







ANNEX 1:
MEASUREMENT DIAGRAMS
TO
TEST REPORT
No.: 2-0004-11-17-1C

for
SONY ERICSSON MOBILE COMMUNICATIONS AB
GSM/(E)GPRS/W-CDMA MOBILE PHONE AAD-3880122-BV
+
FCC-ID: PY7A3880122
IC: 4170B-A3880122

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FCC FEDERAL COMMUNICATIONS COMMISSION U.S.A. Reg. No.: 736496 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 VCEI Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2665, R-2666 C-2914, T-1967, G-301
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 CTIA Authorized Test Lab LAB CODE 20011130-00		
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1. Measurement diagrams

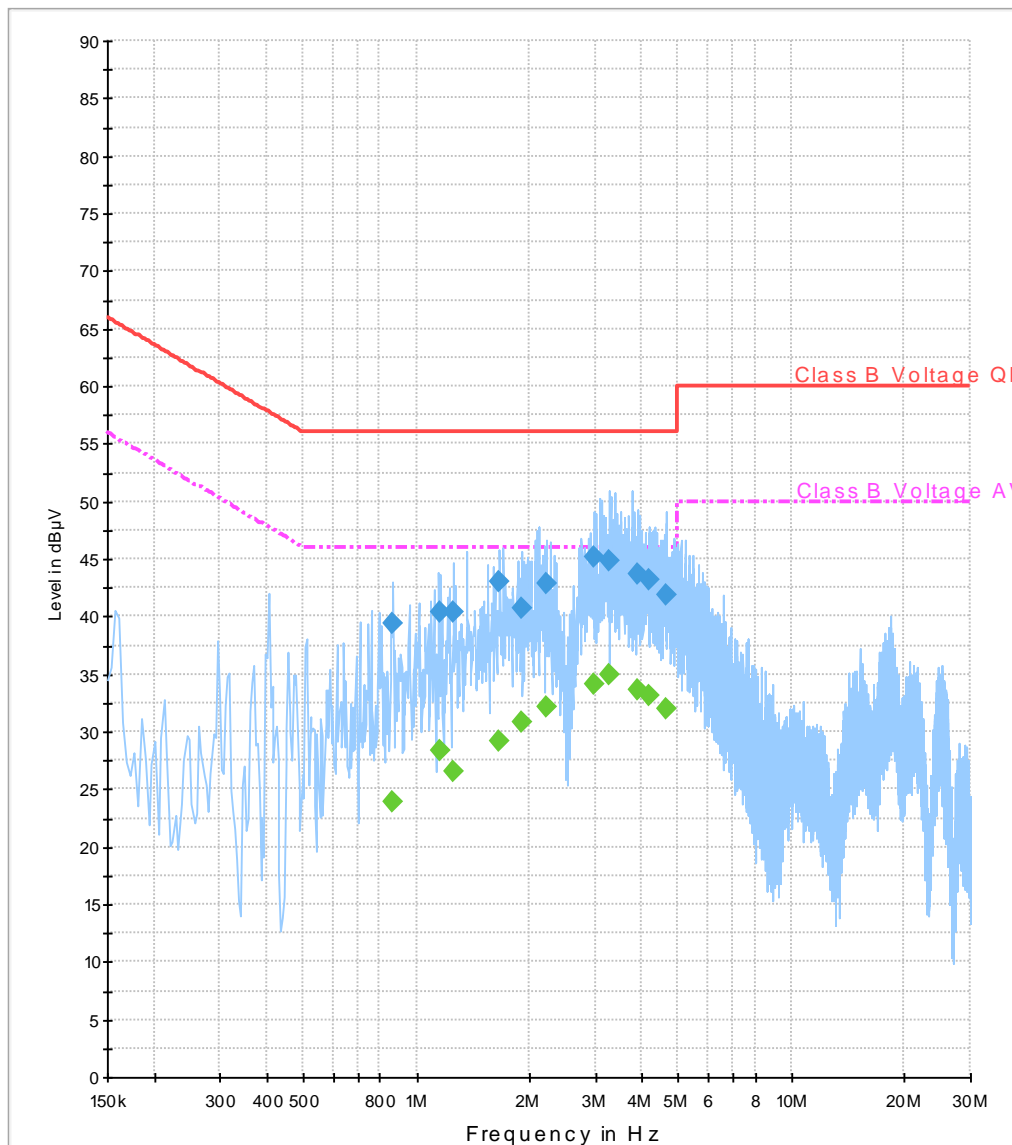
1.1. Conducted emissions on AC-mains: RX-Mode

Diagram No. C_1.01

Test Description:	Date: 17.08.2011 Page 1 of 2
Testspezifikation:	Conducted Voltage Measurement Class B
Technical Data:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
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.	OOu 2-0004/17-11-1C

EUT:	AAD-3880122-BV + EC700 + CAA-0002016-BV + DDA-0002005
Manufacturer:	Sony Ericsson
Operating mode:	GSM850 Rx, BT active + MP3
Measured on line:	Mains AC L1 and N
Power during test:	110 V AC 60 Hz
Serial Number:	#CB5A1EZR82

01_Class B_Voltage_PK_QPAV_N_L1



Date: 17.08.2011 Page 1 of 3

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.862344	39.4	15000.0	9.000	GND	L1	0.1	16.6	56.0
1.154219	40.5	15000.0	9.000	GND	L1	0.1	15.5	56.0
1.252969	40.4	15000.0	9.000	GND	L1	0.1	15.6	56.0
1.657031	43.1	15000.0	9.000	GND	L1	0.1	12.9	56.0
1.916406	40.7	15000.0	9.000	GND	L1	0.1	15.3	56.0
2.220625	42.9	15000.0	9.000	GND	L1	0.1	13.1	56.0
2.974531	45.2	15000.0	9.000	GND	L1	0.1	10.8	56.0
3.284688	44.9	15000.0	9.000	GND	L1	0.1	11.1	56.0
3.884688	43.7	15000.0	9.000	GND	L1	0.1	12.3	56.0
4.190469	43.1	15000.0	9.000	GND	L1	0.1	12.9	56.0
4.650781	41.9	15000.0	9.000	GND	L1	0.1	14.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.862344	23.8	15000.0	9.000	GND	L1	0.1	22.2	46.0
1.154219	28.4	15000.0	9.000	GND	L1	0.1	17.6	46.0
1.252969	26.5	15000.0	9.000	GND	L1	0.1	19.5	46.0
1.657031	29.2	15000.0	9.000	GND	L1	0.1	16.8	46.0
1.916406	30.8	15000.0	9.000	GND	L1	0.1	15.2	46.0
2.220625	32.1	15000.0	9.000	GND	L1	0.1	13.9	46.0
2.974531	34.1	15000.0	9.000	GND	L1	0.1	11.9	46.0
3.284688	34.9	15000.0	9.000	GND	L1	0.1	11.1	46.0
3.884688	33.6	15000.0	9.000	GND	L1	0.1	12.4	46.0
4.190469	33.2	15000.0	9.000	GND	L1	0.1	12.8	46.0
4.650781	32.0	15000.0	9.000	GND	L1	0.1	14.0	46.0

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: 0 dBµV - 90 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

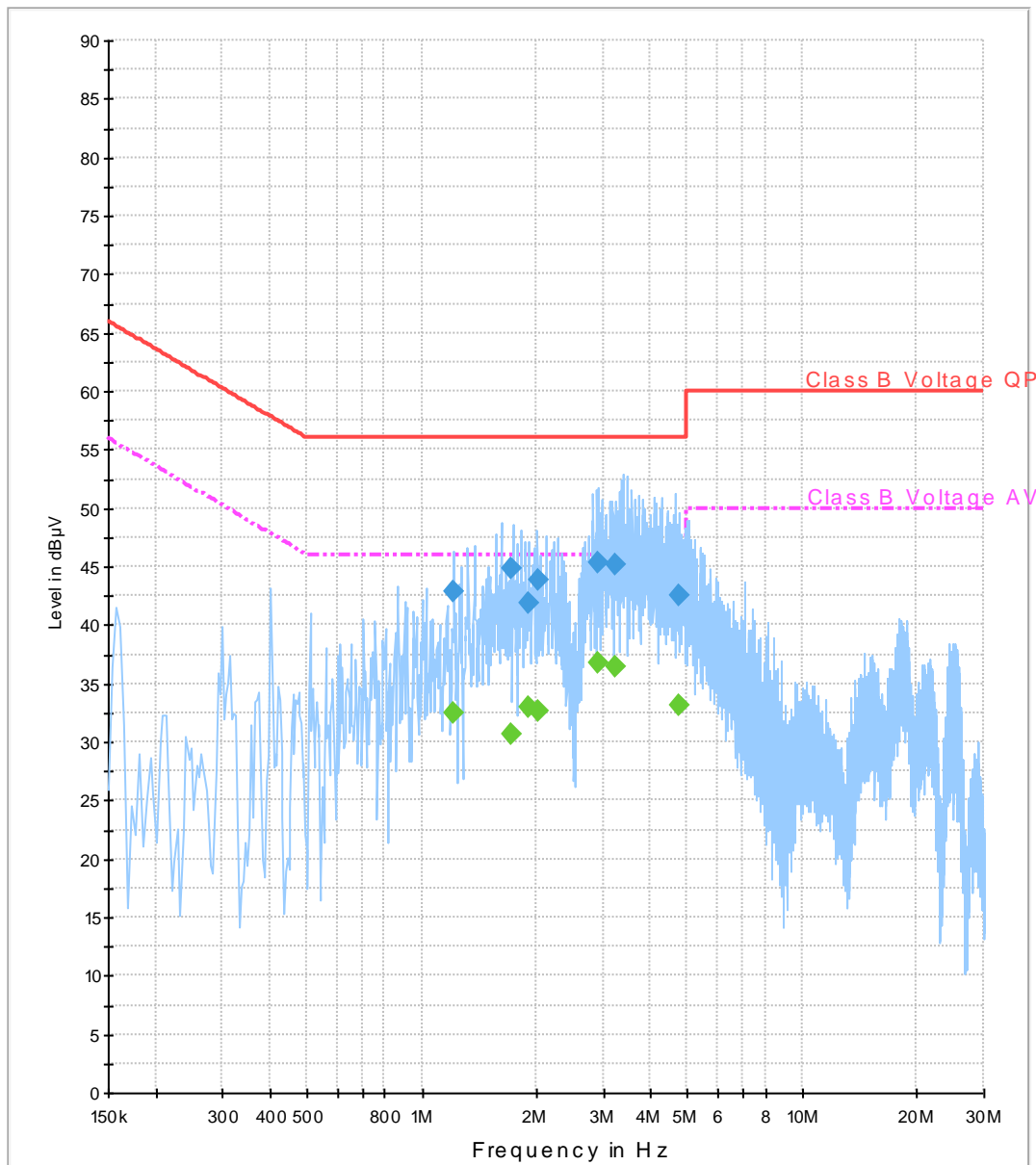
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	4.5 kHz	QPK; CAV	200 Hz	15 s	0 dB
150 kHz - 30 MHz	4.5 kHz	QPK; CAV	9 kHz	15 s	0 dB

Receiver: [ESCS 30]

Diagram No. C_1.02

Test Description:	Date: 17.08.2011 Page 1 of 2
Testspecification:	Conducted Voltage Measurement Class B
Technical Data:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
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.	OOu 2-0004/17-11-1C
EUT:	AAD-3880122-BV + EC700 + CAA-0002016-BV + CCA-0004013
Manufacturer:	Sony Ericsson
Operating mode:	GSM 1900 Rx + GPS
Measured on line:	Mains AC L1 and N
Power during test:	110 V AC 60 Hz
Serial Number:	#CB5A1EZR82

01_Class B_Voltage_PK_QPAV_N_L1



Date: 17.08.2011 Page 1 of 2

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.216094	42.8	15000.0	9.000	GND	L1	0.1	13.2	56.0
1.719531	44.9	15000.0	9.000	GND	L1	0.1	11.1	56.0
1.908125	41.9	15000.0	9.000	GND	L1	0.1	14.1	56.0
2.026875	43.9	15000.0	9.000	GND	L1	0.1	12.1	56.0
2.909219	45.4	15000.0	9.000	GND	L1	0.1	10.6	56.0
3.221250	45.2	15000.0	9.000	GND	L1	0.1	10.8	56.0
4.764063	42.6	15000.0	9.000	GND	L1	0.1	13.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.216094	32.4	15000.0	9.000	GND	L1	0.1	13.6	46.0
1.719531	30.6	15000.0	9.000	GND	L1	0.1	15.4	46.0
1.908125	32.9	15000.0	9.000	GND	L1	0.1	13.1	46.0
2.026875	32.6	15000.0	9.000	GND	L1	0.1	13.4	46.0
2.909219	36.8	15000.0	9.000	GND	L1	0.1	9.2	46.0
3.221250	36.5	15000.0	9.000	GND	L1	0.1	9.5	46.0
4.764063	33.2	15000.0	9.000	GND	L1	0.1	12.8	46.0

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: 0 dBµV - 90 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

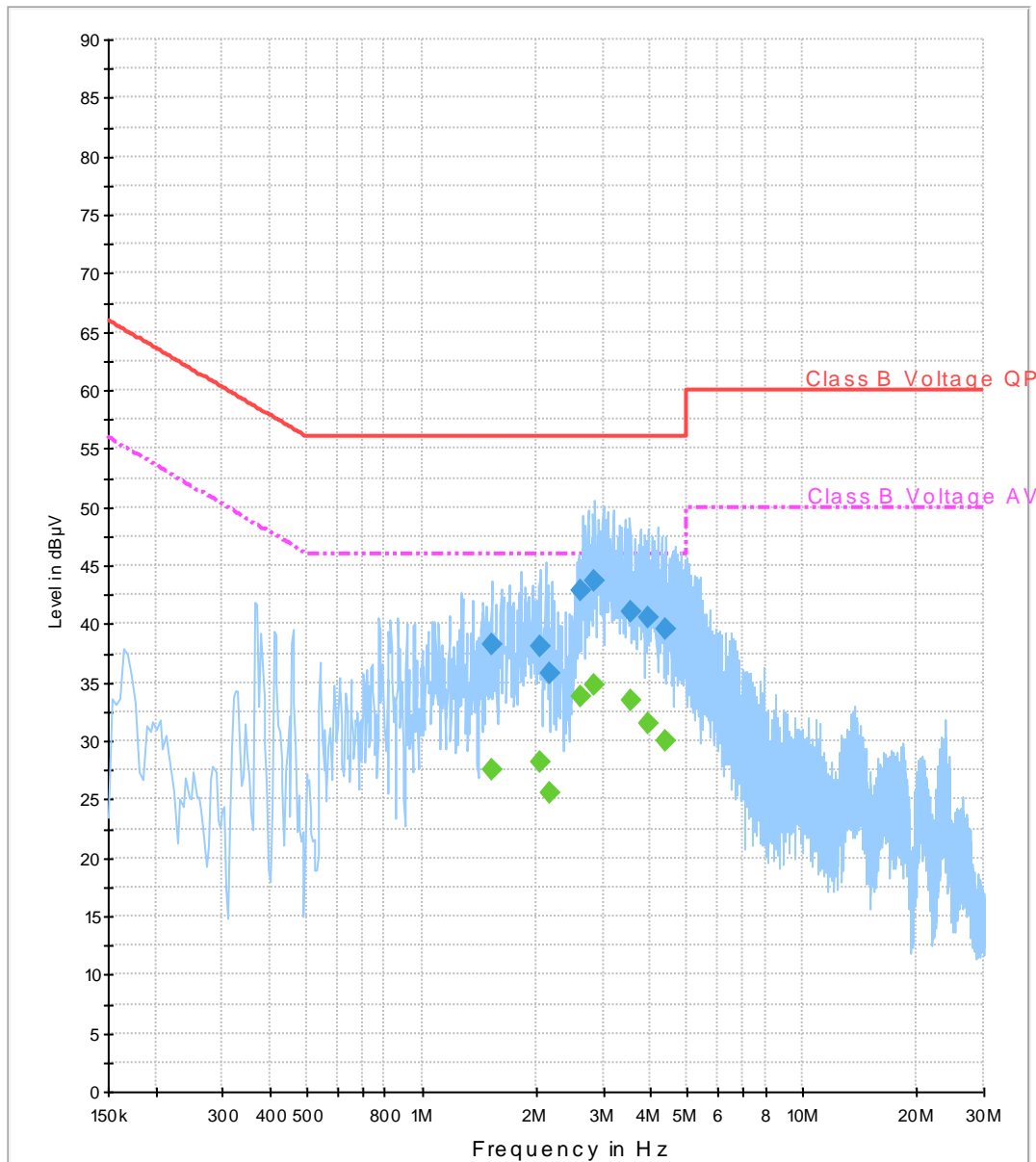
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	4.5 kHz	QPK; CAV	200 Hz	15 s	0 dB
150 kHz - 30 MHz	4.5 kHz	QPK; CAV	9 kHz	15 s	0 dB

Receiver: [ESCS 30]

Diagram No. C_1.03

Test Description:	Date: 17.08.2011 Page 1 of 2
Testspecification:	Conducted Voltage Measurement Class B
Technical Data:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
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.	OOu 2-0004/17-11-1C
EUT:	AAD-3880122-BV + EC700 + CAA-0002016-BV + CCA-0004013
Manufacturer:	Sony Ericsson
Operating mode:	FDD 2 Rx + Radio FM
Measured on line:	Mains AC L1 and N
Power during test:	110 V AC 60 Hz
Serial Number:	#CB5A1EZR82

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)
1.536406	38.2	15000.0	9.000	GND	L1	0.1	17.8	56.0
2.048750	38.1	15000.0	9.000	GND	L1	0.1	17.9	56.0
2.172656	35.8	15000.0	9.000	GND	L1	0.1	20.2	56.0
2.621719	42.9	15000.0	9.000	GND	L1	0.1	13.1	56.0
2.845625	43.6	15000.0	9.000	GND	L1	0.1	12.4	56.0
3.533594	41.1	15000.0	9.000	GND	L1	0.0	14.9	56.0
3.949375	40.5	15000.0	9.000	GND	L1	0.1	15.5	56.0
4.374531	39.6	15000.0	9.000	GND	L1	0.1	16.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.536406	27.5	15000.0	9.000	GND	L1	0.1	18.5	46.0
2.048750	28.1	15000.0	9.000	GND	L1	0.1	17.9	46.0
2.172656	25.6	15000.0	9.000	GND	L1	0.1	20.4	46.0
2.621719	33.8	15000.0	9.000	GND	L1	0.1	12.2	46.0
2.845625	34.8	15000.0	9.000	GND	L1	0.1	11.2	46.0
3.533594	33.5	15000.0	9.000	GND	L1	0.0	12.5	46.0
3.949375	31.5	15000.0	9.000	GND	L1	0.1	14.5	46.0
4.374531	30.0	15000.0	9.000	GND	L1	0.1	16.0	46.0

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: 0 dBµV - 90 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

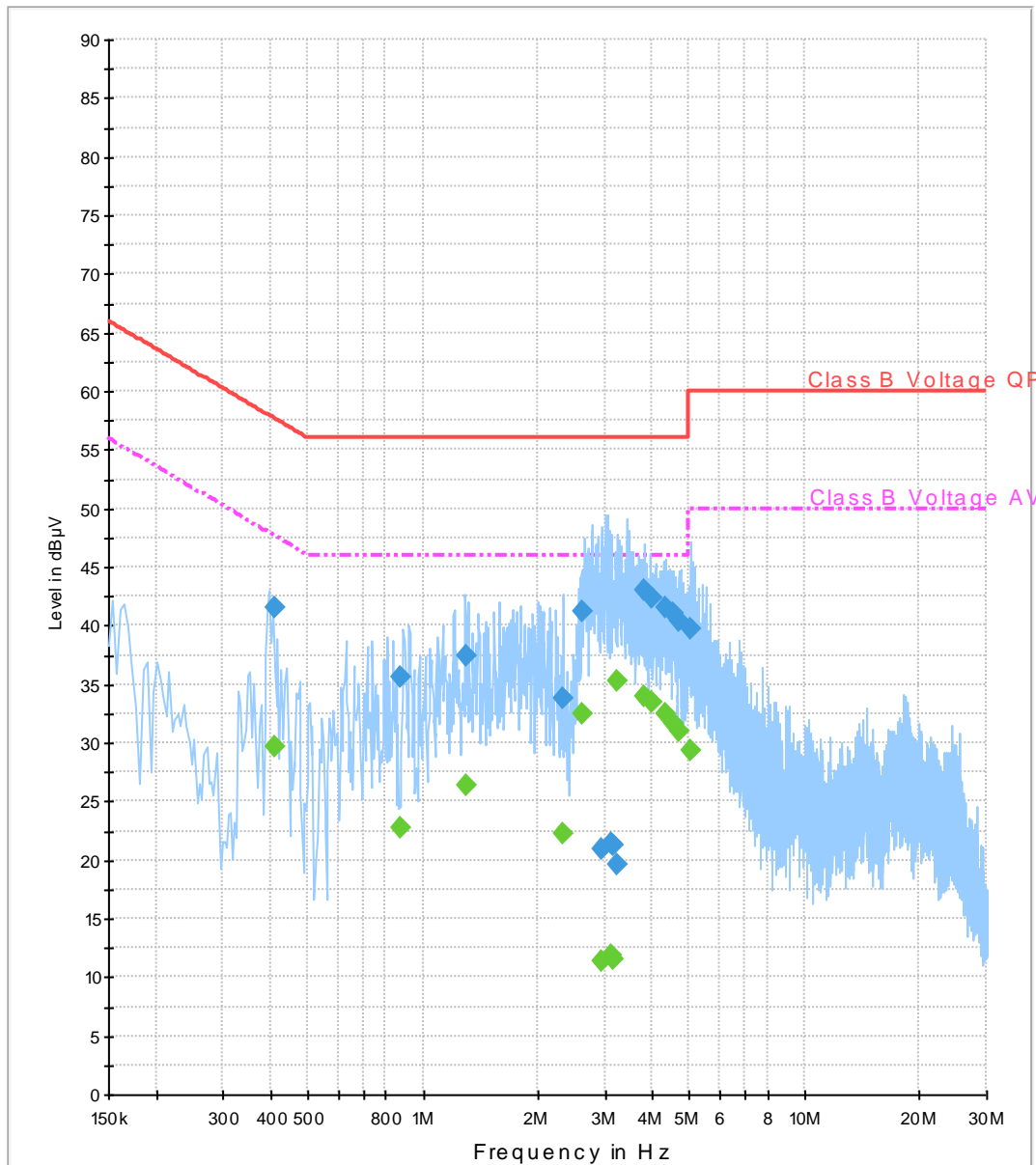
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	4.5 kHz	QPK; CAV	200 Hz	15 s	0 dB
150 kHz - 30 MHz	4.5 kHz	QPK; CAV	9 kHz	15 s	0 dB

Receiver: [ESCS 30]

Diagram No. C_1.04

Test Description:	Date: 17.08.2011 Page 1 of 2
Testspecification:	Conducted Voltage Measurement Class B
Technical Data:	EN 55011, EN 55022, FCC 15.107, VCCI TR (see Report for more details)
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.	OOu 2-0004/17-11-1C
EUT:	AAD-3880122-BV + EC700 + CAA-0002016-BV + CCA-0004013
Manufacturer:	Sony Ericsson
Operating mode:	FDD 5 Rx + WLAN + Neocore Prg
Measured on line:	Mains AC L1 and N
Power during test:	110 V AC 60 Hz
Serial Number:	#CB5A1EZR82

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)
0.408594	41.5	15000.0	9.000	GND	L1	0.0	16.2	57.7
0.873594	35.5	15000.0	9.000	GND	L1	0.1	20.5	56.0
1.293125	37.4	15000.0	9.000	GND	L1	0.1	18.6	56.0
2.335000	33.7	15000.0	9.000	GND	L1	0.0	22.3	56.0
2.620625	41.2	15000.0	9.000	GND	L1	0.1	14.8	56.0
2.929844	21.0	15000.0	9.000	GND	L1	0.1	35.0	56.0
3.112813	21.4	15000.0	9.000	GND	L1	0.1	34.6	56.0
3.137969	21.2	15000.0	9.000	GND	L1	0.1	34.8	56.0
3.238906	19.7	15000.0	9.000	GND	L1	0.1	36.3	56.0
3.805938	43.0	15000.0	9.000	GND	L1	0.1	13.0	56.0
3.961563	42.4	15000.0	9.000	GND	L1	0.1	13.6	56.0
4.323906	41.6	15000.0	9.000	GND	L1	0.1	14.4	56.0
4.515313	41.1	15000.0	9.000	GND	L1	0.1	14.9	56.0
4.697813	40.5	15000.0	9.000	GND	L1	0.1	15.5	56.0
5.025938	39.7	15000.0	9.000	GND	L1	0.1	20.3	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.408594	29.7	15000.0	9.000	GND	L1	0.0	18.0	47.7
0.873594	22.8	15000.0	9.000	GND	L1	0.1	23.2	46.0
1.293125	26.4	15000.0	9.000	GND	L1	0.1	19.6	46.0
2.335000	22.3	15000.0	9.000	GND	L1	0.0	23.7	46.0
2.620625	32.4	15000.0	9.000	GND	L1	0.1	13.6	46.0
2.929844	11.3	15000.0	9.000	GND	L1	0.1	34.7	46.0
3.112813	11.8	15000.0	9.000	GND	L1	0.1	34.2	46.0
3.137969	11.6	15000.0	9.000	GND	L1	0.1	34.4	46.0
3.238906	35.2	15000.0	9.000	GND	L1	0.1	10.8	46.0
3.805938	34.0	15000.0	9.000	GND	L1	0.1	12.0	46.0
3.961563	33.4	15000.0	9.000	GND	L1	0.1	12.6	46.0
4.323906	32.5	15000.0	9.000	GND	L1	0.1	13.5	46.0
4.515313	31.7	15000.0	9.000	GND	L1	0.1	14.3	46.0
4.697813	31.0	15000.0	9.000	GND	L1	0.1	15.0	46.0
5.025938	29.4	15000.0	9.000	GND	L1	0.1	20.6	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: 0 dBµV - 90 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]

1.2. Radiated field strength for emissions, 30MHz < f < 1000MHz

Diagram No. c_2.01

Common Information

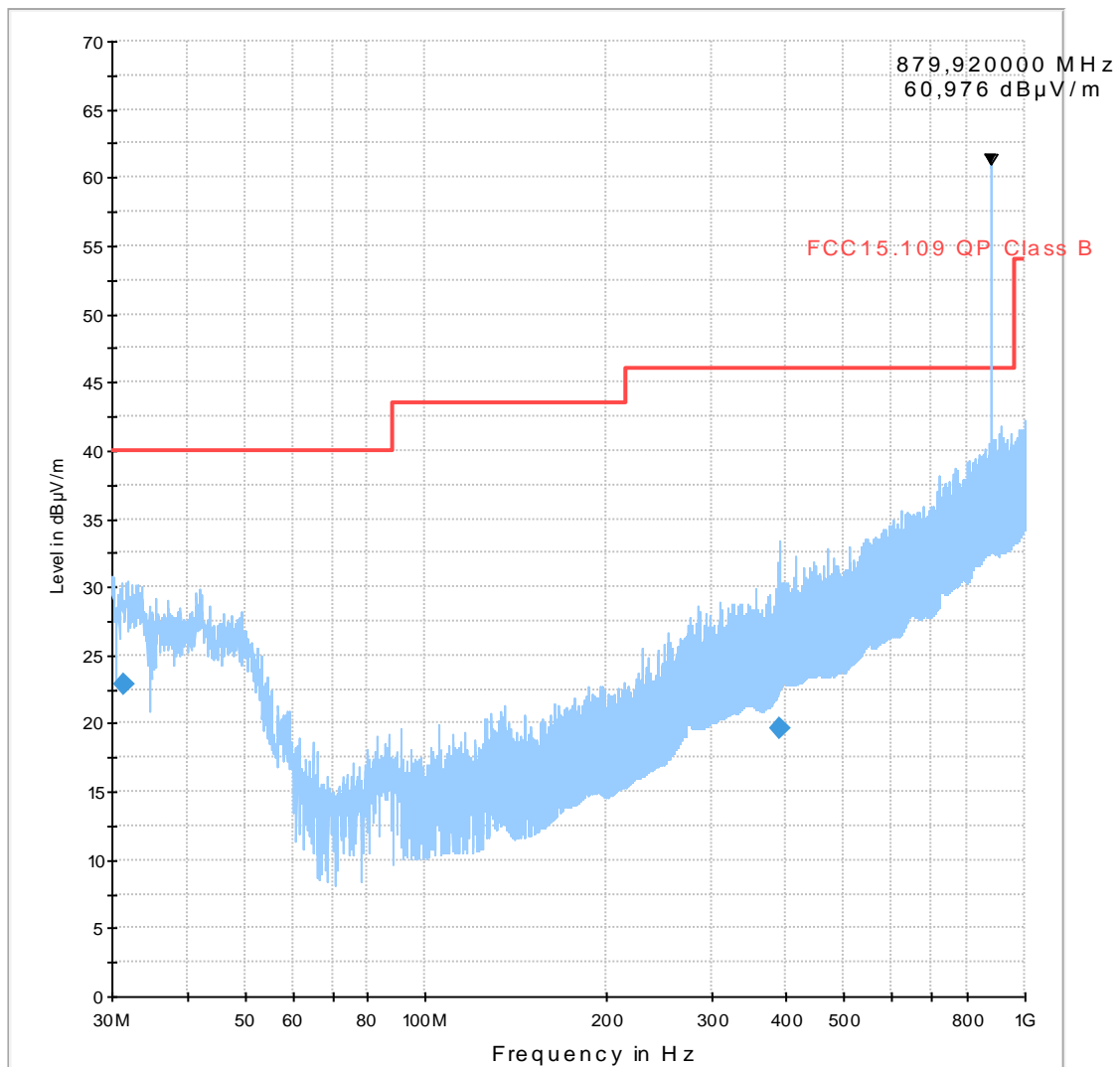
Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left, top, under
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal 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 Class B; RSS-Gen: Issue 3

Operator:	Lor
Operating conditions:	IDLE 850
Power during tests:	110V/60Hz
Comment 1:	Channel GSM middle

EUT Information

EUT Name:	AAD-3880122-BV + EC700 + CAA+0002016-BV + CCA-0004013
Manufacturer:	Sony Ericsson
S/N:	CB5A1EZR87

05_FCC15.109_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)
31.330000	22.9	1000.0	120.000	246.0	H	297.0	90.0	21.3	17.1	40.0
390.240000	19.7	1000.0	120.000	261.0	H	54.0	0.0	18.2	26.3	46.0

EMI Auto Test Template: 05_FCC15.109_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBµV/m - 60 dBµV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Positioning Speed = 4
 Polarization: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.109 QP Class B
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Elevation: Adjustment with full Range , Measuring Speed = 5
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

Diagram No. c_2.02

Common Information

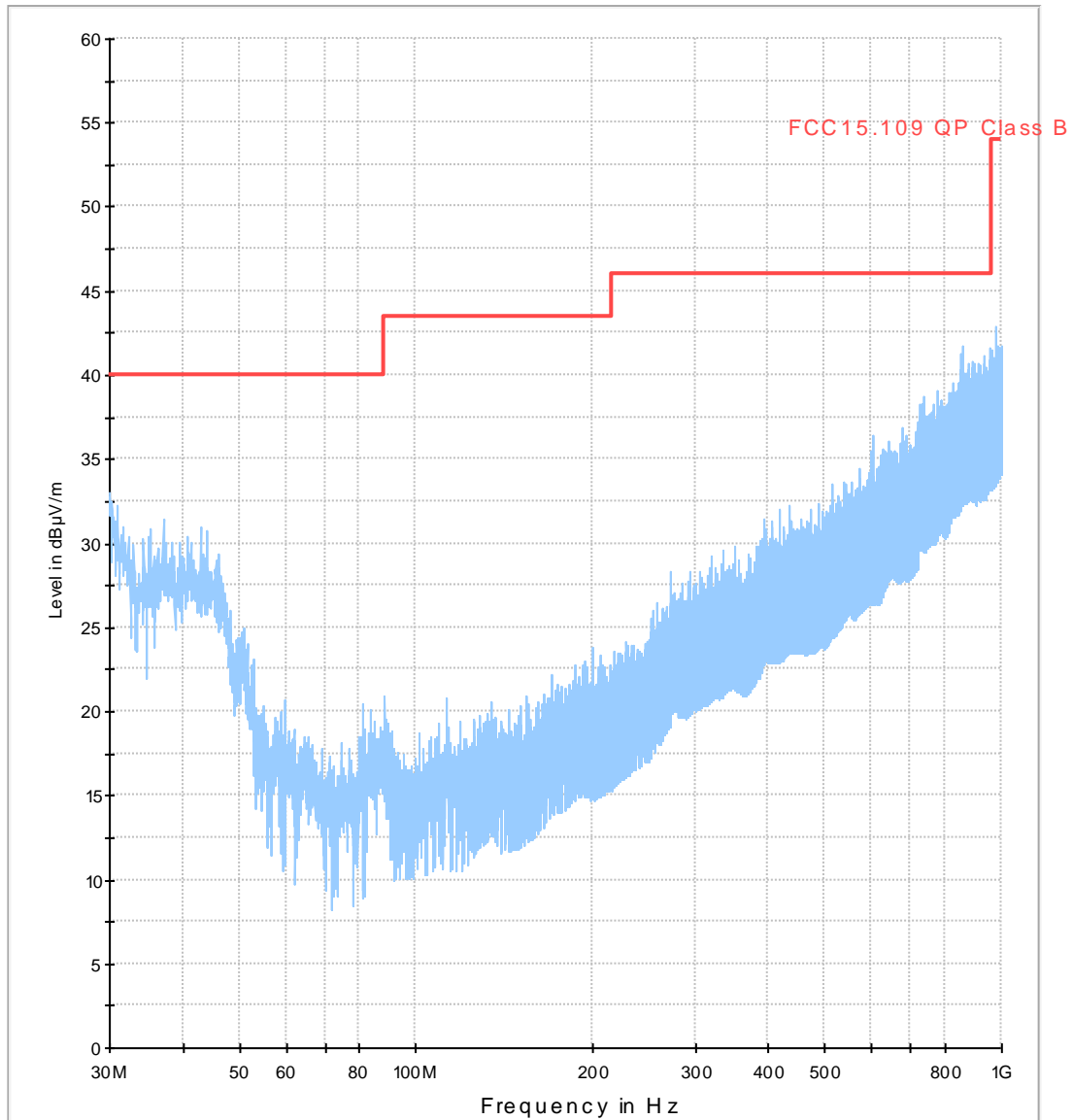
Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room covered with absorbers (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left,top,under side
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal 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:	HLa
Operating conditions:	IDLE FDD2+Radio
Power during tests:	110V/60Hz;

EUT Information

EUT Name:	AAD-3880122-BV + EC700 + CAA+0002016-BV + CCA-0004013
Manufacturer:	Sony Ericsson
S/N	CB5A1EZR87

05_FCC15.109_hor+vert_kipp



EMI Auto Test Template: 05_FCC15.109_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBµV/m - 60 dBµV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Positioning Speed = 4
 Polarization: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.109 QP Class B
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Elevation: Adjustment with full Range , Measuring Speed = 5
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

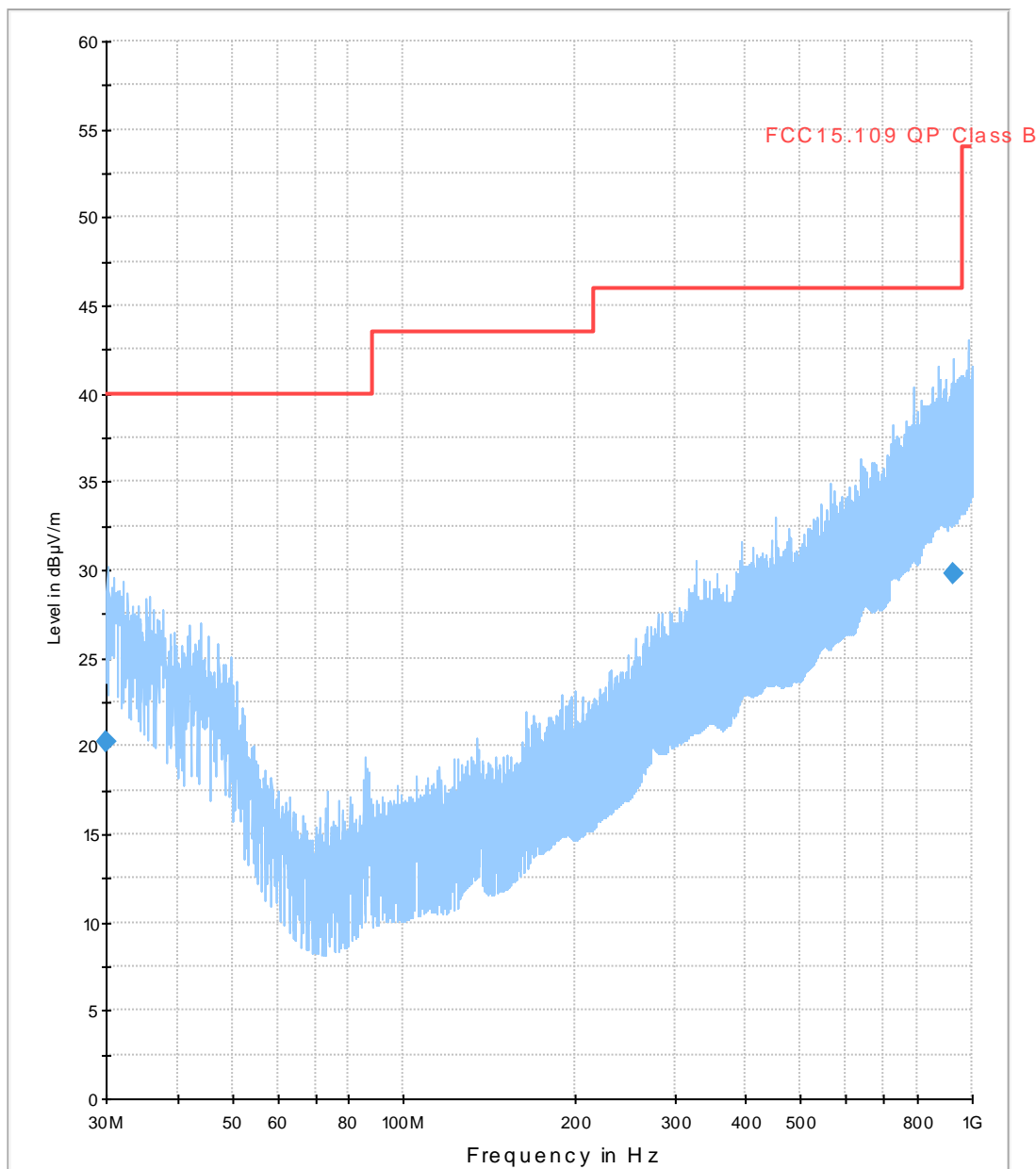
Diagram No. C_2.03

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 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	Lori
Operating conditions:	TX-on
Power during tests:	110V/60Hz; full loaded batteries
Comment 1:	Channel low/middle/high

05_FCC15.109_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)
30.070000	20.2	1000.0	120.000	368.0	H	241.0	90.0	21.8	19.8	40.0
927.280000	29.8	1000.0	120.000	221.0	V	270.0	0.0	26.5	16.2	46.0

EMI Auto Test Template: 05_FCC15.109_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBµV/m - 60 dBµV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Positioning Speed = 4
 Polarization: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.109 QP Class B
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Elevation: Adjustment with full Range , Measuring Speed = 5
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

Diagram No. c_2.04

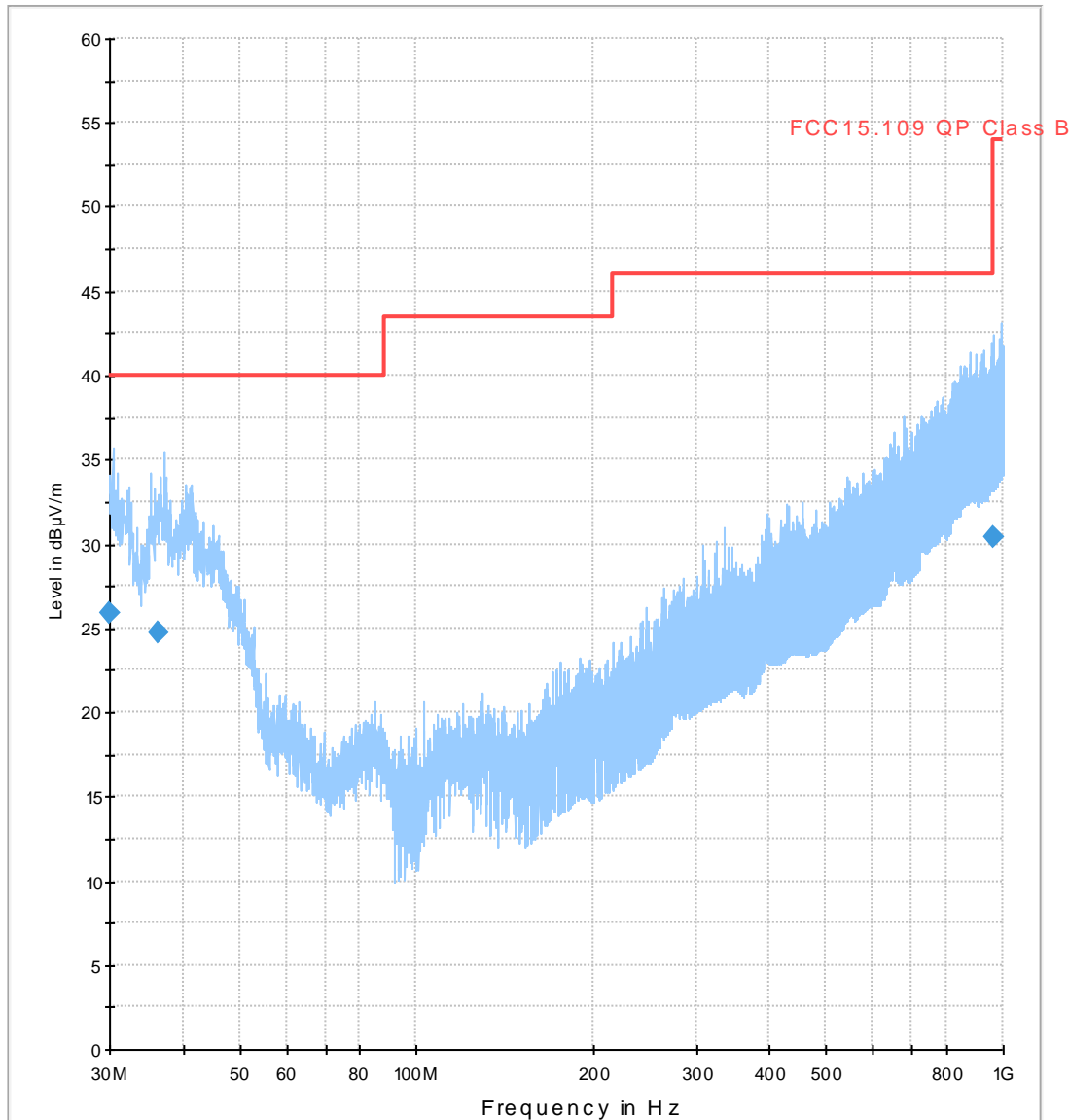
Common Information

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,top,under side
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
HW:	CB5A1EZR87
Operator:	HLA
Operating conditions:	IDLE FDD5
Power during tests:	110V/60Hz;

EUT Information

EUT Name:	AAD-3880122-BV + EC700 + CAA+0002016-BV + CCA-0004013
Manufacturer:	Sony Ericsson
S/N	CB5A1EZR87

05_FCC15.109_hor+vert_kipp



EMI Auto Test Template: 05_FCC15.109_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBµV/m - 60 dBµV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Positioning Speed = 4
 Polarization: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.109 QP Class B
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Elevation: Adjustment with full Range , Measuring Speed = 5
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:
 Report Template: FCC15_209_vert_hor
 Create Electronic Report: RTF PDF
 Document Name: EMI Report

Actions:
 Data Reduction: Before
 Notify: Sound (WAV file) 'tada.wav'
 Final Measurements: After
 Notify: Sound (WAV file) 'tada.wav'

Diagram No. C_2.11

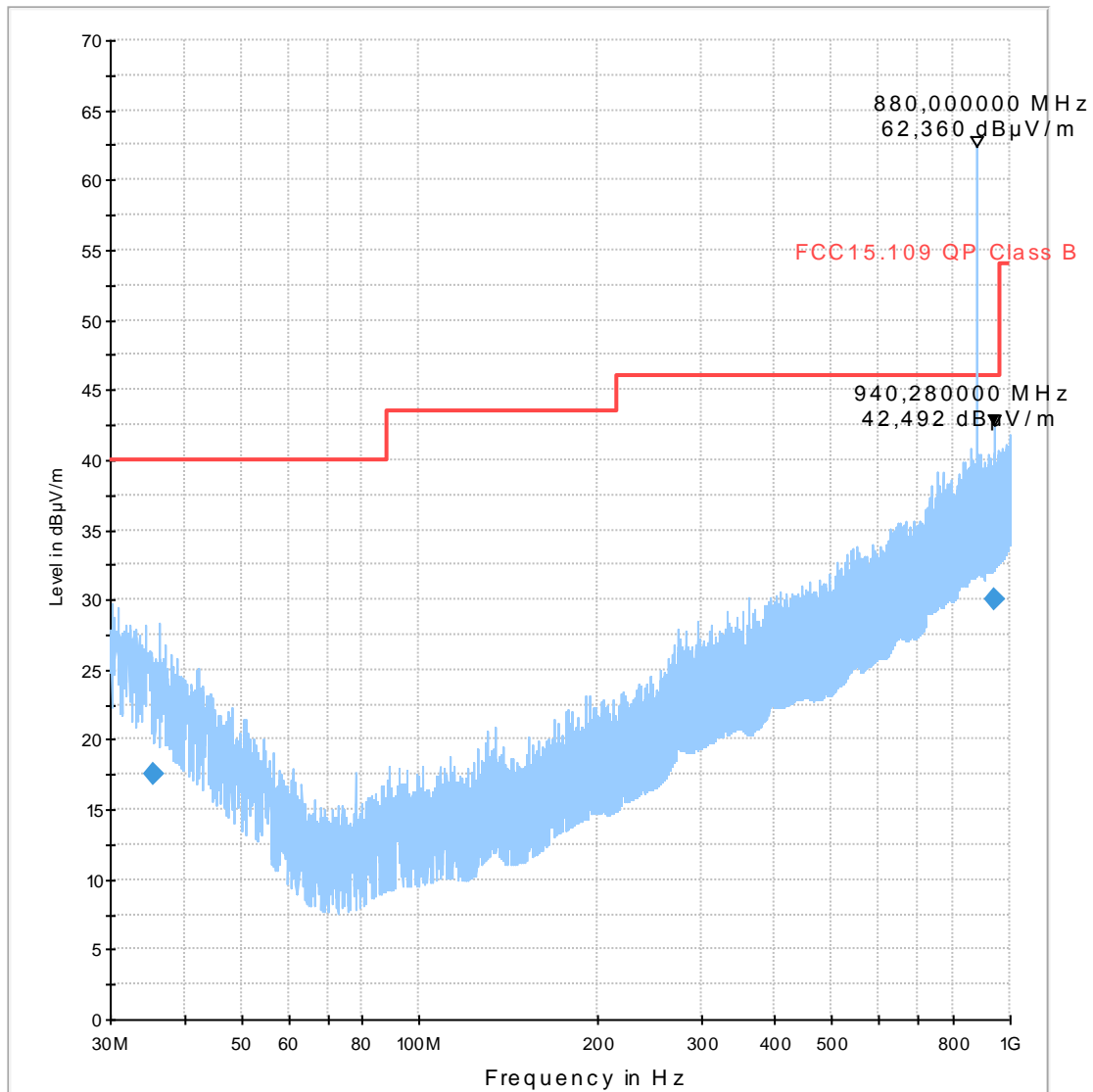
Common Information

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,top, under
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, class B
Operator:	Lor
Operating conditions:	IDLE RX850 + USB Data transfer + Neoncore Application
Power during tests:	full loaded batteries + power from USB cable
Comment 1:	Channel middle=182, BCCH on diagram

EUT Information

EUT Name:	ADD-3880121-BV + USB cable EC700 + Headset CCA-0004013
Manufacturer:	Sony Ericsson
S/N:	CB5A1EZR82

05_FCC15.109_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
35.560000	17.5	1000.0	120.000	294.0	H	124.0	90.0	19.3	22.5	40.0
939.730000	30.0	1000.0	120.000	172.0	V	347.0	90.0	26.6	16.0	46.0

EMI Auto Test Template: 05_FCC15.109_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dB μ V/m - 60 dB μ V/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Positioning Speed = 4
 Polarization: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.109 QP Class B
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Elevation: Adjustment with full Range , Measuring Speed = 5
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

1.3. Radiated field strength for emissions, $f > 1000\text{MHz}$

Diagramm C_2.05

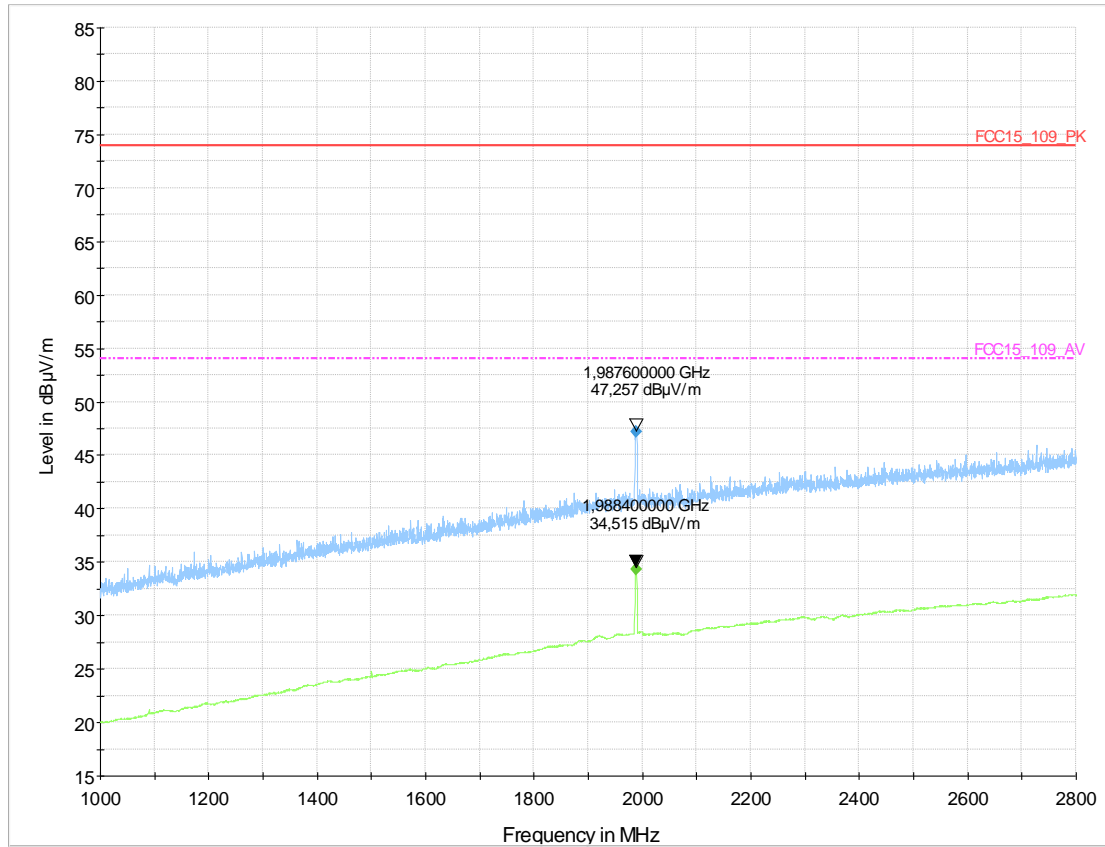


Diagram C_2.06

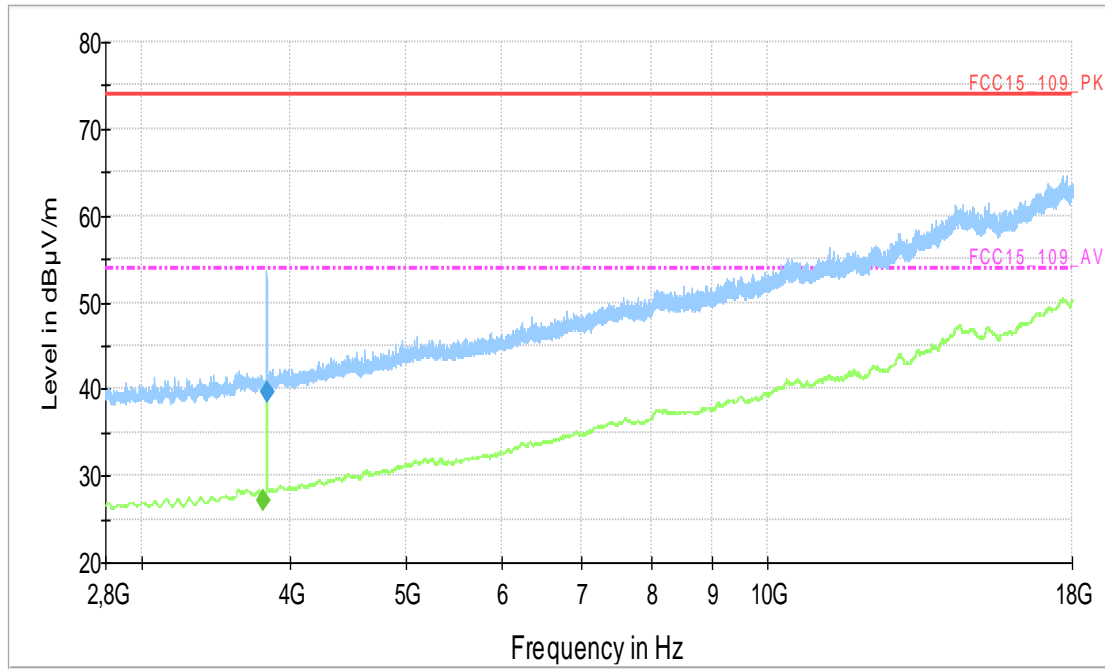
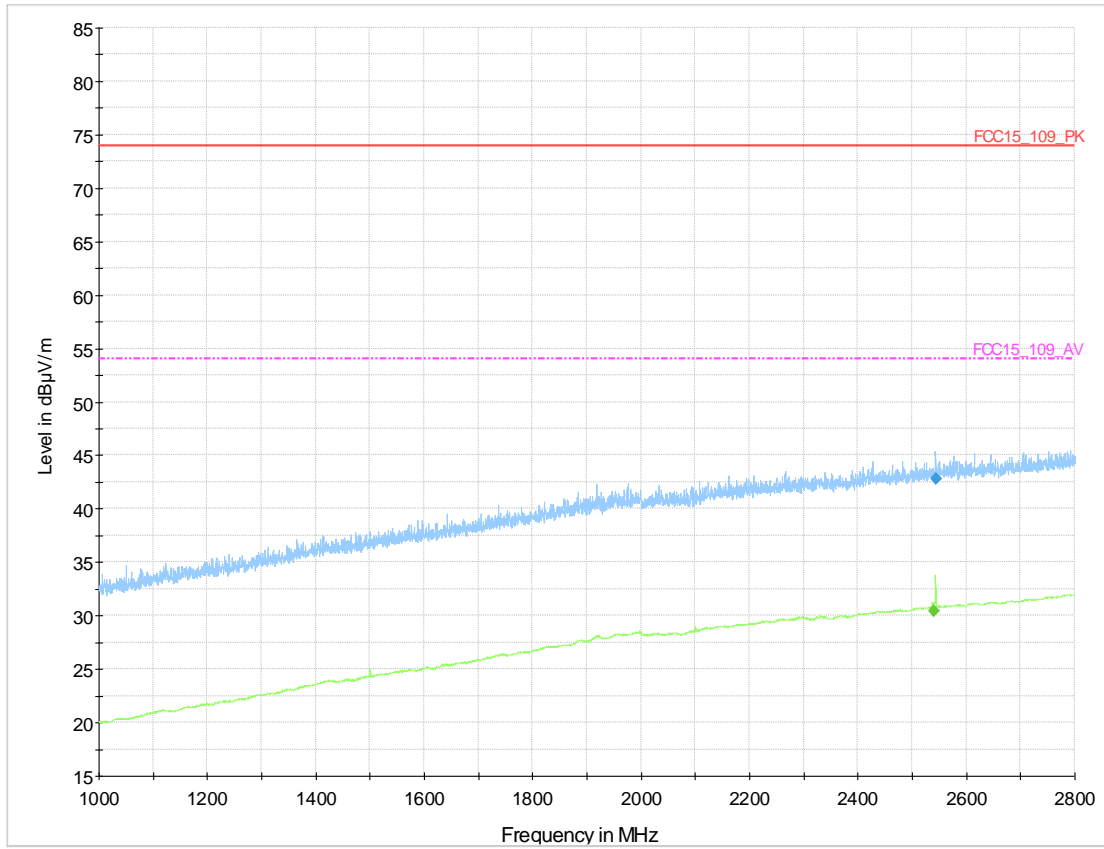


Diagram C_2.07



Digram C_2.08

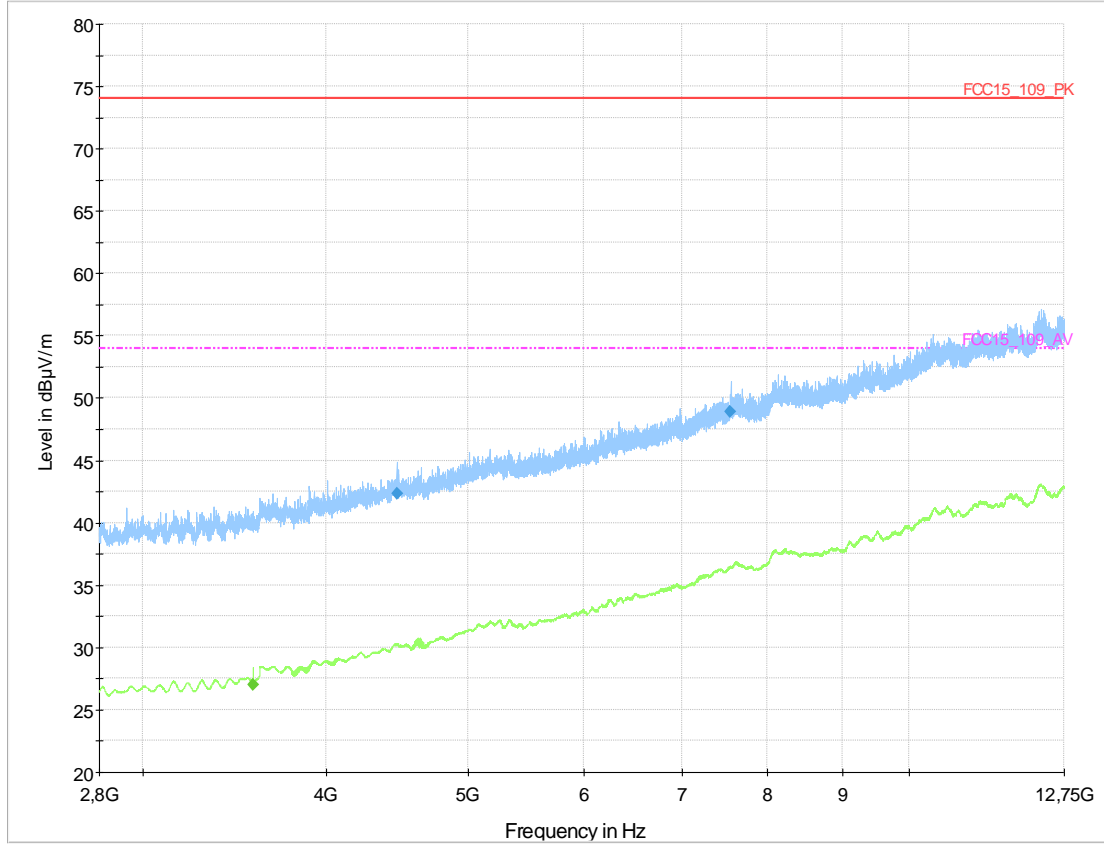


Diagram C_2.09

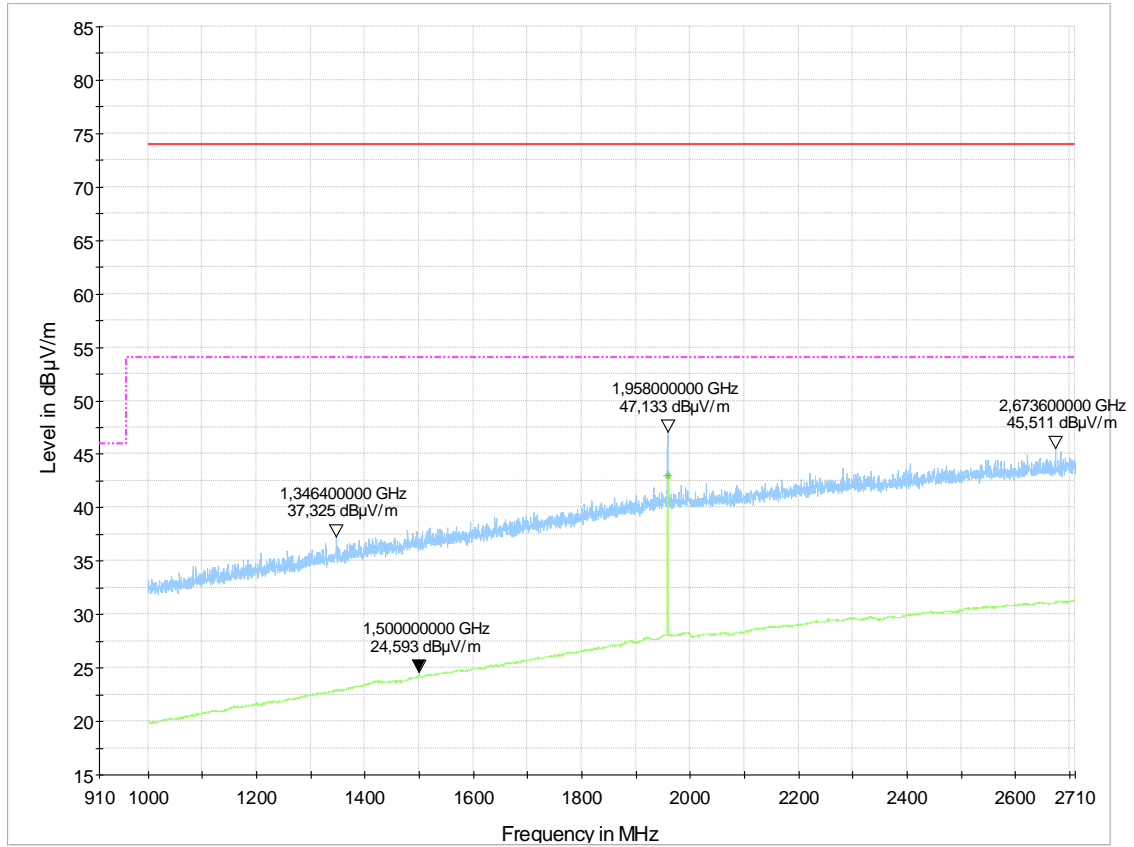


Diagram C_2.10

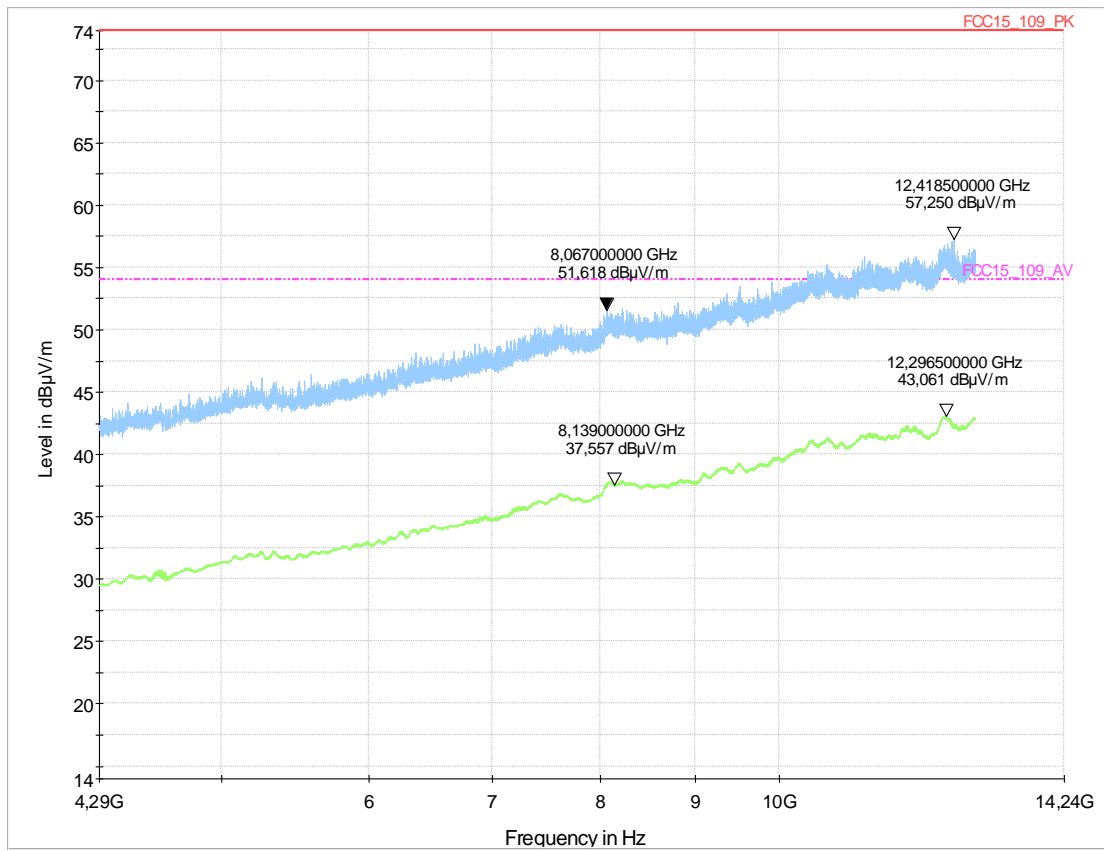


Diagram C_2.11

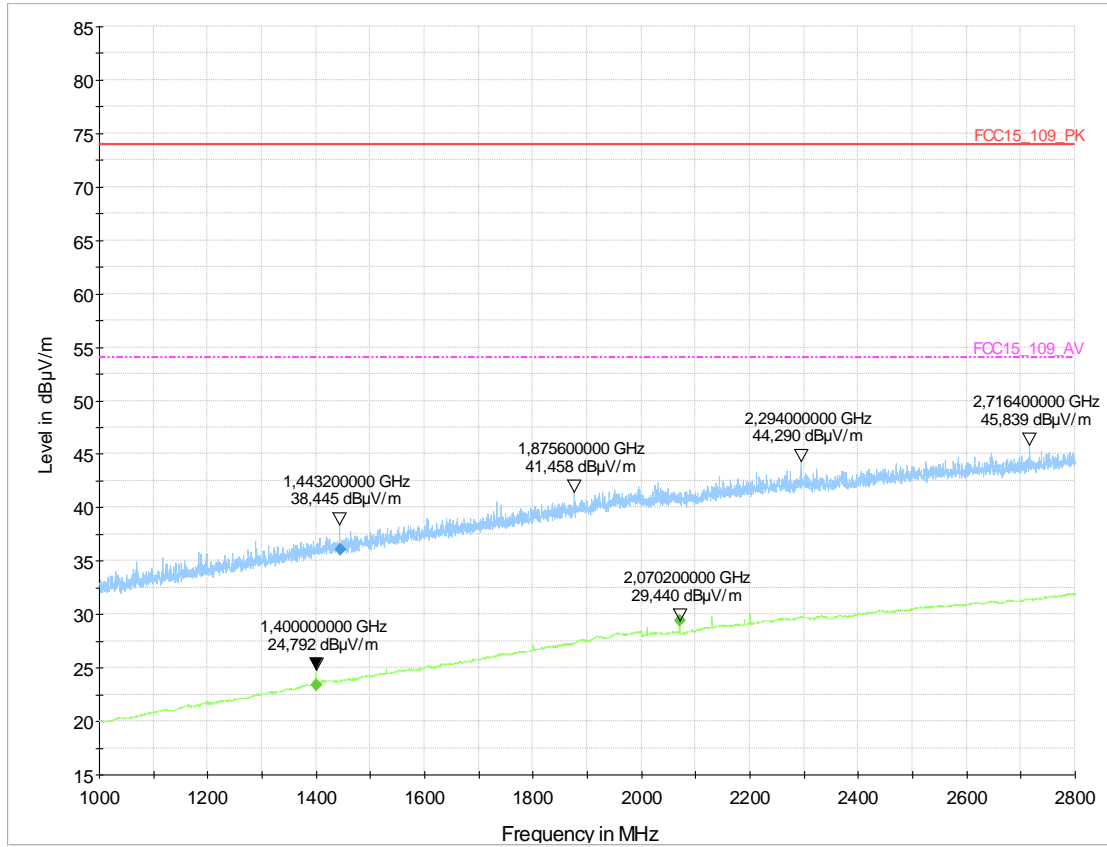


Diagramm C_2.12

