

Annex 4: Diagrams to
PARTIAL TEST REPORT
No.: 2-20823287I/13

According to:
FCC Regulations
Part 15.109, Part 15.247

for

Sony Mobile Communications

Tablet PC
(W-LAN 2.4GHz)

FCC-ID: PY7TM-0042

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION FCC USA Reg. No.: 736496 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 Authorized Test Lab LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com			

Table of contents

1. TRANSMITTER SPURIOUS EMISSIONS.....	3
1.1. Frequency range $f < 30\text{MHz}$	3
1.1.1. Frequency range $30\text{MHz} < f < 1\text{GHz}$	4
1.1.2. Frequency range $f > 1\text{GHz}$	9
1.2. Band Edge radiated	13
1.2.1. Right Band-Edge b-mode, channel 1.....	13
1.2.2. Left Band-Edge b-mode, channel 11.....	14
1.2.3. Right Band-Edge b-mode, 1Mbps, channel 1.....	15
1.2.4. Left Band-Edge b-mode, 1Mbps, channel 11.....	16
1.2.5. Left Band-Edge g-mode, 6Mbps, channel 1.....	17
1.2.6. Right Band-Edge g-mode, 6Mbps, channel 11.....	18
1.2.7. Right Band-Edge g-mode, 54Mbps, channel 1.....	19
1.2.8. Right Band-Edge g-mode, 54Mbps, channel 11.....	20
1.2.9. Right Band-Edge n-mode, MCS 0, channel 1.....	21
1.2.10. Left Band-Edge n-mode, MCS 0, channel 11.....	22
1.2.11. Right Band-Edge n-mode, MCS 3, channel 1.....	23
1.2.12. Left Band-Edge n-mode, MCS 3, channel 11.....	24
1.2.13. Right Band-Edge n-mode, MCS 7, channel 1.....	25
1.2.14. Left Band-Edge n-mode, MCS 7, channel 11.....	26
2. RECEIVER SPURIOUS EMISSIONS	27
2.1. Frequency range $f < 1\text{GHz}$	27
2.2. Frequency range $f > 1\text{GHz}$	28

1. Transmitter spurious emissions

1.1. Frequency range $f < 30\text{MHz}$

Diagram No. 2.04_Ch6_6Mbit

Test description: Magnetic Fieldstrength Measurement related to 30/300 m distance
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: 8.51.0
 Distance correction: used accord. table, pls. see test report
 Technical Data: Please see page 2 for detailed data of measurement setup
 Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation
 Used filter: bypass
 Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 3

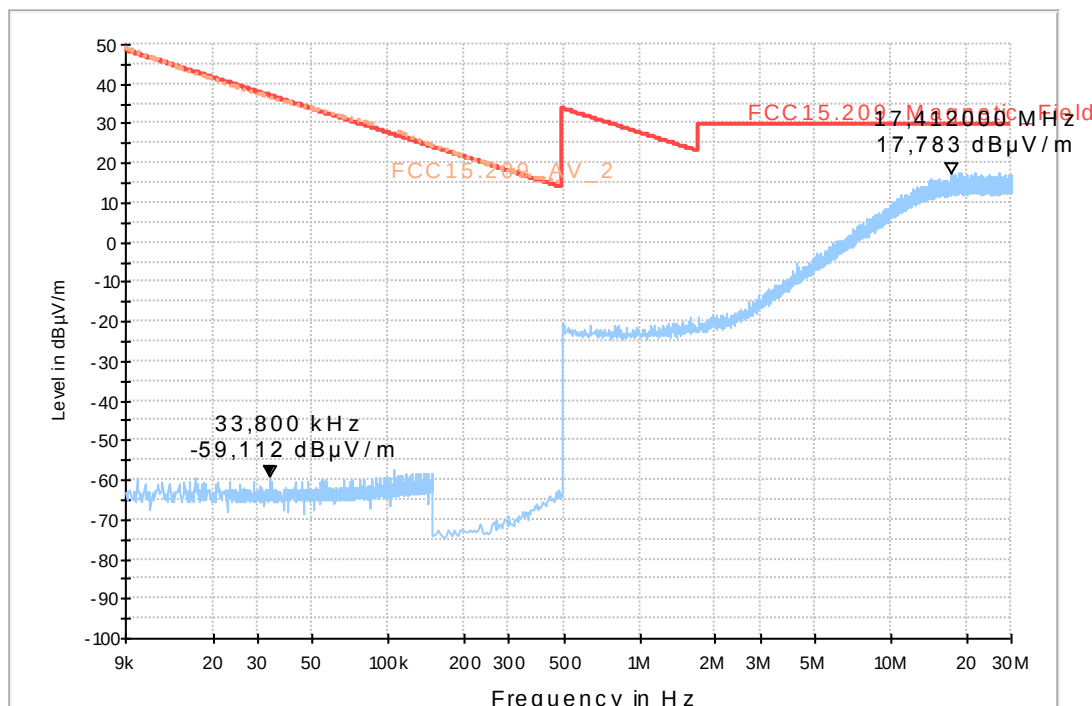
Operator: HLa
 Operating conditions: TX-on continuous, CH6_6MBit
 Power during tests: 12V DC, 110V/60Hz, full loaded batteries
 Comment 1: Channel middle
 Comment 2:

EUT Information

Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DPP9
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
 Comments: -

FCC15.209_magn hor+vert



1.1.1. Frequency range 30MHz<f<1GHz

Diagram No. 3.10_WLAN_Ch1_11MBit

13.03.2014 Page 1 of 2
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: 8.51.0
 Distance correction: not used
 Used filter: TP
 Technical Data: please see page 2 for detailed data of measurement setup
 Test specification.: FCC 15.209; RSS-Gen: Issue 3

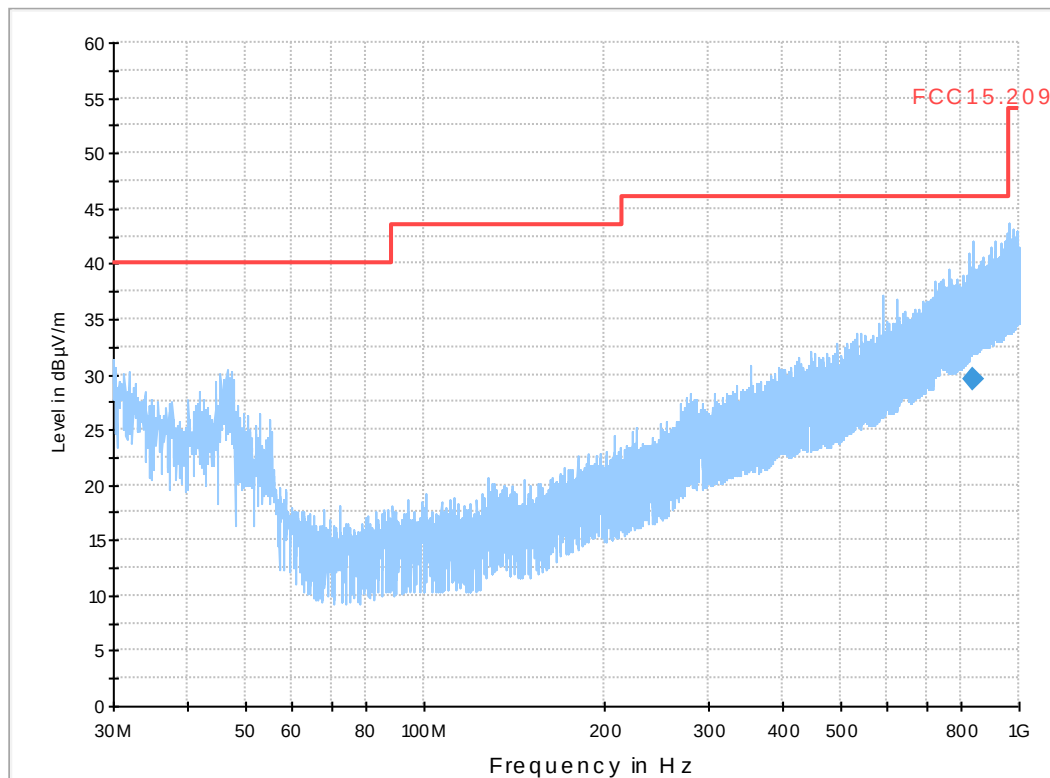
Operator: GAr / DPa
 Operating conditions: TX-on continuous, WLAN_Ch1_11MBit
 Power during tests: 120V 60Hz

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

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)
835.700000	29.6	1000.0	120.000	334.0	V	293.0	0.0	26.2	16.40

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dBμV/m)
835.700000	46.00

Diagram No. 3.11_WLAN_Ch6_6MBit

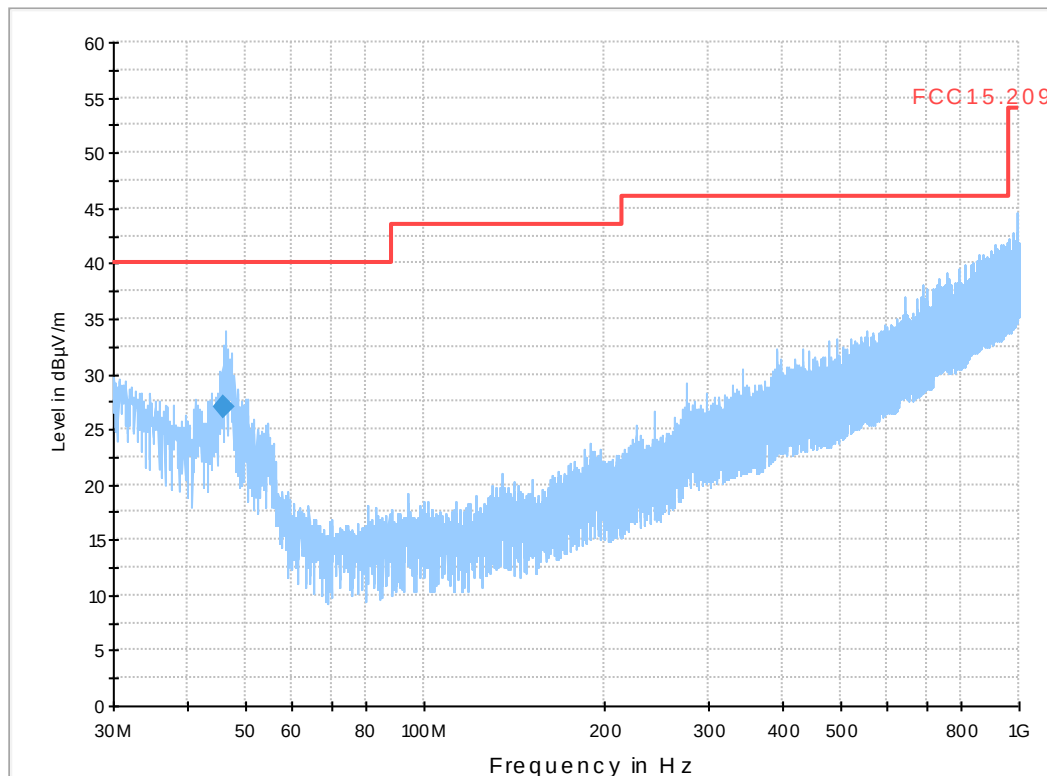
Test description:	13.03.2014 Page 1 of 2
Test site and distance:	Electric Fieldstrength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	8.51.0
Used filter:	not used
Technical Data:	TP
Test specification.:	please see page 2 for detailed data of measurement setup
	FCC 15.209; RSS-Gen: Issue 3
Operator:	GAr / DPa
Operating conditions:	TX-on continuous, WLAN_Ch6_6MBit
Power during tests:	120V 60Hz

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

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)
46.120000	27.0	1000.0	120.000	105.0	V	289.0	90.0	15.0	13.00

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dBμV/m)
46.120000	40.00

Diagram No. 3.12_WLAN_Ch11_MCS3

13.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: 8.51.0
 Distance correction: not used
 Used filter: TP
 Technical Data: please see page 2 for detailed data of measurement setup
 Test specification.: FCC 15.209; RSS-Gen: Issue 3

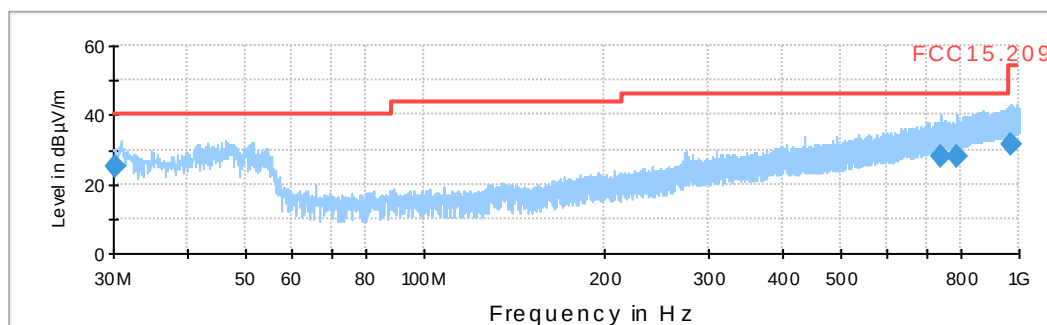
Operator: FTe
 Operating conditions: TX-on continuous, WLAN_Ch11_MCS3
 Power during tests: 120V 60Hz

EUT Information

Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DQ9V
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
 Comments: -

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)
30.130000	25.0	1000.0	120.000	148.0	H	192.0	90.0	22.0	15.00	40.00
740.850000	28.0	1000.0	120.000	368.0	H	356.0	90.0	24.7	18.00	46.00
785.700000	28.1	1000.0	120.000	209.0	H	216.0	90.0	25.2	17.90	46.00
972.020000	31.3	1000.0	120.000	184.0	V	75.0	90.0	27.7	22.70	54.00

1.1.2. Frequency range $f > 1\text{GHz}$

Diagram No.: 4.01_WLAN_Ch1_11MBit

Common Information

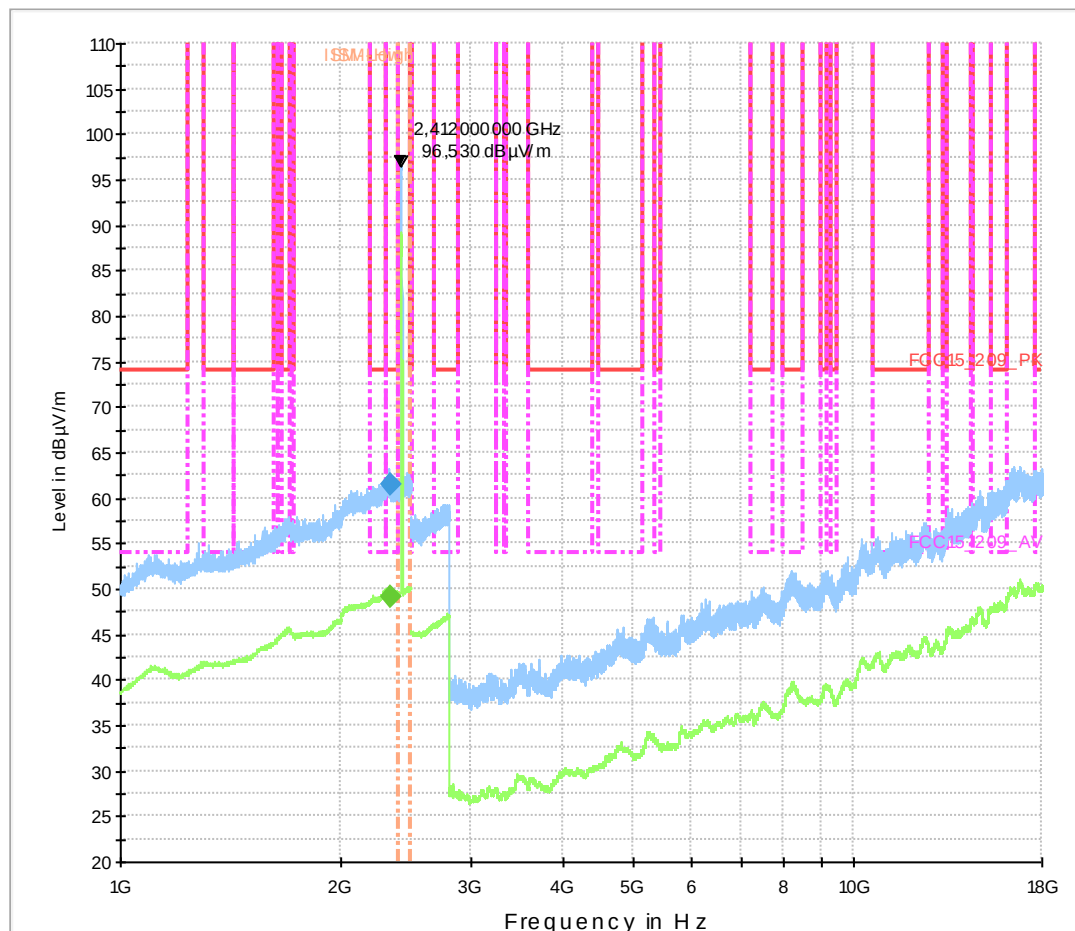
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	ABA
Comment:	Channel no. low=1

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA-/ LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_SM1_KP1_WLAN_500us



Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Measurement Time	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Correction (dB)	Margin (dB)	Limit (dBμV/m)
2334.500000	61.4	100.0	1000.000	155.0	V	100.0	0.0	35.7	12.6	74.0

(continuation of the "Final Result 1" table from column 11 ...)

Frequency	Comment
2334.500000	

Final Result 2

Frequency (MHz)	Average (dBμV/m)	Measurement Time	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Correction (dB)	Margin (dB)
2334.500000	49.0	100.0	1000.000	155.0	V	100.0	0.0	35.7	5.0

(continuation of the "Final Result 2" table from column 10 ...)

Frequency (MHz)	Limit (dBμV/m)	Comment
2334.500000	54.0	

Diagram No.: 4.02_WLAN_Ch6_6MBit

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:	ABA
Comment:	Channel no. middle=6
Op. Mode:	W-LAN 2.4GHz, g-Mode, 6Mbit

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_SM1_KP1_W LAN_500us

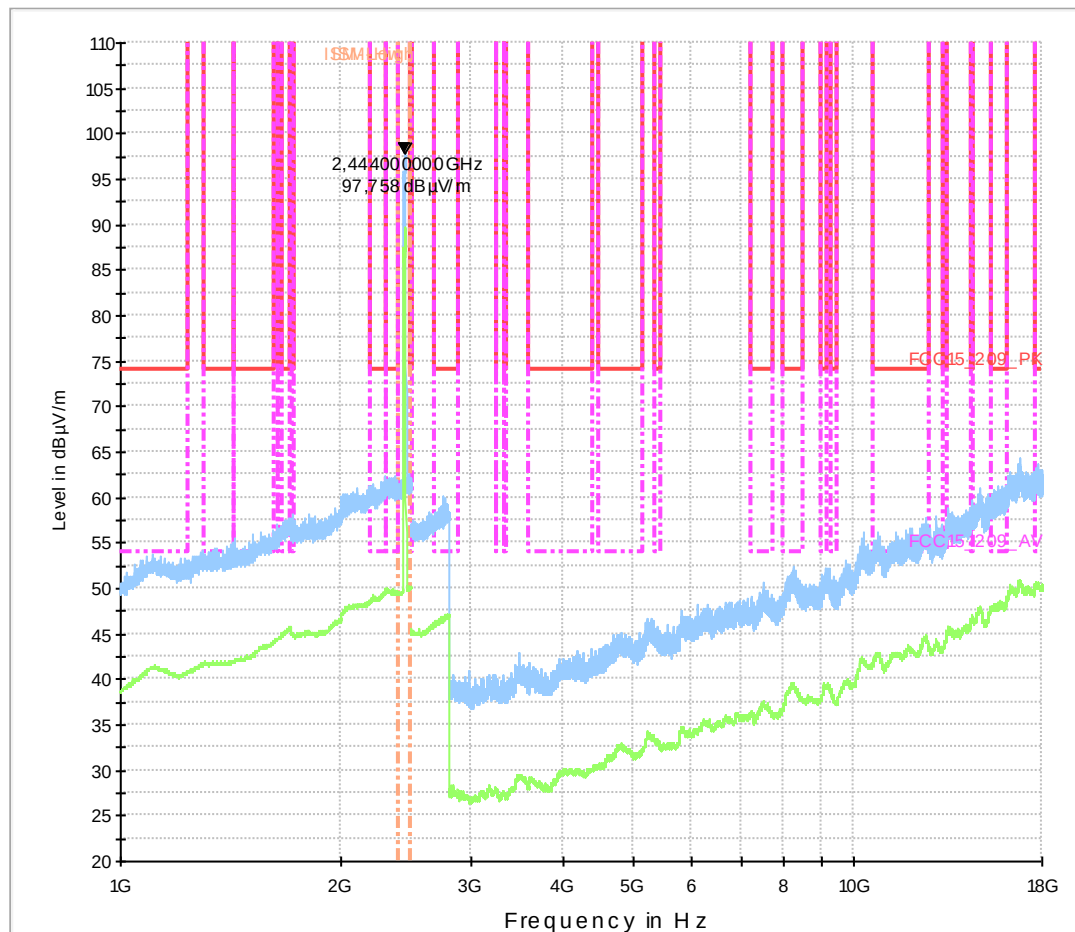


Diagram No.: 4.03_WLAN_Ch11_MCS3

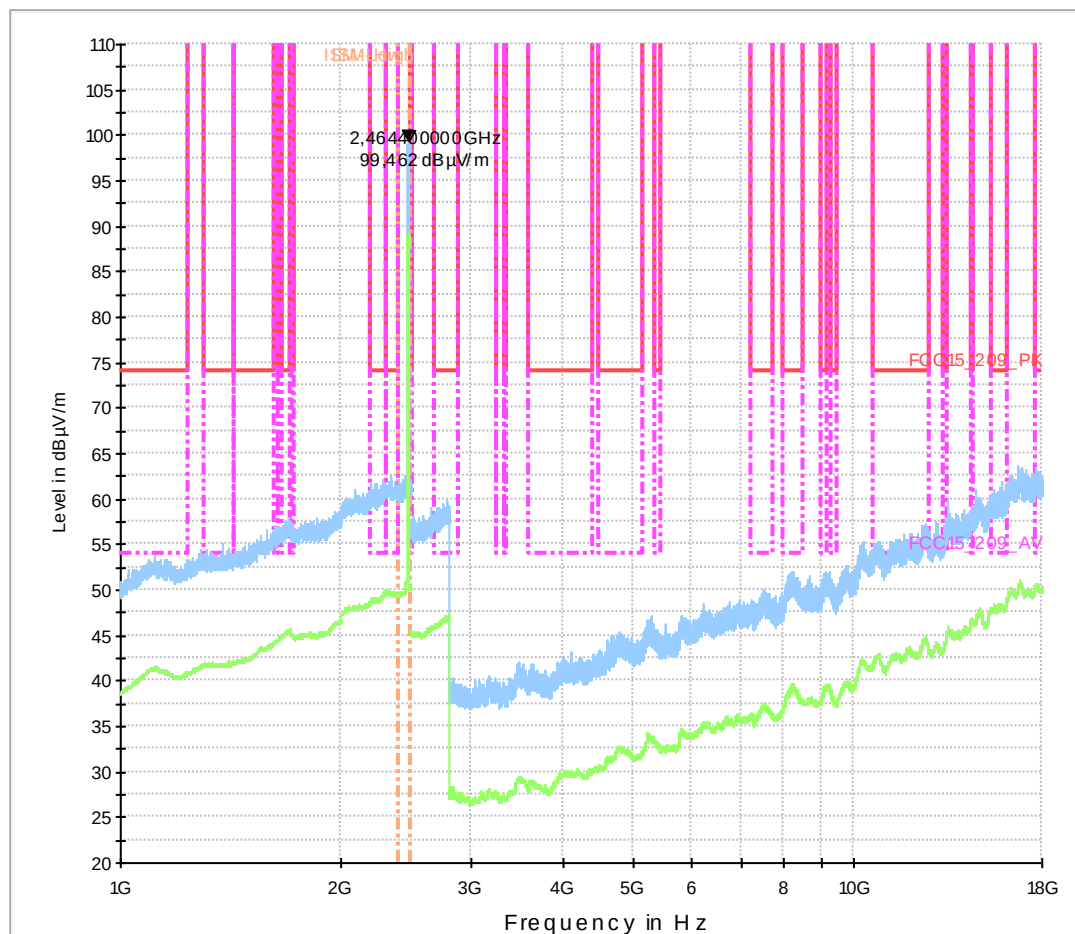
Common Information

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:	ABA
Comment:	Channel no. 11
Op. Mode:	W-LAN 2.4GHz, g-Mode, MCS3

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC
EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_SM1_KP1_W LAN_500us



1.2. Band Edge radiated

1.2.1. Right Band-Edge b-mode, channel 1

Diagram No.: 9.01_BE_WLAN_Ch1_11Mbit

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: ABA
 Comment: Channel no. low=1
 Op. Mode: W-LAN 2.4GHz, a-Mode, 11Mbit

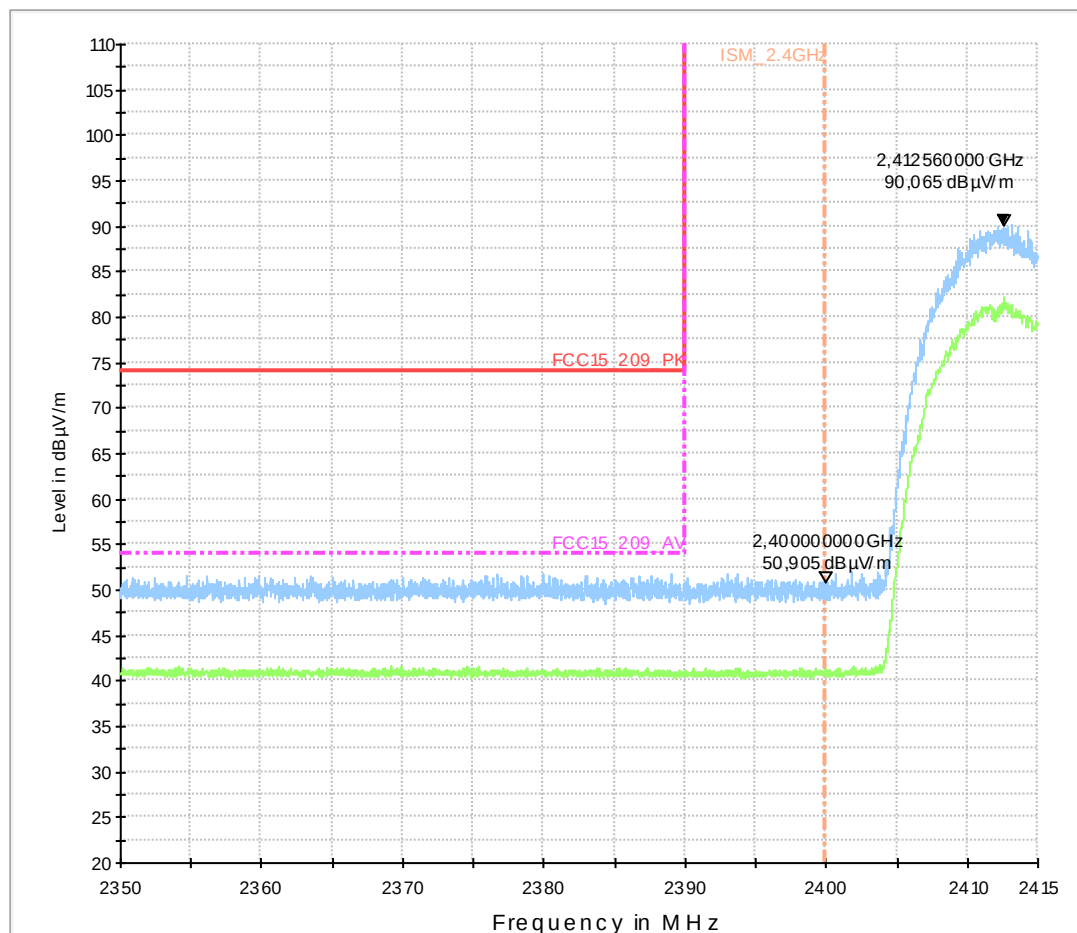
EUT Information

Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DQ9V
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test

Comments: -

00431_BE_Low_SM1_KP1_WLAN_1ms



1.2.2. Left Band-Edge b-mode, channel 11

Diagram No.: 9.08_BE_High_Ch11_11MBit

Common Information

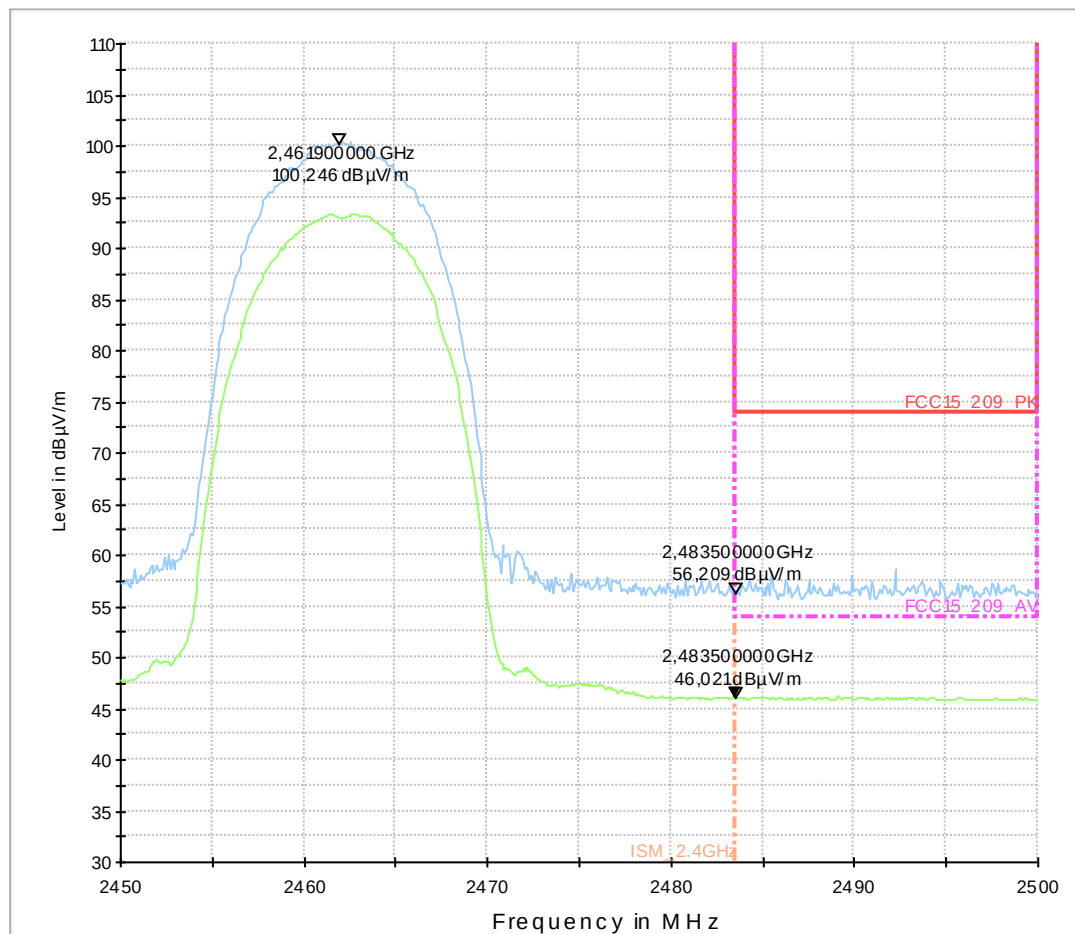
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	ABA
Comment:	Channel no. 11
Op. Mode:	WLAN gMode

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_High_SM1_KP1_WLAN_1ms



1.2.3. Right Band-Edge b-mode, 1Mbps, channel 1

Diagram No.: 9.02_BE_Ch1_1MBit

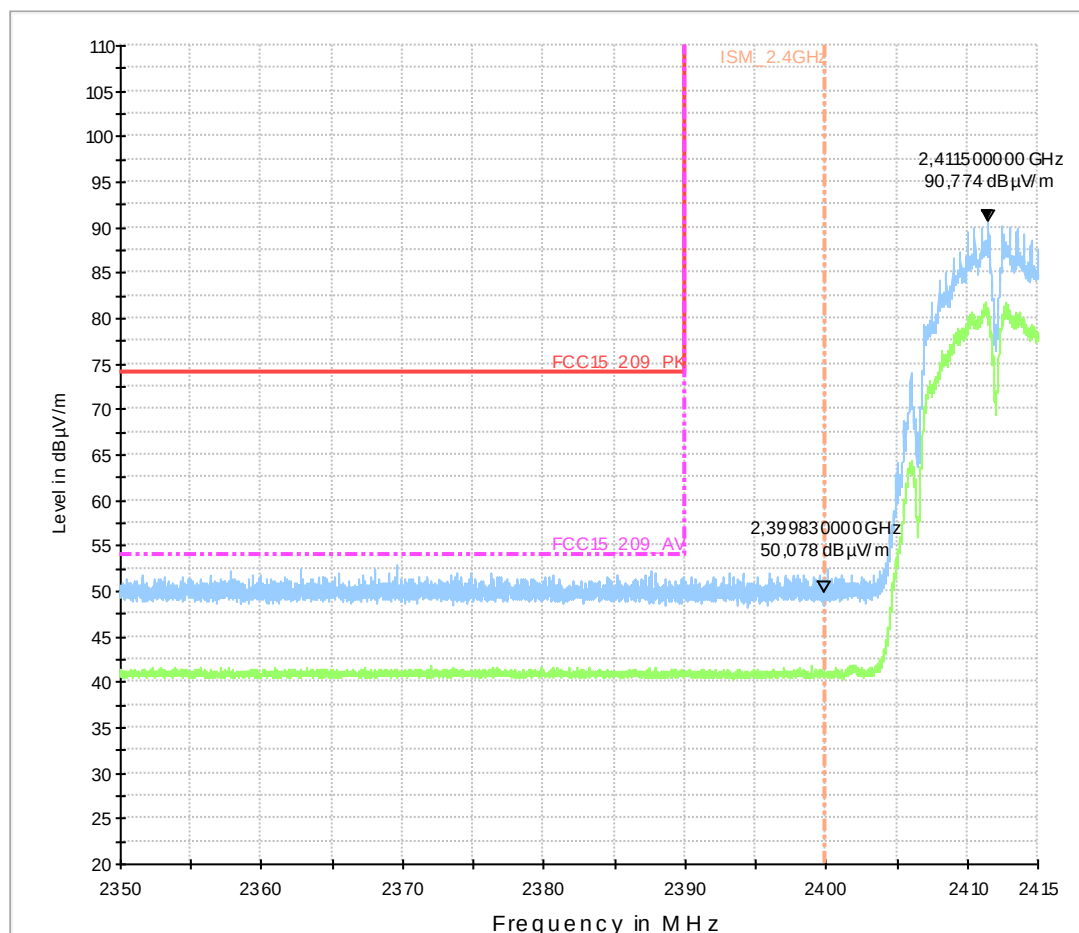
Common Information

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:	gar
Comment:	Channel no. low=1
Op. Mode:	W-LAN 2.4GHz, b-Mode, 1Mbit

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC
EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_Low_SM1_KP1_W LAN_1ms



1.2.4. Left Band-Edge b-mode, 1Mbps, channel 11

Diagram No.: 9.09_BE_High_Ch11_1MBit

Common Information

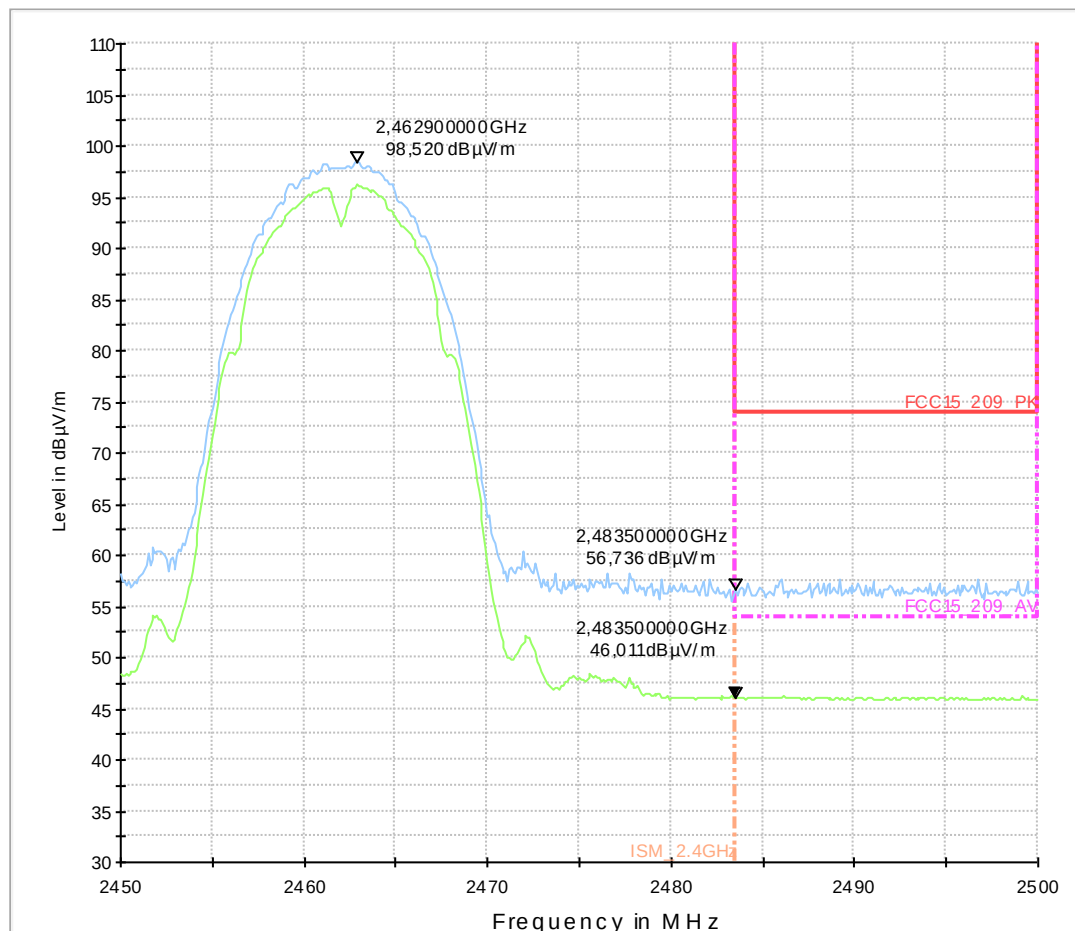
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	gar
Comment:	Channel no. high=11
Op. Mode:	W-LAN 2.4GHz, b-Mode, 1Mbit

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_High_SM1_KP1_W LAN_1ms



1.2.5. Left Band-Edge g-mode, 6Mbps, channel 1

Diagram No.: 9.10_WLAN_BE_Ch1_6MBit

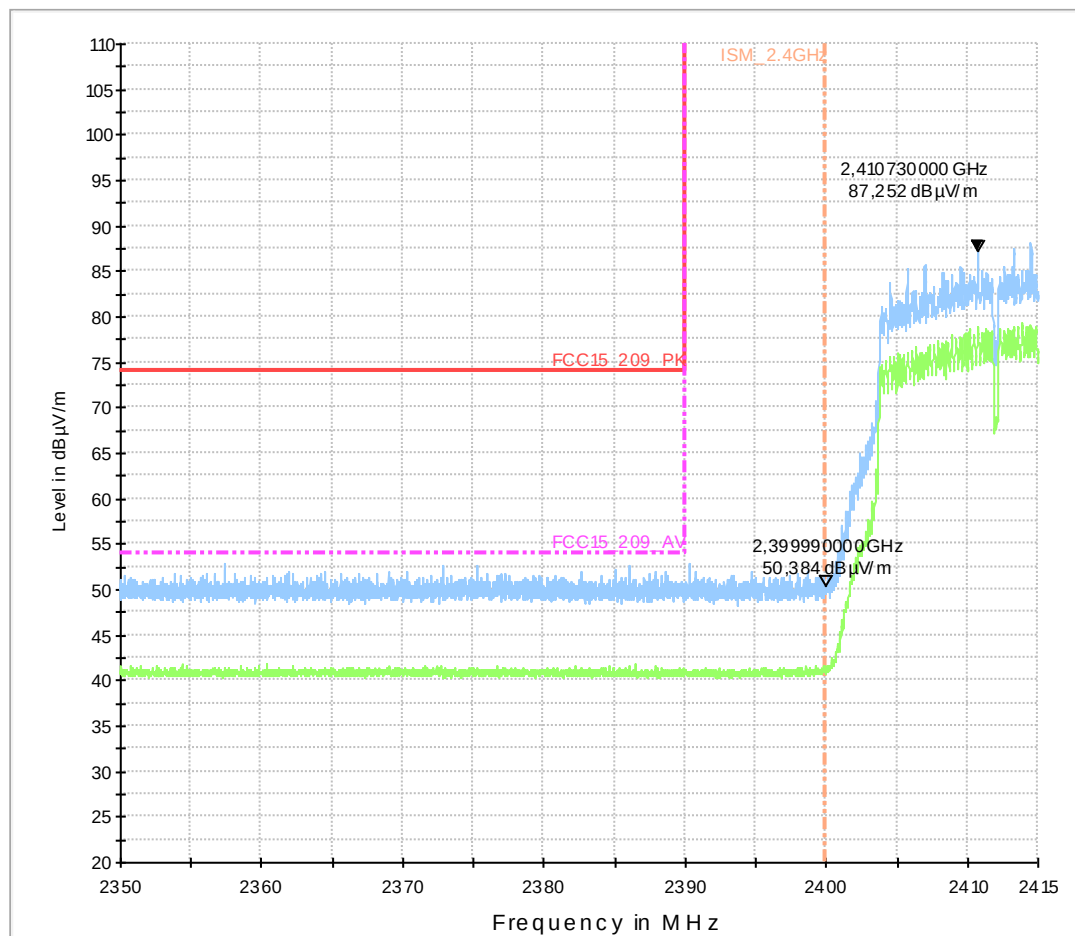
Common Information

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:	ABA
Comment:	Channel no. 1!
Op. Mode:	WLAN gMode

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA-/ LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-
00431_BE_Low_SM1_KP1_WLAN_1ms	



1.2.6. Right Band-Edge g-mode, 6Mbps, channel 11

Diagram No.:9.06_BE_High_Ch11_6MBit

Common Information

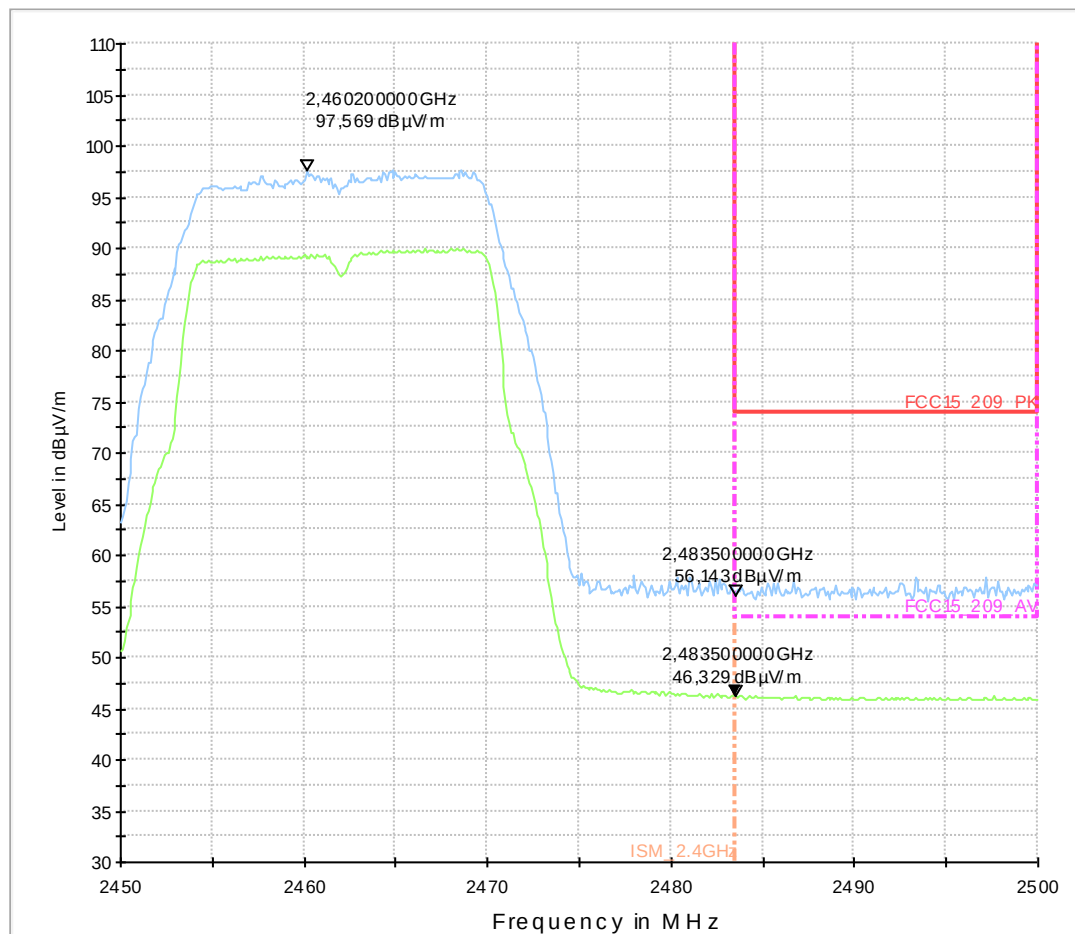
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	ABA
Comment:	Channel no. 11
Op. Mode:	WLAN gMode

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_High_SM1_KP1_WLAN_1ms



1.2.7. Right Band-Edge g-mode, 54Mbps, channel 1

Diagram No.: 9.11

Common Information

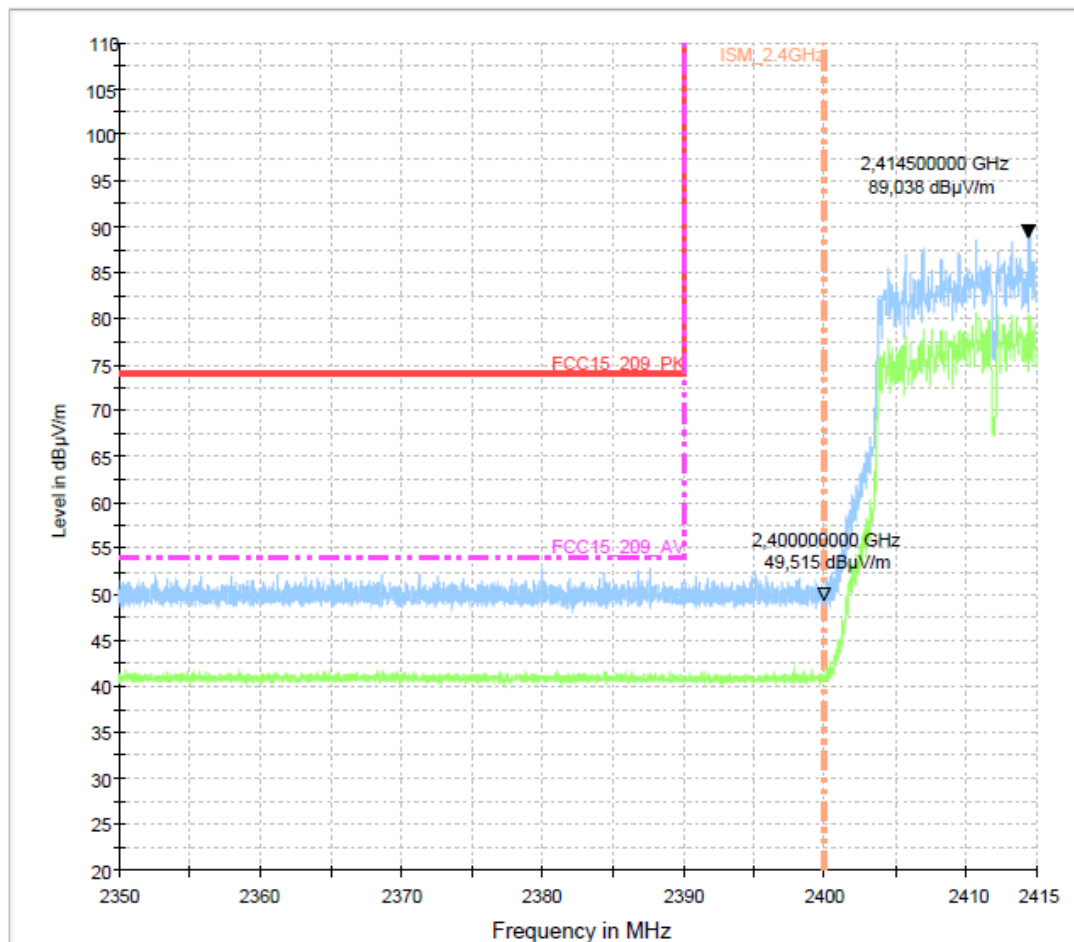
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	dpa
Comment:	Channel no. low=1
Op. Mode:	W-LAN 2.4GHz, g-Mode, 54MB

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_Low_SM1_KP1_WLAN_1ms



1.2.8. Right Band-Edge g-mode, 54Mbps, channel 11

Diagram No.: 9.07_BE_High_Ch11_54MBit

Common Information

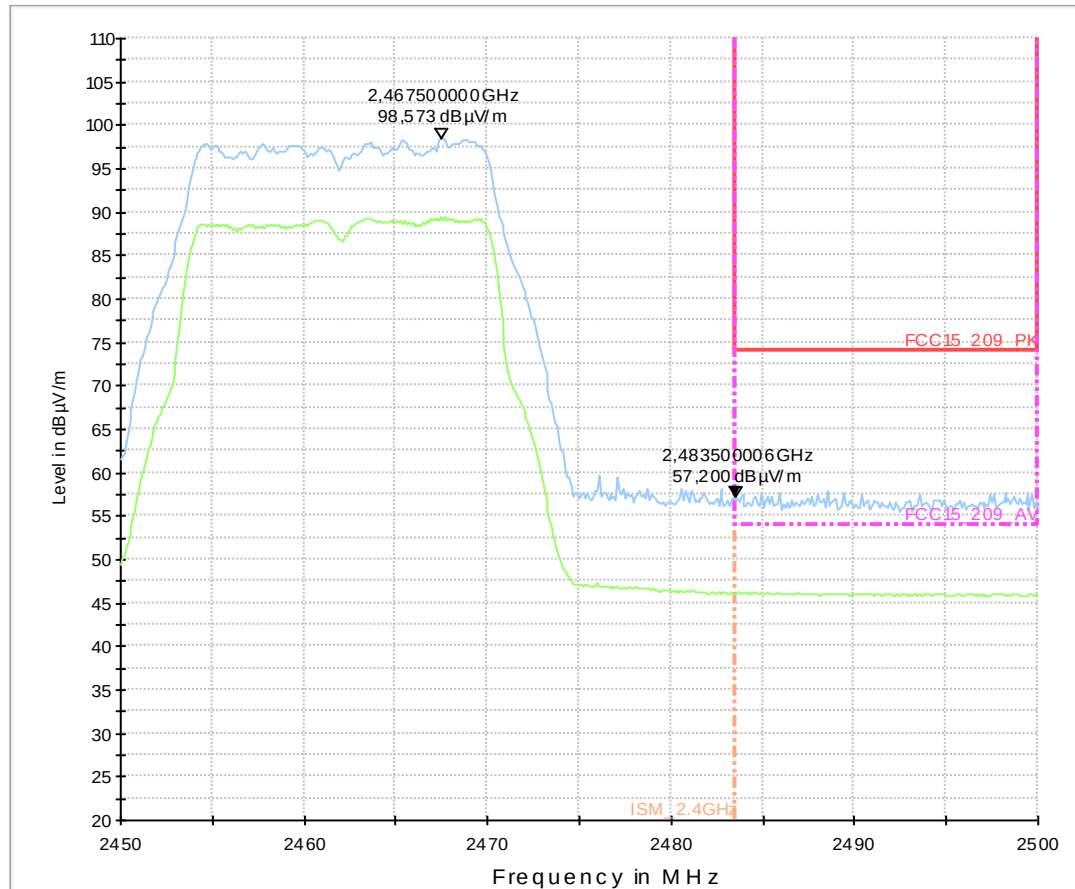
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	gar
Comment:	Channel no. high=11
Op. Mode:	W-LAN 2.4GHz, g-Mode, 54Mbit

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_High_SM1_KP1_W LAN_1ms



1.2.9. Right Band-Edge n-mode, MCS 0, channel 1

Diagram No.: 9.12_WLAN_BE_Ch1_MCS0

Common Information

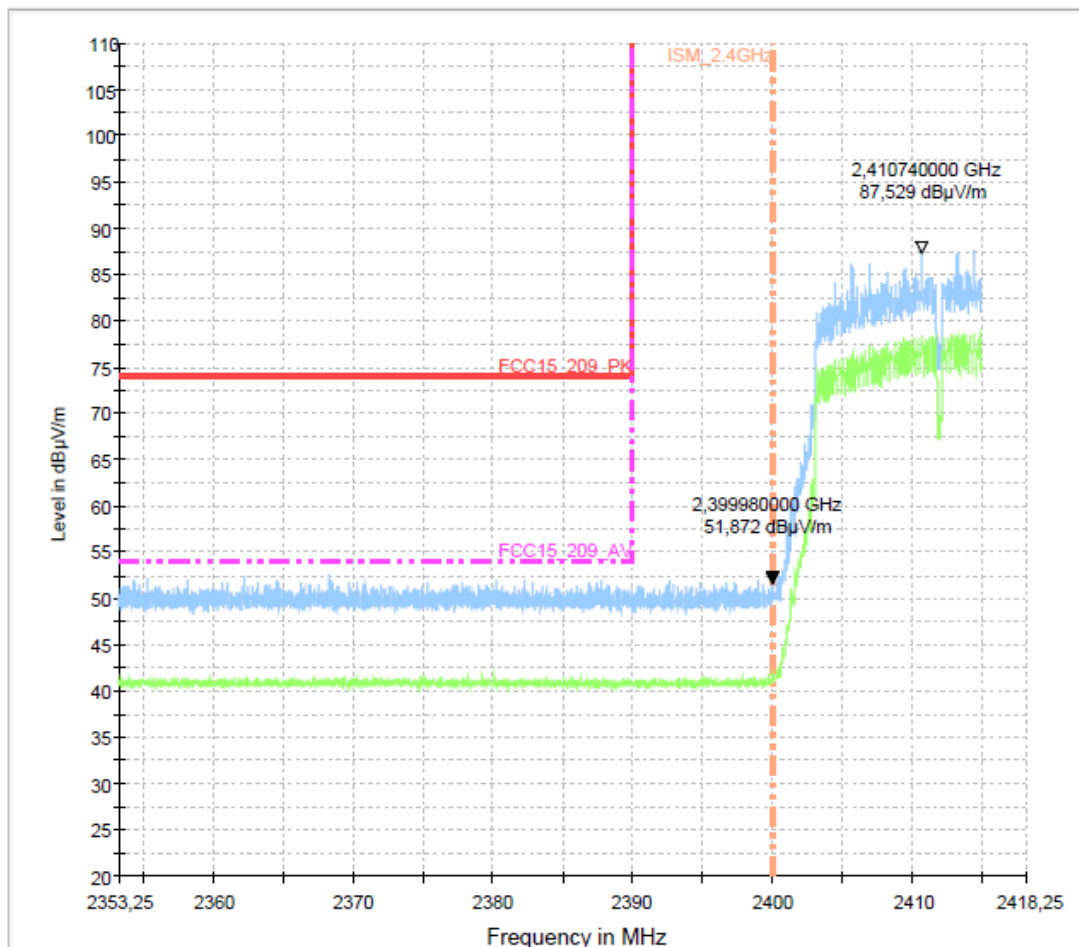
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	ABA
Comment:	Channel no. 11
Op. Mode:	WLAN

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA-/ LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_Low_SM1_KP1_WLAN_1ms



1.2.10. Left Band-Edge n-mode, MCS 0, channel 11

Diagram No.:9.04_BE_High_Ch11_MCS0

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

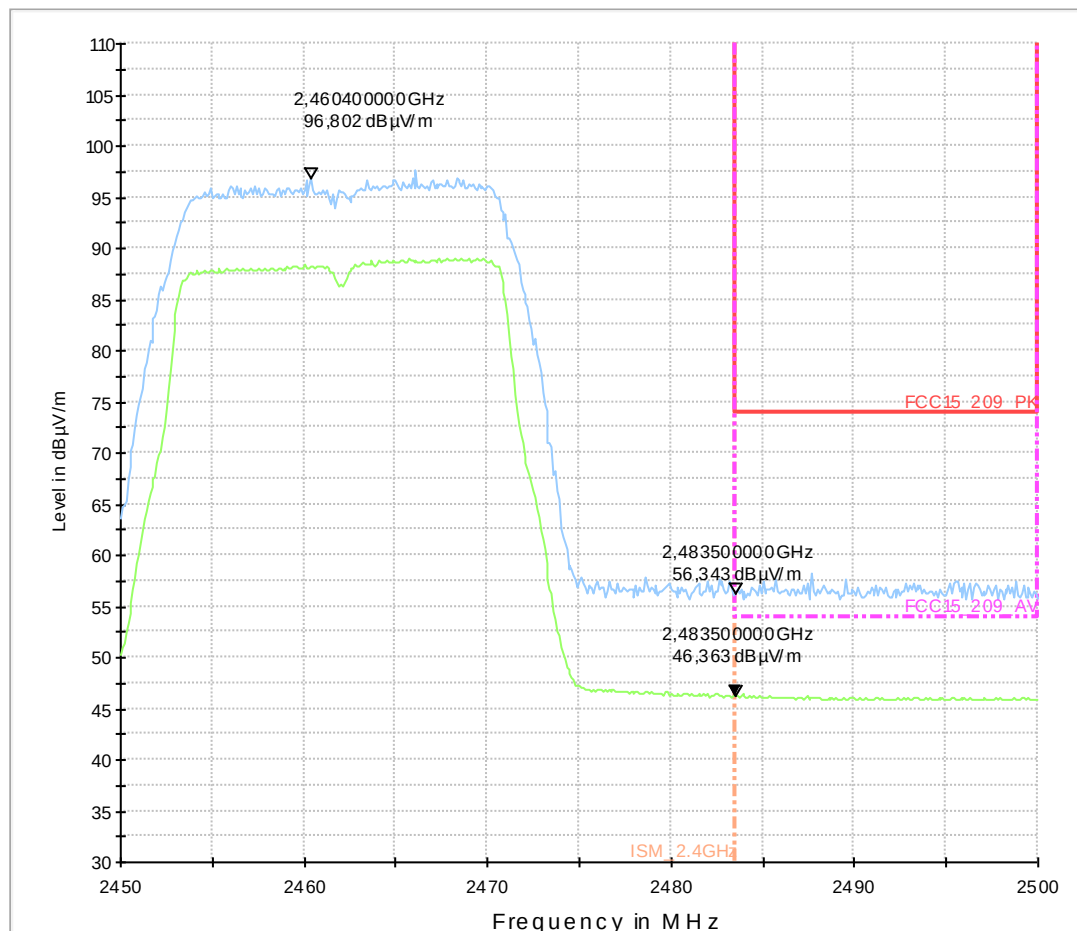
Operator Name: ABA
 Comment: Channel no. 11
 Op. Mode: WLAN nMode

EUT Information

Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA- /LTE Tablet PC

EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DQ9V
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
 Comments: -

00431_BE_High_SM1_KP1_WLAN_1ms



1.2.11. Right Band-Edge n-mode, MCS 3, channel 1

Diagram No.: 9.13_BE_Ch1_MCS3

Common Information

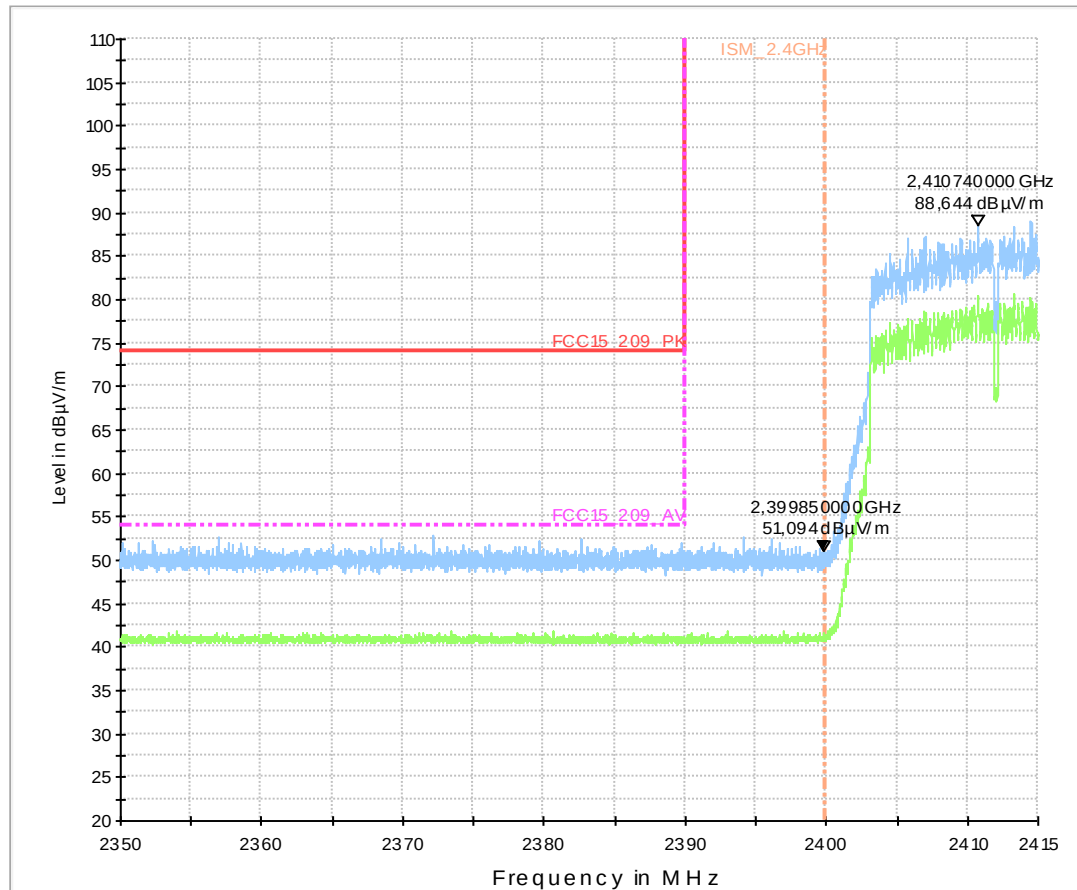
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	ABA
Comment:	Channel no. 1
Op. Mode:	W-LAN 2.4GHz, n-Mode, MCS3

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_Low_SM1_KP1_W LAN_1ms



1.2.12. Left Band-Edge n-mode, MCS 3, channel 11

Diagram No.:9.03_WLAN_BE_High_Ch11_MCS3

Common Information

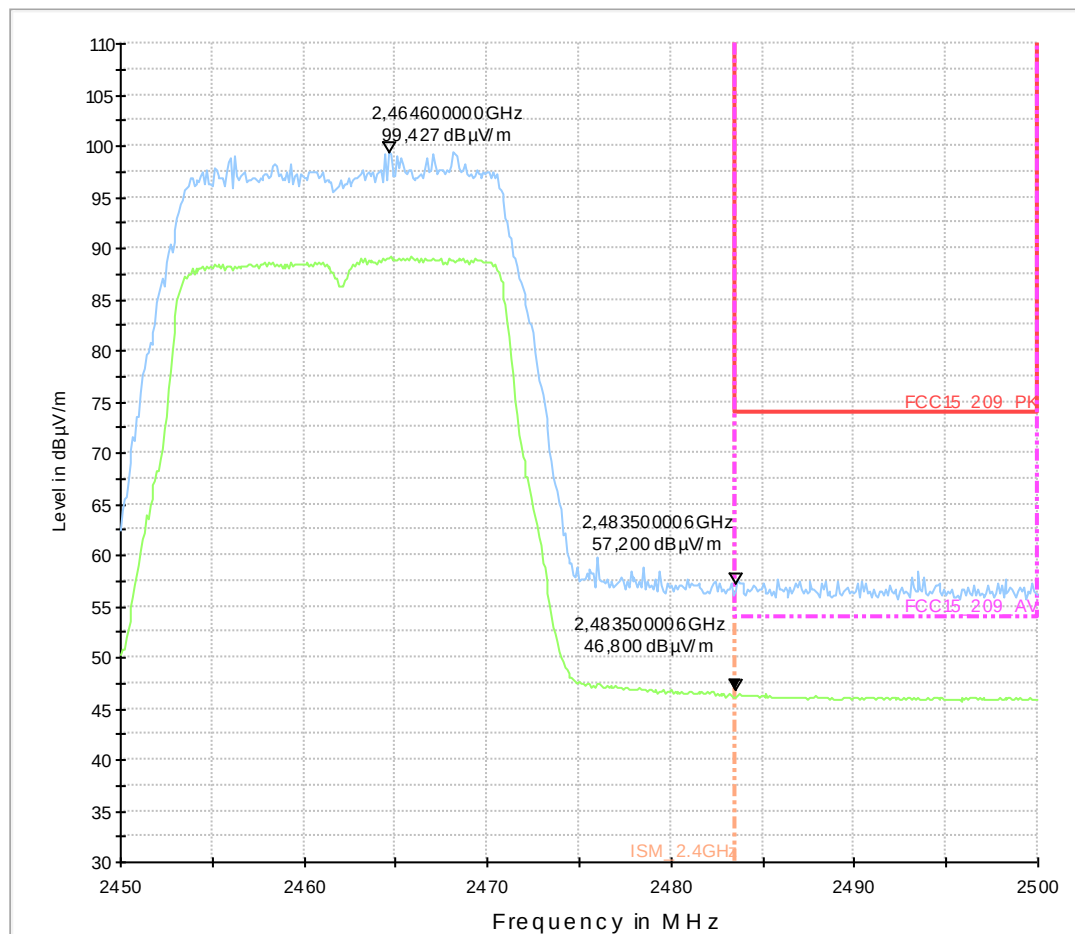
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	gar
Comment:	Channel no. high=11
Op. Mode:	W-LAN 2.4GHz, n-Mode, MCS3

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_High_SM1_KP1_WLAN_1ms



1.2.13. Right Band-Edge n-mode, MCS 7, channel 1

Diagram No.: 9.14_BE_Ch1_MCS7

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

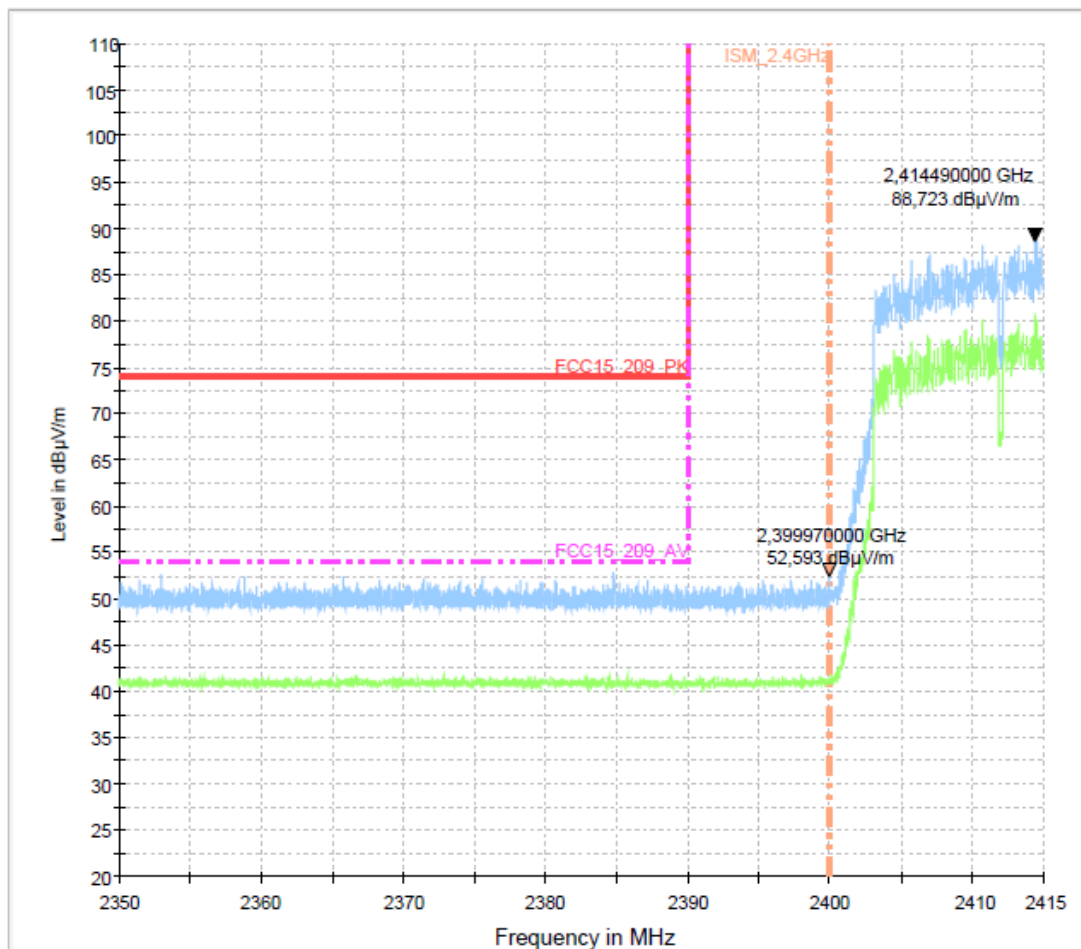
Operator Name: dpa/gar
 Comment: Channel no. low=1
 Op. Mode: W-LAN 2.4GHz, n-Mode, MCS7

EUT Information

Manufacturer: Sony
 FCC ID: PY7TM-0042
 Type: GSM-/ WCDMA-/ LTE Tablet PC

EUT: RSE #01
 HW version: AP1
 SW version: 17.1.D.0.108
 SVN: -
 Config: -
 Serial number: CB5126DQ9V
 Connected Interfaces: Power Supply (EP850) ; USB-cable (EC700)
 Power Supply: Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
 Comments: -

00431_BE_Low_SM1_KP1_WLAN_1ms



1.2.14. Left Band-Edge n-mode, MCS 7, channel 11

Diagram No.: 9.05_BE_High_Ch11_MCS7

Common Information

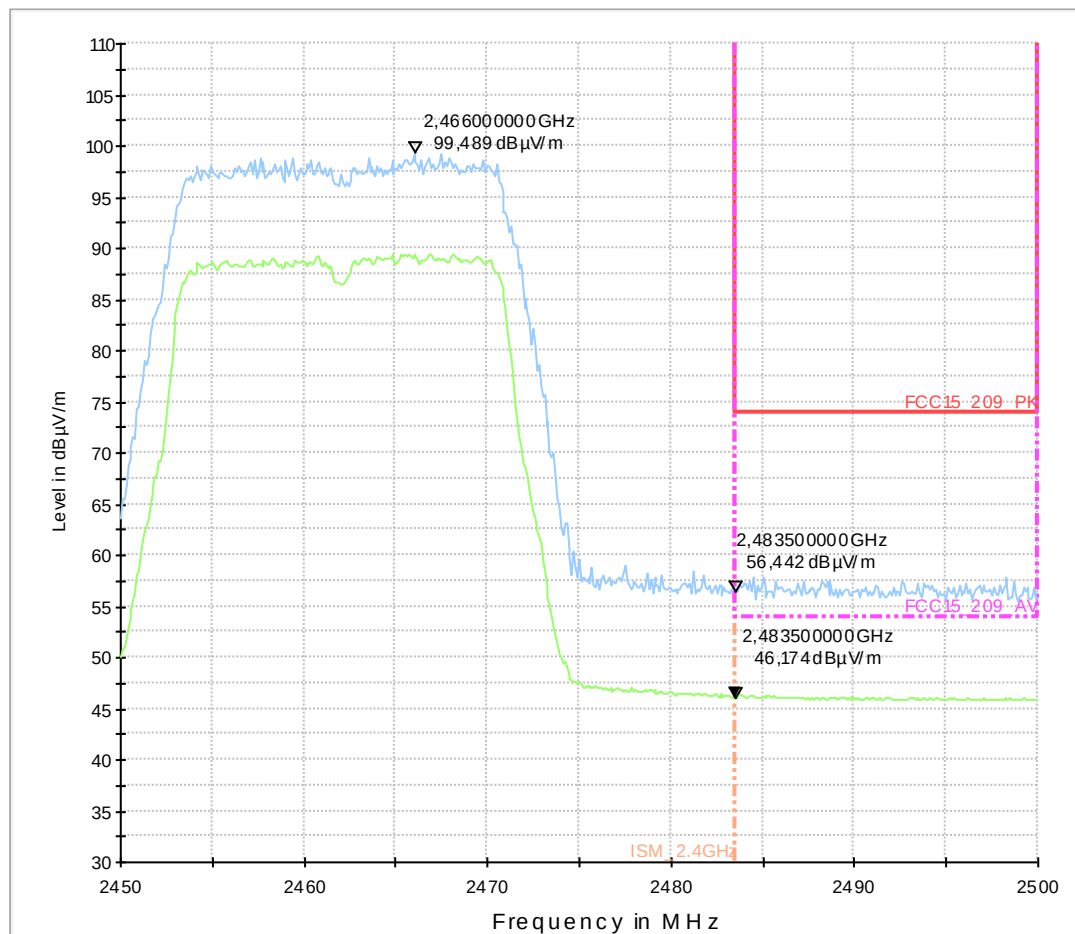
Test Description:	Radiated field strength emission accord. §15.247 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	gar
Comment:	Channel no. high=11
Op. Mode:	W-LAN 2.4GHz, n-Mode, MCS7

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

00431_BE_High_SM1_KP1_W LAN_1ms



2. Receiver spurious emissions

2.1. Frequency range $f < 1\text{GHz}$

Diagram No. 3.13_WLAN_Ch6_RX

Date: 20.03.2014 Page 1 of 1
 Test description: Electric Fieldstrength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance
 Version of Testsoftware: 8.51.0
 Distance correction: not used
 Technical Data: Please see page 2 for detailed data of measurement setup
 Used filter: not used
 Test specification: FCC15.109, class B; RSS-Gen.: Issue 3

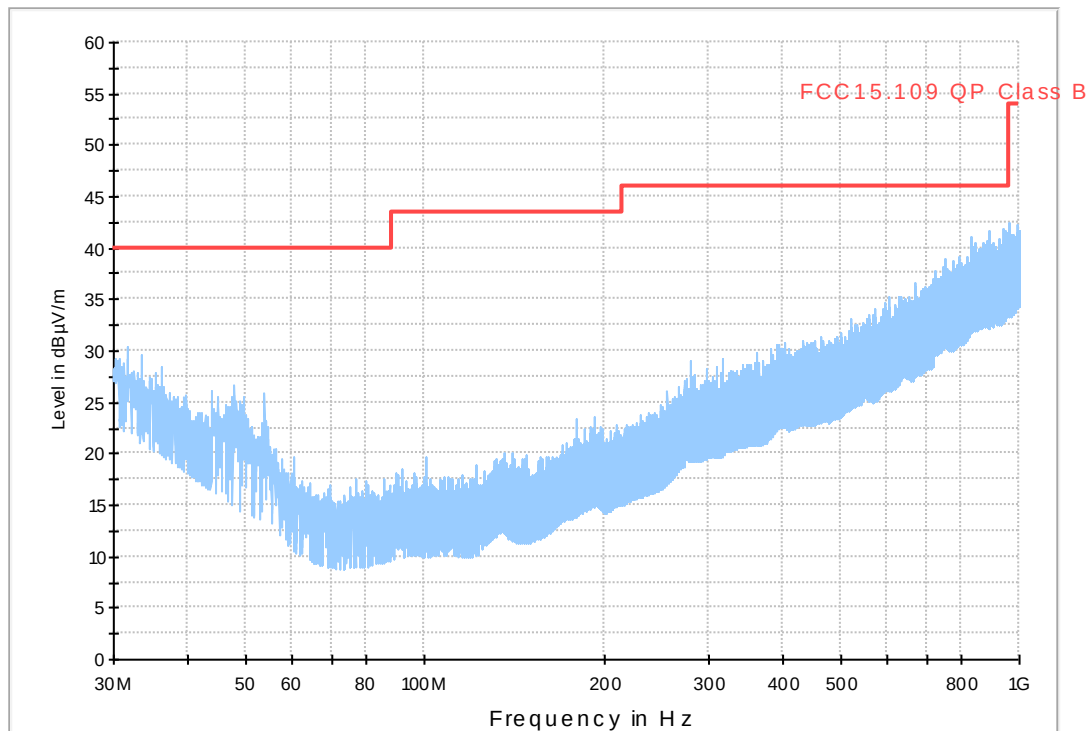
Operator: dpa
 Operating conditions: WLAN 2,4GHz, Ch6, RX
 Measured sides of EUT: front, right, rear, left
 Power during tests: 120V/60Hz, full loaded batteries
 Comment 1:

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

05_FCC15.109_hor+vert_kipp



2.2. Frequency range $f > 1\text{GHz}$

4.04_WLAN_Ch6_RX

Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.109
Section:	15.109
Operating Mode:	WLAN Ch6 Rx Mode
Equipment Class:	Class B
Environmental Conditions:	Humidity: 34%rH; Temperature: 23°C
Operator:	KTa

EUT Information

Manufacturer:	Sony
FCC ID:	PY7TM-0042
Type:	GSM-/ WCDMA- /LTE Tablet PC

EUT:	RSE #01
HW version:	AP1
SW version:	17.1.D.0.108
SVN:	-
Config:	-
Serial number:	CB5126DQ9V
Connected Interfaces:	Power Supply (EP850) ; USB-cable (EC700)
Power Supply:	Battery fully charged before test, Device is powered via Power Supply & USB cable connected to 120VAC/60Hz during test
Comments:	-

030442_FCC_Part15.109_Unint_Rad_Class_B_1G-20G_ESU40

