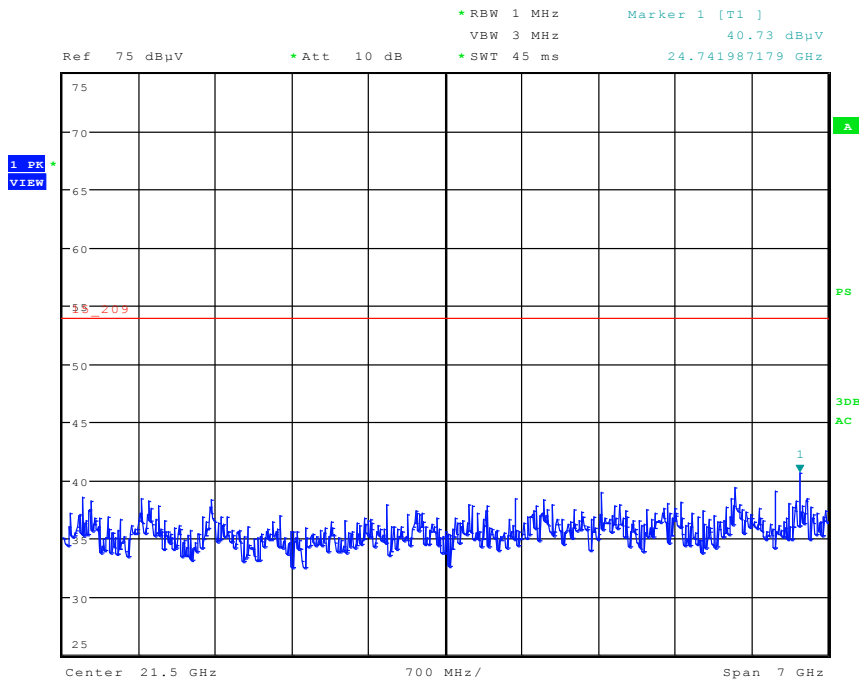


Carrier field strength Channel 11. Step 1



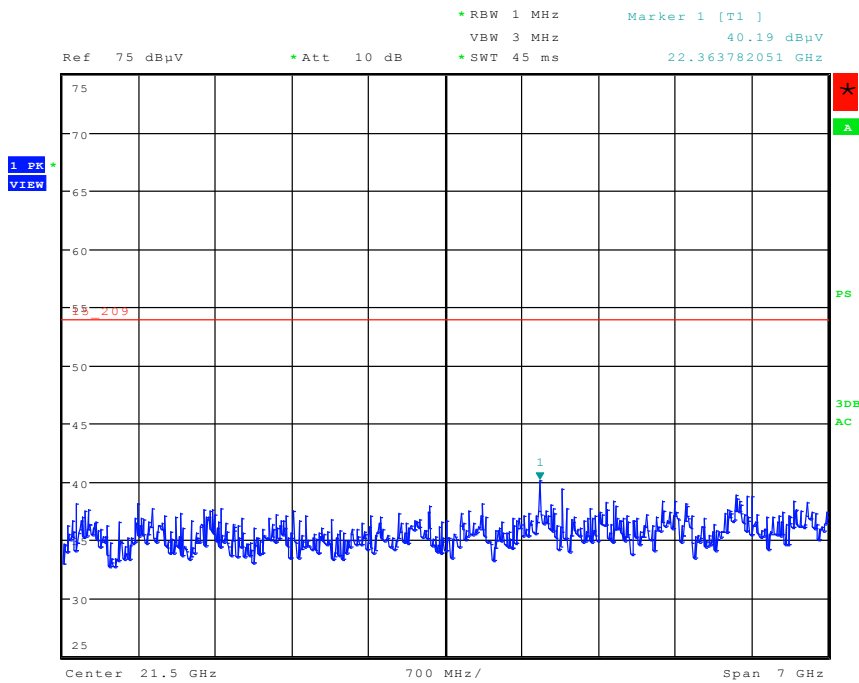
Band-Edge right, Channel 11, Step 2

### 1.7.5. Radiated emissions in the frequency range above 18GHz



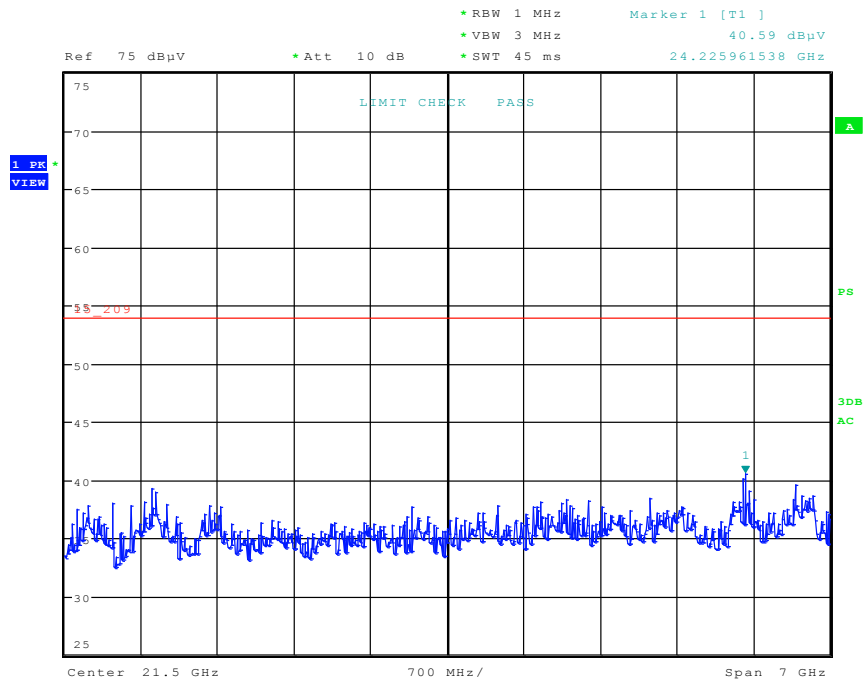
Date: 18.MAY.2011 09:15:08

Channel 1, g-Mode,9Mbit (overview measurement only)



Date: 18.MAY.2011 09:25:33

Channel 6, g-mode, 9Mbit (overview measurement only)



Date: 18.MAY.2011 09:32:18

Channel 11, g-mode, 9MBit (overview measurement only)

## 1.8. Radiated field strength (§15.109, Class B)

### 1.8.1. Radiated field strength (30MHz < f < 1GHz)

#### Diagram No. a\_2.31

##### Common Information

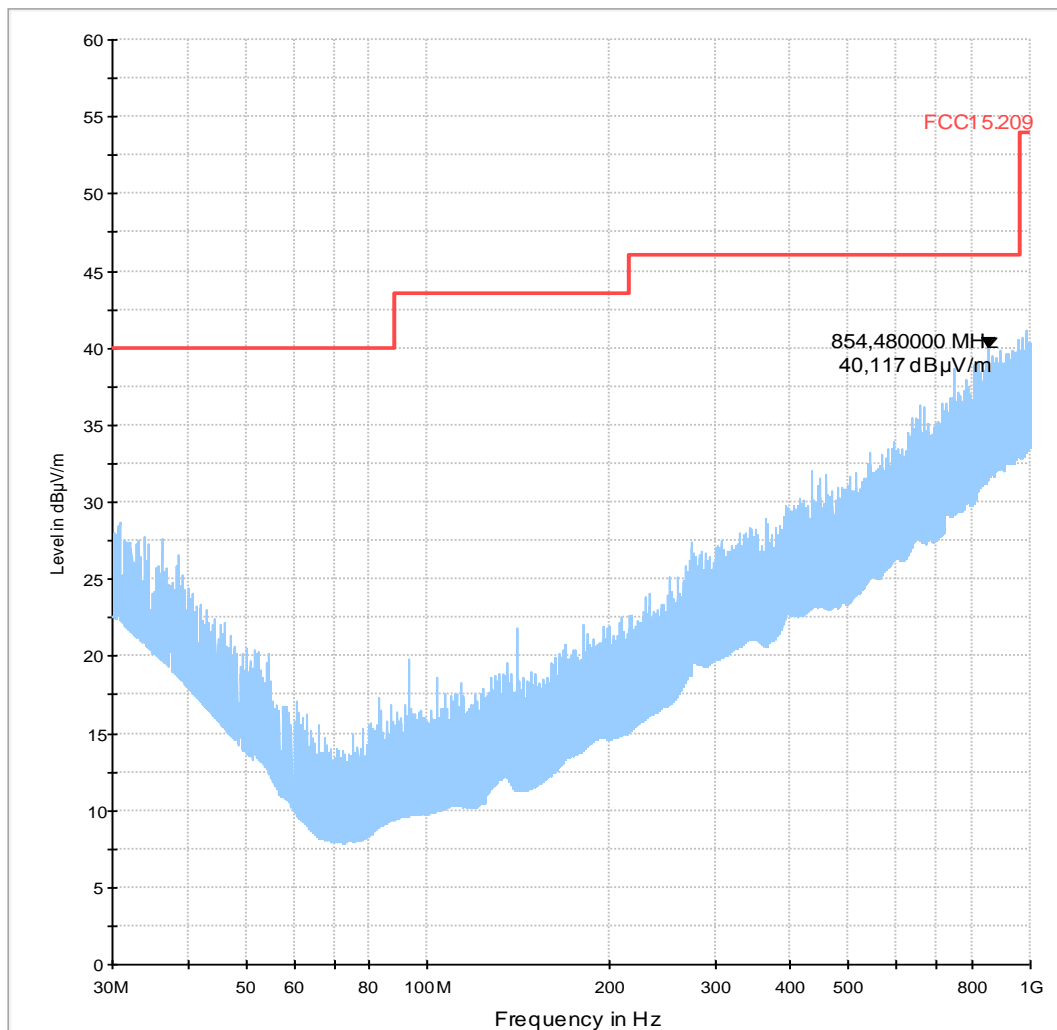
Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.109; RSS-Gen: Issue 3

Operator:	Tas
Operating conditions:	RX idle (WLAN)
Power during tests:	full battery
Comment 1:	EUT position horizontal

##### EUT Information

EUT type	AAD-3880110-BV
Manufacturer	Sony Ericsson
S/N	CB5A1CHVBR

01\_FCC15.209\_hor+vert\_KP0



EMI Auto Test Template: 01\_FCC15.209\_hor+vert\_KP0

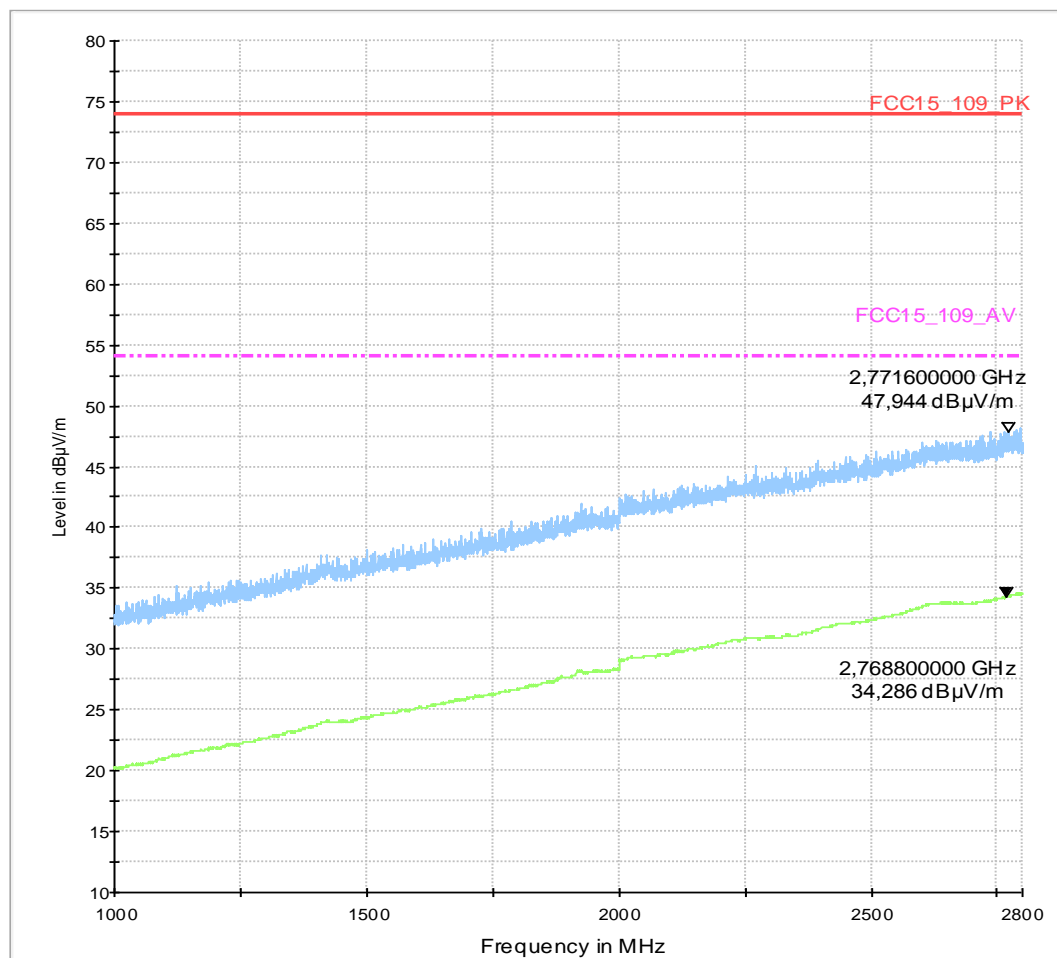
**1.8.2. Radiated field strength (1GHz < f < 12.75GHz)****Diagram No.: a\_2.32****Common Information**

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	WLAN RX-Mode; g-Mode, 6Mbps, Channel 7
Operator Name:	Tas

**EUT Information**

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Comment:	WLAN technology

Sweep1\_SM1\_K0



EMI Auto Test Template: Sweep1\_SM1\_K0

## Diagram No.: a\_2.33

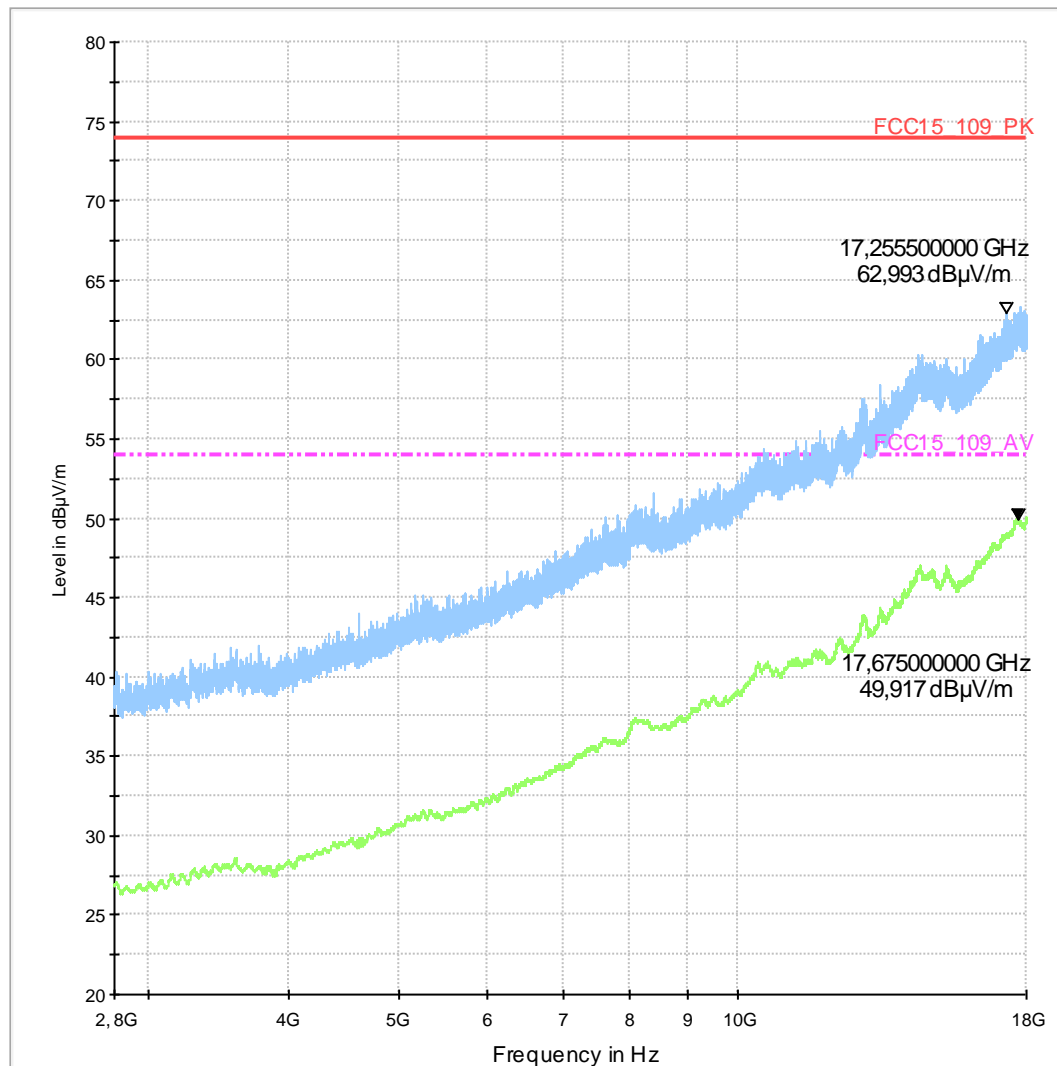
**Common Information**

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator Class B, RSS-Gen.
Antenna polarisation:	horizontal/vertical
Operation mode:	WLAN RX-Mode; g-Mode, 6Mbps, Channel 7
Operator Name:	Tas

**EUT Information**

EUT Name:	AAD-3880110-BV
Manufacturer:	SEM
Serial Number:	CB5A1CHVHS (Sample WLAN rad#2)
Comment:	WLAN technology

Sweep2\_SM1\_K0



EMI Auto Test Template: Sweep2\_SM1\_K0