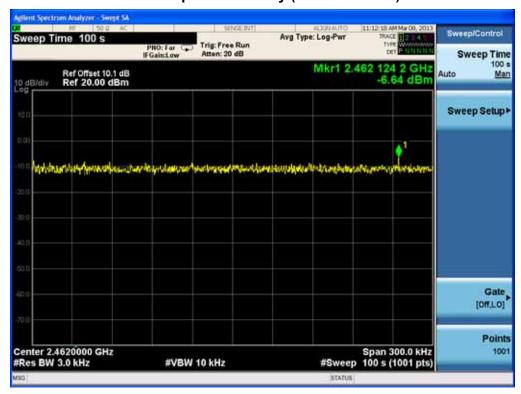


#### Power Spectral Density (802.11b-CH 11)



### Power Spectral Density (802.11g-CH 1)

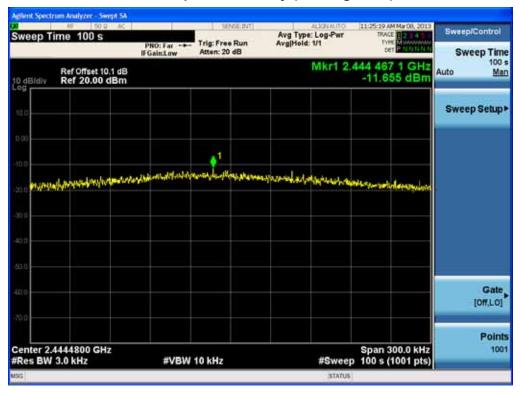


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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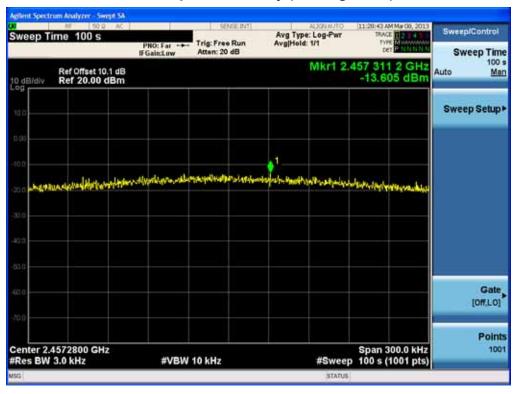
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### Power Spectral Density (802.11g-CH 6)



### Power Spectral Density (802.11g-CH11)



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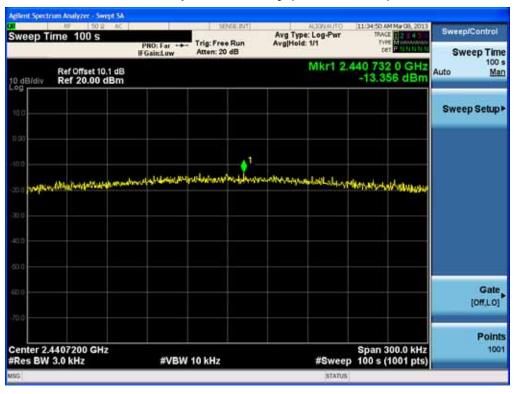
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### Power Spectral Density (802.11n-CH 1)



### Power Spectral Density (802.11n-CH 6)

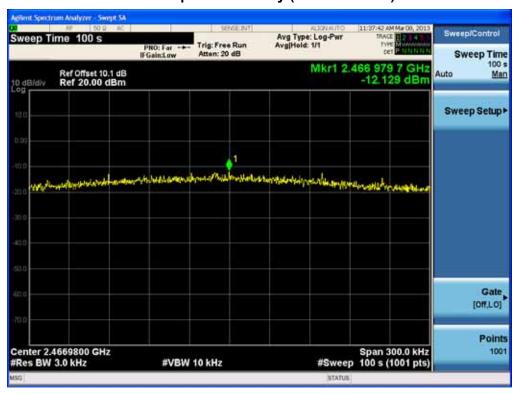


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### Power Spectral Density (802.11n-CH11)



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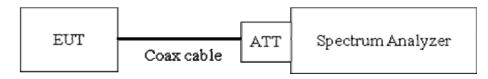


# 8.4 OUT OF BAND EMISSIONS AT THE BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS Test Requirements and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

#### Limit: 20 dBc

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

The transmitter output is connected to the spectrum analyzer. (Procedure 7.7.10 in ANSI 63.10)

RBW = 100 kHz(Upon 1 GHz = 1 MHz)

VBW = 300 kHz(Upon 1 GHz = 1 MHz)

Set span to encompass the spectrum to be examined

Detector = Peak

Trace Mode = max hold

Sweep = auto couple

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.

#### Note:

- 1. The band edge results in plot is already including the actual values of loss for the attenuator and cable combination.
- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table.

So, 10.1 dB is offset. And the offset gap in the 2.4 GHz range do not affect the band edge final result.

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Band	Frequency(MHz)	Loss(dB)
	2412	10.11
2.4 GHz	2437	10.10
	2462	10.12

(Actual value of loss for the attenuator and cable combination)

5. In case of conducted spurious emissions test, please check factors blow table.

#### **FACTORS FOR FREQUENCY**

FACTORS FOR FREQUENCY					
Freq(MHz)	Factor(dB)				
30	10.37				
100	10.16				
200	10.15				
300	10.14				
400	10.18				
500	10.19				
600	10.20				
700	10.30				
800	10.25				
900	10.28				
1000	10.29				
2000	10.17				
2412*	10.11				
2437*	10.10				
2462*	10.12				
3000	10.26				
4000	10.31				
5000	9.85				
6000	10.20				
7000	10.60				
8000	10.53				
9000	10.23				
10000	10.41				
11000	10.65				
12000	11.19				
13000	10.97				
14000	11.42				
15000	12.01				
16000	11.77				
17000	10.78				
18000	10.76				
19000	11.15				
20000	10.75				
21000	10.82				
22000	10.82				
23000	11.26				
24000	11.08				
25000	11.18				
26000	10.90				

Note: 1. '\*' is fundamental frequency range.

2. Factor = Cable loss + Attenuator loss

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#### **RESULT PLOTS**

### BandEdge (802.11b-CH1)



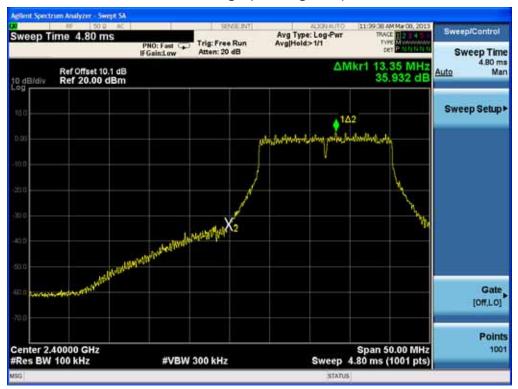
#### **BandEdge (802.11b-CH11)**



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### BandEdge (802.11g-CH1)



### **BandEdge (802.11g-CH11)**

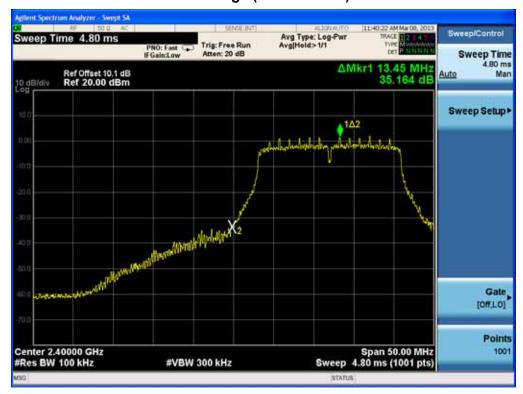


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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#### BandEdge (802.11n-CH1)



### **BandEdge (802.11n-CH11)**



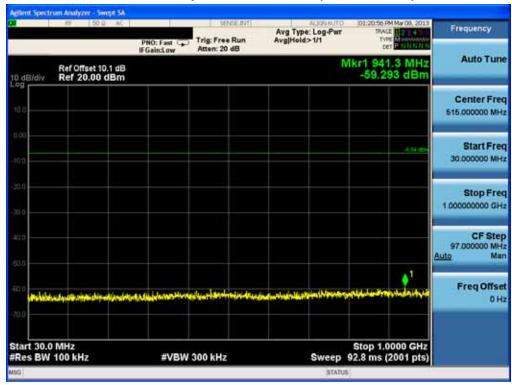
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
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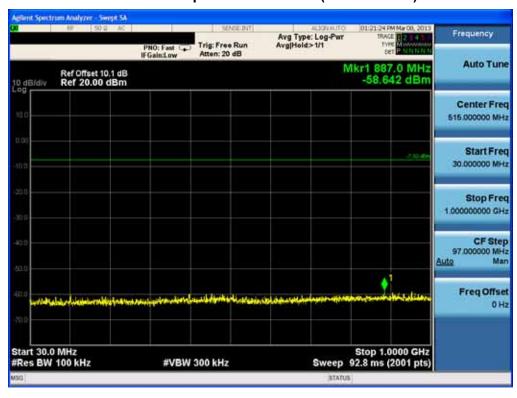


#### 30 MHz ~ 1 GHz

#### **Conducted Spurious Emission (802.11b-CH1)**



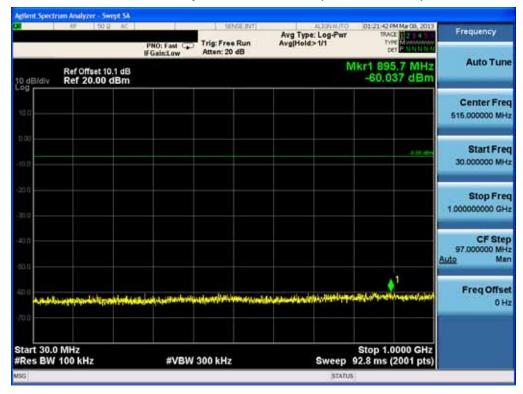
#### Conducted Spurious Emission (802.11b-CH6)



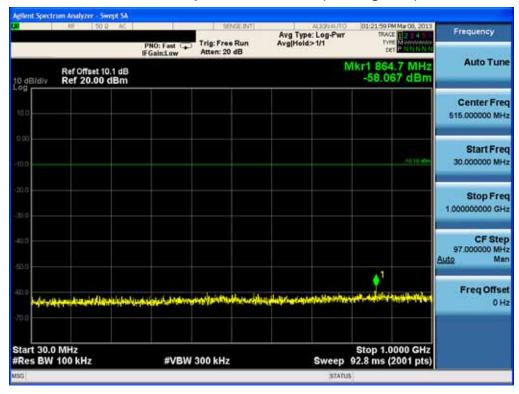
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
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### **Conducted Spurious Emission (802.11b-CH11)**



#### Conducted Spurious Emission (802.11g-CH1)

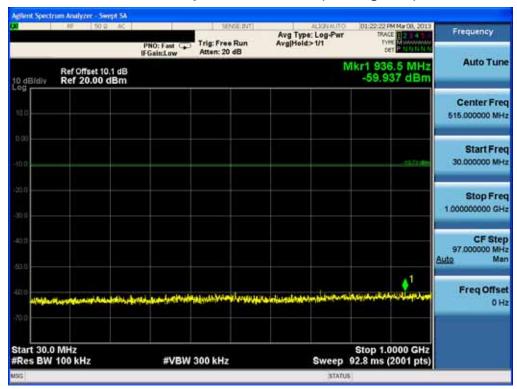


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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HCTR1303FR17	March 11, 2013	Cellular/PCS GSM/GPRS/EDGE, WCDMA/HSDPA/HSUPA, LTE Phone with Bluetooth/WLAN/NFC	ZNFP875H

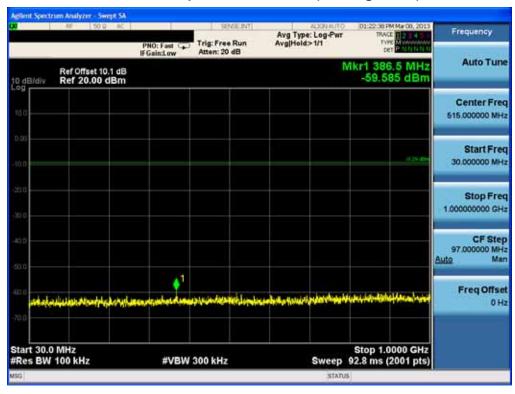
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### Conducted Spurious Emission (802.11g-CH6)



### Conducted Spurious Emission (802.11g-CH11)

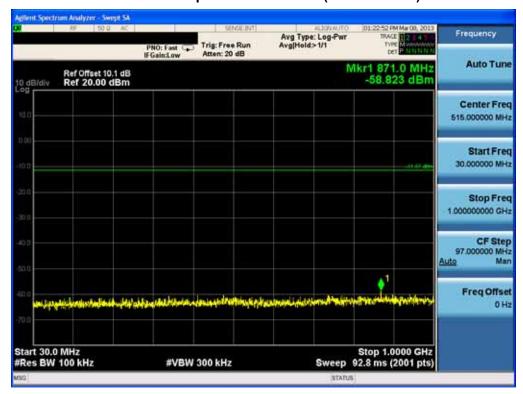


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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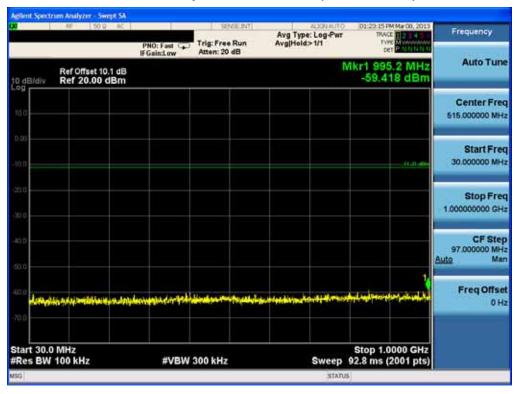
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#### **Conducted Spurious Emission (802.11n-CH1)**



### Conducted Spurious Emission (802.11n-CH6)

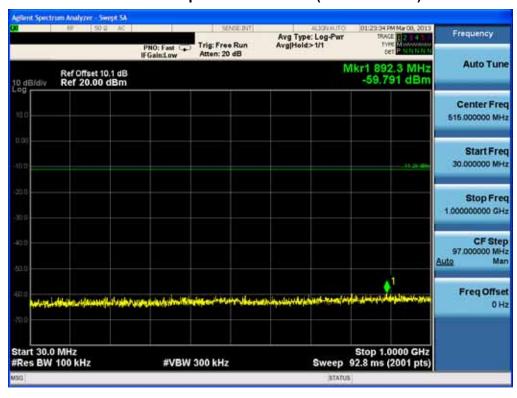


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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### **Conducted Spurious Emission (802.11n-CH11)**



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#### 1 GHz ~ 10 GHz

#### **Conducted Spurious Emission (802.11b-CH1)**



#### Conducted Spurious Emission (802.11b-CH6)



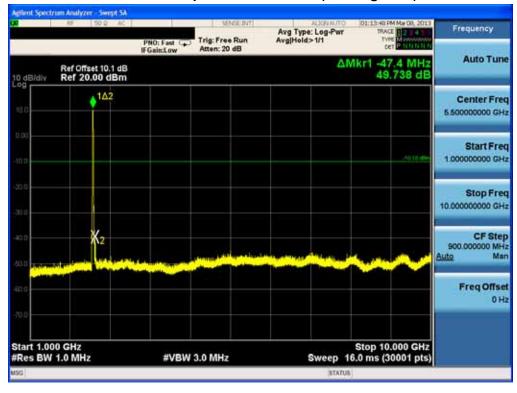
FCC PT.15.247 TEST REPORT		www.hct.co.kr	
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### **Conducted Spurious Emission (802.11b-CH11)**



#### Conducted Spurious Emission (802.11g-CH1)

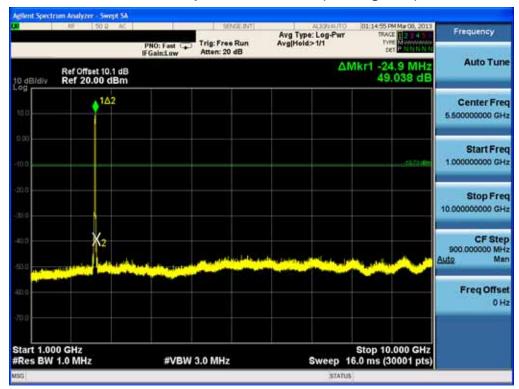


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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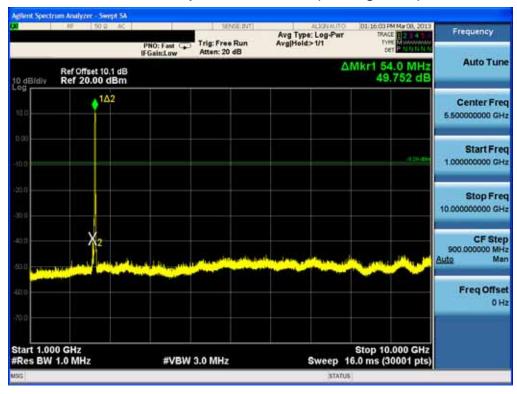
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### Conducted Spurious Emission (802.11g-CH6)



### Conducted Spurious Emission (802.11g-CH11)

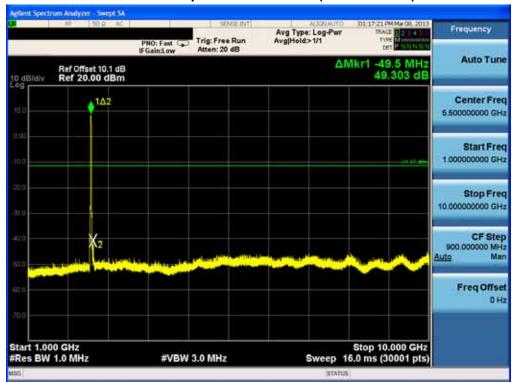


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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#### **Conducted Spurious Emission (802.11n-CH1)**



#### Conducted Spurious Emission (802.11n-CH6)

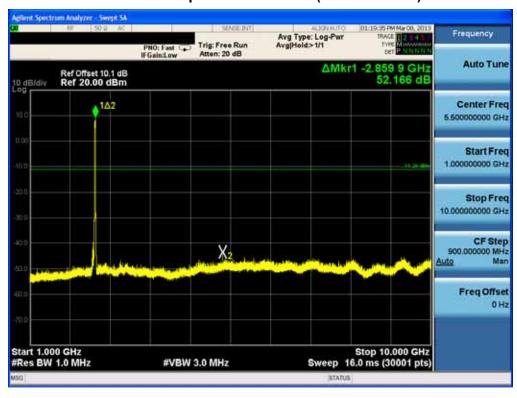


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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### **Conducted Spurious Emission (802.11n-CH11)**





#### 10 GHz ~ 25 GHz

#### **Conducted Spurious Emission (802.11b-CH1)**



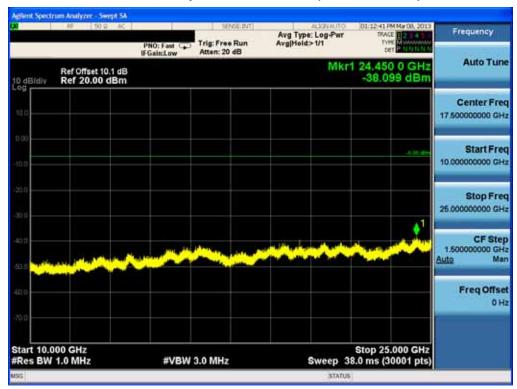
#### Conducted Spurious Emission (802.11b-CH6)



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### **Conducted Spurious Emission (802.11b-CH11)**



#### Conducted Spurious Emission (802.11g-CH1)

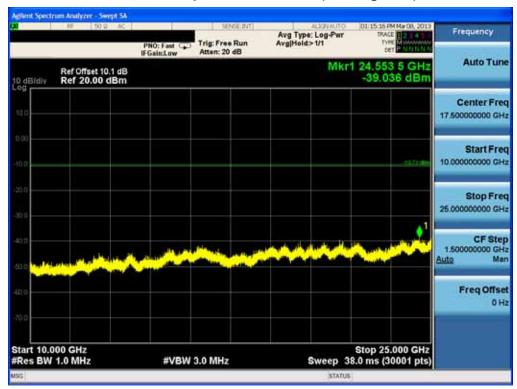


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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### Conducted Spurious Emission (802.11g-CH6)



### Conducted Spurious Emission (802.11g-CH11)



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#### **Conducted Spurious Emission (802.11n-CH1)**



#### Conducted Spurious Emission (802.11n-CH6)

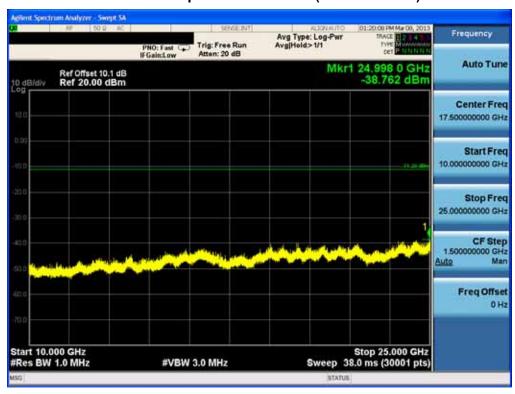


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### **Conducted Spurious Emission (802.11n-CH11)**



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### **8.5 RADIATED MEASUREMENT.**

### 8.5.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

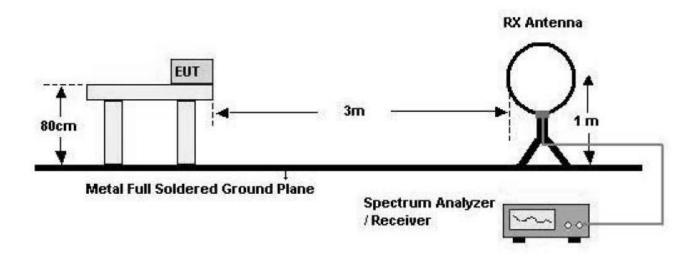
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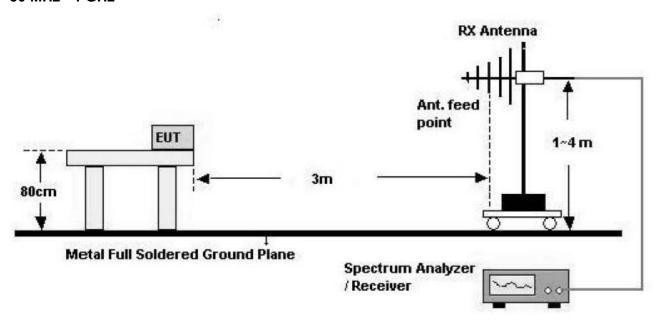


### **Test Configuration**

#### **Below 30 MHz**



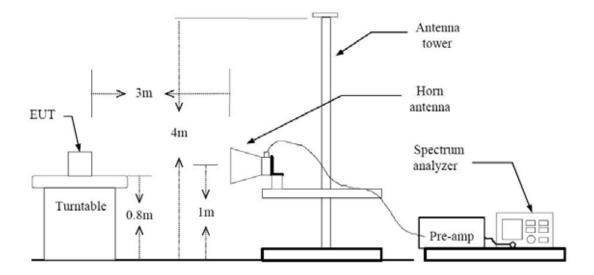
#### 30 MHz - 1 GHz



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#### **Above 1 GHz**



#### **TEST PROCEDURE**

- 1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

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#### **TEST RESULTS**

#### 9 kHz - 30MHz

**Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin	
MHz	dBμV	dB /m	dB	(H/V)	dBμV/m	dB <i>μ</i> V/m	dB	
No Critical peaks found								

#### Notes:

- 1. Measuring frequencies from 9 kHz to the 30MHz.
- 2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
- 5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.



#### **TEST RESULTS**

#### **Below 1 GHz**

**Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin	
MHz	$dB\mu V$	dB /m	dB	(H/V)	dB <i>μ</i> V/m	dB <i>μ</i> V/m	dB	
	No Critical peaks found							

#### Notes:

- 1. Measuring frequencies from 30 MHz to the 1 GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
- 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.



#### Above 1 GHz

Operation Mode: 802.11 b
Transfer Rate: 1 Mbps
Operating Frequency 2412
Channel No. 01 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4824	50.84	-0.79	V	50.05	74	23.95	PK
4824	38.18	-0.79	V	37.39	54	16.61	AV
7236	49.12	9.08	V	58.2	74	15.80	PK
7236	35.77	9.08	V	44.85	54	9.15	AV
4824	49.69	-0.79	Н	48.9	74	25.10	PK
4824	37.47	-0.79	Н	36.68	54	17.32	AV
7236	49.01	9.08	Н	58.09	74	15.91	PK
7236	35.79	9.08	Н	44.87	54	9.13	AV

#### Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. Spectrum setting:
  - a. Peak ( Procedure 4.2.3.2.2 in ANSI 63.10)

RBW = 1 MHz

VBW = 3 MHz

Detector = Peak

Trace = Max hold

Sweep = auto couple

b. Average ( Procedure 4.2.3.2.3 in ANSI 63.10 )

RBW = 1 MH

VBW = 10 Hz

 $\mathsf{Span} = \mathsf{Zero}$ 

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Detector Mode = Peak

Trace = Max hold

- 6. We have done 802.11b/g/n mode test. Worst case of EUT is 1 Mbps in 802.11b.
- 7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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Operation Mode: 802.11 b

Transfer Rate: 1 Mbps

Operating Frequency 2437

Channel No. 06 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4874	49.24	-0.37	V	48.87	74	25.13	PK
4874	36.79	-0.37	V	36.42	54	17.58	AV
7311	48.23	8.64	V	56.87	74	17.13	PK
7311	34.91	8.64	V	43.55	54	10.45	AV
4874	49.97	-0.37	Н	49.60	74	24.40	PK
4874	36.35	-0.37	Н	35.98	54	18.02	AV
7311	48.66	8.64	Н	57.30	74	16.70	PK
7311	34.93	8.64	Н	43.57	54	10.43	AV

#### Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. Spectrum setting:
- a. Peak ( Procedure 4.2.3.2.2 in ANSI 63.10)

RBW = 1 MHz

VBW = 3 MHz

Detector = Peak

Trace = Max hold

Sweep = auto couple

b. Average ( Procedure 4.2.3.2.3 in ANSI 63.10 )

RBW = 1 MH

VBW = 10 Hz

Span = Zero

Detector Mode = Peak

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Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1303FR17	March 11, 2013	Cellular/PCS GSM/GPRS/EDGE, WCDMA/HSDPA/HSUPA, LTE Phone with Bluetooth/WLAN/NFC	ZNFP875H



Trace = Max hold

- 6. We have done 802.11b/g/n mode test. Worst case of EUT is 1 Mbps in 802.11b.
- 7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
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Operation Mode: 802.11 b

Transfer Rate: 1 Mbps

Operating Frequency 2462

Channel No. 11 Ch

Frequency	Reading	AN.+CL-AMP G	ANT. POL	Total	Limit	Margin	
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4924	49.57	-0.15	V	49.42	74	24.58	PK
4924	36.49	-0.15	V	36.34	54	17.66	AV
7386	49.01	9.06	V	58.07	74	15.93	PK
7386	35.26	9.06	V	44.32	54	9.68	AV
4924	49.18	-0.15	Н	49.03	74	24.97	PK
4924	36.21	-0.15	Н	36.06	54	17.94	AV
7386	48.96	9.06	Н	58.02	74	15.98	PK
7386	35.26	9.06	Н	44.32	54	9.68	AV

#### Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Total = Reading Value + Antenna Factor + Cable Loss Amp Gain
- 5. Spectrum setting:
  - a. Peak ( Procedure 4.2.3.2.2 in ANSI 63.10)

RBW = 1 MHz

VBW = 3 MHz

Detector = Peak

Trace = Max hold

Sweep = auto couple

b. Average ( Procedure 4.2.3.2.3 in ANSI 63.10 )

RBW = 1 MH

VBW = 10 Hz

Span = Zero

Detector Mode = Peak

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Test Report No.	Date of Issue:	EUT Type:	FCC ID:		
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Trace = Max hold.

- 6. We have done 802.11b/g/n mode test. Worst case of EUT is 1 Mbps in 802.11b.
- 7. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC PT TEST R			www.hct.co.kr	
Test Re	port No.	Date of Issue:	EUT Type:	FCC ID:
HCTR13	803FR17	March 11, 2013	Cellular/PCS GSM/GPRS/EDGE, WCDMA/HSDPA/HSUPA, LTE Phone with Bluetooth/WLAN/NFC	ZNFP875H



#### 8.5.2 RADIATED RESTRICTED BAND EDGES

#### Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

Operation Mode: 802.11g

Transfer Rate: 6 Mbps

Operating Frequency 2412 MHz, 2462 MHz

Channel No. 01 Ch, 11 Ch

Frequency	Reading	AN.+CL	ANT. POL	Total	Limit	Margin	
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
2390.0	33.59	33.90	Н	67.49	74	6.51	PK
2390.0	15.61	33.90	Н	49.51	54	4.49	AV
2390.0	27.75	33.90	V	61.65	74	12.35	PK
2390.0	12.62	33.90	V	46.52	54	7.48	AV
2483.5	36.96	33.99	Н	70.95	74	3.05	PK
2483.5	15.67	33.99	Н	49.66	54	4.34	AV
2483.5	34.36	33.99	V	68.35	74	5.65	PK
2483.5	13.64	33.99	V	47.63	54	6.37	AV

#### Notes:

- 1. Total = Reading Value + Antenna Factor + Cable Loss
- 2. Spectrum setting:
  - a. Peak (Procedure 4.2.3.2.2 in ANSI 63.10)

RBW = 1 MHz

VBW = 3 MHz

Detector = Peak

Trace = Max hold

Sweep = auto couple

b. Average ( Procedure 4.2.3.2.3 in ANSI 63.10 )

RBW = 1 MH

VBW = 10 Hz

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Span = Zero

Detector Mode = Peak

Trace = Max hold

- 3. We have done 802.11b/g/n mode test. . Worst case of EUT is 6 Mbps in 802.11g.
- 4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

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#### 8.6 POWERLINE CONDUCTED EMISSIONS

#### Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Francisco Panas (MIII)	Limits (dBμV)			
Frequency Range (MHz)	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

#### **Test Configuration**

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

#### **TEST PROCEDURE**

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.
- 5. We are performed the AC Power Line Conducted Emission test for 54 Mbps, Ch.1 and 802.11g. Because 802.11g mode is worst case.



#### **RESULT PLOTS**

#### **Conducted Emissions (Line 1)**

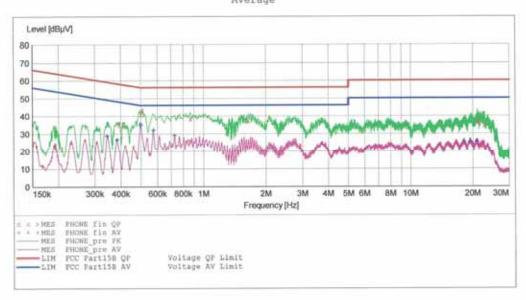
#### HCT

#### EMC

LG-P875h EUT: Manufacturer: LG Operating Condition: WLAN MODE Test Site: SHIELD ROOM Operator: Test Specification: FCC PART 15 B

Comment:

SCAN TABLE: "FCC PART 15 B(H)"
Short Description: FCC PART 15 CLASS B
Start Stop Step Detector Meas. Detector Meas. IF Time Bandw. MaxPeak 10.0 ms 9 kHz Stop Transducer Frequency Frequency Width 150.0 kHz 500.0 kHz 1.0 kHz Bandw. None Average 10.0 ms 9 kHz 500.0 kHz 5.0 MHz 4.0 kHz MaxPeak None Average 10.0 ms 9 kHz 5.0 MHz 30.0 MHz 4.0 kHz None MaxPeak Average



#### MEASUREMENT RESULT: "PHONE fin QP"

					PM	3/1/2013 5:06
PE	Line	Margin dB	Limit dBµV	Transd dB	Level dBµV	Frequency MHz
		22.9	58	9.8	35.20	0.392010
	3777	23.2	58	9.8	34.40	0.411010
		14.9	56	9.8	41.10	0.499010
		13.3	56	9.8	42.70	0.508000
		17.6	56	9.8	38.40	0.868000
		18.9	5.6	9.9	37.10	1.644000
		23.5	60	11.8	36.50	21.016000
		23.7	60	11.8	36.30	21.228000
		25.5	60	11.9	34.50	22.740000

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FCC PT.15.247 TEST REPORT		www.hct.co.kr	
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### MEASUREMENT RESULT: "PHONE\_fin AV"

3/1/2013 5	:06PM					
Frequenc MH		Transd dB	Limit dBµV	Margin dB	Line	PE
0.34401	0 28.80	9.7	49	20.3		
0.38401	0 26.70	9.8	48	21.5		
0.49801	0 35.50	9.8	46	10.5		
0.50000	0 34.60	9.8	46	11.4		
0.57600	0 32.00	9.8	4.6	14.0		
0.72800	0 29.00	9.8	4.6	17.0		
18.14800	0 25.00	11.5	50	25.0		
19.39600	0 25.20	11.7	50	24.8		
20.84400	0 25.30	11.8	50	24.7		

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FCC PT.15.247 TEST REPORT		www.hct.co.kr	
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### **Conducted Emissions (Line 2)**

#### HCT

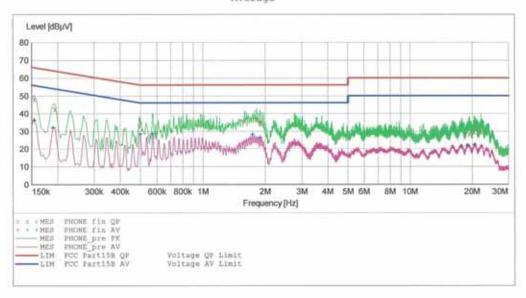
#### EMC

EUT: LG-P875h Manufacturer: Operating Condition: WLAN MODE Test Site: SHIELD ROOM Operator: JS LEE

Test Specification: FCC PART 15 CLASS B Comment: N

#### SCAN TABLE: "FCC PART 15 B(N)"

Short Desc	ription:		FCC PART 15	CLASS B		
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	500.0 kHz	4.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	4.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	4.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



#### MEASUREMENT RESULT: "PHONE fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.154010	48.20	10.0	66	17.6		
0.194010	42.40	9.9	64	21.4		
0.494010	33.00	10.0	56	23.1	40.00	
1.588000	35.80	10.1	56	20.2		
1.816000	36.70	10.1	56	19.3		
1.888000	34.90	10.1	56	21.1		
19.348000	28.40	12.0	60	31.6		
20.432000	29.60	12.1	60	30.4		
21.992000	29.20	12.2	60	30.8		

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### MEASUREMENT RESULT: "PHONE\_fin AV"

3/1/2013 4:	42PM					
Frequency MHz		Transd dB	Limit dBµV	Margin dB	Line	PE
0.154010	36.30	10.0	56	19.5		
0.190010	31.90	9.9	54	22.2		
0.500000	28.40	10.0	46	17.6		
0.572000	28.60	10.0	4.6	17.4		
1.736000	28.10	10.1	46	17.9		
1.888000	26.30	10.1	46	19.7		
17.720000	21.20	11.7	50	28.8		
18.904000	22.00	11.9	50	28.0		
20.556000	22.20	12.1	50	27.8		

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FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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## 9. LIST OF TEST EQUIPMENT

		Calibration	Calibration	Serial No.	
Manufacturer	Model / Equipment	Interval	Due		
Rohde & Schwarz	ENV216/ LISN	Annual	02/06/2014	100073	
Schwarzbeck	VULB 9168/ TRILOG Antenna	Biennial	06/17/2013	255	
Rohde & Schwarz	ESI 40 / EMI TEST RECEIVER	Annual	05/03/2013	831564103	
Agilent	E4440A/ Spectrum Analyzer	Annual	05/02/2013	US45303008	
Agilent	N9020A/ SIGNAL ANALYZER	Annual	07/31/2013	MY51110020	
HD	MA240/ Antenna Position Tower	N/A	N/A	556	
EMCO	1050/ Turn Table	N/A	N/A	114	
HD GmbH	HD 100/ Controller	N/A	N/A	13	
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12	
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	Annual	09/11/2013	10094	
MITEQ	AMF-6B-180265-35-10P / POWER AMP	Annual	04/16/2013	667624	
CERNEX	CBL26405040 / POWER AMP	Annual	04/16/2013	19660	
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	10/17/2013	937	
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	Biennial	10/30/2014	BBHA9170124	
Rohde & Schwarz	FSP / Spectrum Analyzer	Annual	02/08/2014	839117/011	
Agilent	E4416A /Power Meter	Annual	11/07/2013	GB41291412	
Agilent	E9327A /POWER SENSOR	Annual	05/02/2013	MY4442009	
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	Annual	05/02/2013	1	
Wainwright Instrument	WHNX6.0/26.5G-6SS / High Pass Filter	Annual	05/02/2013	1	
Wainwright Instrument	WHNX7.0/18G-8SS / High Pass Filter	Annual	05/02/2013	29	
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	Annual	05/02/2013	1	
Hewlett Packard	11636B/Power Divider	Annual	11/07/2013	11377	
Hewlett Packard	11667B / Power Splitter	Annual	06/05/2013	05001	
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	11/07/2013	3110117	
ITECH	IT6720 / DC POWER SUPPLY	Annual	11/07/2013	010002156287001199	
TESCOM	TC-3000C / BLUETOOTH TESTER	Annual	11/07/2013	3000C000276	
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	05/02/2013	100422	
EMCO	6502.LOOP ANTENNA	Biennial	01/11/2014	9009-2536	
MITEQ	AMF-6D-001180-35-20P/ POWER AMP	Annual	07/30/2013	990893	
Agilent	8493C / Attenuator(10 dB)	Annual	07/30/2013	76649	
WEINSCHEL	2-3 / Attenuator(3 dB)	Annual	11/07/2013	BR0617	
CERNEX	CBLU1183540 / POWER AMP	Annual	07/27/2013	21691	

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