FCC 47 CFR PART 22H and 24E

Product Type	:	Smartphone
Applicant	:	HTC Corporation
Address		No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
Trade Name	:	HTC
Model Number	:	PH85110
Test Specification	:	FCC 47 CFR PART 22H: Oct, 2009 FCC 47 CFR PART 24E: Oct, 2009 ANSI/TIA-603-C-2004
Issue Date	:	Aug. 01, 2011

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
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Taiwan Accreditation Foundation accreditation number: 1330

Revision History

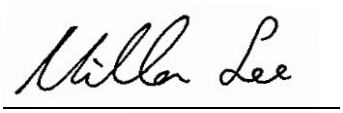
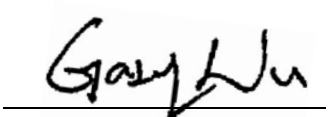
Rev.	Issue Date	Revisions	Revised By
00	Aug. 01, 2011	Initial Issue	

Verification of Compliance

Issued Date: 2011/08/01

Product Type	:	Smartphone
Applicant	:	HTC Corporation
Address	:	No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan
Trade Name	:	HTC
Model Number	:	PH85110
FCC ID	:	NM8PH85110
EUT Rated Voltage	:	DC 5.0V, 1.0A
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 22H: Oct, 2009 FCC 47 CFR PART 24E: Oct, 2009 ANSI/TIA-603-C-2004
Test Result	:	Complied
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City Taoyuan County 334, Taiwan R.O.C. Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 22H, Part 24E.
The test results of this report relate only to the tested sample identified in this report.

Approved By	:		Reviewed By	:	
(Manager)		(Miller Lee)	(Testing Engineer)		(Gary Wu)

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1 General Information

1.1. EUT Description

Applicant		HTC Corporation			
Applicant Address		No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan			
Manufacturer		HTC Corporation			
Manufacturer Address		No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan			
Product Type		Smartphone			
Trade Name		HTC			
Model Number		PH85110			
FCC ID		NM8PH85110			
Mode	GSM/GPRS/ EGPRS	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		850	824.2 ~ 848.8	869.2 ~ 893.8	GMSK/8PSK
		1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8	GMSK/8PSK
	WCDMA/ HSDPA/ HSUPA/ HSPA+	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		II	1852.4 ~ 1907.6	1932.4 ~ 1987.6	QPSK
		V	826.4 ~ 846.6	871.4 ~ 891.6	QPSK
Channel Control		Auto			
Type of Antenna		PIFA Antenna			
Antenna Gain (dBi)		GSM/GPRS/EGPRS 850: -2.1 dBi GSM/GPRS/EGPRS 1900: 1.4 dBi WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: 1.4 dBi WCDMA/ HSDPA/ HSUPA/HSPA+ Band V: -2.1 dBi			
Max. RF Output power		GSM/GPRS 850: 33.70 dBm / 2.344 W, EGPRS 850: 30.10 dBm / 1.023 W GSM/GPRS 1900: 30.40 dBm / 1.096 W, EGPRS 1900: 28.60 dBm / 0.724 W WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: 25.84 dBm / 0.384 W WCDMA/ HSDPA/ HSUPA/HSPA+ Band V: 27.78 dBm / 0.600 W			
Max. ERP/EIRP		GSM/GPRS 850: 34.98 dBm / 3.148 W, EGPRS 850: 27.41 dBm / 0.551 W GSM/GPRS 1900: 25.87 dBm / 0.386 W, EGPRS 1900: 24.67 dBm / 0.293 W WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: 23.76 dBm / 0.238 W WCDMA/ HSDPA/ HSUPA /HSPA+ Band V: 23.15 dBm / 0.207 W			
Emission Designator		GSM/GPRS 850: 245KGXW, EGPRS 850: 248KG7W GSM/GPRS 1900: 247KGXW, EGPRS 1900: 247KG7W WCDMA/ HSDPA/ HSUPA/HSPA+ Band II: 4M13F9W WCDMA/ HSDPA/ HSUPA/HSPA+ Band V: 4M14F9W			

1.2. Mode of Operation

ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: GSM 850 Link
Mode 2: GSM 1900 Link
Mode 3: WCDMA Band II Link
Mode 4: HSDPA Band V Link
Mode 5: EGPRS 850 Link
Mode 6: EGPRS 1900 Link

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Tested System Details

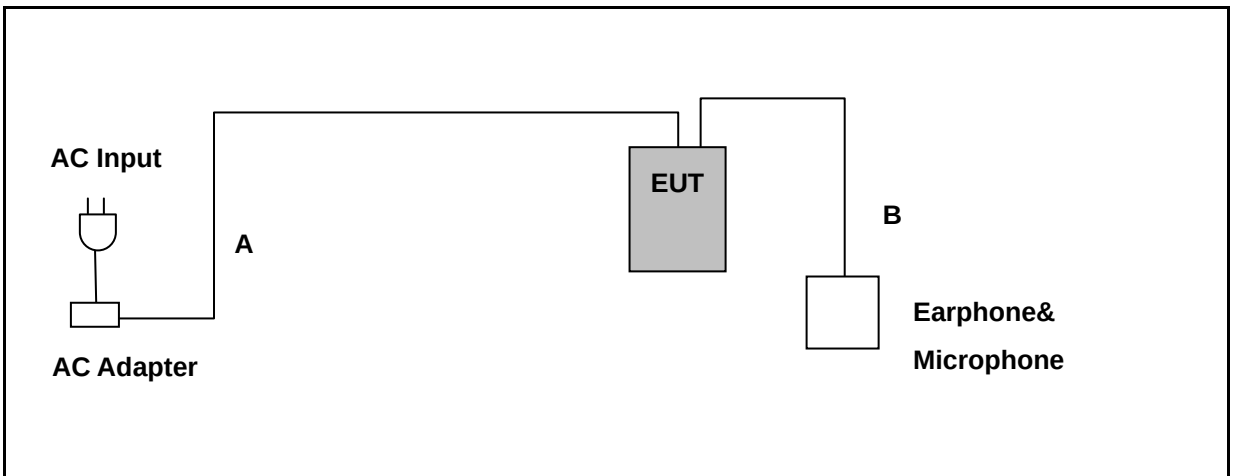
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model Number	Serial Number	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	109369	N/A

1.3. EUT Exercise Software

1.	Setup the EUT and Base Station (CMU200) as shown on 1.4.
2.	Turn on the power of all equipment.

1.4. Configuration of Test System Details



Signal Cable Type		Signal Cable Description
A	USB Cable	Shielded, 1.2 m
B	Earphone&Microphone Cable	Non-Shielded, 1.2 m

1.5. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

1.6. Summary of Test Result

Description	FCC Rule	IC Rule	Limit	Result
Conducted Output Power	§2.1046	N/A	N/A	Pass
Effective Radiated Power	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	< 7 Watts for FCC (<6.3 Watts for IC)	Pass
Equivalent Isotropic Radiated Power	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	< 2 Watts	Pass
Occupied Bandwidth	§2.1049 §22.917(a) §24.238(a)	N/A	N/A	Pass
Band Edge Measurement	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1)RSS-133 (6.5.1)	< $43+10\log_{10}$(P[Watts])	Pass
Conducted Emission	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	< $43+10\log_{10}$(P[Watts])	Pass
Field Strength of Spurious Radiation	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	< $43+10\log_{10}$(P[Watts])	Pass
Frequency Stability for Temperature & Voltage	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	< 2.5 ppm	Pass

2 RF Output Power Test

2.1. Limit

N/A

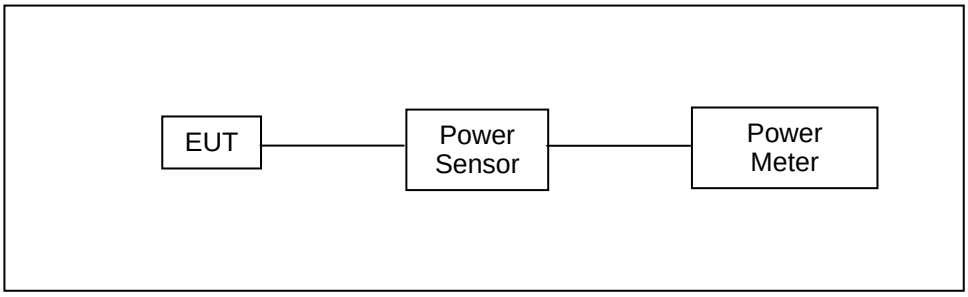
2.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Single Channel PK Power Sensor	Agilent	N1911A	MY45101619	07/19/2010	(2)
Wideband Power Meter	Agilent	N1921A	MY45241957	07/19/2010	(2)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

2.3. Test Setup



2.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

1. The transmitter output was connected to power meter and base station through power divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Set base station for EUT at WCDMA Band V and WCDMA Band II, power level was set to maximum.
4. Select lowest, middle, and highest channels for each band.

2.5. Uncertainty

The measurement uncertainty is defined as for RF output power measurement is 1.2 dB.

2.6. Test Result

Model Number	PH85110					
Test Item	RF Output Power					
Date of Test	07/15/2011			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 850	-----	824.2	33.10	2.042	33.50	2.239
		836.4	33.20	2.089	33.60	2.291
		848.8	33.30	2.138	**33.70**	**2.344**
GRRS 850	4Down1Up	824.2	33.30	2.138	33.60	2.291
		836.4	33.30	2.138	33.60	2.291
		848.8	33.40	2.188	33.60	2.291
	3Down2Up	824.2	32.80	1.905	33.10	2.042
		836.4	32.30	1.698	32.70	1.862
		848.8	32.40	1.738	32.80	1.905
EGPRS 850	4Down1Up	824.2	26.90	0.490	**30.10**	**1.023**
		836.4	26.90	0.490	**30.10**	**1.023**
		848.8	26.90	0.490	**30.10**	**1.023**
	3Down2Up	824.2	25.20	0.331	28.50	0.708
		836.4	25.10	0.324	28.40	0.692
		848.8	25.10	0.324	28.40	0.692

Note: The peak power testing result was used peak detector.

Model Number	PH85110					
Test Item	RF Output Power					
Date of Test	07/15/2011			Test Site	TE02	
Bands	Data Rate	Frequency (MHz)	Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
GSM 1900	-----	1850.2	30.10	1.023	30.30	1.072
		1880.0	30.20	1.047	**30.40**	**1.096**
		1909.8	30.25	1.059	**30.40**	**1.096**
GRRS 1900	4Down1Up	1850.2	29.80	0.955	30.00	1.000
		1909.8	29.70	0.933	29.90	0.977
		1909.8	29.70	0.933	29.90	0.977
	3Down2Up	1850.2	29.10	0.813	29.30	0.851
		1909.8	29.00	0.794	29.20	0.832
		1909.8	28.80	0.759	29.10	0.813
EGPRS 1900	4Down1Up	1850.2	25.30	0.339	28.50	0.708
		1880.0	25.40	0.347	**28.60**	**0.724**
		1909.8	25.30	0.339	**28.60**	**0.724**
	3Down2Up	1850.2	24.20	0.263	27.30	0.537
		1909.8	24.10	0.257	27.30	0.537
		1909.8	24.10	0.257	27.30	0.537

Note: The peak power testing result was used peak detector.

Model Number	PH85110					
Test Item	RF Output Power					
Date of Test	07/15/2011			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band II	-----	1852.4	22.55	0.180	25.58	0.361
		1880.0	22.49	0.177	25.77	0.378
		1907.6	22.70	0.186	**25.84**	**0.384**
HSDPA Band II	1	1852.4	21.51	0.142	24.86	0.306
		1880.0	21.45	0.140	24.88	0.308
		1907.6	21.61	0.145	24.80	0.302
	2	1852.4	21.44	0.139	25.06	0.321
		1880.0	21.41	0.138	25.01	0.317
		1907.6	21.49	0.141	25.16	0.328
	3	1852.4	20.19	0.104	24.27	0.267
		1880.0	20.03	0.101	24.17	0.261
		1907.6	20.40	0.110	24.31	0.270
	4	1852.4	20.30	0.107	24.21	0.264
		1880.0	19.78	0.095	24.01	0.252
		1907.6	20.01	0.100	24.11	0.258
HSUPA Band II	1	1852.4	20.49	0.112	21.05	0.127
		1880.0	19.66	0.092	20.07	0.102
		1907.6	19.97	0.099	20.39	0.109
	2	1852.4	17.62	0.058	17.92	0.062
		1880.0	17.73	0.059	18.30	0.068
		1907.6	17.64	0.058	17.94	0.062
	3	1852.4	20.02	0.100	20.23	0.105
		1880.0	20.64	0.116	20.12	0.103
		1907.6	20.48	0.112	20.30	0.107
	4	1852.4	20.22	0.105	20.05	0.101
		1880.0	19.84	0.096	19.61	0.091
		1907.6	19.83	0.096	19.60	0.091
	5	1852.4	19.80	0.095	20.01	0.100
		1880.0	19.78	0.095	19.72	0.094
		1907.6	19.75	0.094	19.65	0.092
HSPA+ Band II (QPSK)	1	1852.4	20.32	0.108	21.00	0.126
		1880.0	19.55	0.090	19.94	0.099
		1907.6	19.82	0.096	20.21	0.105
	2	1852.4	17.51	0.056	17.80	0.060
		1880.0	17.69	0.059	18.18	0.066
		1907.6	17.60	0.058	17.88	0.061
	3	1852.4	20.00	0.100	20.13	0.103
		1880.0	20.55	0.114	20.06	0.101
		1907.6	20.38	0.109	20.22	0.105
	4	1852.4	20.19	0.104	20.00	0.100
		1880.0	19.72	0.094	19.49	0.089
		1907.6	19.69	0.093	19.50	0.089
	5	1852.4	19.72	0.094	19.87	0.097
		1880.0	19.70	0.093	19.63	0.092
		1907.6	19.60	0.091	19.52	0.090

Note: The peak power testing result was used peak detector.

Model Number	PH85110					
Test Item	RF Output Power					
Date of Test	07/15/2011			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band V	-----	826.4	23.19	0.208	26.52	0.449
		836.6	22.84	0.192	26.26	0.423
		846.4	22.89	0.195	26.00	0.398
HSDPA Band V	1	826.4	23.17	0.207	26.51	0.448
		836.6	22.81	0.191	26.21	0.418
		846.4	22.86	0.193	26.07	0.405
	2	826.4	23.01	0.200	26.64	0.461
		836.6	22.64	0.184	26.34	0.431
		846.4	22.79	0.190	26.21	0.418
	3	826.4	20.51	0.112	25.09	0.323
		836.6	20.58	0.114	24.65	0.292
		846.4	20.52	0.113	**27.78**	**0.600**
	4	826.4	20.35	0.108	24.92	0.310
		836.6	20.22	0.105	24.55	0.285
		846.4	20.21	0.105	24.67	0.293
HSUPA Band V	1	826.4	22.50	0.178	25.84	0.384
		836.6	21.96	0.157	25.36	0.344
		846.4	21.65	0.146	24.86	0.306
	2	826.4	18.90	0.078	22.24	0.167
		836.6	18.40	0.069	21.80	0.151
		846.4	18.80	0.076	22.01	0.159
	3	826.4	20.40	0.110	23.74	0.237
		836.6	20.30	0.107	23.70	0.234
		846.4	20.40	0.110	23.61	0.230
	4	826.4	20.70	0.117	24.04	0.254
		836.6	20.60	0.115	24.00	0.251
		846.4	20.30	0.107	23.51	0.224
	5	826.4	21.50	0.141	24.84	0.305
		836.6	20.40	0.110	23.80	0.240
		846.4	20.50	0.112	23.71	0.235
HSPA+ Band V (QPSK)	1	826.4	22.40	0.174	25.82	0.382
		836.6	21.85	0.153	25.22	0.333
		846.4	21.54	0.143	24.73	0.297
	2	826.4	18.82	0.076	22.16	0.164
		836.6	18.33	0.068	21.72	0.149
		846.4	18.70	0.074	21.86	0.153
	3	826.4	20.31	0.107	23.65	0.232
		836.6	20.18	0.104	23.60	0.229
		846.4	20.28	0.107	23.49	0.223
	4	826.4	20.61	0.115	23.92	0.247
		836.6	20.55	0.114	23.91	0.246
		846.4	20.30	0.107	23.31	0.214
	5	826.4	21.42	0.139	24.71	0.296
		836.6	20.29	0.107	23.69	0.234
		846.4	20.41	0.110	23.66	0.232

Note: The peak power testing result was used peak detector.

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

3.2. Test Instruments

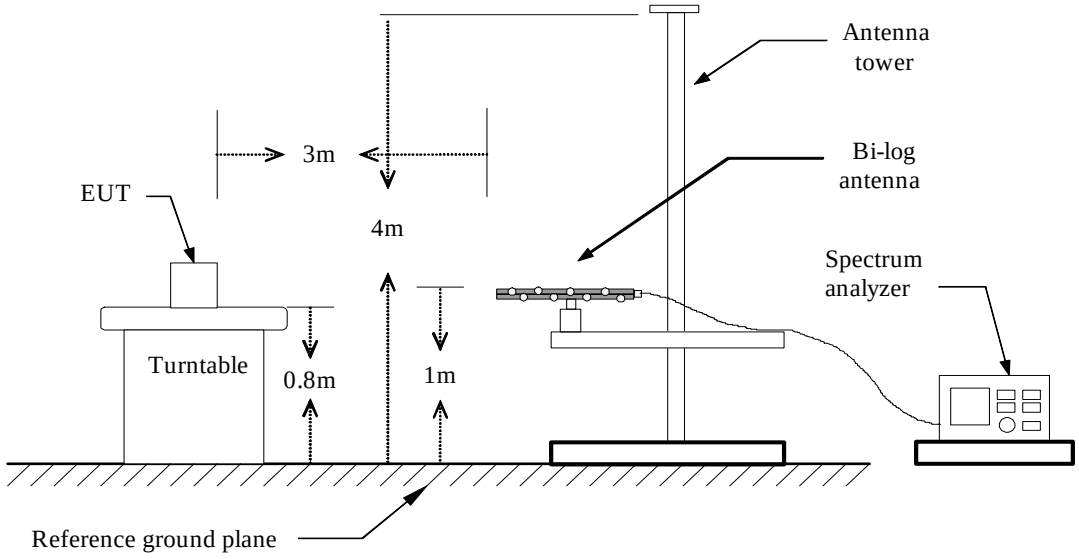
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/18/2011	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/18/2011	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/23/2011	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/23/2011	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/02/2010	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2011	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/28/2011	(1)
Test Site	ATL	TE01	888001	07/30/2010	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

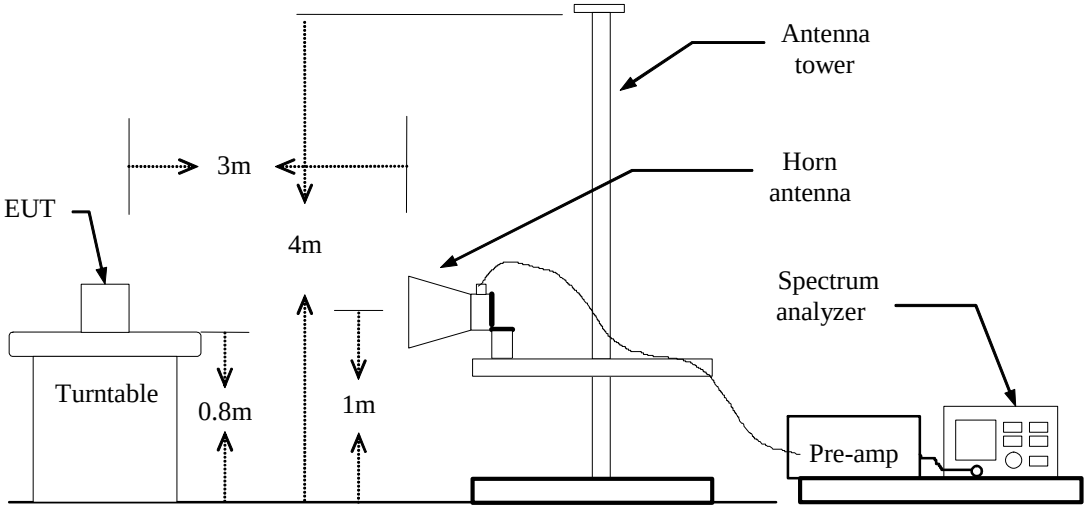
NOTE: N.C.R. = No Calibration Request.

3.3. Setup

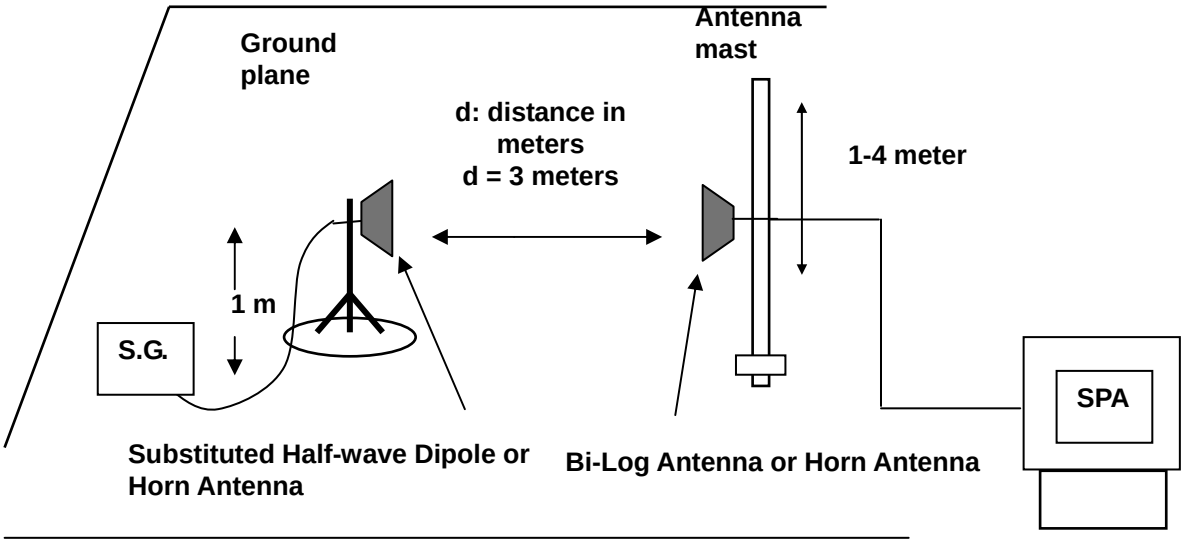
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



3.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

3.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

3.6. Test Result

Model Number	PH85110						
Test Item	ERP/EIRP						
Test Mode	Mode 1: GSM 850 Link						
Date of Test	07/04/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
GSM 850	824.2	H	23.02	11.96	**34.98**	**3.148**	< 7W
		V	20.73	11.30	32.03	1.596	< 7W
	836.4	H	22.56	12.07	34.63	2.904	< 7W
		V	20.75	11.34	32.09	1.618	< 7W
	848.8	H	20.30	12.50	32.80	1.905	< 7W
		V	20.29	11.46	31.75	1.496	< 7W
EGPRS 850	824.2	H	15.03	11.95	26.98	0.499	< 7W
		V	13.89	11.29	25.18	0.330	< 7W
	836.4	H	15.34	12.07	**27.41**	**0.551**	< 7W
		V	14.81	11.34	26.15	0.412	< 7W
	848.8	H	13.02	12.50	25.52	0.356	< 7W
		V	14.44	11.46	25.90	0.389	< 7W

Model Number	PH85110						
Test Item	ERP/EIRP						
Test Mode	Mode 2: GSM 1900 Link						
Date of Test	07/04/2011				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
GSM 1900	1850.20	H	15.23	10.42	25.65	0.367	< 2W
		V	17.61	8.26	**25.87**	**0.386**	< 2W
	1880.00	H	12.90	10.44	23.34	0.216	< 2W
		V	17.26	8.50	25.76	0.377	< 2W
	1909.80	H	14.25	10.43	24.68	0.294	< 2W
		V	16.86	8.72	25.58	0.361	< 2W
EGPRS 1900	1850.20	H	11.33	10.42	21.75	0.150	< 2W
		V	16.41	8.26	**24.67**	**0.293**	< 2W
	1880.00	H	8.64	10.44	19.08	0.081	< 2W
		V	14.82	8.50	23.32	0.215	< 2W
	1909.80	H	9.49	10.43	19.92	0.098	< 2W
		V	13.58	8.72	22.30	0.170	< 2W

Note: 1. ERP/EIRP = Read Level + Correction factor.

2. For WCDMA signals, a peak detector is used with RBW = VBW = 5MHz.

3. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW= 1 MHz.

Model Number	PH85110						
Test Item	ERP/EIRP						
Test Mode	Mode 3: WCDMA Band II Link						
Date of Test	07/04/2011			Test Site	TE01		
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
WCDMA Band II	1852.4	H	8.47	10.43	18.90	0.078	< 2W
		V	15.49	8.27	**23.76**	**0.238**	< 2W
	1880.0	H	6.73	10.43	17.16	0.052	< 2W
		V	10.01	8.48	18.49	0.071	< 2W
	1907.6	H	4.99	10.43	15.42	0.035	< 2W
		V	7.15	8.70	15.85	0.038	< 2W

Model Number	PH85110						
Test Item	ERP/EIRP						
Test Mode	Mode 4: HSDPA Band V Link						
Date of Test	07/04/2011			Test Site	TE01		
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
HSDPA Band V	826.4	H	-16.06	39.21	**23.15**	**0.207**	< 7W
		V	-16.34	38.54	22.20	0.166	< 7W
	836.4	H	-16.91	39.29	22.38	0.173	< 7W
		V	-17.36	38.56	21.20	0.132	< 7W
	846.4	H	-19.81	39.60	19.79	0.095	< 7W
		V	-21.10	38.64	17.54	0.057	< 7W

Note: 1. ERP/EIRP = Read Level + Correction factor.

2. For HSDPA signals, a peak detector is used with RBW = VBW = 5MHz.

3. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW= 1 MHz.

4 Occupied Bandwidth Test

4.1. Limit

The Occupied Bandwidth Limit:

N/A.

The Band Edge Limit:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

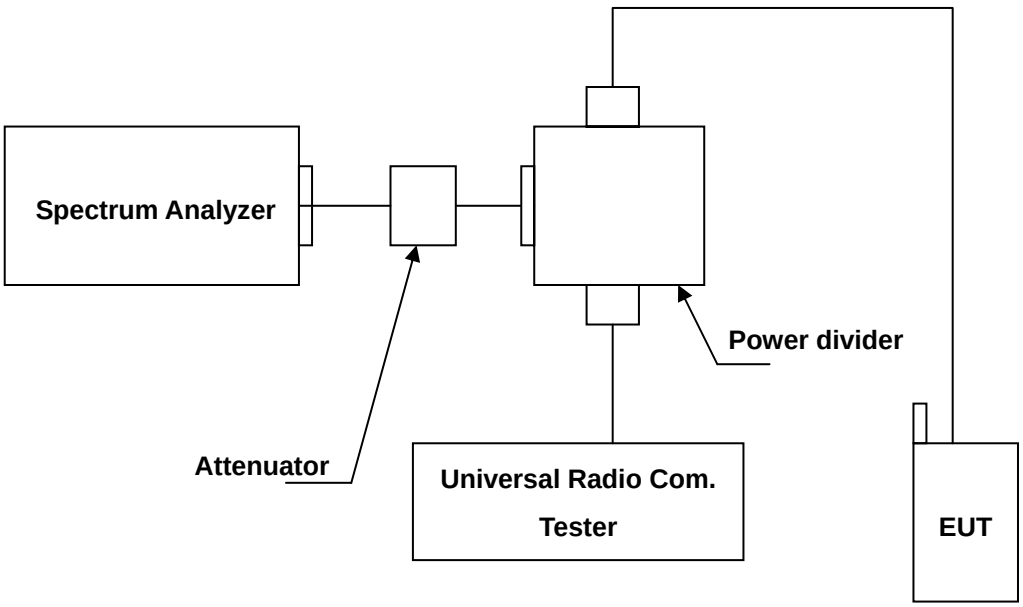
4.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2011	(1)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

4.3. Setup



4.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.
3. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
4. The band edge setting:
   a. RB=3 kHz; VB=3 kHz for GSM 850 and PCS 1900.
   b. RB=100 kHz; VB=100 kHz for HSDPA Band V and WCDMA Band II.

4.5. Uncertainty

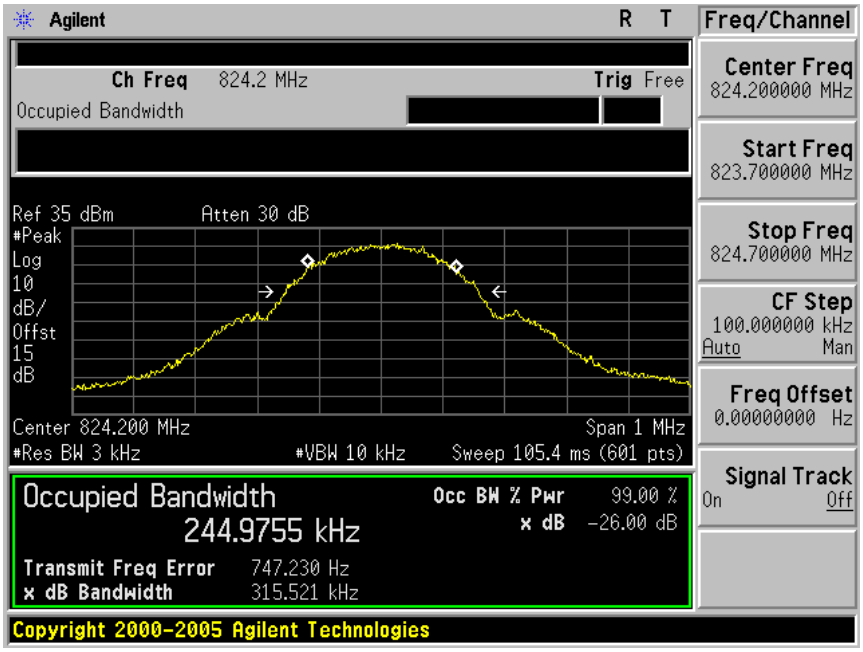
The measurement uncertainty is defined as ± 10Hz

4.6. Test Result

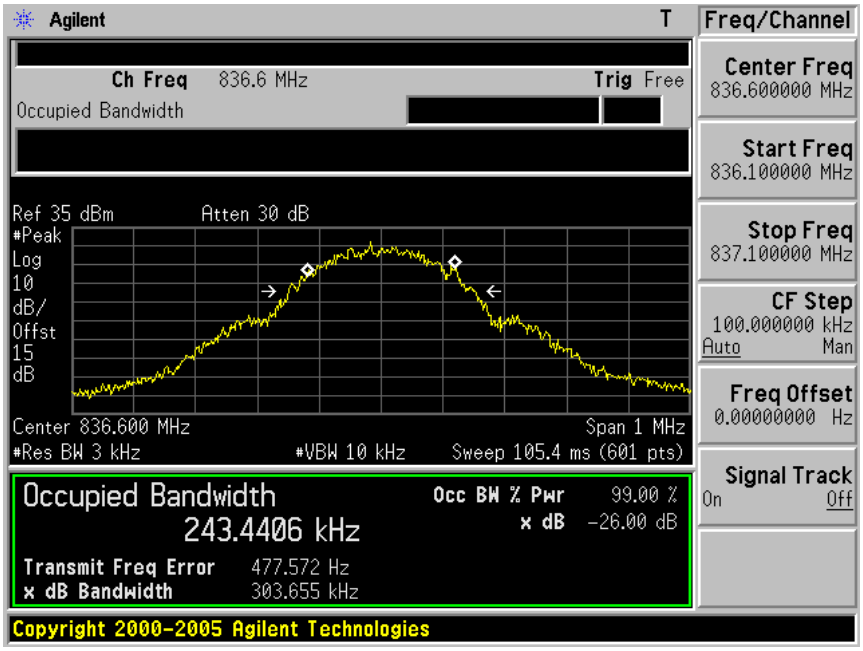
99% Occupied Bandwidth

Model Number	PH85110		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: GSM 850 Link		
Date of Test	06/27/2011	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	244.9755	RBW:3kHz , VBW:10kHz
190	836.4	243.4406	RBW:3kHz , VBW:10kHz
251	848.8	240.9565	RBW:3kHz , VBW:10kHz

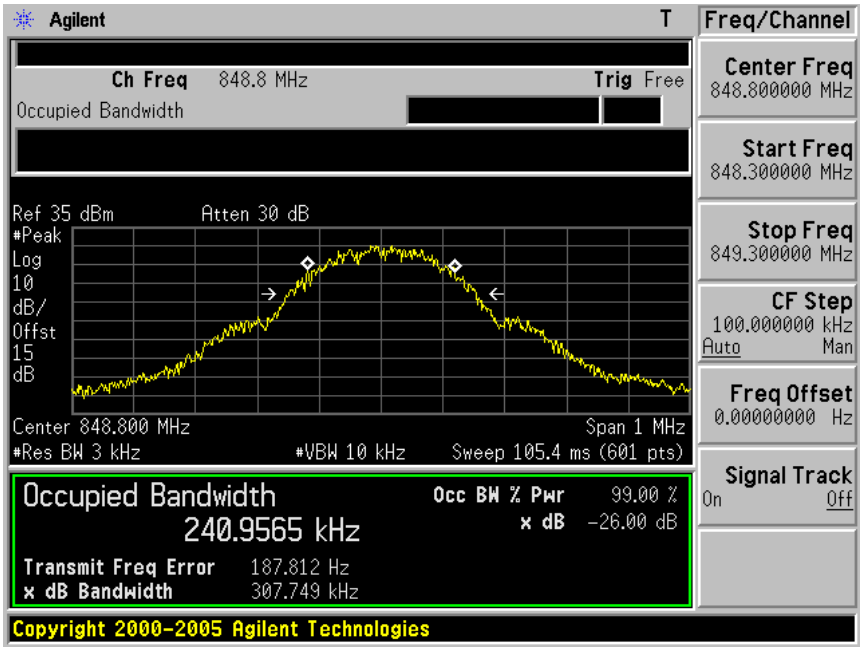
Channel 128



Channel 190

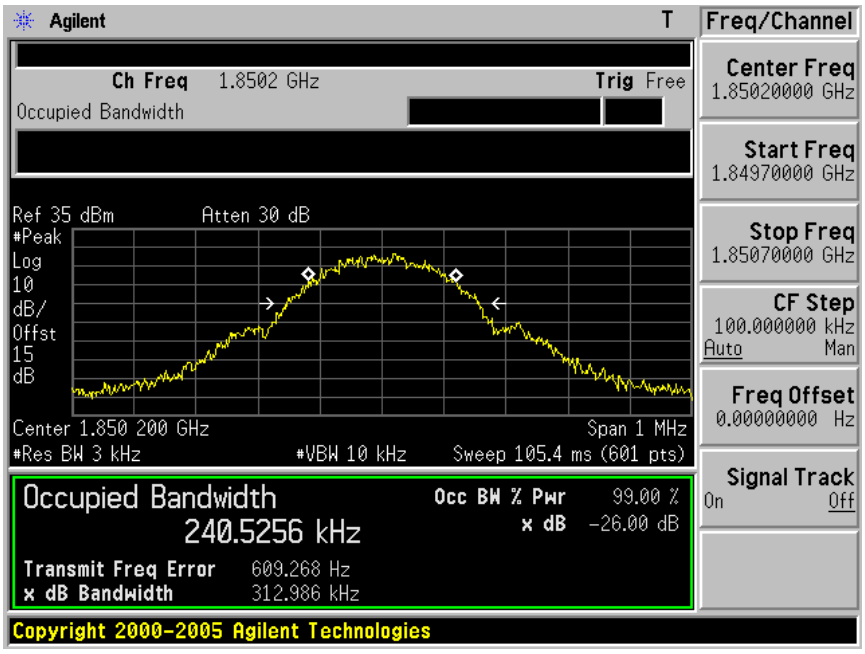


Channel 251

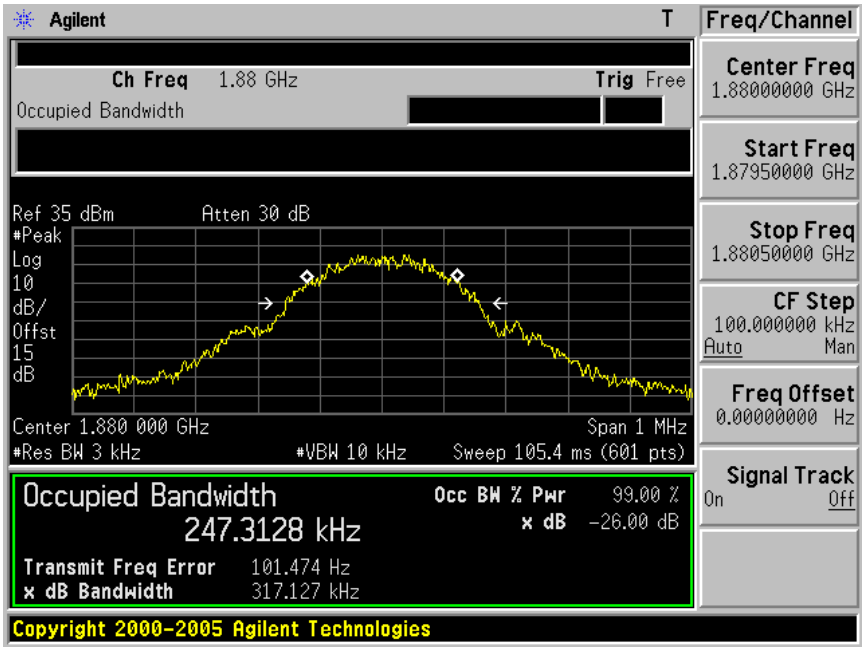


Model Number	PH85110			
Test Item	Occupied Bandwidth			
Test Mode	Mode 2: GSM 1900 Link			
Date of Test	06/27/2011		Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note	
512	1850.20	240.5256	RBW:3kHz , VBW:10kHz	
661	1880.00	247.3128	RBW:3kHz , VBW:10kHz	
810	1909.80	244.6056	RBW:3kHz , VBW:10kHz	

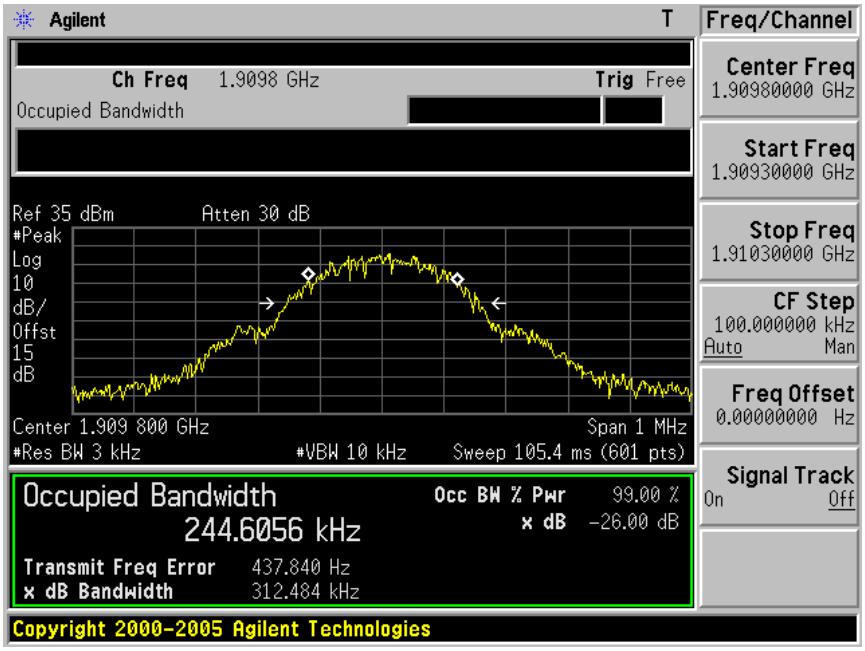
Channel 512



Channel 661



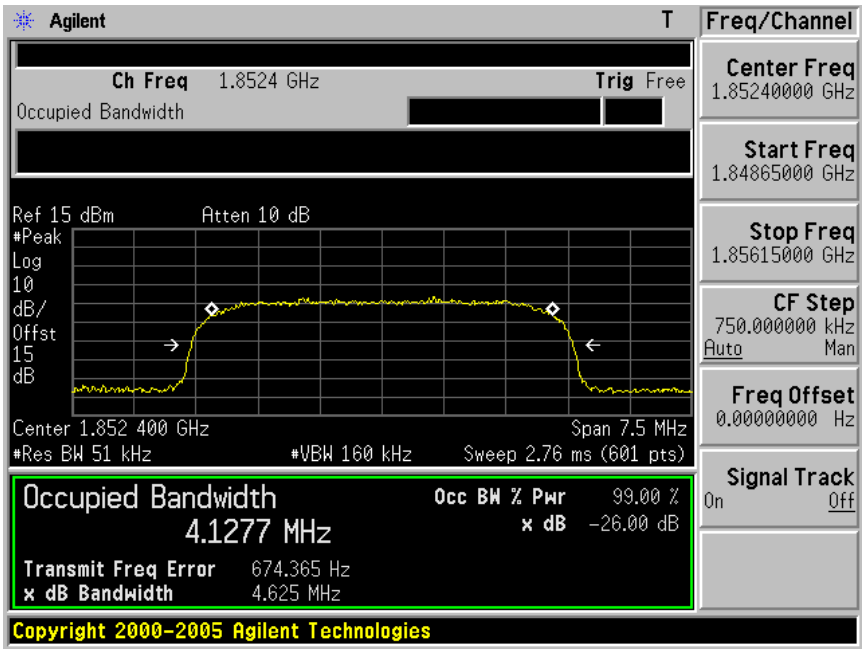
Channel 810



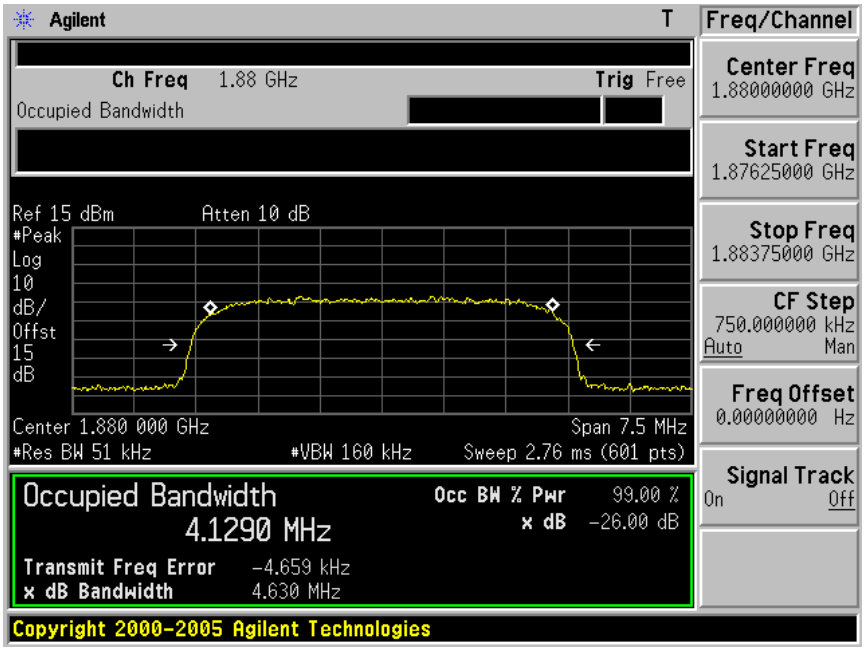
Model Number	PH85110		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: WCDMA Band II Link		
Date of Test	06/27/2011	Test Site	TE02

Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Note
9262	1852.4	4.1277	RBW:51kHz , VBW:160kHz
9400	1880.0	4.1290	RBW:51kHz , VBW:160kHz
9538	1907.6	4.1134	RBW:51kHz , VBW:160kHz

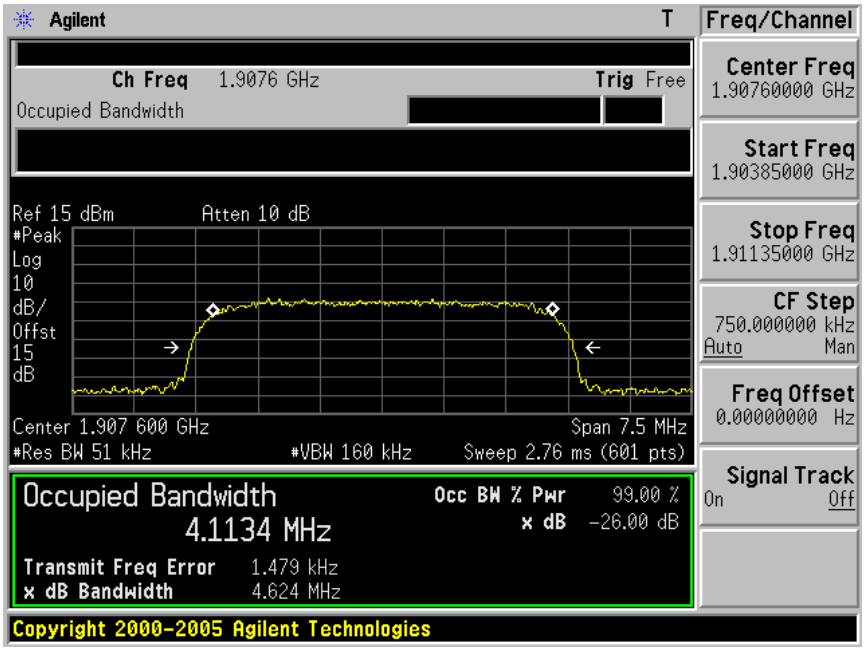
Channel 9262



Channel 9400

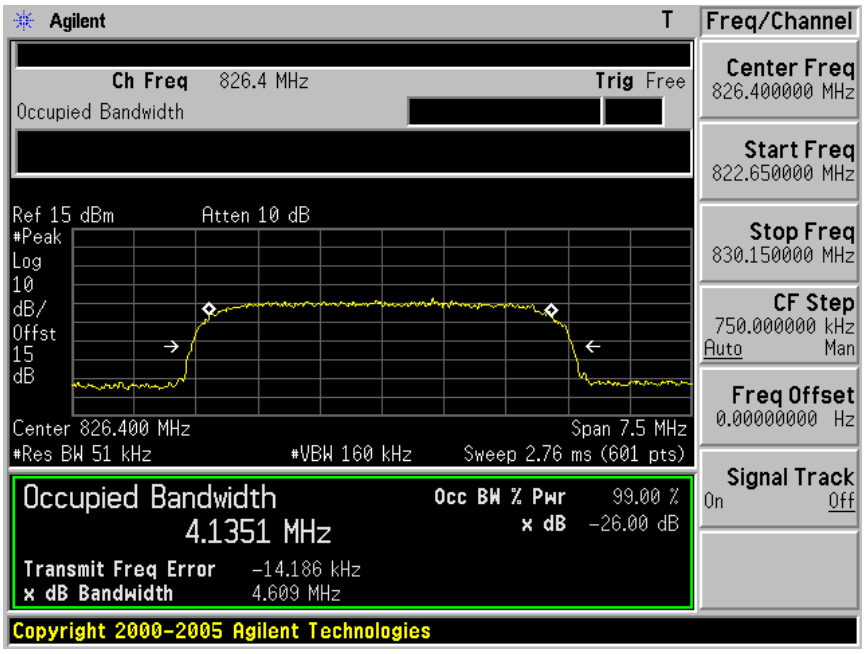


Channel 9538

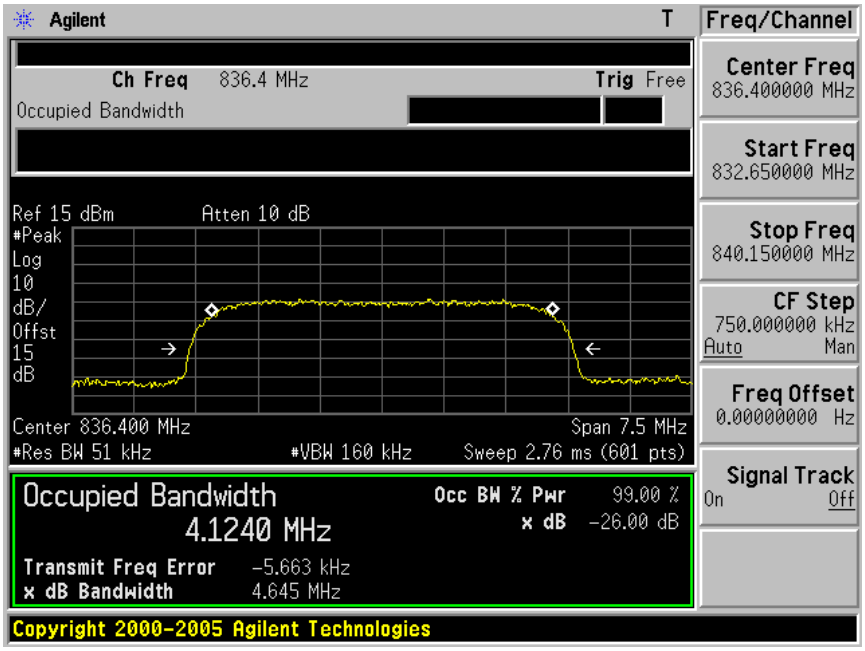


Model Number	PH85110			
Test Item	Occupied Bandwidth			
Test Mode	Mode 4: HSDPA Band V Link			
Date of Test	06/27/2011		Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note	
4132	826.4	4.1351	RBW:51kHz , VBW:160kHz	
4182	836.4	4.1240	RBW:51kHz , VBW:160kHz	
4233	846.4	4.1400	RBW:51kHz , VBW:160kHz	

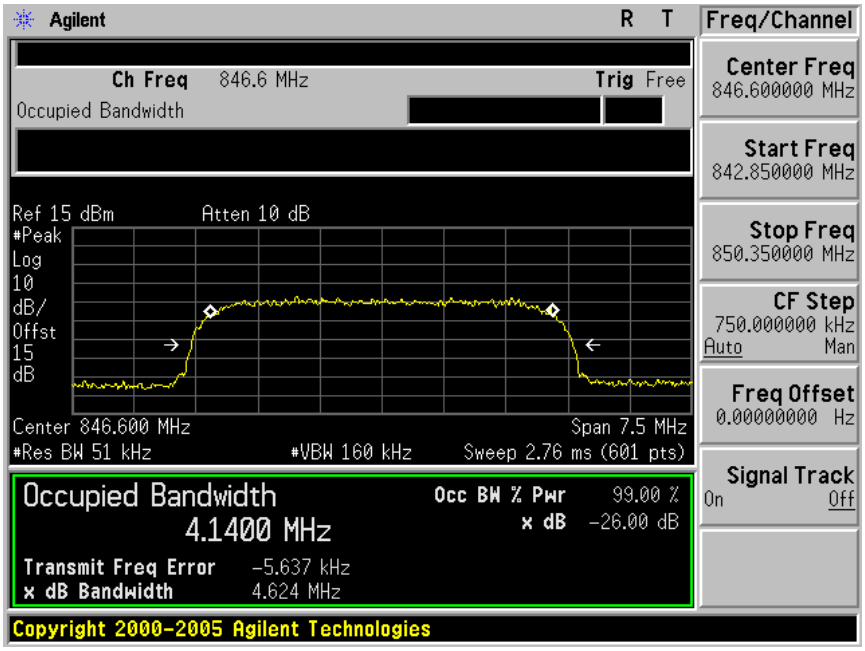
Channel 4132



Channel 4182



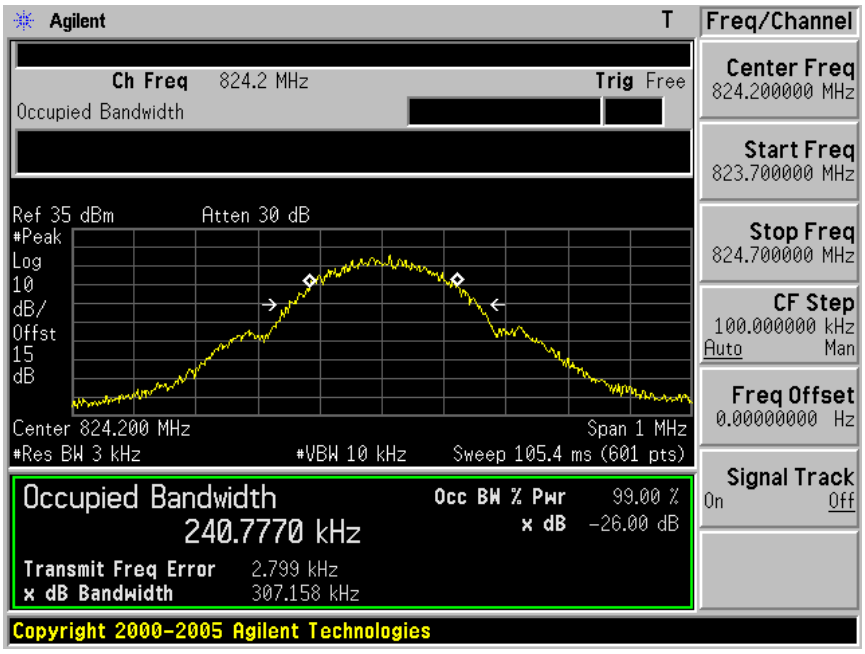
Channel 4233



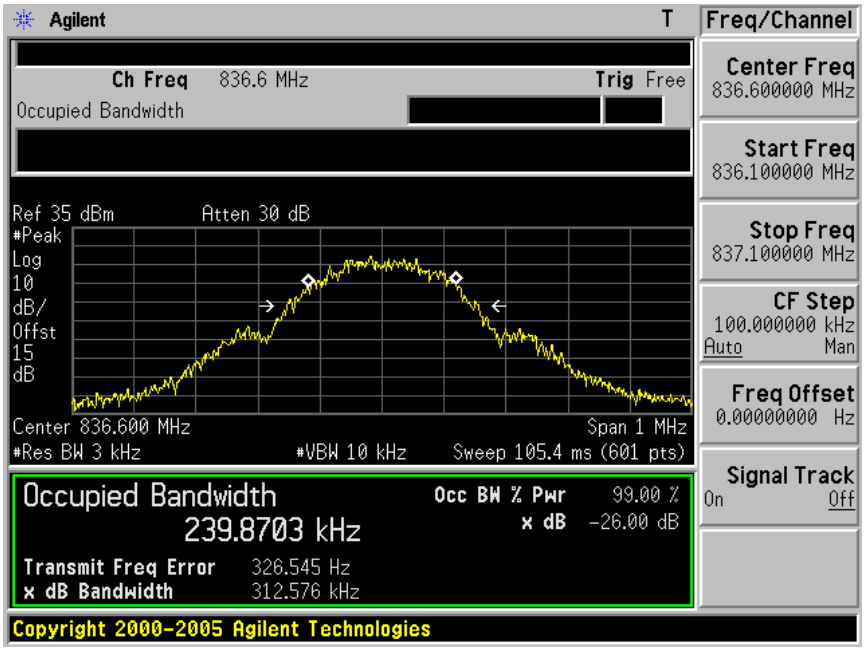
Model Number	PH85110		
Test Item	Occupied Bandwidth		
Test Mode	Mode 5: EGPRS 850 Link		
Date of Test	06/27/2011	Test Site	TE02

Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
128	824.2	240.7770	RBW:3kHz , VBW:10kHz
190	836.4	239.8703	RBW:3kHz , VBW:10kHz
251	848.8	247.7158	RBW:3kHz , VBW:10kHz

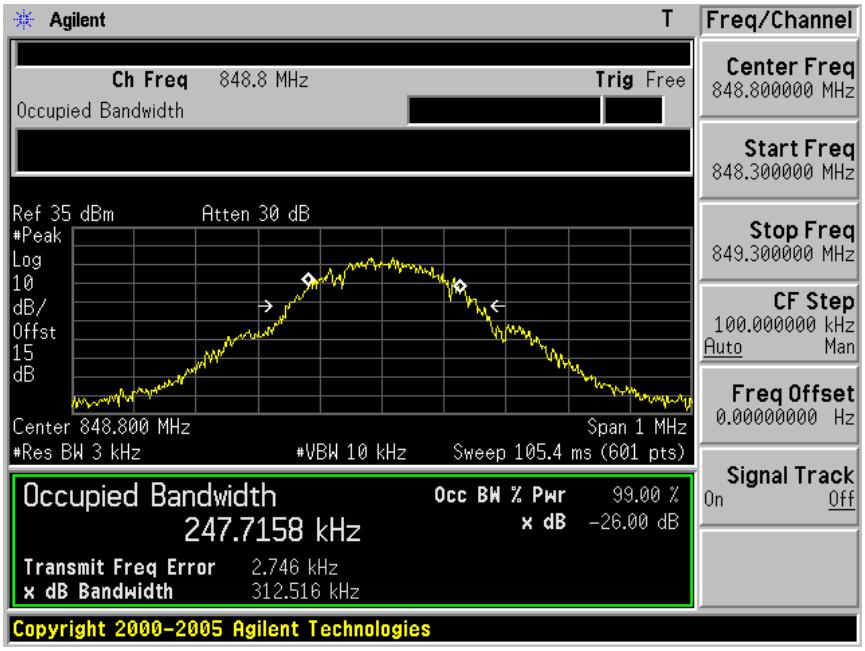
Channel 128



Channel 190

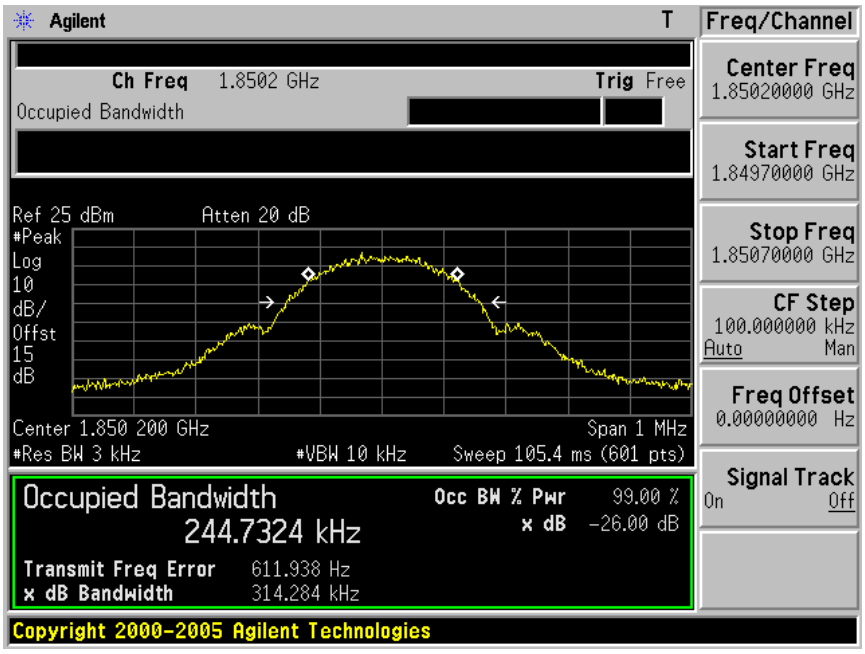


Channel 251

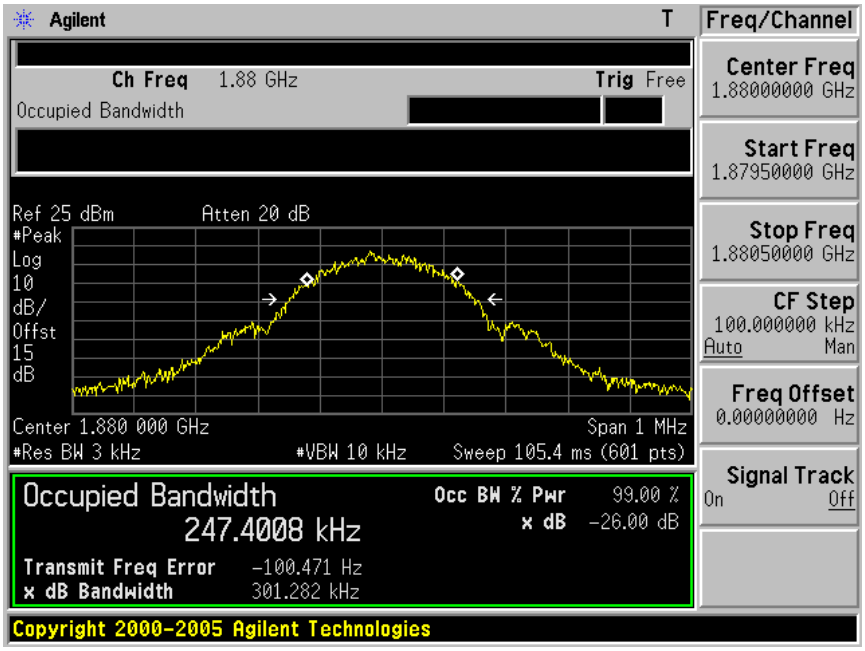


Model Number	PH85110			
Test Item	Occupied Bandwidth			
Test Mode	Mode 6: EGPRS 1900 Link			
Date of Test	06/27/2011		Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note	
512	1850.20	244.7324	RBW:3kHz , VBW:10kHz	
661	1880.00	247.4008	RBW:3kHz , VBW:10kHz	
810	1909.80	241.0617	RBW:3kHz , VBW:10kHz	

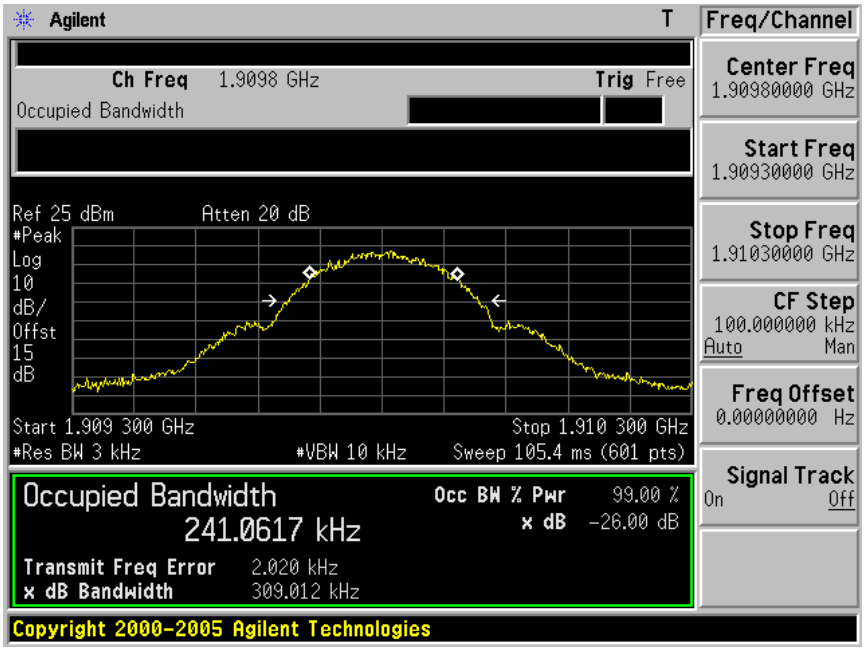
Channel 512



Channel 661



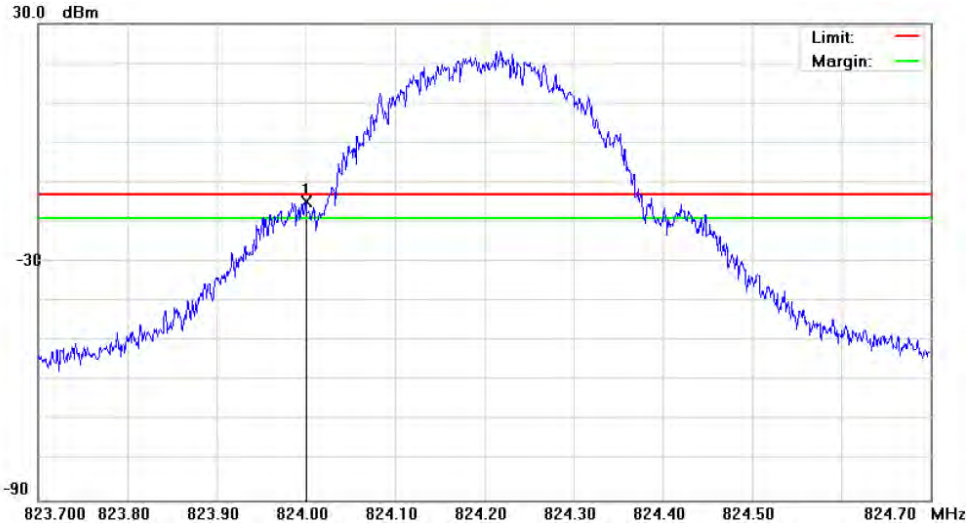
Channel 810



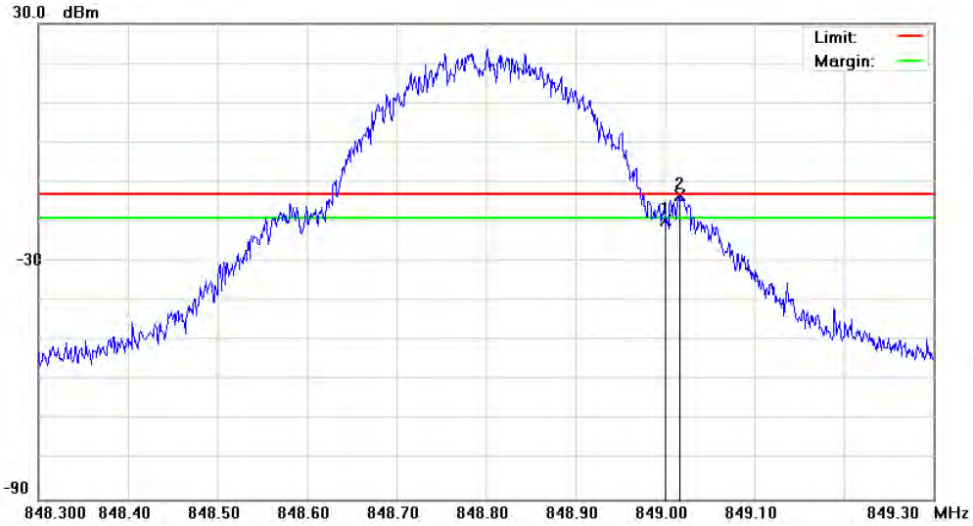
Band Edge

Model Number	PH85110				
Test Item	Band Edge				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	06/27/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	128	824.0000	-14.98	-13	Pass
Higher	251	849.0000	-19.74	-13	Pass

Lower Band

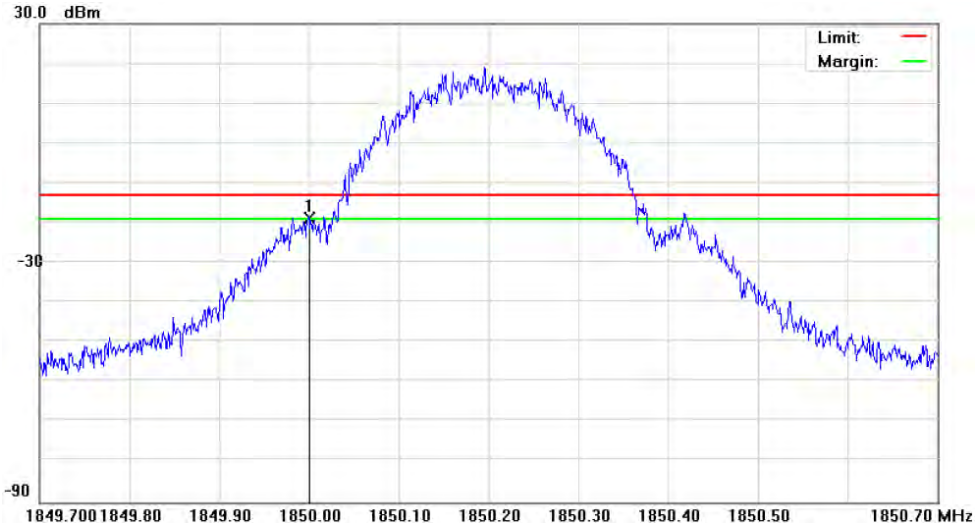


Higher Band

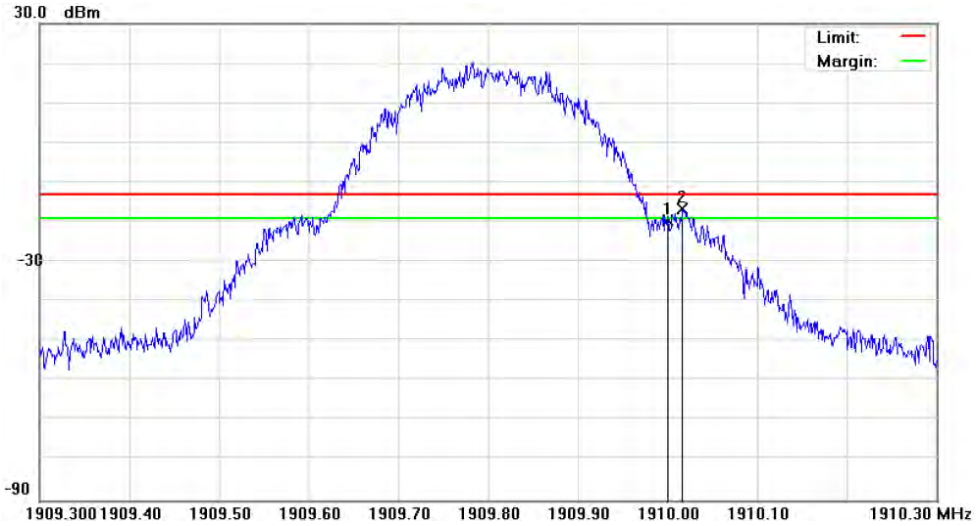


Model Number	PH85110				
Test Item	Band Edge				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	06/27/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	512	1850.000	-18.62	-13	Pass
Higher	810	1910.000	-19.54	-13	Pass

Lower Band

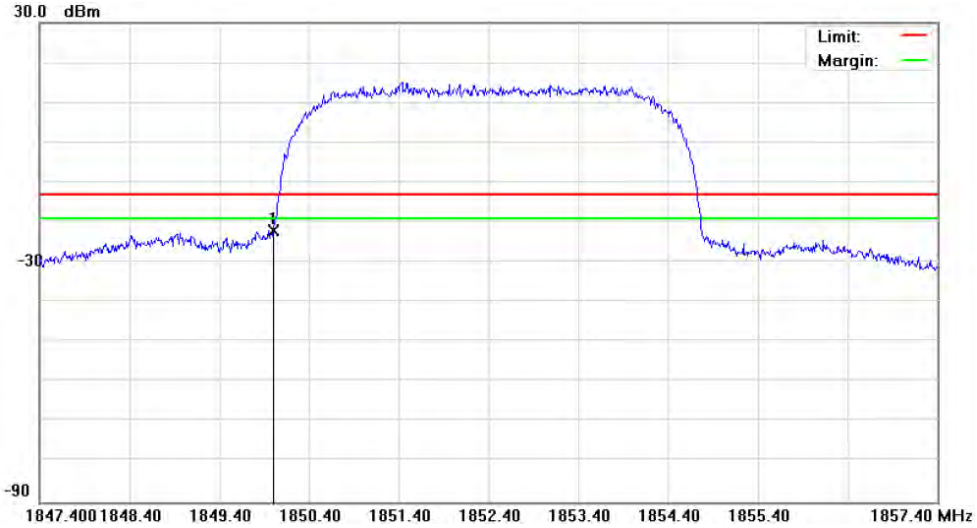


Higher Band

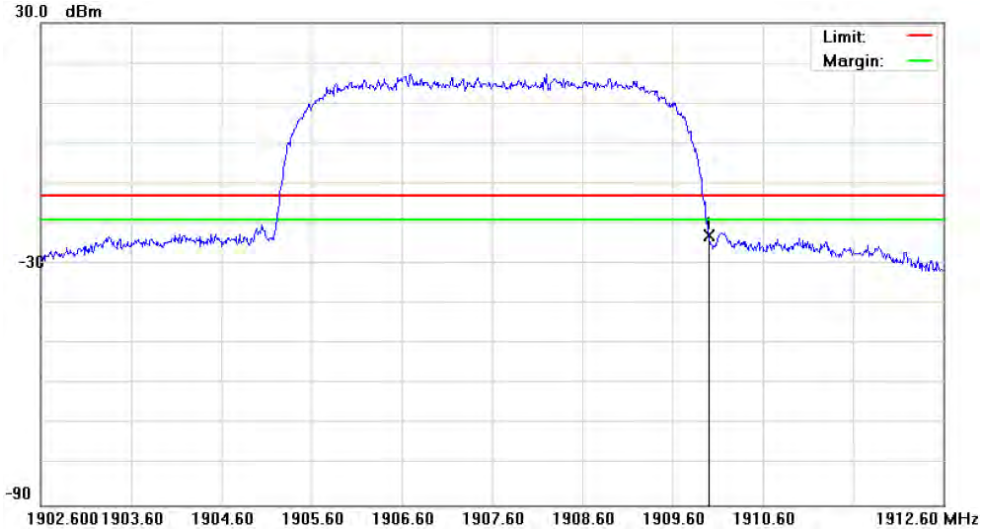


Model Number	PH85110				
Test Item	Band Edge				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	06/27/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	9262	1850.000	-22.05	-13	Pass
Higher	9538	1910.000	-23.05	-13	Pass

Lower Band

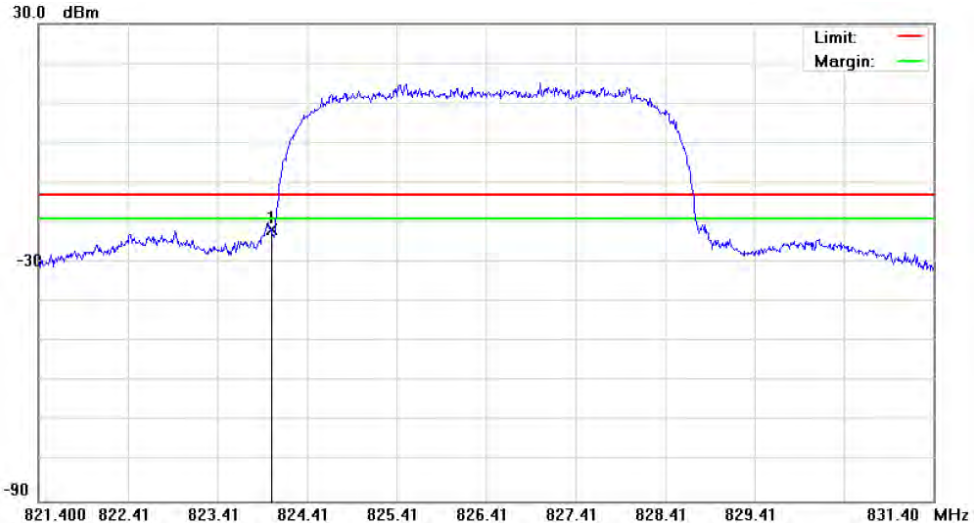


Higher Band

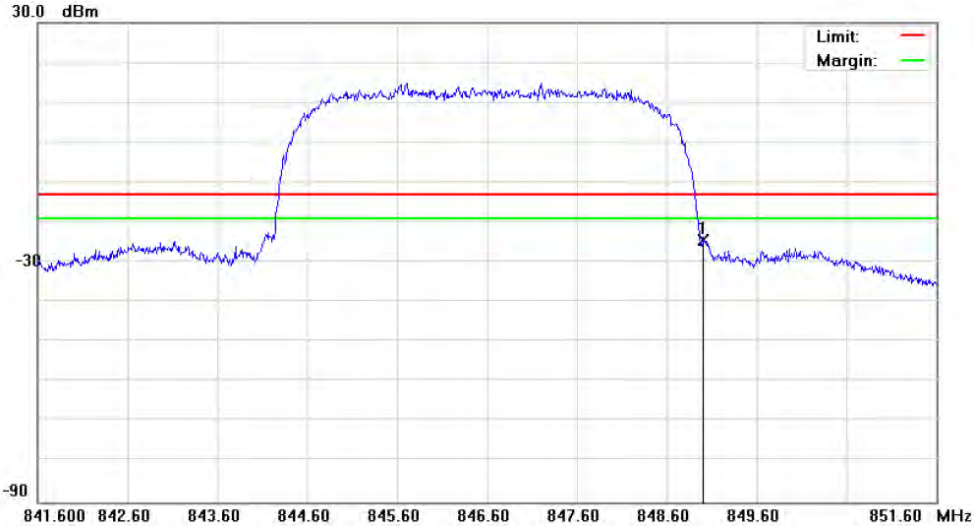


Model Number	PH85110				
Test Item	Band Edge				
Test Mode	Mode 4: HSDPA Band V Link				
Date of Test	06/27/2011		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	4132	824.0000	-21.68	-13	Pass
Higher	4233	849.0000	-24.50	-13	Pass

Lower Band



Higher Band



5 Conducted Emission Test

5.1. Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

5.2. Test Instruments

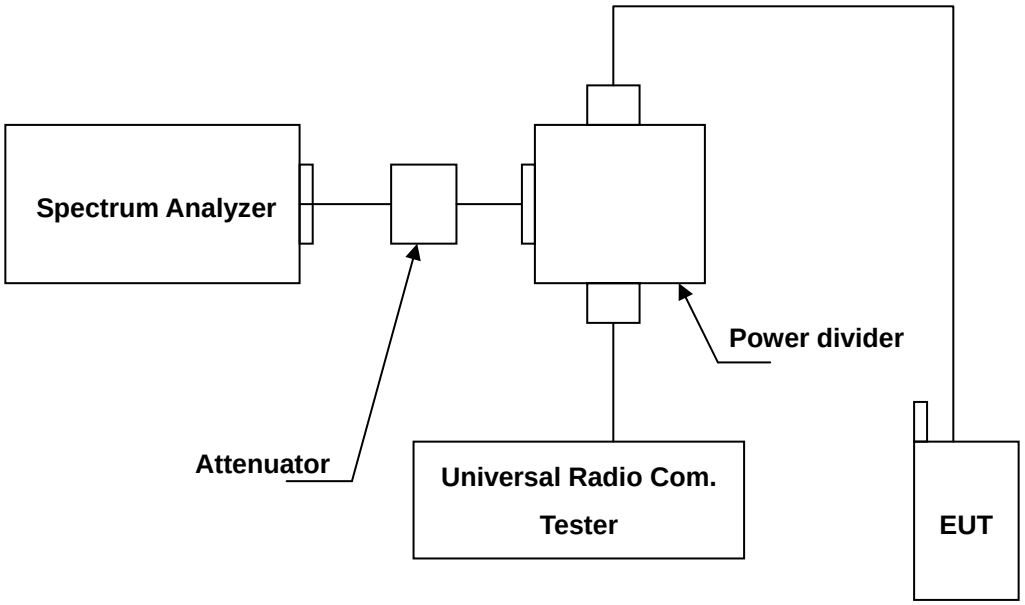
Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/16/2011	(1)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

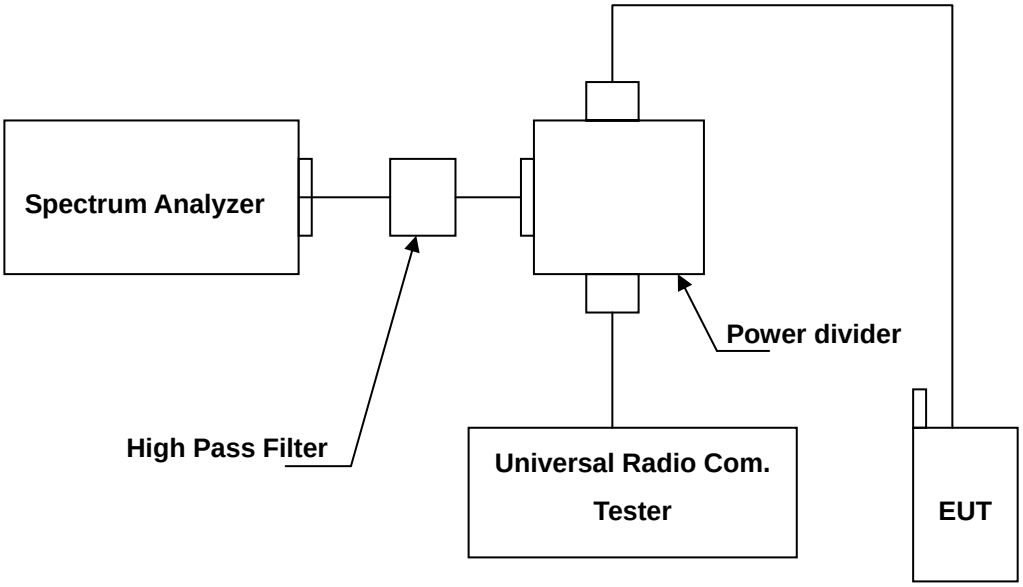
NOTE: N.C.R. = No Calibration Request.

5.3. Setup

Below 2.8GHz



Above 2.8GHz



5.4. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.
4. Test setting at GSM 850 RB>100 kHz, VB>100 kHz; PCS 1900 RB>1MHz, VB>1MHz.

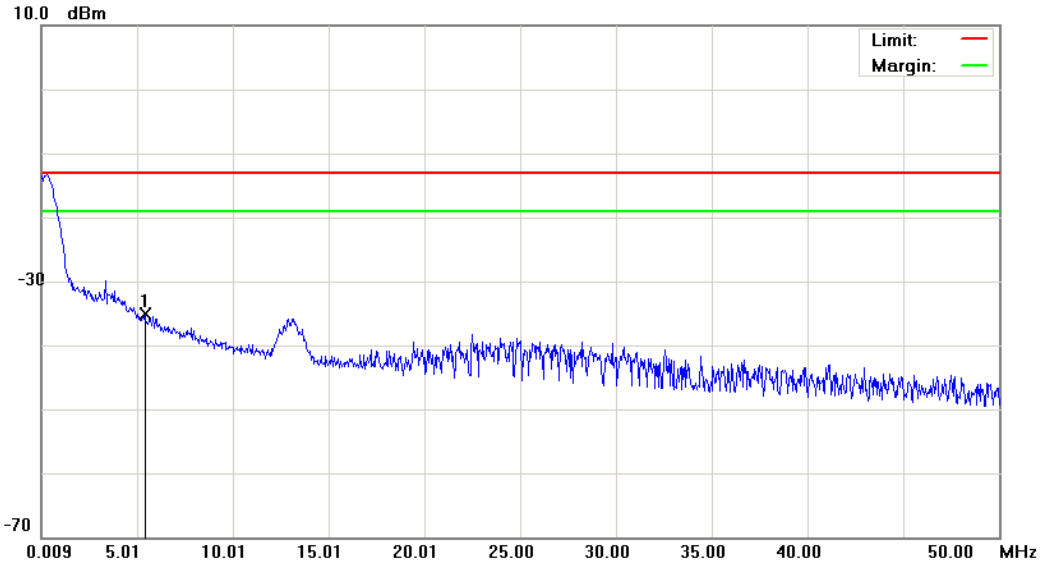
5.5. Uncertainty

The measurement uncertainty is evaluated as ± 2.24 dB.

5.6. Test Result

Model Number	PH85110		
Test Item	Conducted Emission		
Mode	Mode 1: GSM 850 Link Mode 2: GSM 1900 Link Mode 3: WCDMA Band II Link Mode 4: HSDPA Band V Link		
Date of Test	06/27~06/28/2011	Test Site	TE02

File:PH85110(CH128) Data :#1 Date: 2011/6/28 Time: 上午 09:26:29



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

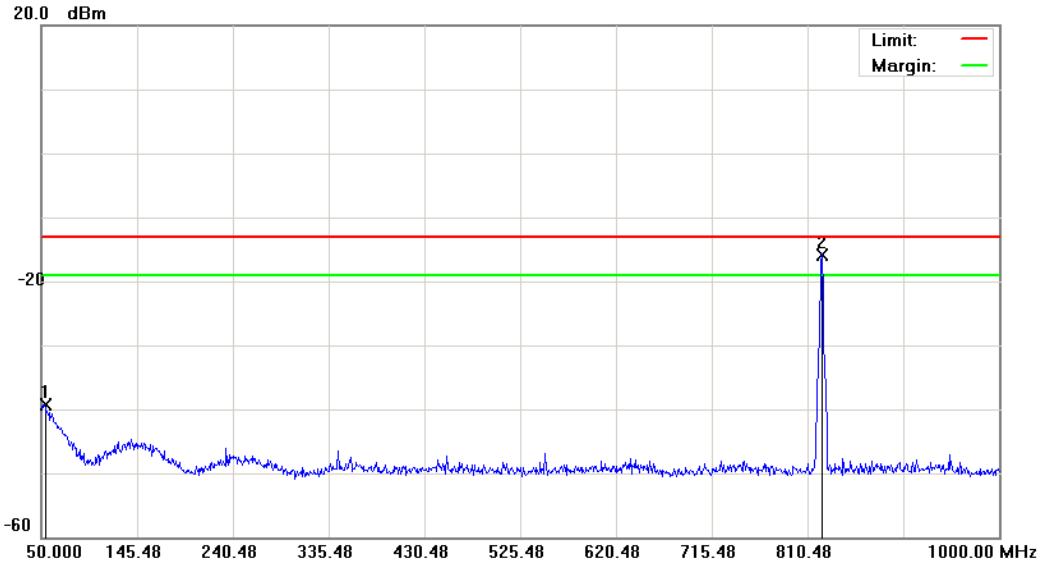
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	5.4080	-62.94	27.78	-35.16	-13.00	-22.16	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH128) Data :#2 Date: 2011/6/28 Time: 上午 09:26:53



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

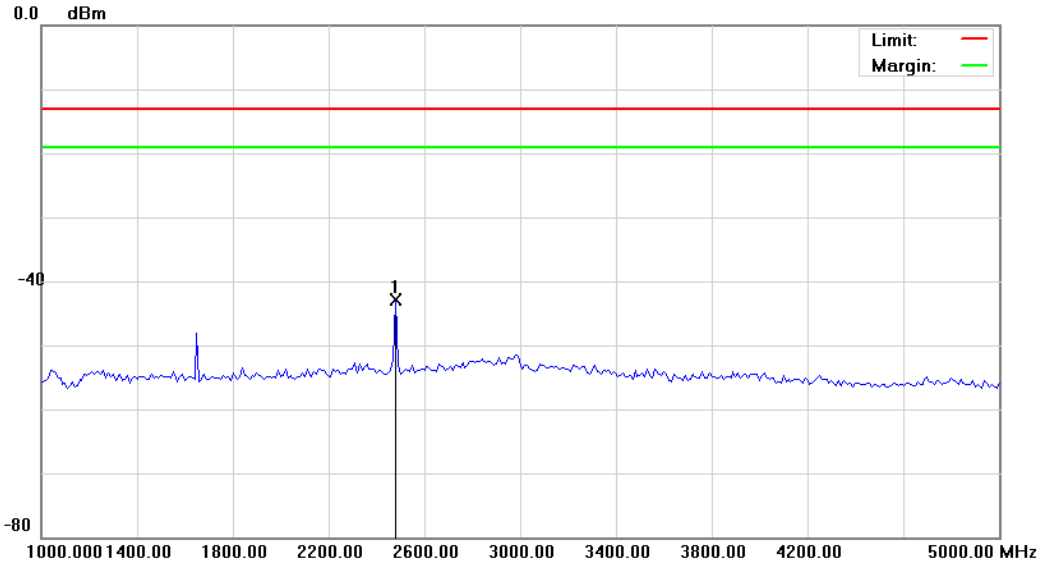
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		53.3250	-53.35	14.10	-39.25	-13.00	-26.25	peak			
2	*	824.2500	-19.64	3.84	-15.80	-13.00	-2.80	peak			TX

*:Maximum data x:Over limit !:over margin

File :PH85110(CH128) Data :#3 Date: 2011/6/28 Time: 上午 09:45:31



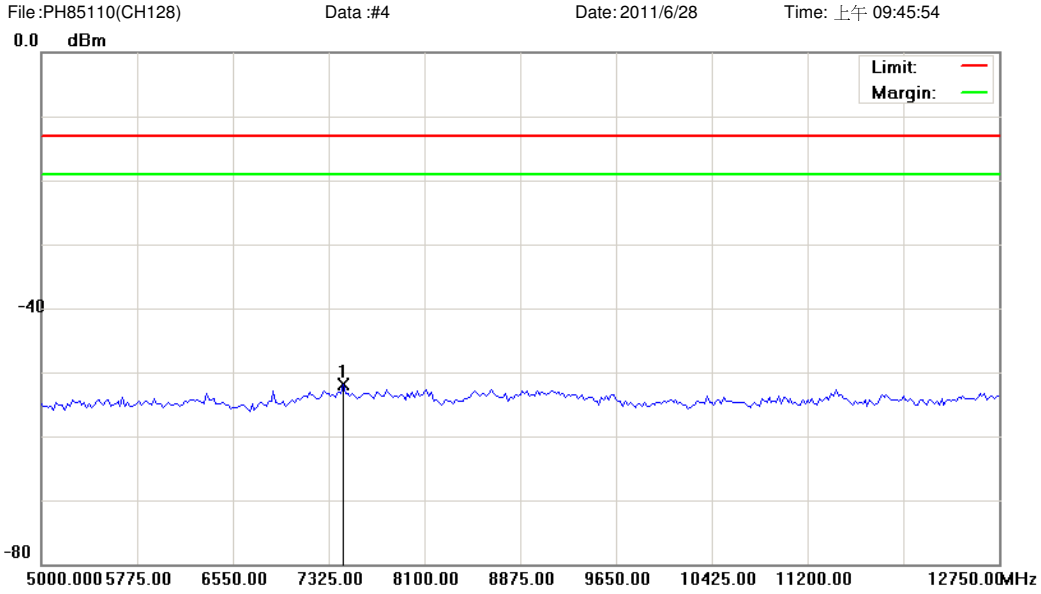
Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2480.000	-47.24	4.43	-42.81	-13.00	-29.81	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

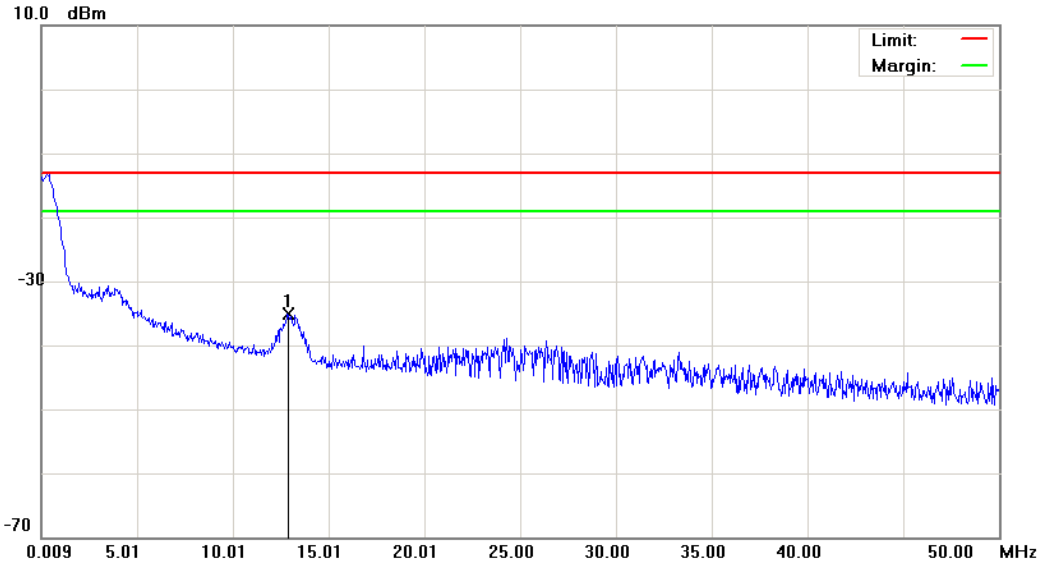
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7441.250	-57.07	5.22	-51.85	-13.00	-38.85	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH190) Data :#1 Date: 2011/6/28 Time: 上午 09:28:18



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

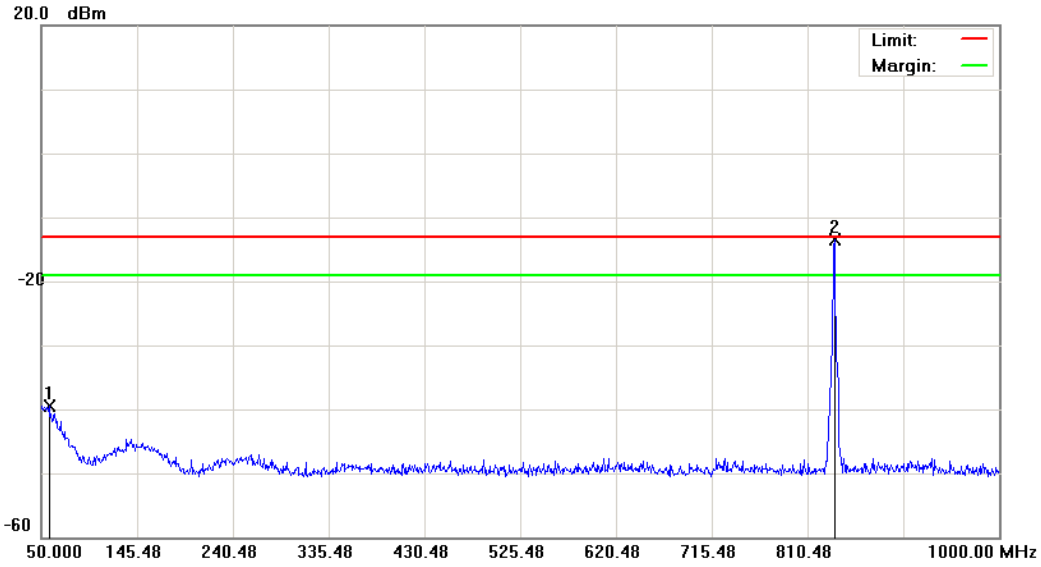
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	12.8817	-57.11	22.04	-35.07	-13.00	-22.07	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH190) Data :#2 Date: 2011/6/28 Time: 上午 09:28:42



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

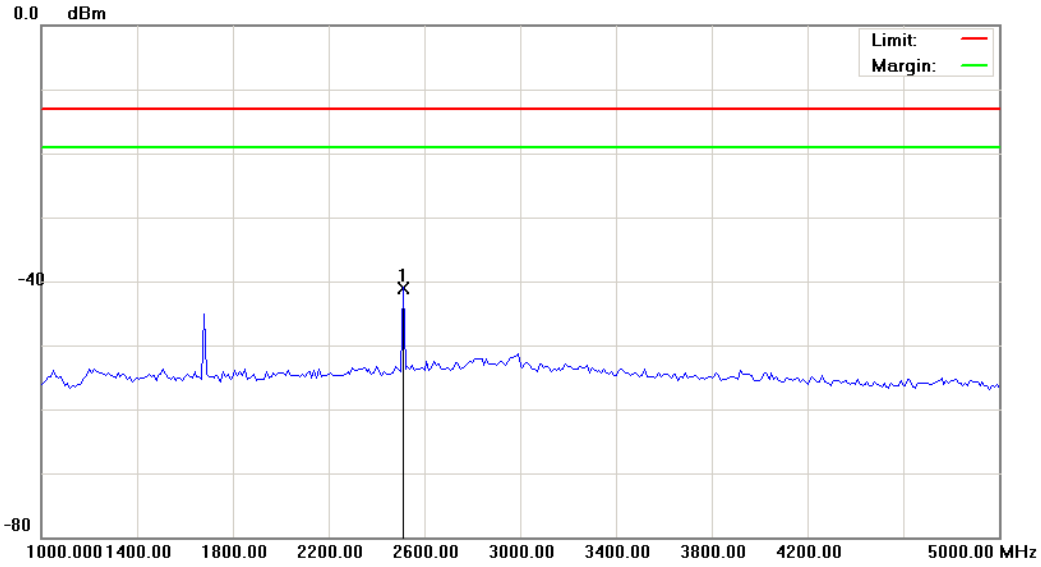
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		57.6000	-52.85	13.33	-39.52	-13.00	-26.52	peak			
2	*	836.6000	-17.47	3.96	-13.51	-13.00	-0.51	peak			TX

*:Maximum data x:Over limit !:over margin

File :PH85110(CH190) Data :#3 Date: 2011/6/28 Time: 上午 09:50:45



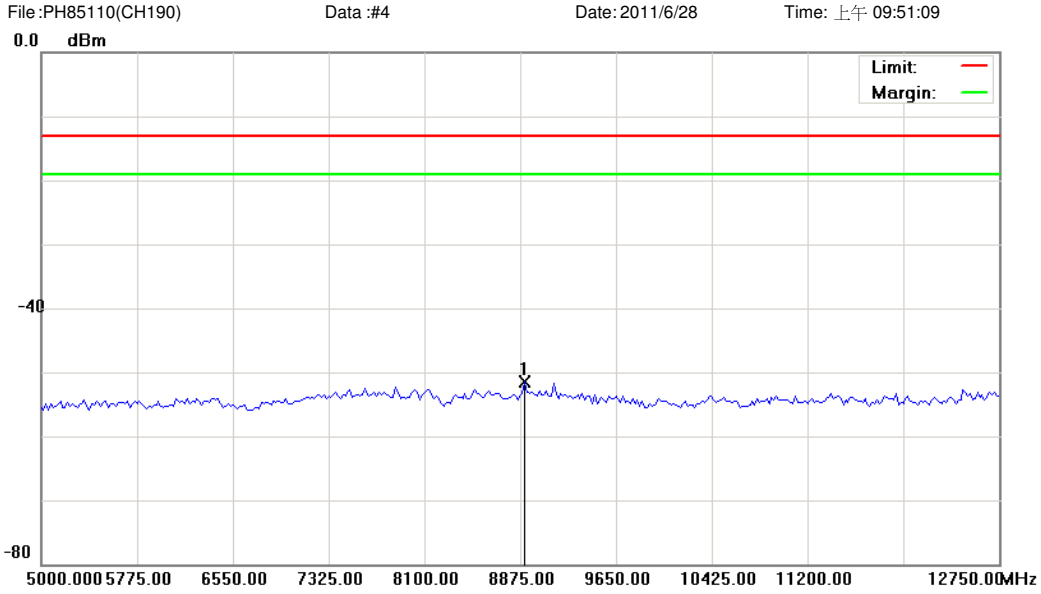
Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2510.000	-45.36	4.36	-41.00	-13.00	-28.00	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

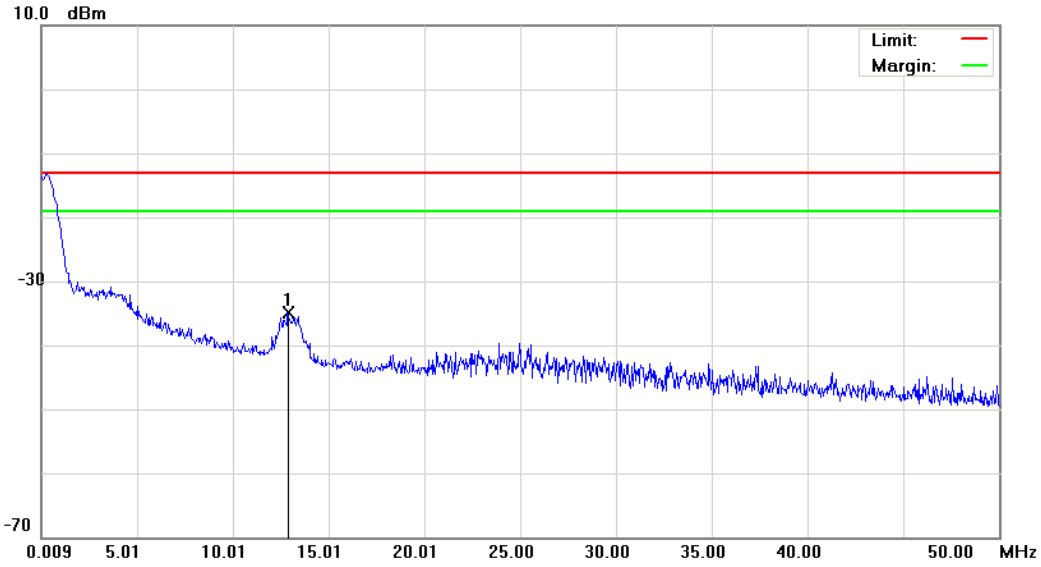
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	8913.750	-56.96	5.46	-51.50	-13.00	-38.50	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH251) Data :#1 Date: 2011/6/28 Time: 上午 09:31:03



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

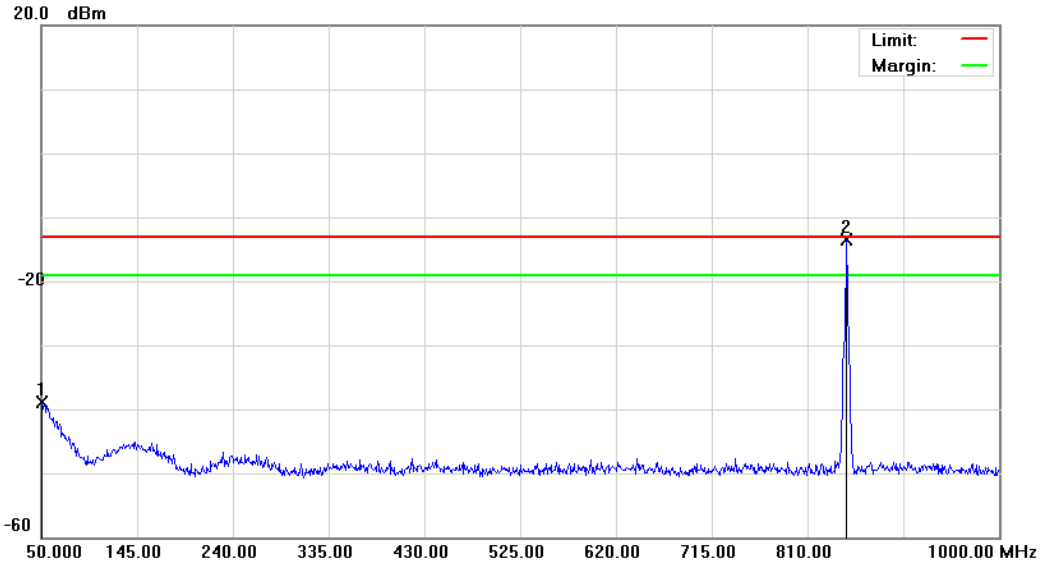
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	12.8817	-57.02	22.04	-34.98	-13.00	-21.98	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH251) Data :#2 Date: 2011/6/28 Time: 上午 09:31:28



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

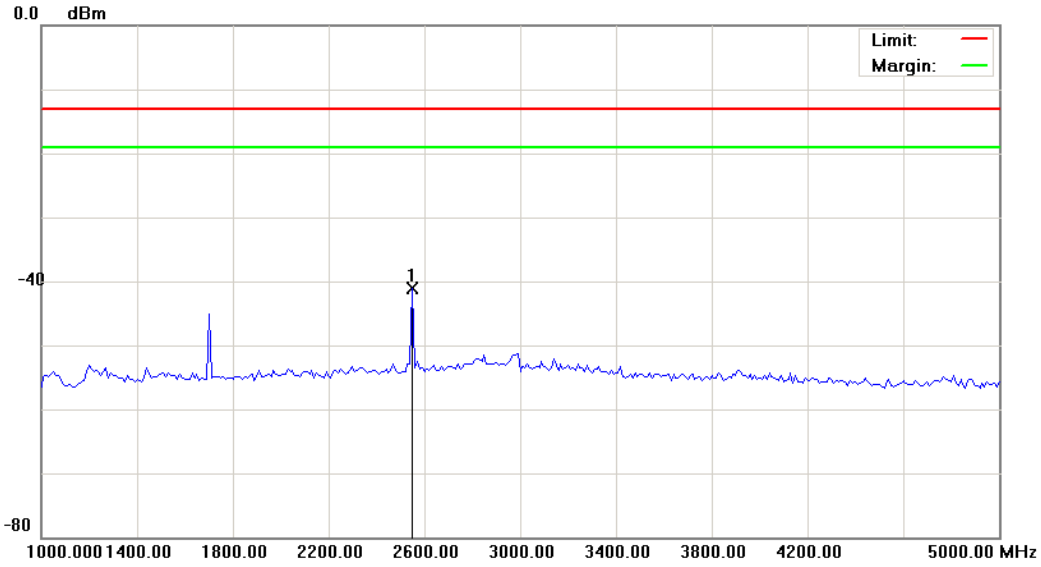
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		50.9500	-53.47	14.52	-38.95	-13.00	-25.95	peak			
2	*	848.9500	-17.48	3.98	-13.50	-13.00	-0.50	peak			TX

*:Maximum data x:Over limit !:over margin

File :PH85110(CH251) Data :#3 Date: 2011/6/28 Time: 上午 09:51:55



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

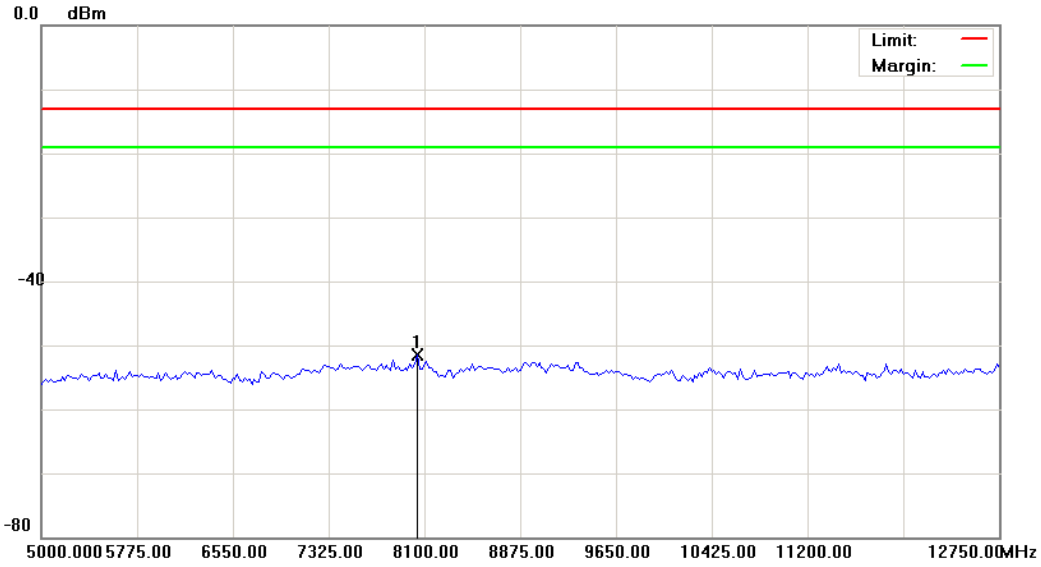
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2550.000	-45.49	4.46	-41.03	-13.00	-28.03	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH251) Data :#4 Date: 2011/6/28 Time: 上午 09:52:19



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: GSM 850
Note:

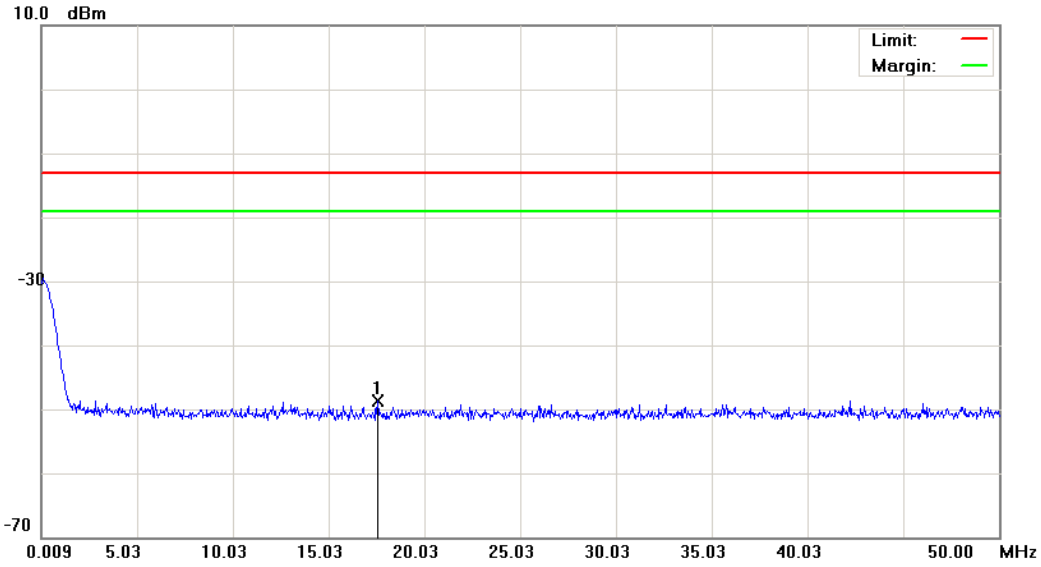
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	8041.875	-56.71	5.27	-51.44	-13.00	-38.44	peak			

*:Maximum data x:Over limit !:over margin

File :PD98110(CH512) Data :#1 Date: 2011/6/27 Time: 下午 03:56:18



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

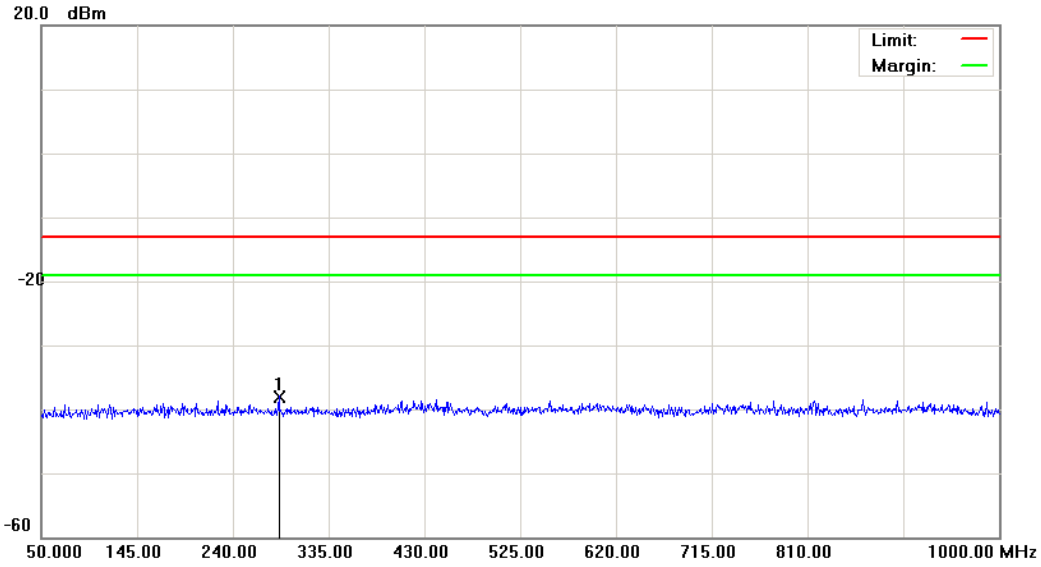
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	17.5558	-62.04	13.28	-48.76	-13.00	-35.76	peak			

*:Maximum data x:Over limit !:over margin

File :PD98110(CH512) Data :#2 Date: 2011/6/27 Time: 下午 03:56:42



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

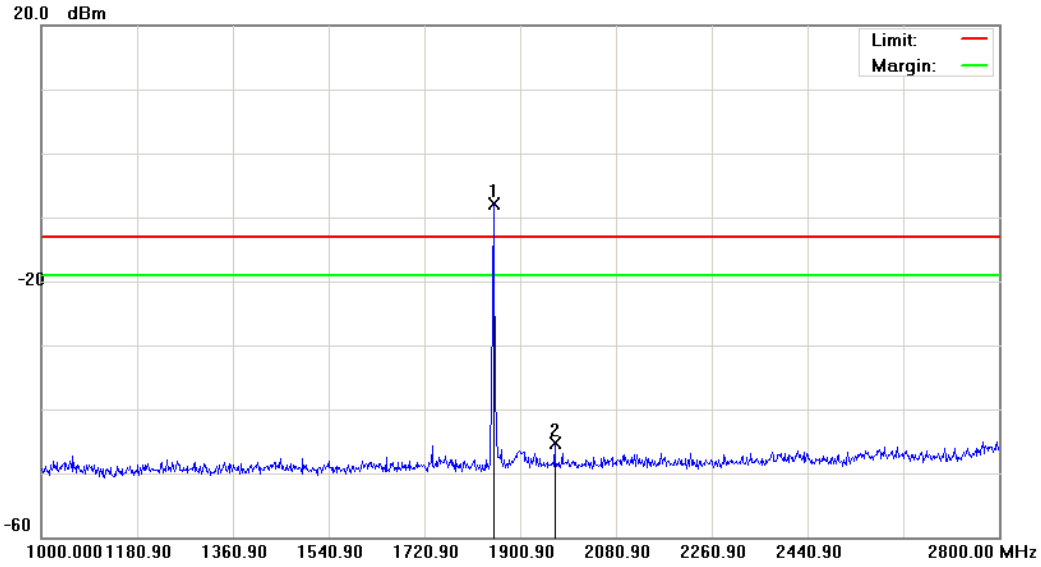
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	285.6000	-51.30	13.30	-38.00	-13.00	-25.00	peak			

*:Maximum data x:Over limit !:over margin

File :PD98110(CH512) Data :#3 Date: 2011/6/27 Time: 下午 04:03:19



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

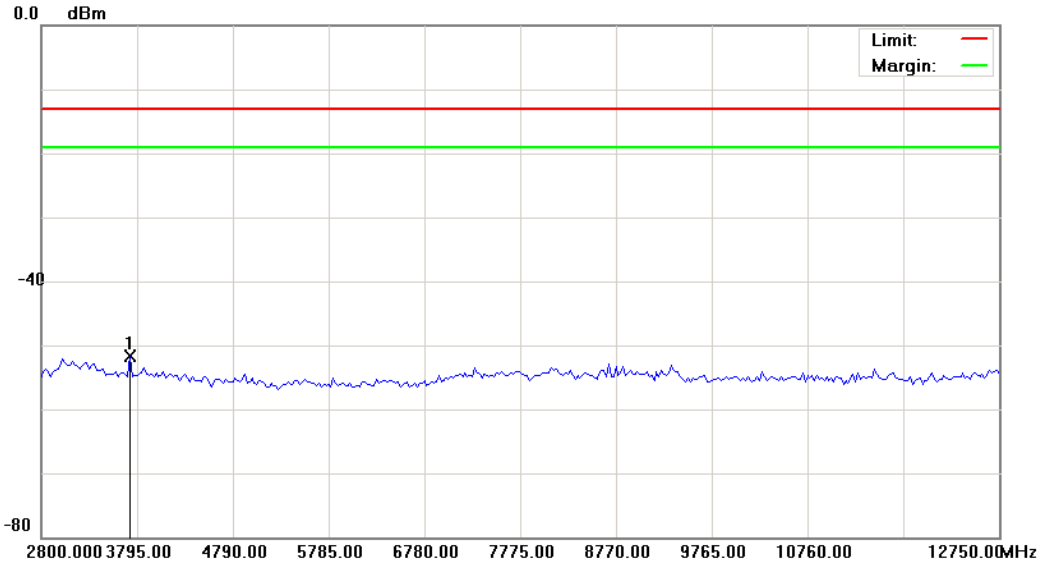
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1850.500	-12.21	4.26	-7.95	-13.00	5.05	peak			TX
2		1965.700	-49.98	4.75	-45.23	-13.00	-32.23	peak			

*:Maximum data x:Over limit !:over margin

File:PD98110(CH512) Data :#4 Date: 2011/6/28 Time: 上午 10:24:26



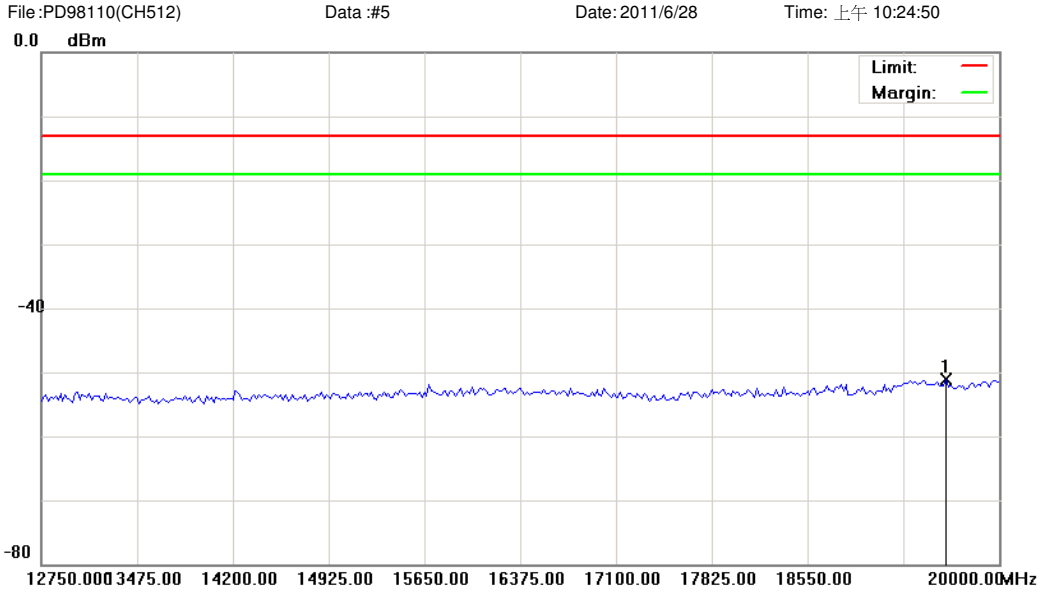
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3720.375	-56.56	4.88	-51.68	-13.00	-38.68	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

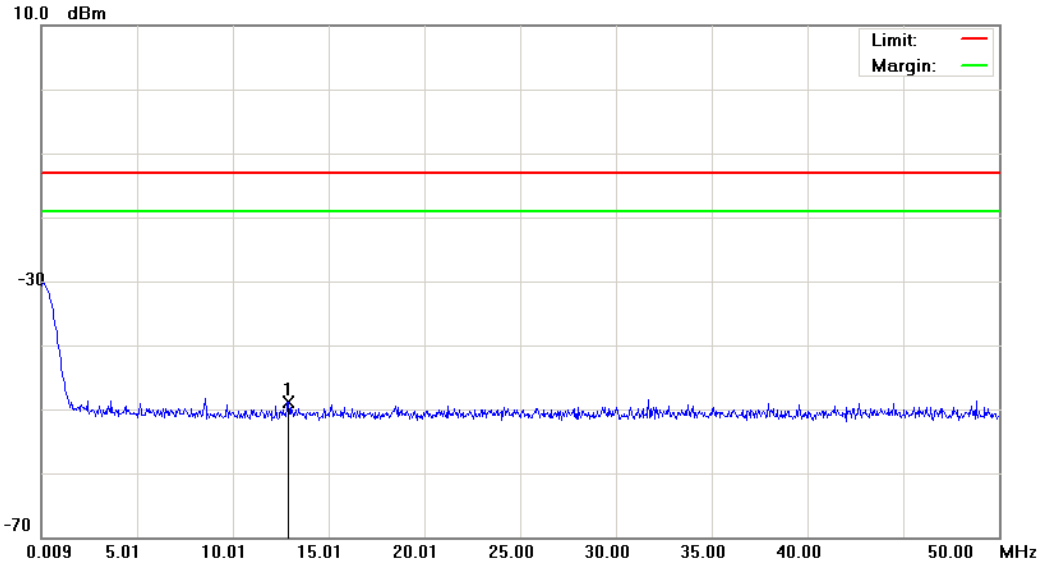
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	19601.250	-58.37	7.33	-51.04	-13.00	-38.04	peak			

*:Maximum data x:Over limit !:over margin

File:PD98110(CH661) Data :#1 Date: 2011/6/27 Time: 下午 03:57:28



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

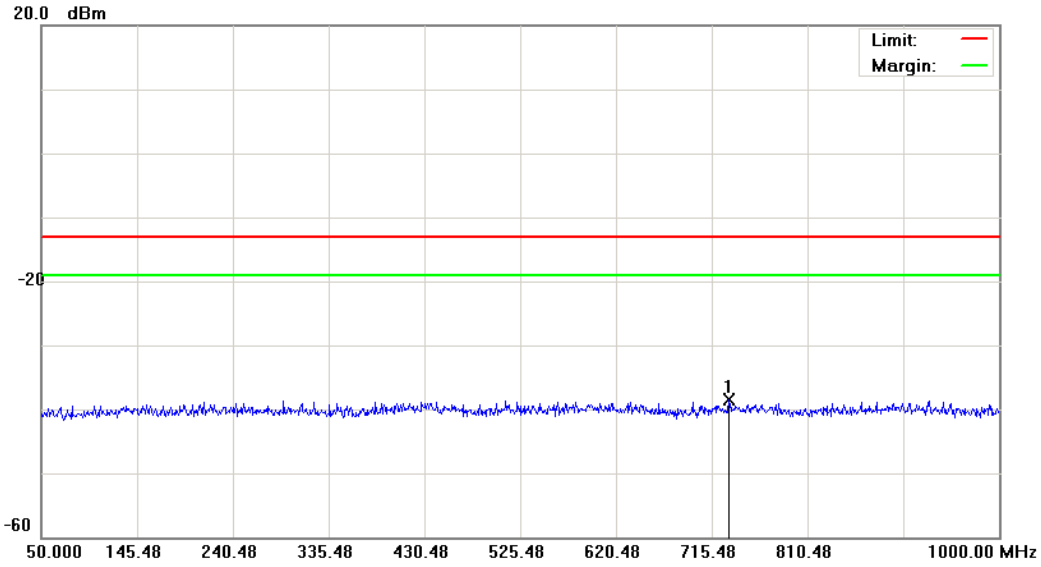
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	12.9067	-62.12	13.29	-48.83	-13.00	-35.83	peak			

*:Maximum data x:Over limit !:over margin

File :PD98110(CH661) Data :#2 Date: 2011/6/27 Time: 下午 03:57:52



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

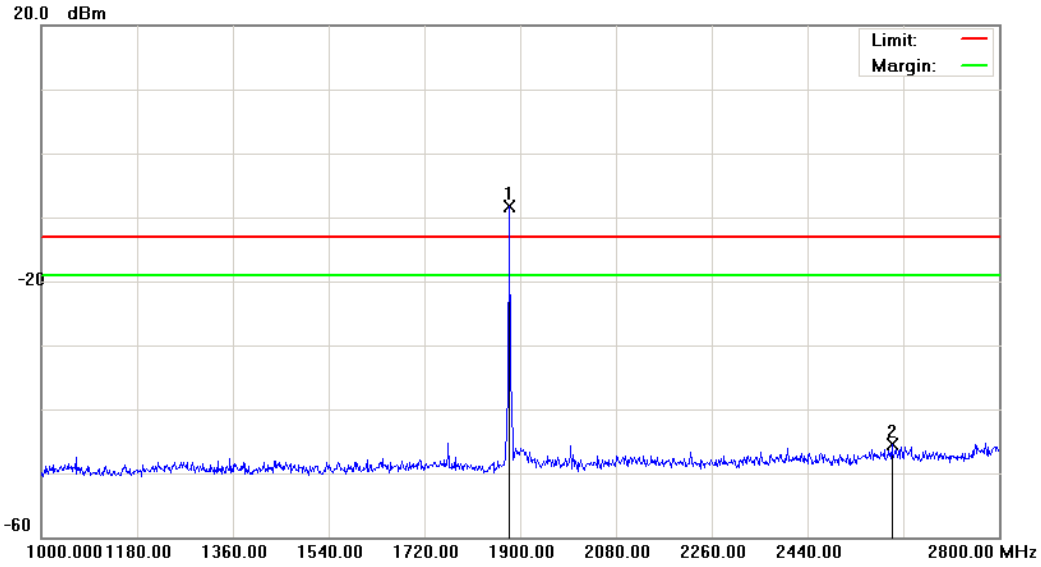
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	732.1000	-51.69	13.13	-38.56	-13.00	-25.56	peak			

*:Maximum data x:Over limit !:over margin

File :PD98110(CH661) Data :#3 Date: 2011/6/27 Time: 下午 04:07:05



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

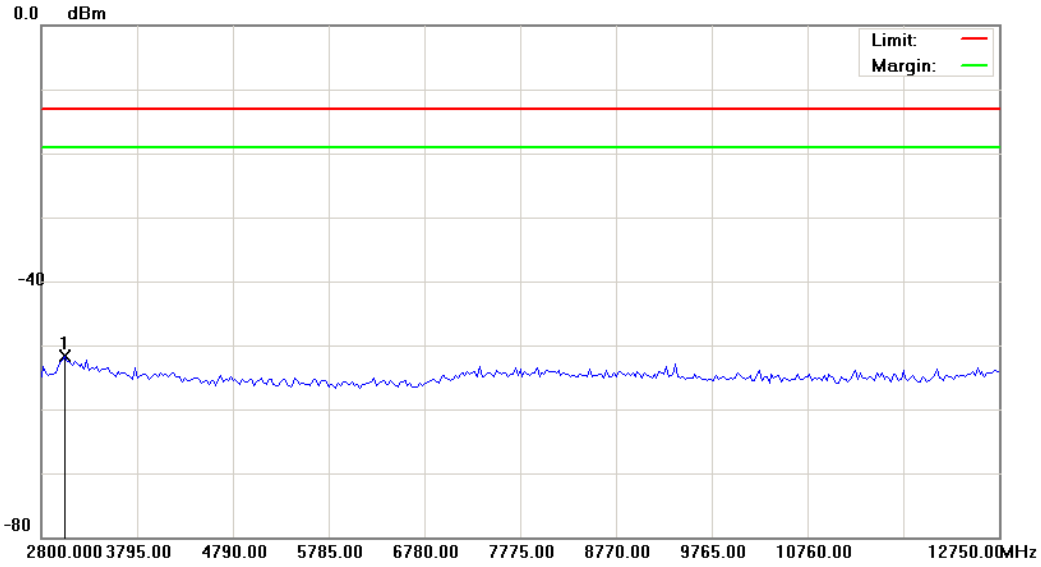
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1880.200	-13.01	4.65	-8.36	-13.00	4.64	peak			TX
2		2599.300	-50.86	5.45	-45.41	-13.00	-32.41	peak			

*:Maximum data x:Over limit !:over margin

File:PD98110(CH661) Data :#4 Date: 2011/6/28 Time: 上午 10:25:44



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

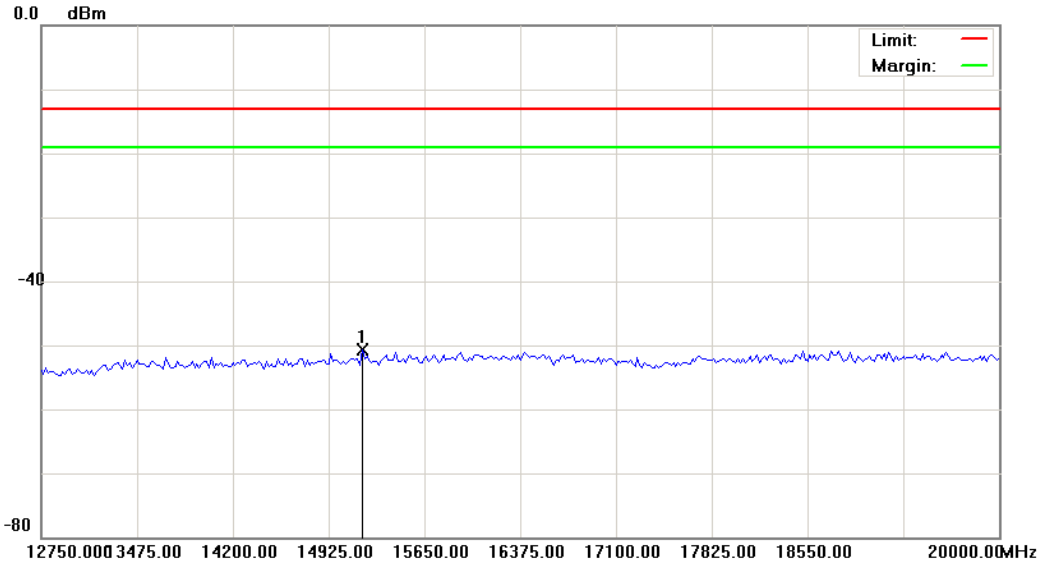
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3048.750	-57.10	5.47	-51.63	-13.00	-38.63	peak			

*:Maximum data x:Over limit !:over margin

File:PD98110(CH661) Data :#5 Date: 2011/6/28 Time: 上午 10:26:08



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

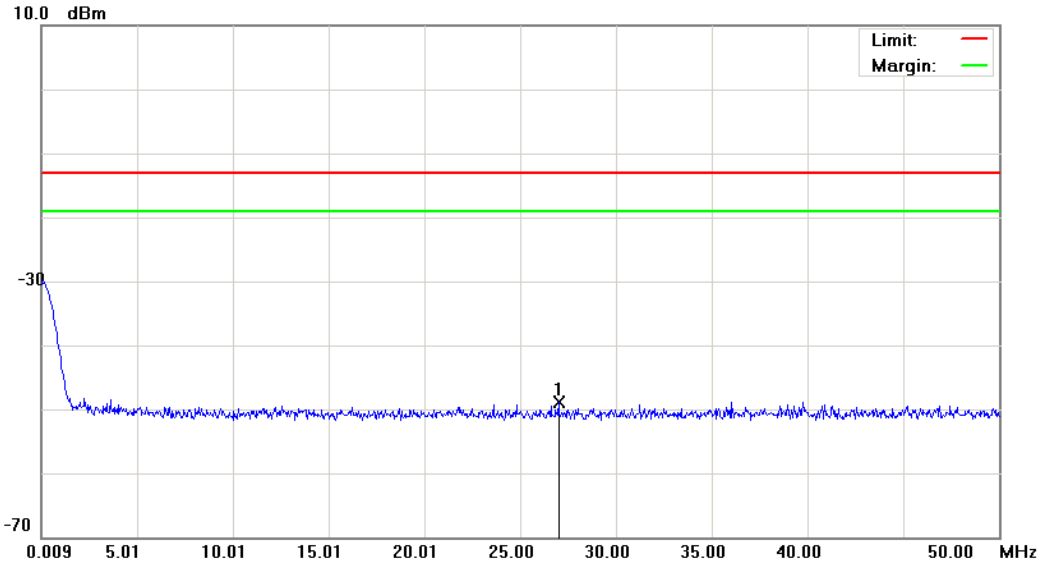
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	15178.750	-56.81	6.06	-50.75	-13.00	-37.75	peak			

*:Maximum data x:Over limit !:over margin

File:PD98110(CH810) Data :#1 Date: 2011/6/27 Time: 下午 03:59:08



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

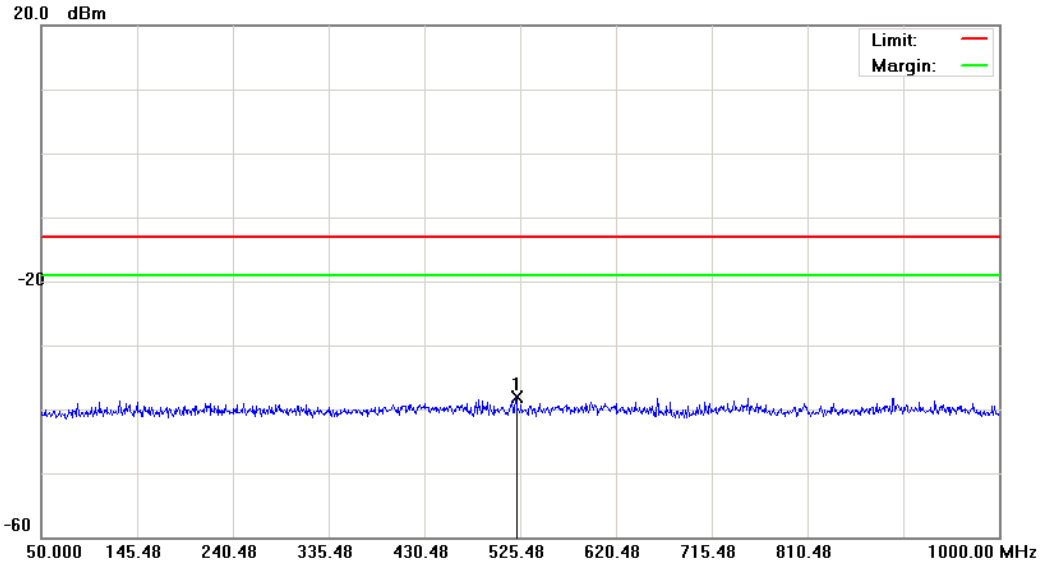
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	27.0041	-62.24	13.27	-48.97	-13.00	-35.97	peak			

*:Maximum data x:Over limit !:over margin

File :PD98110(CH810) Data :#2 Date: 2011/6/27 Time: 下午 03:59:32



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

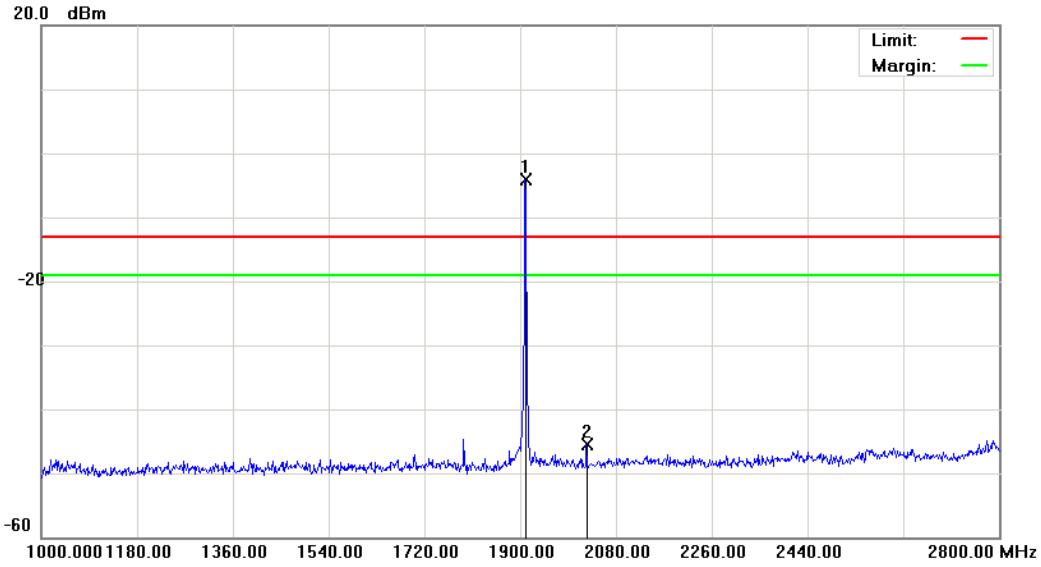
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	520.7250	-51.19	13.15	-38.04	-13.00	-25.04	peak			

*:Maximum data x:Over limit !:over margin

File :PD98110(CH810) Data :#3 Date: 2011/6/27 Time: 下午 04:12:49



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

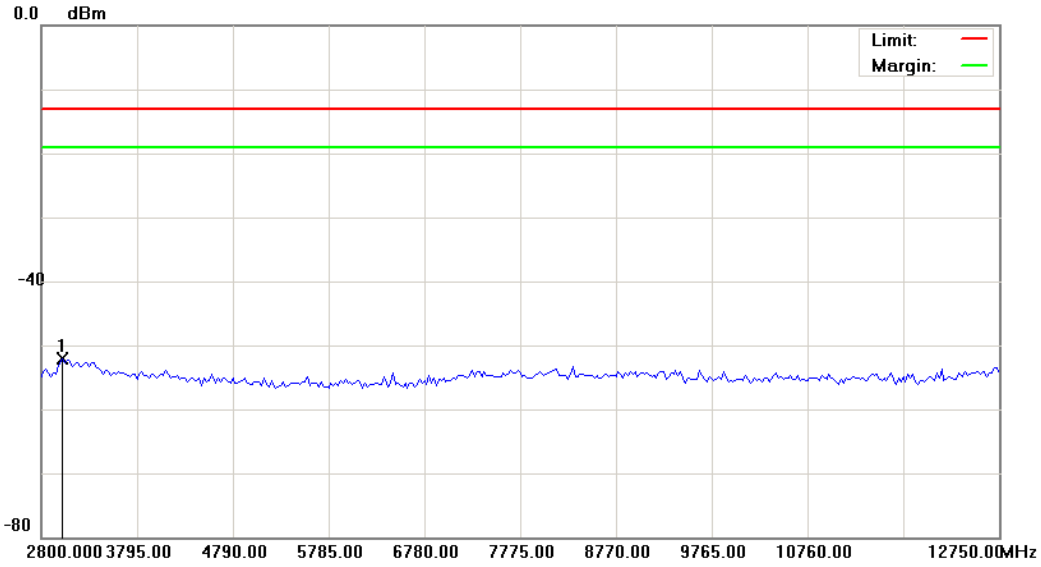
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1909.900	-9.77	5.71	-4.06	-13.00	8.94	peak			TX
2		2025.100	-49.98	4.43	-45.55	-13.00	-32.55	peak			

*:Maximum data x:Over limit !:over margin

File:PD98110(CH810) Data :#4 Date: 2011/6/28 Time: 上午 10:26:44



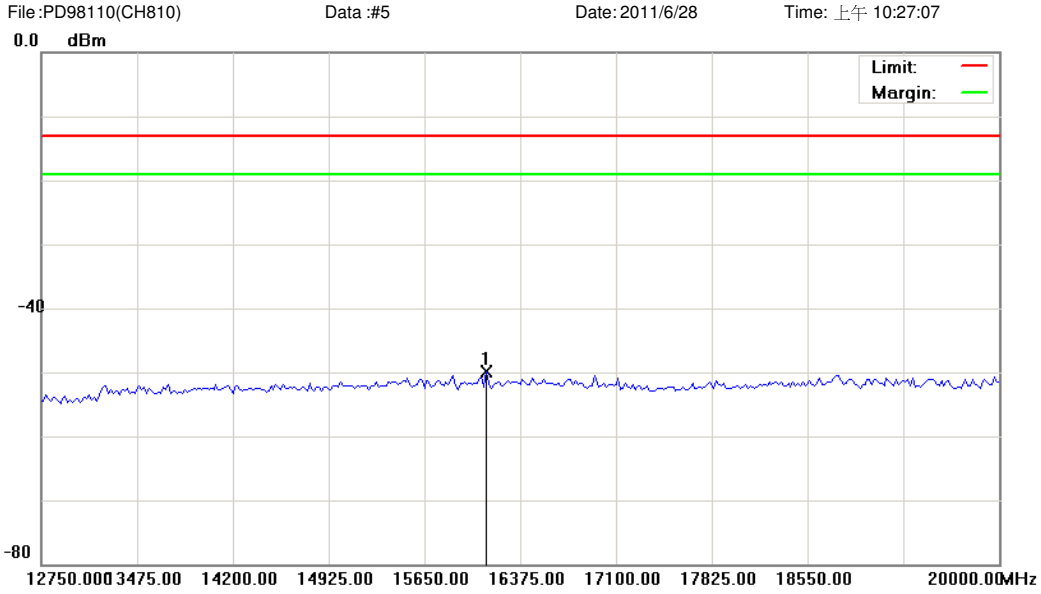
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3023.875	-57.62	5.48	-52.14	-13.00	-39.14	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: PCS 1900
Note:

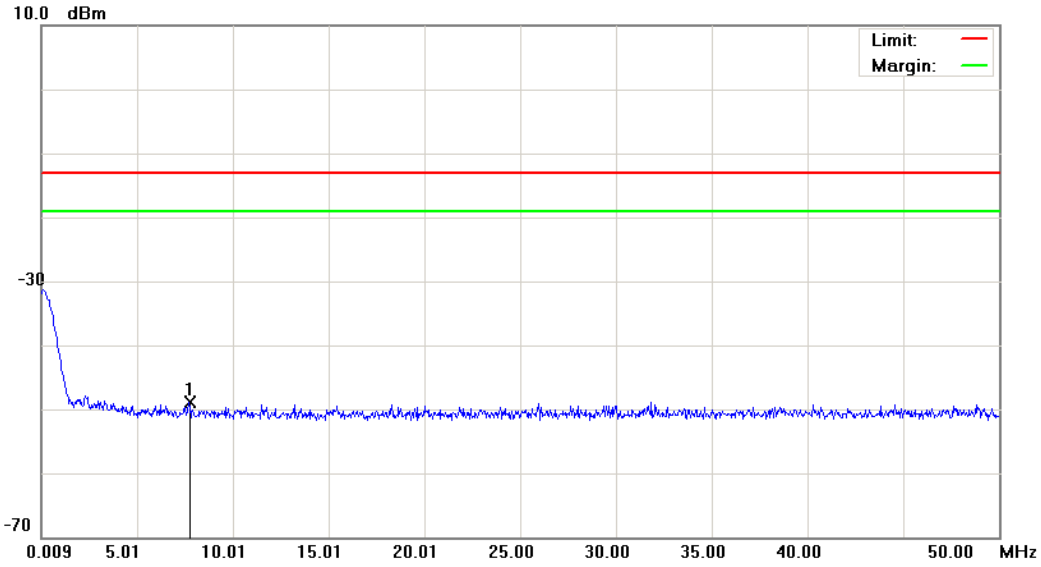
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	16121.250	-56.29	6.33	-49.96	-13.00	-36.96	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9262) Data :#1 Date: 2011/6/27 Time: 下午 03:40:34



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

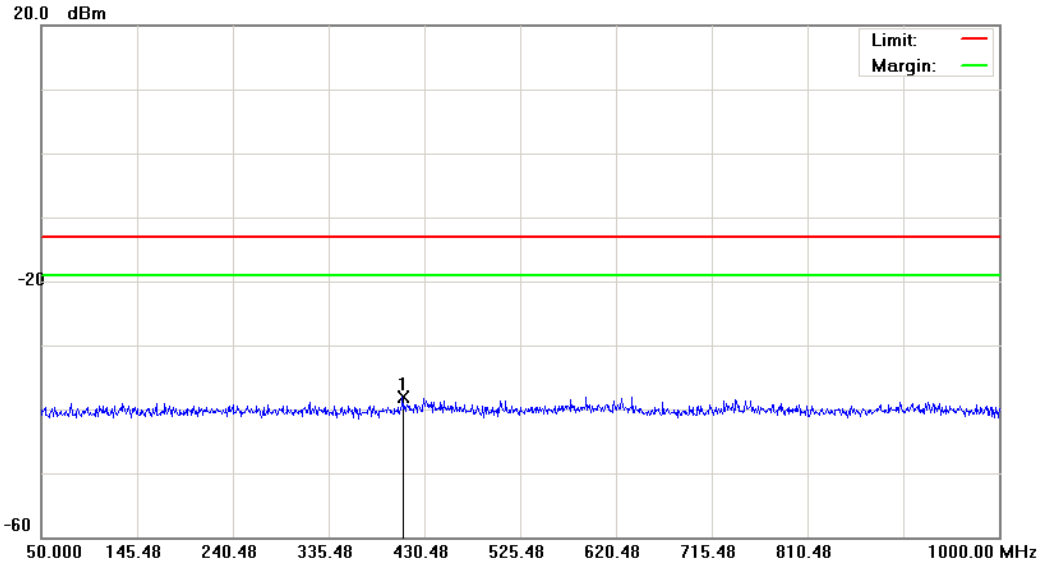
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7.7325	-62.24	13.28	-48.96	-13.00	-35.96	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9262) Data :#2 Date: 2011/6/27 Time: 下午 03:40:58



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

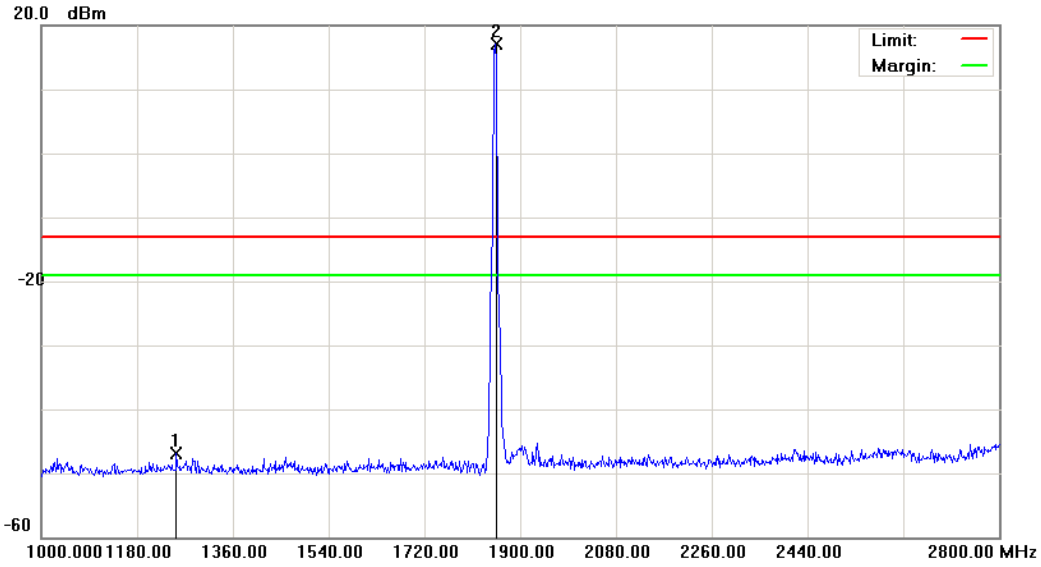
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	408.6250	-51.37	13.25	-38.12	-13.00	-25.12	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9262) Data :#3 Date: 2011/6/27 Time: 下午 04:17:08



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

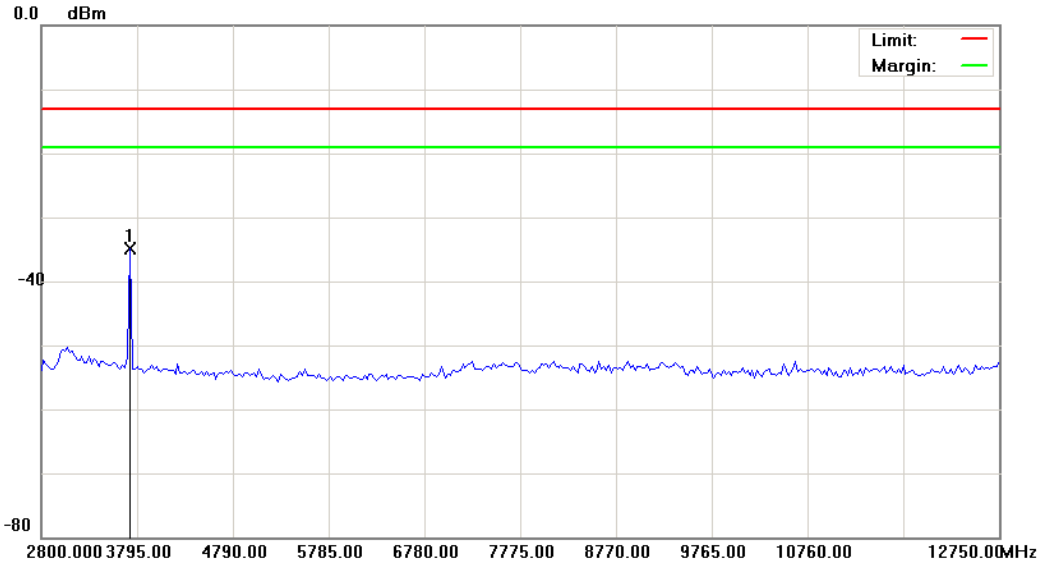
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1253.800	-50.95	4.13	-46.82	-13.00	-33.82	peak			
2	*	1854.100	12.90	4.28	17.18	-13.00	30.18	peak			TX

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9262) Data :#4 Date: 2011/6/28 Time: 上午 10:03:25



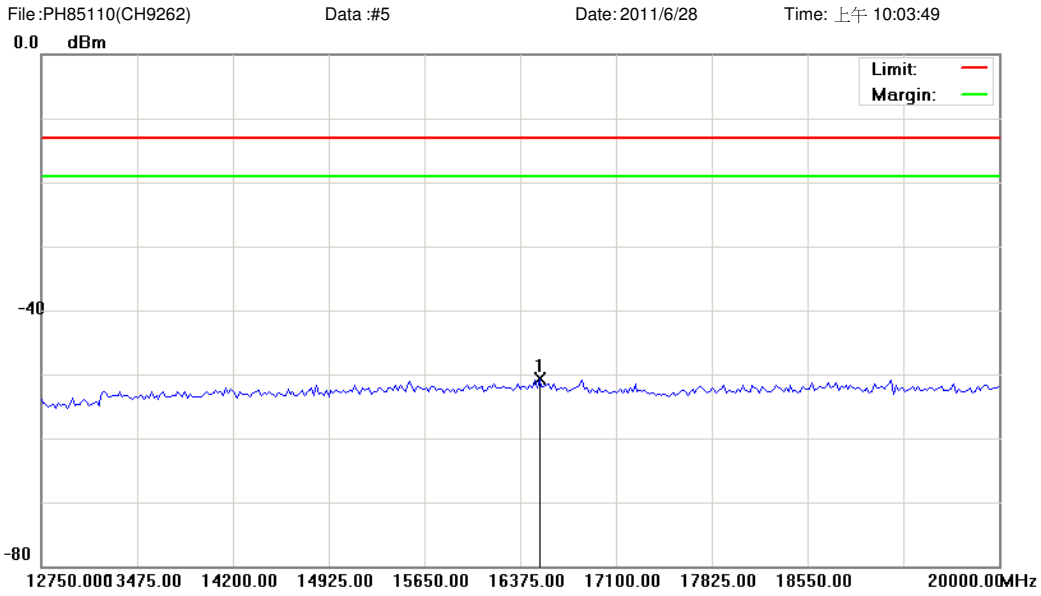
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3720.375	-39.75	4.88	-34.87	-13.00	-21.87	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

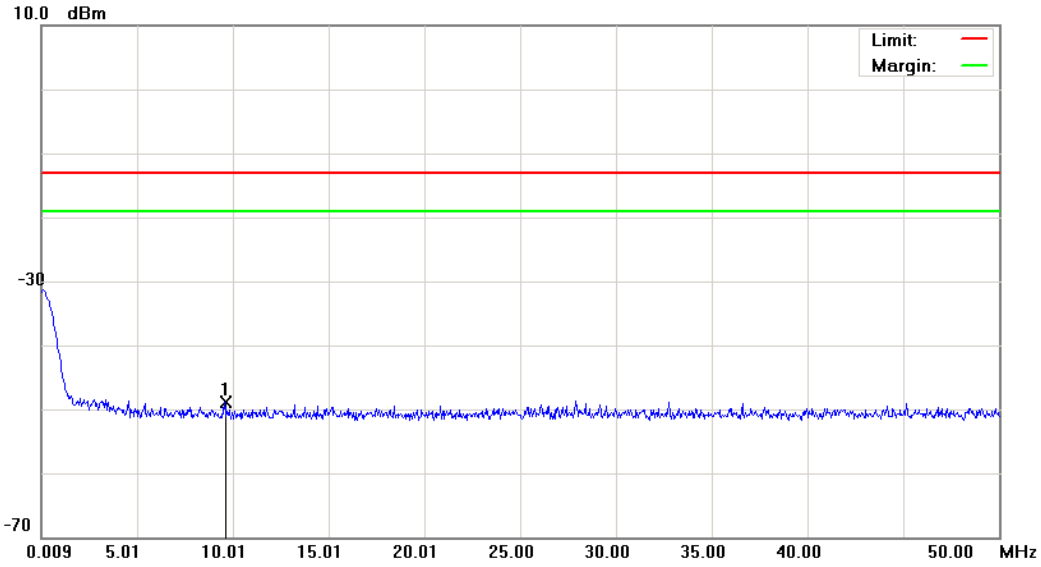
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	16520.000	-57.19	6.45	-50.74	-13.00	-37.74	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9400) Data :#1 Date: 2011/6/27 Time: 下午 03:41:43



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

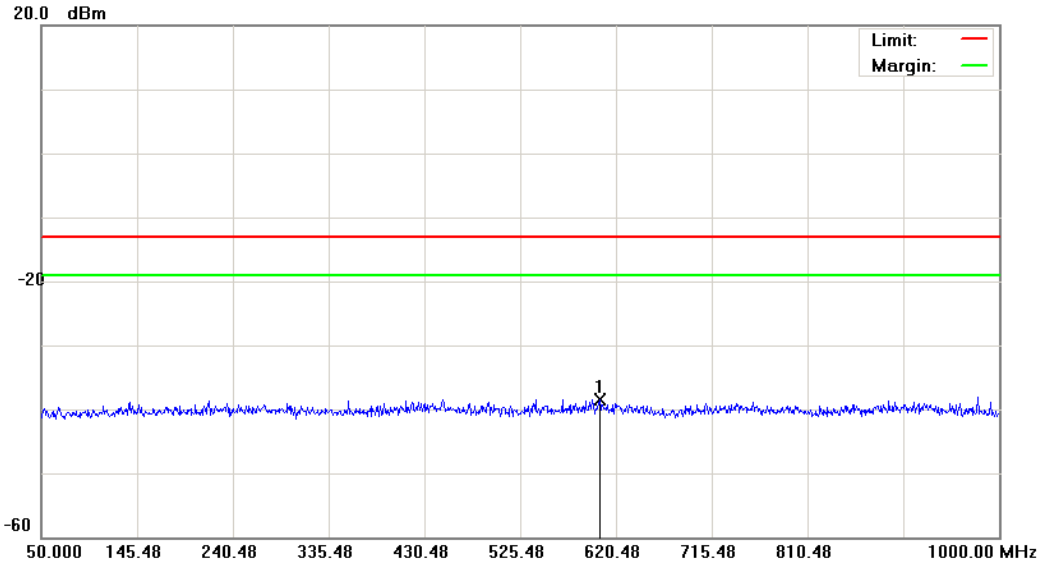
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	9.5823	-62.18	13.29	-48.89	-13.00	-35.89	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9400) Data :#2 Date: 2011/6/27 Time: 下午 03:42:07



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

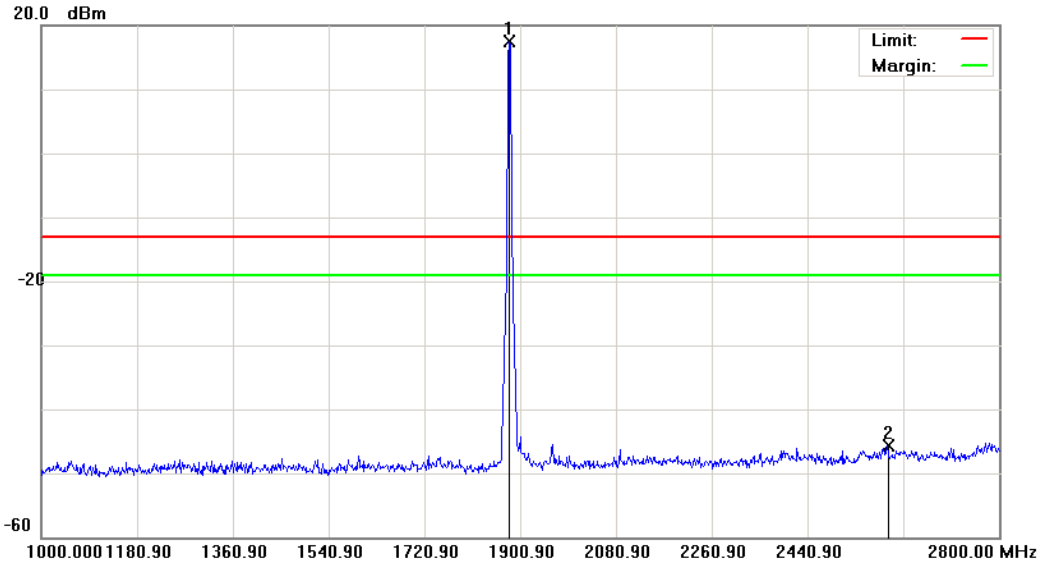
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	603.8500	-51.57	13.17	-38.40	-13.00	-25.40	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9400) Data :#3 Date: 2011/6/27 Time: 下午 04:24:54



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

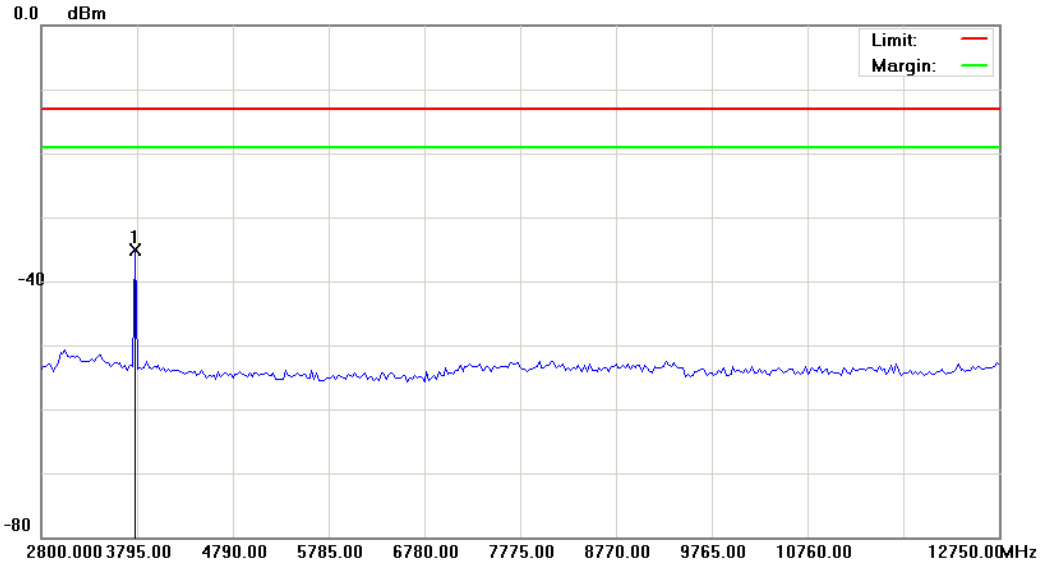
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1878.400	12.94	4.61	17.55	-13.00	30.55	peak			TX
2		2590.300	-51.09	5.40	-45.69	-13.00	-32.69	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9400) Data :#4 Date: 2011/6/28 Time: 上午 10:05:03



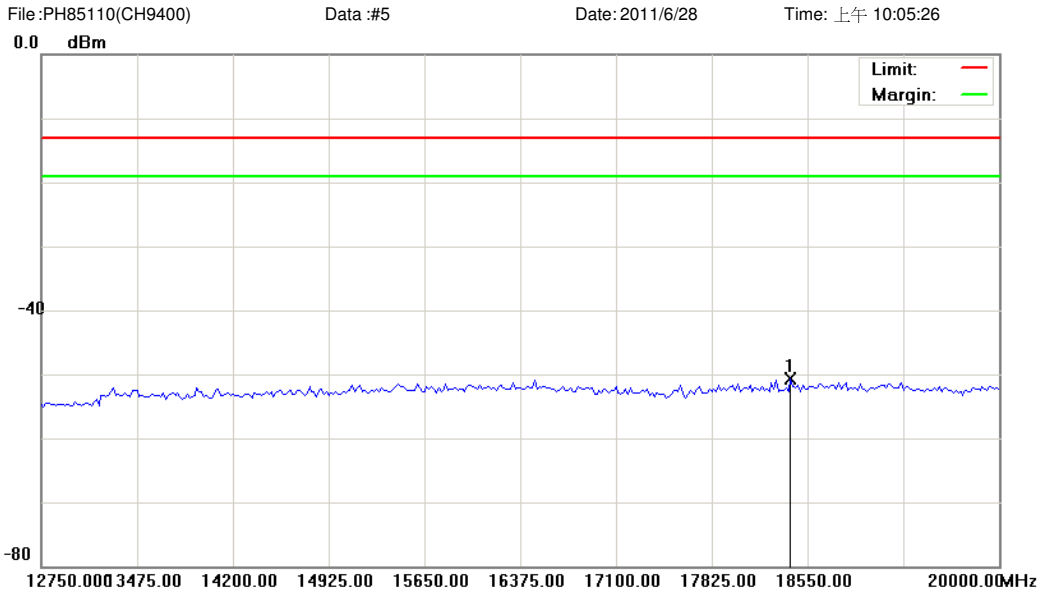
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3770.125	-39.95	4.93	-35.02	-13.00	-22.02	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

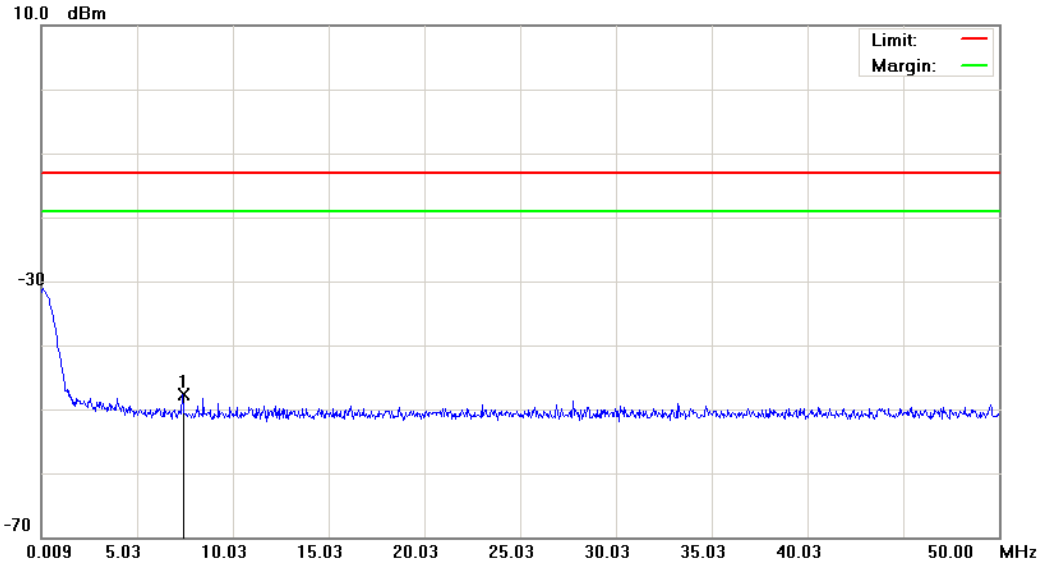
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	18423.125	-57.68	6.99	-50.69	-13.00	-37.69	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9538) Data :#1 Date: 2011/6/27 Time: 下午 03:43:58



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

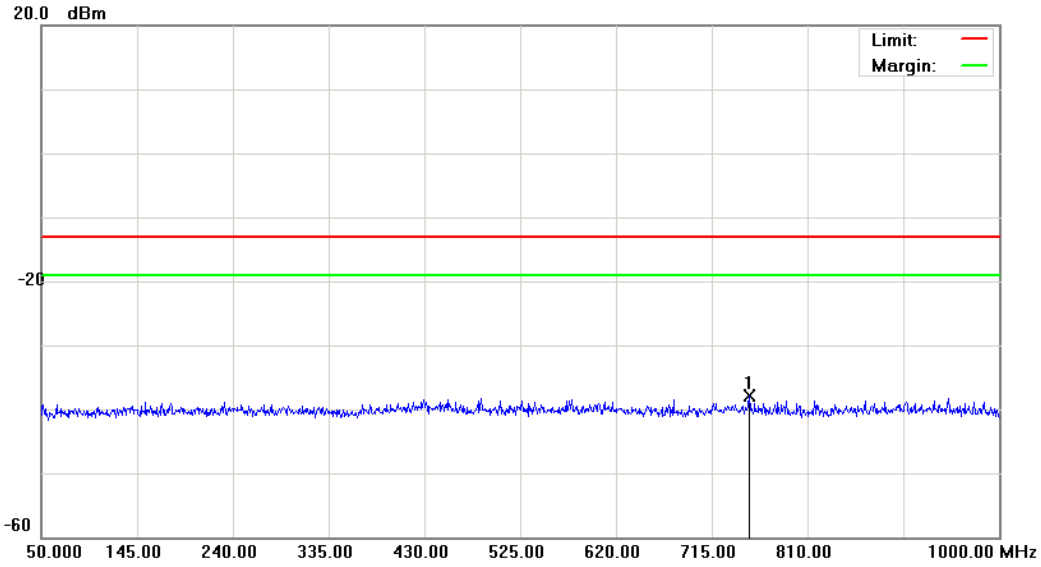
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7.3826	-61.06	13.29	-47.77	-13.00	-34.77	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9538) Data :#2 Date: 2011/6/27 Time: 下午 03:44:22



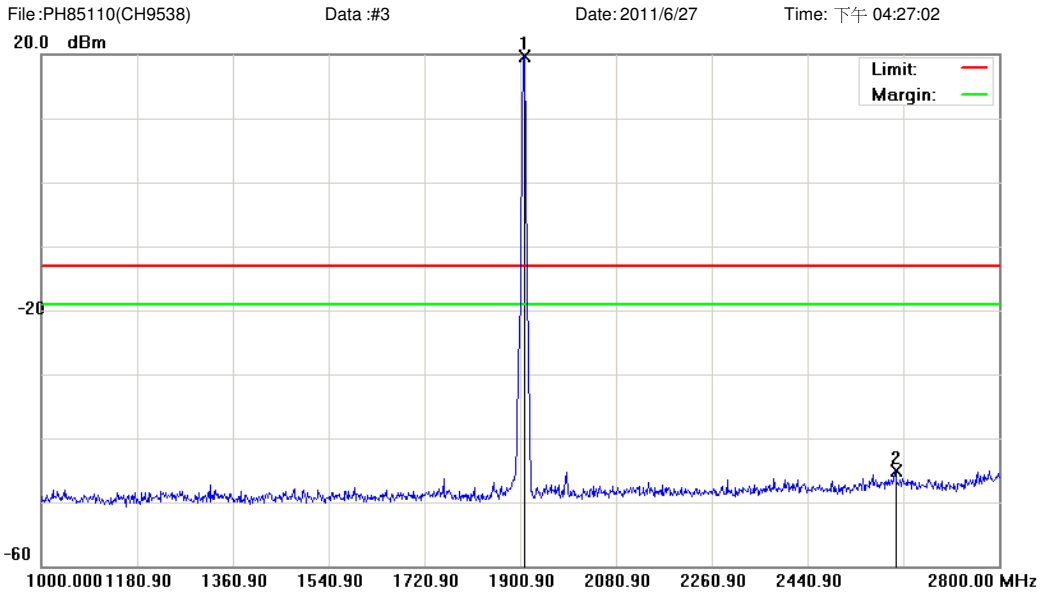
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	752.0500	-51.14	13.17	-37.97	-13.00	-24.97	peak			

*:Maximum data x:Over limit !:over margin



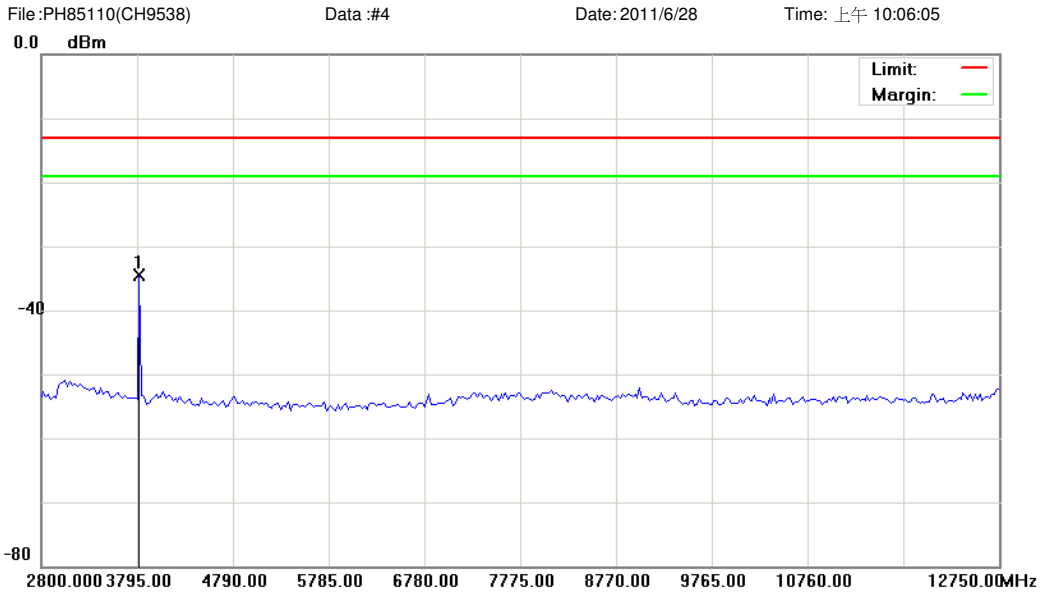
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1909.000	13.92	5.80	19.72	-13.00	32.72	peak			TX
2		2604.700	-50.51	5.45	-45.06	-13.00	-32.06	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

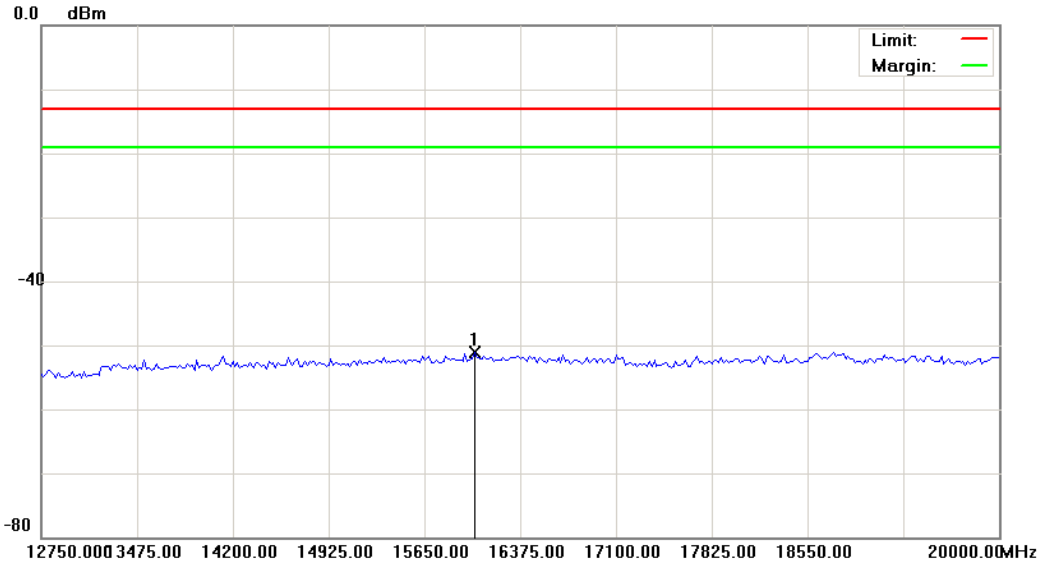
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3819.875	-39.50	4.91	-34.59	-13.00	-21.59	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH9538) Data :#5 Date: 2011/6/28 Time: 上午 10:06:28



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: WCDMA BAND II
Note:

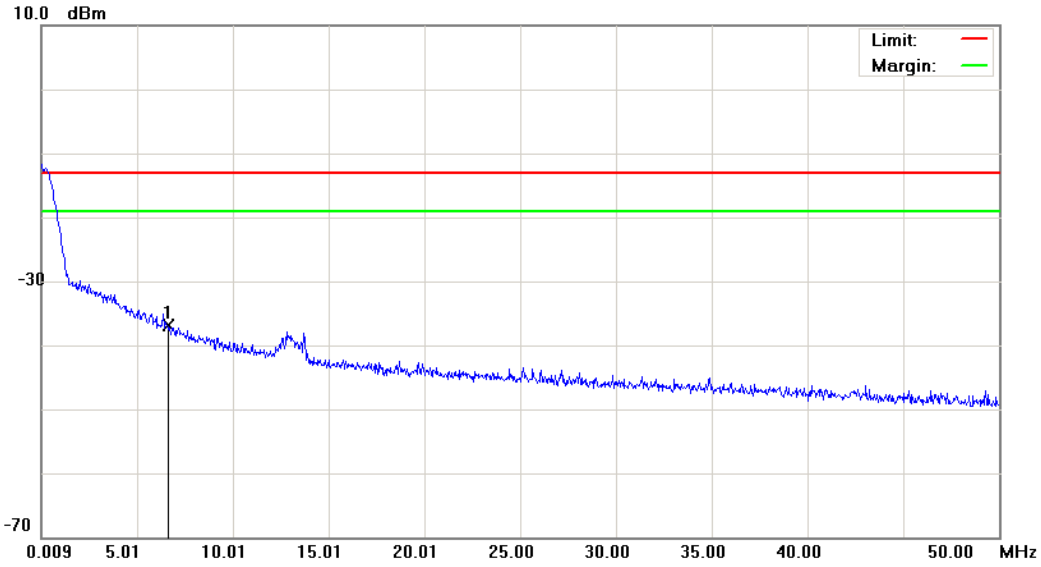
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	16030.625	-57.35	6.31	-51.04	-13.00	-38.04	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH4132) Data :#1 Date: 2011/6/27 Time: 下午 04:34:56



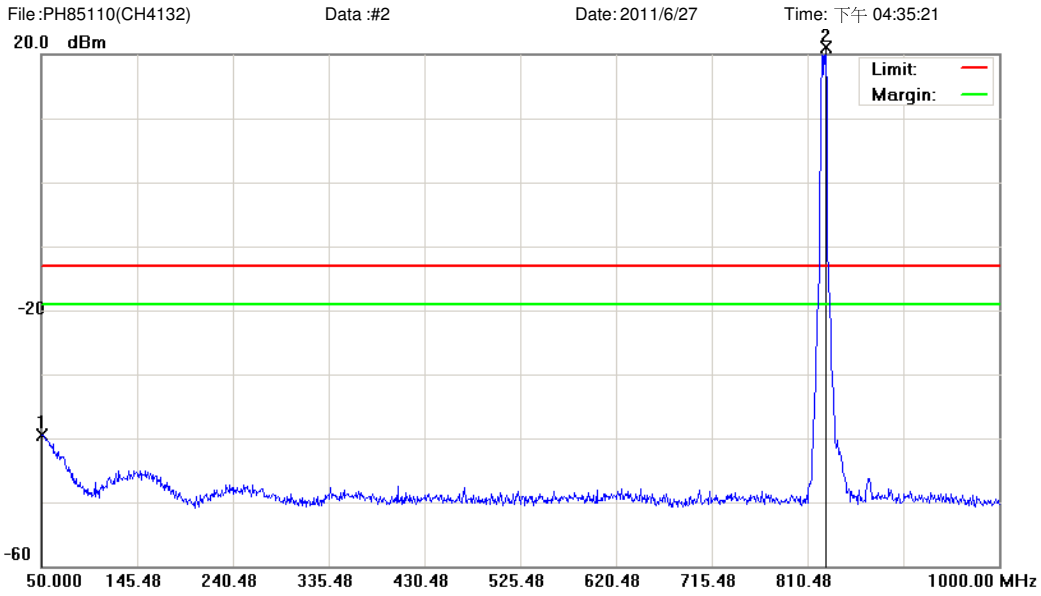
Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	6.5827	-63.23	26.41	-36.82	-13.00	-23.82	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

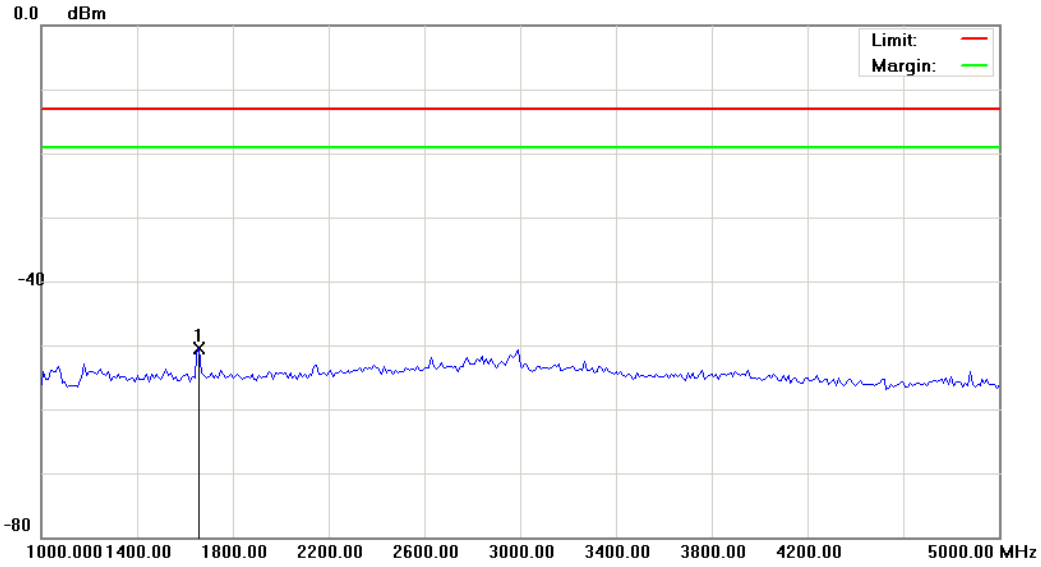
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		50.4750	-54.10	14.61	-39.49	-13.00	-26.49	peak			
2	*	827.5750	17.15	3.87	21.02	-13.00	34.02	peak			TX

*:Maximum data x:Over limit !:over margin

File :PH85110(CH4132) Data :#3 Date: 2011/6/28 Time: 上午 09:57:16



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

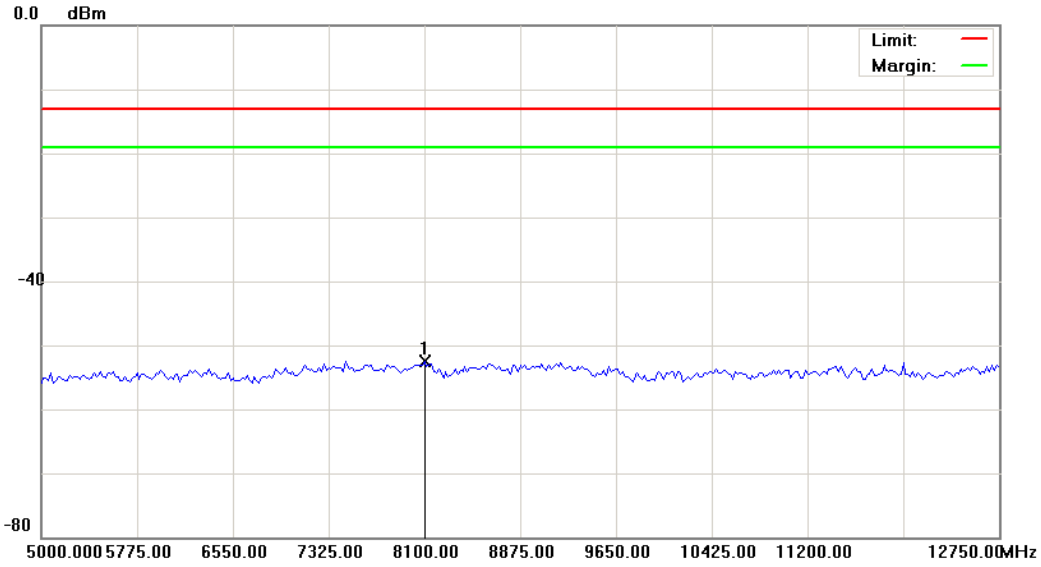
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1660.000	-54.99	4.46	-50.53	-13.00	-37.53	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH4132) Data :#4 Date: 2011/6/28 Time: 上午 09:57:39



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	8100.000	-58.12	5.71	-52.41	-13.00	-39.41	peak			

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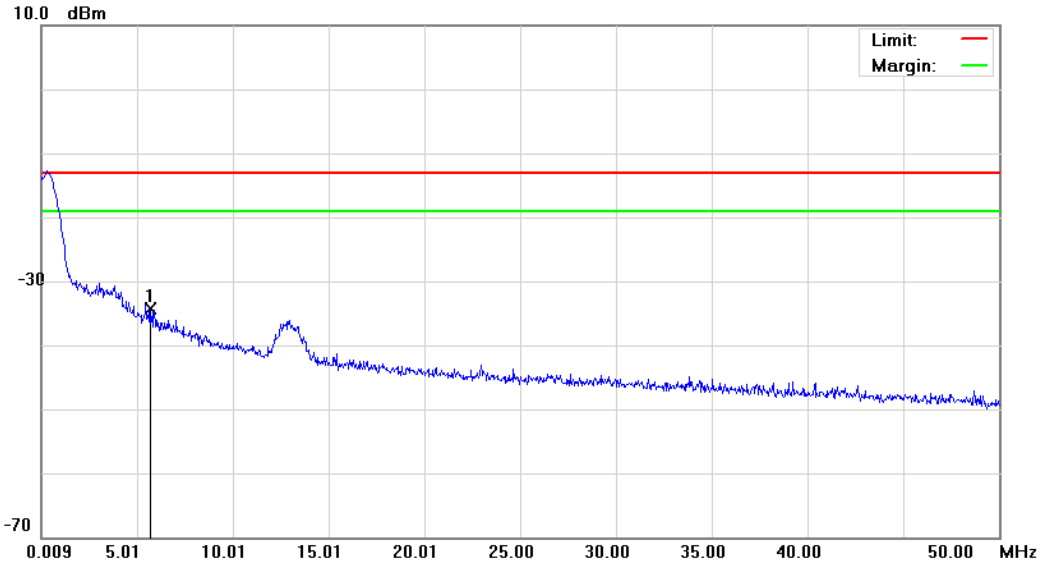
File :PH85110(CH4183) Data :#1 Date: 2011/6/28 Time: 上午 09:20:24



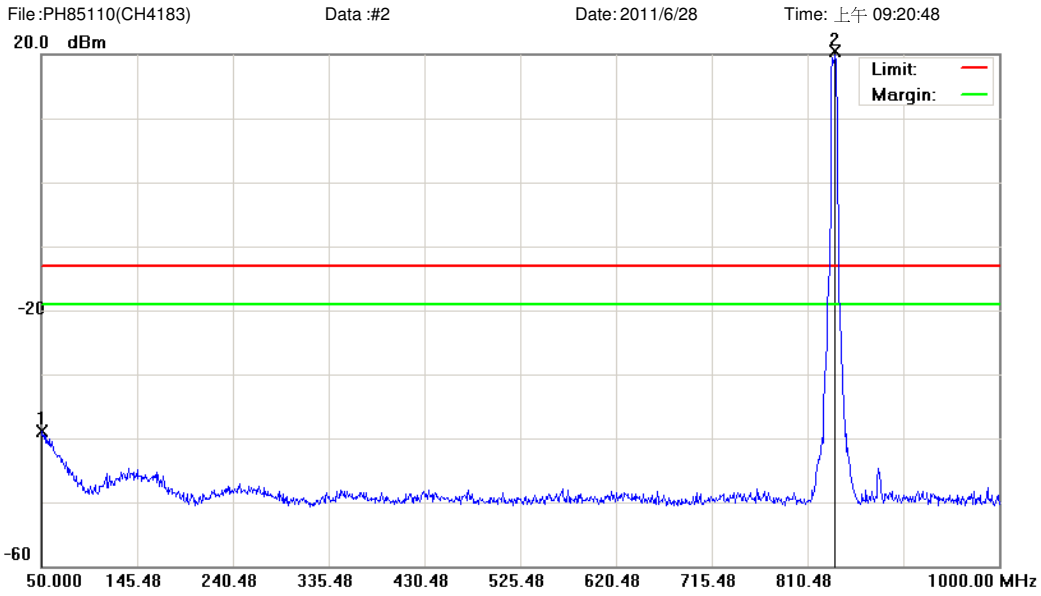
Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	5.6830	-61.87	27.48	-34.39	-13.00	-21.39	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

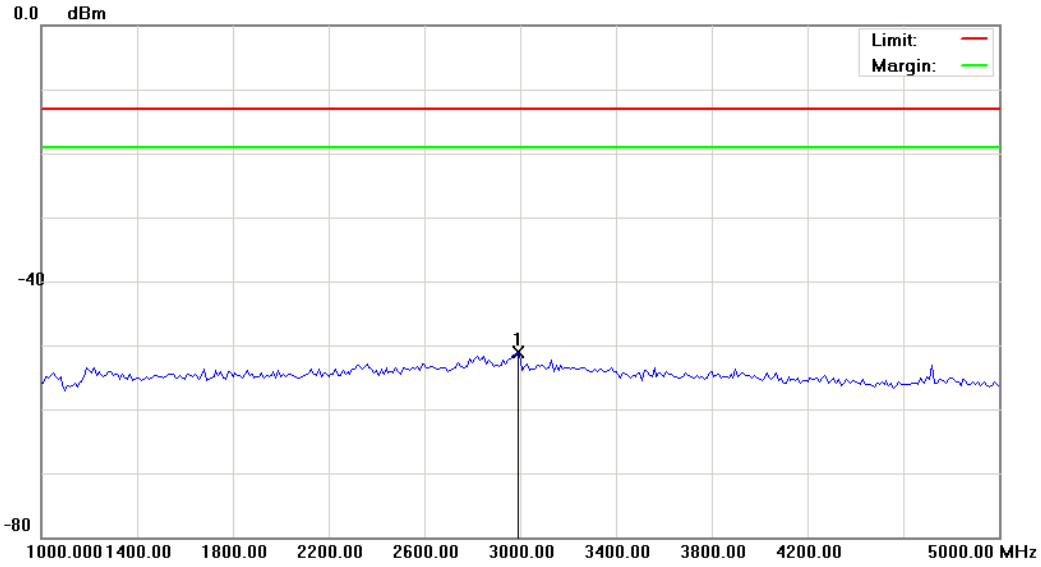
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		50.9500	-53.48	14.52	-38.96	-13.00	-25.96	peak			
2	*	837.5500	16.59	3.97	20.56	-13.00	33.56	peak			TX

*:Maximum data x:Over limit !:over margin

File:PH85110(CH4183) Data :#3 Date: 2011/6/28 Time: 上午 09:58:31



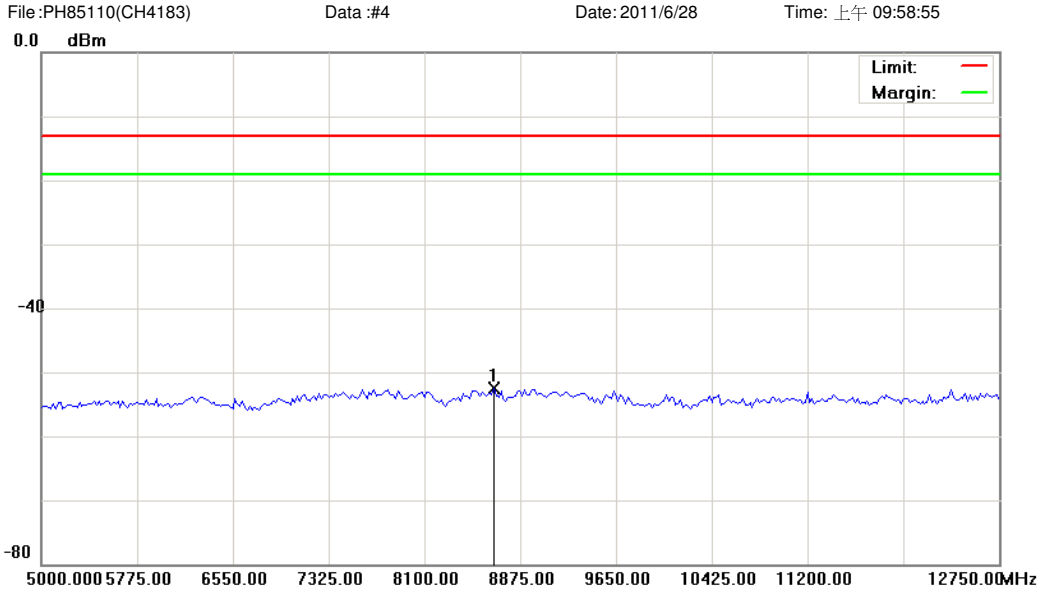
Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2990.000	-55.60	4.53	-51.07	-13.00	-38.07	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

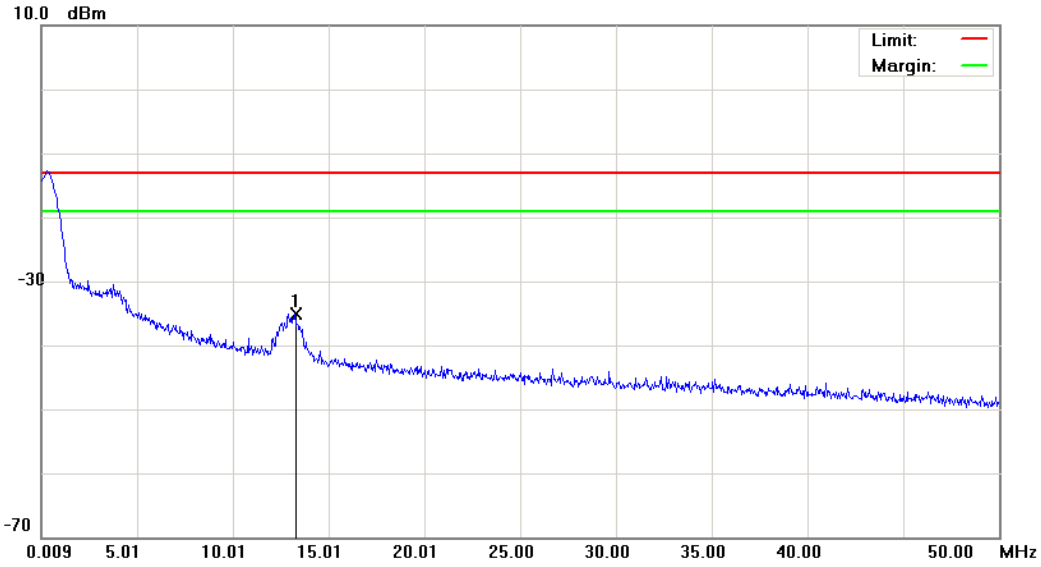
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	8661.875	-58.27	5.80	-52.47	-13.00	-39.47	peak			

*:Maximum data x:Over limit !:over margin

File :PH85110(CH4233) Data :#1 Date: 2011/6/28 Time: 上午 09:22:22



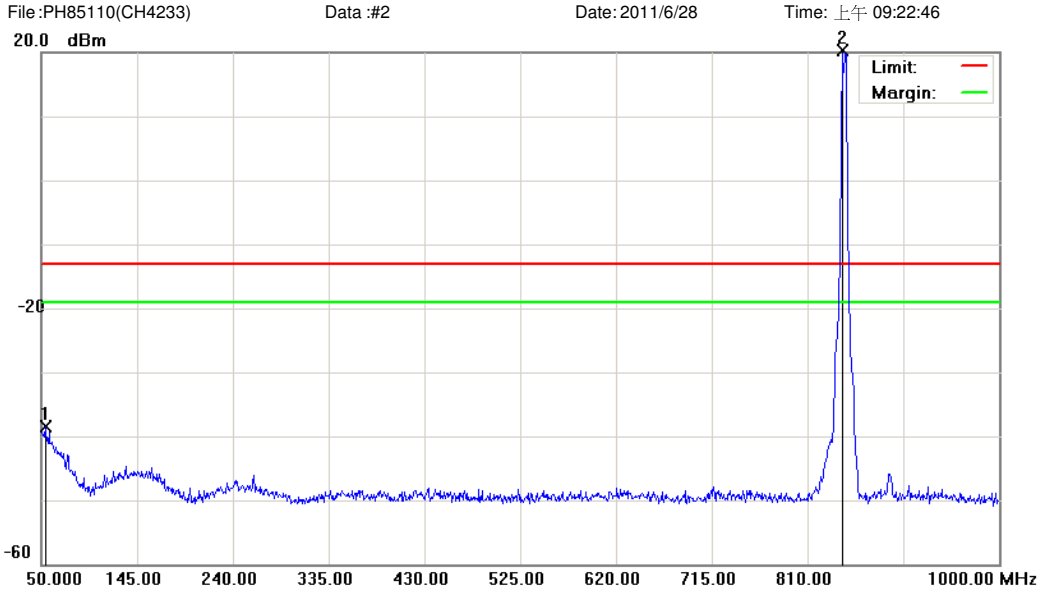
Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	13.2816	-56.90	21.87	-35.03	-13.00	-22.03	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

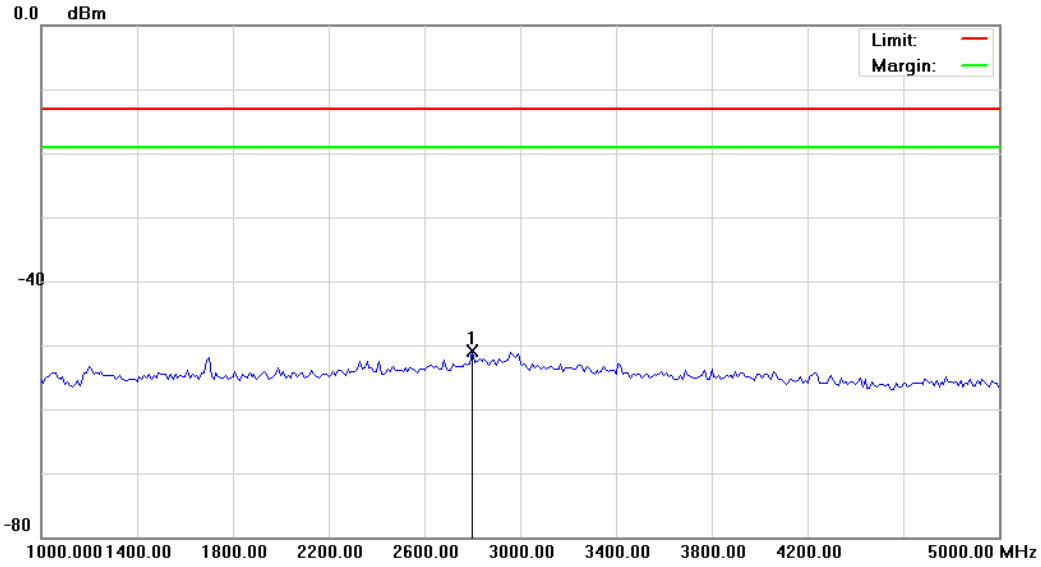
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		53.8000	-52.56	14.02	-38.54	-13.00	-25.54	peak			
2	*	845.1500	16.38	3.99	20.37	-13.00	33.37	peak			TX

*:Maximum data x:Over limit !:over margin

File :PH85110(CH4233) Data :#3 Date: 2011/6/28 Time: 上午 09:59:33



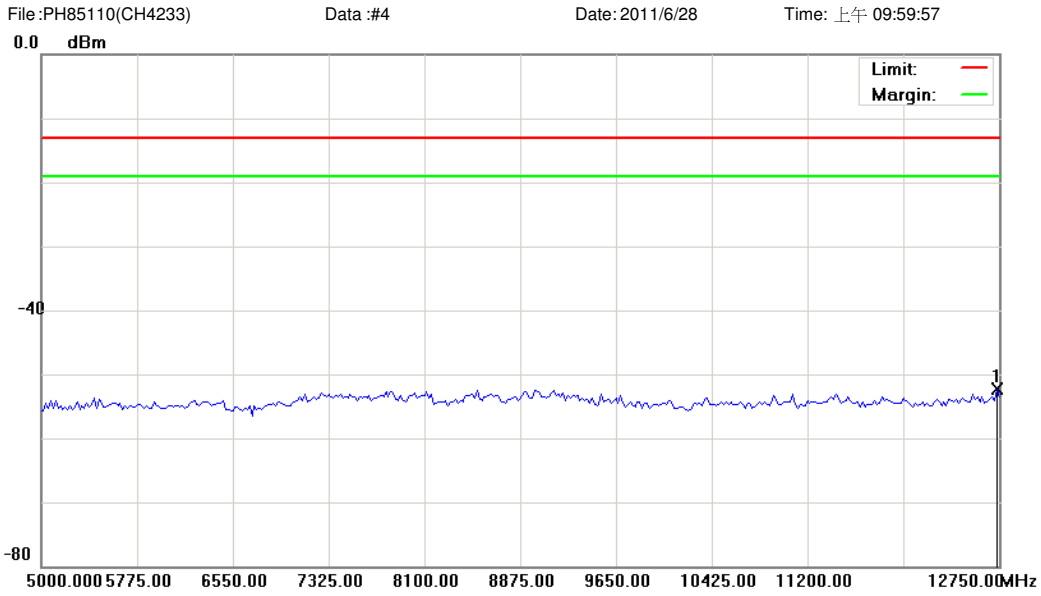
Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2800.000	-55.43	4.52	-50.91	-13.00	-37.91	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Smartphone
M/N: PH85110
Mode: HSDPA BAND V
Note:

Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 kHz VBW: 1000 kHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	12730.625	-56.90	4.62	-52.28	-13.00	-39.28	peak			

*:Maximum data x:Over limit !:over margin

6 Field Strength of Spurious Radiation Test

6.1. Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

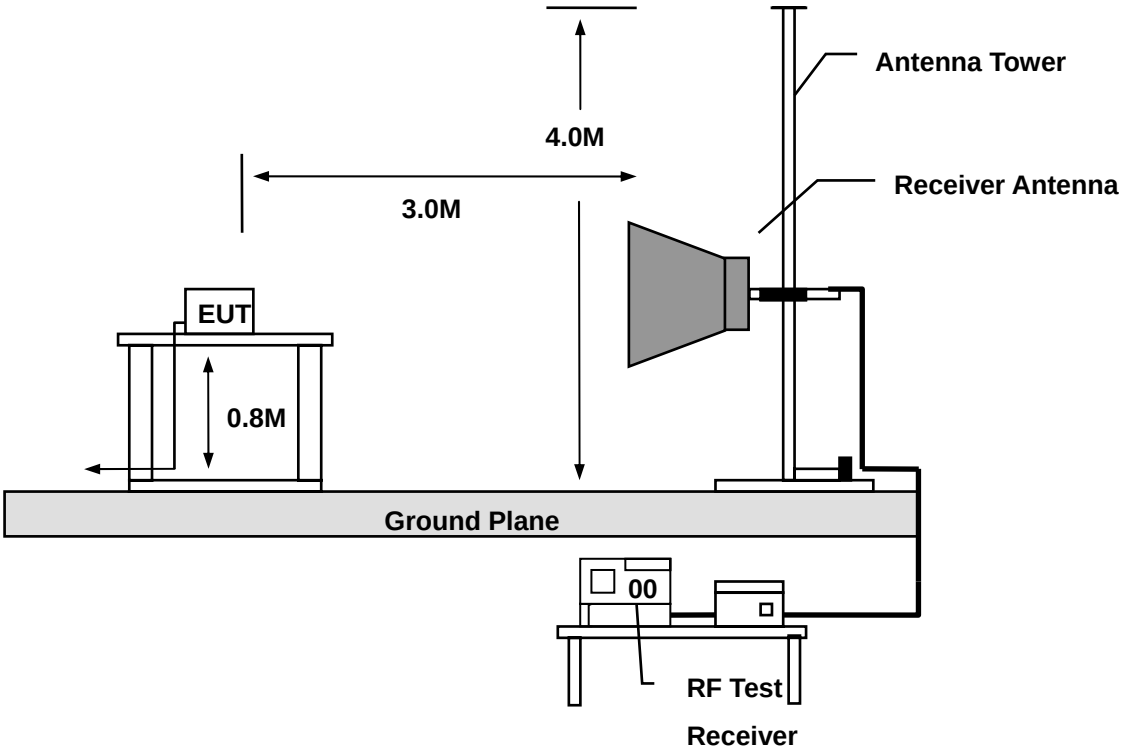
6.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/18/2011	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/18/2011	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/23/2011	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/23/2011	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/02/2010	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2011	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/28/2011	(1)
Test Site	ATL	TE01	888001	07/30/2010	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

6.3. Setup



6.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (mode VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

6.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

6.6. Test Result

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2011/07/05
Frequency:	824.2 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	45.0000	-62.72	8.77	-53.95	-13.00	-40.95	peak	H
2	135.0000	-63.12	-4.77	-67.89	-13.00	-54.89	peak	H
3	305.5000	-65.99	-1.97	-67.96	-13.00	-54.96	peak	H
4	372.0000	-73.78	0.48	-73.30	-13.00	-60.30	peak	H
5	372.0000	-73.78	0.48	-73.30	-13.00	-60.30	peak	H
6	597.5000	-80.63	7.90	-72.73	-13.00	-59.73	peak	H
7	1648.000	-57.32	10.39	-46.93	-13.00	-33.93	peak	H
8	2476.000	-65.94	11.92	-54.02	-13.00	-41.02	peak	H
9	6508.000	-70.29	25.98	-44.31	-13.00	-31.31	peak	H
1	132.5000	-75.86	13.02	-62.84	-13.00	-49.84	peak	V
2	311.0000	-70.98	1.79	-69.19	-13.00	-56.19	peak	V
3	477.5000	-79.03	2.31	-76.72	-13.00	-63.72	peak	V
4	580.0000	-77.50	5.92	-71.58	-13.00	-58.58	peak	V
5	683.5000	-80.55	9.67	-70.88	-13.00	-57.88	peak	V
6	779.5000	-78.30	11.28	-67.02	-13.00	-54.02	peak	V
7	1648.000	-57.62	6.70	-50.92	-13.00	-37.92	peak	V
8	2476.000	-59.93	12.00	-47.93	-13.00	-34.93	peak	V
9	5620.000	-70.25	23.28	-46.97	-13.00	-33.97	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2011/07/05
Frequency:	836.4 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	45.0000	-67.67	8.77	-58.90	-13.00	-45.90	peak	H
2	149.0000	-69.95	-2.04	-71.99	-13.00	-58.99	peak	H
3	266.5000	-69.98	-4.35	-74.33	-13.00	-61.33	peak	H
4	330.0000	-67.40	-0.74	-68.14	-13.00	-55.14	peak	H
5	494.0000	-79.39	6.60	-72.79	-13.00	-59.79	peak	H
6	671.5000	-79.35	7.09	-72.26	-13.00	-59.26	peak	H
7	4828.000	-70.21	18.87	-51.34	-13.00	-38.34	peak	H
8	7060.000	-72.13	27.85	-44.28	-13.00	-31.28	peak	H
9	8488.000	-71.99	28.70	-43.29	-13.00	-30.29	peak	H
1	161.0000	-82.47	11.75	-70.72	-13.00	-57.72	peak	V
2	294.5000	-72.55	2.22	-70.33	-13.00	-57.33	peak	V
3	412.0000	-76.84	1.33	-75.51	-13.00	-62.51	peak	V
4	591.0000	-76.53	6.75	-69.78	-13.00	-56.78	peak	V
5	734.5000	-79.69	10.60	-69.09	-13.00	-56.09	peak	V
6	769.0000	-76.99	11.11	-65.88	-13.00	-52.88	peak	V
7	4720.000	-70.98	22.60	-48.38	-13.00	-35.38	peak	V
8	6880.000	-70.68	25.38	-45.30	-13.00	-32.30	peak	V
9	9784.000	-71.50	29.66	-41.84	-13.00	-28.84	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2011/07/05
Frequency:	848.8 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	45.0000	-71.70	8.77	-62.93	-13.00	-49.93	peak	H
2	164.0000	-74.23	-1.68	-75.91	-13.00	-62.91	peak	H
3	336.0000	-69.12	-0.63	-69.75	-13.00	-56.75	peak	H
4	516.5000	-81.56	7.54	-74.02	-13.00	-61.02	peak	H
5	649.0000	-79.68	6.97	-72.71	-13.00	-59.71	peak	H
6	808.5000	-80.71	11.53	-69.18	-13.00	-56.18	peak	H
7	1696.000	-61.55	10.40	-51.15	-13.00	-38.15	peak	H
8	2548.000	-64.18	12.16	-52.02	-13.00	-39.02	peak	H
9	3316.000	-67.67	14.72	-52.95	-13.00	-39.95	peak	H
1	129.0000	-73.42	13.37	-60.05	-13.00	-47.05	peak	V
2	197.5000	-76.72	7.81	-68.91	-13.00	-55.91	peak	V
3	341.5000	-73.59	1.29	-72.30	-13.00	-59.30	peak	V
4	508.5000	-76.69	2.89	-73.80	-13.00	-60.80	peak	V
5	611.0000	-77.98	8.24	-69.74	-13.00	-56.74	peak	V
6	764.5000	-78.36	11.03	-67.33	-13.00	-54.33	peak	V
7	3088.000	-68.56	16.77	-51.79	-13.00	-38.79	peak	V
8	3448.000	-68.05	18.99	-49.06	-13.00	-36.06	peak	V
9	7564.000	-71.72	26.43	-45.29	-13.00	-32.29	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2011/07/04
Frequency:	1850.2 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	152.0000	-75.65	-1.11	-76.76	-13.00	-63.76	peak	H
2	244.0000	-73.41	-2.94	-76.35	-13.00	-63.35	peak	H
3	444.5000	-81.69	4.06	-77.63	-13.00	-64.63	peak	H
4	597.0000	-80.08	7.89	-72.19	-13.00	-59.19	peak	H
5	839.0000	-81.14	12.10	-69.04	-13.00	-56.04	peak	H
6	893.0000	-82.10	13.76	-68.34	-13.00	-55.34	peak	H
7	1852.000	-57.86	10.42	-47.44	-13.00	-34.44	peak	H
8	6472.000	-70.56	25.79	-44.77	-13.00	-31.77	peak	H
9	10108.000	-70.35	32.87	-37.48	-13.00	-24.48	peak	H
1	132.5000	-75.13	13.02	-62.11	-13.00	-49.11	peak	V
2	158.0000	-80.42	11.73	-68.69	-13.00	-55.69	peak	V
3	309.0000	-74.84	1.96	-72.88	-13.00	-59.88	peak	V
4	613.0000	-81.12	8.38	-72.74	-13.00	-59.74	peak	V
5	765.5000	-80.61	11.04	-69.57	-13.00	-56.57	peak	V
6	921.5000	-82.72	11.94	-70.78	-13.00	-57.78	peak	V
7	1852.000	-52.84	8.27	-44.57	-13.00	-31.57	peak	V
8	3700.000	-60.14	19.81	-40.33	-13.00	-27.33	peak	V
9	7372.000	-70.58	26.20	-44.38	-13.00	-31.38	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2011/07/04
Frequency:	1880.0 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	30.0000	-79.49	8.01	-71.48	-13.00	-58.48	peak	H
2	136.5000	-66.59	-4.77	-71.36	-13.00	-58.36	peak	H
3	299.0000	-69.68	-2.45	-72.13	-13.00	-59.13	peak	H
4	478.0000	-80.94	5.63	-75.31	-13.00	-62.31	peak	H
5	683.0000	-80.06	7.01	-73.05	-13.00	-60.05	peak	H
6	937.5000	-81.60	14.84	-66.76	-13.00	-53.76	peak	H
7	1876.000	-60.48	10.43	-50.05	-13.00	-37.05	peak	H
8	3760.000	-65.50	15.89	-49.61	-13.00	-36.61	peak	H
9	7000.000	-71.38	27.68	-43.70	-13.00	-30.70	peak	H
1	30.5000	-59.21	-9.64	-68.85	-13.00	-55.85	peak	V
2	129.5000	-73.50	13.88	-59.62	-13.00	-46.62	peak	V
3	223.0000	-77.86	4.36	-73.50	-13.00	-60.50	peak	V
4	473.0000	-81.23	2.16	-79.07	-13.00	-66.07	peak	V
5	775.0000	-81.04	11.20	-69.84	-13.00	-56.84	peak	V
6	937.5000	-80.72	12.62	-68.10	-13.00	-55.10	peak	V
7	1876.000	-53.40	8.46	-44.94	-13.00	-31.94	peak	V
8	3760.000	-64.38	19.98	-44.40	-13.00	-31.40	peak	V
9	7432.000	-70.47	26.29	-44.18	-13.00	-31.18	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2011/07/04
Frequency:	1909.8 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	130.0000	-72.95	-4.79	-77.74	-13.00	-64.74	peak	H
2	308.0000	-70.74	-1.79	-72.53	-13.00	-59.53	peak	H
3	330.5000	-70.40	-0.73	-71.13	-13.00	-58.13	peak	H
4	542.0000	-80.83	8.22	-72.61	-13.00	-59.61	peak	H
5	742.5000	-81.44	8.30	-73.14	-13.00	-60.14	peak	H
6	932.0000	-81.07	14.81	-66.26	-13.00	-53.26	peak	H
7	1912.000	-59.64	10.43	-49.21	-13.00	-36.21	peak	H
8	3820.000	-62.10	16.03	-46.07	-13.00	-33.07	peak	H
9	6448.000	-70.70	25.64	-45.06	-13.00	-32.06	peak	H
1	130.5000	-77.40	14.10	-63.30	-13.00	-50.30	peak	V
2	299.5000	-74.59	2.66	-71.93	-13.00	-58.93	peak	V
3	471.0000	-80.71	2.10	-78.61	-13.00	-65.61	peak	V
4	603.5000	-80.60	7.70	-72.90	-13.00	-59.90	peak	V
5	774.5000	-80.62	11.20	-69.42	-13.00	-56.42	peak	V
6	935.5000	-82.17	12.54	-69.63	-13.00	-56.63	peak	V
7	1912.000	-55.00	8.74	-46.26	-13.00	-33.26	peak	V
8	3820.000	-59.27	20.13	-39.14	-13.00	-26.14	peak	V
9	6868.000	-69.92	25.37	-44.55	-13.00	-31.55	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2011/07/05
Frequency:	1852.4 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	48.0000	-79.36	8.23	-71.13	-13.00	-58.13	peak	H
2	257.5000	-71.56	-4.31	-75.87	-13.00	-62.87	peak	H
3	425.0000	-81.19	3.55	-77.64	-13.00	-64.64	peak	H
4	613.5000	-80.06	7.77	-72.29	-13.00	-59.29	peak	H
5	731.0000	-81.53	7.88	-73.65	-13.00	-60.65	peak	H
6	955.5000	-81.73	14.83	-66.90	-13.00	-53.90	peak	H
7	5392.000	-70.99	21.29	-49.70	-13.00	-36.70	peak	H
8	7528.000	-70.44	29.13	-41.31	-13.00	-28.31	peak	H
9	8272.000	-71.31	29.19	-42.12	-13.00	-29.12	peak	H
1	91.5000	-70.11	-4.96	-75.07	-13.00	-62.07	peak	V
2	128.0000	-73.53	12.39	-61.14	-13.00	-48.14	peak	V
3	240.0000	-72.60	0.38	-72.22	-13.00	-59.22	peak	V
4	336.5000	-73.76	1.17	-72.59	-13.00	-59.59	peak	V
5	504.0000	-79.40	2.83	-76.57	-13.00	-63.57	peak	V
6	612.5000	-80.88	8.36	-72.52	-13.00	-59.52	peak	V
7	4780.000	-70.31	22.72	-47.59	-13.00	-34.59	peak	V
8	7084.000	-70.34	25.73	-44.61	-13.00	-31.61	peak	V
9	9568.000	-70.82	28.69	-42.13	-13.00	-29.13	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2011/07/05
Frequency:	1880.0 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	131.5000	-69.54	-4.78	-74.32	-13.00	-61.32	peak	H
2	272.5000	-70.92	-4.34	-75.26	-13.00	-62.26	peak	H
3	440.5000	-81.17	3.92	-77.25	-13.00	-64.25	peak	H
4	610.0000	-80.91	7.82	-73.09	-13.00	-60.09	peak	H
5	811.5000	-81.78	11.63	-70.15	-13.00	-57.15	peak	H
6	953.5000	-81.95	14.84	-67.11	-13.00	-54.11	peak	H
7	4096.000	-70.28	16.55	-53.73	-13.00	-40.73	peak	H
8	6844.000	-71.79	27.14	-44.65	-13.00	-31.65	peak	H
9	11716.000	-72.96	36.91	-36.05	-13.00	-23.05	peak	H
1	194.0000	-75.95	4.50	-71.45	-13.00	-58.45	peak	V
2	309.0000	-74.29	1.96	-72.33	-13.00	-59.33	peak	V
3	540.0000	-80.78	4.26	-76.52	-13.00	-63.52	peak	V
4	672.0000	-81.02	9.49	-71.53	-13.00	-58.53	peak	V
5	807.0000	-81.17	11.66	-69.51	-13.00	-56.51	peak	V
6	938.5000	-81.25	12.67	-68.58	-13.00	-55.58	peak	V
7	4636.000	-70.79	22.39	-48.40	-13.00	-35.40	peak	V
8	7264.000	-71.41	26.02	-45.39	-13.00	-32.39	peak	V
9	8008.000	-71.06	26.53	-44.53	-13.00	-31.53	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2011/07/05
Frequency:	1907.6 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	99.5000	-76.91	-1.70	-78.61	-13.00	-65.61	peak	H
2	199.5000	-79.31	2.50	-76.81	-13.00	-63.81	peak	H
3	331.0000	-70.03	-0.72	-70.75	-13.00	-57.75	peak	H
4	548.5000	-79.46	8.07	-71.39	-13.00	-58.39	peak	H
5	712.5000	-80.94	7.28	-73.66	-13.00	-60.66	peak	H
6	959.5000	-81.22	14.83	-66.39	-13.00	-53.39	peak	H
7	3772.000	-70.55	15.92	-54.63	-13.00	-41.63	peak	H
8	6628.000	-70.63	26.39	-44.24	-13.00	-31.24	peak	H
9	7456.000	-71.42	28.98	-42.44	-13.00	-29.44	peak	H
1	128.5000	-75.23	12.88	-62.35	-13.00	-49.35	peak	V
2	238.0000	-72.87	0.75	-72.12	-13.00	-59.12	peak	V
3	382.5000	-77.94	1.59	-76.35	-13.00	-63.35	peak	V
4	616.0000	-81.67	8.60	-73.07	-13.00	-60.07	peak	V
5	768.5000	-81.73	11.10	-70.63	-13.00	-57.63	peak	V
6	863.0000	-82.17	11.50	-70.67	-13.00	-57.67	peak	V
7	4360.000	-69.70	21.66	-48.04	-13.00	-35.04	peak	V
8	6664.000	-69.80	25.00	-44.80	-13.00	-31.80	peak	V
9	8260.000	-70.97	26.26	-44.71	-13.00	-31.71	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2011/07/05
Frequency:	826.4 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	42.0000	-82.02	9.28	-72.74	-13.00	-59.74	peak	H
2	133.5000	-66.72	-4.78	-71.50	-13.00	-58.50	peak	H
3	270.5000	-70.55	-4.33	-74.88	-13.00	-61.88	peak	H
4	311.0000	-70.67	-1.57	-72.24	-13.00	-59.24	peak	H
5	335.5000	-71.50	-0.64	-72.14	-13.00	-59.14	peak	H
6	597.5000	-79.42	7.90	-71.52	-13.00	-58.52	peak	H
7	1648.000	-48.17	10.39	-37.78	-13.00	-24.78	peak	H
8	5668.000	-70.52	22.12	-48.40	-13.00	-35.40	peak	H
9	7984.000	-71.26	29.78	-41.48	-13.00	-28.48	peak	H
1	129.0000	-75.53	13.37	-62.16	-13.00	-49.16	peak	V
2	164.0000	-81.53	8.89	-72.64	-13.00	-59.64	peak	V
3	314.0000	-75.59	1.53	-74.06	-13.00	-61.06	peak	V
4	460.0000	-80.01	1.71	-78.30	-13.00	-65.30	peak	V
5	624.5000	-81.04	8.83	-72.21	-13.00	-59.21	peak	V
6	725.0000	-80.92	10.77	-70.15	-13.00	-57.15	peak	V
7	1648.000	-57.08	6.70	-50.38	-13.00	-37.38	peak	V
8	5068.000	-71.14	23.29	-47.85	-13.00	-34.85	peak	V
9	9760.000	-71.06	29.54	-41.52	-13.00	-28.52	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2011/07/05
Frequency:	836.4 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	135.5000	-66.58	-4.77	-71.35	-13.00	-58.35	peak	H
2	291.0000	-69.05	-3.25	-72.30	-13.00	-59.30	peak	H
3	404.5000	-80.39	2.75	-77.64	-13.00	-64.64	peak	H
4	575.5000	-80.44	7.64	-72.80	-13.00	-59.80	peak	H
5	669.0000	-80.65	7.09	-73.56	-13.00	-60.56	peak	H
6	803.5000	-80.80	11.36	-69.44	-13.00	-56.44	peak	H
7	1672.000	-51.28	10.39	-40.89	-13.00	-27.89	peak	H
8	5860.000	-70.68	22.60	-48.08	-13.00	-35.08	peak	H
9	9736.000	-71.64	31.24	-40.40	-13.00	-27.40	peak	H
1	129.5000	-73.81	13.88	-59.93	-13.00	-46.93	peak	V
2	287.5000	-74.48	1.58	-72.90	-13.00	-59.90	peak	V
3	478.5000	-80.54	2.34	-78.20	-13.00	-65.20	peak	V
4	552.5000	-80.00	4.32	-75.68	-13.00	-62.68	peak	V
5	662.5000	-80.47	9.41	-71.06	-13.00	-58.06	peak	V
6	739.0000	-81.04	10.52	-70.52	-13.00	-57.52	peak	V
7	1672.000	-55.79	6.88	-48.91	-13.00	-35.91	peak	V
8	4108.000	-69.15	20.92	-48.23	-13.00	-35.23	peak	V
9	5008.000	-69.92	23.25	-46.67	-13.00	-33.67	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2011/07/05
Frequency:	846.4 MHz	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	131.5000	-67.27	-4.78	-72.05	-13.00	-59.05	peak	H
2	290.0000	-69.90	-3.35	-73.25	-13.00	-60.25	peak	H
3	372.5000	-77.73	0.51	-77.22	-13.00	-64.22	peak	H
4	539.0000	-81.19	8.24	-72.95	-13.00	-59.95	peak	H
5	650.0000	-80.82	6.99	-73.83	-13.00	-60.83	peak	H
6	790.0000	-81.23	10.72	-70.51	-13.00	-57.51	peak	H
7	1696.000	-50.46	10.40	-40.06	-13.00	-27.06	peak	H
8	6736.000	-71.22	26.76	-44.46	-13.00	-31.46	peak	H
9	10120.000	-70.74	32.91	-37.83	-13.00	-24.83	peak	H
1	129.0000	-71.84	13.37	-58.47	-13.00	-45.47	peak	V
2	144.0000	-75.68	8.51	-67.17	-13.00	-54.17	peak	V
3	206.0000	-80.84	9.44	-71.40	-13.00	-58.40	peak	V
4	453.0000	-80.44	1.61	-78.83	-13.00	-65.83	peak	V
5	592.0000	-81.67	6.84	-74.83	-13.00	-61.83	peak	V
6	672.5000	-79.86	9.50	-70.36	-13.00	-57.36	peak	V
7	1696.000	-51.59	7.07	-44.52	-13.00	-31.52	peak	V
8	4948.000	-70.66	23.12	-47.54	-13.00	-34.54	peak	V
9	7036.000	-71.16	25.66	-45.50	-13.00	-32.50	peak	V

7 Frequency Stability (Temperature Variation) Test

7.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

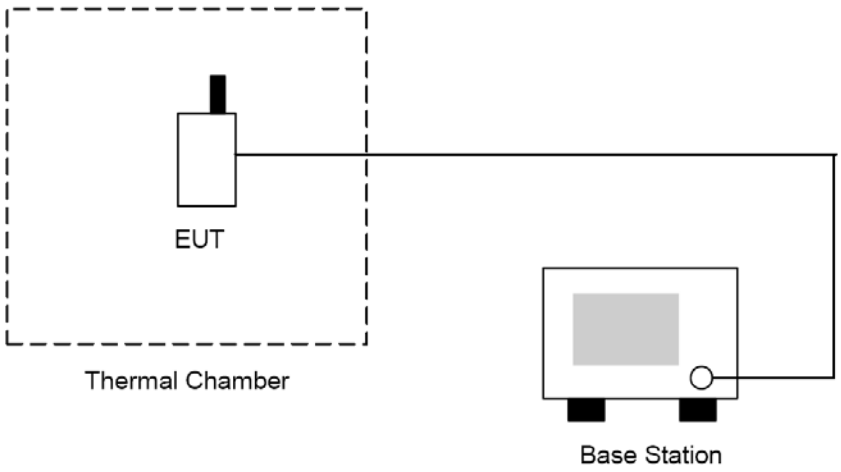
7.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/26/2010	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

7.3. Setup



7.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30℃ and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10℃ steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

7.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Temperature Variation) measurement is ± 10Hz.

7.6. Test Result

Model Number	PH85110			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 1: GSM 850 Link			
Date of Test	06/27/2011		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	8	0.010	±2.5	Pass
-20	10	0.012	±2.5	Pass
-10	11	0.013	±2.5	Pass
0	10	0.012	±2.5	Pass
10	9	0.011	±2.5	Pass
20	8	0.010	±2.5	Pass
30	11	0.013	±2.5	Pass
40	9	0.011	±2.5	Pass
50	11	0.013	±2.5	Pass

Model Number	PH85110			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 2: GSM 1900 Link			
Date of Test	06/27/2011		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	13	0.007	±2.5	Pass
-20	15	0.008	±2.5	Pass
-10	14	0.007	±2.5	Pass
0	10	0.005	±2.5	Pass
10	9	0.005	±2.5	Pass
20	9	0.005	±2.5	Pass
30	11	0.006	±2.5	Pass
40	9	0.005	±2.5	Pass
50	13	0.007	±2.5	Pass

Model Number	PH85110			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 3: WCDMA Band II Link			
Date of Test	06/27/2011		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	20	0.011	±2.5	Pass
-20	12	0.006	±2.5	Pass
-10	14	0.007	±2.5	Pass
0	11	0.006	±2.5	Pass
10	19	0.010	±2.5	Pass
20	22	0.012	±2.5	Pass
30	13	0.007	±2.5	Pass
40	15	0.008	±2.5	Pass
50	18	0.010	±2.5	Pass

Model Number	PH85110			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 4: HSDPA Band V Link			
Date of Test	06/27/2011		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	9	0.011	±2.5	Pass
-20	-8	-0.010	±2.5	Pass
-10	10	0.012	±2.5	Pass
0	9	0.011	±2.5	Pass
10	-11	-0.013	±2.5	Pass
20	10	0.012	±2.5	Pass
30	9	0.011	±2.5	Pass
40	8	0.010	±2.5	Pass
50	10	0.012	±2.5	Pass

8 Frequency Stability (Voltage Variation) Test

8.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

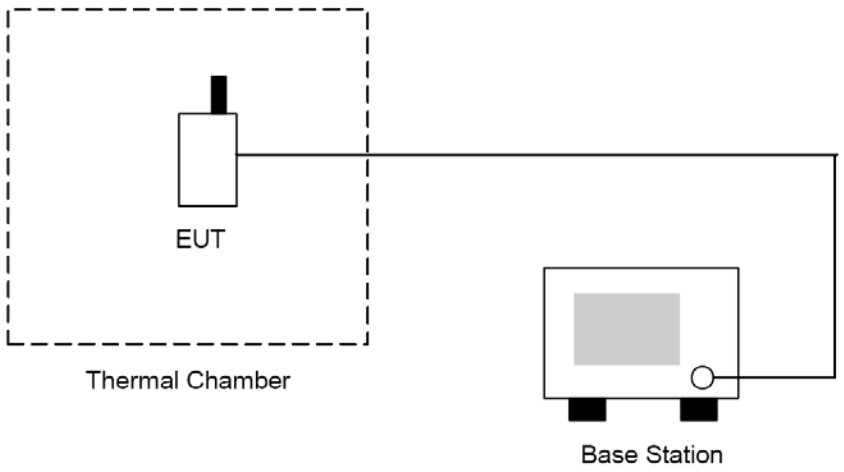
8.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/26/2010	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

8.3. Setup



8.4. Test Procedure

1. The EUT was placed in a temperature chamber at 25±5℃ and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

8.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Voltage Variation) measurement is ± 10Hz.

8.6. Test Result

Model Number	PH85110				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	06/27/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	10	0.012	±2.5	Pass
Normal	3.70	-7	-0.008	±2.5	Pass
Battery cut-off point	3.40	9	0.011	±2.5	Pass

Model Number	PH85110				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	06/27/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	-9	-0.005	±2.5	Pass
Normal	3.70	8	0.004	±2.5	Pass
Battery cut-off point	3.40	10	0.005	±2.5	Pass

Model Number	PH85110				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	06/27/2011		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	16	0.009	±2.5	Pass
Normal	3.70	17	0.009	±2.5	Pass
Battery cut-off point	3.40	20	0.011	±2.5	Pass

Model Number	PH85110				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 4: HSDPA Band V Link				
Date of Test	06/27/2011		Test Site	TE02	

Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.20	10	0.012	±2.5	Pass
Normal	3.70	-9	-0.011	±2.5	Pass
Battery cut-off point	3.40	13	0.016	±2.5	Pass

9 AC Power Conducted Emissions Test

9.1. Limit

Frequency range (MHz)	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

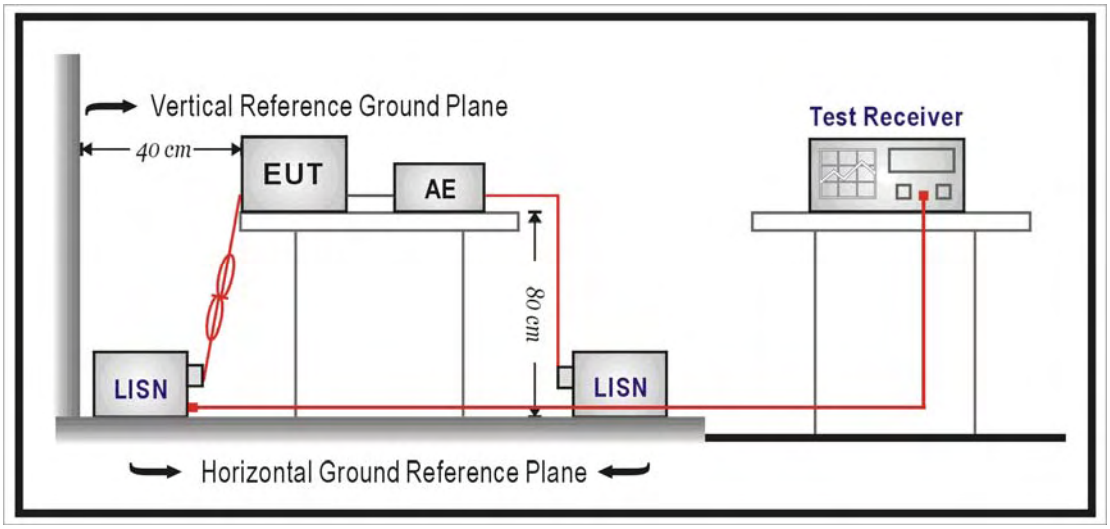
9.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/30/2011	(1)
LISN	R&S	ENV216	101040	03/04/2011	(1)
LISN	R&S	ENV216	101041	03/04/2011	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

9.3. Setup



9.4. Test Procedure

The measurement is made according to FCC rules15.207:

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

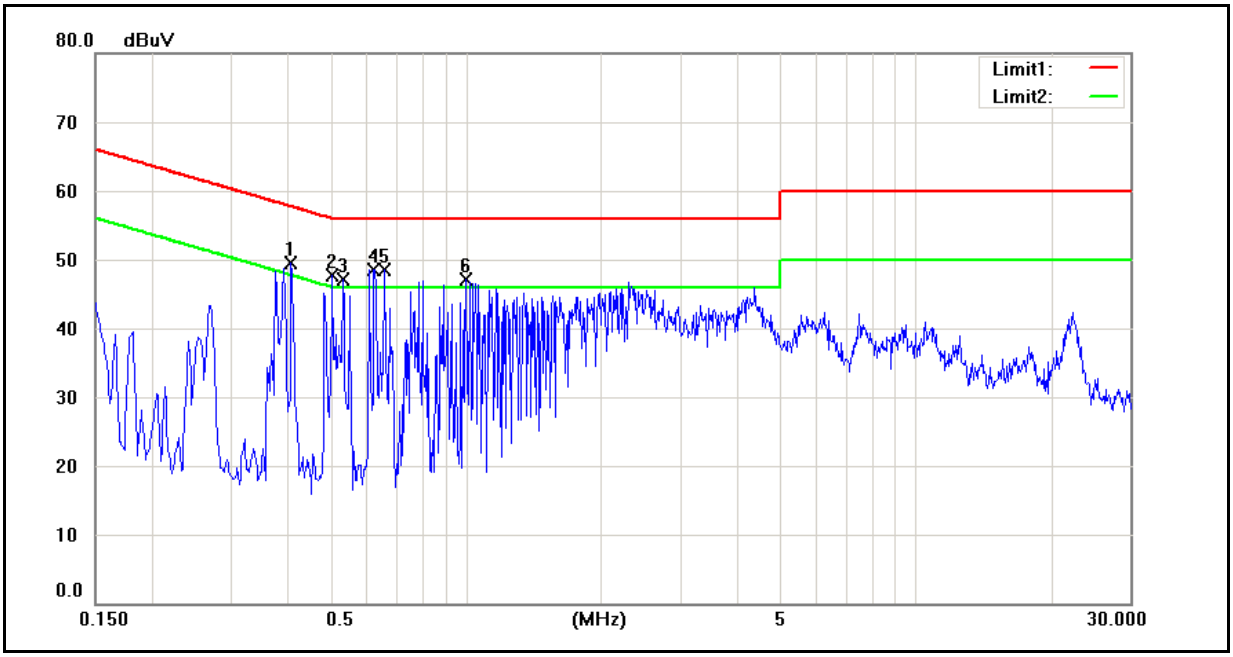
The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in section 10.6.

9.5. Uncertainty

The measurement uncertainty is defined as for AC power conducted emission measurement is ± 2.24 dB.

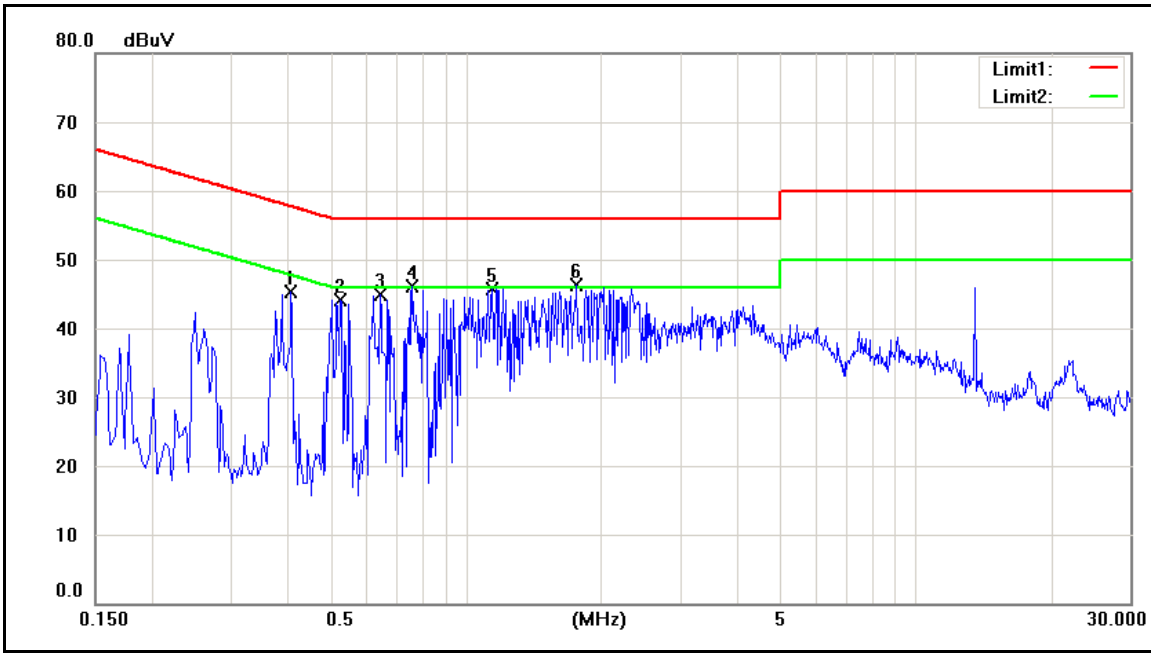
9.6. Test Result

Standard:	FCC Part 22H	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2011/07/20
		Test By:	Gary Wu
Description:			



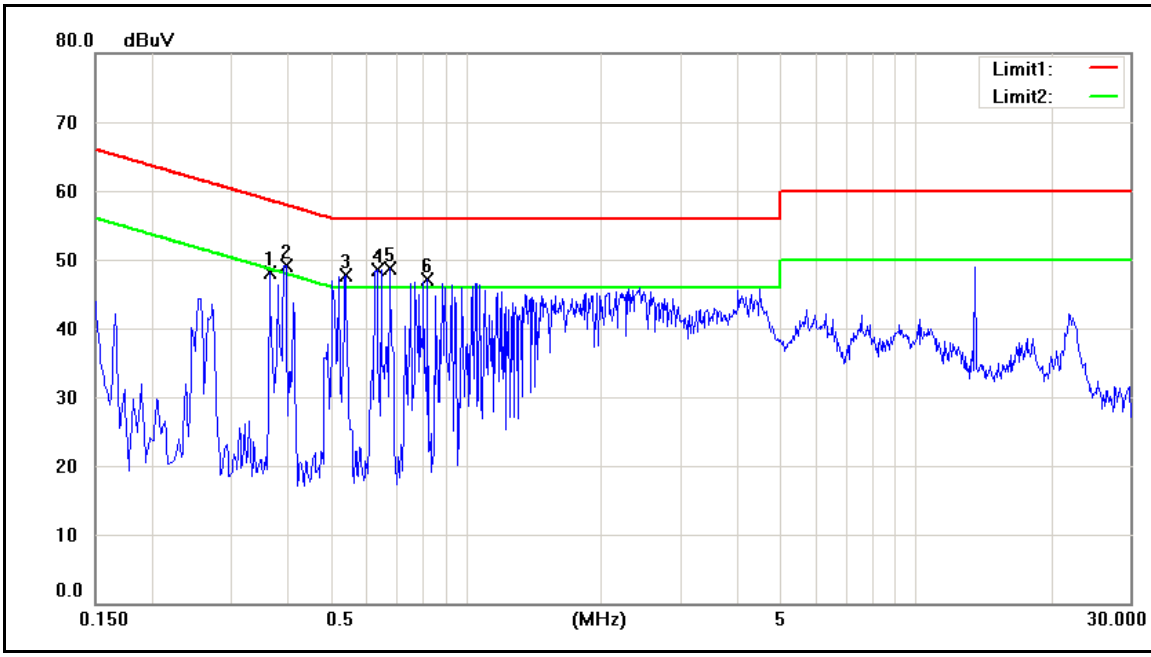
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.4100	35.20	12.52	9.97	45.17	22.49	57.65	47.65	-12.48	-25.16	Pass
2	0.5060	33.54	13.01	9.93	43.47	22.94	56.00	46.00	-12.53	-23.06	Pass
3	0.5340	33.07	11.70	9.92	42.99	21.62	56.00	46.00	-13.01	-24.38	Pass
4	0.6260	33.86	11.59	9.88	43.74	21.47	56.00	46.00	-12.26	-24.53	Pass
5	0.6580	33.72	11.41	9.86	43.58	21.27	56.00	46.00	-12.42	-24.73	Pass
6	1.0020	31.18	9.57	9.73	40.91	19.30	56.00	46.00	-15.09	-26.70	Pass

Standard:	FCC Part 22H	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2011/07/20
		Test By:	Gary Wu
Description:			



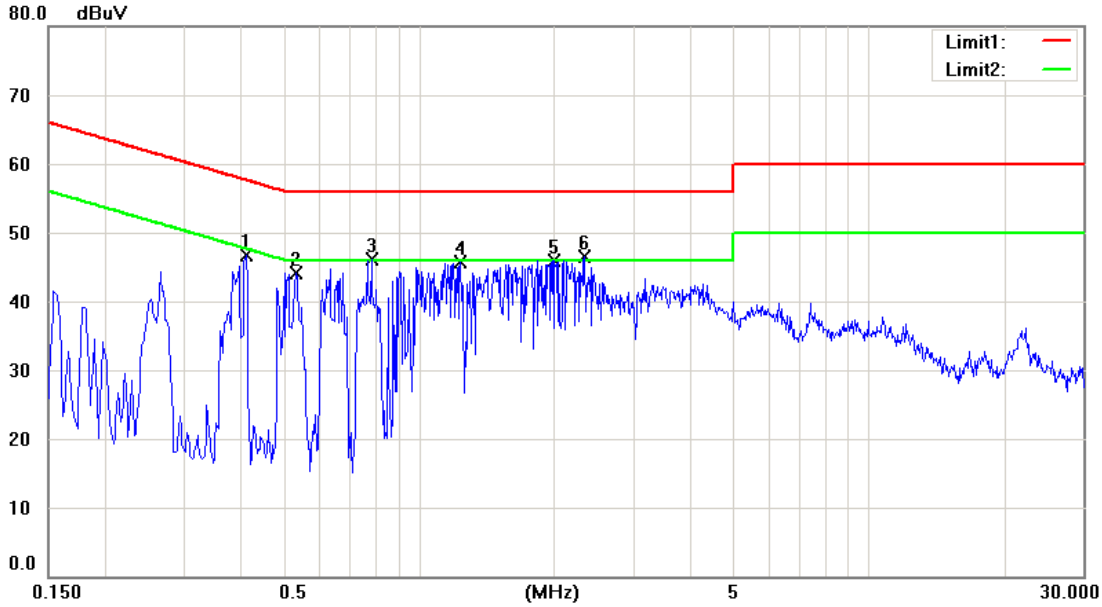
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.4100	31.91	12.76	10.05	41.96	22.81	57.65	47.65	-15.69	-24.84	Pass
2	0.5260	30.69	14.02	10.00	40.69	24.02	56.00	46.00	-15.31	-21.98	Pass
3	0.6460	30.91	13.71	9.95	40.86	23.66	56.00	46.00	-15.14	-22.34	Pass
4	0.7620	31.10	13.78	9.90	41.00	23.68	56.00	46.00	-15.00	-22.32	Pass
5	1.1420	29.80	12.24	9.79	39.59	22.03	56.00	46.00	-16.41	-23.97	Pass
6	1.7700	29.38	13.46	9.74	39.12	23.20	56.00	46.00	-16.88	-22.80	Pass

Standard:	FCC Part 24E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2011/06/29
		Test By:	Gary Wu
Description:			



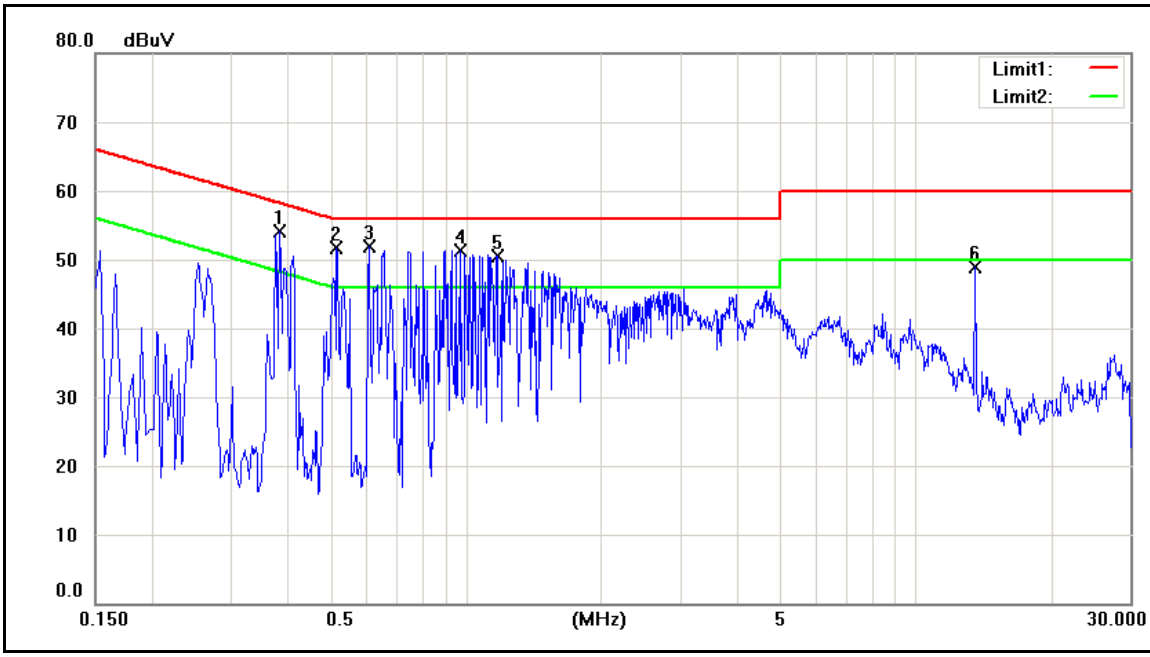
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.3660	33.13	10.95	9.98	43.11	20.93	58.59	48.59	-15.48	-27.66	Pass
2	0.3980	35.18	14.29	9.97	45.15	24.26	57.90	47.90	-12.75	-23.64	Pass
3	0.5420	32.94	11.08	9.91	42.85	20.99	56.00	46.00	-13.15	-25.01	Pass
4	0.6340	33.88	10.99	9.87	43.75	20.86	56.00	46.00	-12.25	-25.14	Pass
5	0.6780	33.42	11.26	9.86	43.28	21.12	56.00	46.00	-12.72	-24.88	Pass
6	0.8260	30.43	7.25	9.80	40.23	17.05	56.00	46.00	-15.77	-28.95	Pass

Standard:	FCC Part 24E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2011/06/29
		Test By:	Gary Wu
Description:			



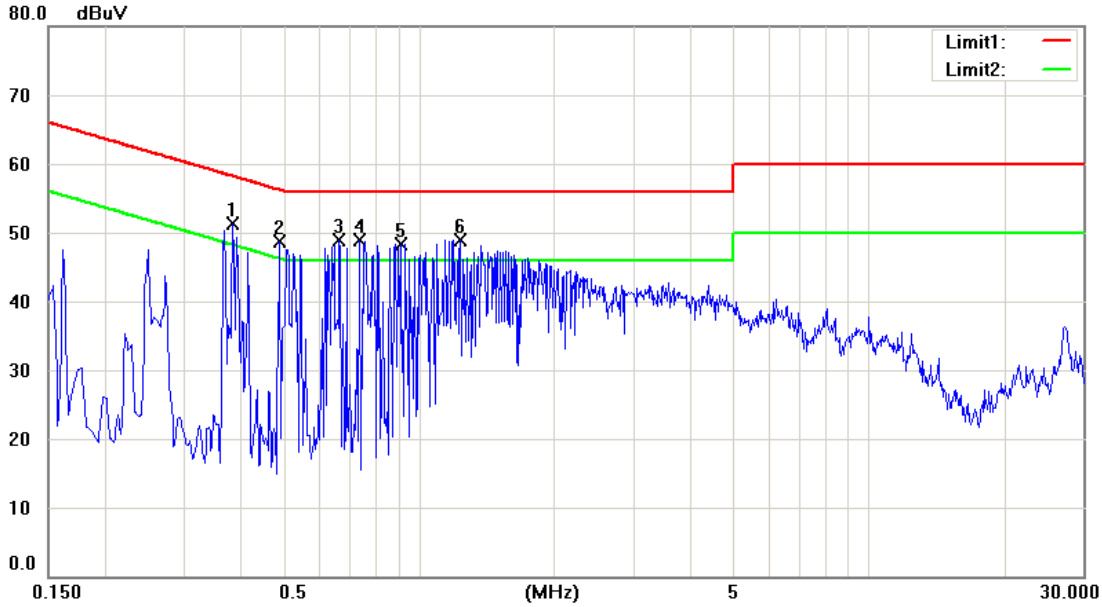
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.4140	30.33	9.72	10.05	40.38	19.77	57.57	47.57	-17.19	-27.80	Pass
2	0.5340	30.64	13.23	10.00	40.64	23.23	56.00	46.00	-15.36	-22.77	Pass
3	0.7860	30.76	13.45	9.89	40.65	23.34	56.00	46.00	-15.35	-22.66	Pass
4	1.2380	30.60	14.21	9.78	40.38	23.99	56.00	46.00	-15.62	-22.01	Pass
5	2.0060	29.74	13.99	9.74	39.48	23.73	56.00	46.00	-16.52	-22.27	Pass
6	2.3340	28.55	14.58	9.78	38.33	24.36	56.00	46.00	-17.67	-21.64	Pass

Standard:	FCC Part 24E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2011/07/20
		Test By:	Gary Wu
Description:			



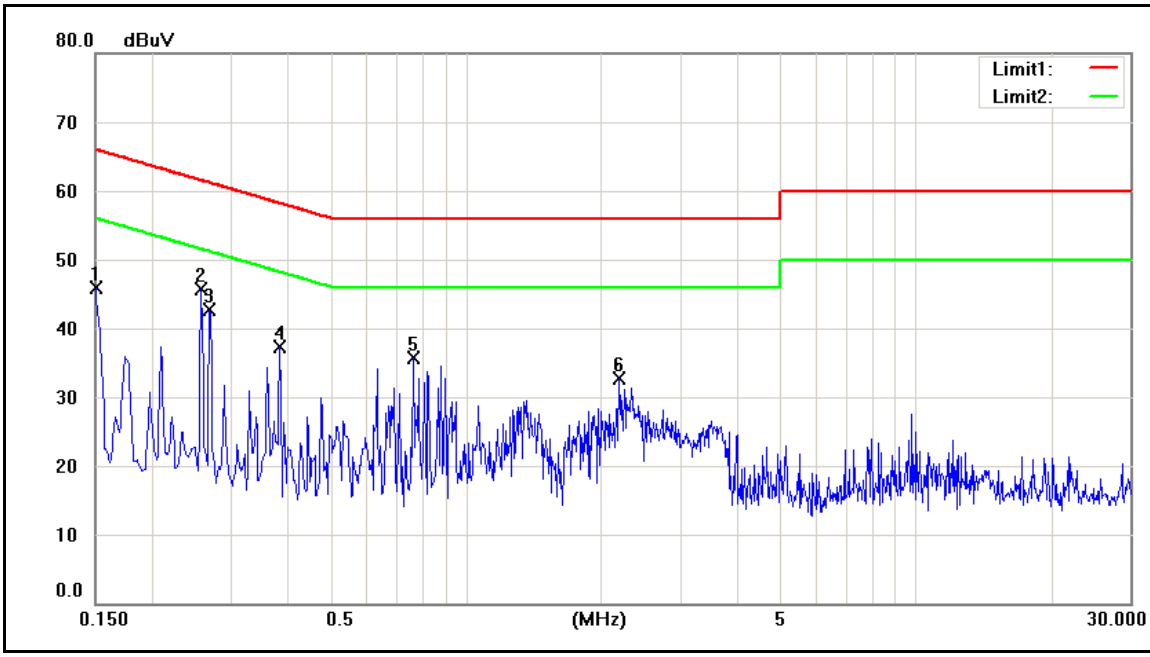
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.3860	40.34	20.05	9.98	50.32	30.03	58.15	48.15	-7.83	-18.12	Pass
2	0.5180	36.97	15.53	9.92	46.89	25.45	56.00	46.00	-9.11	-20.55	Pass
3	0.6100	34.81	9.75	9.88	44.69	19.63	56.00	46.00	-11.31	-26.37	Pass
4	0.9780	33.60	8.84	9.74	43.34	18.58	56.00	46.00	-12.66	-27.42	Pass
5	1.1780	34.25	11.06	9.71	43.96	20.77	56.00	46.00	-12.04	-25.23	Pass
6	13.5620	33.30	23.81	10.27	43.57	34.08	60.00	50.00	-16.43	-15.92	Pass

Standard:	FCC Part 24E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2011/07/20
		Test By:	Gary Wu
Description:			



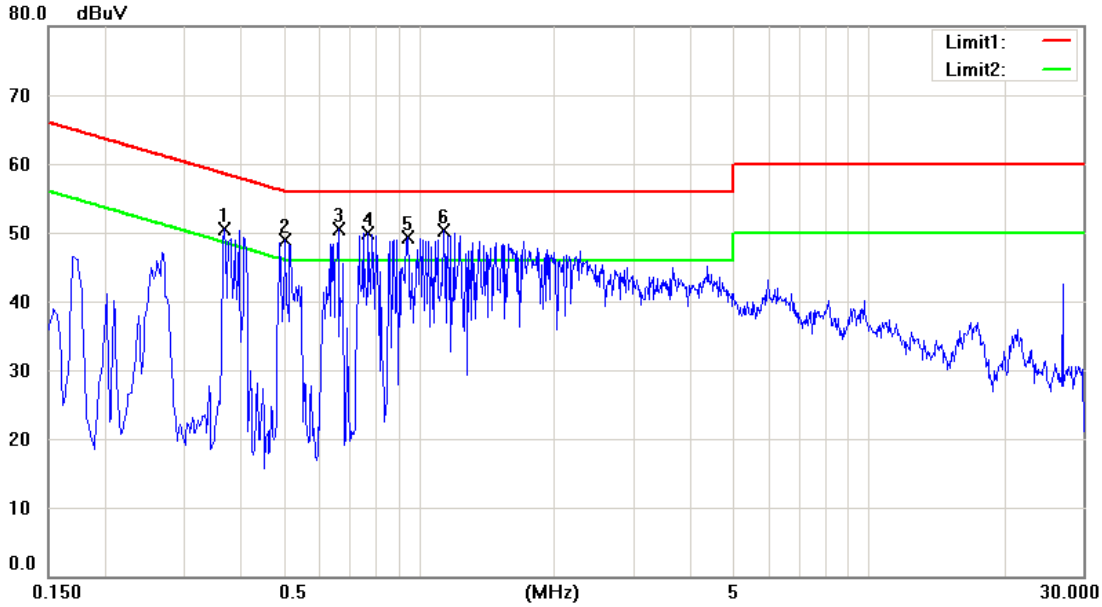
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.3860	36.97	17.74	10.06	47.03	27.80	58.15	48.15	-11.12	-20.35	Pass
2	0.4900	33.92	13.21	10.01	43.93	23.22	56.17	46.17	-12.24	-22.95	Pass
3	0.6660	34.46	13.56	9.94	44.40	23.50	56.00	46.00	-11.60	-22.50	Pass
4	0.7420	33.97	14.40	9.91	43.88	24.31	56.00	46.00	-12.12	-21.69	Pass
5	0.9100	33.11	11.57	9.84	42.95	21.41	56.00	46.00	-13.05	-24.59	Pass
6	1.2420	32.83	14.65	9.78	42.61	24.43	56.00	46.00	-13.39	-21.57	Pass

Standard:	FCC Part 22H	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2011/07/20
		Test By:	Gary Wu
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	26.82	9.66	10.07	36.89	19.73	66.00	56.00	-29.11	-36.27	Pass
2	0.2580	24.58	4.31	10.03	34.61	14.34	61.50	51.50	-26.89	-37.16	Pass
3	0.2700	32.66	5.73	10.02	42.68	15.75	61.12	51.12	-18.44	-35.37	Pass
4	0.3860	20.37	13.90	9.98	30.35	23.88	58.15	48.15	-27.80	-24.27	Pass
5	0.7660	41.06	21.19	9.83	50.89	31.02	56.00	46.00	-5.11	-14.98	Pass
6	2.1980	37.92	19.66	9.70	47.62	29.36	56.00	46.00	-8.38	-16.64	Pass

Standard:	FCC Part 22H	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model:	PH85110	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2011/07/20
		Test By:	Gary Wu
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.3700	36.09	17.80	10.06	46.15	27.86	58.50	48.50	-12.35	-20.64	Pass
2	0.5060	34.52	16.84	10.01	44.53	26.85	56.00	46.00	-11.47	-19.15	Pass
3	0.6620	34.61	14.93	9.94	44.55	24.87	56.00	46.00	-11.45	-21.13	Pass
4	0.7740	34.18	14.81	9.89	44.07	24.70	56.00	46.00	-11.93	-21.30	Pass
5	0.9460	33.14	12.23	9.82	42.96	22.05	56.00	46.00	-13.04	-23.95	Pass
6	1.1380	33.27	13.73	9.79	43.06	23.52	56.00	46.00	-12.94	-22.48	Pass