

CERTIFICATION OF COMPLIANCE

FCC ID.

VCVDPF-801W

APPLICANT

ITIAN Corporation

Equipment Class	:	Digital Transmission System (DTS)
Manufacturing Description	:	Digital Photo frame
Manufacturer	:	ITIAN Corporation
Model name	:	DPF-801W
Test Device Serial No.:	:	Identical prototype
Rule Part(s)	:	FCC Part 15.247 Subpart C; ANSI C-63.4-2003
Frequency Range	:	2412MHz ~ 2462MHz
Max. Output Power	:	Max 13.10dBm - Conducted (802.11b) Max 14.41dBm - Conducted (802.11g)
Data of issue	:	Sep 08, 2009

This test report is issued under the authority of:

The test was supervised by:



Dong -Min JUNG, Technical Manager



Kyung-Taek LEE, Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. This report must not be used by the applicant to claim product endorsement by any agency.



NVLAP LAB Code.: 200723-0

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1. General information's

1-1 Test Performed

Company name : LTA Co., Ltd.
 Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 449-822
 Web site : <http://www.ltalab.com>
 E-mail : chahn@ltalab.com
 Telephone : +82-31-323-6008
 Facsimile : +82-31-323-6010

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competents of calibration and testing laboratory”.

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2009-09-30	ECT accredited Lab.
RRL	KOREA	KR0049	2011-06-20	EMC accredited Lab.
FCC	U.S.A	610755	2011-04-22	FCC filing
VCCI	JAPAN	R2133, C2307	2011-06-21	VCCI registration
IC	CANADA	IC5799	2010-05-03	IC filing

2-1 Applicant & Manufacturer

-2 Equipment Under Test (EUT)

-3 Tested frequency

2-4 Ancillary Equipment

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3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.247(a)	6 dB Bandwidth	> 500kHz	Conducted	C
15.247(b)	Transmitter Peak Output Power	< 1Watt		C
15.247(d)	Transmitter Power Spectral Density	< 8dBm @ 3kHz		C
15.247(d)	Band Edge & Spurious	> 20 dBc		C
15.209	Field Strength of Harmonics	Emission	Radiated	C
15.207	AC Conducted Emissions	Emissions	Conducted	C
15.203	Antenna requirement	-	-	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

→ Antenna Requirement

The ITIAN Corporation. FCC ID: VCVDPF-801W unit complies with the requirement of §15.203. The antenna is connected to inside of EUT. And type is PCB antenna.

The sample was tested according to the following specification:
FCC Parts 15.247; ANSI C-63.4-2003

3.2 Technical Characteristics Test (802.11b/g)

3.2.1 6 dB Bandwidth

Procedure:

The bandwidth at 6dB below the highest in-band spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

Span = 30 MHz

VBW = 300 kHz (VBW \geq RBW)

Sweep = auto

Trace = max hold

Detector function = peak

Measurement Data:

Mode	Frequency (MHz)	Channel No.	Test Results	
			Measured Bandwidth (MHz)	Result
802.11b	2412	1	11.03	Complies
	2437	6	11.03	Complies
	2462	11	10.98	Complies
802.11g	2412	1	16.50	Complies
	2437	6	16.50	Complies
	2462	11	16.50	Complies

- See next pages for actual measured spectrum plots.

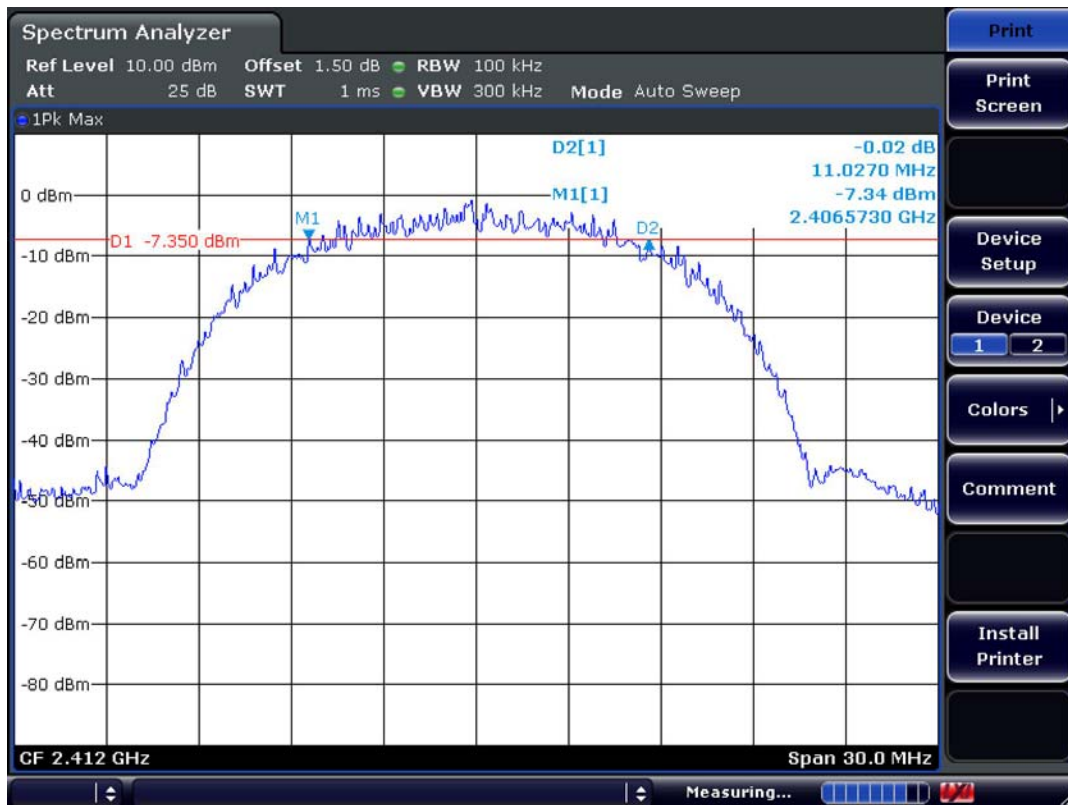
Minimum Standard:

6 dB Bandwidth > 500kHz

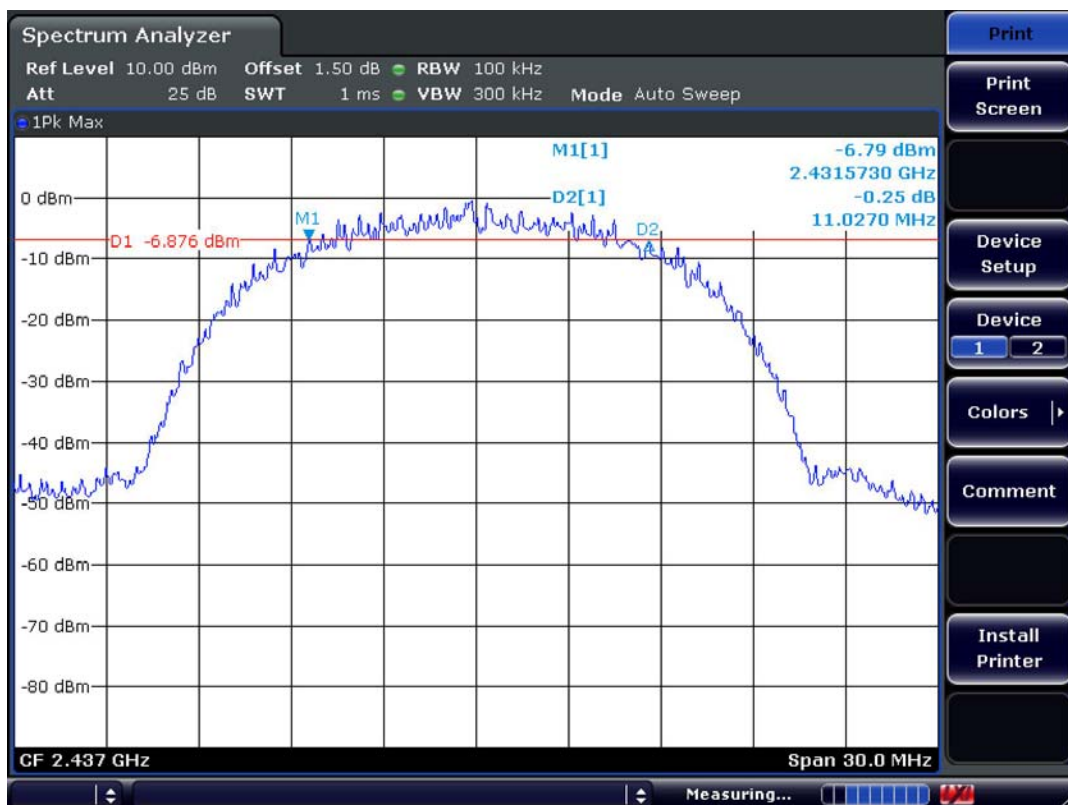
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

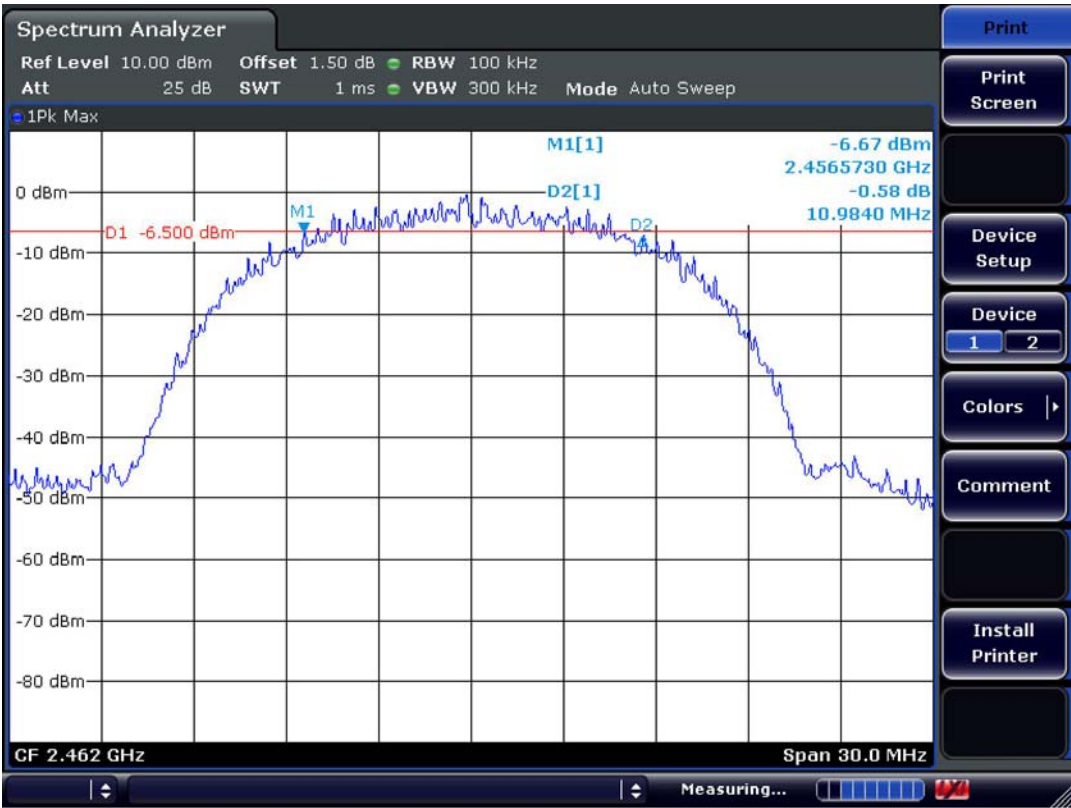
802.11b CH 1



CH 6

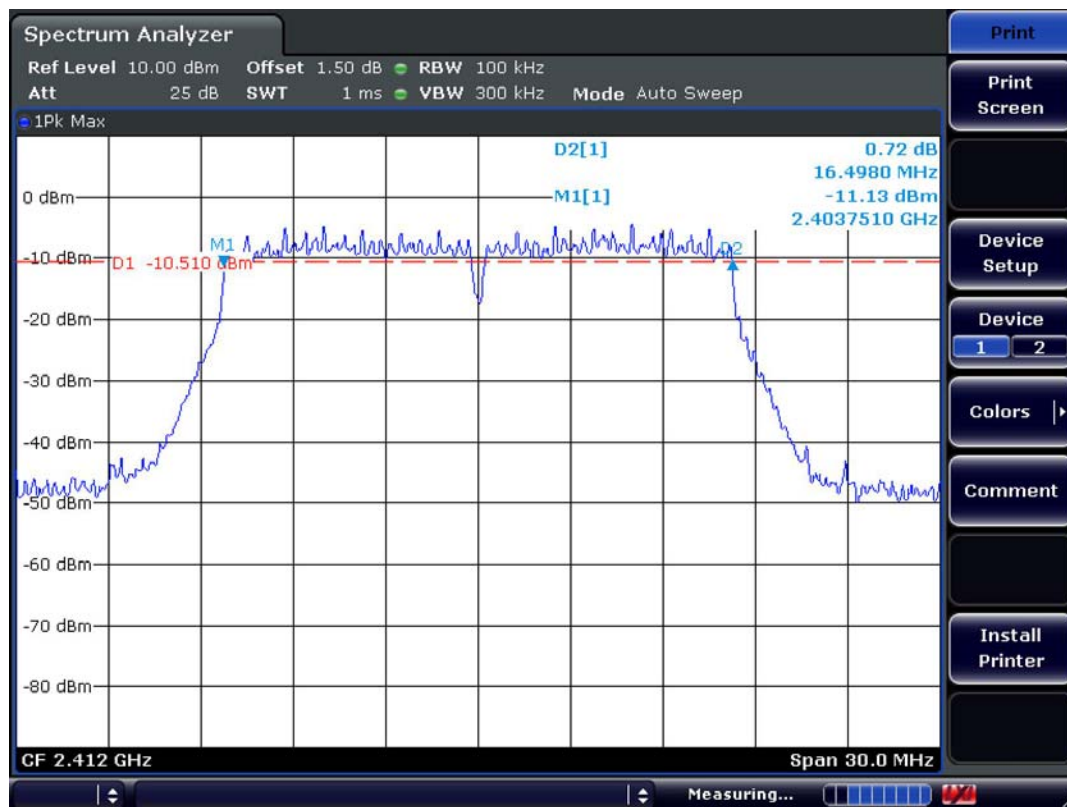


CH 11

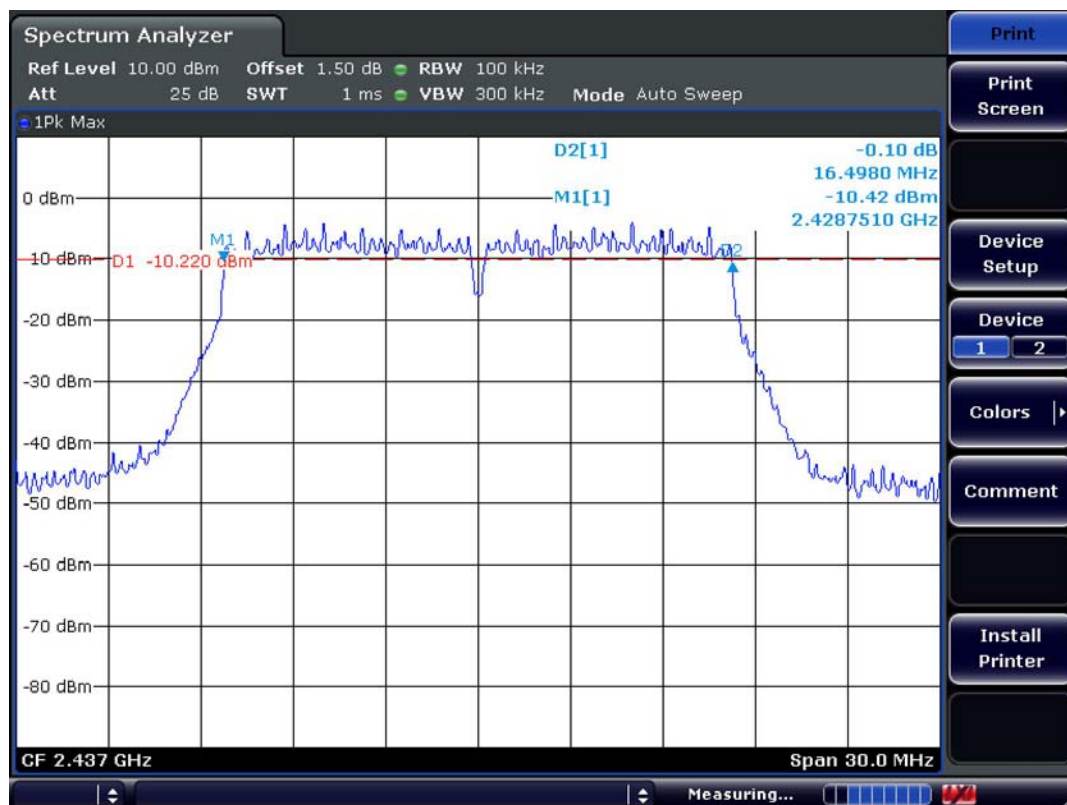


802.11g

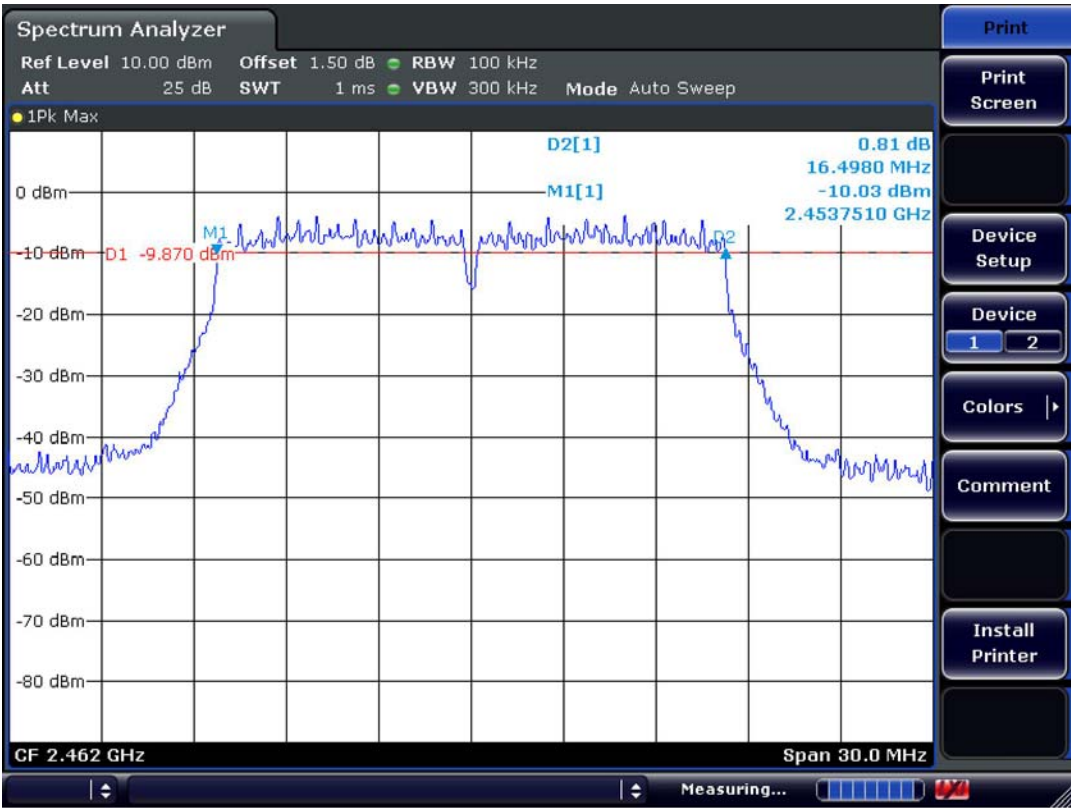
CH 1



CH 6



CH 11



3.2.2 Peak Output Power Measurement

Procedure:

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1MHz

Span = auto

VBW = 1MHz (VBW \geq RBW)

Sweep = auto

Detector function = peak

Measurement Data:

Mode	Frequency (MHz)	Channel No.	Test Results	
			Measured Data (dBm)	Result
802.11b	2412	1	12.98	Complies
	2437	6	13.09	Complies
	2462	11	13.10	Complies
802.11g	2412	1	14.34	Complies
	2437	6	14.41	Complies
	2462	11	14.40	Complies

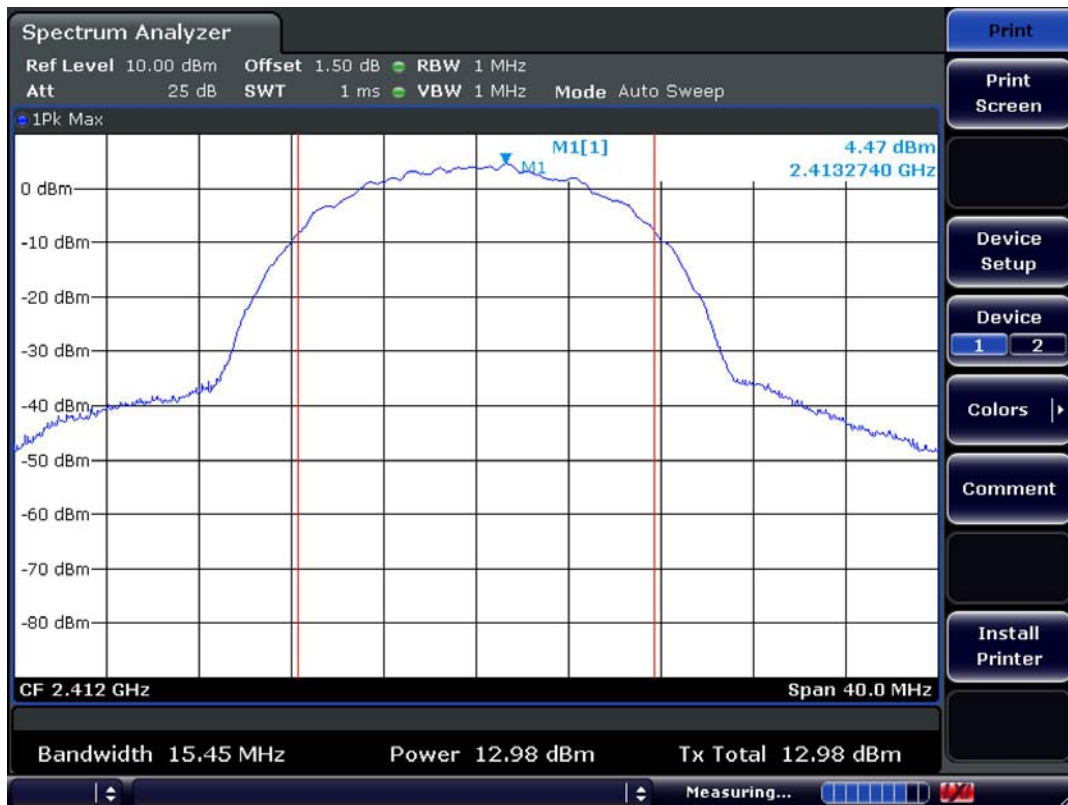
-

- See next pages for actual measured spectrum plots.

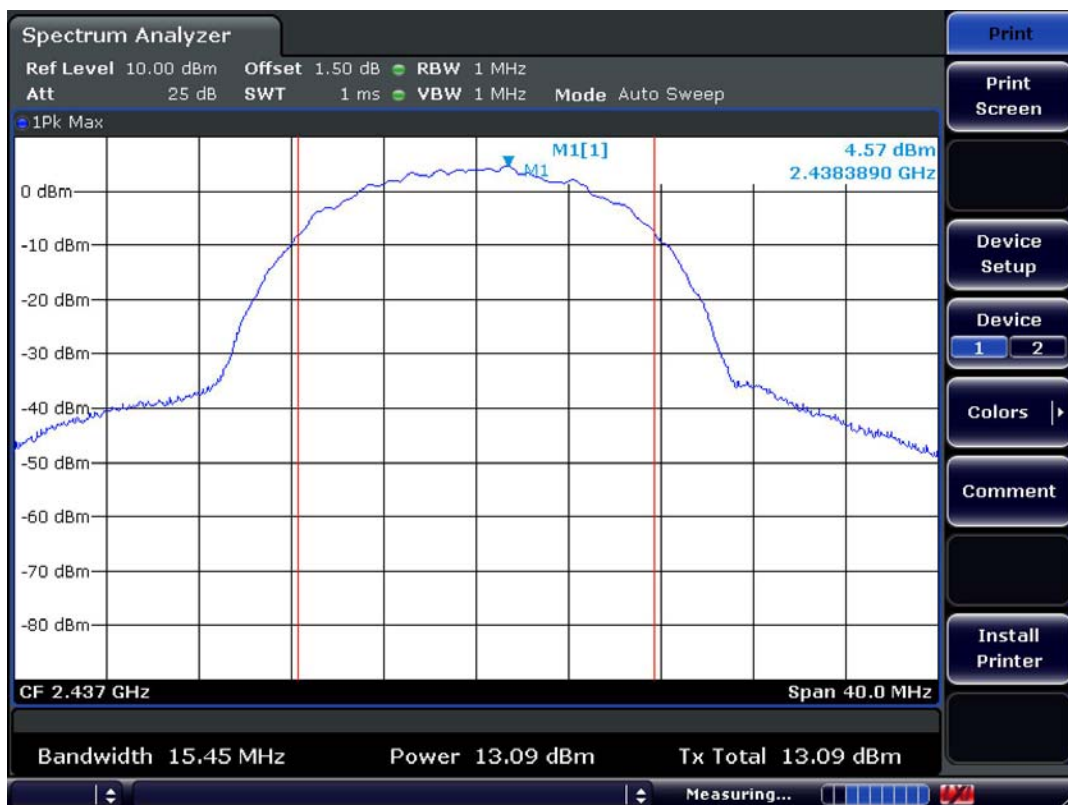
Minimum Standard:

Peak output power	< 1W
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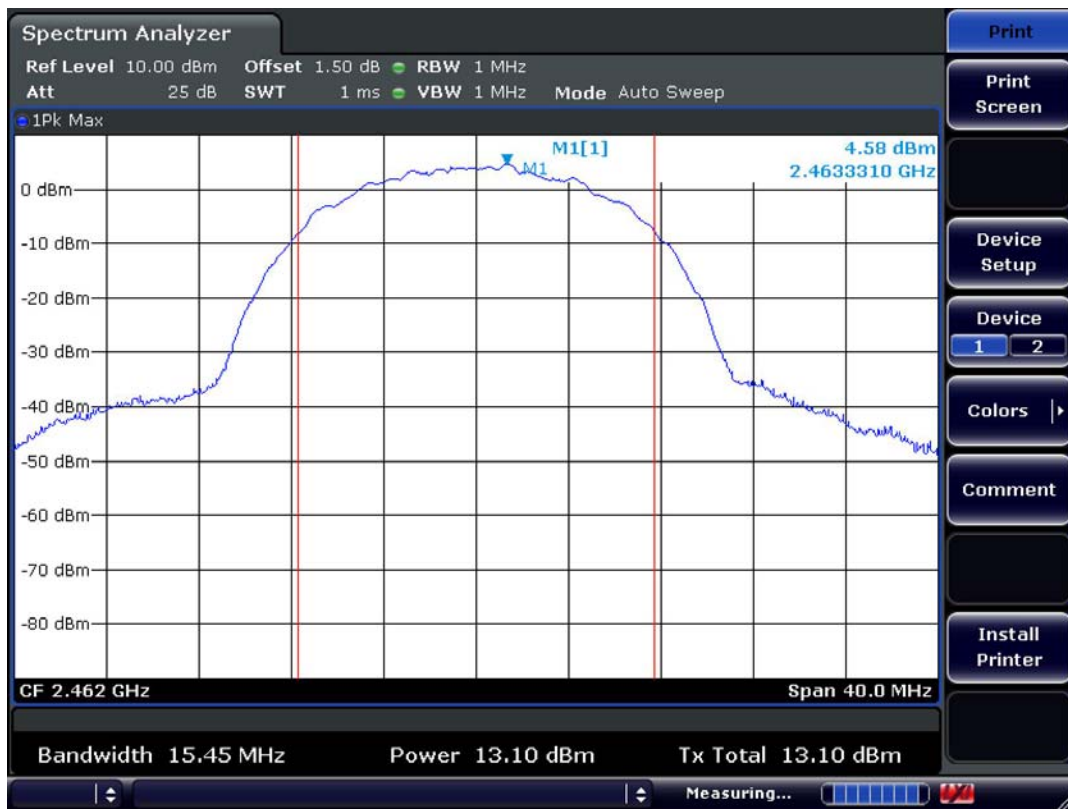
802.11b CH 1



CH 6

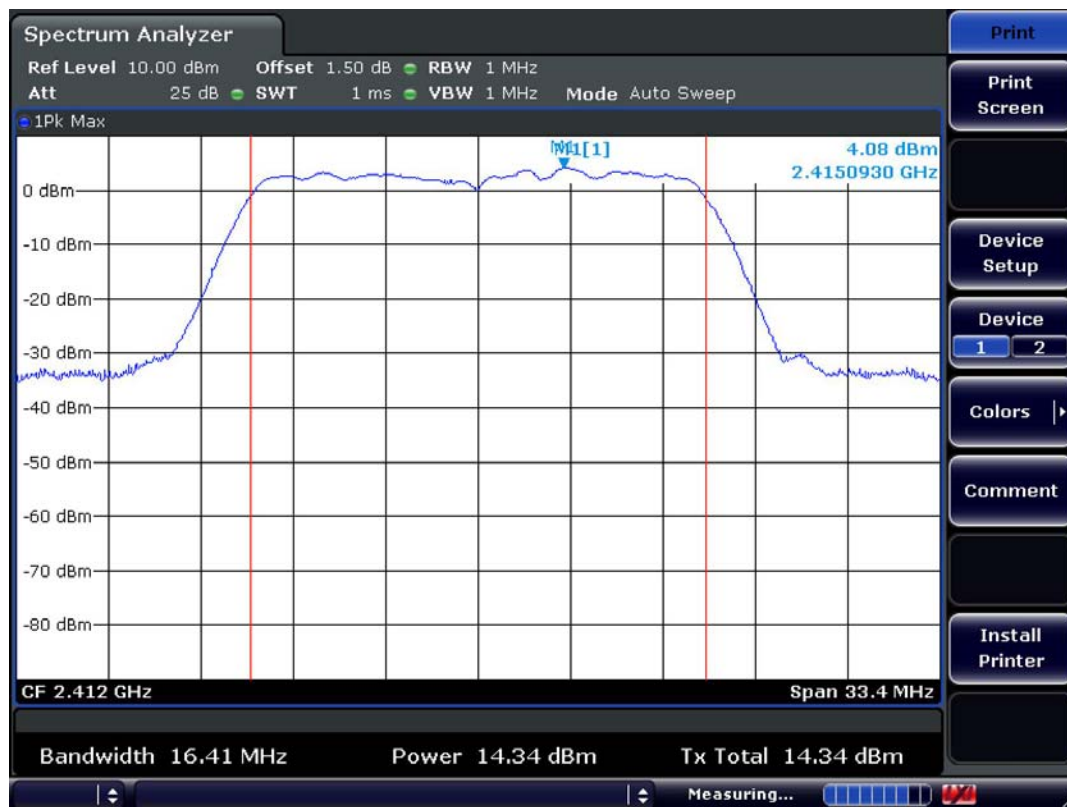


CH 11

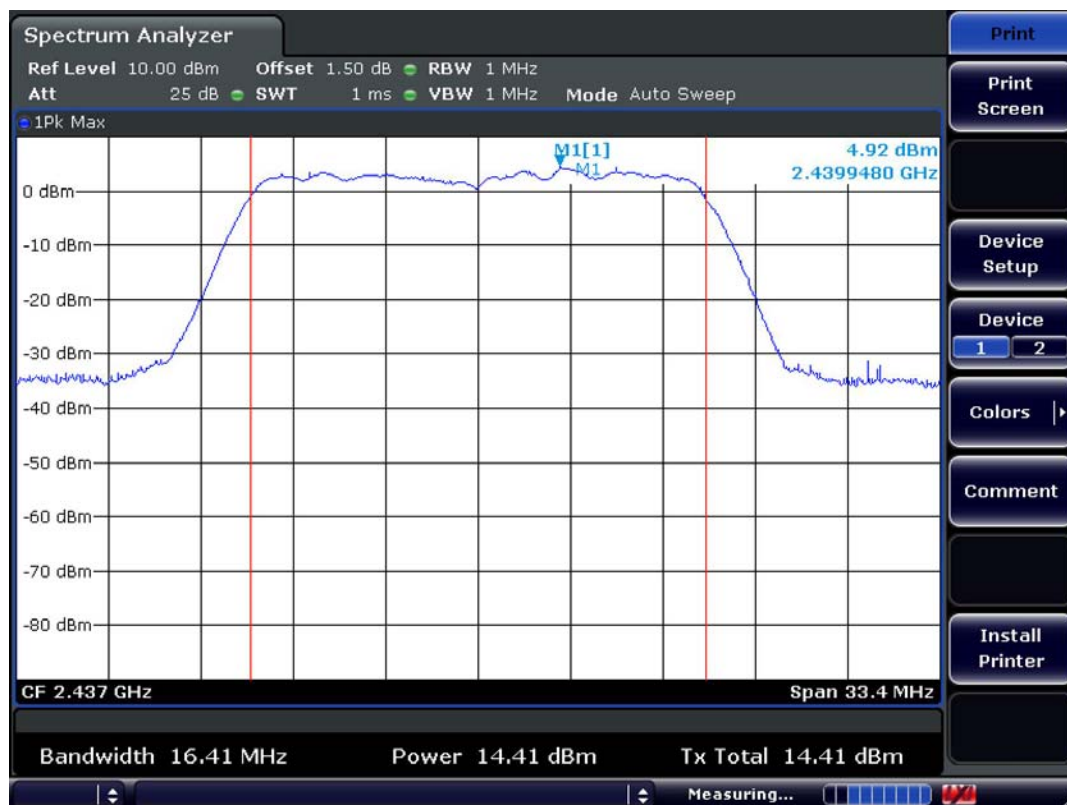


802.11g

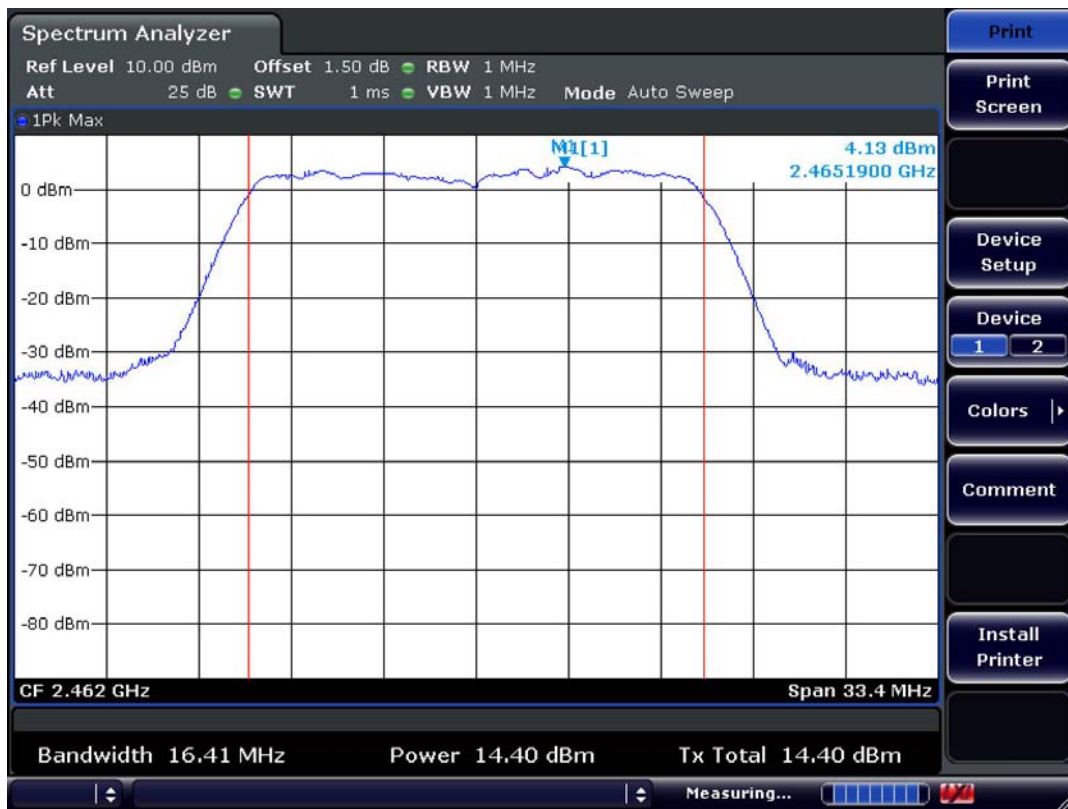
CH 1



CH 6



CH 11



3.2.3 Power Spectral Density

Procedure:

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The spectrum analyzer is set to:

RBW = 3 kHz

Span = 300 kHz

VBW = 10 kHz

Sweep = 1000 sec

Detector function = peak

Trace = max hold

Measurement Data:

Mode	Frequency (MHz)	Ch.	Test Results	
			dBm	Result
802.11b	2412	1	-16.94	Complies
	2437	6	-16.52	Complies
	2462	11	-16.47	Complies
802.11g	2412	1	-19.94	Complies
	2437	6	-19.50	Complies
	2462	11	-18.71	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

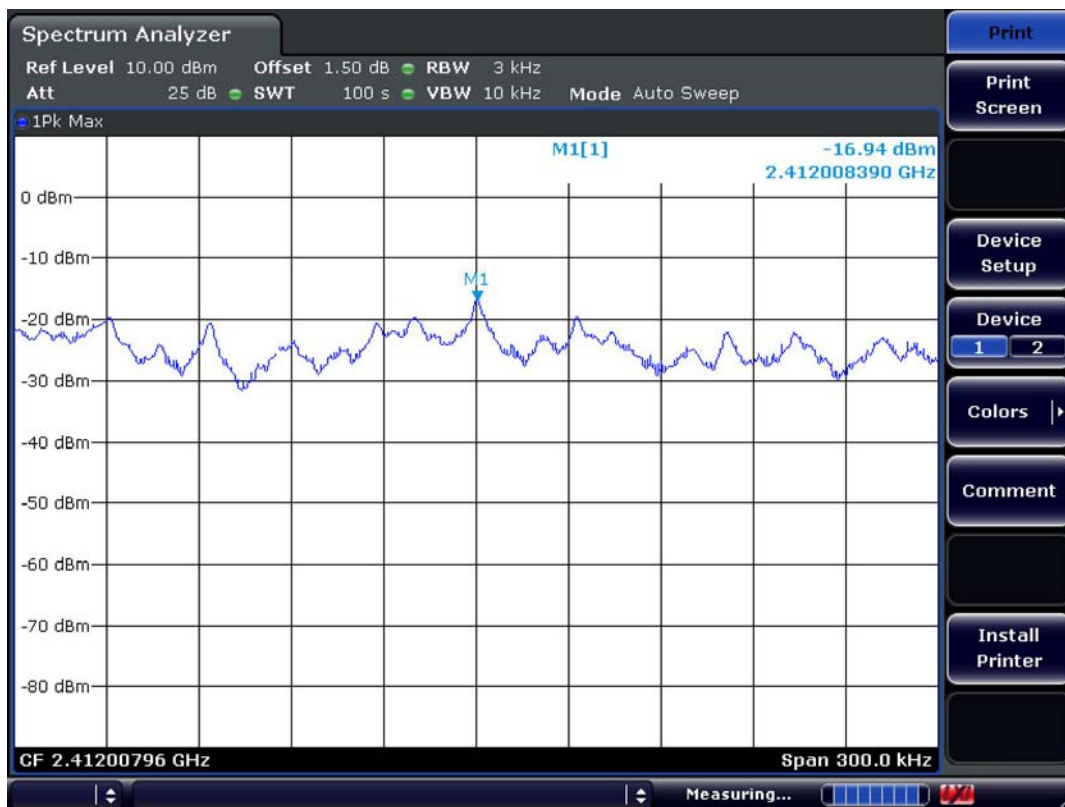
Power Spectral Density	< 8dBm @ 3kHz BW
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Measurement Setup

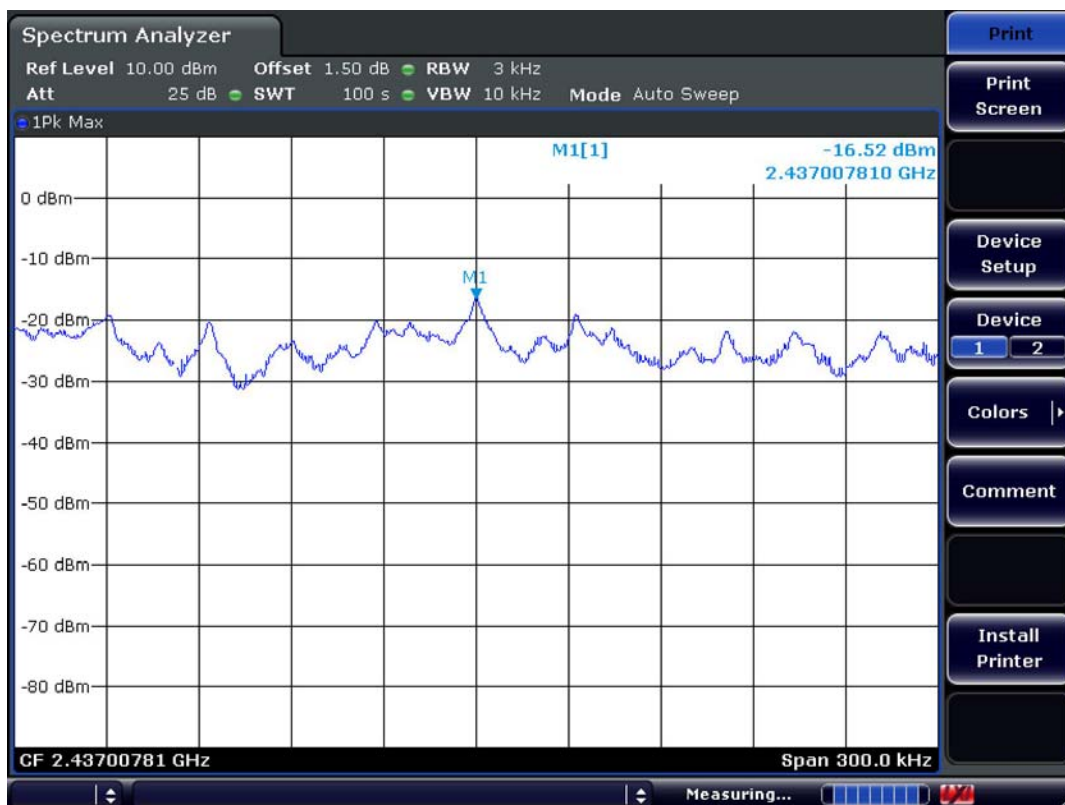
Same as the Chapter 3.2.1 (Figure 1)

802.11b Power Density Measurement

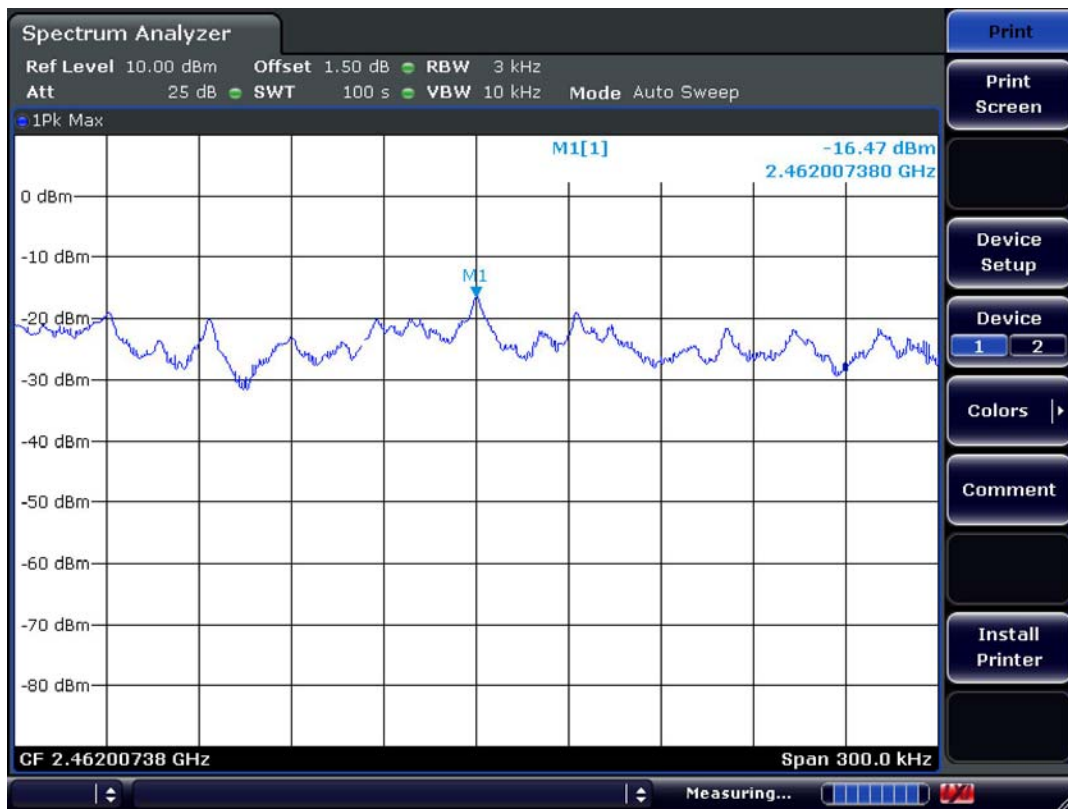
CH 1



CH 6

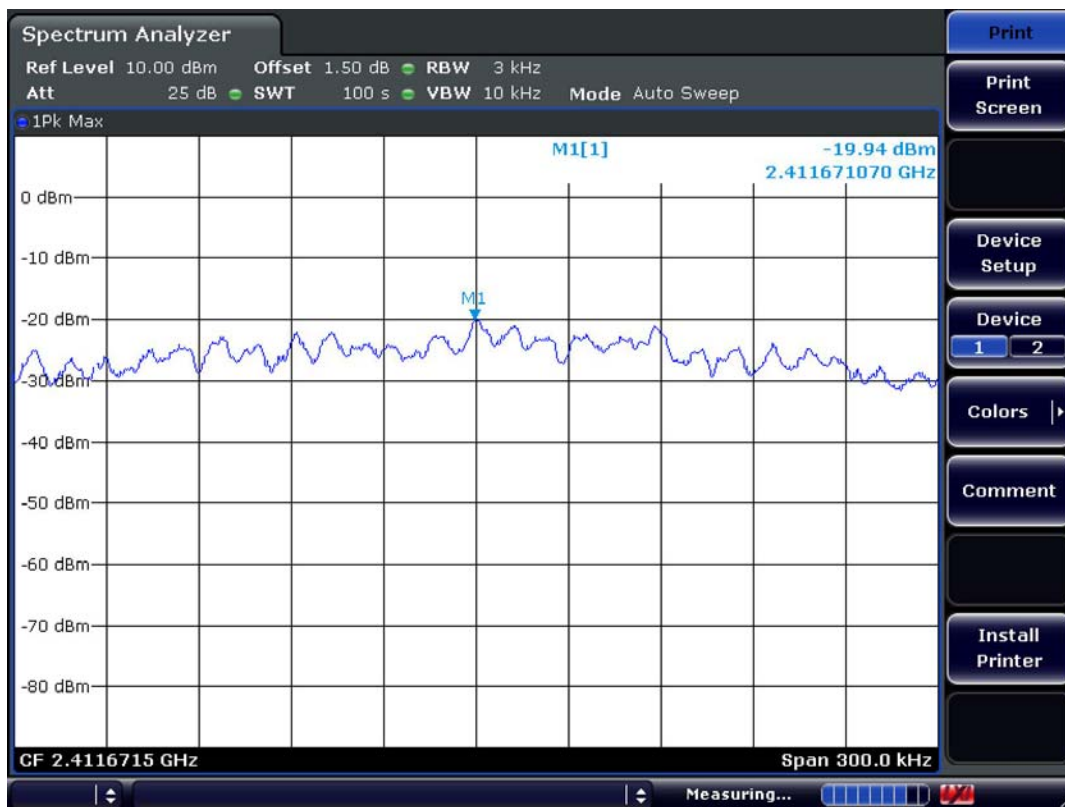


CH 11

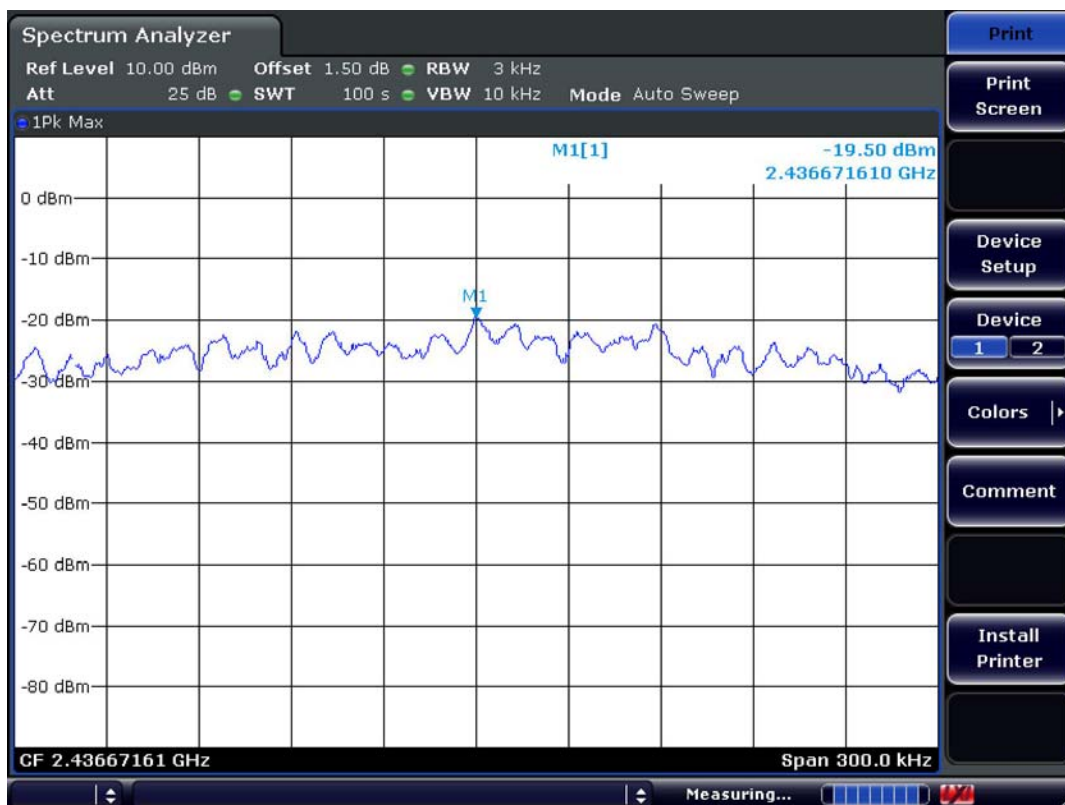


802.11g Power Density Measurement

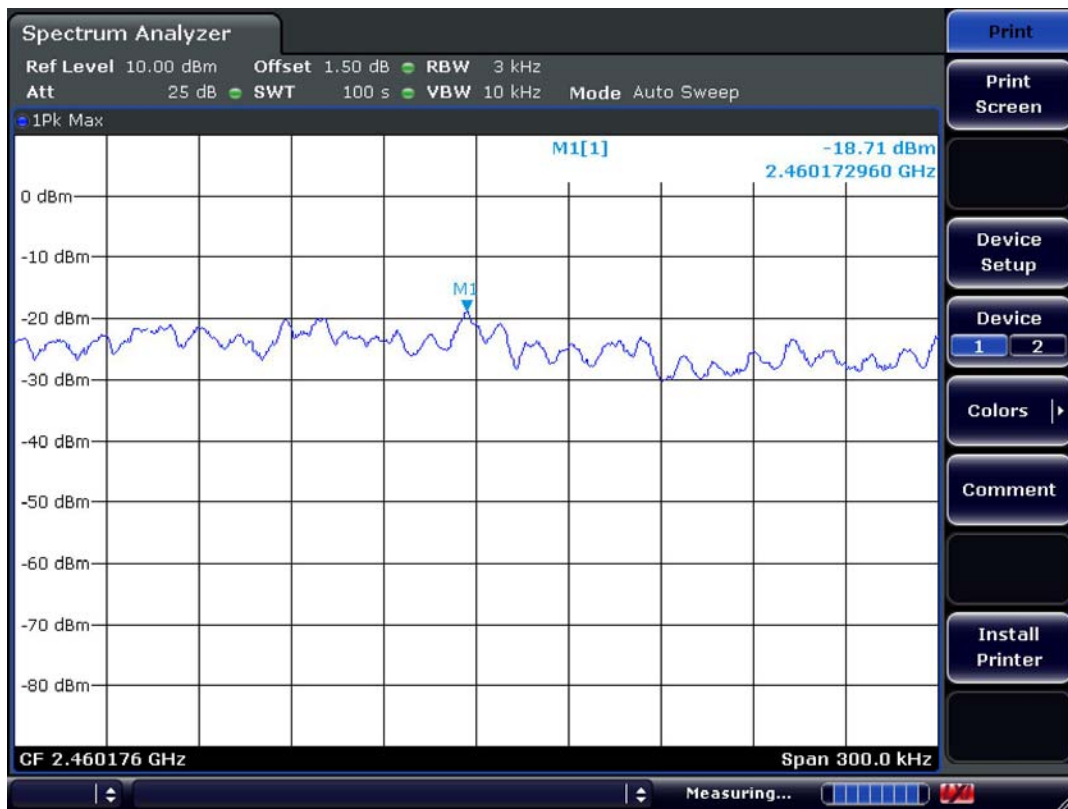
CH 1



CH 6



CH 11



3.2.4 Band - edge

Procedure:

The bandwidth at 20dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

VBW = 100 kHz

Span = 40 MHz

Detector function = peak

Trace = max hold

Sweep = auto

Radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

The spectrum analyzer is set to:

Center frequency = the highest, the lowest channels

PEAK:

RBW = VBW = 1MHz, Sweep=Auto

Average:

RBW = 1MHz, VBW=10Hz, Sweep=Auto

Measurement Distance:

3m

Polarization:

Horizontal / Vertical

Measurement Data: Complies

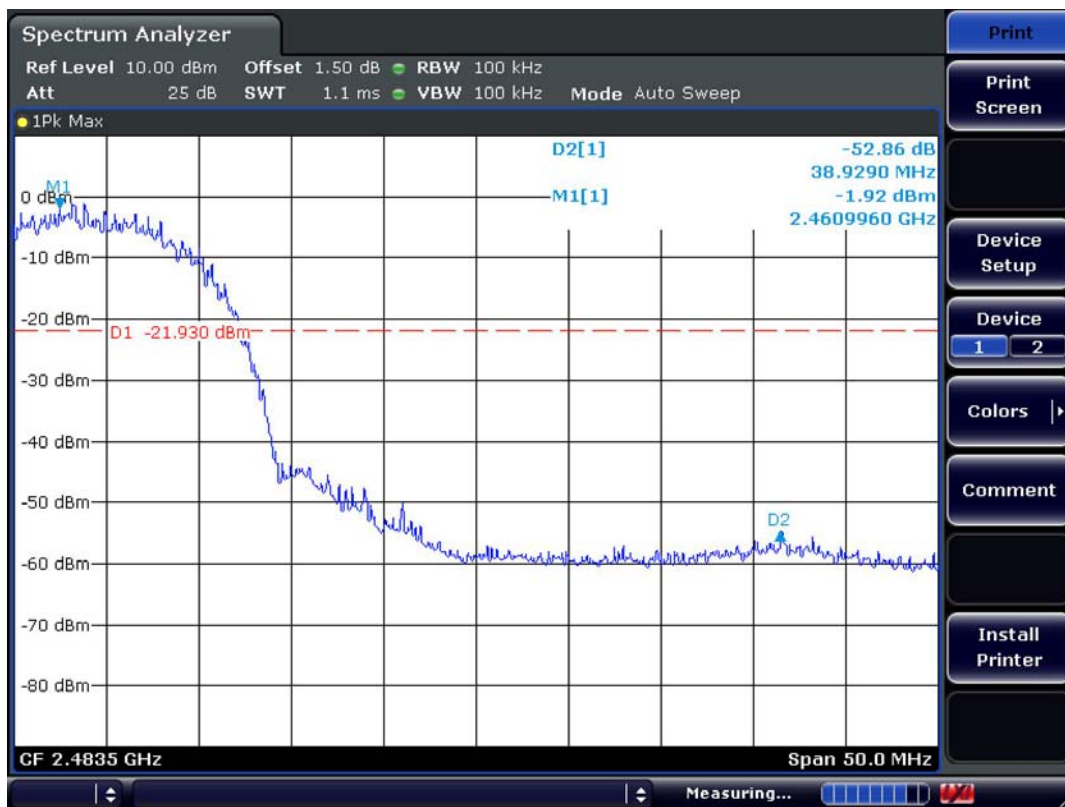
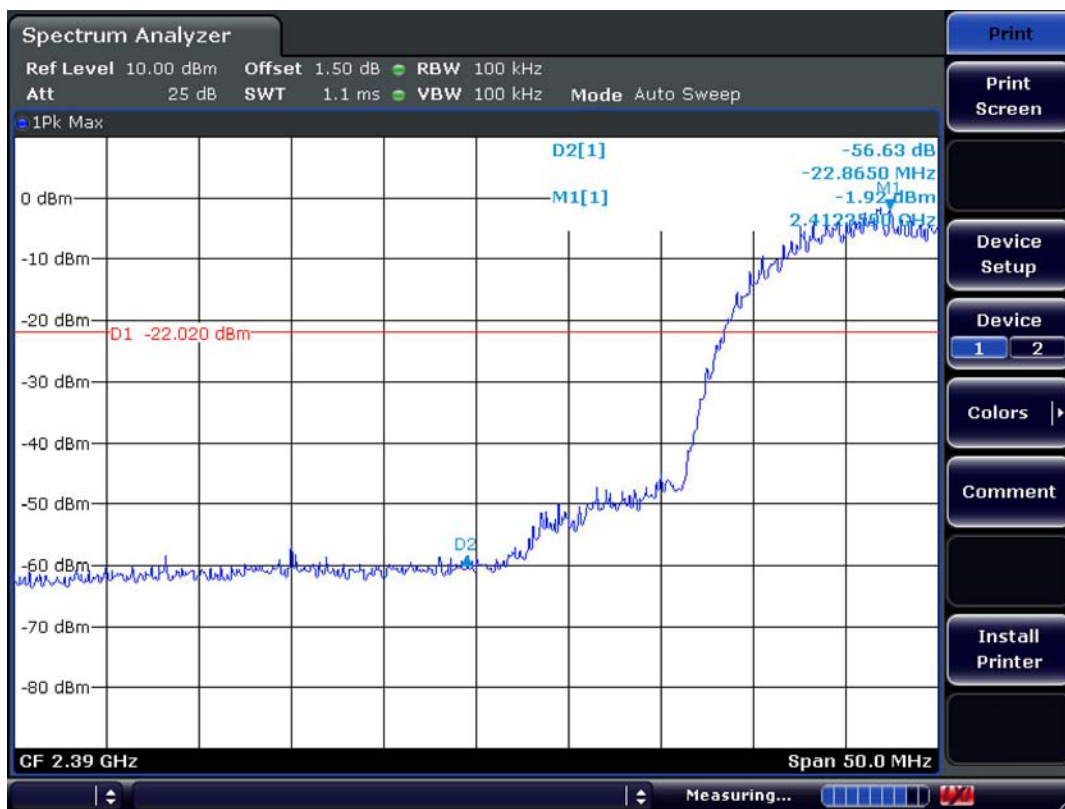
- All conducted emission in any 100kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.
- See next pages for actual measured spectrum plots.

Minimum Standard:	> 20 dBc
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Minimum Standard: FCC Part 15.209(a)

Frequency (MHz)	Limit (uV/m) @ 3m
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

802.11b Band-edge : Conducted Measurements



Band-edges in the restricted band 2483.5 ~ 2500 MHz measurement

- Document DA 00-705 Marker Delta Method

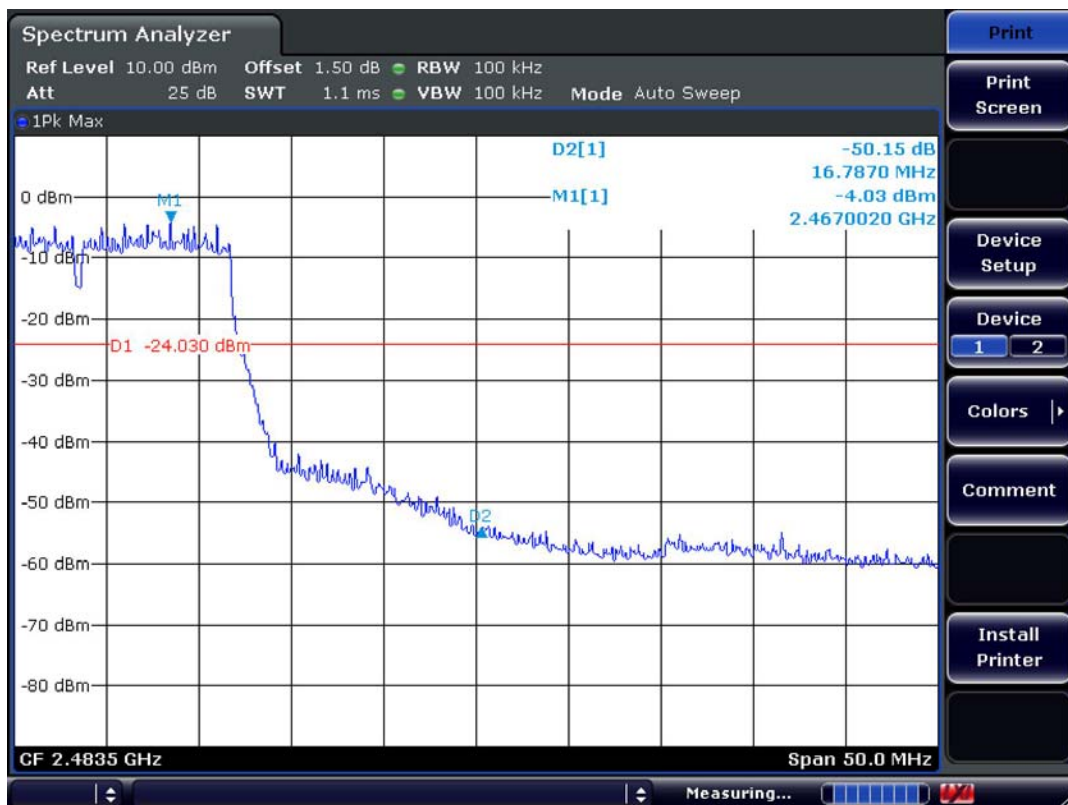
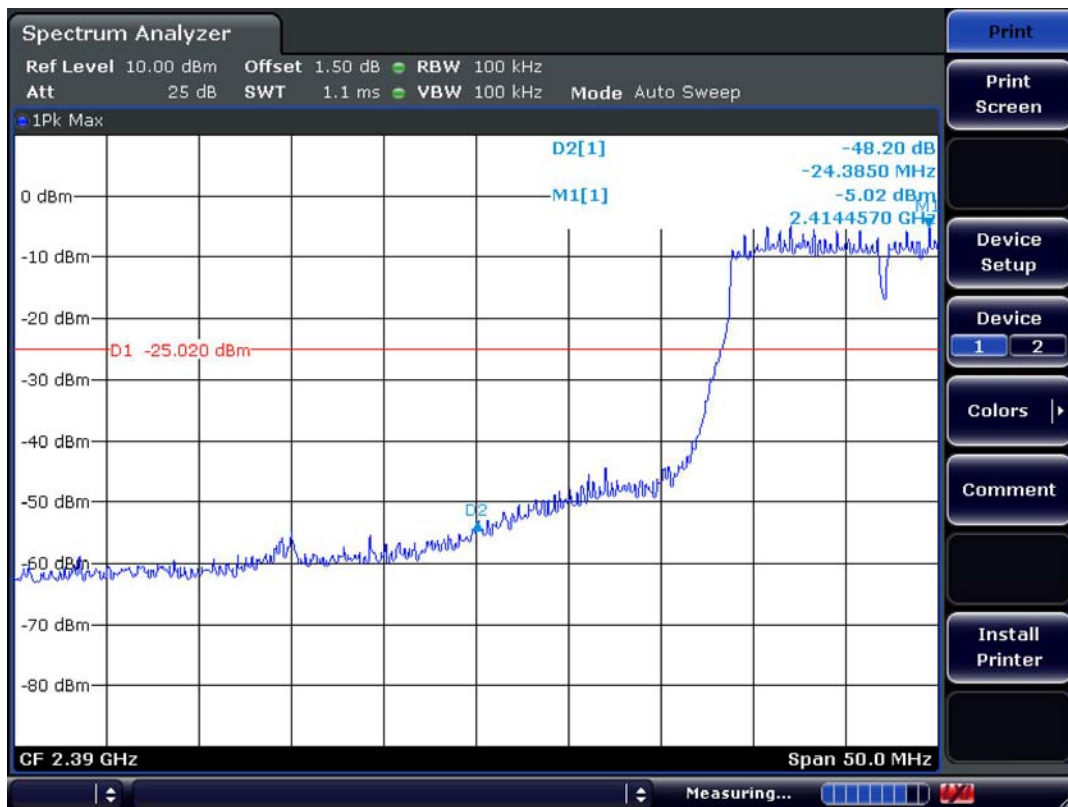
Frequency (MHz)	Detect mode	Pol.	Reading (dBuV/m)	T.F (dB)	Step 1 Data	delta	Step 3 Data	Limit
2462	PK	H	100.05	1.1	101.15	52.86	48.29	74
	AV	H	92.34	1.1	93.44	52.86	40.58	54

Note) Step 1 = Reading + T.F

(T.F = Ant.F + Cable loss – PreAmp Gain)

Step 3 = Step 1 – Delta Value

802.11g Band-edge : Conducted Measurements



Band-edges in the restricted band 2310~2390 MHz measurement

- Document DA 00-705 Marker Delta Method

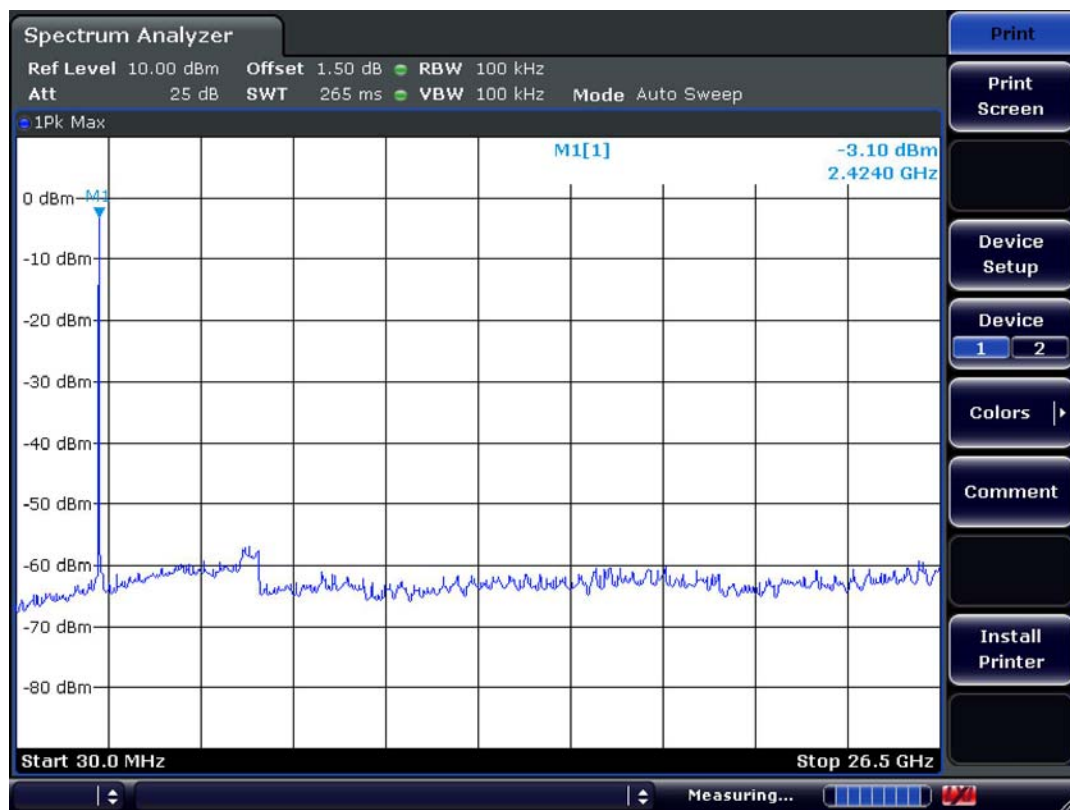
Frequency (MHz)	Detect mode	Pol.	Reading (dBuV/m)	T.F (dB)	Step 1 Data	delta	Step 3 Data	Limit
2390	PK	H	96.54	1.1	97.64	48.20	49.44	74
	AV	H	88.42	1.1	89.52	48.20	41.32	54

Note) Step 1 = Reading + T.F

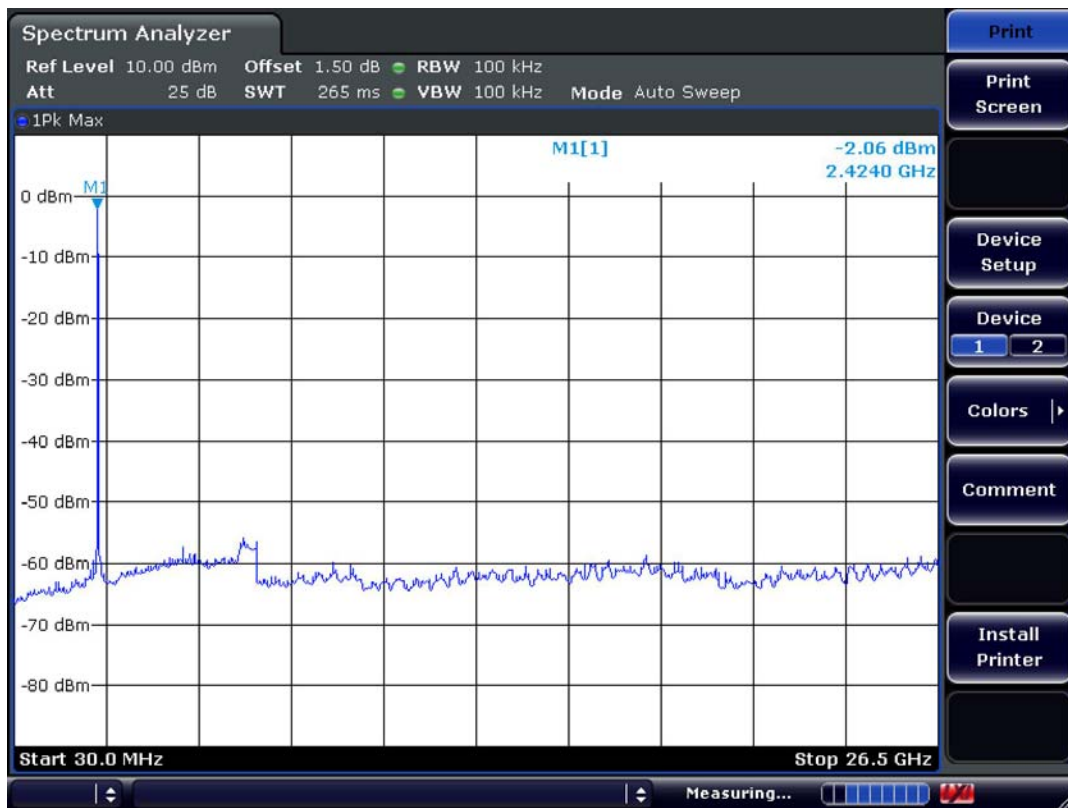
(T.F = Ant.F + Cable loss – PreAmp Gain)

Step 3 = Step 1 – Delta Value

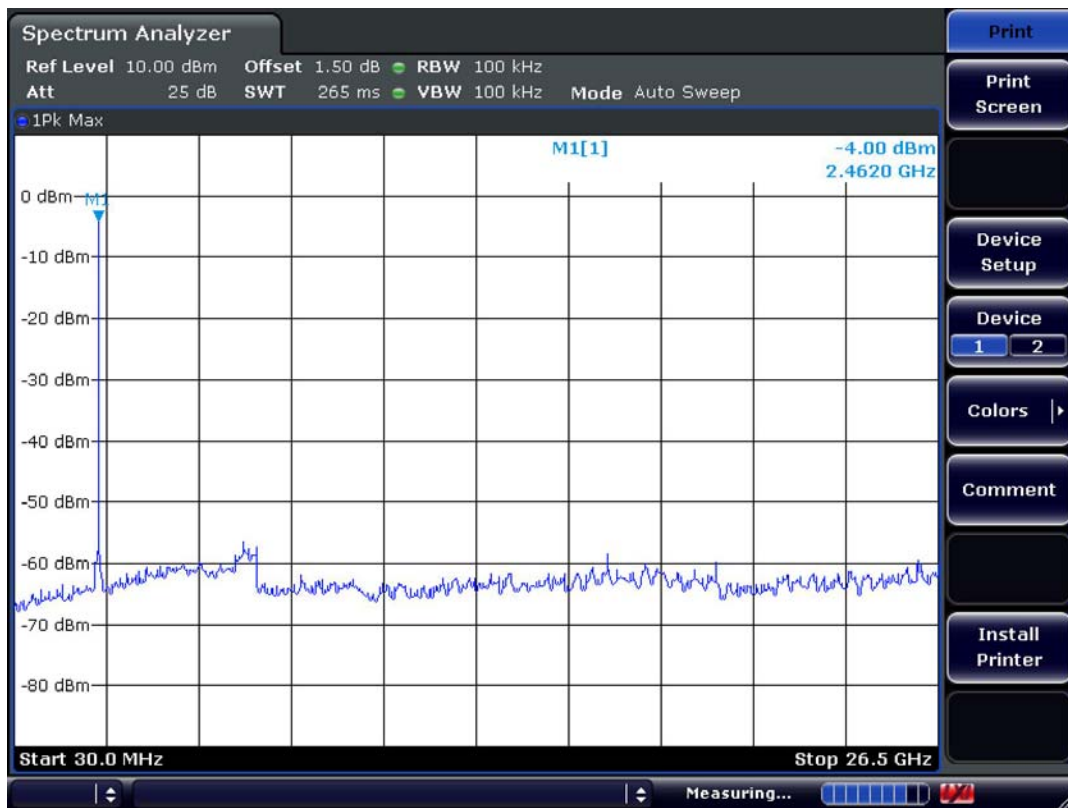
802.11b - Low channel
Frequency Range = 30 MHz ~ 10th harmonic.



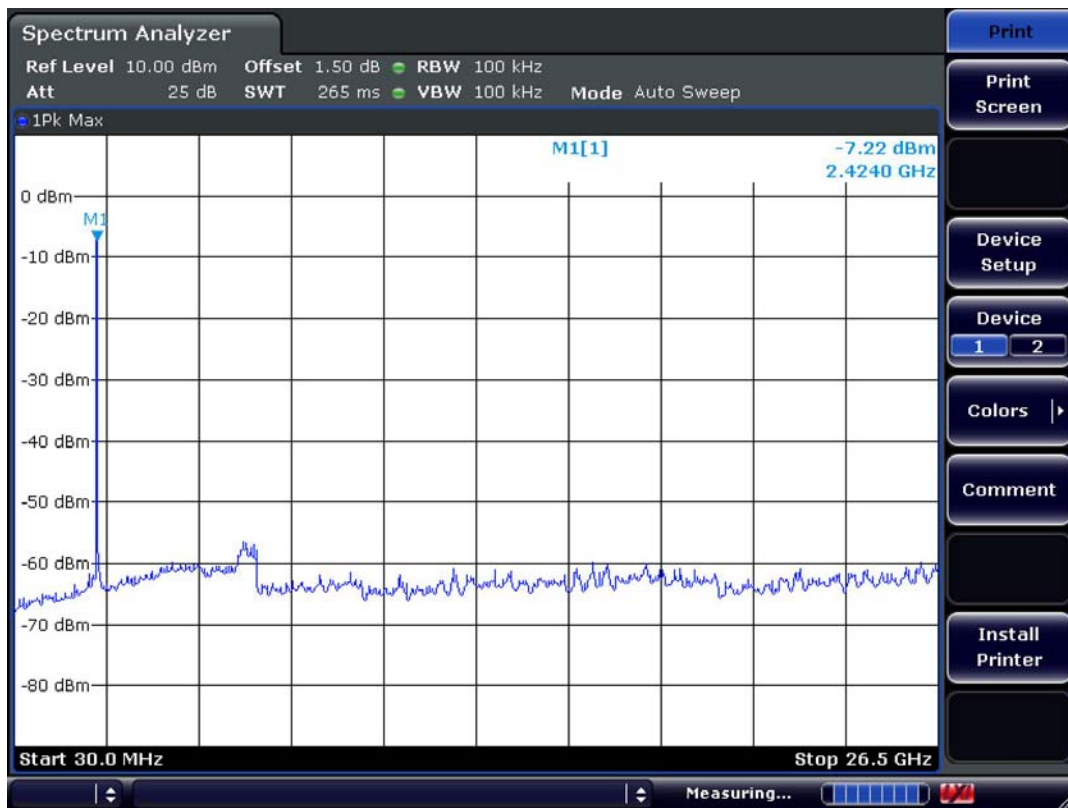
802.11b - Mid channel
Frequency Range = 30 MHz ~ 10th harmonic.



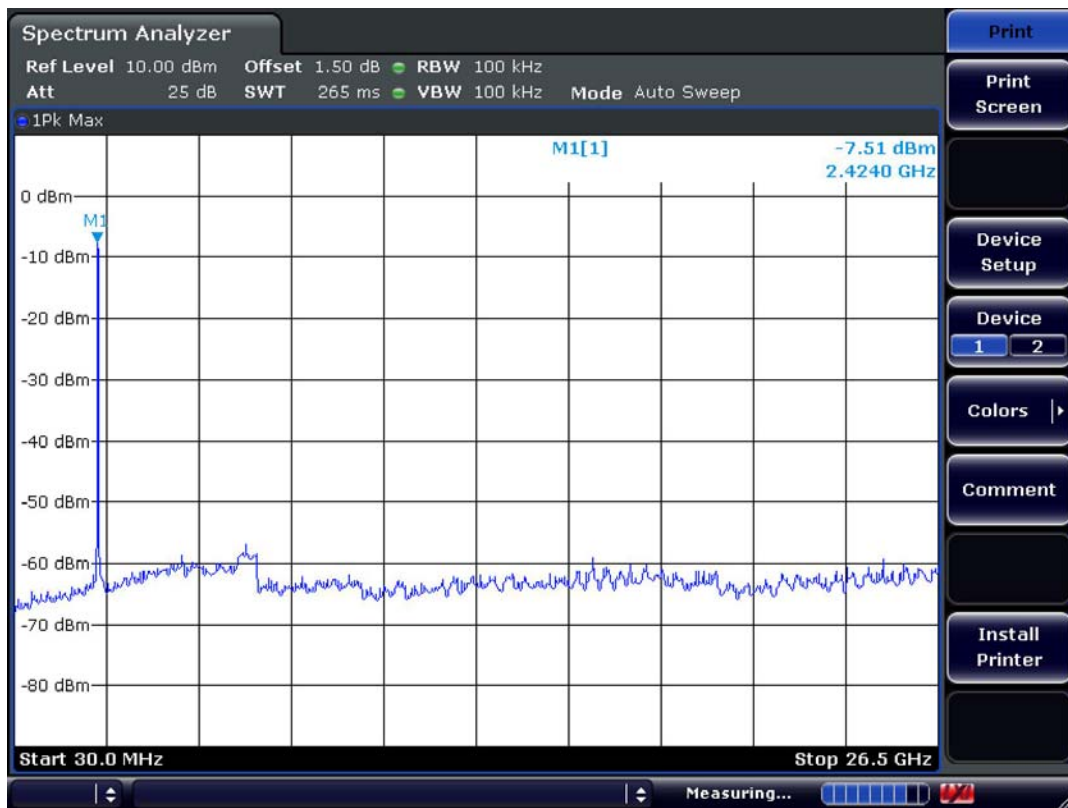
802.11b – High channel
Frequency Range = 30 MHz ~ 10th harmonic.



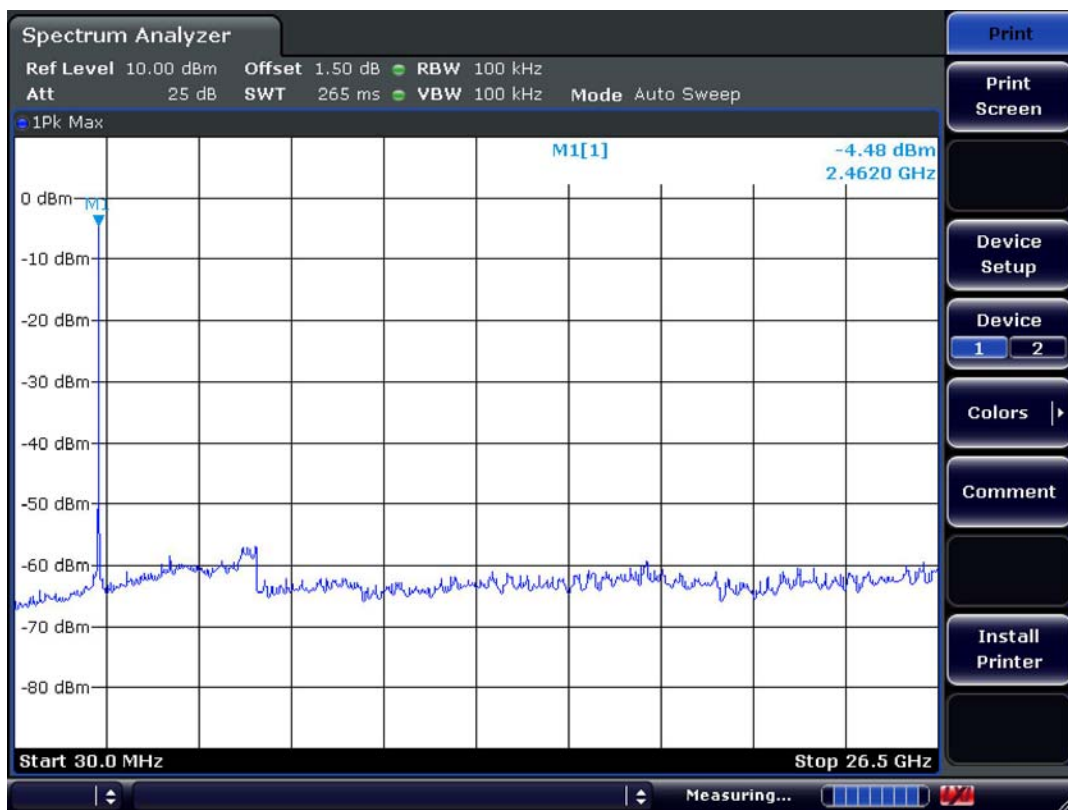
802.11g - Low channel
Frequency Range = 30 MHz ~ 10th harmonic.



802.11g - Mid channel
Frequency Range = 30 MHz ~ 10th harmonic.



802.11g – High channel
Frequency Range = 30 MHz ~ 10th harmonic.



3.2.5 Field Strength of Harmonics

Procedure:

The EUT was placed on a 0.8m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 30 MHz ~ 10th harmonic.

RBW = 100 kHz (30MHz ~ 1 GHz)

VBW ≥ RBW

= 1 MHz (1 GHz ~ 10th harmonic)

Span = 100 MHz

Detector function = peak

Trace = max hold

Sweep = auto

Measurement Data: Complies

- See next pages for actual measured data.

Minimum Standard: FCC Part 15.209(a)

Frequency (MHz)	Limit (uV/m) @ 3m
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

Minimum Standard: FCC Part 15.109

Frequency (MHz)	Limit (uV/m) @ 10m
30 ~ 88	90
88 ~ 216	150
216 ~ 960	210
Above 960	300

802.11b Measurement Data:

Low channel		Mid channel		High channel	
Frequency (MHz)	Level (dBuV)	Frequency (MHz)	Level (dBuV)	Frequency (MHz)	Level (dBuV)
-	-	-	-	-	-
-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.					
-	-	-	-	-	-
-	-	-	-	-	-
Measurement uncertainty		± 6 dB			

802.11g Measurement Data:

Low channel		Mid channel		High channel	
Frequency (MHz)	Level (dBuV)	Frequency (MHz)	Level (dBuV)	Frequency (MHz)	Level (dBuV)
-	-	-	-	-	-
-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.					
-	-	-	-	-	-
-	-	-	-	-	-
Measurement uncertainty		± 6 dB			

Radiated Emissions – FILE COPY Mode

243 Jubug-ni, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel :+82-31-3236008,9
Fax:+82-31-3236010

EUT/Model No.: DPF-801W

TEST MODE: FILE COPY mode

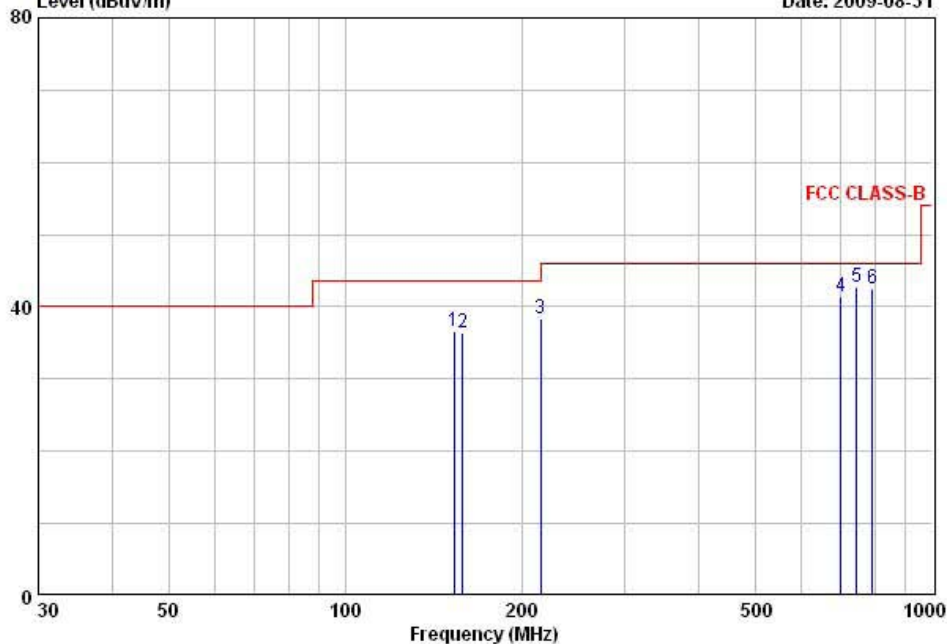
Temp Humi : 25 / 48

Tested by: KIM.K.I

Data: 97

Level (dBuV/m)

Date: 2009-08-31



	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dBuV/m	dB/m	dBuV/m	QP	dB	cm	deg	
1	153.26	48.30	-11.60	36.70	43.50	6.80	142	205	HORIZONTAL
2	158.38	48.10	-11.67	36.43	43.50	7.07	152	207	HORIZONTAL
3	215.53	50.10	-11.75	38.35	43.50	5.15	125	214	HORIZONTAL
4	699.01	42.50	-1.12	41.38	46.00	4.62	153	162	HORIZONTAL
5	744.10	43.10	-0.28	42.82	46.00	3.18	172	213	HORIZONTAL
6	792.15	41.90	0.62	42.52	46.00	3.48	244	153	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions – FILE UP / DOWN Mode

243 Jubug-ni, yangji-Myeon, Youngin-si,
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Tel :+82-31-3236008,9
Fax:+82-31-3236010

EUT/Model No.: DPF-801W

TEST MODE: FILE UP / DOWN mode

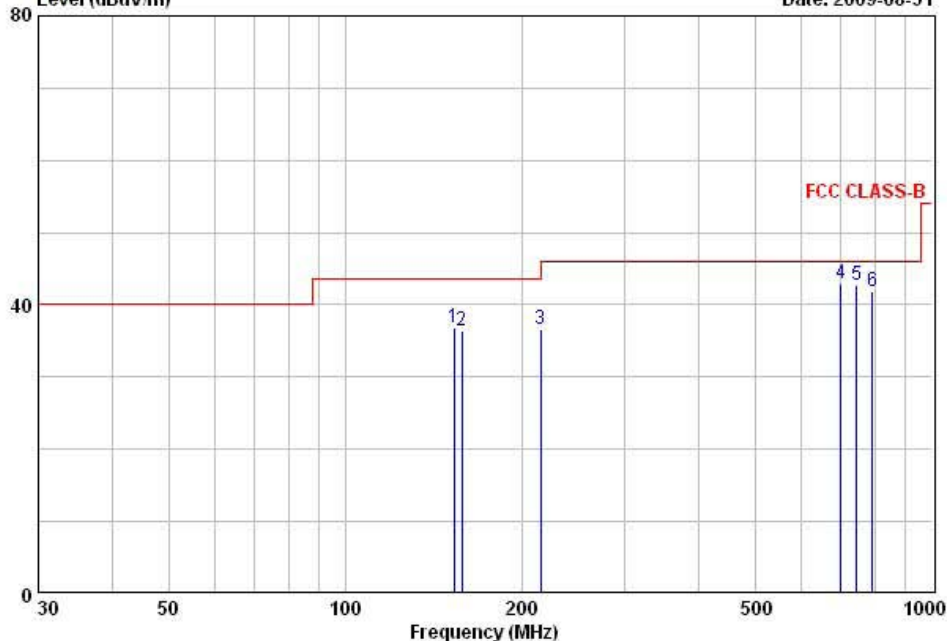
Temp Humi : 25 / 48

Tested by: KIM.K.I

Data: 98

Level (dBuV/m)

Date: 2009-08-31



	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	153.25	48.50	-11.60	36.90	43.50	6.60	129	204	HORIZONTAL
2	158.35	48.10	-11.67	36.43	43.50	7.07	142	221	HORIZONTAL
3	215.53	48.40	-11.75	36.65	43.50	6.85	132	212	HORIZONTAL
4	699.02	44.10	-1.12	42.98	46.00	3.02	204	132	HORIZONTAL
5	744.12	43.10	-0.28	42.82	46.00	3.18	154	213	HORIZONTAL
6	792.12	41.20	0.62	41.82	46.00	4.18	210	271	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions – WLAN Mode

243 Jubug-ni, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel :+82-31-3236008,9
Fax:+82-31-3236010

EUT/Model No.: DPF-801W

TEST MODE: WLAN mode

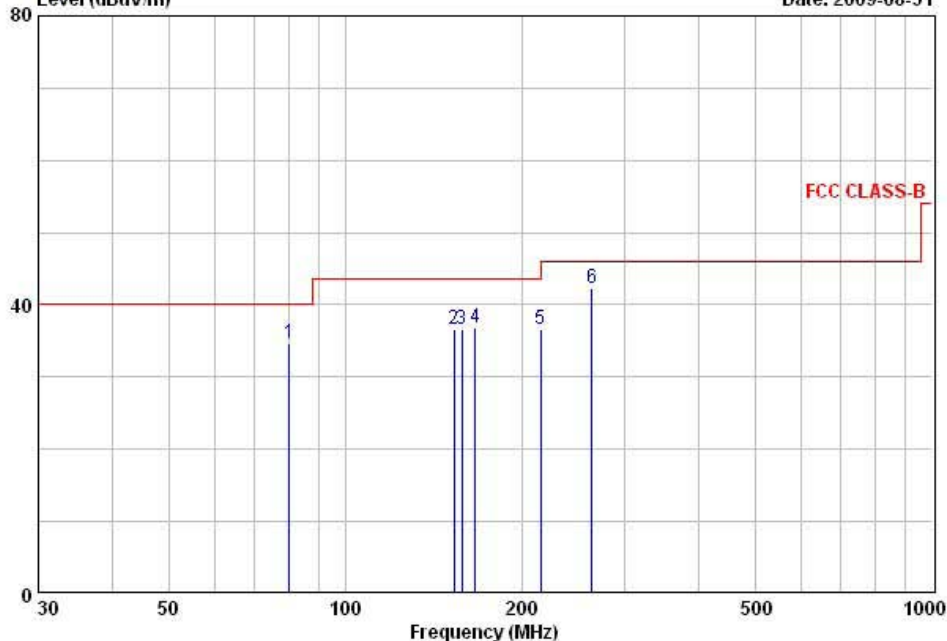
Temp Humi : 25 / 48

Tested by: KIM.K.I

Data: 99

Level (dBuV/m)

Date: 2009-08-31



Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1 80.25	51.60	-16.98	34.62	40.00	5.38	100	172	VERTICAL
2 153.24	48.30	-11.60	36.70	43.50	6.80	142	153	HORIZONTAL
3 158.26	48.30	-11.67	36.63	43.50	6.87	142	152	HORIZONTAL
4 166.84	48.50	-11.72	36.78	43.50	6.72	172	211	HORIZONTAL
5 215.52	48.30	-11.75	36.55	43.50	6.95	210	74	HORIZONTAL
6 263.21	52.10	-9.77	42.33	46.00	3.67	187	144	HORIZONTAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

3.2.8 AC Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: Complies

- See next pages for actual measured spectrum plots.
- No emissions were detected at a level greater than 10dB below limit.

Minimum Standard: FCC Part 15.207(a)/EN 55022

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

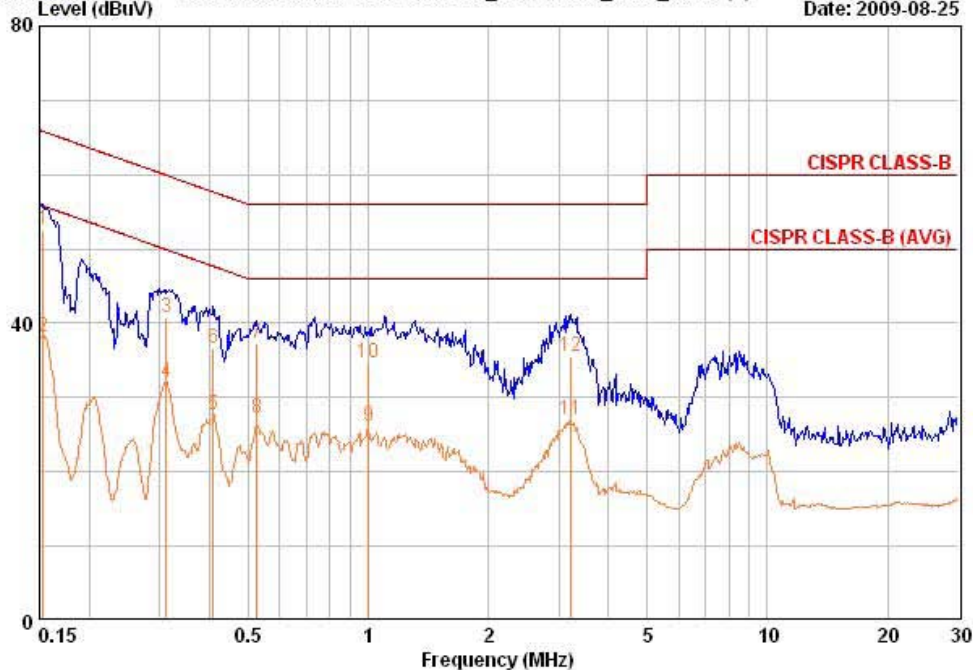
* Decreases with the logarithm of the frequency

AC Conducted Emissions – FILE COPY – Line

243 Jubug-ri, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel +82-31-323-6008
Fax: +82-31-323-6010

EUT / Model No. : DPF-801W	Phase : LINE
Test Mode : FILE COPY mode	Test Power : 120 / 60
Temp./Humi. : 23 / 54	Test Engineer : KIM.K.I

Data: 6 File: D:\Conducted Data\2009\LTA_Conduction_0908_2.EMI (6) Date: 2009-08-25



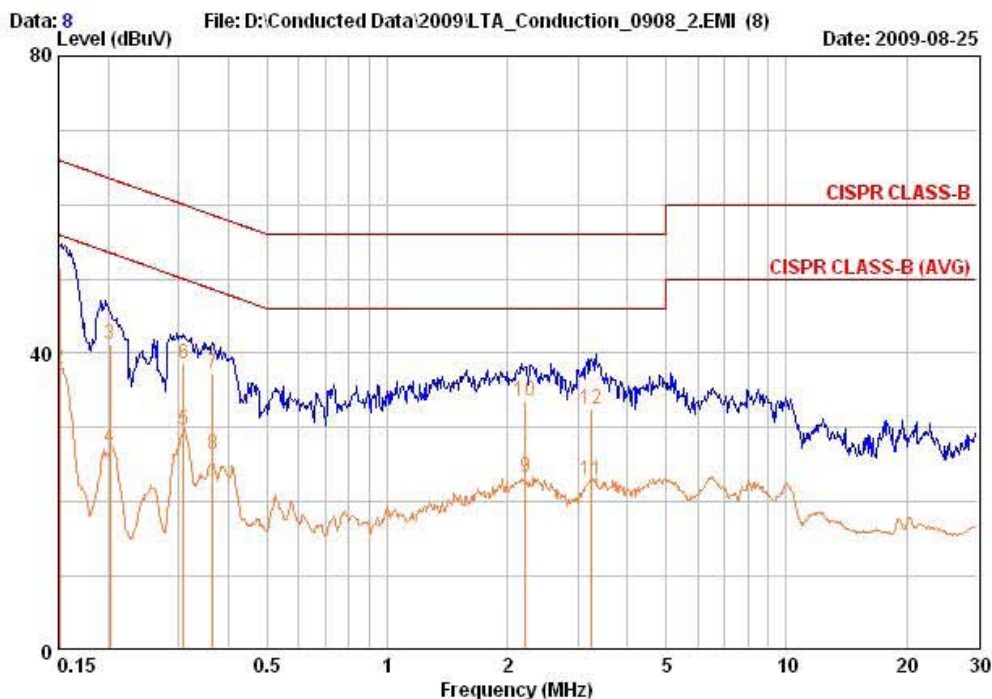
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MHz	QP	AV		QP	AV	QP	AV	QP	AV
	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.153	42.80	28.50	9.74	52.54	38.24	65.84	55.84	13.29	17.59
0.312	31.17	22.37	9.68	40.85	32.05	59.92	49.92	19.07	17.87
0.409	26.96	17.96	9.68	36.64	27.64	57.67	47.67	21.03	20.03
0.526	27.65	17.55	9.73	37.37	27.27	56.00	46.00	18.63	18.73
1.000	24.95	16.45	9.78	34.73	26.23	56.00	46.00	21.27	19.77
3.225	25.54	17.04	9.92	35.46	26.96	56.00	46.00	20.54	19.04

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions – FILE COPY – Neutral

243 Jubug-ni, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel +82-31-323-6008
Fax: +82-31-323-6010

EUT / Model No. : DPF-801W	Phase : NEUTRAL
Test Mode : FILE COPY mode	Test Power : 120 / 60
Temp./Humi. : 23 / 54	Test Engineer : KIM.K.I

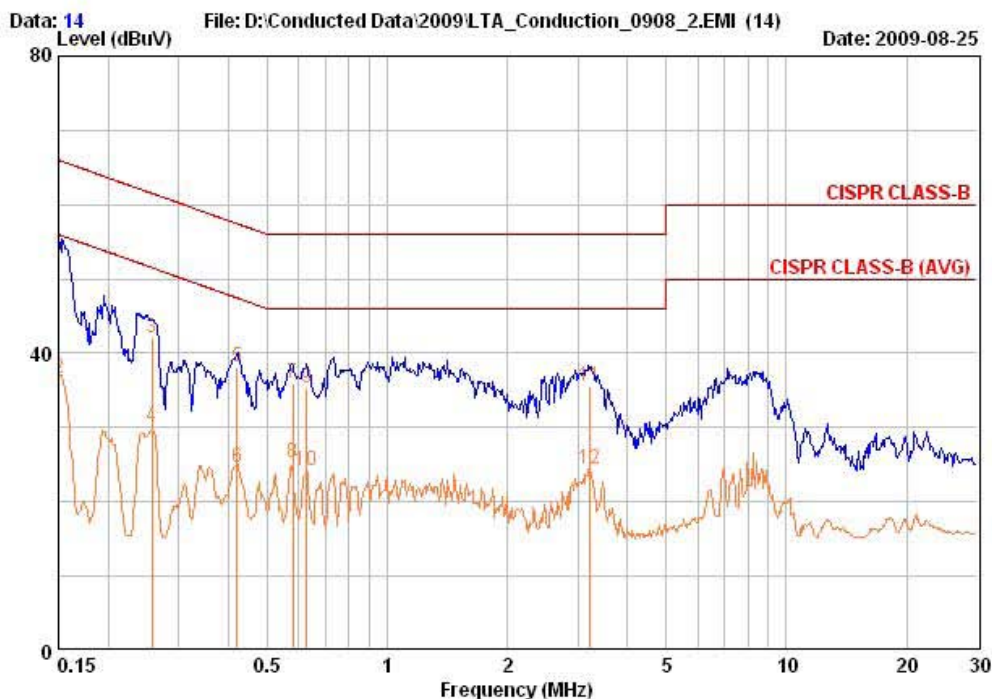


Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions – WLAN – Line

243 Jubug-ri, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel +82-31-323-6008
Fax: +82-31-323-6010

EUT / Model No. : DPF-801W	Phase : LINE
Test Mode : WLAN mode	Test Power : 120 / 60
Temp./Humi. : 23 / 54	Test Engineer : KIM.K.I



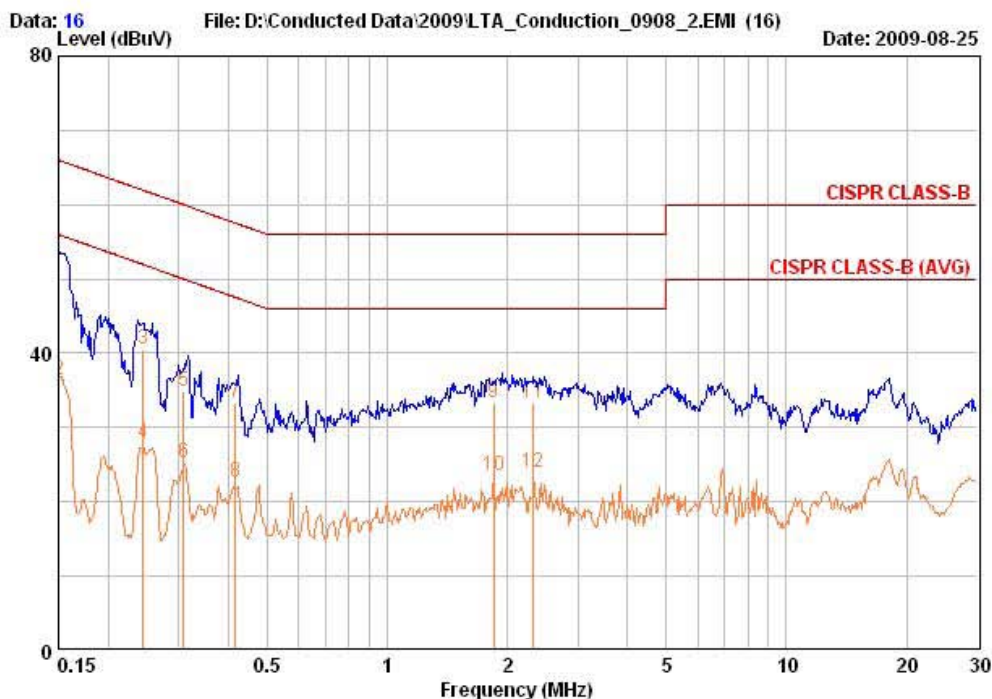
Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV	dB	QP	AV	QP	AV	QP	AV
	dBuV	dBuV		dBuV	dBuV	dBuV	dBuV	dB	dB
0.150	42.30	26.90	9.75	52.05	36.65	66.00	56.00	13.95	19.35
0.257	32.38	20.48	9.67	42.05	30.15	61.53	51.53	19.48	21.38
0.420	28.46	14.96	9.68	38.14	24.64	57.45	47.45	19.31	22.81
0.579	26.24	15.54	9.77	36.01	25.31	56.00	46.00	19.99	20.69
0.629	25.44	14.44	9.78	35.22	24.22	56.00	46.00	20.78	21.78
3.216	25.64	14.44	9.92	35.56	24.36	56.00	46.00	20.44	21.64

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions – WLAN – Neutral

243 Jubug-ri, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel +82-31-323-6008
Fax: +82-31-323-6010

EUT / Model No. : DPF-801W	Phase : NEUTRAL
Test Mode : WLAN mode	Test Power : 120 / 60
Temp./Humi. : 23 / 54	Test Engineer : KIM.K.I



Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV	dB	QP	AV	QP	AV	QP	AV
	dBuV	dBuV		dBuV	dBuV	dBuV	dBuV	dB	dB
0.150	40.50	26.60	9.72	50.22	36.32	66.00	56.00	15.78	19.68
0.244	30.88	18.28	9.69	40.57	27.97	61.96	51.96	21.39	23.99
0.309	25.27	15.67	9.64	34.91	25.31	60.00	50.00	25.09	24.69
0.416	23.66	12.96	9.73	33.39	22.69	57.53	47.53	24.14	24.84
1.844	23.55	13.65	9.79	33.34	23.44	56.00	46.00	22.66	22.56
2.322	23.46	14.06	9.84	33.30	23.90	56.00	46.00	22.70	22.10

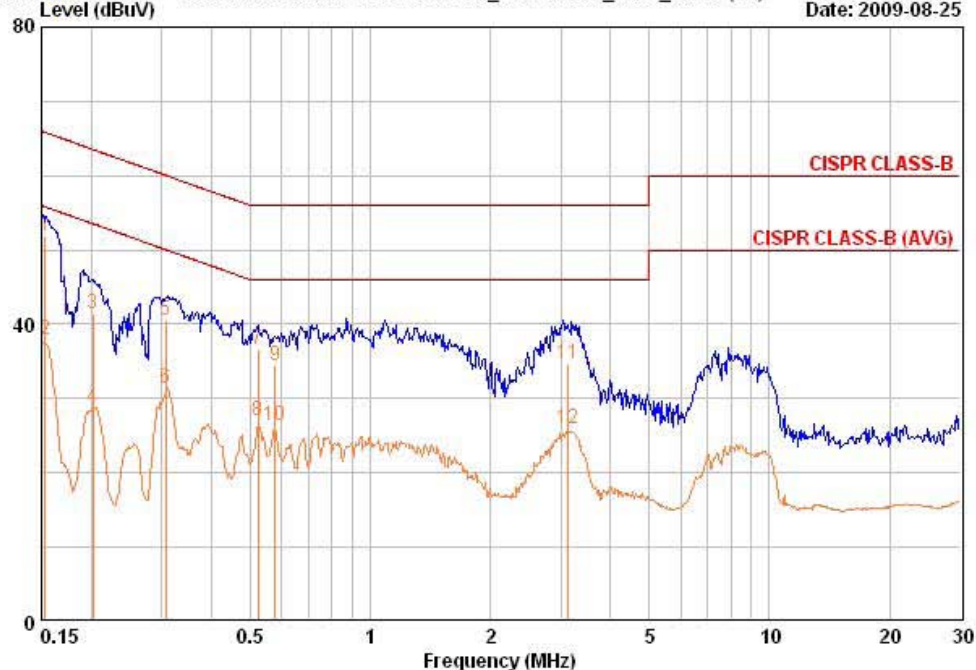
Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions – FILE UP / DOWN – Line

243 Jubug-ri, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel +82-31-323-6008
Fax: +82-31-323-6010

EUT / Model No. : DPF-801W	Phase : LINE
Test Mode : FILE UP / DOWN mode	Test Power : 120 / 60
Temp./Humi. : 23 / 54	Test Engineer : KIM.K.I

Data: 12 File: D:\Conducted Data\2009\LTA_Conduction_0908_2.EMI (12) Date: 2009-08-25



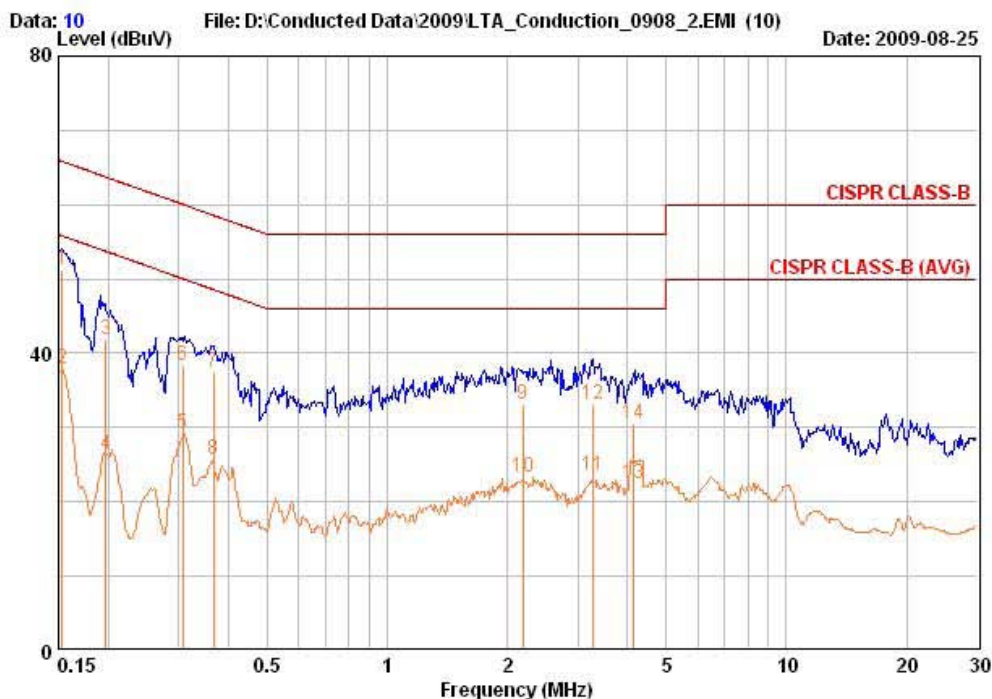
Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV	dB	QP	AV	QP	AV	QP	AV
	dBuV	dBuV		dBuV	dBuV	dBuV	dBuV	dB	dB
0.153	42.10	28.20	9.74	51.84	37.94	65.84	55.84	13.99	17.89
0.202	31.89	19.09	9.62	41.50	28.70	63.53	53.53	22.03	24.83
0.307	30.87	21.67	9.67	40.54	31.34	60.05	50.05	19.51	18.71
0.524	26.95	17.35	9.72	36.67	27.07	56.00	46.00	19.33	18.93
0.578	24.64	16.54	9.77	34.41	26.31	56.00	46.00	21.59	19.69
3.136	24.64	15.94	9.91	34.55	25.85	56.00	46.00	21.45	20.15

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

AC Conducted Emissions – FILE UP / DOWN – Neutral

243 Jubug-ri, yangji-Myeon, Youngin-si,
Gyeonggi-do 449-822 Korea
Tel +82-31-323-6008
Fax: +82-31-323-6010

EUT / Model No. : DPF-801W	Phase : NEUTRAL
Test Mode : FILE UP / DOWN mode	Test Power : 120 / 60
Temp./Humi. : 23 / 54	Test Engineer : KIM.K.I



Freq	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
MHz	QP	AV	dB	QP	AV	QP	AV	QP	AV
	dBuV	dBuV		dBuV	dBuV	dBuV	dBuV	dB	dB
0.153	41.50	28.10	9.73	51.23	37.83	65.84	55.84	14.61	18.01
0.197	32.19	16.79	9.67	41.86	26.46	63.74	53.74	21.88	27.28
0.307	28.67	19.47	9.64	38.31	29.11	60.05	50.05	21.74	20.94
0.367	27.76	16.06	9.71	37.47	25.77	58.57	48.57	21.10	22.80
2.183	23.36	13.46	9.81	33.17	23.27	56.00	46.00	22.83	22.73
3.275	23.34	13.64	9.85	33.19	23.49	56.00	46.00	22.81	22.51
4.157	20.64	12.44	9.92	30.56	22.36	56.00	46.00	25.44	23.64

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

APPENDIX

TEST EQUIPMENT USED FOR TESTS

	Description	Model No.	Serial No.	Manufacturer	Next Cal. Date
1	Spectrum Analyzer	FSV-30	100757	R&S	Feb-10
2	Spectrum Analyzer	8563E	3425A02505	HP	Apr-10
3	Spectrum Analyzer	8594E	3710A04074	HP	Oct-09
4	Signal Generator	8648C	3623A02597	HP	Apr-10
5	Signal Generator	83711B	US34490456	HP	Apr-10
6	Attenuator (3dB)	8491A	37822	HP	Oct-09
7	Attenuator (10dB)	8491A	63196	HP	Oct-09
8	Attenuator (30dB)	8498A	1801A06689	HP	Oct-09
9	EMI Test Receiver	ESVD	843748/001	R&S	Apr-10
10	Horn Antenna(18 ~ 40GHz)	SAS-574	154	Schwarzbeck	Nov-10
11	Horn Antenna(18 ~ 40GHz)	SAS-574	155	Schwarzbeck	Nov-10
12	RF Amplifier	8447D	2949A02670	HP	Oct-10
13	RF Amplifier	8449B	3008A02126	HP	Apr-10
14	Test Receiver	ESHS10	828404/009	R&S	Apr-10
15	TRILOG Antenna	VULB 9160	9160-3212	SCHWARZBECK	Apr-11
16	Log.-Per. Antenna	VULP 9118	9118 A 401	SCHWARZBECK	Apr-11
17	Biconical Antenna	BBA 9106	VHA 9103-2315	SCHWARZBECK	Apr-11
18	Horn Antenna	3115	00055005	ETS LINDGREN	Mar-11
19	Horn Antenna	BBHA 9120D	9120D122	SCHWARZBECK	Dec-11
20	Dipole Antenna	VHA9103	2116	SCHWARZBECK	Nov-09
21	Dipole Antenna	VHA9103	2117	SCHWARZBECK	Nov-09
22	Dipole Antenna	VHA9105	2261	SCHWARZBECK	Nov-09
23	Dipole Antenna	VHA9105	2262	SCHWARZBECK	Nov-09
24	Hygro-Thermograph	THB-36	0041557-01	ISUZU	Apr-10
25	Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-
26	RF Switch	MP59B	6200414971	ANRITSU	-
27	Power Divider	11636A	6243	HP	Oct-09
28	DC Power Supply	6622A	3448A03079	HP	Oct-09
29	Frequency Counter	5342A	2826A12411	HP	Apr-10
30	Power Meter	EPM-441A	GB32481702	HP	Apr-10
31	Power Sensor	8481A	2702A64048	HP	Apr-10
32	Audio Analyzer	8903B	3729A18901	HP	Oct-09
33	Modulation Analyzer	8901B	3749A05878	HP	Oct-09
34	TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	Oct-09
35	LOOP-ANTENNA	FMZB 1516	151602/94	SCHWARZBECK	Mar-11
36	Stop Watch	HS-3	601Q09R	CASIO	Apr-10
37	LISN	ENV216	100408	R&S	Oct-09