

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 : PD98120
Test Specification : FCC 47 CFR PART 22H: Oct, 2009
FCC 47 CFR PART 24E: Oct, 2009
CANADA RSS-132 Issue 2: Sep. 2005
CANADA RSS-133 Issue 4: Sep. 2008
ANSI/TIA-603-C 2004
ANSI C63.4: 2003
Issue Date : Nov. 03, 2010

Issue by

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

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Oct. 25, 2010	Initial Issue	
01	Nov. 03, 2010	Removed HSUPA/HSPA+ function.	Joyce Liao

Verification of Compliance

Issued Date: 2010/11/03

Product Type : Smartphone
Applicant : HTC Corporation
Address : No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330,
Taiwan
Trade Name : HTC
Model Number : PD98120
FCC ID : NM8PD98120
EUT Rated Voltage : DC 5.0V, 1.0A
Test Voltage : 120 Vac / 60 Hz
Applicable : FCC 47 CFR PART 22H: Oct, 2009
Standard : FCC 47 CFR PART 24E: Oct, 2009
CANADA RSS-132 Issue 2: Sep. 2005
CANADA RSS-133 Issue 4: Sep. 2008
ANSI/TIA-603-C 2004
ANSI C63.4: 2003

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.

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<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: 2003 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 : 
(Manager) (Miller Lee)

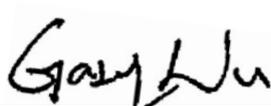
Reviewed By : 
(Testing Engineer) (Gary Wu)

TABLE OF CONTENTS

1	General Information	6
	1.1. EUT Description.....	6
	1.2. Mode of Operation.....	7
	1.3. EUT Exercise Software.....	7
	1.4. Configuration of Test System Details.....	8
	1.5. Test Site Environment.....	8
	1.6. Summary of Test Result	8
2	RF Output Power Test.....	9
	2.1. Limit	9
	2.2. Test Instruments	9
	2.3. Test Setup.....	9
	2.4. Test Procedure.....	9
	2.5. Uncertainty.....	10
	2.6. Test Result.....	10
3	Effective Radiated Power / Equivalent Isotropic Radiated Power Test	13
	3.1. Limit	13
	3.2. Test Instruments	13
	3.3. Setup	14
	3.4. Test Procedure.....	15
	3.5. Uncertainty.....	15
	3.6. Test Result.....	16
4	Occupied Bandwidth Test	19
	4.1. Limit	19
	4.2. Test Instruments	19
	4.3. Setup	19
	4.4. Test Procedure.....	20
	4.5. Uncertainty.....	20
	4.6. Test Result.....	21
5	Conducted Emission Test	47
	5.1. Limit	47
	5.2. Test Instruments	47
	5.3. Setup	47
	5.4. Test Procedure.....	48
	5.5. Uncertainty.....	48
	5.6. Test Result.....	48

6	Field Strength of Spurious Radiation Test	130
6.1.	Limit	130
6.2.	Test Instruments	130
6.3.	Setup	131
6.4.	Test Procedure.....	131
6.5.	Uncertainty.....	132
6.6.	Test Result.....	133
7	Frequency Stability (Temperature Variation) Test.....	151
7.1.	Limit	151
7.2.	Test Instruments	151
7.3.	Setup	151
7.4.	Test Procedure.....	152
7.5.	Uncertainty.....	152
7.6.	Test Result.....	153
8	Frequency Stability (Voltage Variation) Test.....	156
8.1.	Limit	156
8.2.	Test Instruments	156
8.3.	Setup	156
8.4.	Test Procedure.....	156
8.5.	Uncertainty.....	157
8.6.	Test Result.....	157
9	AC Power Conducted Emissions Test	159
9.1.	Limit	159
9.2.	Test Instruments	159
9.3.	Setup	159
9.4.	Test Procedure.....	160
9.5.	Uncertainty.....	160
9.6.	Test Result.....	161

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		PD98120			
FCC ID		NM8PD98120			
IMEI No.		Sample 1 st : 354455040013706, Sample 2 nd : 354455040014936			
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	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: -1.40 dBi GSM/GPRS/EGPRS 1900: 0.25 dBi WCDMA/ HSDPA Band II: 0.10 dBi WCDMA/ HSDPA Band V: -1.50 dBi			
Max. RF Output power		GSM/GPRS 850: 33.47 dBm / 2.223 W, EGPRS 850: 29.70 dBm / 0.933 W GSM/GPRS 1900: 30.70 dBm / 1.175 W, EGPRS 1900: 29.60 dBm / 0.912 W WCDMA/ HSDPA Band II: 26.77 dBm / 0.475 W WCDMA/ HSDPA Band V: 27.70 dBm / 0.589 W			
Max. ERP/EIRP		GSM/GPRS 850: 27.08 dBm / 0.511 W, EGPRS 850: 26.39 dBm / 0.436 W GSM/GPRS 1900: 27.45 dBm / 0.556 W, EGPRS 1900: 27.25 dBm / 0.531 W WCDMA/ HSDPA Band II: 24.29 dBm / 0.269 W WCDMA/ HSDPA Band V: 18.58 dBm / 0.072 W			
Emission Designator		GSM/GPRS 850: 247KGXW, EGPRS 850: 250KG7W GSM/GPRS 1900: 250KGXW, EGPRS 1900: 251KG7W WCDMA/ HSDPA Band II: 4M17F9W WCDMA/ HSDPA 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: WCDMA Band V Link
Mode 5: EGPRS 850 Link
Mode 6: EGPRS 1900 Link
Mode 7: Receiver Mode

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

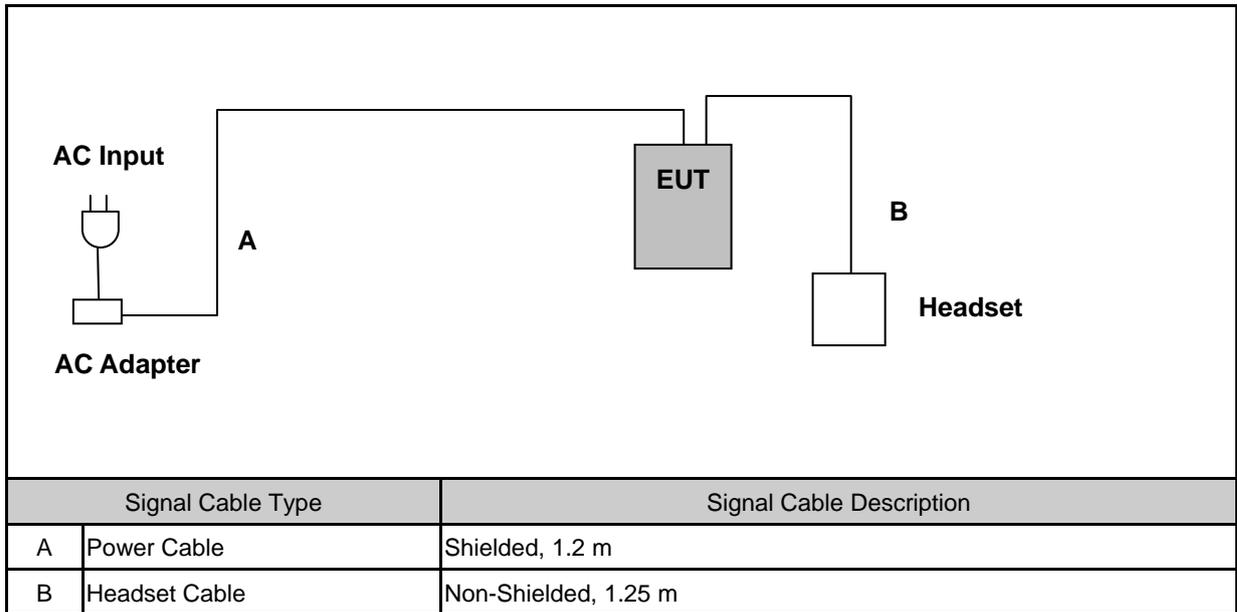
Component	Component Source	Different Description	
		Sample 1 st	Sample 2 nd
GSM Power Amplifier	#1	V	
	#2		V

Note: The GSM power amplifier influenced mode 1 and mode 2, which different samples should be tested.

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



1.5. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	25
Humidity (%RH)	25-75	50
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+10log 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+10log 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+10log 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

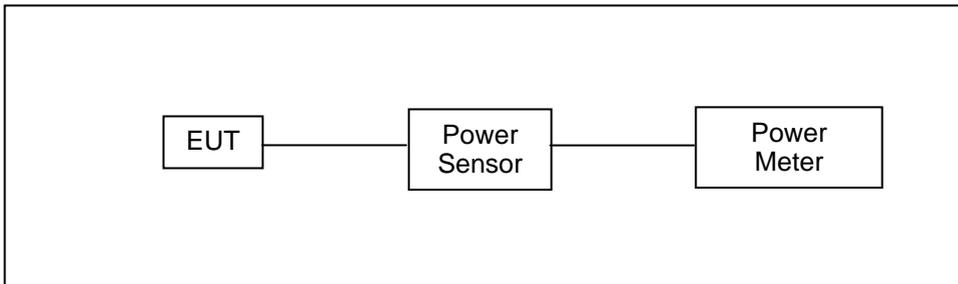
2.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(1)
Single Channel PK Power Sensor	Agilent	N1911A	MY45101619	07/19/2010	(1)
Wideband Power Meter	Agilent	N1921A	MY45241957	07/19/2010	(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.

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	PD98120						
Test Item	RF Output Power						
Date of Test	09/09/2010, 10/14/2010				Test Site	TE02	
Bands	GSM power amplifier	Data Rate	Frequency (MHz)	Time-Average Power		Peak Power	
				(dBm)	(W)	(dBm)	(W)
GSM 850	# 1	-----	824.2	24.05	0.254	33.47	2.223
			836.6	23.97	0.249	33.18	2.080
			848.8	23.87	0.244	33.09	2.037
	# 2	-----	824.2	23.71	0.235	33.30	2.138
			836.6	23.51	0.224	33.10	2.042
			848.8	23.31	0.214	32.90	1.950
GRRS 850	# 1	4Down1Up	824.2	23.94	0.248	33.17	2.075
			836.6	23.86	0.243	33.09	2.037
			848.8	24.25	0.266	33.45	2.213
	# 2	4Down1Up	824.2	23.51	0.224	33.10	2.042
			836.6	23.41	0.219	33.00	1.995
			848.8	23.31	0.214	32.80	1.905
EGPRS 850	# 1	4Down1Up	824.2	17.20	0.052	29.40	0.871
			836.6	17.03	0.050	29.30	0.851
			848.8	17.37	0.055	29.20	0.832
	# 2	4Down1Up	824.2	17.31	0.054	29.70	0.933
			836.6	17.11	0.051	29.40	0.871
			848.8	17.01	0.050	29.30	0.851

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

Model Number	PD98120						
Test Item	RF Output Power						
Date of Test	09/09/2010, 10/14/2010				Test Site	TE02	
Bands	GSM power amplifier	Data Rate	Frequency (MHz)	Time-Average Power		Peak Power	
				(dBm)	(W)	(dBm)	(W)
GSM 1900	# 1	-----	1850.20	19.84	0.096	29.07	0.807
			1880.00	29.07	0.807	30.14	1.033
			1909.80	30.14	1.033	30.29	1.069
	# 2	-----	1850.20	21.31	0.135	30.70	1.175
			1880.00	20.71	0.118	30.10	1.023
			1909.80	20.31	0.107	29.70	0.933
GRRS 1900	# 1	4Down1Up	1850.20	20.03	0.101	29.24	0.839
			1880.00	20.57	0.114	29.79	0.953
			1909.80	20.66	0.116	29.87	0.971
	# 2	4Down1Up	1850.20	21.31	0.135	30.70	1.175
			1880.00	20.71	0.118	30.10	1.023
			1909.80	20.31	0.107	29.70	0.933
EGPRS 1900	# 1	4Down1Up	1850.20	15.41	0.035	29.00	0.794
			1880.00	16.08	0.041	28.60	0.724
			1909.80	16.11	0.041	28.30	0.676
	# 2	3Down2Up	1850.20	20.17	0.104	29.60	0.912
			1880.00	19.47	0.088	28.90	0.776
			1909.80	19.17	0.083	28.60	0.724

Model Number	PD98120					
Test Item	RF Output Power					
Date of Test	09/09/2010				Test Site	TE02
Bands	Sub-Test	Frequency (MHz)	Average Burst Conducted Power		Peak Conducted Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band II	-----	1852.4	23.37	0.217	26.63	0.460
		1880.0	23.54	0.226	26.77	0.475
		1907.6	23.36	0.217	26.00	0.398
HSDPA Band II	1	1852.4	22.61	0.182	25.84	0.384
		1880.0	22.83	0.192	26.03	0.401
		1907.6	22.73	0.187	25.35	0.343
	2	1852.4	22.58	0.181	25.84	0.384
		1880.0	22.81	0.191	26.01	0.399
		1907.6	22.72	0.187	25.36	0.344
	3	1852.4	22.09	0.162	25.33	0.341
		1880.0	22.31	0.170	25.52	0.356
		1907.6	22.23	0.167	24.86	0.306
	4	1852.4	22.11	0.163	25.34	0.342
		1880.0	22.31	0.170	25.52	0.356
		1907.6	22.21	0.166	24.85	0.305

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

Model Number	PD98120					
Test Item	RF Output Power					
Date of Test	09/02/2010			Test Site	TE02	
Bands	Sub-Test	Frequency (MHz)	Average Burst Conducted Power		Peak Conducted Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band V	-----	826.4	23.70	0.234	27.70	0.589
		836.4	23.56	0.227	27.00	0.501
		846.4	24.01	0.252	27.20	0.525
HSDPA Band V	1	826.4	22.66	0.185	26.63	0.460
		836.4	22.53	0.179	25.95	0.394
		846.4	23.03	0.201	26.21	0.418
	2	826.4	22.64	0.184	26.64	0.461
		836.4	22.52	0.179	25.95	0.394
		846.4	23.01	0.200	26.17	0.414
	3	826.4	22.15	0.164	26.14	0.411
		836.4	22.02	0.159	25.45	0.351
		846.4	22.53	0.179	25.71	0.372
	4	826.4	22.14	0.164	26.11	0.408
		836.4	22.03	0.160	25.45	0.351
		846.4	22.50	0.178	25.67	0.369

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

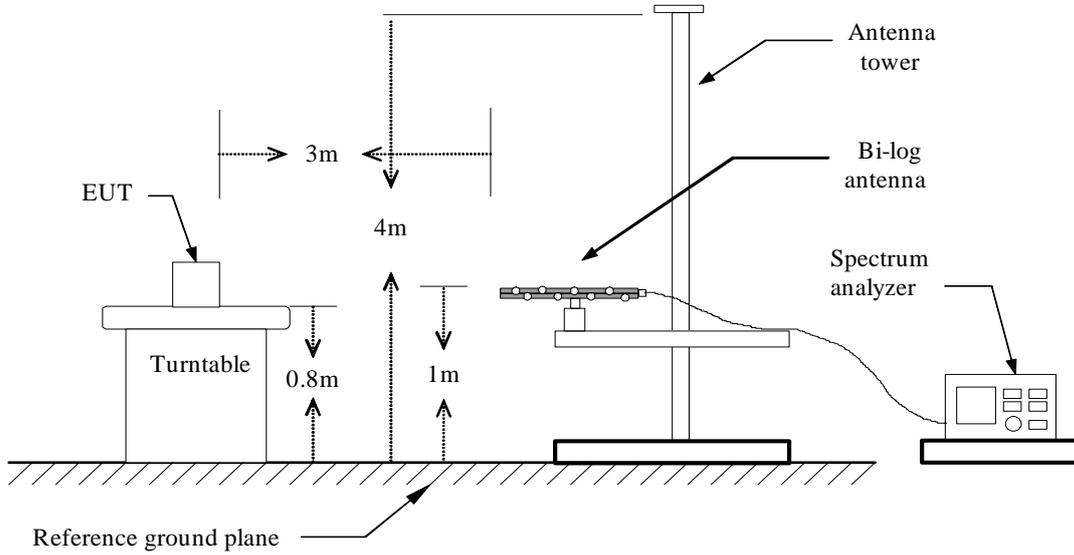
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/07/2009	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	02/24/2010	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2010	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2010	(1)
Bi-log Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/02/2010	(1)
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2010	(1)
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/29/2010	(1)
Test Site	ATL	TE01	888001	07/30/2010	(1)

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

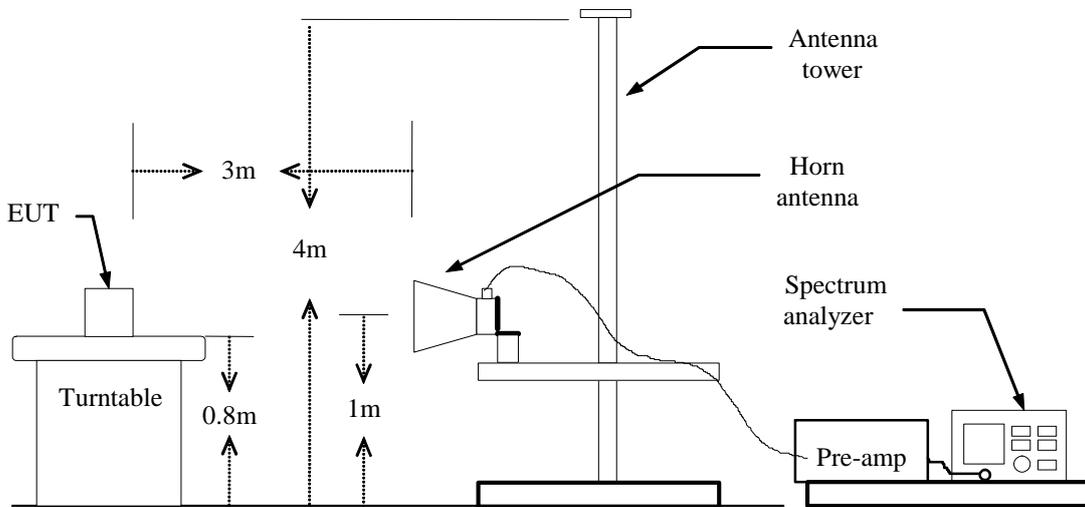
NOTE: N.C.R. = No Calibration Request.

3.3. Setup

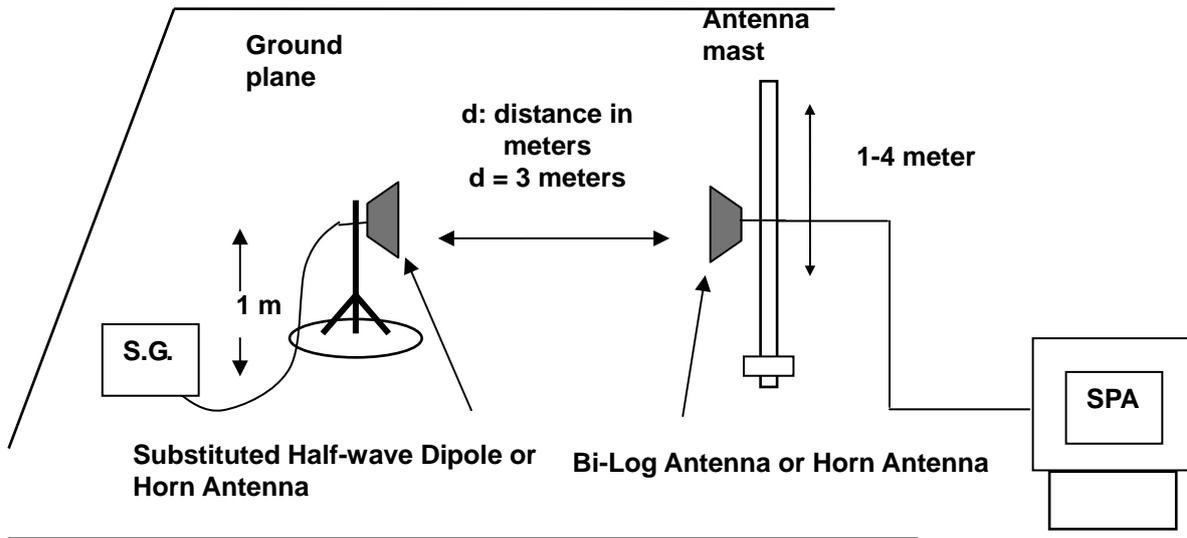
Below 1 GHz



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 a 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:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

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	PD98120							
Test Item	ERP/EIRP							
Test Mode	Mode 1: GSM 850 Link							
Date of Test	10/20/2010				Test Site		TC03	
Bands	GSM power amplifier	Frequency (MHz)	Ant. Polar. (H / V)	Read Level (dBm)	Correction Factor (dBm)	ERP		Limit
						(dBm)	(W)	
GSM 850	#1	824.2	H	11.79	11.95	23.74	0.237	< 7W
			V	14.41	11.29	25.70	0.372	< 7W
		836.6	H	12.23	12.07	24.30	0.269	< 7W
			V	14.85	11.34	26.19	0.416	< 7W
		848.8	H	12.95	12.51	25.46	0.352	< 7W
			V	14.98	11.47	26.45	0.442	< 7W
	#2	824.2	H	13.52	11.95	25.47	0.352	< 7W
			V	10.74	11.29	22.03	0.160	< 7W
		836.6	H	14.19	12.07	26.26	0.423	< 7W
			V	12.18	11.34	23.52	0.225	< 7W
		848.8	H	14.57	12.51	27.08	0.511	< 7W
			V	12.35	11.47	23.82	0.241	< 7W
EGPRS 850	#1	824.2	H	11.61	11.95	23.56	0.227	< 7W
			V	14.09	11.29	25.38	0.345	< 7W
		836.6	H	12.03	12.07	24.10	0.257	< 7W
			V	14.70	11.34	26.04	0.402	< 7W
		848.8	H	12.55	12.50	25.05	0.320	< 7W
			V	14.59	11.47	26.06	0.404	< 7W
	#2	824.2	H	12.93	11.95	24.88	0.308	< 7W
			V	10.20	11.29	21.49	0.141	< 7W
		836.6	H	13.71	12.07	25.78	0.378	< 7W
			V	11.67	11.34	23.01	0.200	< 7W
		848.8	H	13.88	12.51	26.39	0.436	< 7W
			V	11.90	11.47	23.37	0.217	< 7W

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	PD98120							
Test Item	ERP/EIRP							
Test Mode	Mode 2: GSM 1900 Link							
Date of Test	10/20/2010				Test Site		TC03	
Bands	GSM power amplifier	Frequency (MHz)	Ant. Polar. (H / V)	Read Level (dBm)	Correction Factor (dBm)	EIRP		Limit
						(dBm)	(W)	
GSM 1900	#1	1850.20	H	16.59	10.42	27.01	0.502	< 2W
			V	18.29	8.26	26.55	0.452	< 2W
		1880.00	H	17.01	10.44	27.45	0.556	< 2W
			V	18.06	8.50	26.56	0.453	< 2W
		1909.80	H	15.66	10.43	26.09	0.406	< 2W
			V	18.09	8.72	26.81	0.480	< 2W
	#2	1850.20	H	14.84	10.42	25.26	0.336	< 2W
			V	17.97	8.26	26.23	0.420	< 2W
		1880.00	H	14.33	10.44	24.77	0.300	< 2W
			V	17.28	8.50	25.78	0.378	< 2W
		1909.80	H	14.29	10.43	24.72	0.296	< 2W
			V	17.59	8.73	26.32	0.429	< 2W
EGPRS 1900	#1	1850.20	H	16.20	10.42	26.62	0.459	< 2W
			V	18.14	8.26	26.40	0.437	< 2W
		1880.00	H	16.81	10.44	27.25	0.531	< 2W
			V	18.05	8.50	26.55	0.452	< 2W
		1909.80	H	15.33	10.44	25.77	0.378	< 2W
			V	17.98	8.72	26.70	0.468	< 2W
	#2	1850.20	H	15.47	10.42	25.89	0.388	< 2W
			V	17.92	8.26	26.18	0.415	< 2W
		1880.00	H	15.20	10.44	25.64	0.366	< 2W
			V	17.43	8.50	25.93	0.392	< 2W
		1909.80	H	14.37	10.44	24.81	0.303	< 2W
			V	17.42	8.73	26.15	0.412	< 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	PD98120						
Test Item	ERP/EIRP						
Test Mode	Mode 3: WCDMA Band II Link						
Date of Test	10/20/2010				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	EIRP		Limit
					(dBm)	(W)	
WCDMA Band II	1852.4	H	10.05	10.42	20.47	0.111	< 2W
		V	16.01	8.28	24.29	0.269	< 2W
	1880.0	H	8.47	10.43	18.90	0.078	< 2W
		V	14.92	8.49	23.41	0.219	< 2W
	1907.6	H	9.28	10.43	19.71	0.094	< 2W
		V	13.78	8.72	22.50	0.178	< 2W

Model Number	PD98120						
Test Item	ERP/EIRP						
Test Mode	Mode 4: WCDMA Band V Link						
Date of Test	10/20/2010				Test Site	TE01	
Bands	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction factor (dBm)	ERP		Limit
					(dBm)	(W)	
WCDMA Band V	826.4	H	3.41	11.97	15.38	0.035	< 7W
		V	6.26	11.30	17.56	0.057	< 7W
	836.4	H	4.59	12.08	16.67	0.046	< 7W
		V	7.24	11.34	18.58	0.072	< 7W
	846.4	H	4.86	12.40	17.26	0.053	< 7W
		V	7.10	11.42	18.52	0.071	< 7W

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.

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 $43 + 10\log(P)$ dB.

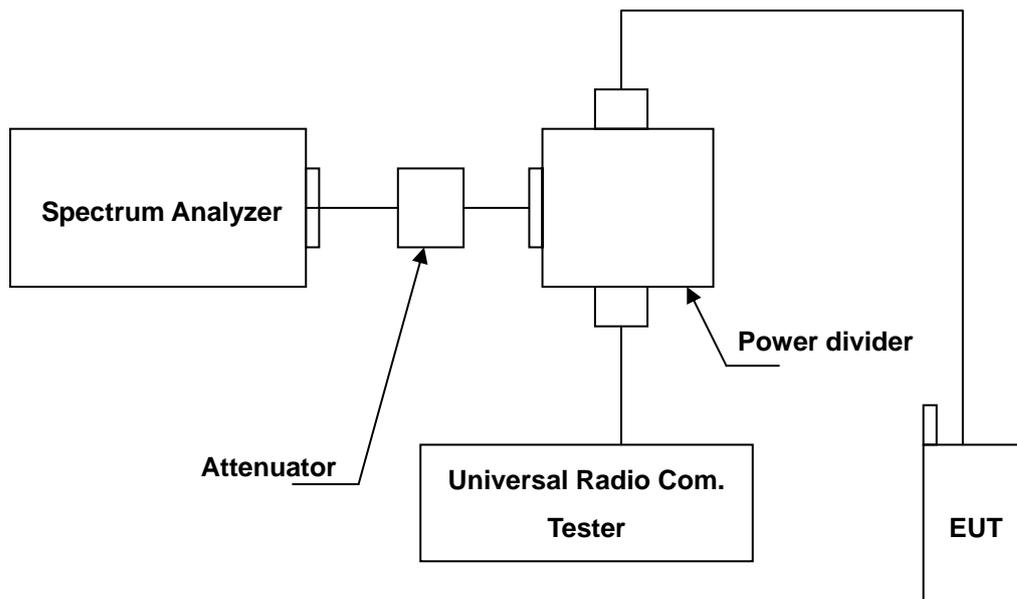
4.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2009	(2)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(1)
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 WCDMA Band V and WCDMA Band II.

4.5. Uncertainty

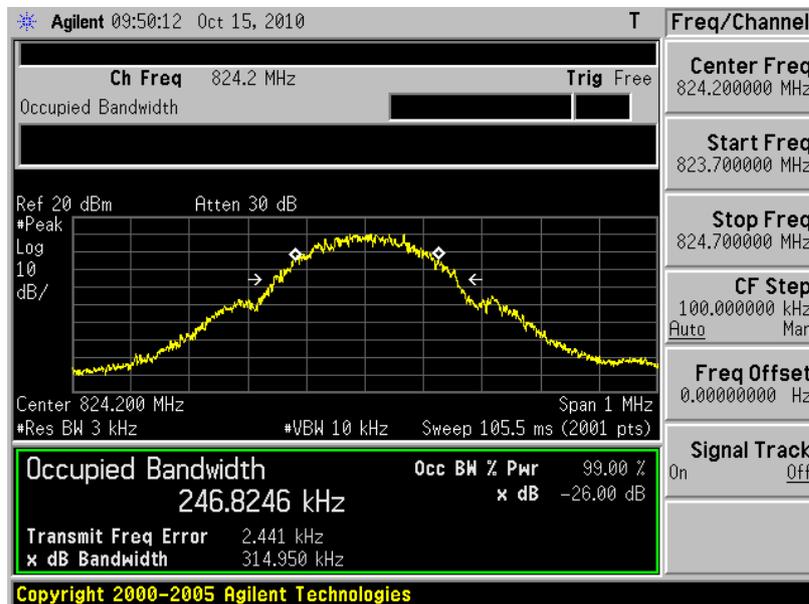
The measurement uncertainty is defined as $\pm 10\text{Hz}$

4.6. Test Result
99% Occupied Bandwidth

Model Number	PD98120				
Test Item	Occupied Bandwidth				
Test Mode	Mode 1: GSM 850 Link				
Date of Test	10/15/2010, 10/18/2010			Test Site	TE02
GSM power amplifier	Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note	
#1	128	824.2	246.8246	RBW:3KHz , VBW:10KHz	
	190	836.6	241.9735	RBW:3KHz , VBW:10KHz	
	251	848.8	242.4670	RBW:3KHz , VBW:10KHz	
#2	128	824.2	244.6723	RBW:3KHz , VBW:10KHz	
	190	836.6	243.6383	RBW:3KHz , VBW:10KHz	
	251	848.8	242.5338	RBW:3KHz , VBW:10KHz	

GSM power amplifier #1

Figure Channel 128



GSM power amplifier #1

Figure Channel 190

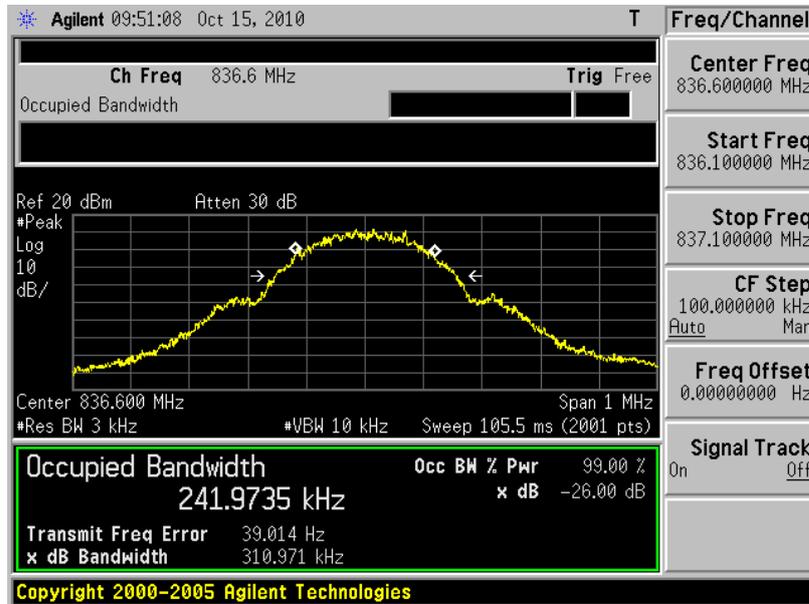
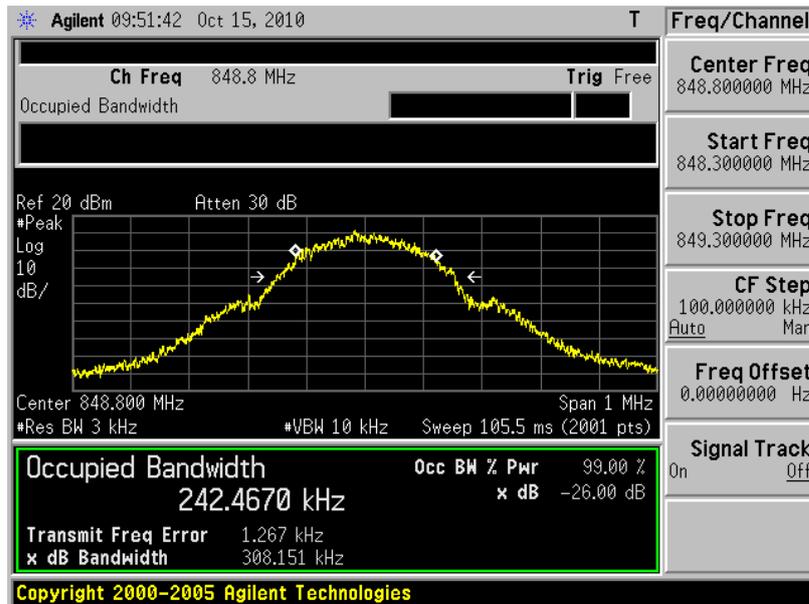
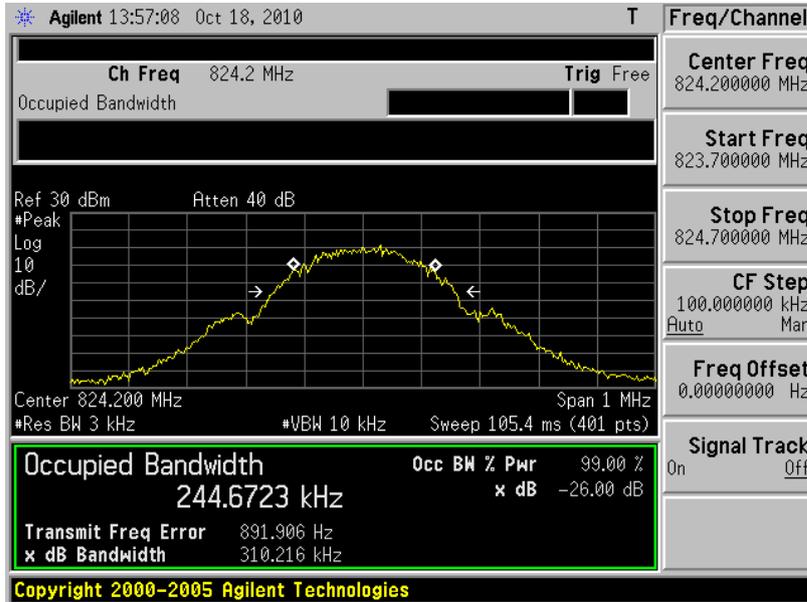


Figure Channel 251

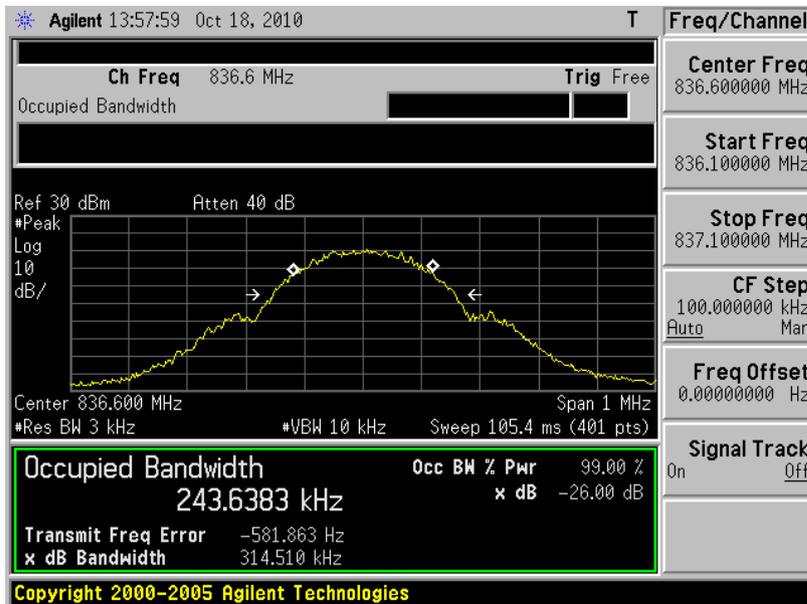


GSM power amplifier #2

Channel 128

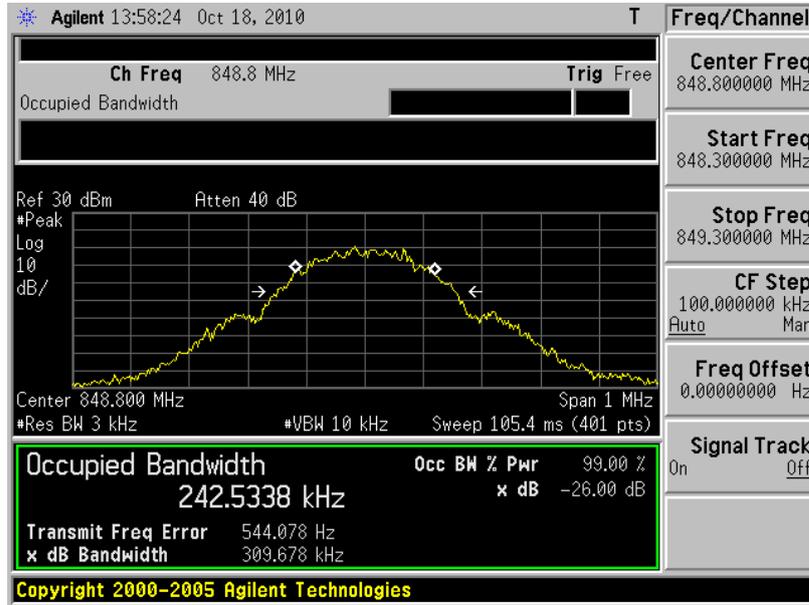


Channel 190



GSM power amplifier #2

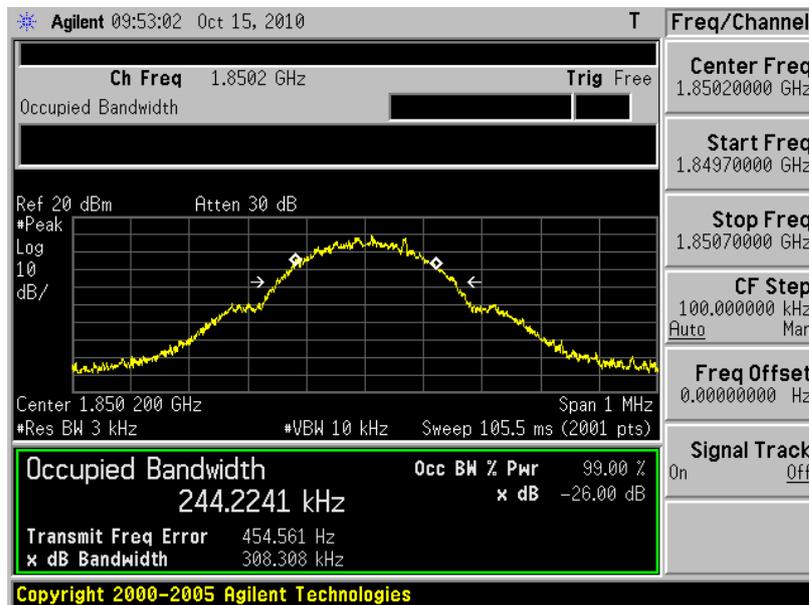
Channel 251



Model Number	PD98120				
Test Item	Occupied Bandwidth				
Test Mode	Mode 2: GSM 1900 Link				
Date of Test	10/15/2010, 10/18/2010			Test Site	TE02
GSM power amplifier	Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note	
#1	512	1850.20	244.2241	RBW:3KHz , VBW:10KHz	
	661	1880.00	244.2164	RBW:3KHz , VBW:10KHz	
	810	1909.80	240.1941	RBW:3KHz , VBW:10KHz	
#2	512	1850.20	248.9623	RBW:3KHz , VBW:10KHz	
	661	1880.00	244.6138	RBW:3KHz , VBW:10KHz	
	810	1909.80	242.4953	RBW:3KHz , VBW:10KHz	

GSM power amplifier #1

Figure Channel 512



GSM power amplifier #1

Figure Channel 661

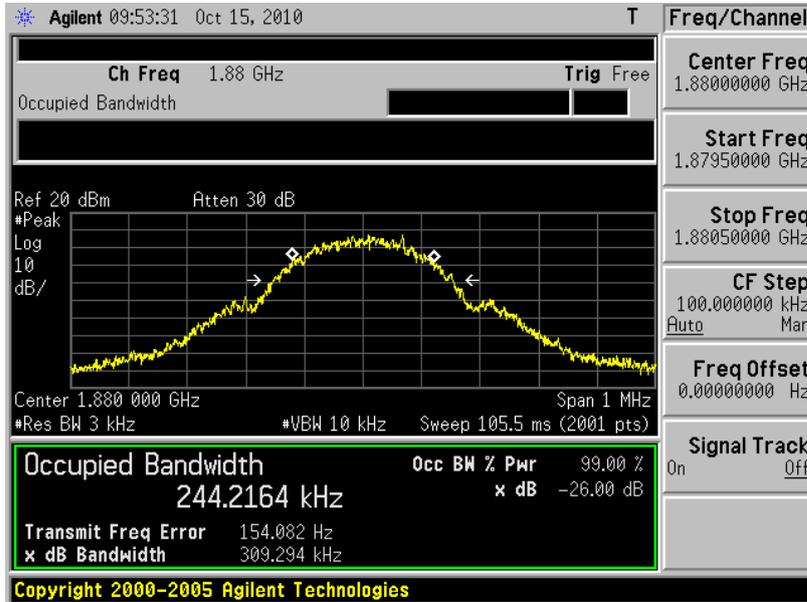
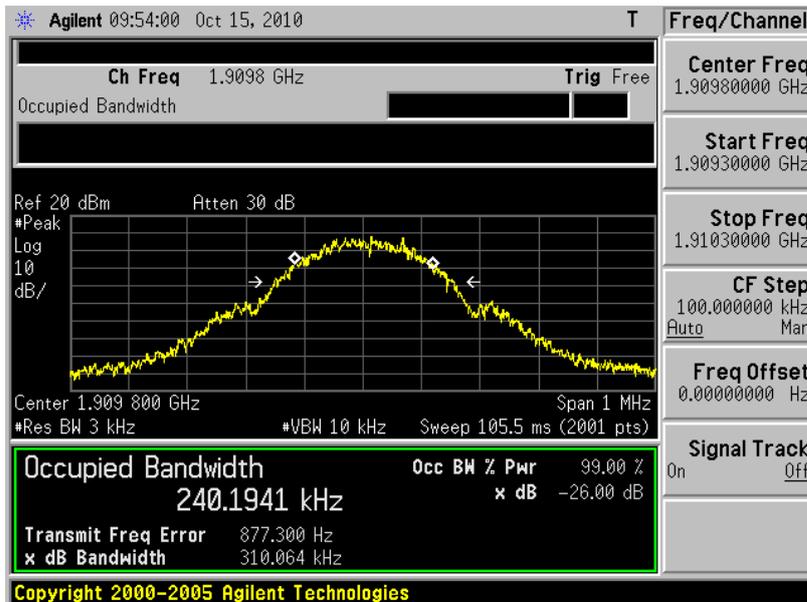
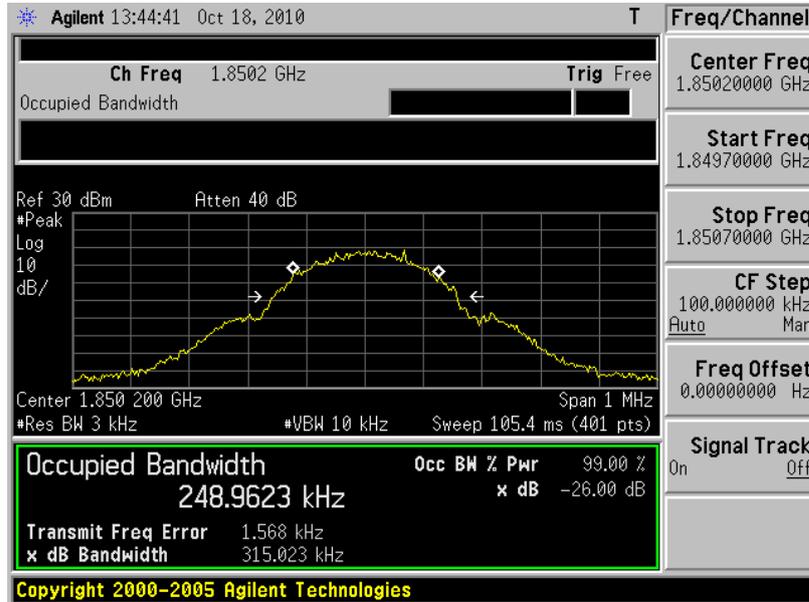


Figure Channel 810



GSM power amplifier #2

Channel 512

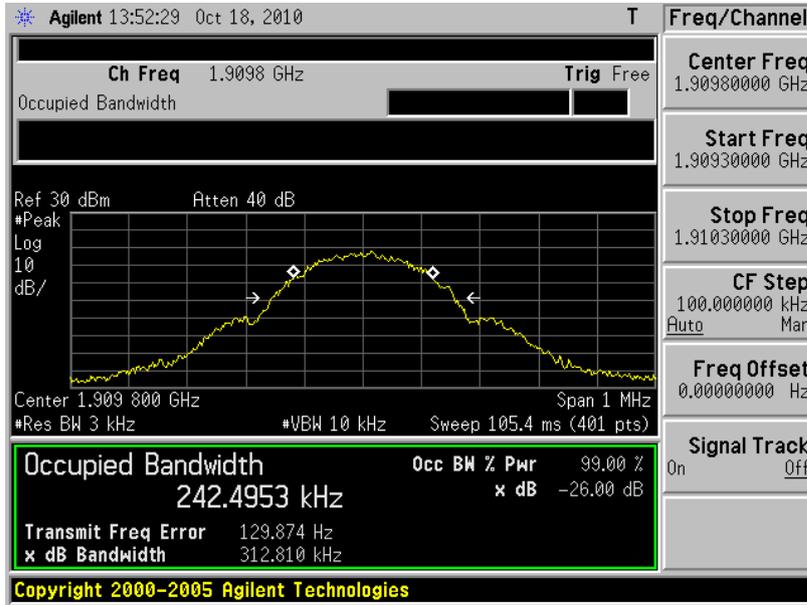


Channel 661



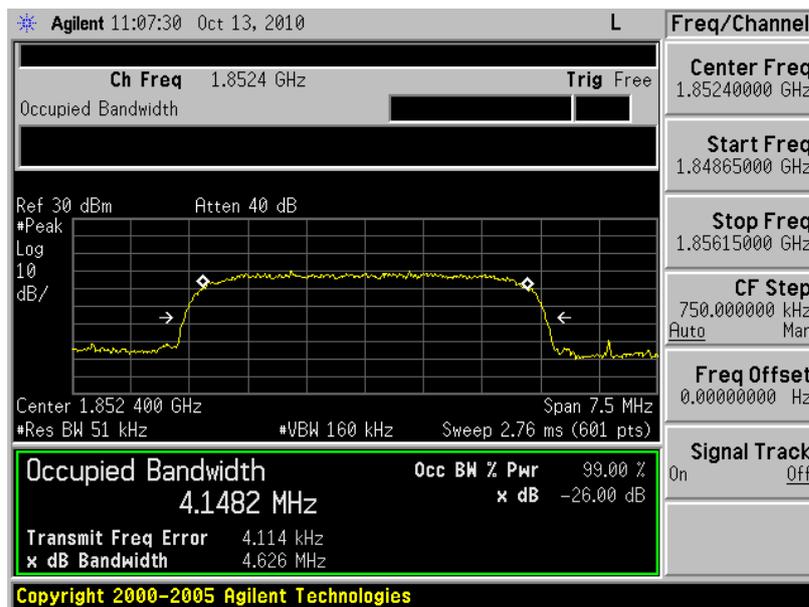
GSM power amplifier #2

Channel 810

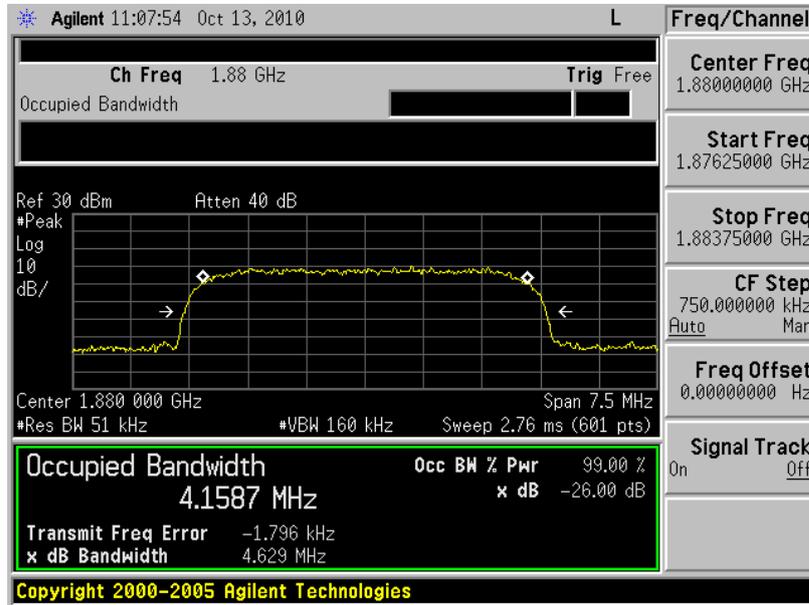


Model Number	PD98120		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: WCDMA Band II Link		
Date of Test	10/13/2010	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Note
9262	1852.4	4.1482	RBW:51KHz , VBW:160KHz
9400	1880.0	4.1587	RBW:51KHz , VBW:160KHz
9538	1907.6	4.1683	RBW:51KHz , VBW:160KHz

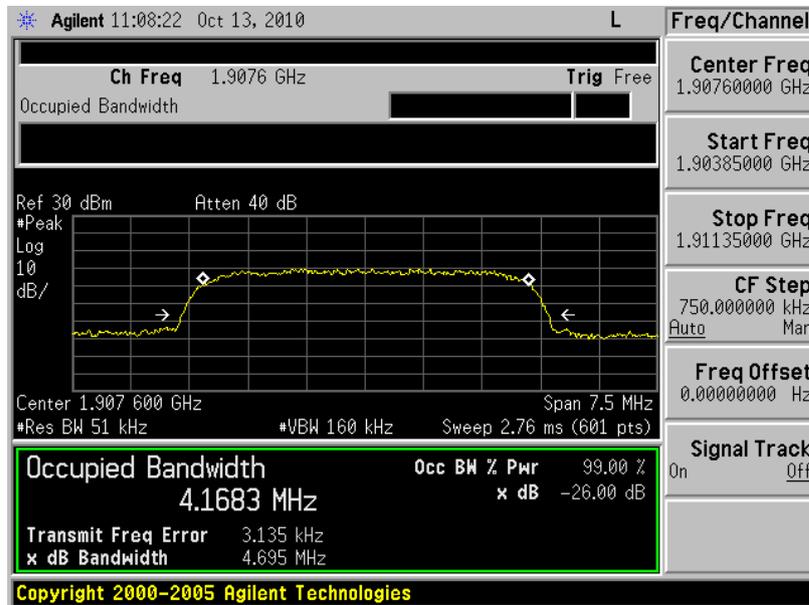
Channel 9262



Channel 9400

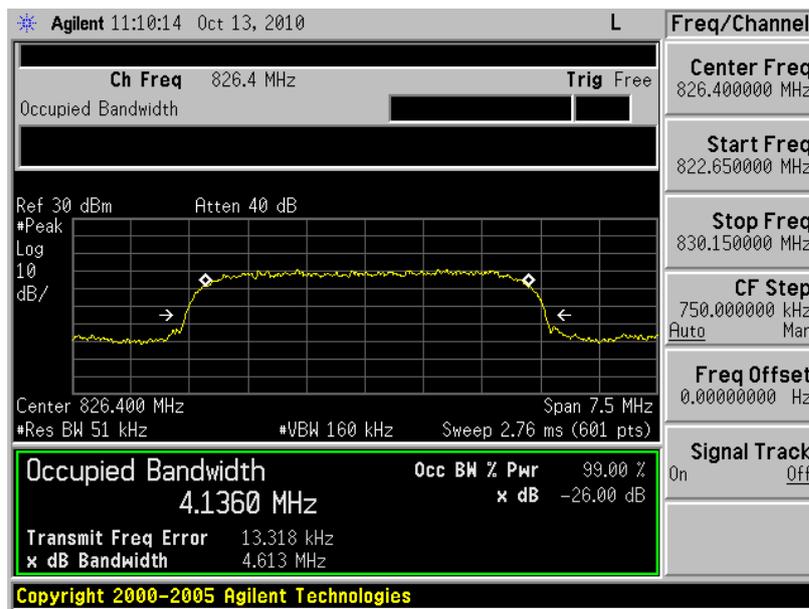


Channel 9538

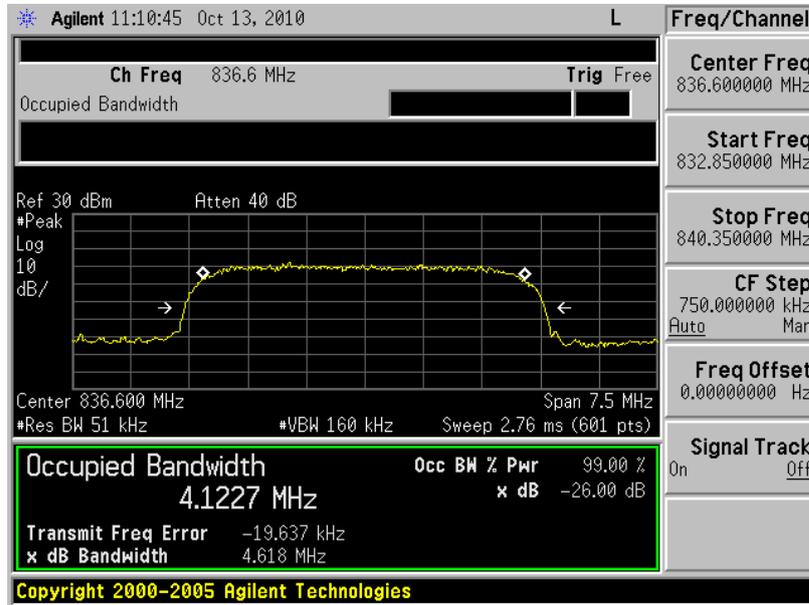


Model Number	PD98120		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: WCDMA Band V Link		
Date of Test	10/13/2010	Test Site	TE02
Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note
4132	826.4	4.1360	RBW:51KHz , VBW:160KHz
4182	836.4	4.1227	RBW:51KHz , VBW:160KHz
4233	846.4	4.1267	RBW:51KHz , VBW:160KHz

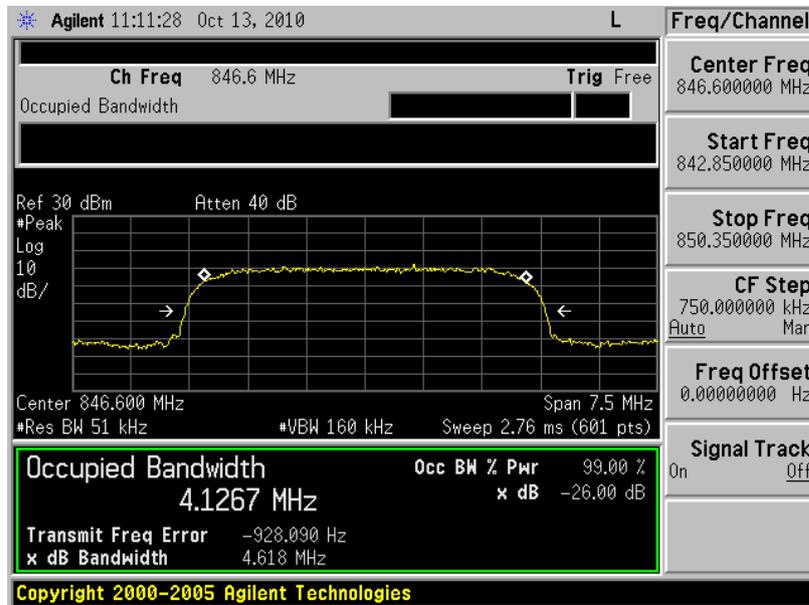
Channel 4132



Channel 4182



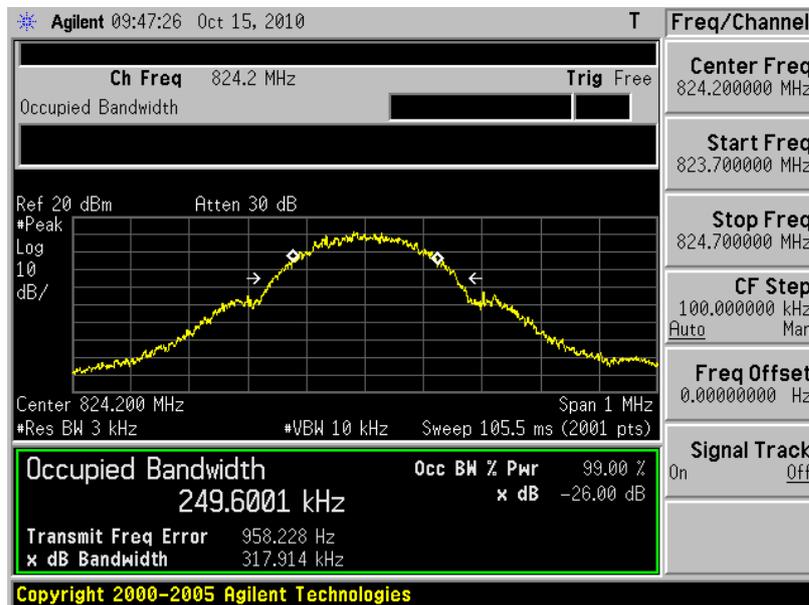
Channel 4233



Model Number	PD98120				
Test Item	Occupied Bandwidth				
Test Mode	Mode 5: EGPRS 850 Link				
Date of Test	10/15/2010, 10/18/2010			Test Site	TE02
GSM power amplifier	Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note	
#1	128	824.2	249.6001	RBW:3KHz , VBW:10KHz	
	190	836.6	243.6169	RBW:3KHz , VBW:10KHz	
	251	848.8	244.0936	RBW:3KHz , VBW:10KHz	
#2	128	824.2	243.4521	RBW:3KHz , VBW:10KHz	
	190	836.6	243.0042	RBW:3KHz , VBW:10KHz	
	251	848.8	244.8469	RBW:3KHz , VBW:10KHz	

GSM power amplifier #1

Figure Channel 128



GSM power amplifier #1

Figure Channel 190

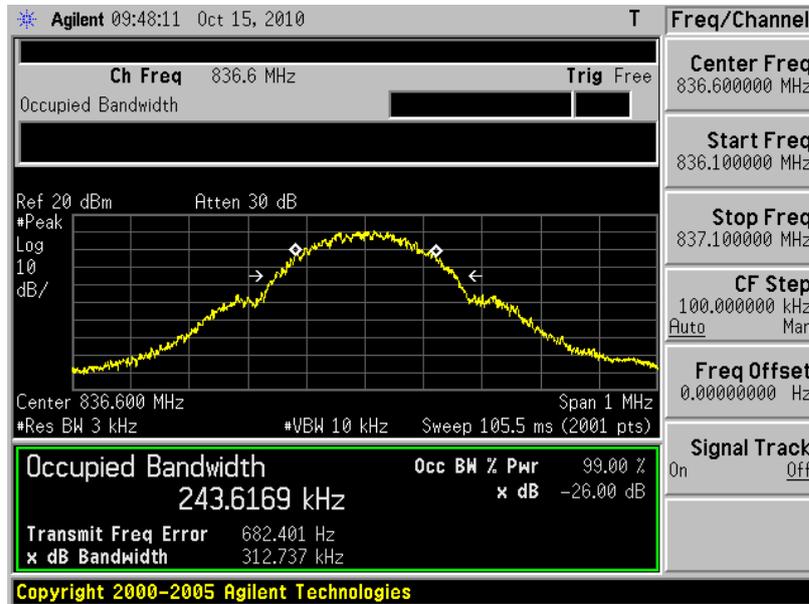
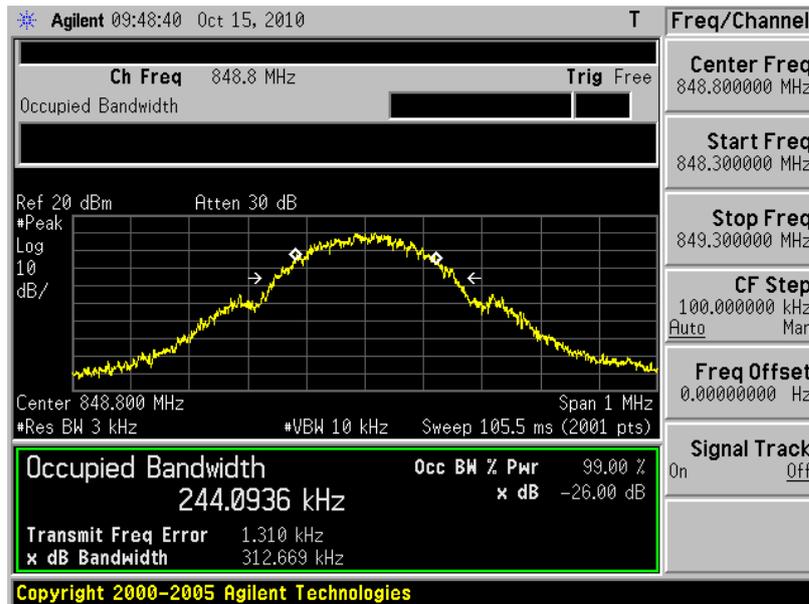


Figure Channel 251

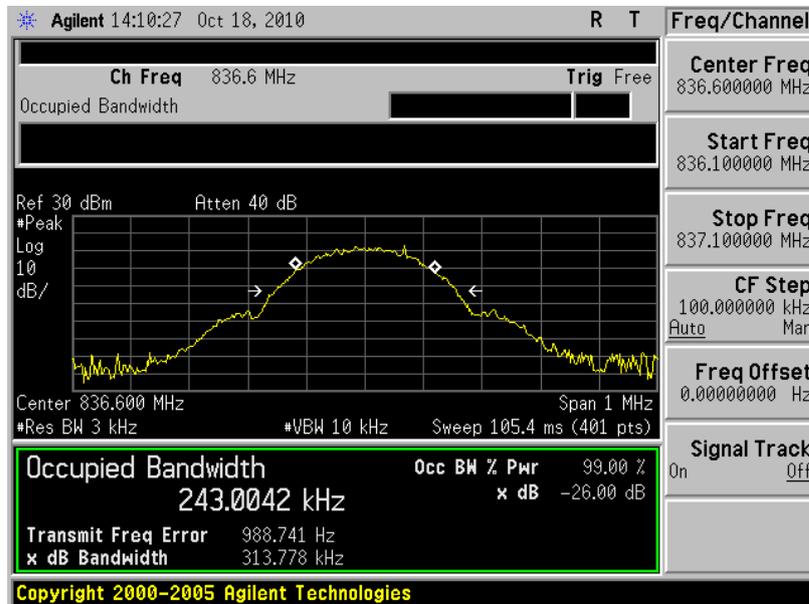


GSM power amplifier #2

Channel 128

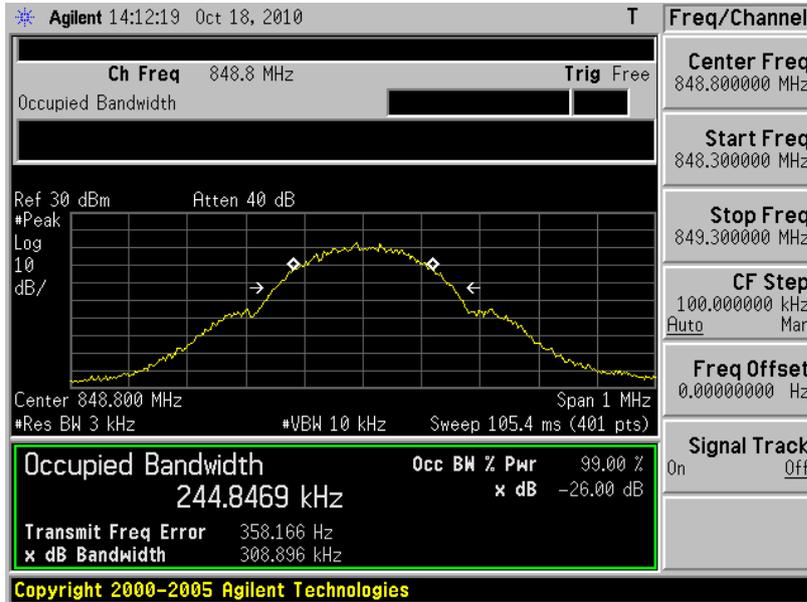


Channel 190



GSM power amplifier #2

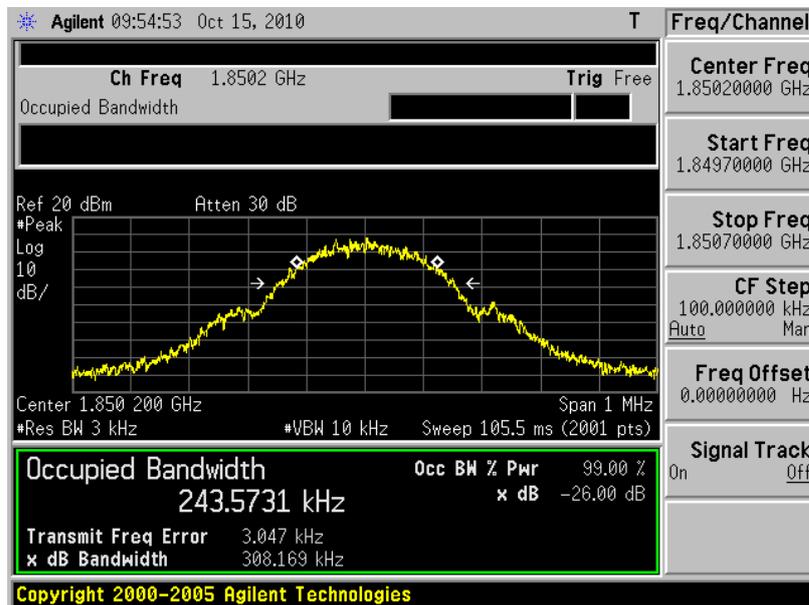
Channel 251



Model Number	PD98120				
Test Item	Occupied Bandwidth				
Test Mode	Mode 6: EGPRS 1900 Link				
Date of Test	10/15/2010, 10/18/2010			Test Site	TE02
GSM power amplifier	Channel No.	Frequency (MHz)	99% Bandwidth (kHz)	Note	
#1	512	1850.20	243.5731	RBW:3KHz , VBW:10KHz	
	661	1880.00	242.9194	RBW:3KHz , VBW:10KHz	
	810	1909.80	246.0508	RBW:3KHz , VBW:10KHz	
#2	512	1850.20	243.4049	RBW:3KHz , VBW:10KHz	
	661	1880.00	251.1128	RBW:3KHz , VBW:10KHz	
	810	1909.80	245.2272	RBW:3KHz , VBW:10KHz	

GSM power amplifier #1

Figure Channel 512



GSM power amplifier #1

Figure Channel 661

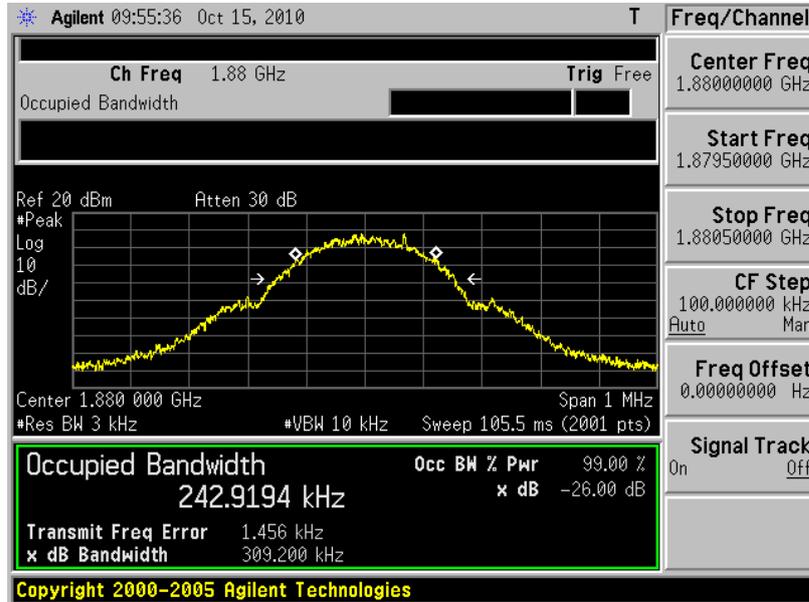
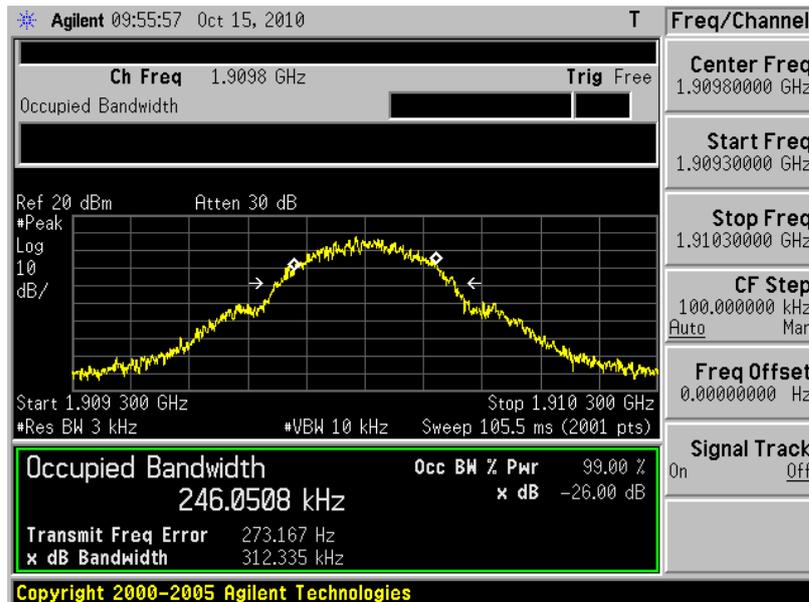
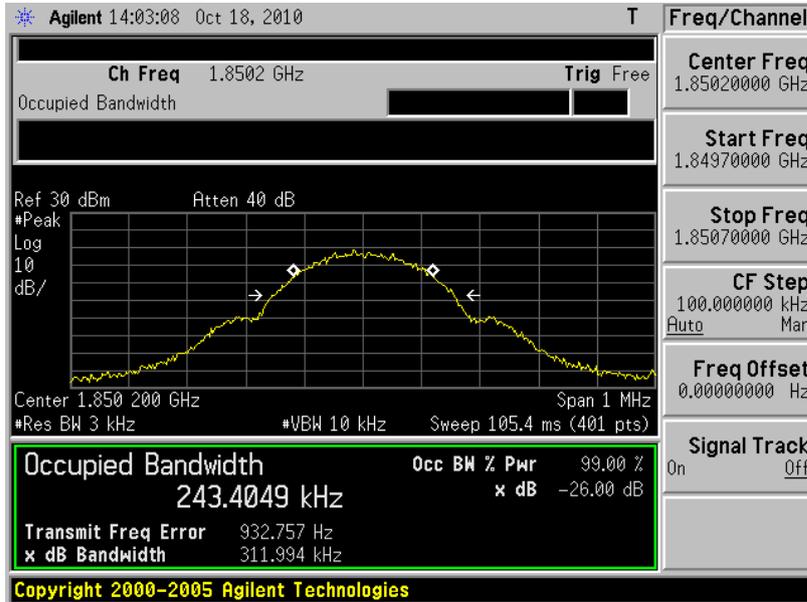


Figure Channel 810

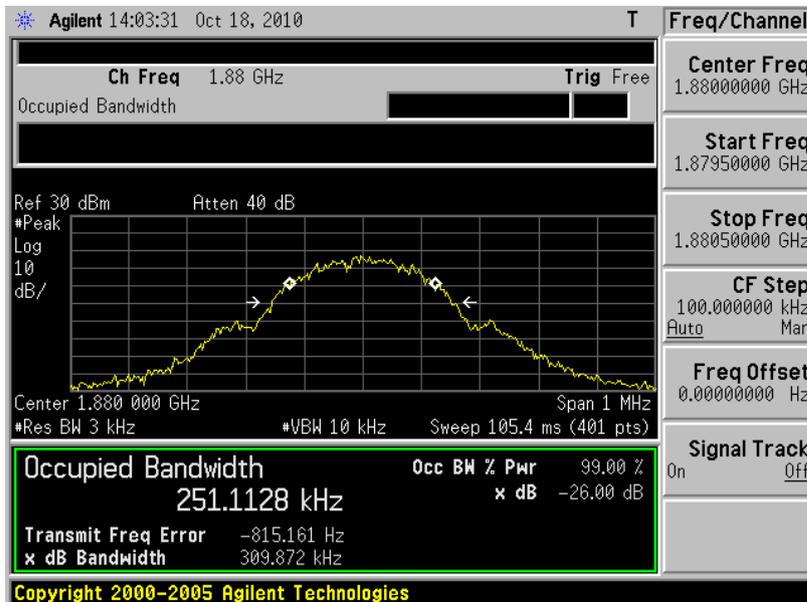


GSM power amplifier #2

Channel 512

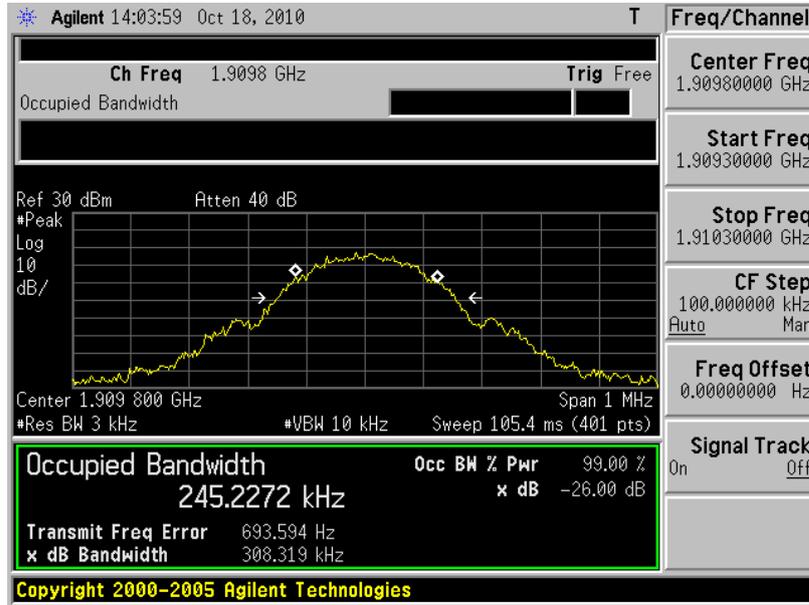


Channel 661



GSM power amplifier #2

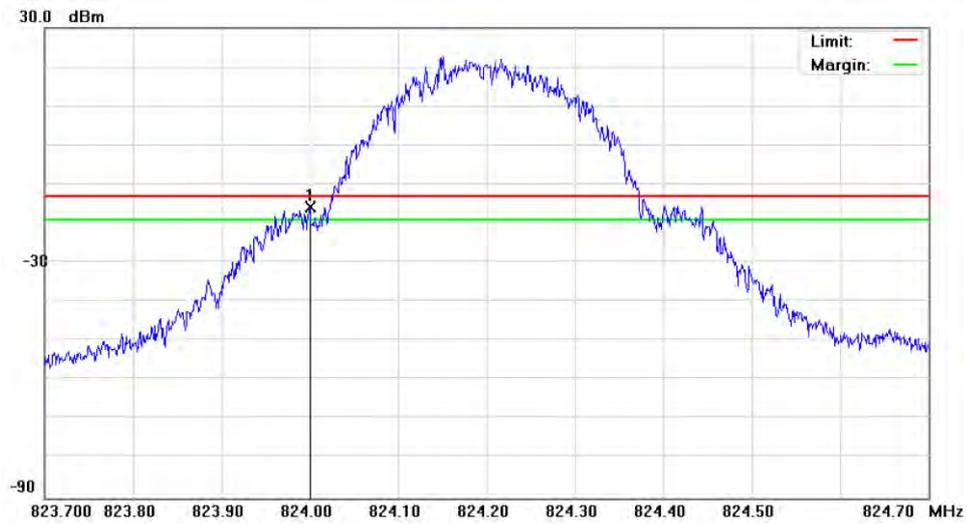
Channel 810



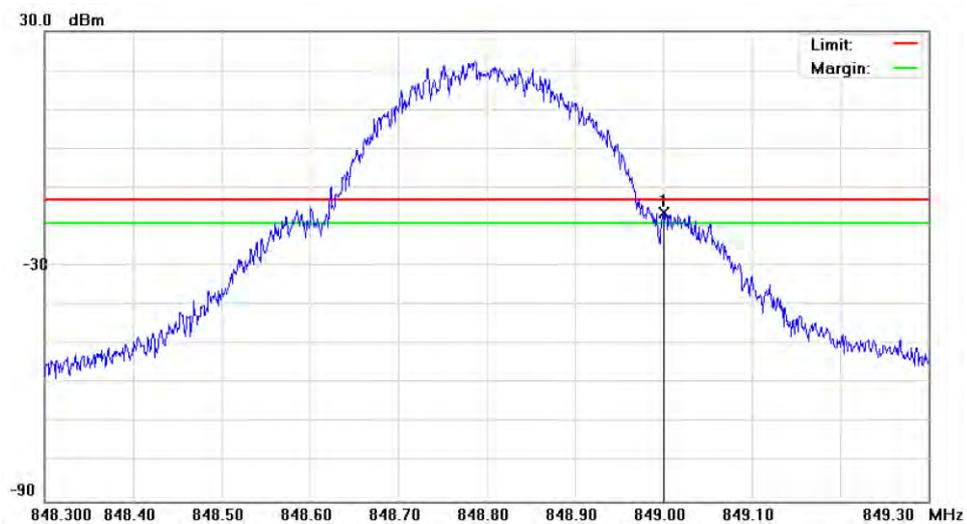
Band Edge

Model Number	PD98120				
Test Item	Band Edge				
Test Mode	Mode 1: GSM 850 Link (GSM power amplifier #1)				
Date of Test	10/15/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	128	824.0000	-15.66	-13	Pass
Higher	251	849.0000	-16.41	-13	Pass

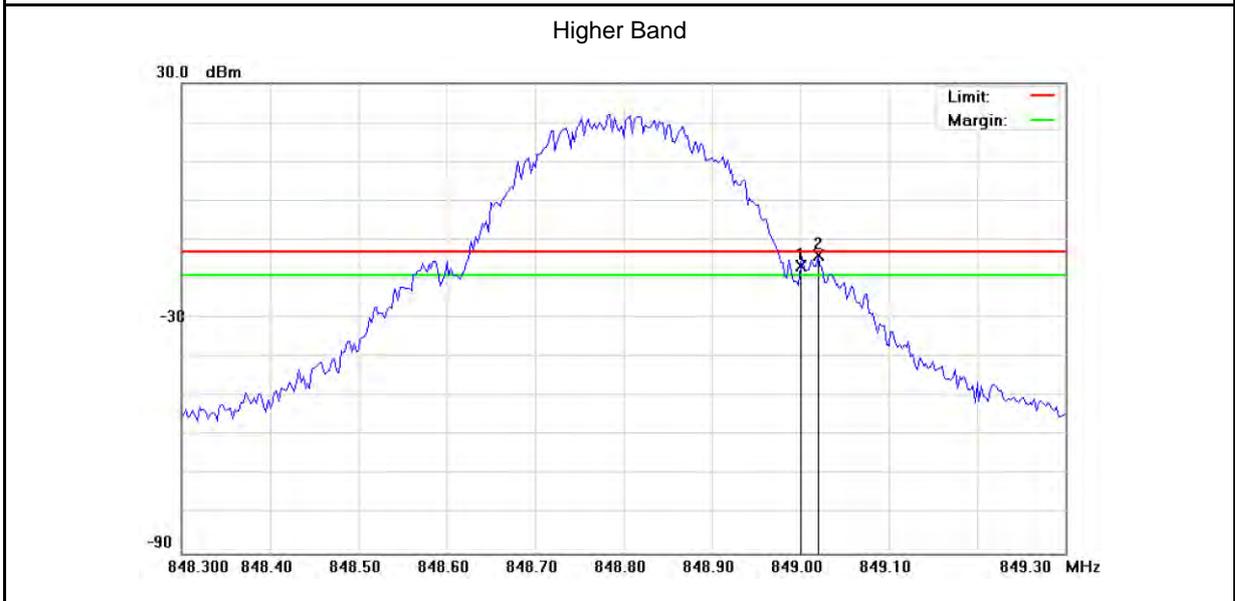
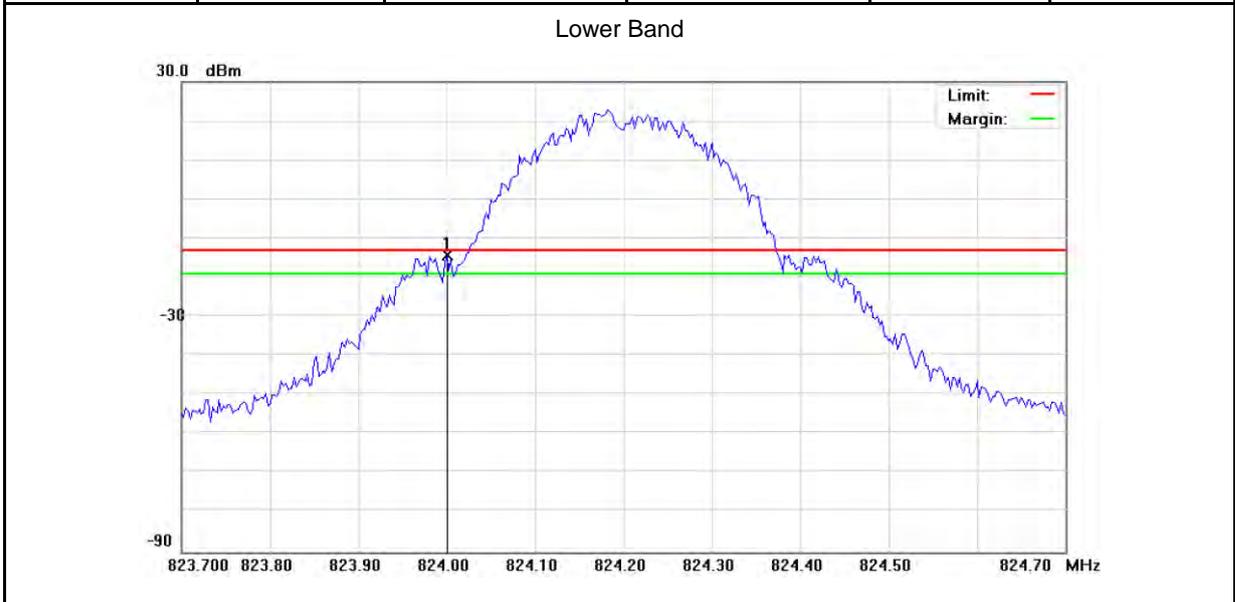
Lower Band



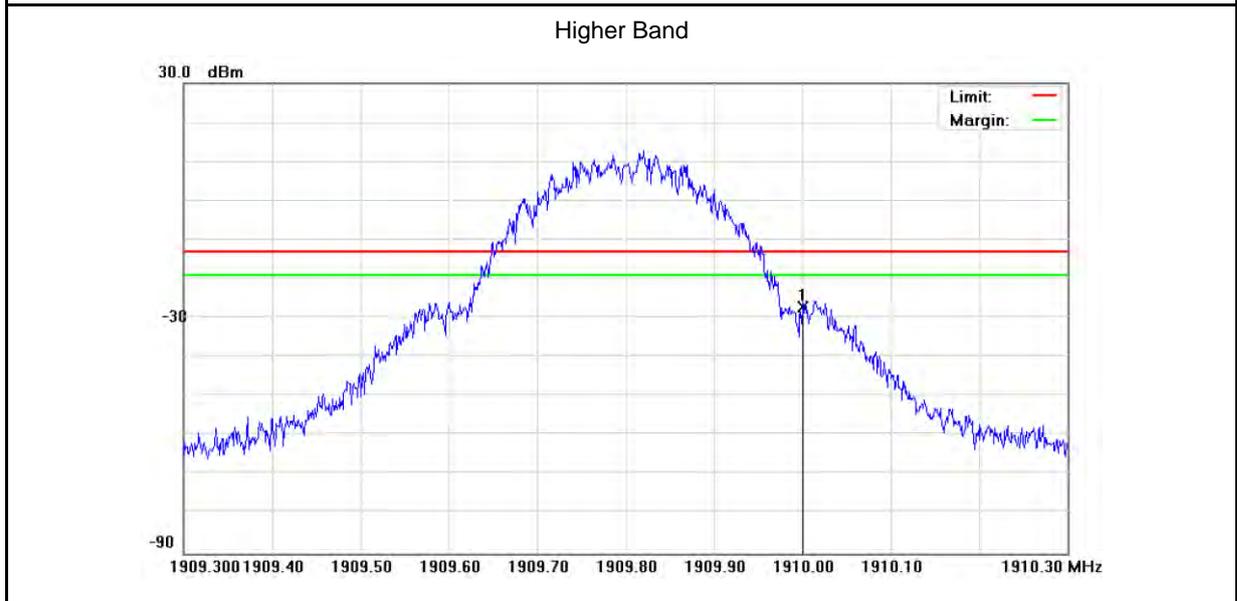
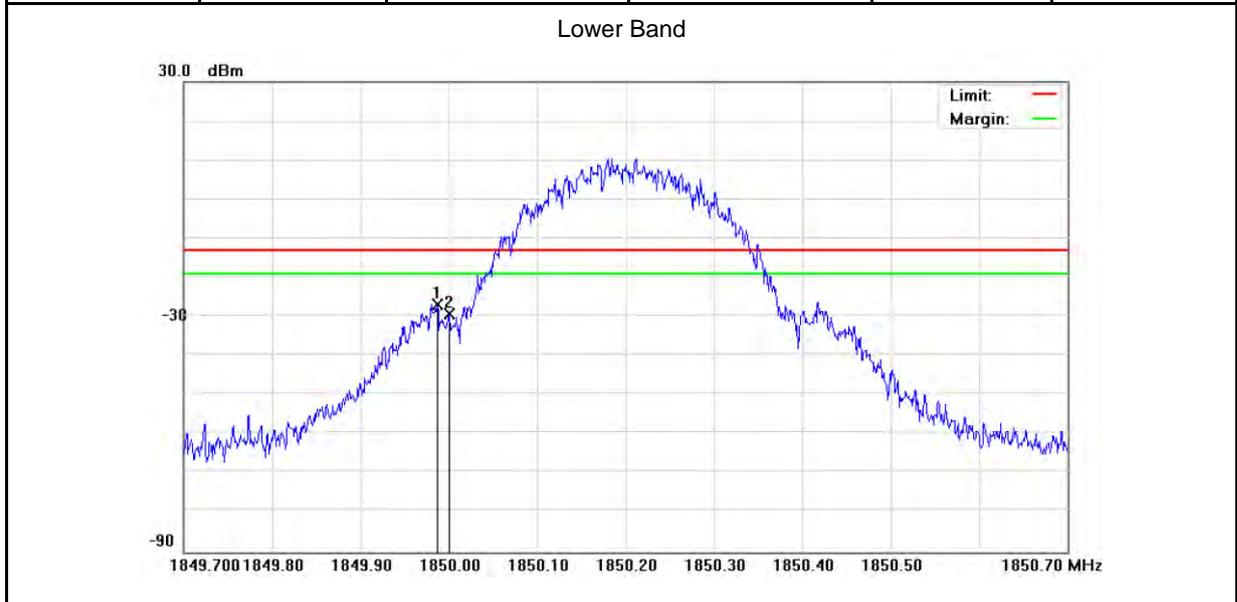
Higher Band



Model Number	PD98120				
Test Item	Band Edge				
Test Mode	Mode 1: GSM 850 Link (GSM power amplifier #2)				
Date of Test	10/18/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	128	824.0000	-14.17	-13	Pass
Higher	251	849.0200	-13.81	-13	Pass

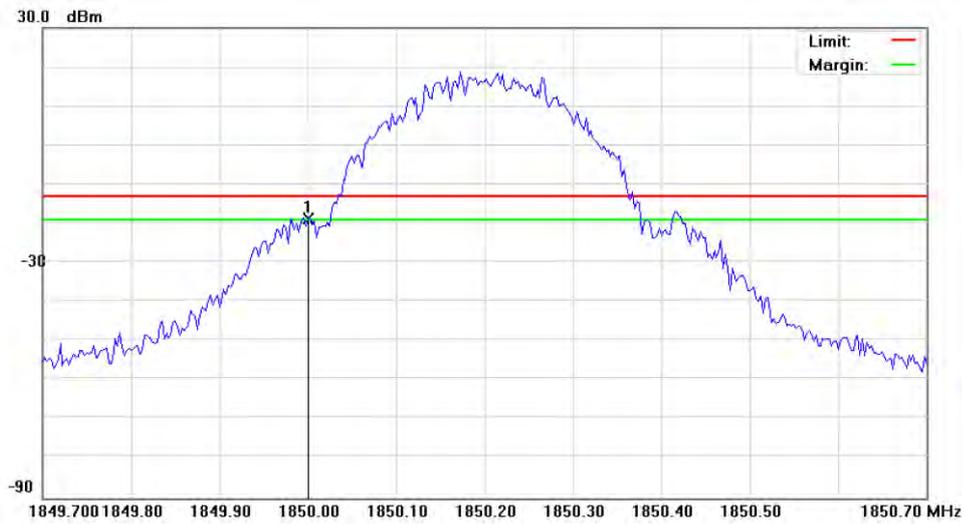


Model Number	PD98120				
Test Item	Band Edge				
Test Mode	Mode 2: GSM 1900 Link (GSM power amplifier #1)				
Date of Test	10/15/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	512	1849.967	-26.78	-13	Pass
Higher	810	1910.000	-27.09	-13	Pass

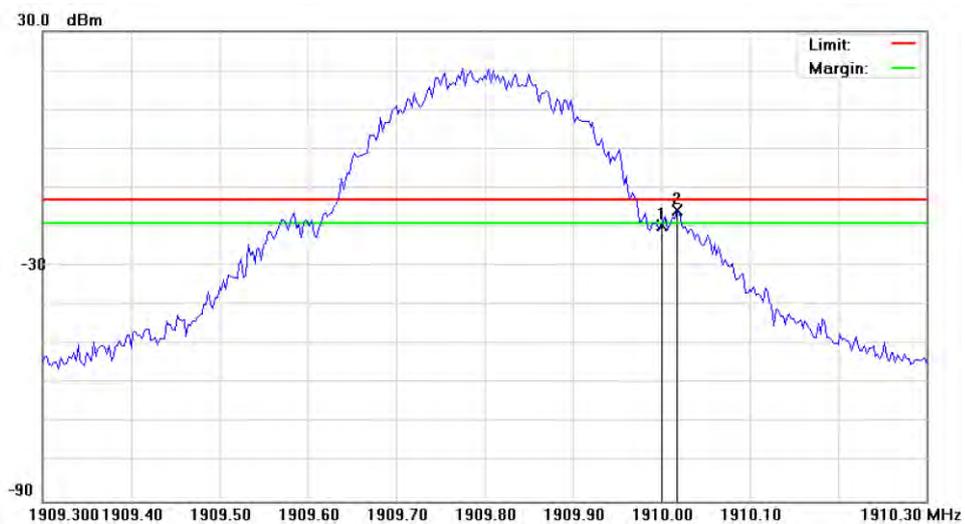


Model Number	PD98120				
Test Item	Band Edge				
Test Mode	Mode 2: GSM 1900 Link (GSM power amplifier #2)				
Date of Test	10/18/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	512	1850.000	-18.81	-13	Pass
Higher	810	1910.017	-15.78	-13	Pass

Lower Band

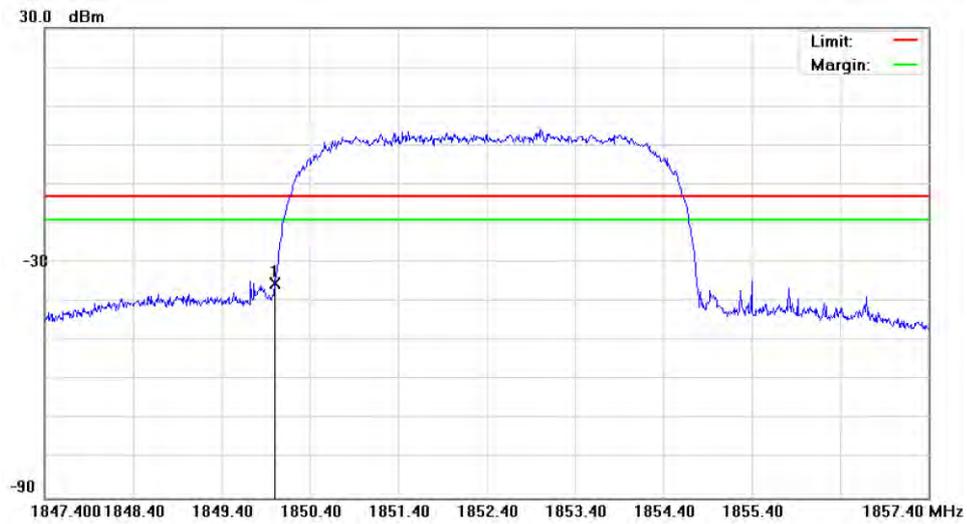


Higher Band

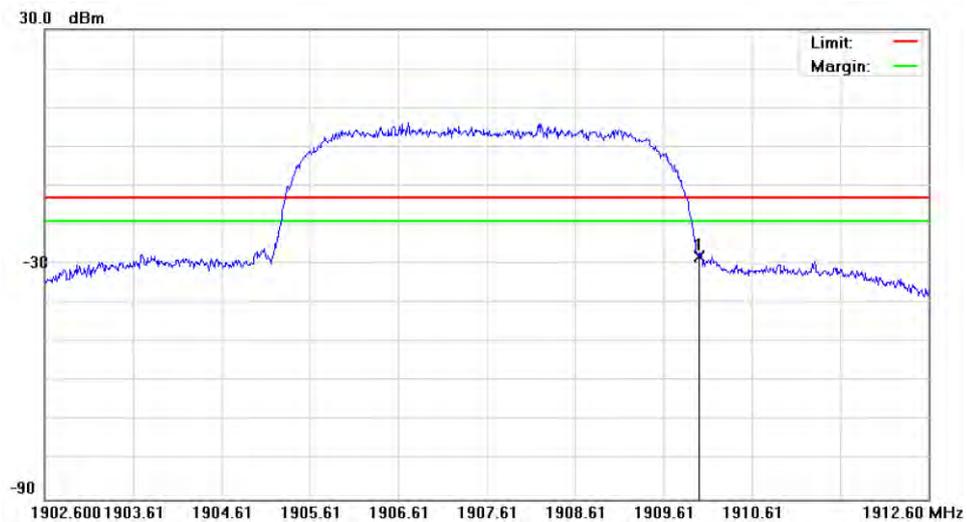


Model Number	PD98120				
Test Item	Band Edge				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	10/13/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	9262	1850.000	-35.20	-13	Pass
Higher	9538	1910.000	-28.13	-13	Pass

Lower Band

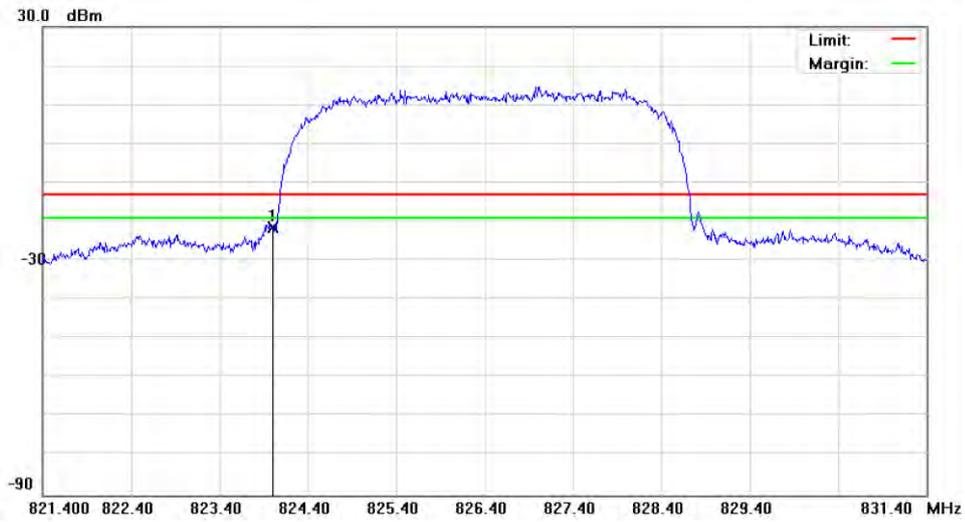


Higher Band

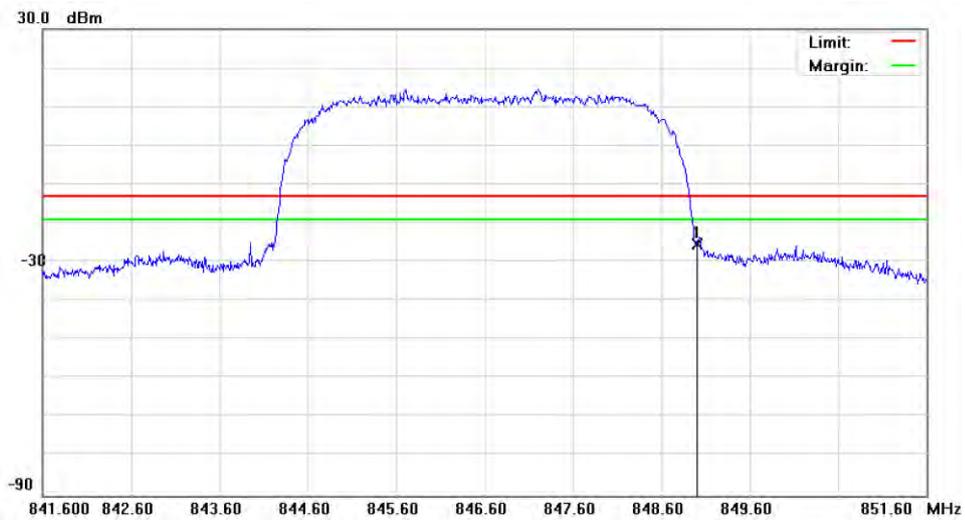


Model Number	PD98120				
Test Item	Band Edge				
Test Mode	Mode 4: WCDMA Band V Link				
Date of Test	10/13/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	4132	824.0000	-21.43	-13	Pass
Higher	4233	849.0000	-25.20	-13	Pass

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 $43 + 10\log(P)$ dB.

5.2. Test Instruments

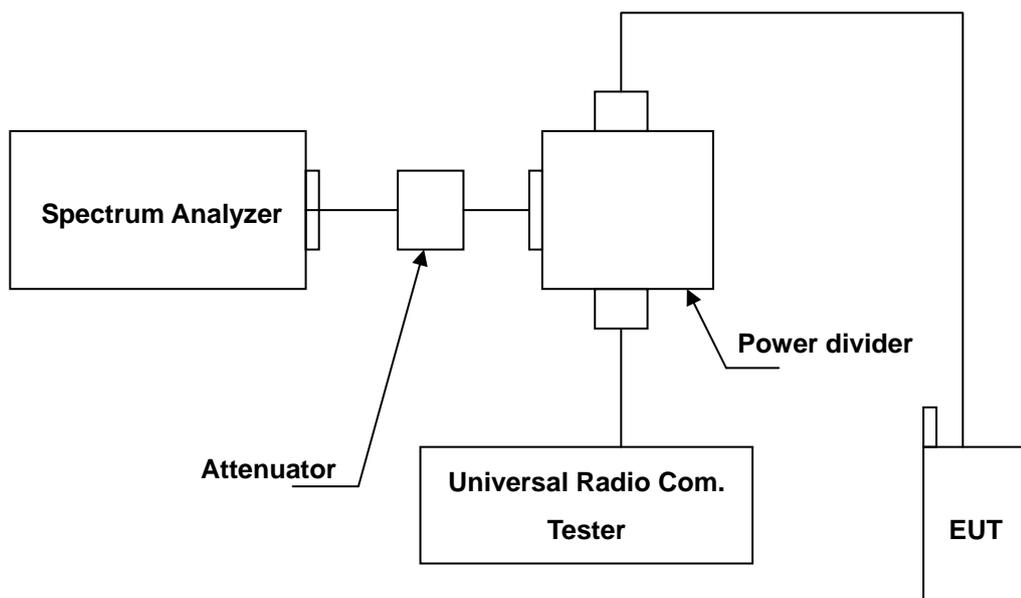
Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2009	(2)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

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

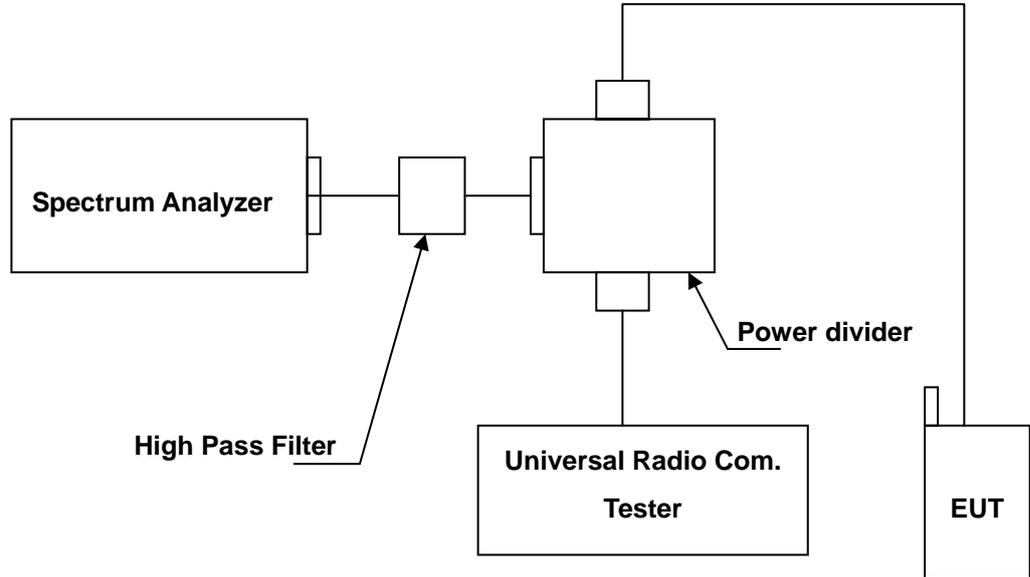
NOTE: N.C.R. = No Calibration Request.

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.

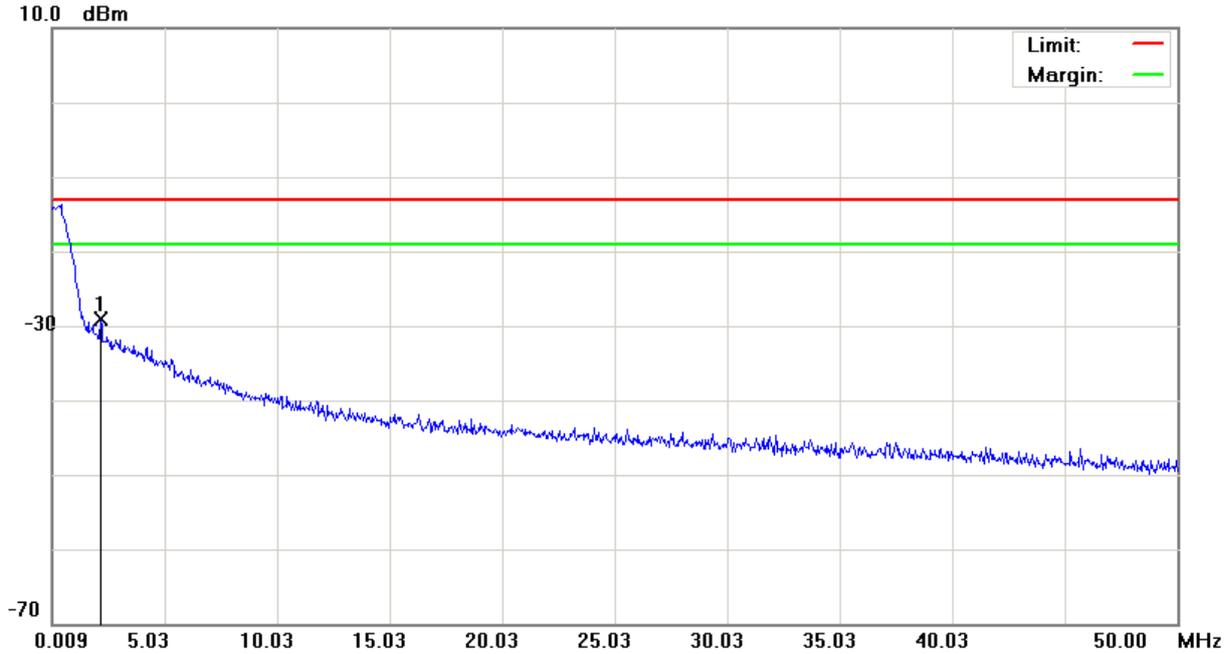
5.5. Uncertainty

The measurement uncertainty is evaluated as ± 2.24 dB.

5.6. Test Result

Model Number	PD98120		
Test Item	Conducted Emission		
Mode	Mode 1: GSM 850 Link Mode 2: GSM 1900 Link Mode 3: WCDMA Band II Link Mode 4: WCDMA Band V Link		
Date of Test	10/13 ~ 10/18/2010	Test Site	TE02

File:PD98120(CH128) Data :#1 Date:2010/10/15 Time: 上午 10:31:56

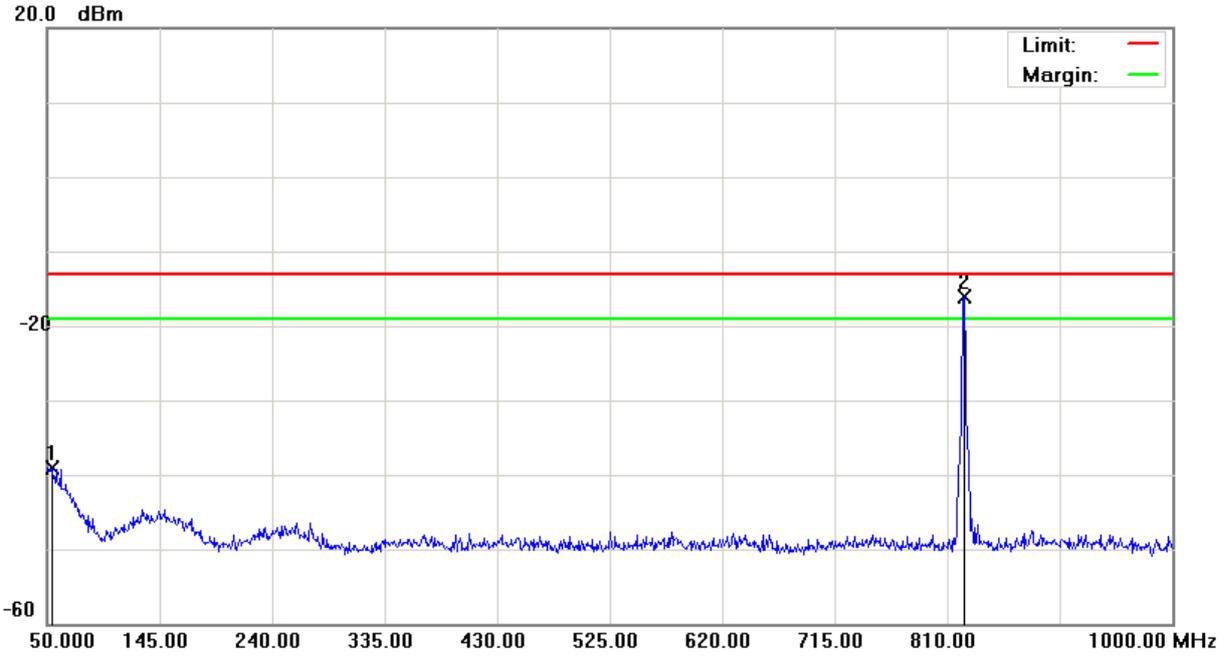


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.1585	-60.45	31.41	-29.04	-13.00	-16.04	peak		

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

File: PD98120(CH128) Data: #2 Date: 2010/10/15 Time: 上午 10:32:20

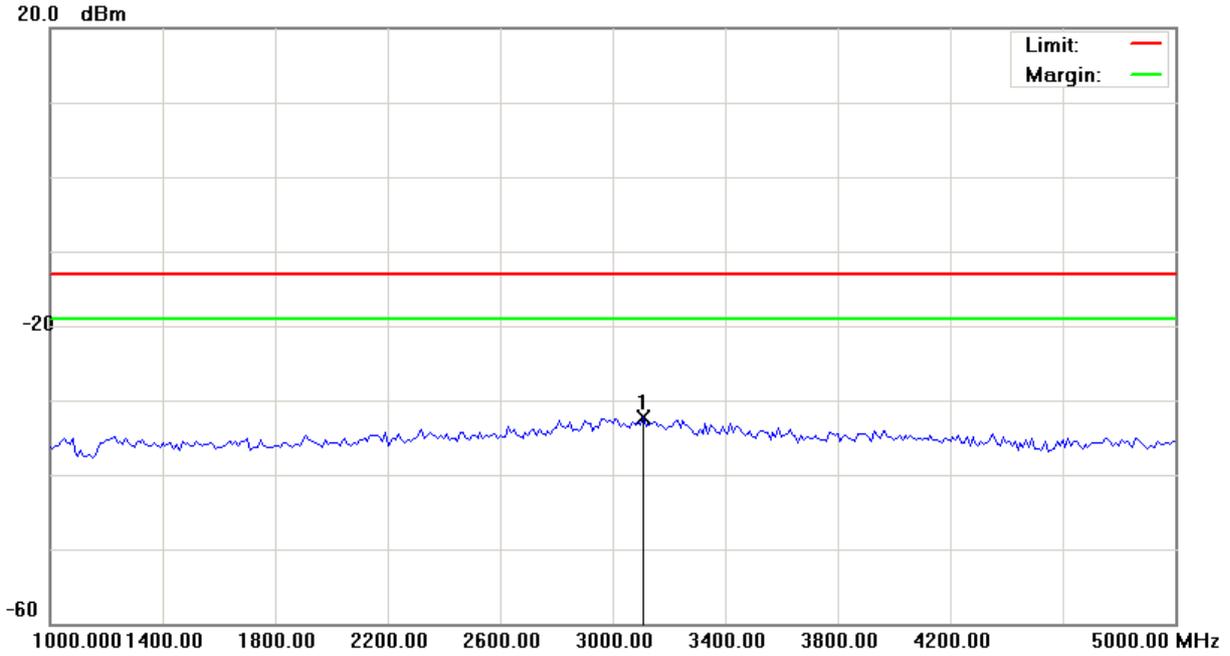


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		53.8000	-53.09	14.02	-39.07	-13.00	-26.07	peak		
2	*	824.2500	-19.98	3.84	-16.14	-13.00	-3.14	peak		TX

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

File: PD98120(CH128) Data: #3 Date: 2010/10/15 Time: 上午 10:55:39

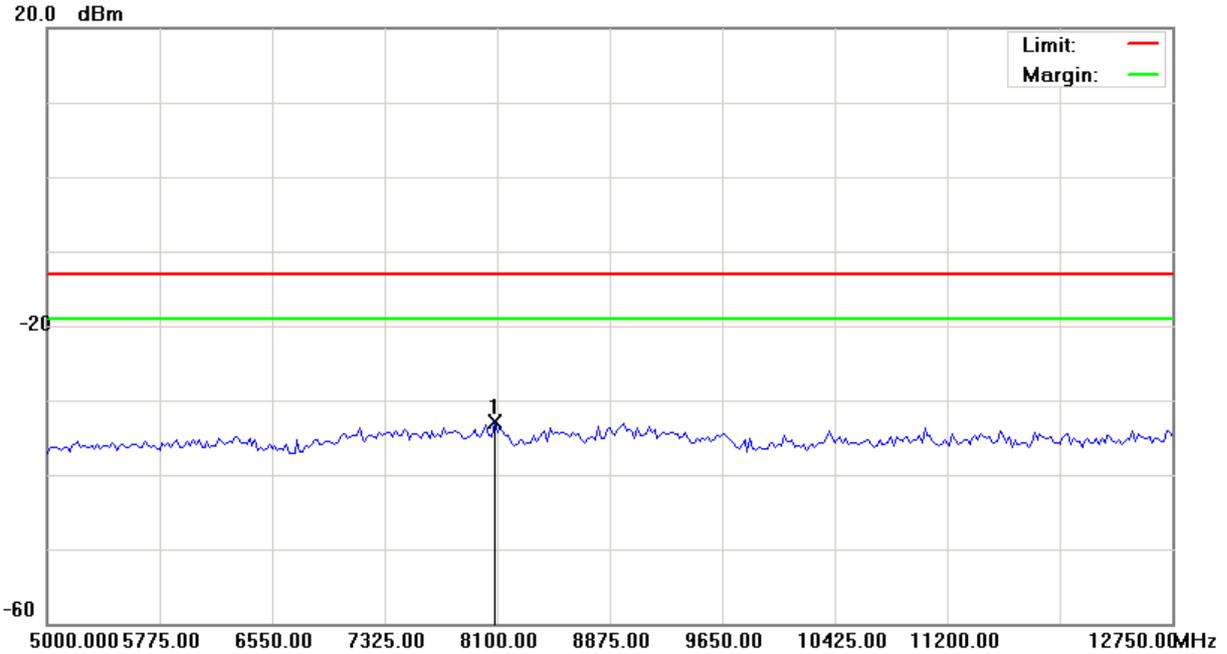


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	3110.000	-36.90	4.56	-32.34	-13.00	-19.34	peak		

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

File:PD98120(CH128) Data :#4 Date:2010/10/15 Time: 上午 10:56:02

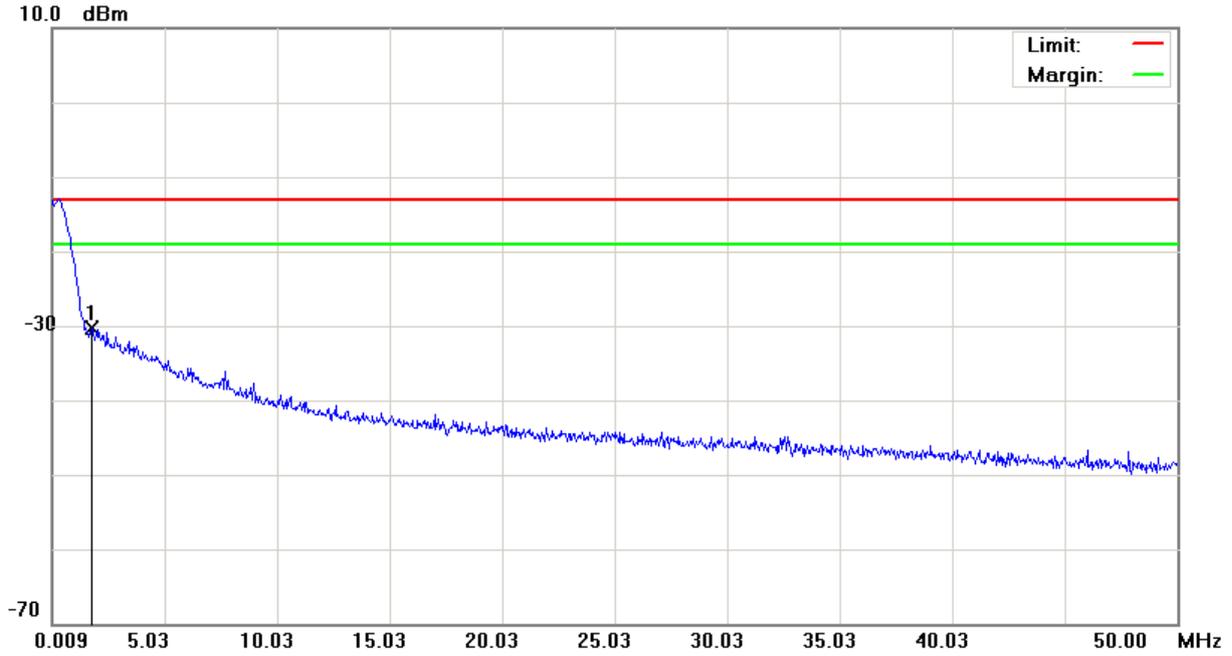


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	8080.625	-38.35	5.52	-32.83	-13.00	-19.83	peak		

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

File:PD98120(CH190) Data: #1 Date: 2010/10/15 Time: 上午 10:41:55

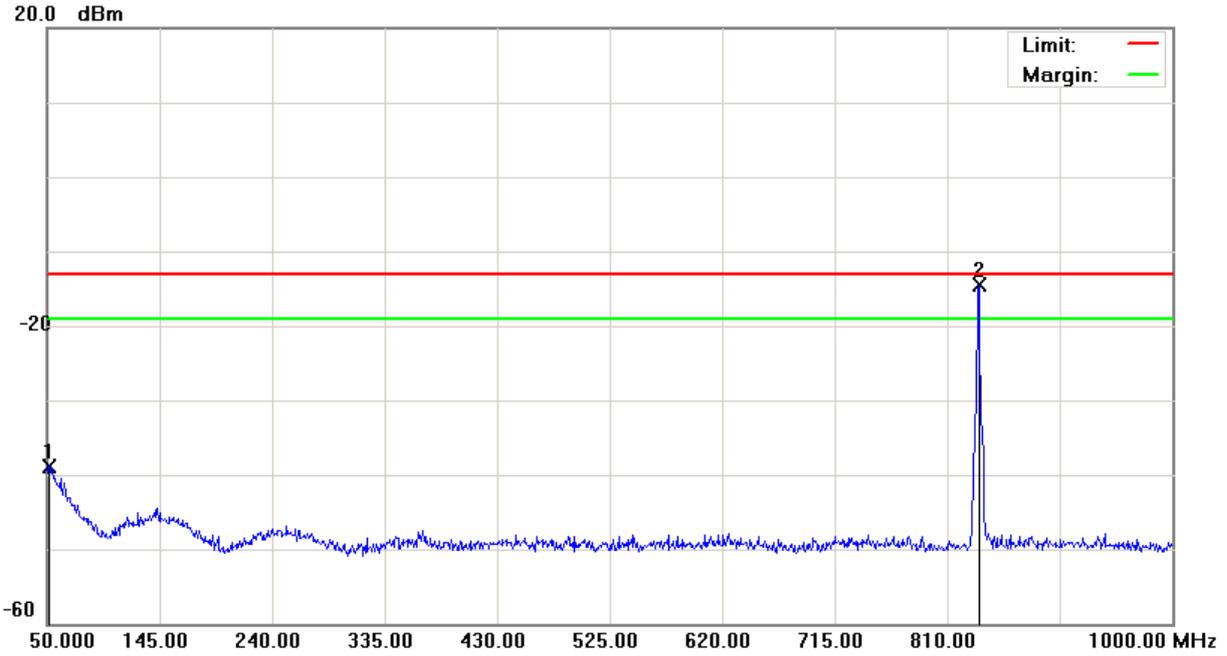


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH190(836.6MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1.7586	-61.39	31.05	-30.34	-13.00	-17.34	peak		

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

File: PD98120(CH190) Data: #2 Date: 2010/10/15 Time: 上午 10:42:19

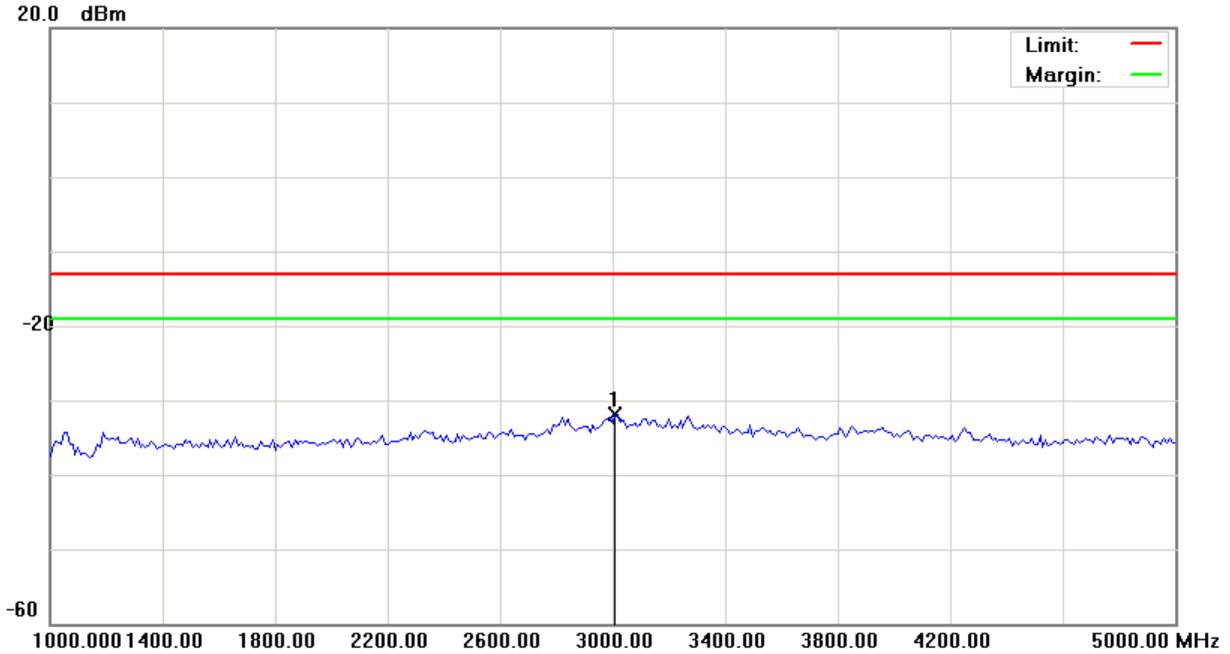


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH190(836.6MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		51.9000	-53.16	14.36	-38.80	-13.00	-25.80	peak		
2	*	836.6000	-18.40	3.96	-14.44	-13.00	-1.44	peak		TX

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

File:PD98120(CH190) Data :#3 Date:2010/10/15 Time: 上午 10:57:14

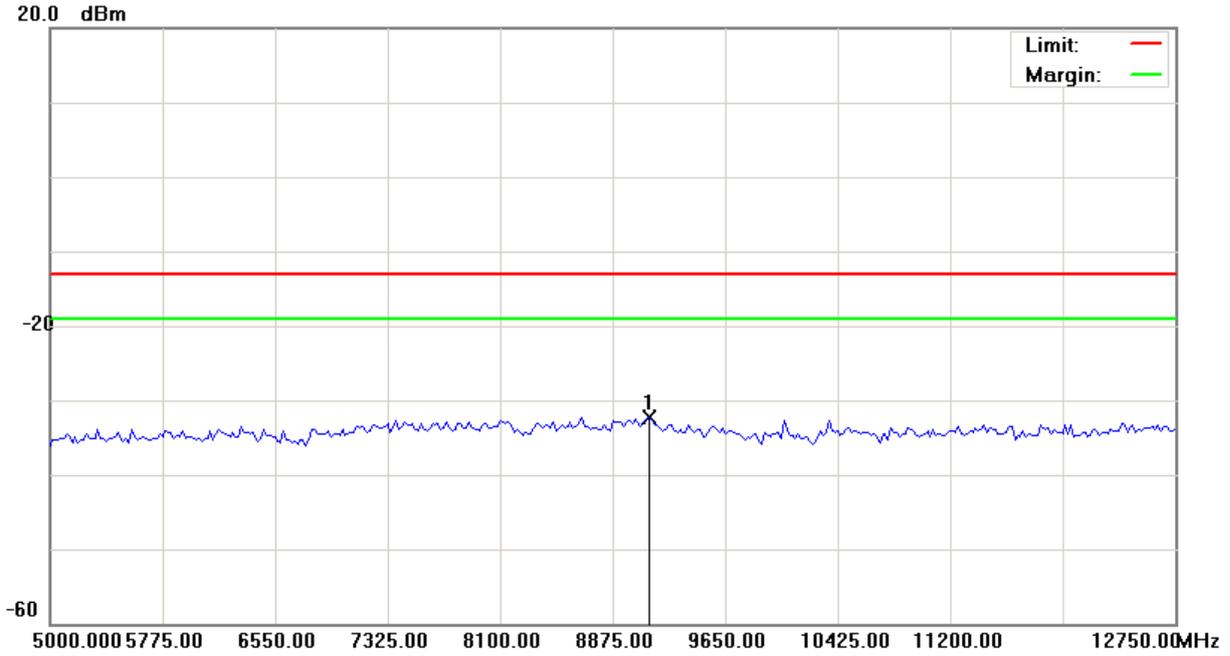


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH190(836.6MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	3010.000	-36.36	4.48	-31.88	-13.00	-18.88	peak		

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

File: PD98120(CH190) Data: #4 Date: 2010/10/15 Time: 上午 10:57:38

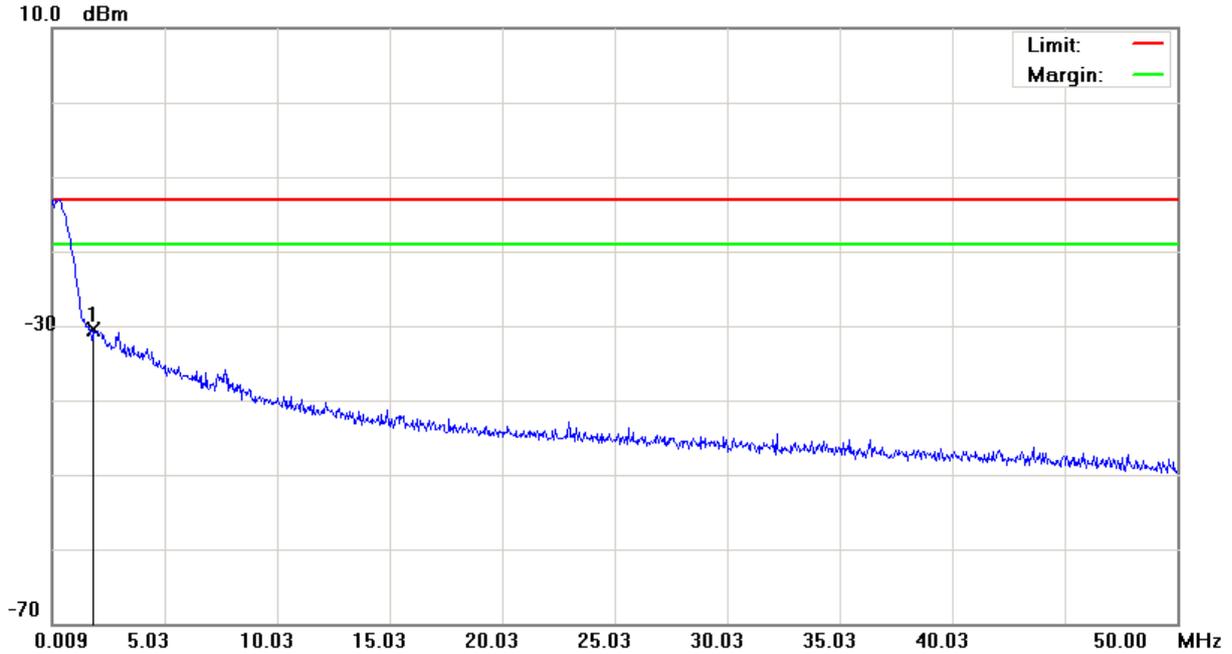


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH190(836.6MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	9126.875	-38.16	5.80	-32.36	-13.00	-19.36	peak		

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

File:PD98120(CH251) Data: #1 Date: 2010/10/15 Time: 上午 10:44:10

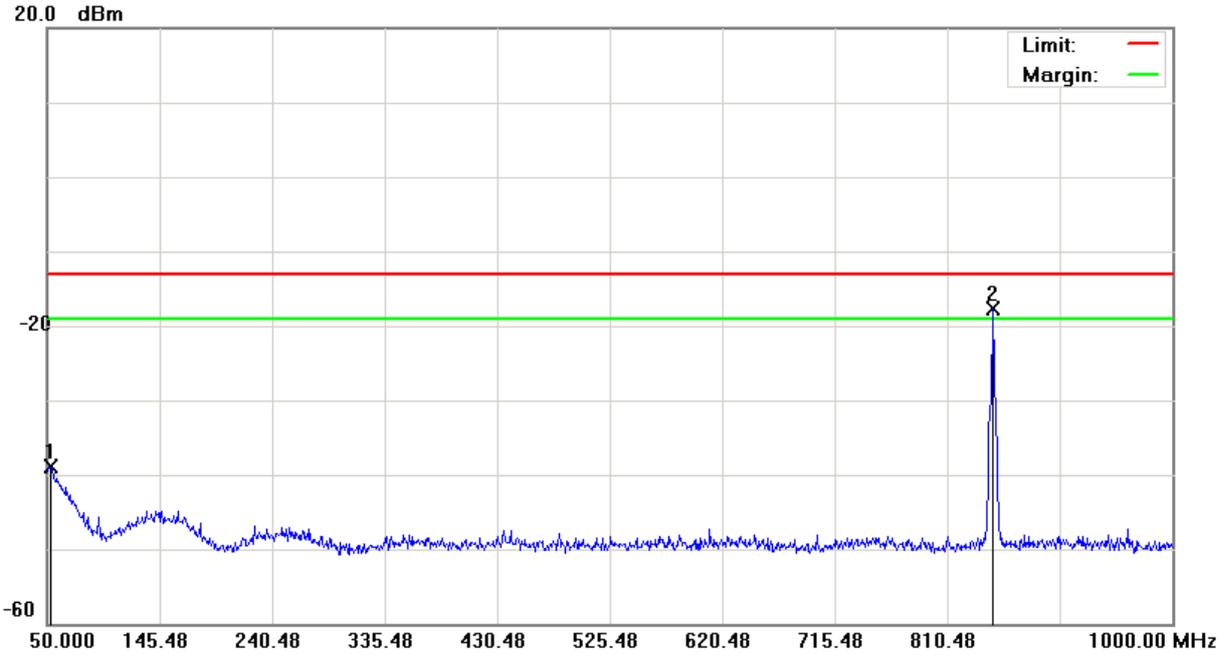


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1.8587	-61.73	31.15	-30.58	-13.00	-17.58	peak		

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

File:PD98120(CH251) Data :#2 Date:2010/10/15 Time: 上午 10:44:34

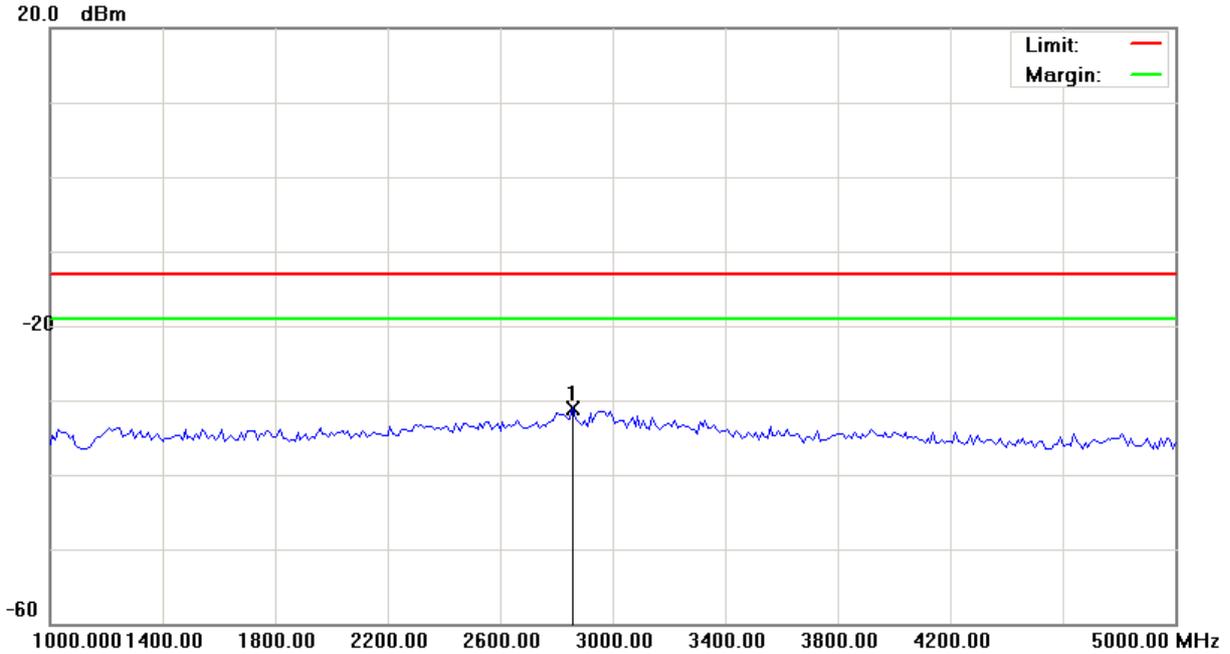


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		52.8500	-53.08	14.19	-38.89	-13.00	-25.89	peak		
2	*	848.9500	-21.72	3.98	-17.74	-13.00	-4.74	peak		TX

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

File:PD98120(CH251) Data :#3 Date:2010/10/15 Time: 上午 10:58:55

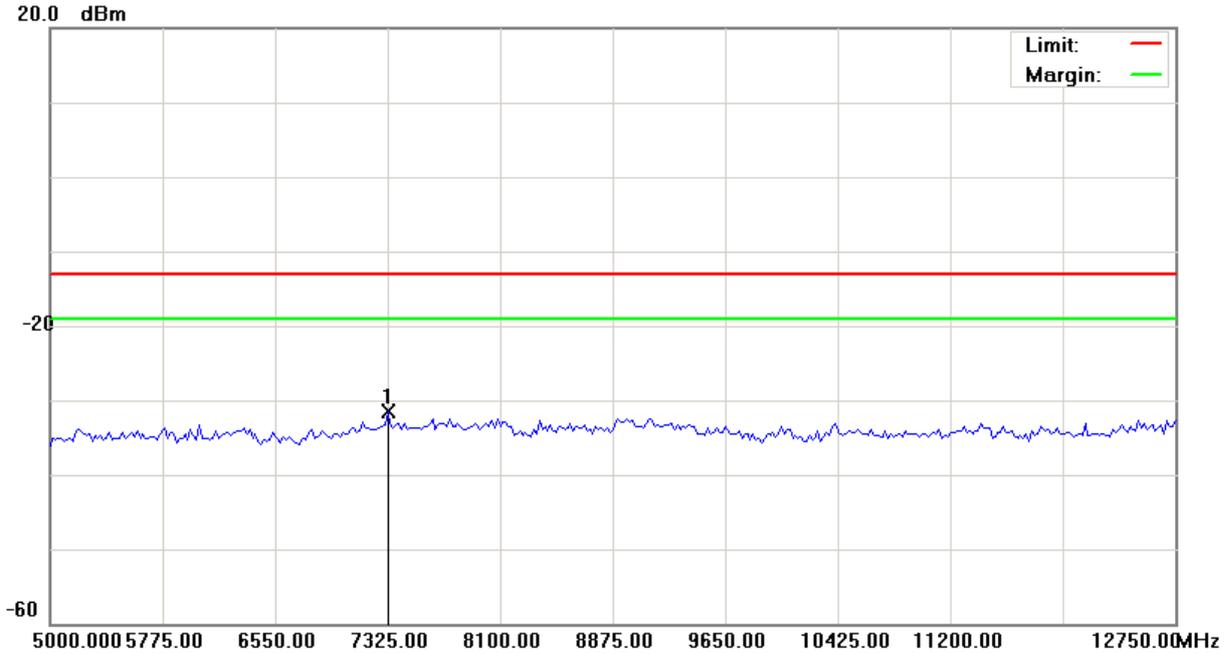


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2860.000	-35.55	4.55	-31.00	-13.00	-18.00	peak		

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

File: PD98120(CH251) Data: #4 Date: 2010/10/15 Time: 上午 10:59:19

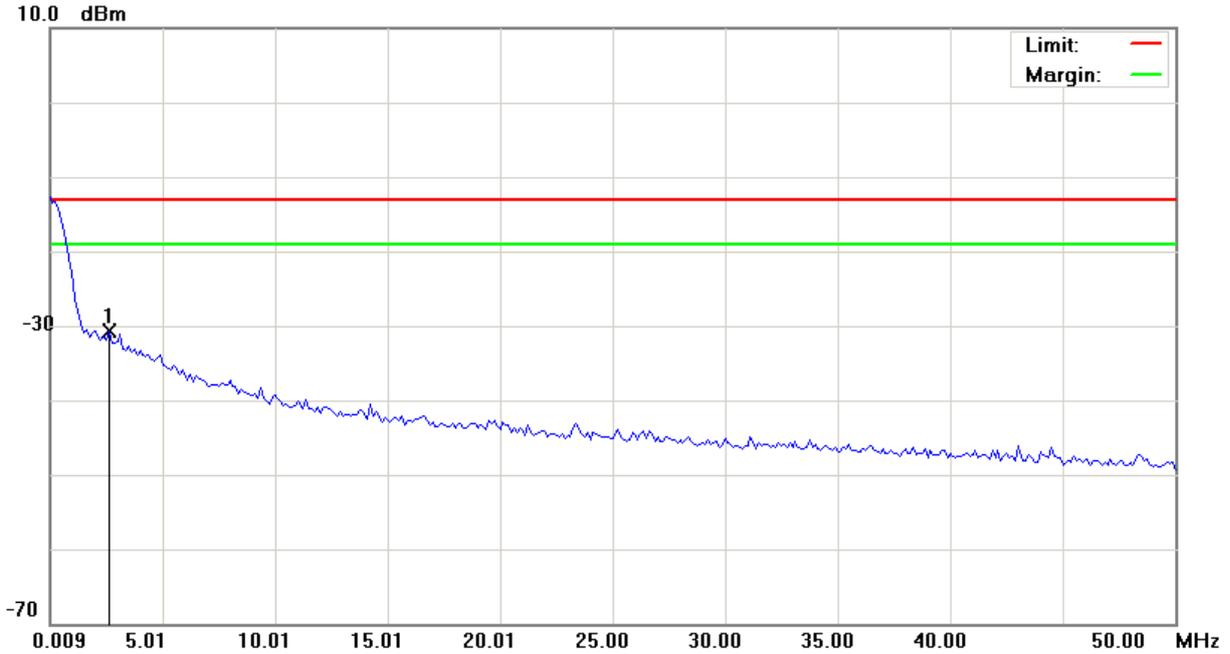


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #1)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	7325.000	-36.58	5.10	-31.48	-13.00	-18.48			peak

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

File:PD98120(CH128) Data: #1 Date: 2010/10/18 Time: 下午 03:17:19



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.6335	-61.16	30.54	-30.62	-13.00	-17.62	peak		

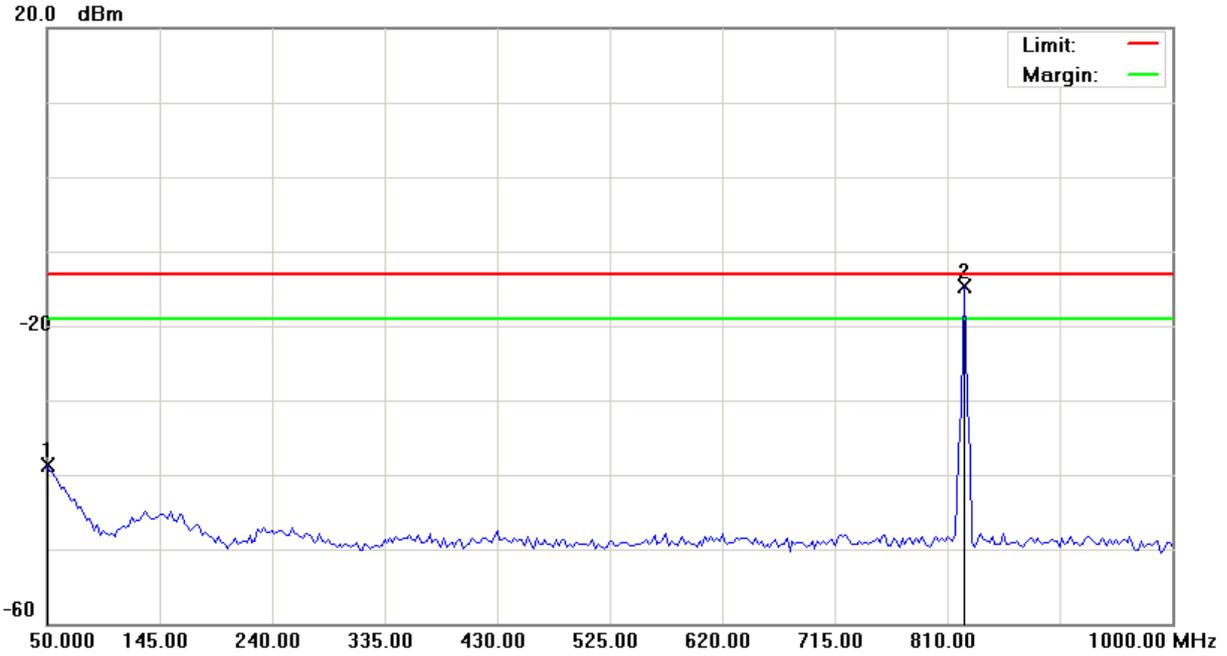
*:Maximum data x:Over limit !:over margin

File: PD98120(CH128)

Data: #2

Date: 2010/10/18

Time: 下午 03:17:39



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-53.33	14.69	-38.64	-13.00	-25.64	peak		
2	*	824.2500	-18.57	3.84	-14.73	-13.00	-1.73	peak		TX

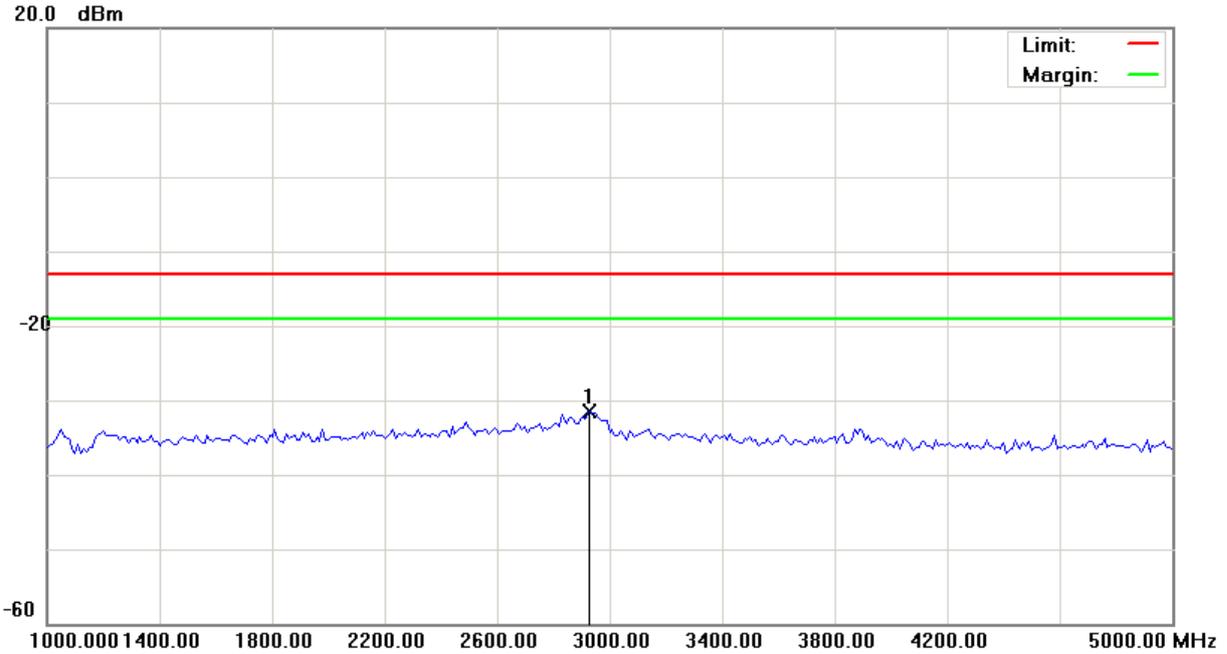
*:Maximum data x:Over limit !:over margin

File: PD98120(CH128)

Data: #3

Date: 2010/10/18

Time: 下午 03:54:41



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	2930.000	-36.21	4.65	-31.56	-13.00	-18.56	peak		

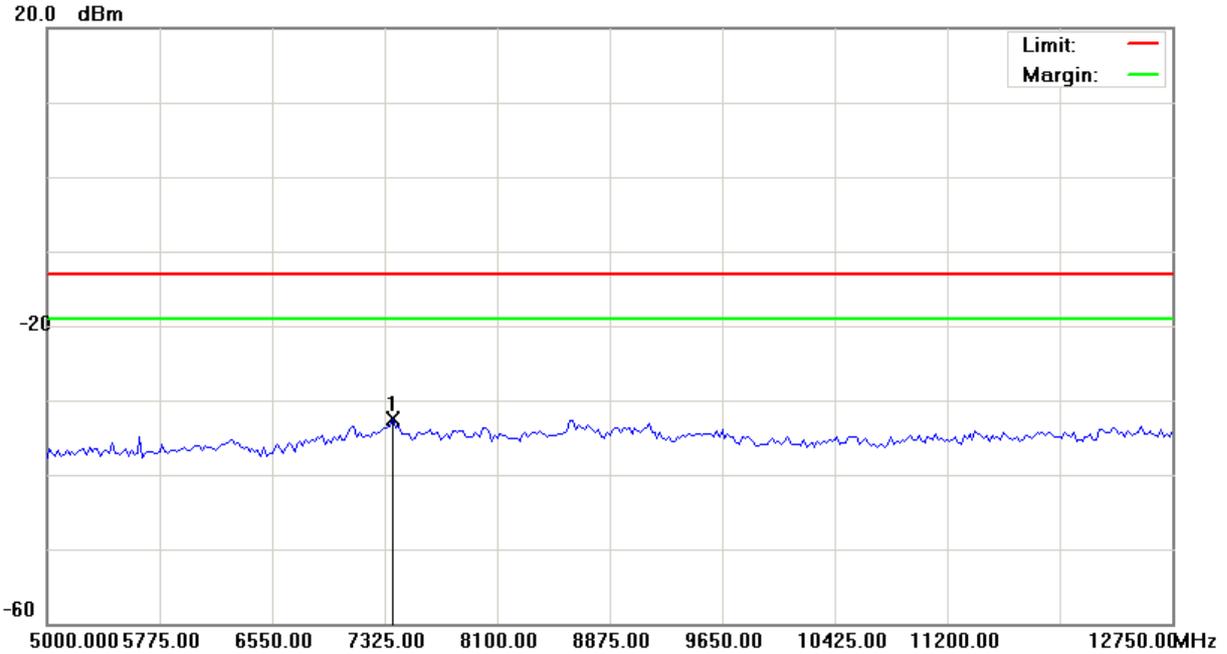
*:Maximum data x:Over limit !:over margin

File: PD98120(CH128)

Data: #4

Date: 2010/10/18

Time: 下午 03:55:03

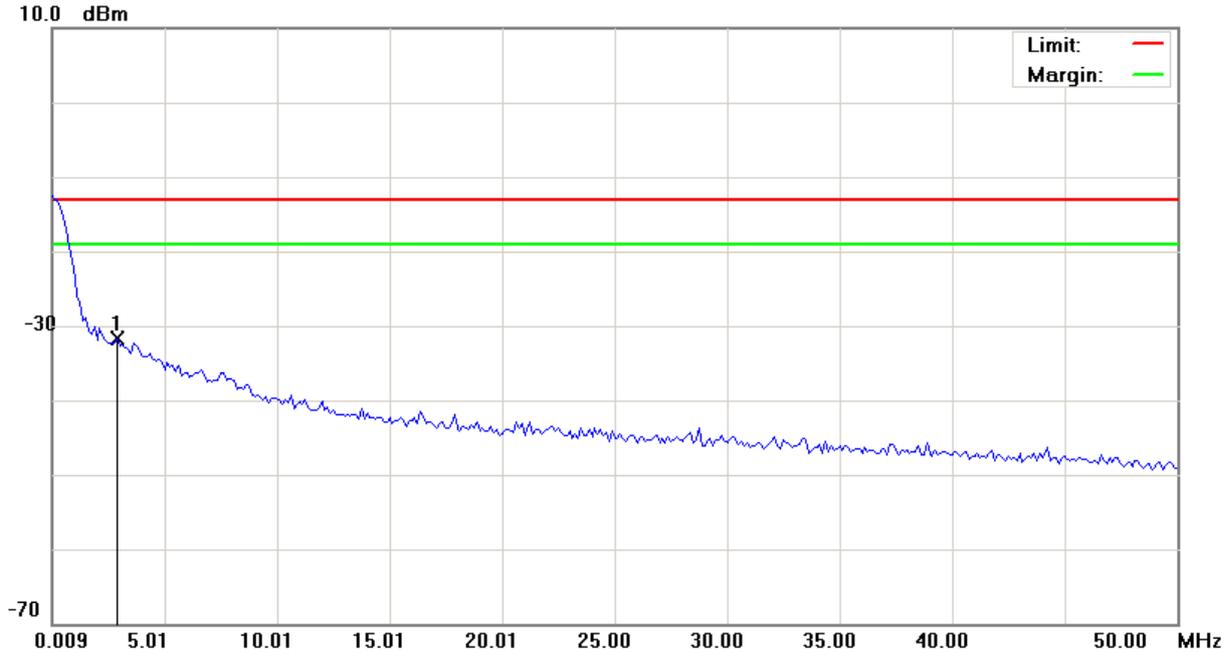


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH128(824.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	7383.125	-37.69	5.14	-32.55	-13.00	-19.55	peak		

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

File:PD98120(CH190) Data: #1 Date: 2010/10/18 Time: 下午 03:19:19

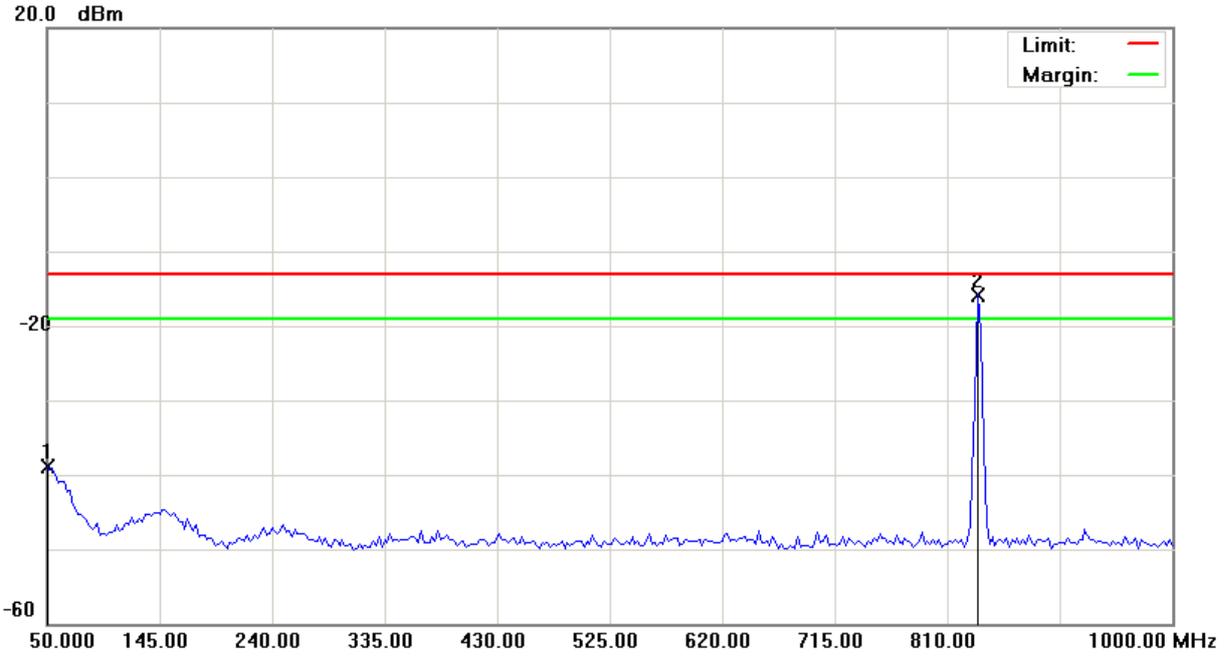


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH190(836.6MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.8835	-62.43	30.69	-31.74	-13.00	-18.74	peak		

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

File:PD98120(CH190) Data :#2 Date:2010/10/18 Time: 下午 03:19:38

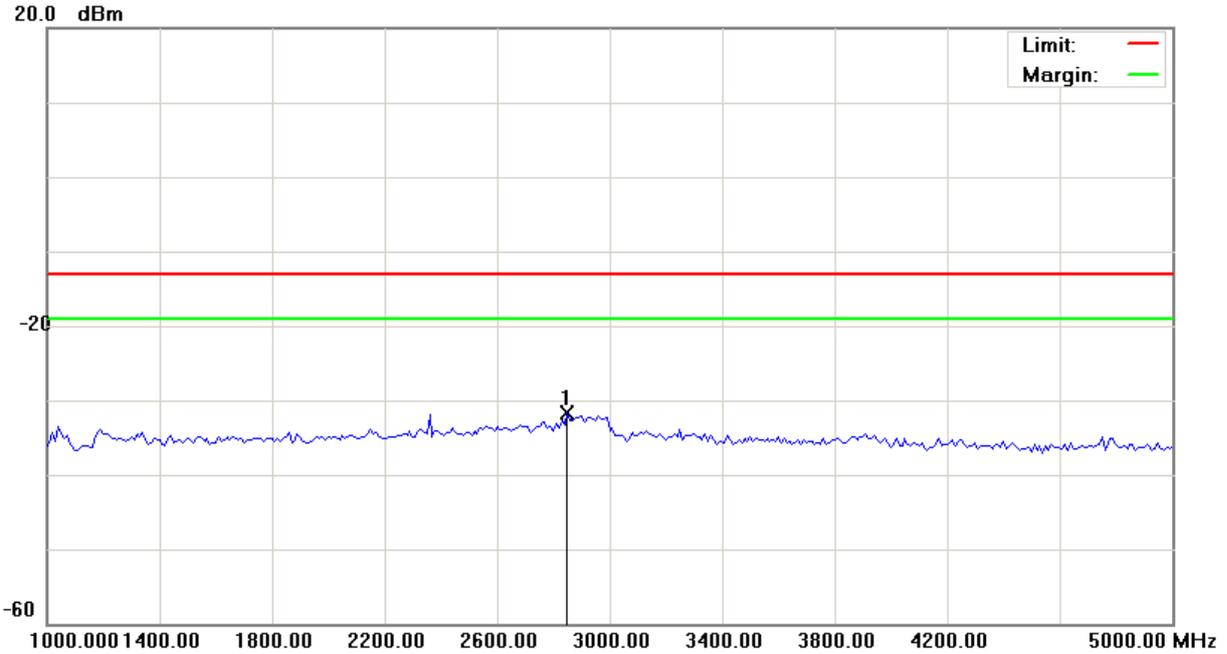


Site: : RF Conducted Polarization: **Conducted po** Temperature: 26 °C
 Limit: FCC Part 22 conducted(9k-12.75G) Power: AC 120V/60Hz Humidity: 55 %
 EUT: Smartphone Distance: RBW: 1000 MHz VBW: 1000 MHz
 M/N: PD98120
 Mode: 1 (GSM power amplifier #2)
 Note: CH190(836.6MHz)

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-53.62	14.69	-38.93	-13.00	-25.93	peak		
2	*	836.1250	-19.76	3.96	-15.80	-13.00	-2.80	peak		TX

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

File:PD98120(CH190) Data :#3 Date:2010/10/18 Time: 下午 03:56:16

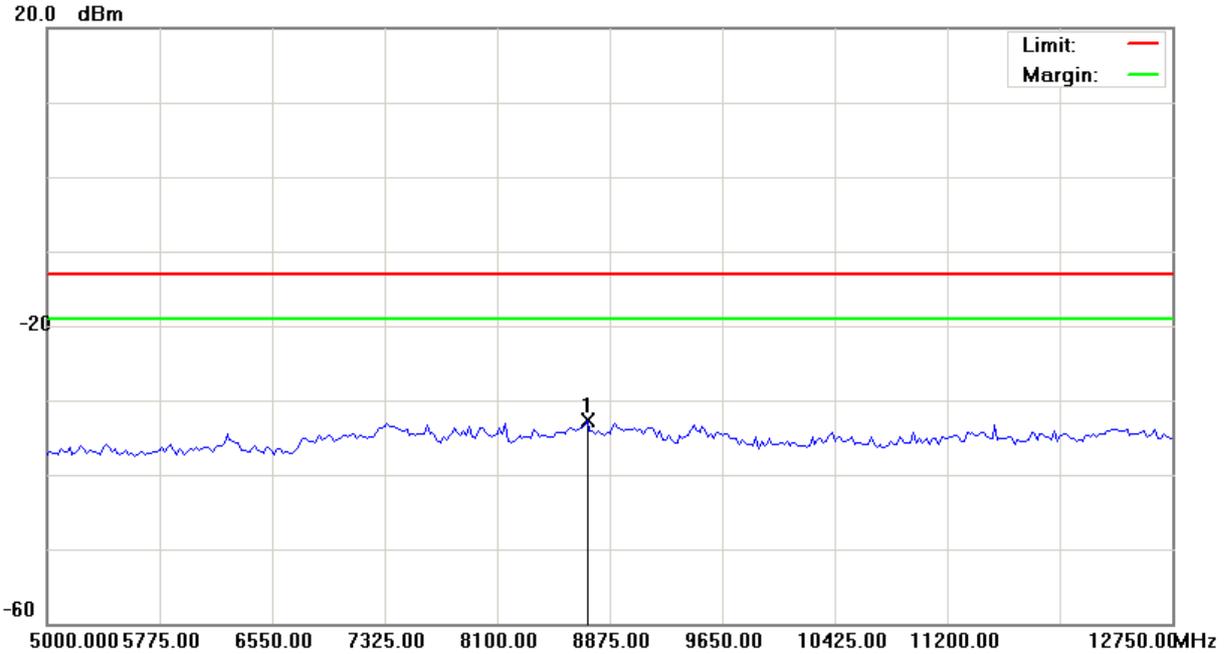


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH190(836.6MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2850.000	-36.26	4.50	-31.76	-13.00	-18.76	peak		

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

File:PD98120(CH190) Data :#4 Date:2010/10/18 Time: 下午 03:56:38



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH190(836.6MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	8720.000	-37.85	5.18	-32.67	-13.00	-19.67	peak		

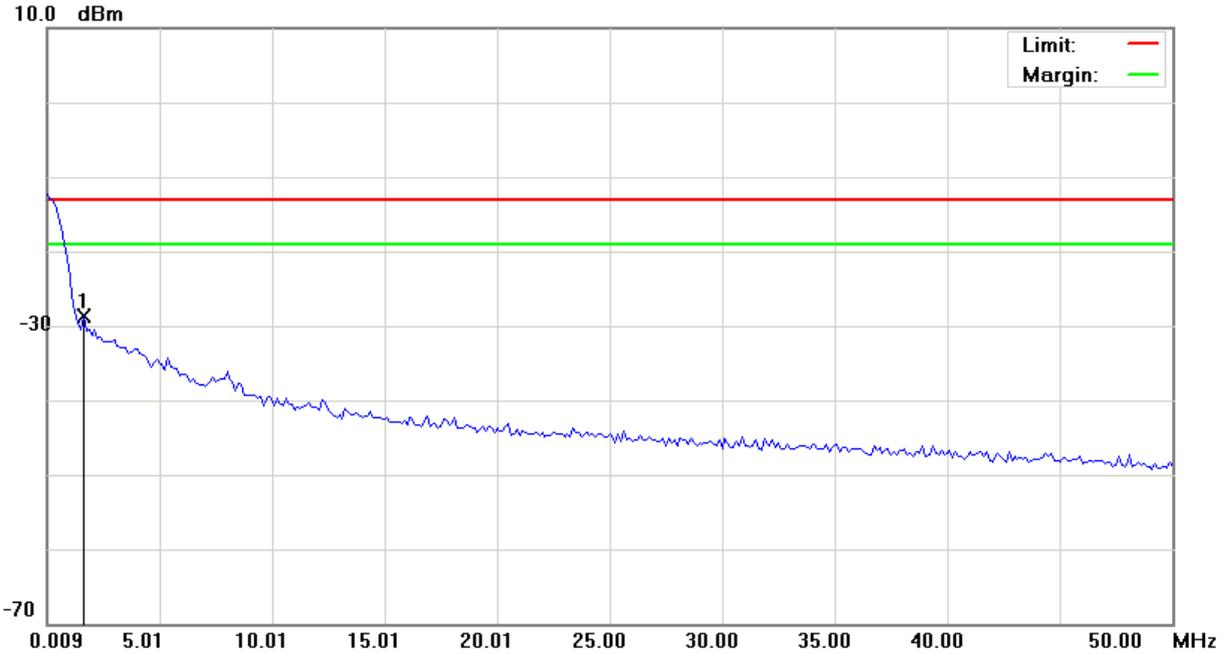
*:Maximum data x:Over limit !:over margin

File:PD98120(CH251)

Data:#1

Date:2010/10/18

Time: 下午 03:21:39

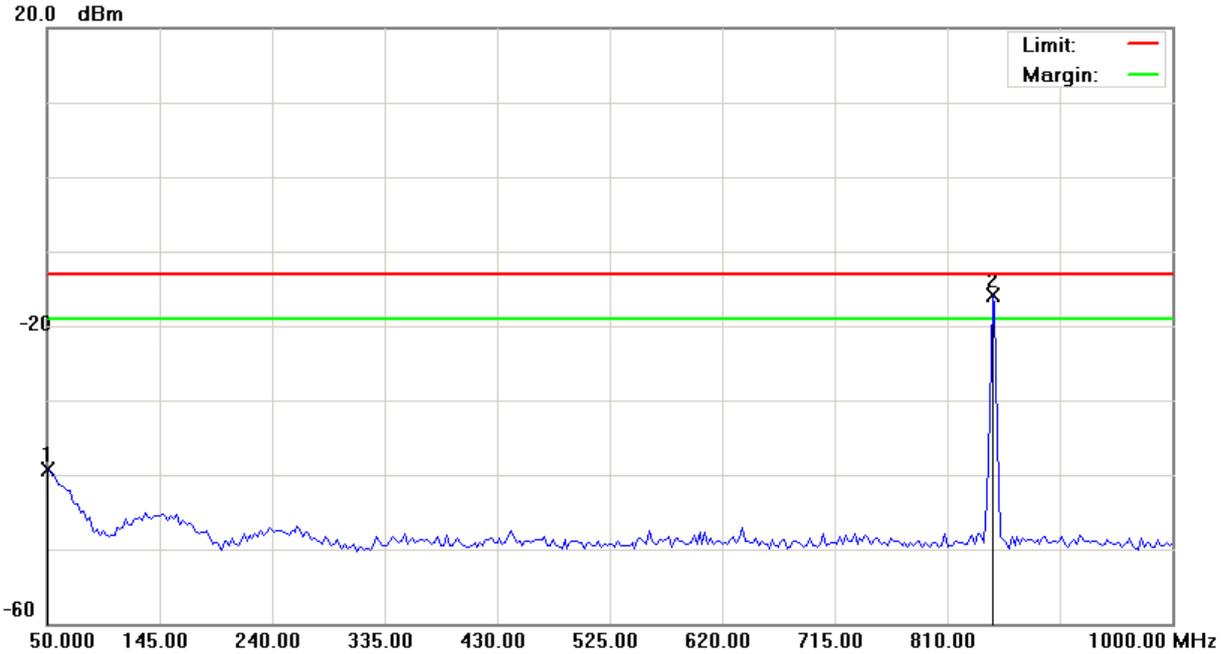


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1.6336	-59.82	31.15	-28.67	-13.00	-15.67	peak		

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

File:PD98120(CH251) Data :#2 Date:2010/10/18 Time: 下午 03:21:58



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-53.96	14.69	-39.27	-13.00	-26.27	peak		
2	*	848.0000	-19.87	3.98	-15.89	-13.00	-2.89	peak		TX

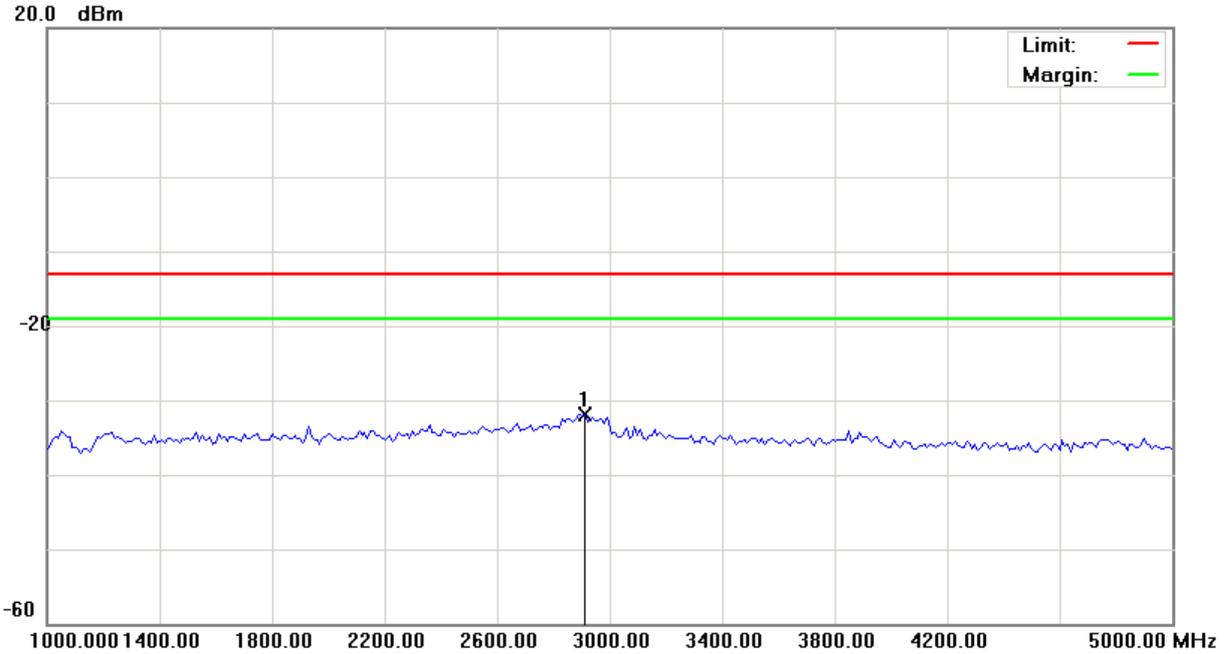
*:Maximum data x:Over limit !:over margin

File: PD98120(CH251)

Data: #3

Date: 2010/10/18

Time: 下午 03:57:30

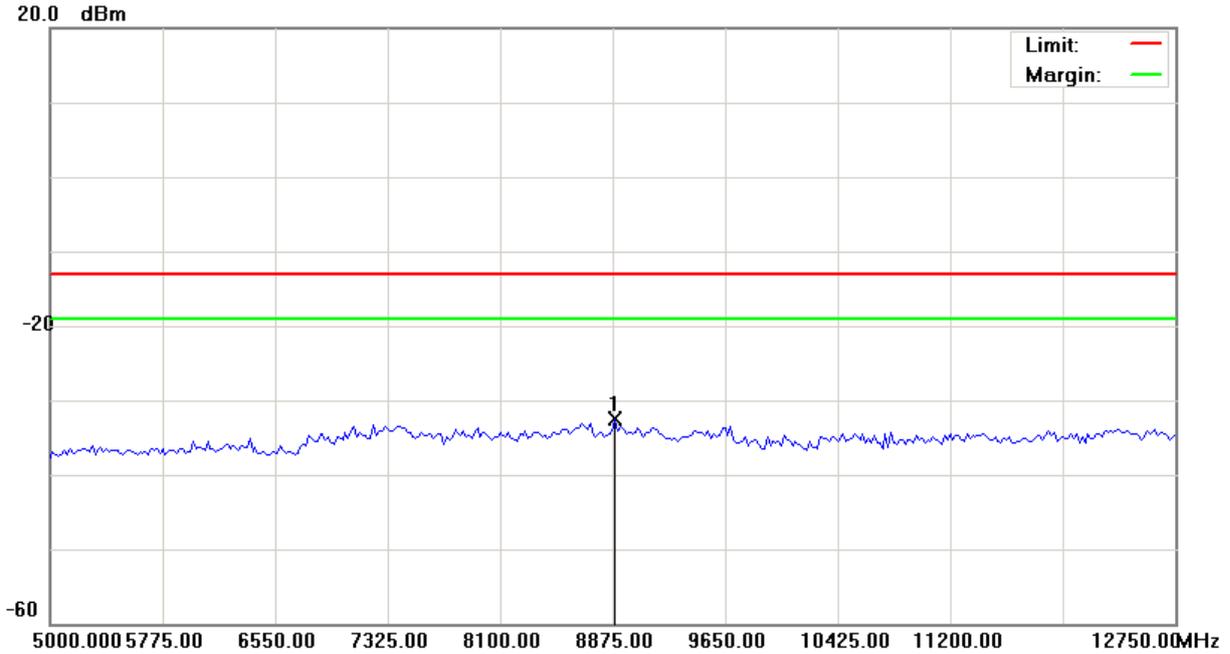


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2910.000	-36.56	4.72	-31.84	-13.00	-18.84	peak		

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

File: PD98120(CH251) Data: #4 Date: 2010/10/18 Time: 下午 03:57:51

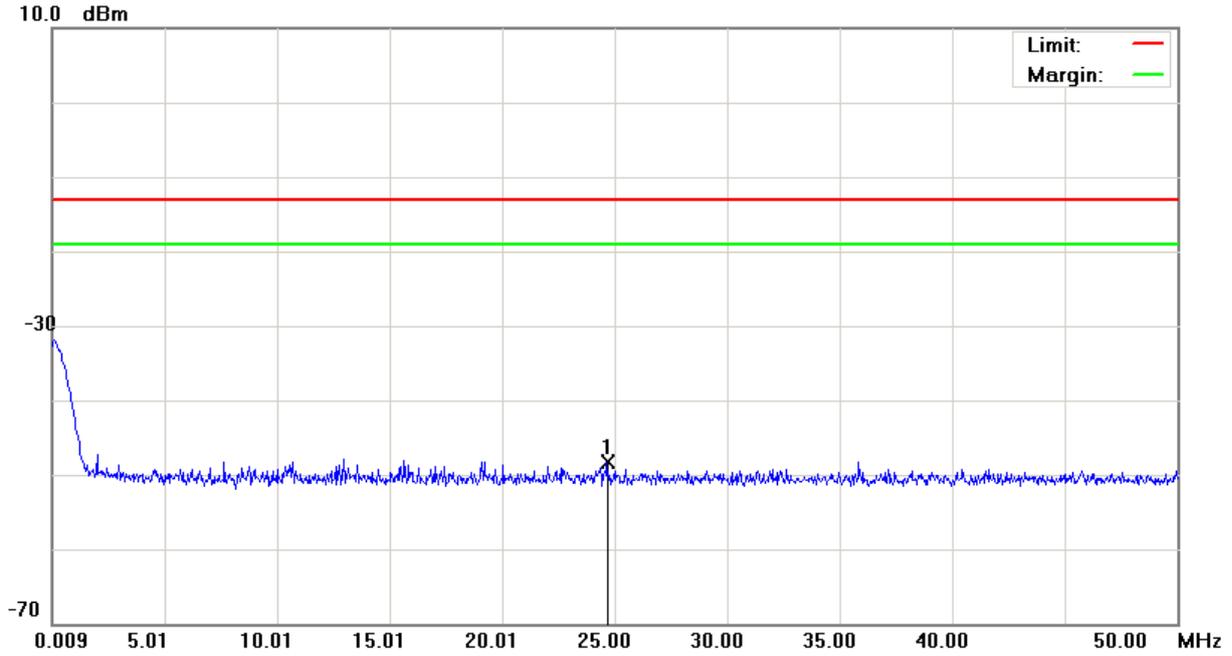


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 1 (GSM power amplifier #2)		
Note: CH251(848.8MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	8894.375	-37.92	5.40	-32.52	-13.00	-19.52	peak		

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

File:PD98120(CH512) Data :#1 Date:2010/10/15 Time: 上午 10:13:35

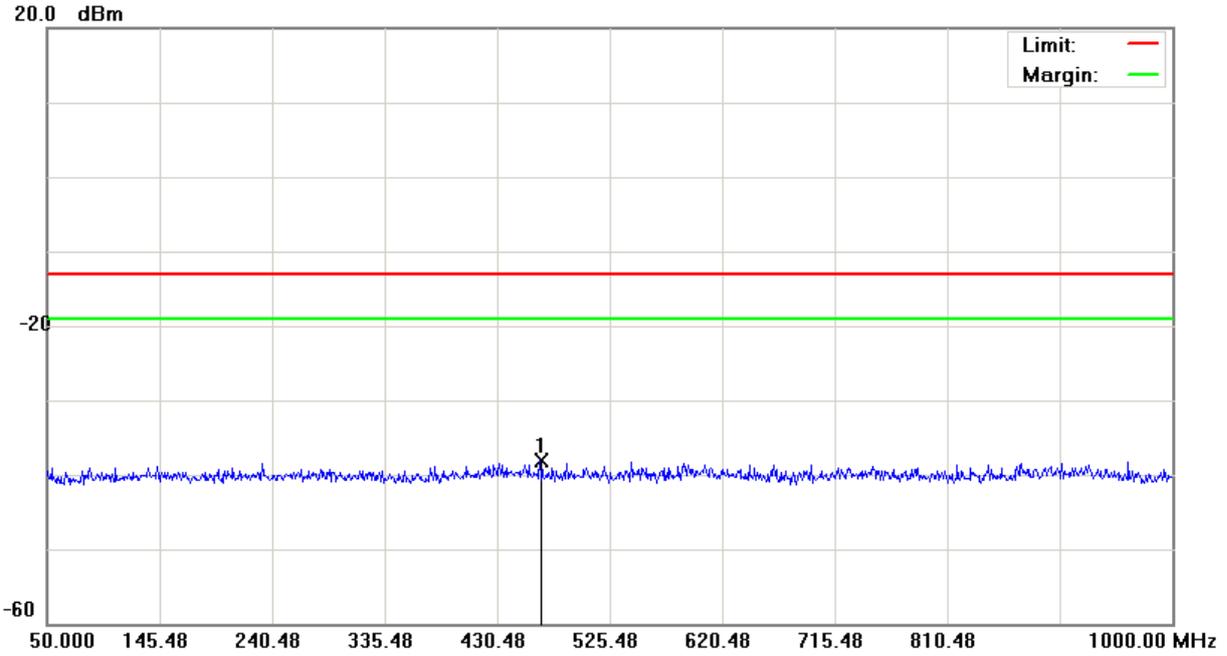


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	24.6795	-61.55	13.28	-48.27	-13.00	-35.27	peak		

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

File: PD98120(CH512) Data: #2 Date: 2010/10/15 Time: 上午 10:14:01

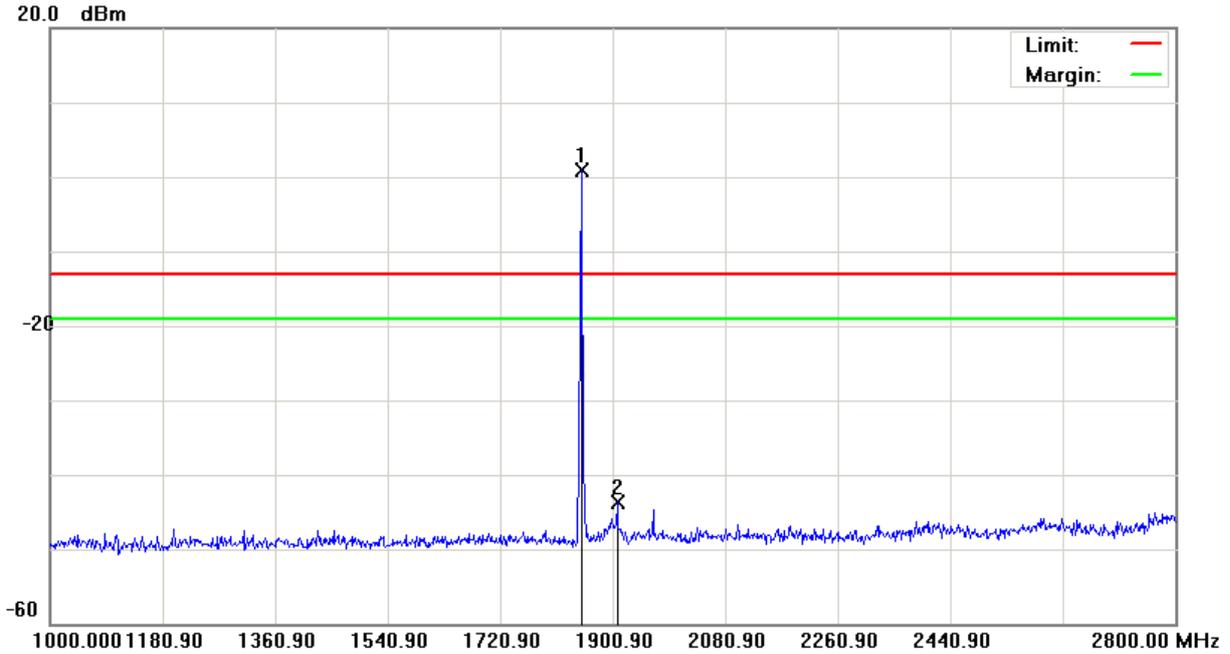


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	466.5750	-51.28	13.19	-38.09	-13.00	-25.09	peak		

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

File: PD98120(CH512) Data: #3 Date: 2010/10/15 Time: 上午 10:24:03

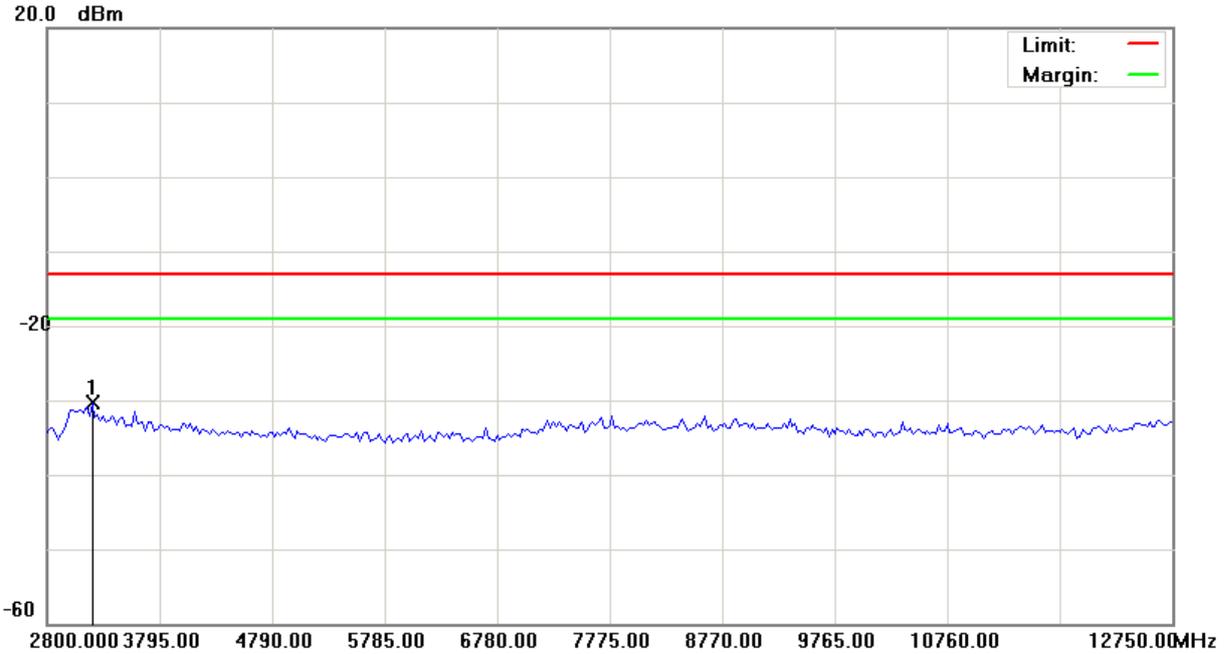


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1850.500	-3.26	4.26	1.00	-13.00	14.00	peak		TX
2		1907.200	-49.65	5.96	-43.69	-13.00	-30.69	peak		

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

File: PD98120(CH512) Data: #4 Date: 2010/10/15 Time: 上午 11:05:41

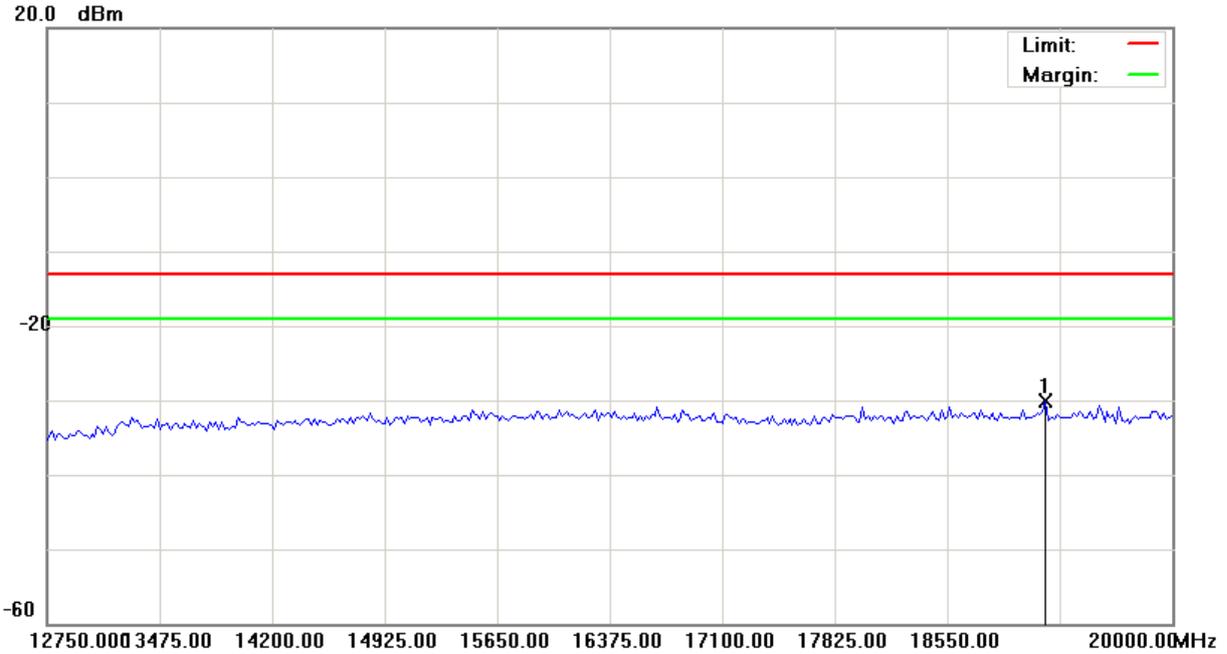


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	3198.000	-35.56	5.22	-30.34	-13.00	-17.34	peak		

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

File: PD98120(CH512) Data: #5 Date: 2010/10/15 Time: 上午 11:06:04

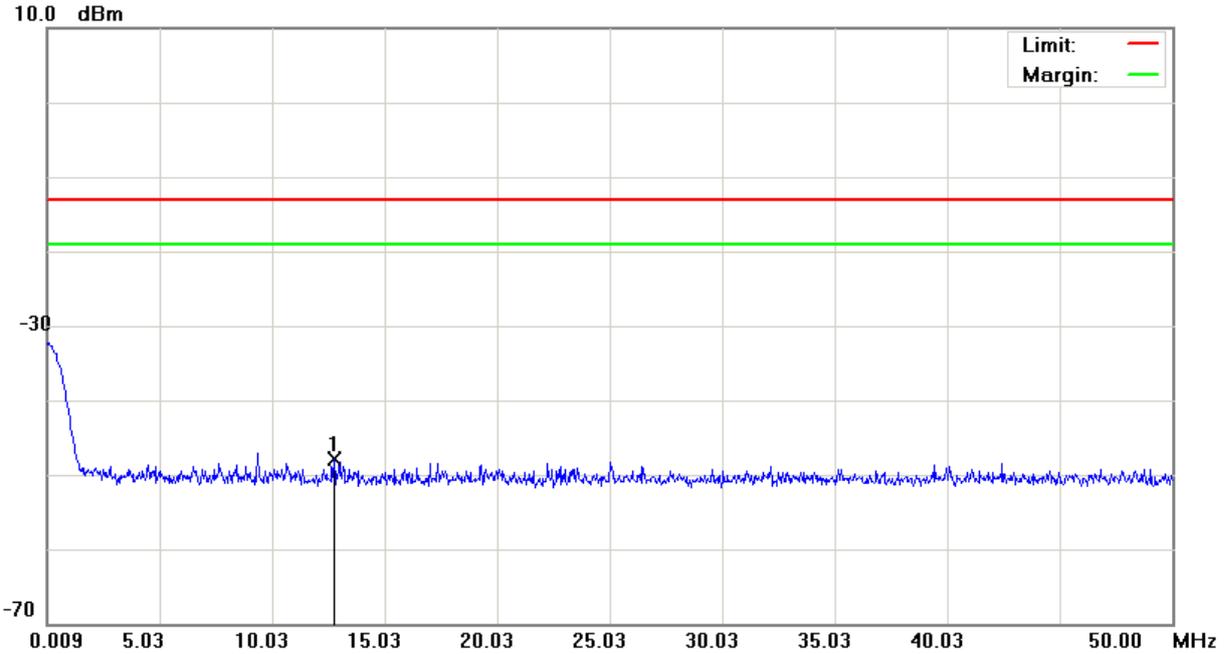


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19184.375	-37.37	7.21	-30.16	-13.00	-17.16	peak		

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

File:PD98120(CH661) Data: #1 Date: 2010/10/15 Time: 上午 10:15:01



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	12.7567	-61.21	13.29	-47.92	-13.00	-34.92	peak		

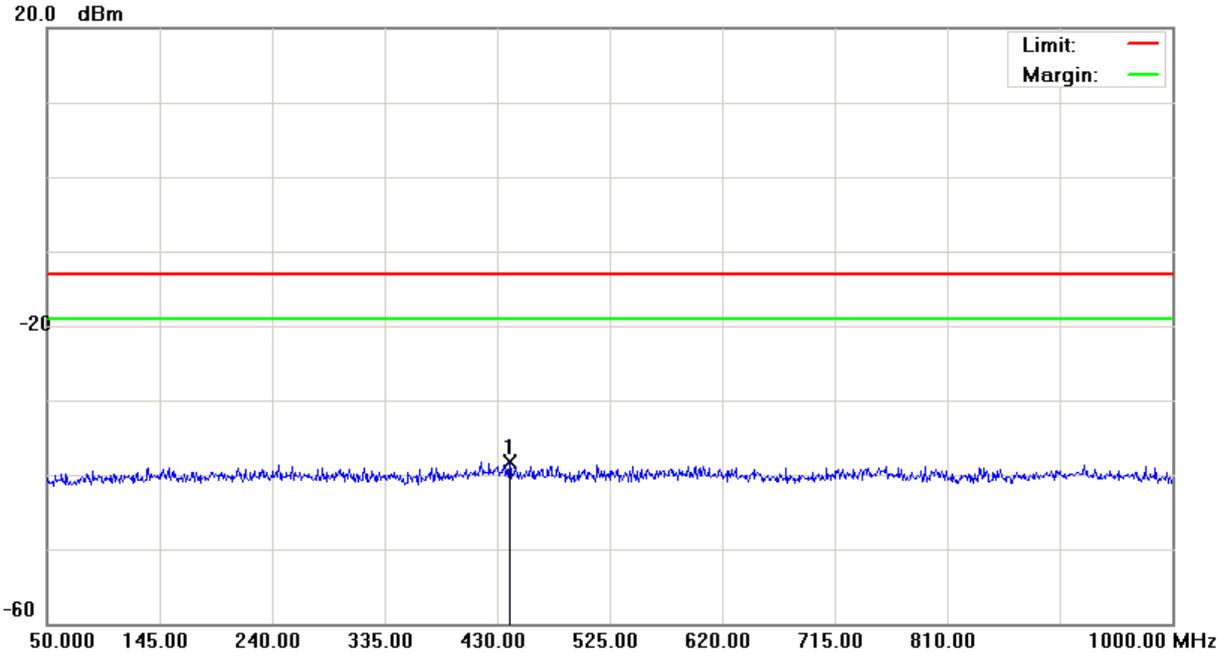
*:Maximum data x:Over limit !:over margin

File: PD98120(CH661)

Data: #2

Date: 2010/10/15

Time: 上午 10:15:25



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Smartphone

Distance:

RBW: 1000 MHz VBW: 1000 MHz

M/N: PD98120

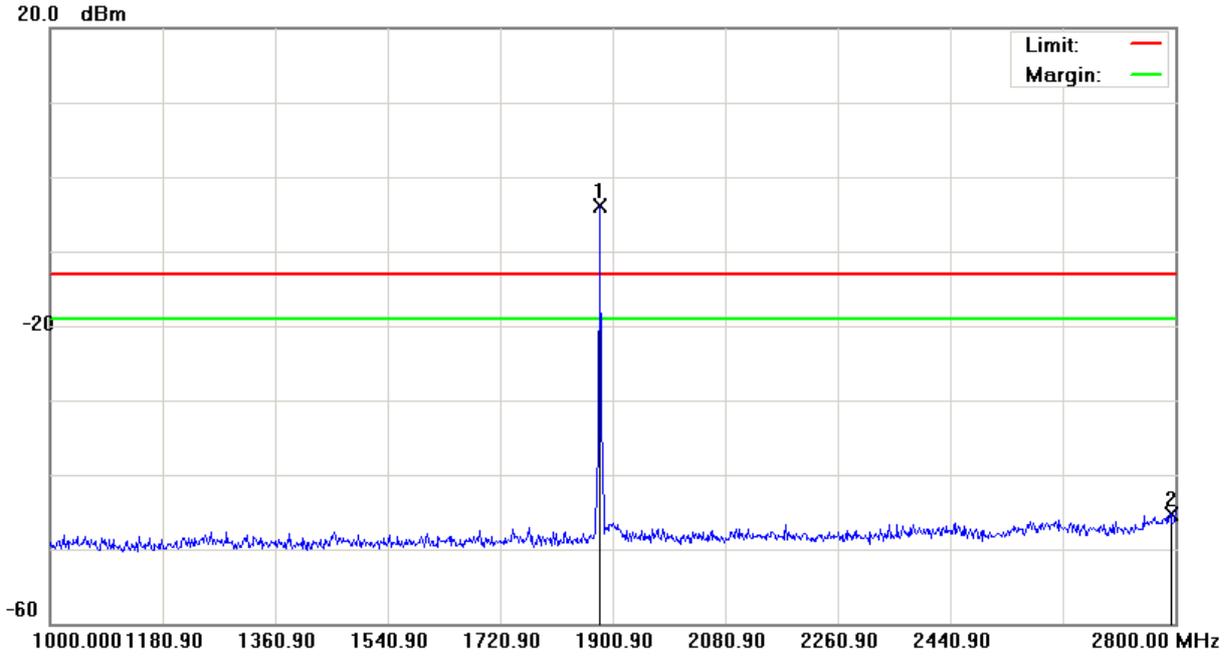
Mode: 2 (GSM power amplifier #1)

Note: CH661(1880MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	440.4500	-51.41	13.20	-38.21	-13.00	-25.21	peak		

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

File:PD98120(CH661) Data :#3 Date:2010/10/15 Time: 上午 10:26:15



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1880.200	-8.61	4.65	-3.96	-13.00	9.04	peak		TX
2		2791.900	-51.26	5.90	-45.36	-13.00	-32.36	peak		

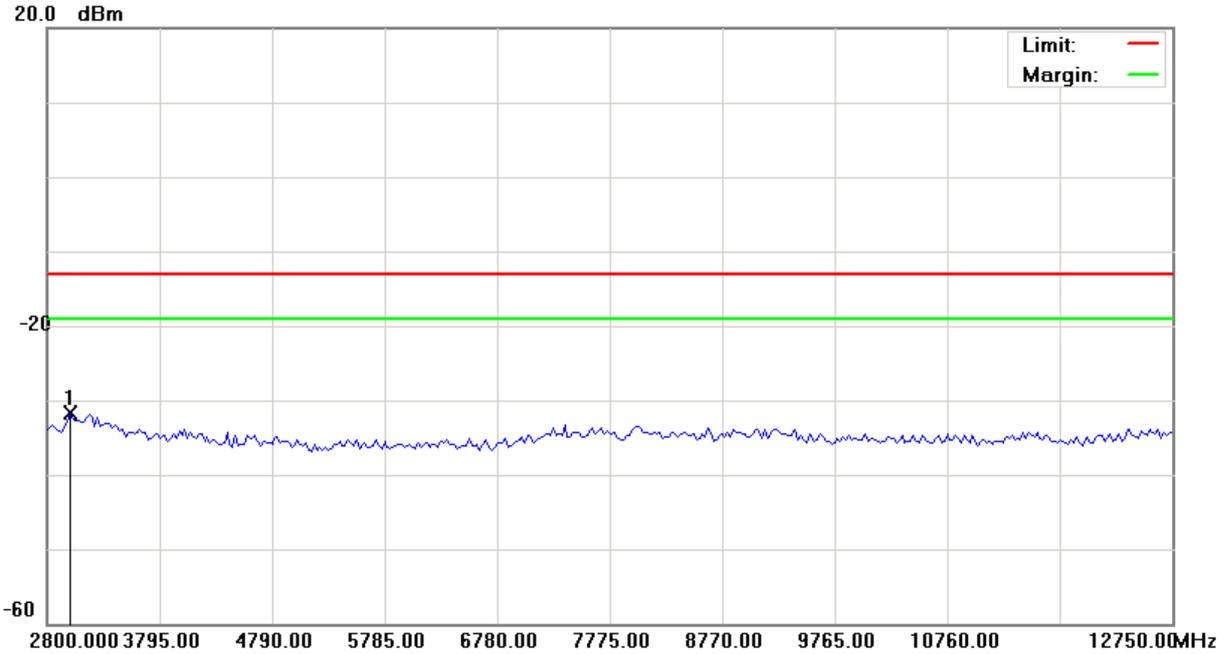
*:Maximum data x:Over limit !:over margin

File:PD98120(CH661)

Data :#4

Date:2010/10/15

Time: 上午 11:07:34

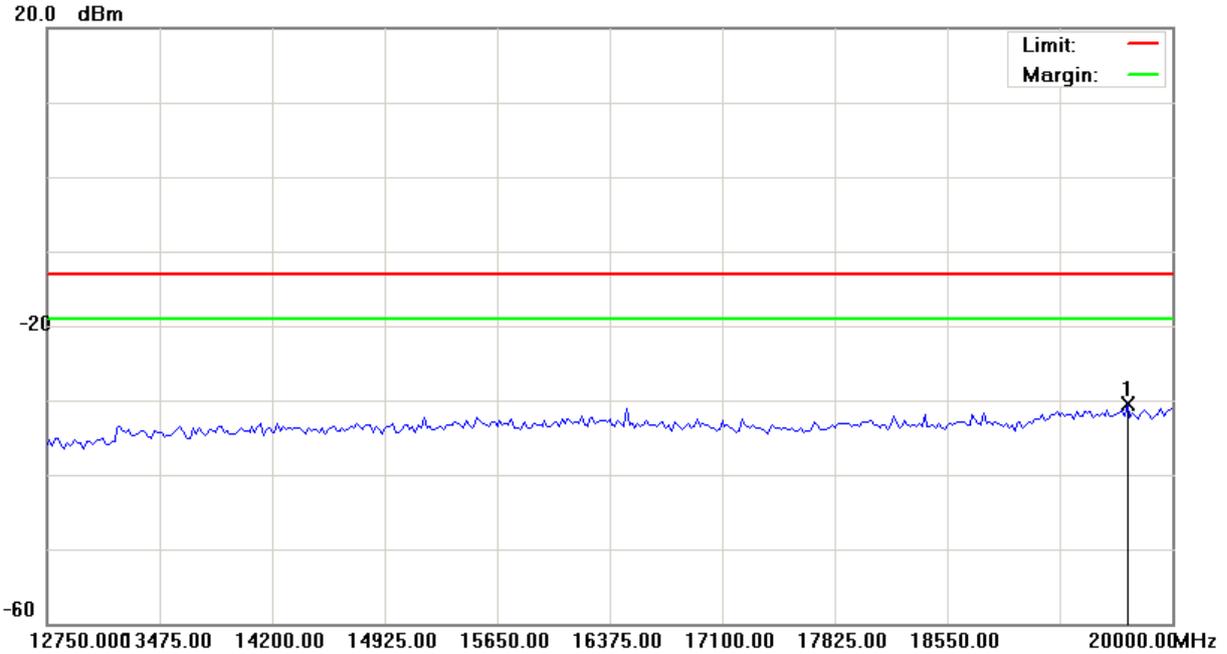


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2999.000	-37.10	5.48	-31.62	-13.00	-18.62	peak		

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

File: PD98120(CH661) Data: #5 Date: 2010/10/15 Time: 上午 11:07:57

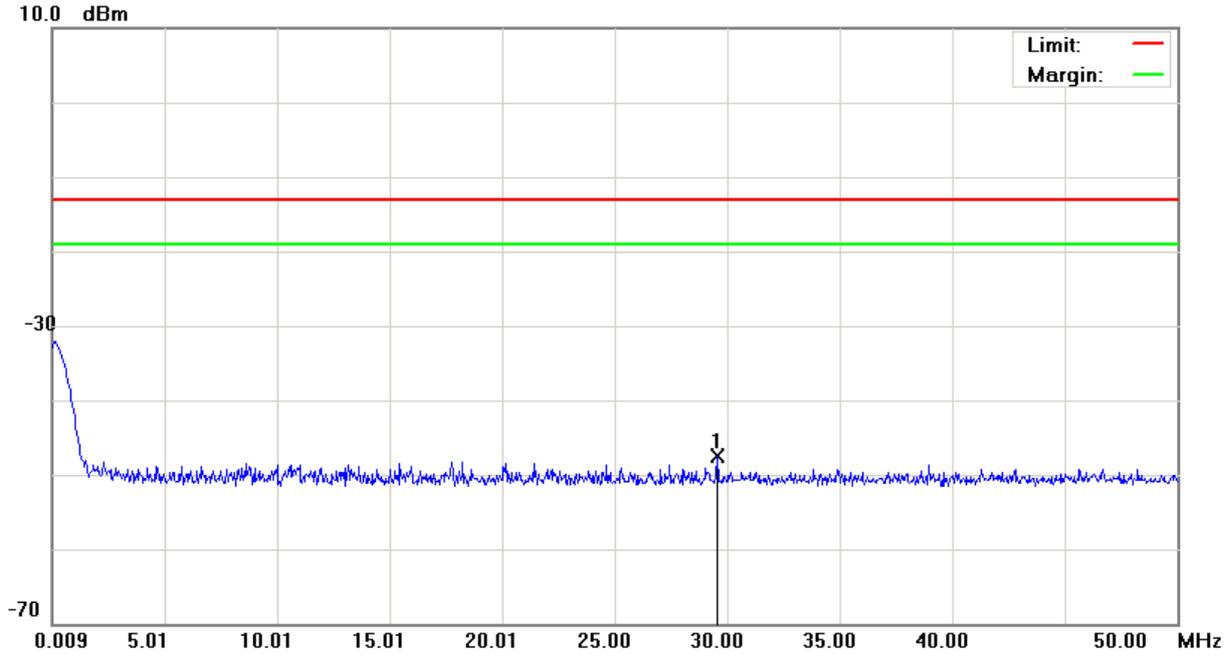


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19710.000	-37.89	7.36	-30.53	-13.00	-17.53	peak		

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

File:PD98120(CH810) Data:#1 Date:2010/10/15 Time:上午 10:16:48



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	29.5536	-60.76	13.28	-47.48	-13.00	-34.48			peak

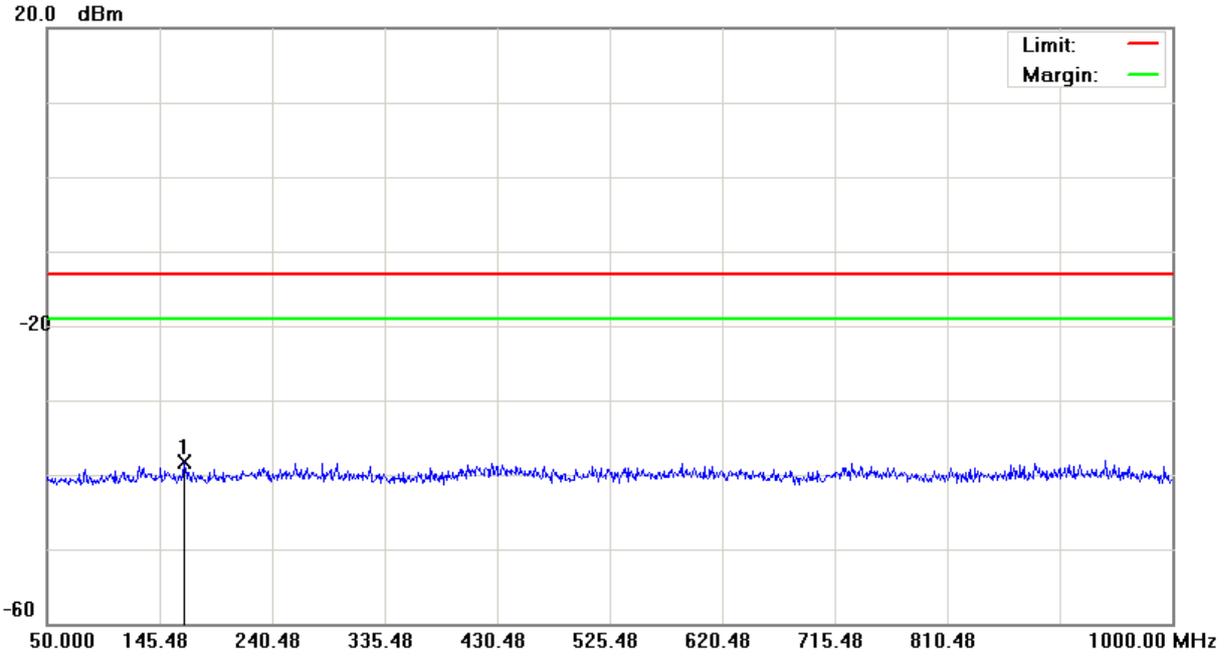
*:Maximum data x:Over limit !:over margin

File: PD98120(CH810)

Data: #2

Date: 2010/10/15

Time: 上午 10:17:12

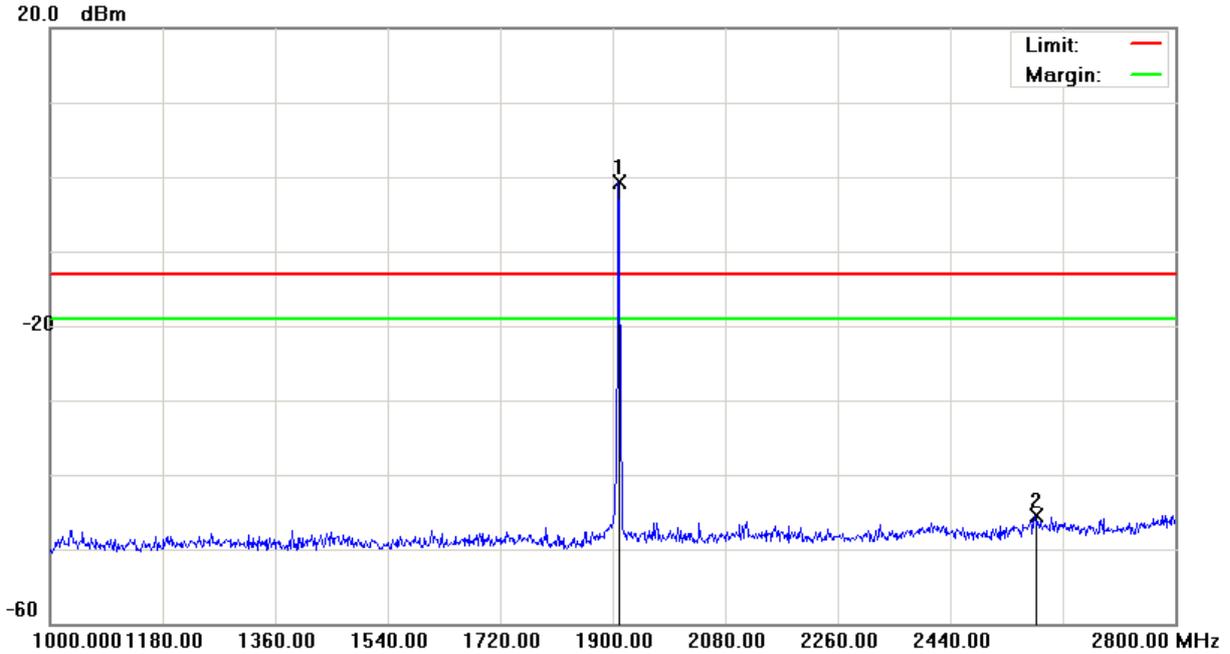


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	165.9000	-51.71	13.34	-38.37	-13.00	-25.37	peak		

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

File:PD98120(CH810) Data :#3 Date:2010/10/15 Time: 上午 10:28:59

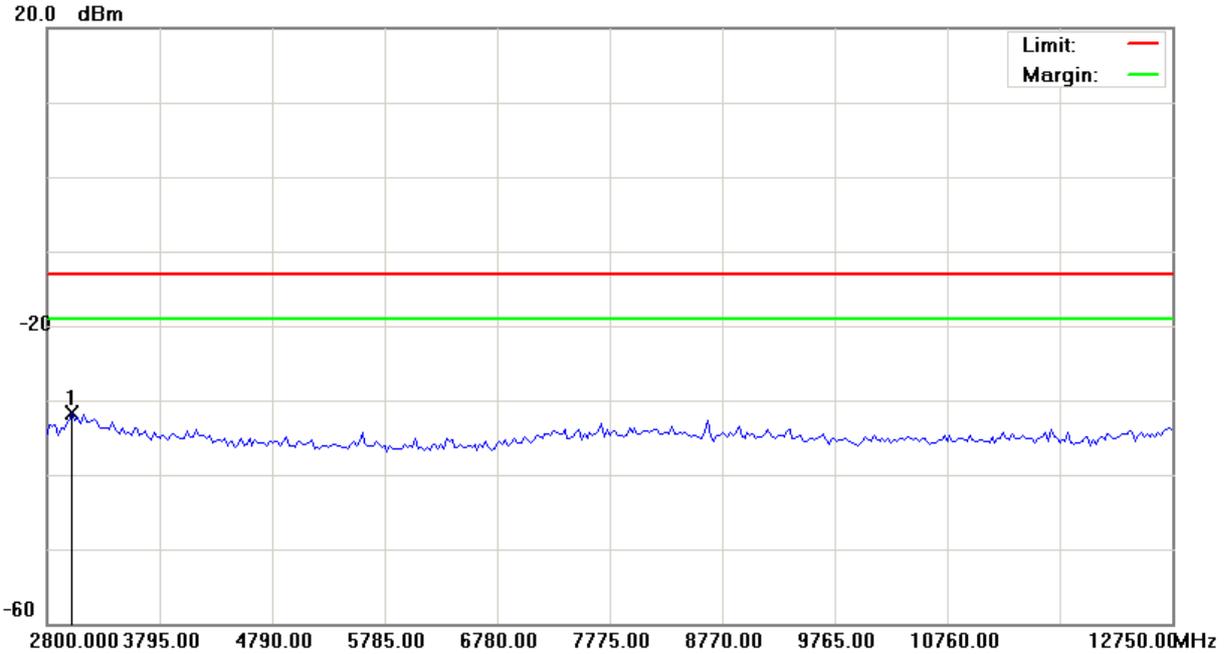


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1909.900	-6.41	5.71	-0.70	-13.00	12.30	peak		TX
2		2575.900	-50.86	5.34	-45.52	-13.00	-32.52	peak		

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

File: PD98120(CH810) Data: #4 Date: 2010/10/15 Time: 上午 11:09:41

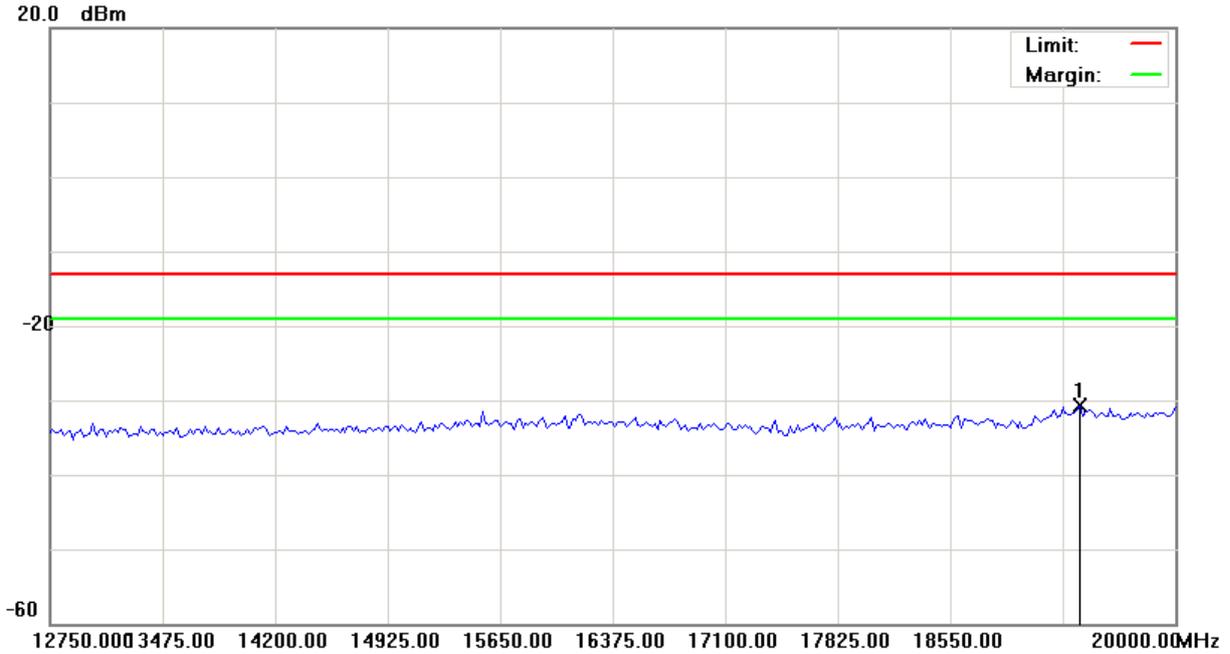


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	3023.875	-37.10	5.48	-31.62	-13.00	-18.62	peak		

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

File: PD98120(CH810) Data: #5 Date: 2010/10/15 Time: 上午 11:10:04

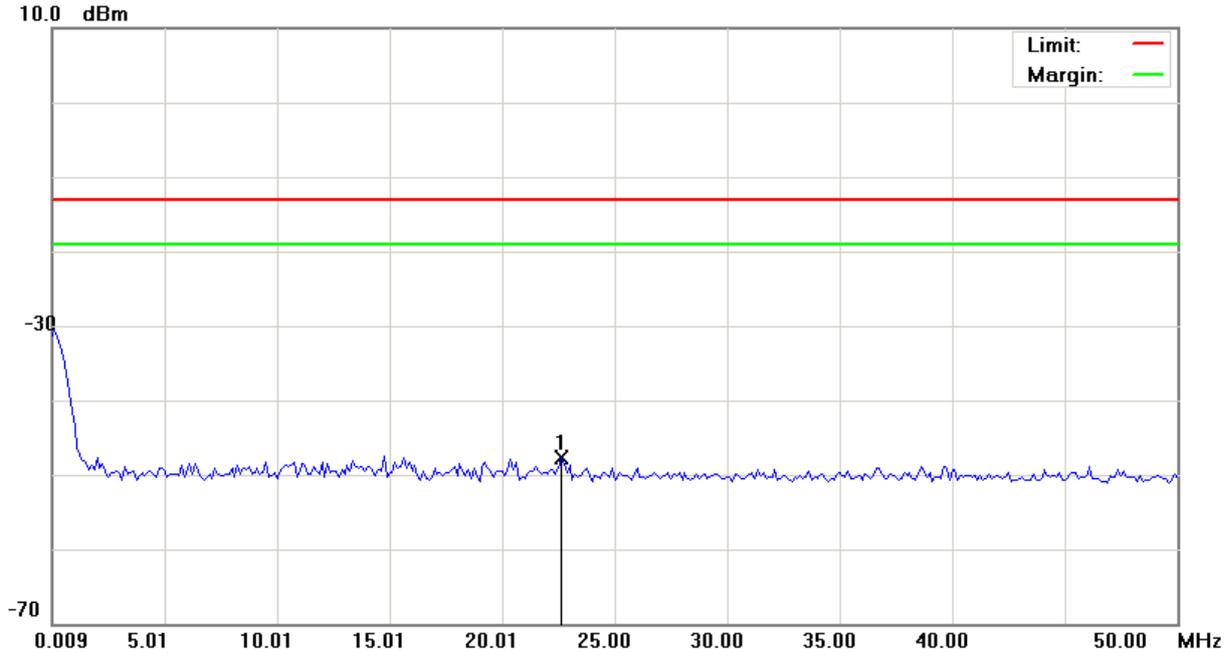


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #1)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19383.750	-37.94	7.26	-30.68	-13.00	-17.68	peak		

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

File: PD98120(CH512) Data: #1 Date: 2010/10/18 Time: 下午 02:51:38



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	22.6298	-61.01	13.29	-47.72	-13.00	-34.72			peak

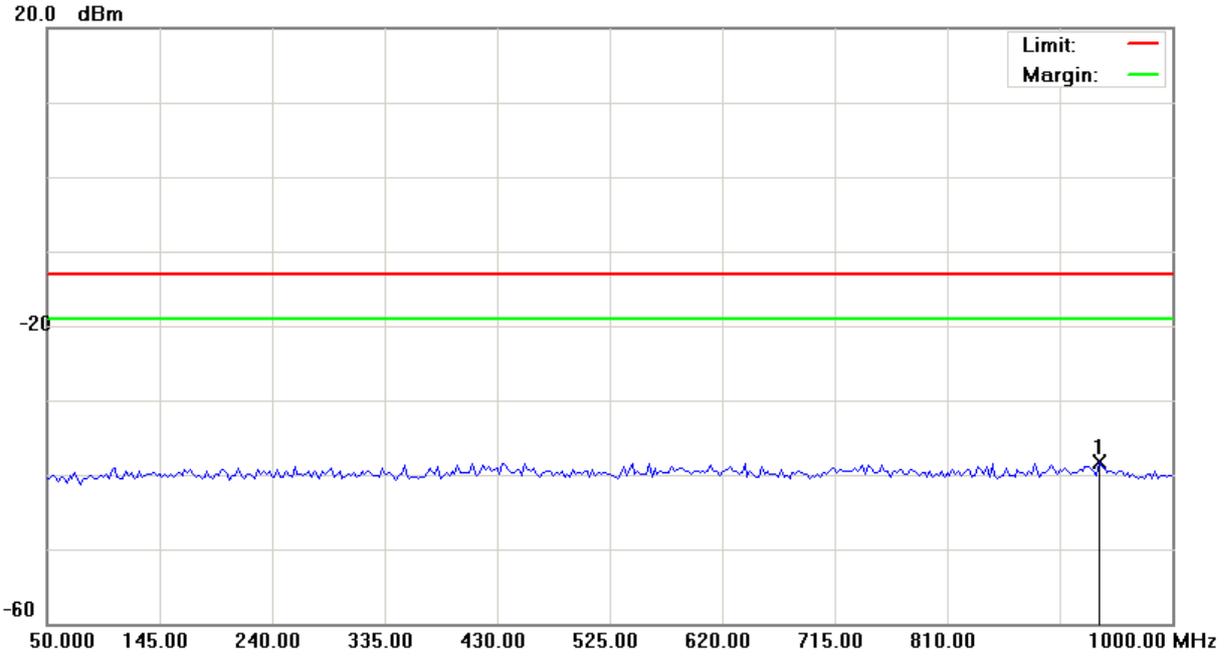
*:Maximum data x:Over limit !:over margin

File: PD98120(CH512)

Data: #2

Date: 2010/10/18

Time: 下午 02:51:57



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Smartphone

Distance:

RBW: 1000 MHz VBW: 1000 MHz

M/N: PD98120

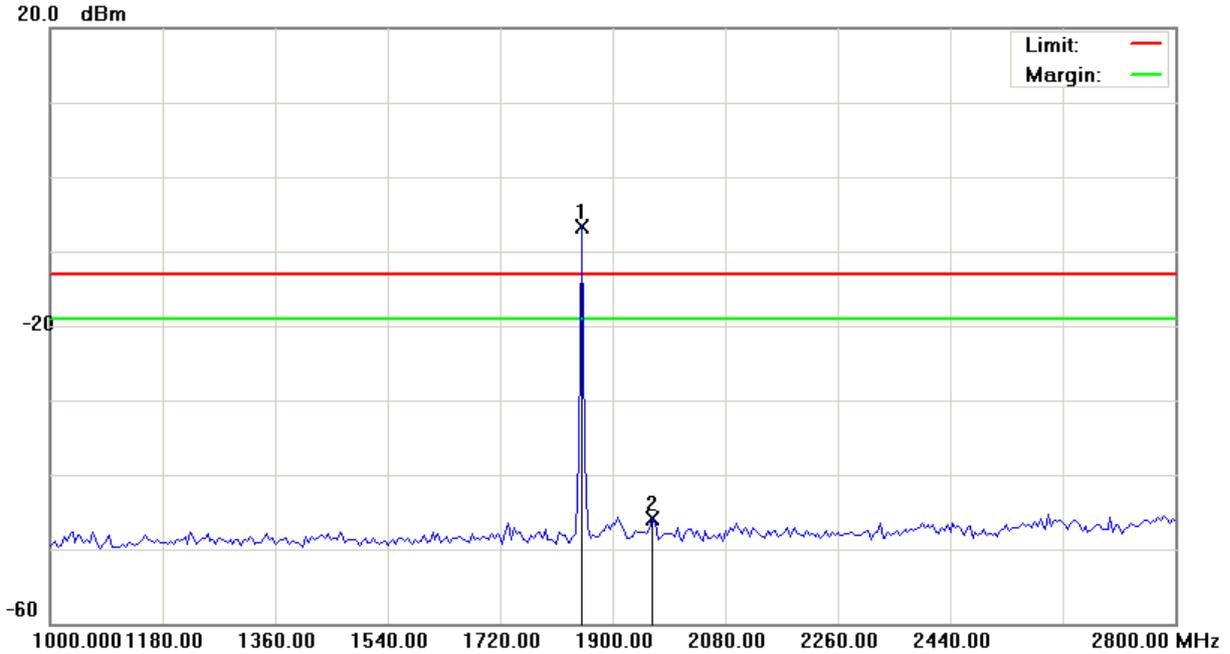
Mode: 2 (GSM power amplifier #2)

Note: CH512(1850.2MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	938.2500	-51.54	13.18	-38.36	-13.00	-25.36	peak		

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

File:PD98120(CH512) Data :#3 Date:2010/10/18 Time: 下午 03:07:07



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1850.500	-10.86	4.26	-6.60	-13.00	6.40	peak		TX
2		1963.000	-50.69	4.74	-45.95	-13.00	-32.95	peak		

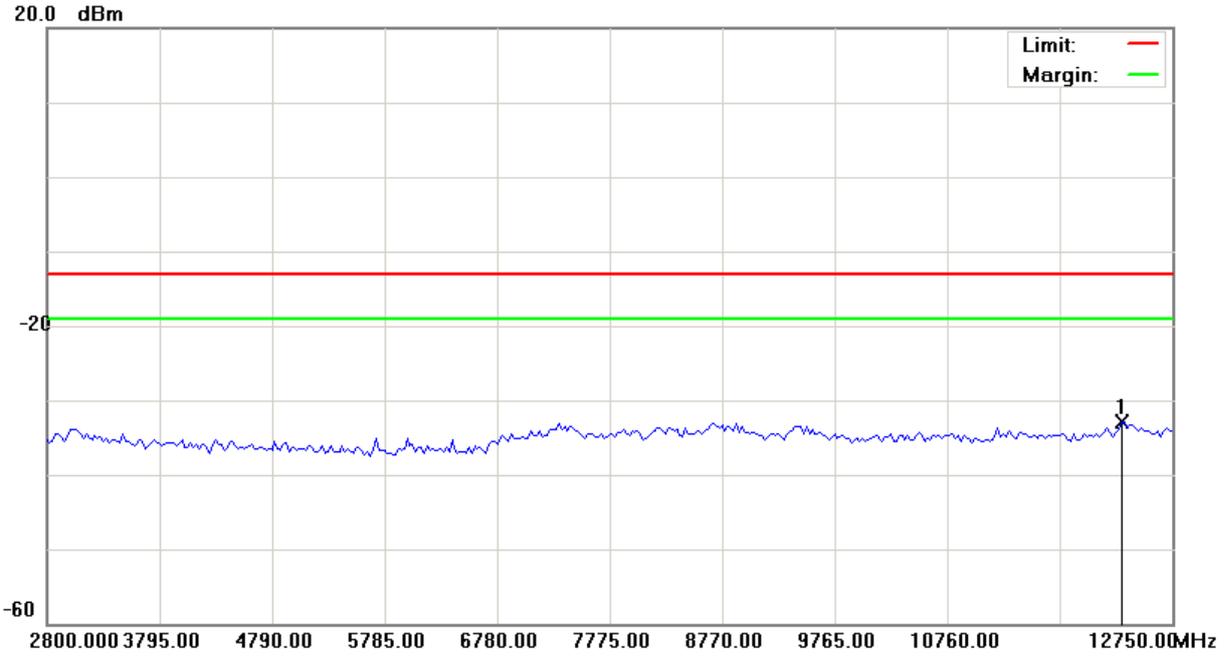
*:Maximum data x:Over limit !:over margin

File: PD98120(CH512)

Data: #4

Date: 2010/10/18

Time: 下午 04:01:40

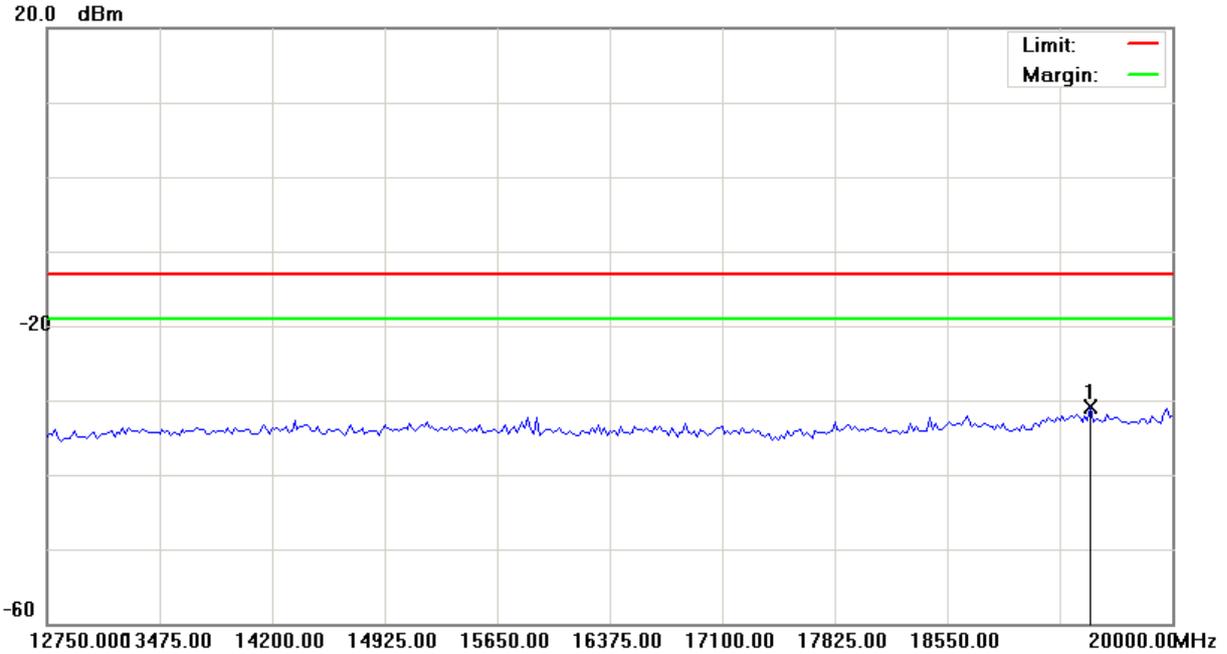


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	12302.250	-38.07	5.19	-32.88	-13.00	-19.88	peak		

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

File: PD98120(CH512) Data: #5 Date: 2010/10/18 Time: 下午 04:02:02

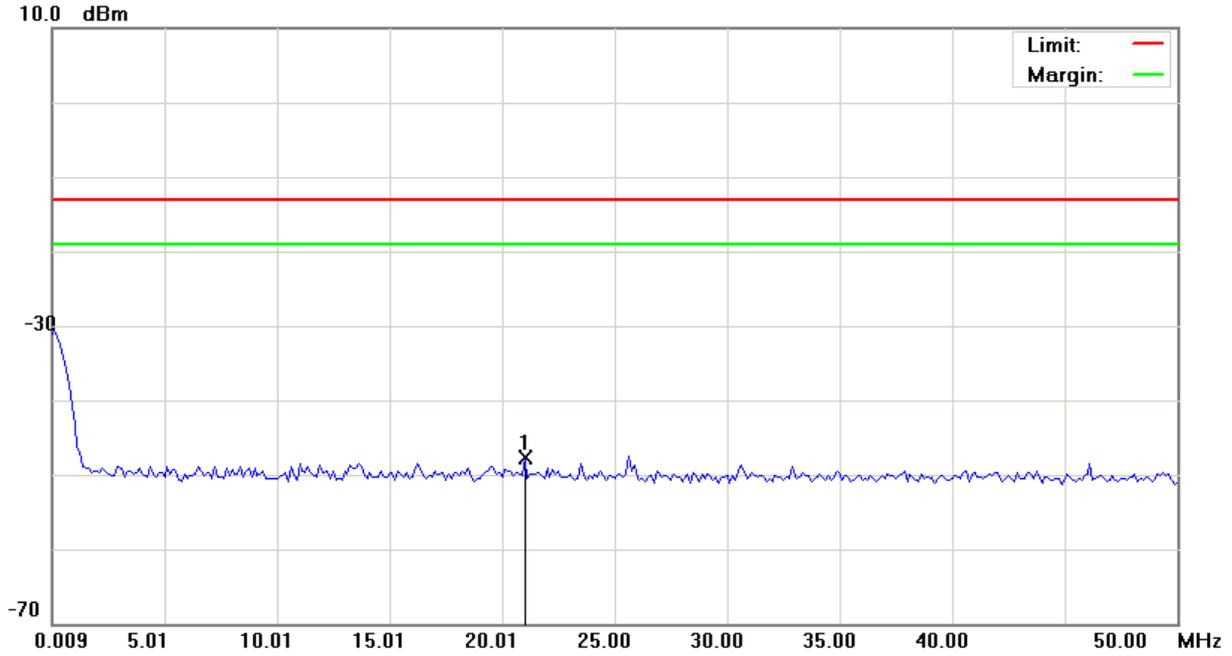


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH512(1850.2MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19474.375	-38.26	7.29	-30.97	-13.00	-17.97	peak		

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

File: PD98120(CH661) Data: #1 Date: 2010/10/18 Time: 下午 02:53:19



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH661(1880MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	21.0051	-61.04	13.30	-47.74	-13.00	-34.74	peak		

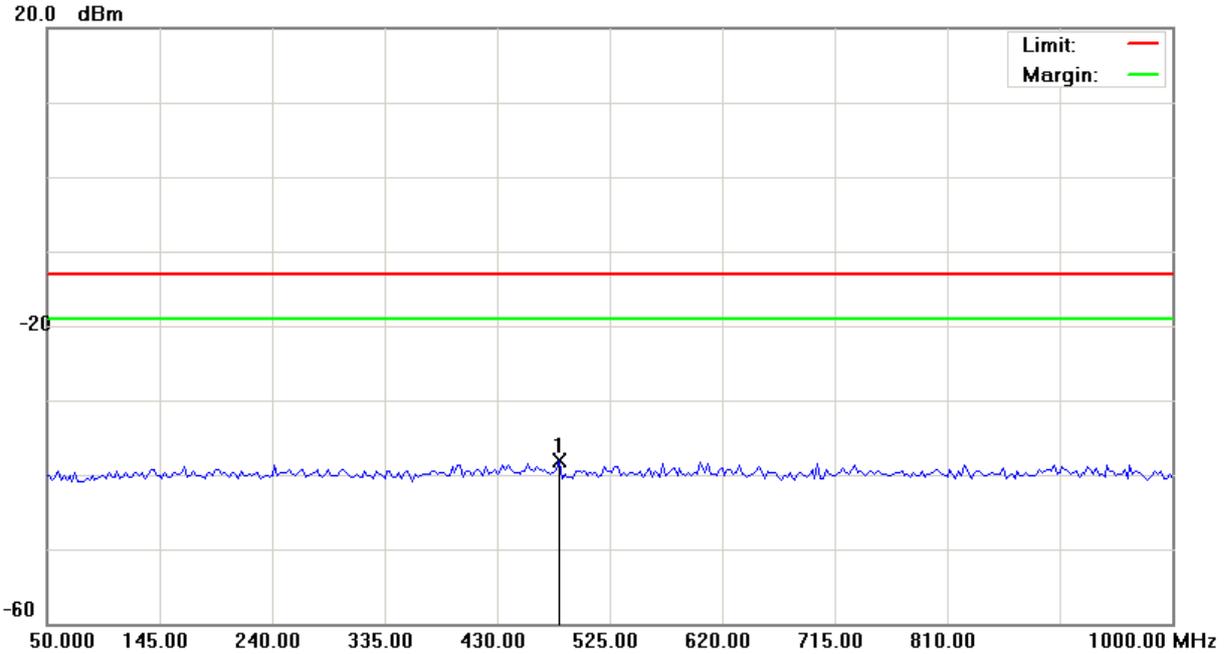
*:Maximum data x:Over limit !:over margin

File:PD98120(CH661)

Data :#2

Date: 2010/10/18

Time: 下午 02:53:38

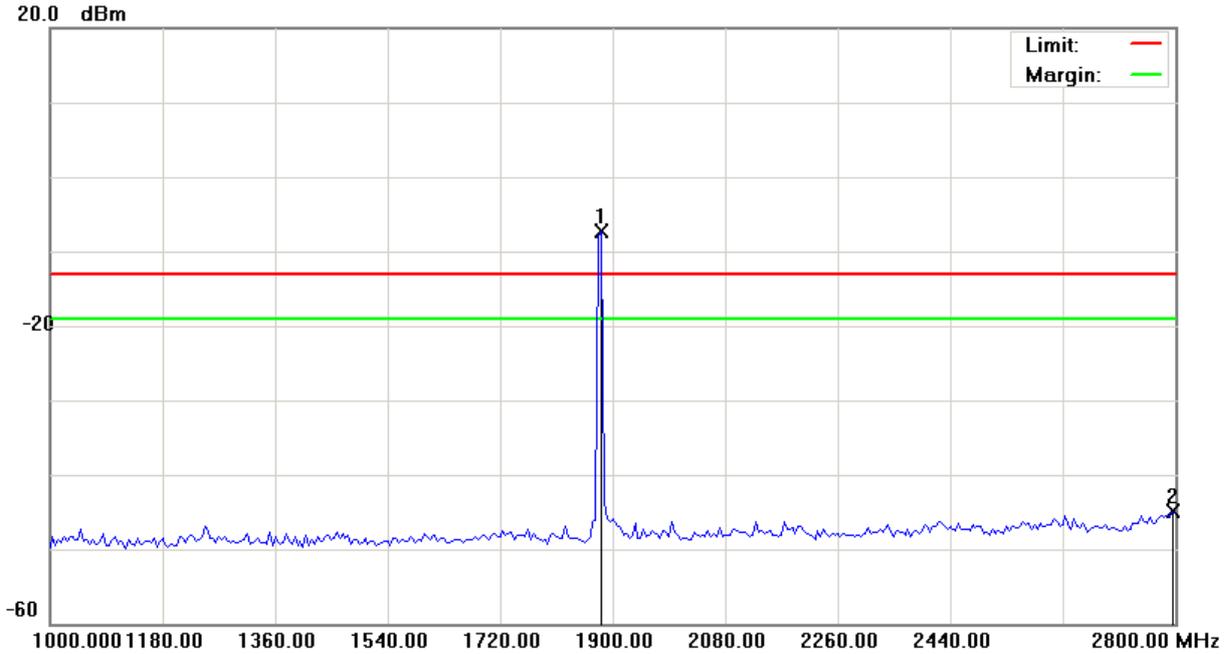


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	482.2500	-51.34	13.17	-38.17	-13.00	-25.17	peak		

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

File:PD98120(CH661) Data :#3 Date:2010/10/18 Time: 下午 03:09:04

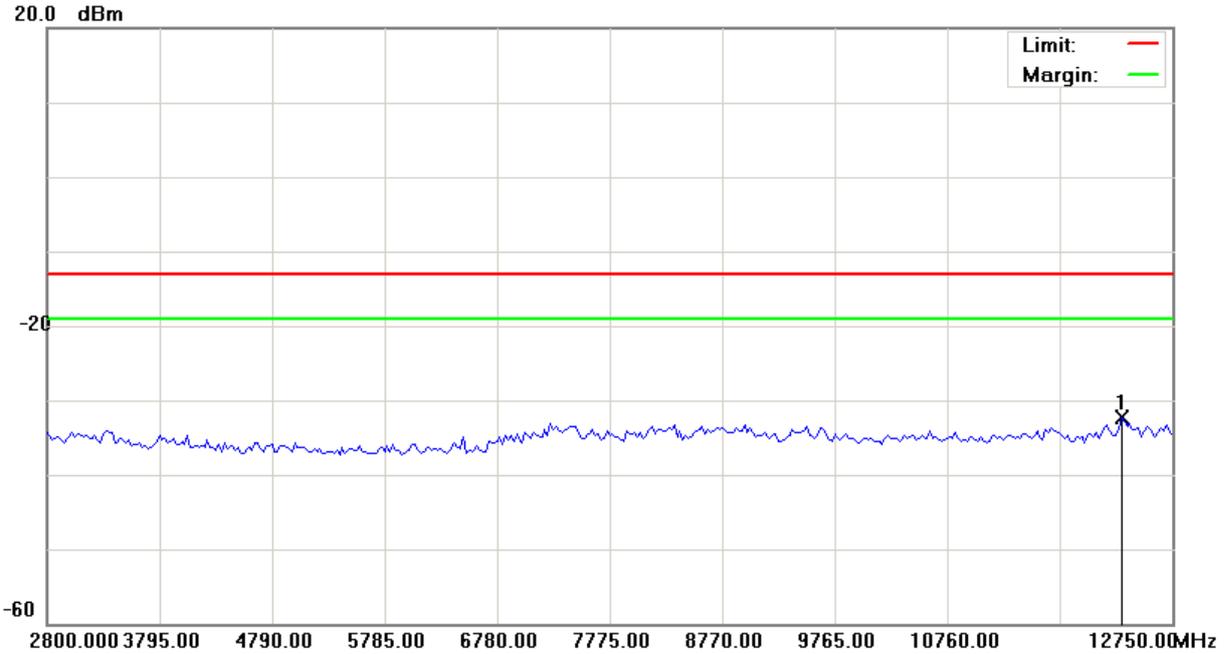


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1882.000	-12.07	4.83	-7.24	-13.00	5.76	peak		TX
2		2795.500	-50.73	5.90	-44.83	-13.00	-31.83	peak		

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

File: PD98120(CH661) Data: #4 Date: 2010/10/18 Time: 下午 04:03:19



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	12302.250	-37.44	5.19	-32.25	-13.00	-19.25	peak		

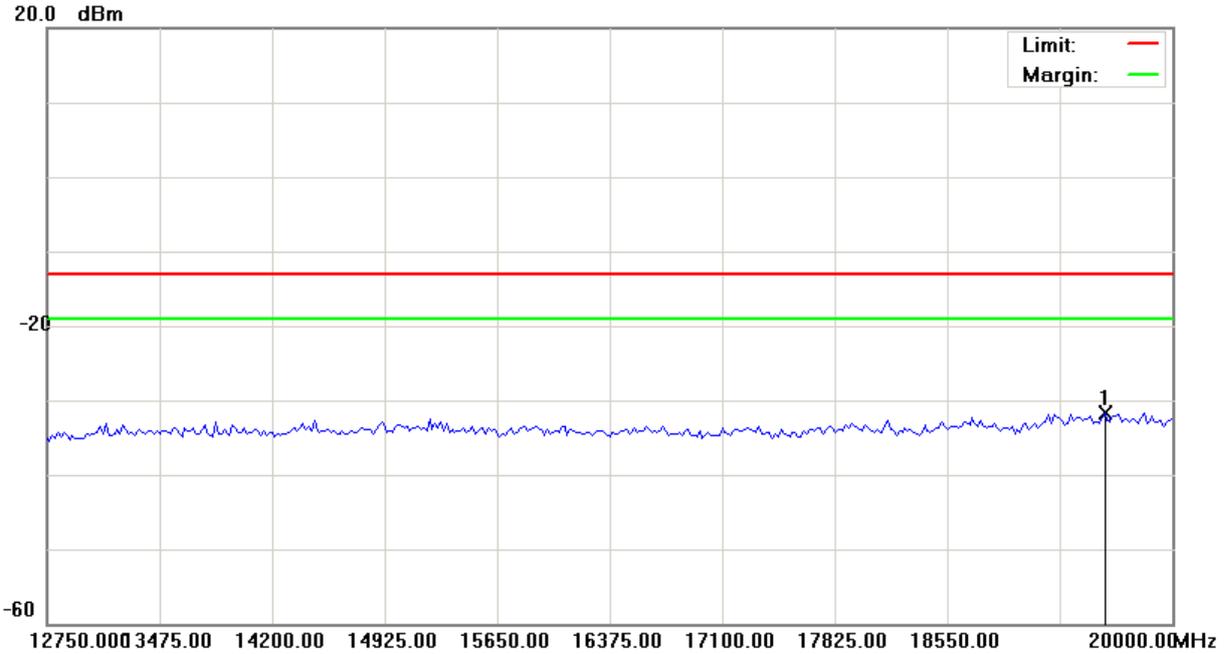
*:Maximum data x:Over limit !:over margin

File: PD98120(CH661)

Data: #5

Date: 2010/10/18

Time: 下午 04:03:41



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH661(1880MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19565.000	-39.05	7.32	-31.73	-13.00	-18.73	peak		

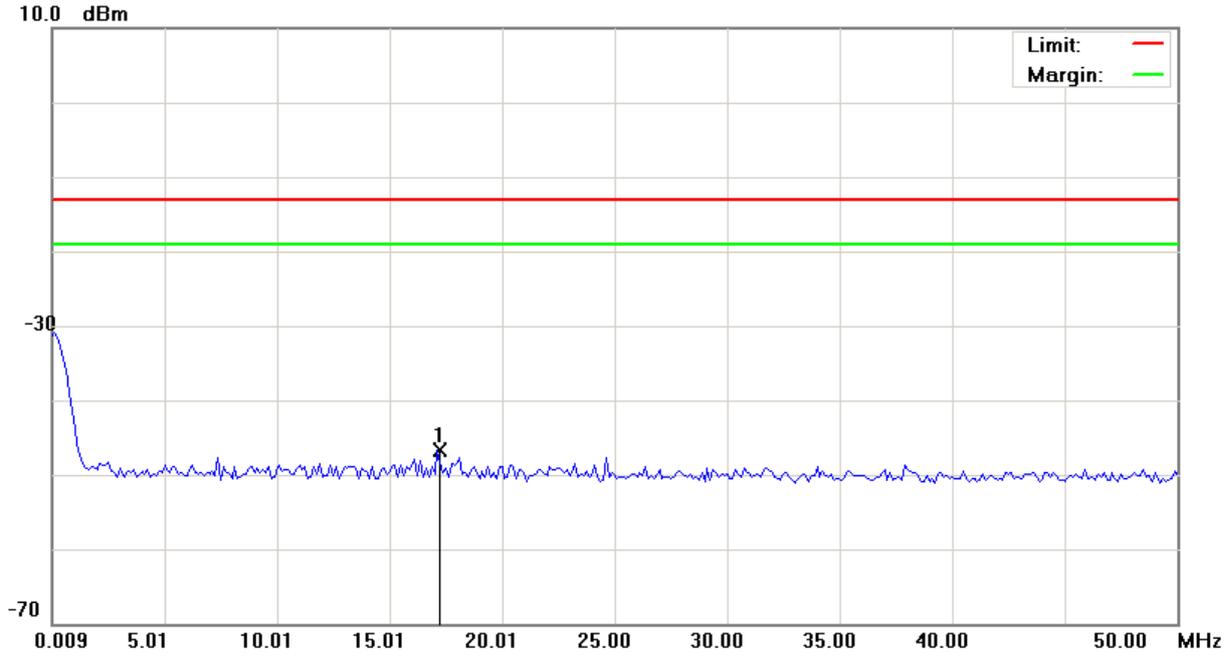
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File: PD98120(CH810)

Data: #1

Date: 2010/10/18

Time: 下午 02:54:43

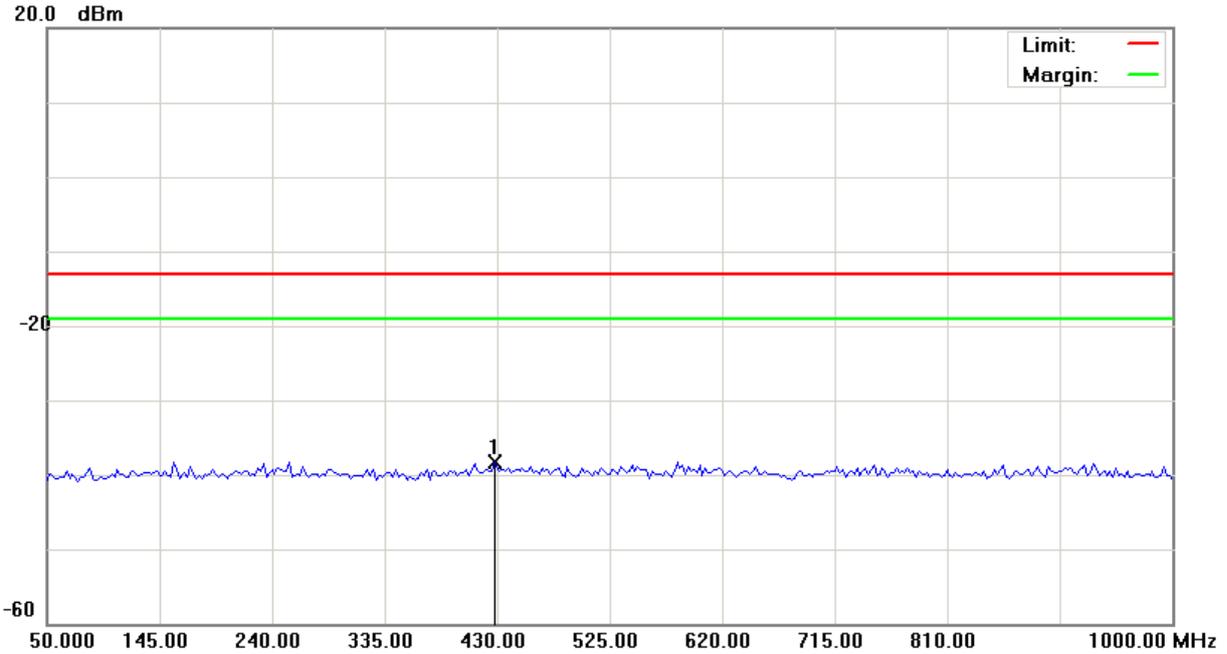


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	17.1310	-60.00	13.29	-46.71	-13.00	-33.71	peak		

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

File: PD98120(CH810) Data: #2 Date: 2010/10/18 Time: 下午 02:55:02



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	427.6250	-51.49	13.25	-38.24	-13.00	-25.24	peak		

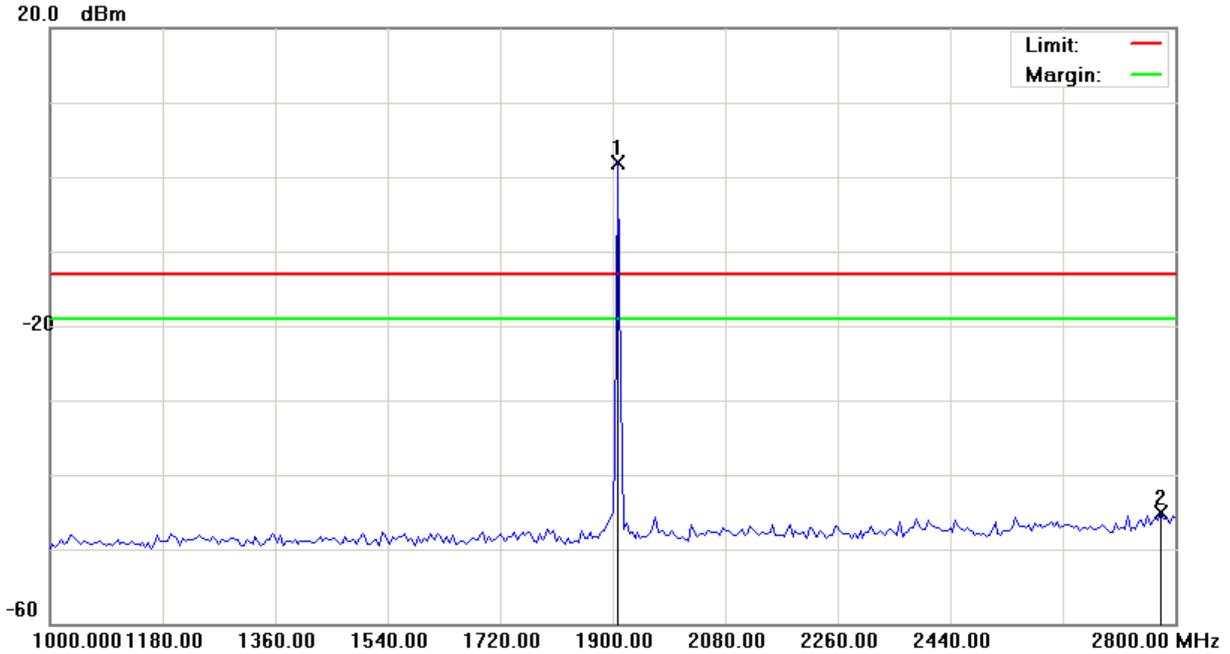
*:Maximum data x:Over limit !:over margin

File:PD98120(CH810)

Data :#3

Date:2010/10/18

Time: 下午 03:10:23

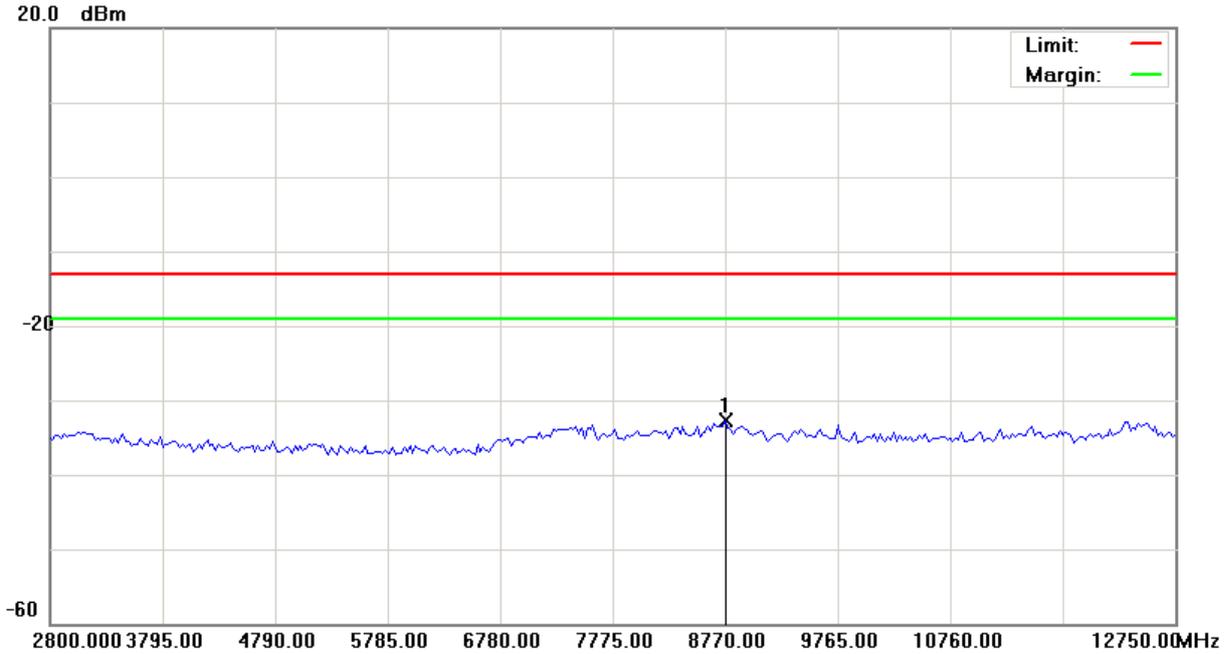


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1909.000	-3.86	5.80	1.94	-13.00	14.94	peak		TX
2		2777.500	-50.86	5.85	-45.01	-13.00	-32.01	peak		

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

File: PD98120(CH810) Data: #4 Date: 2010/10/18 Time: 下午 04:05:00

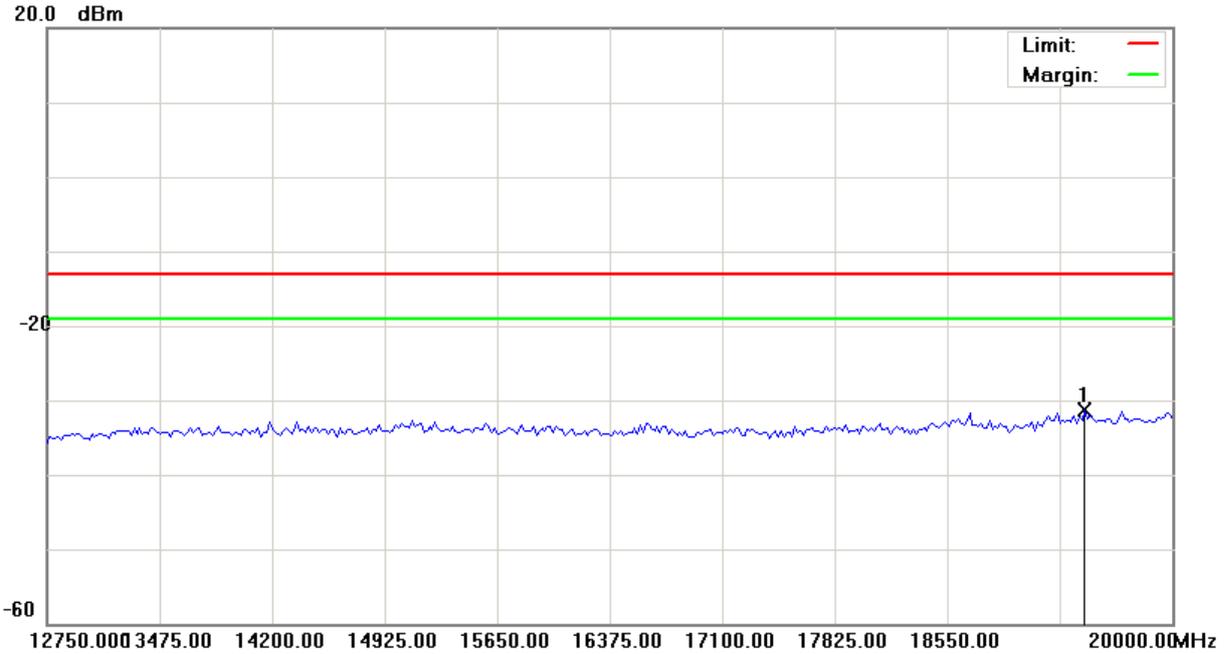


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	8770.000	-38.30	5.68	-32.62	-13.00	-19.62			peak

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

File: PD98120(CH810) Data: #5 Date: 2010/10/18 Time: 下午 04:05:21

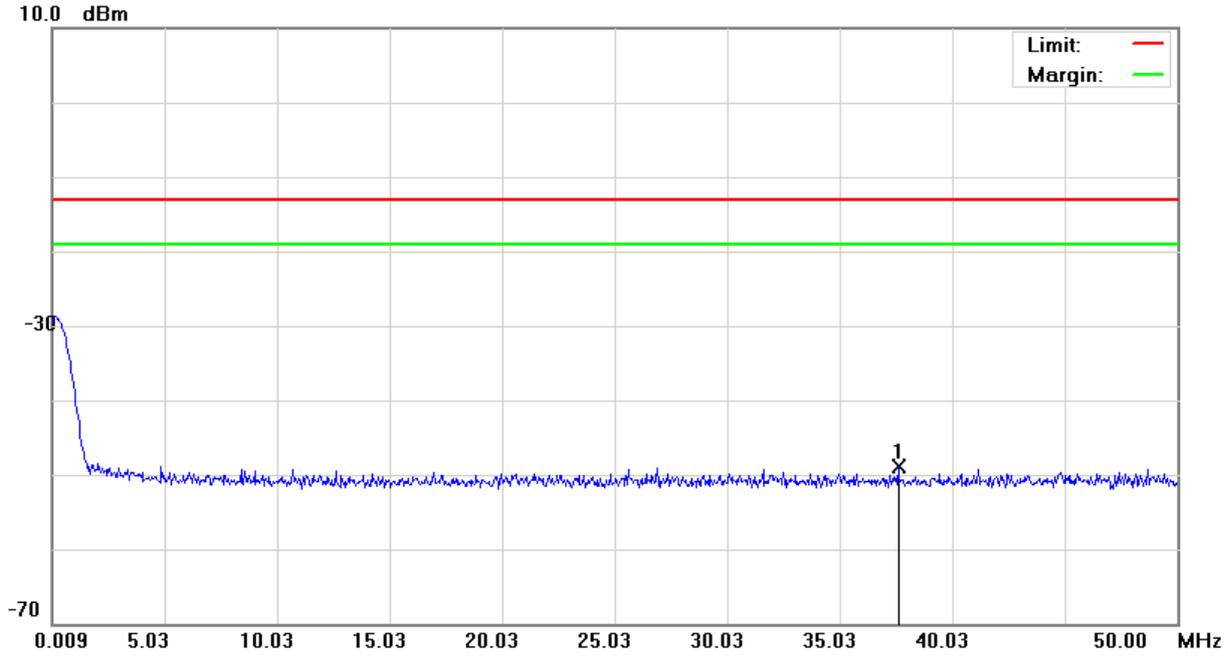


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 2 (GSM power amplifier #2)		
Note: CH810(1909.8MHz)		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	19438.125	-38.57	7.28	-31.29	-13.00	-18.29	peak		

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

File:PD98120(CH9262) Data: #1 Date: 2010/10/13 Time: 上午 11:34:47



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9262		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	37.6022	-62.15	13.30	-48.85	-13.00	-35.85	peak		

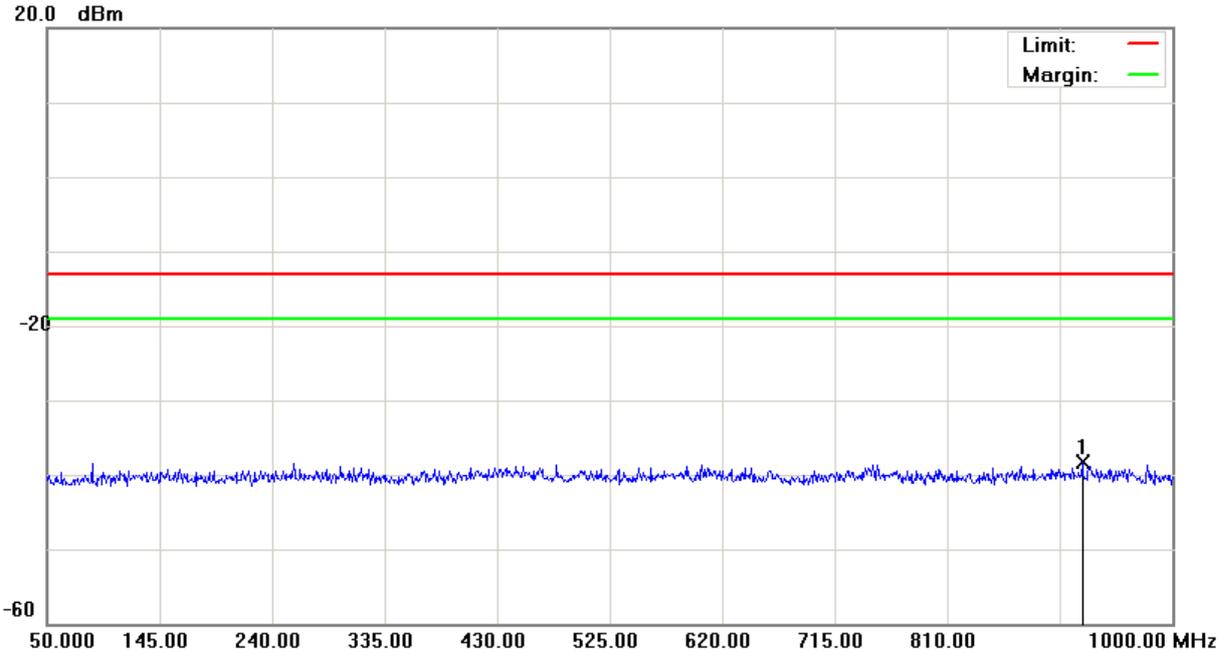
*:Maximum data x:Over limit !:over margin

File: PD98120(CH9262)

Data: #2

Date: 2010/10/13

Time: 上午 11:35:11



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9262		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	924.4750	-51.45	13.20	-38.25	-13.00	-25.25	peak		

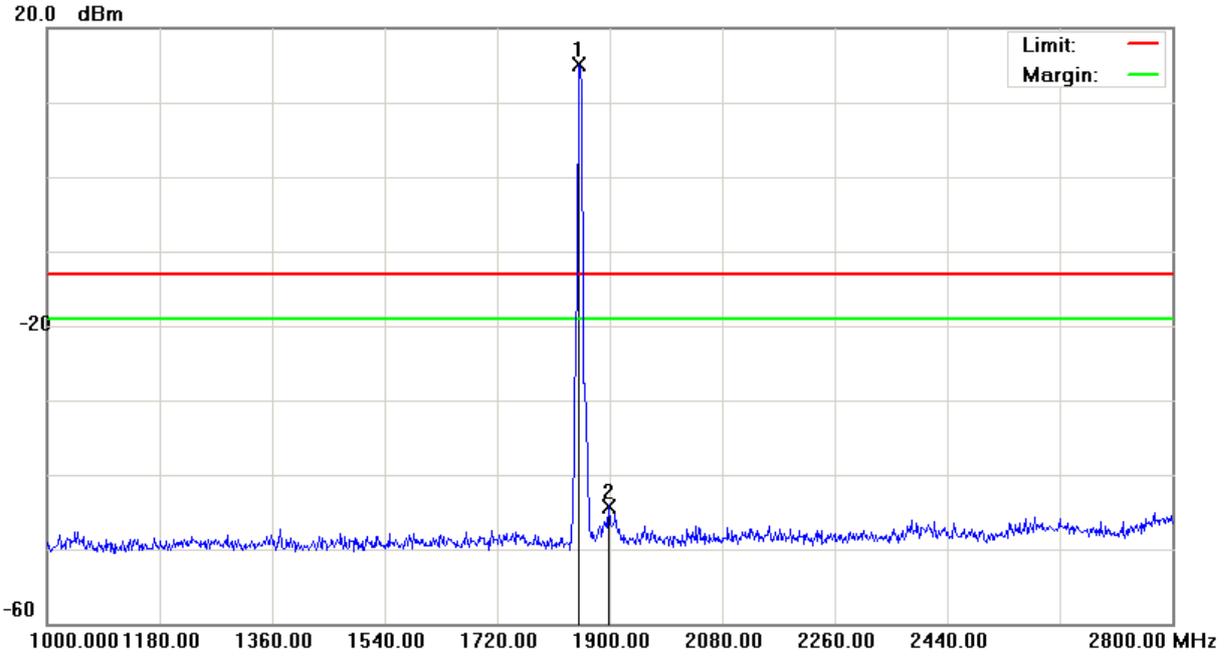
*:Maximum data x:Over limit !:over margin

File: PD98120(CH9262)

Data: #3

Date: 2010/10/13

Time: 上午 11:41:47



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9262		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Detector	Comment
1	*	1850.500	10.79	4.26	15.05	-13.00	28.05			peak	TX
2		1898.200	-50.65	6.45	-44.20	-13.00	-31.20			peak	

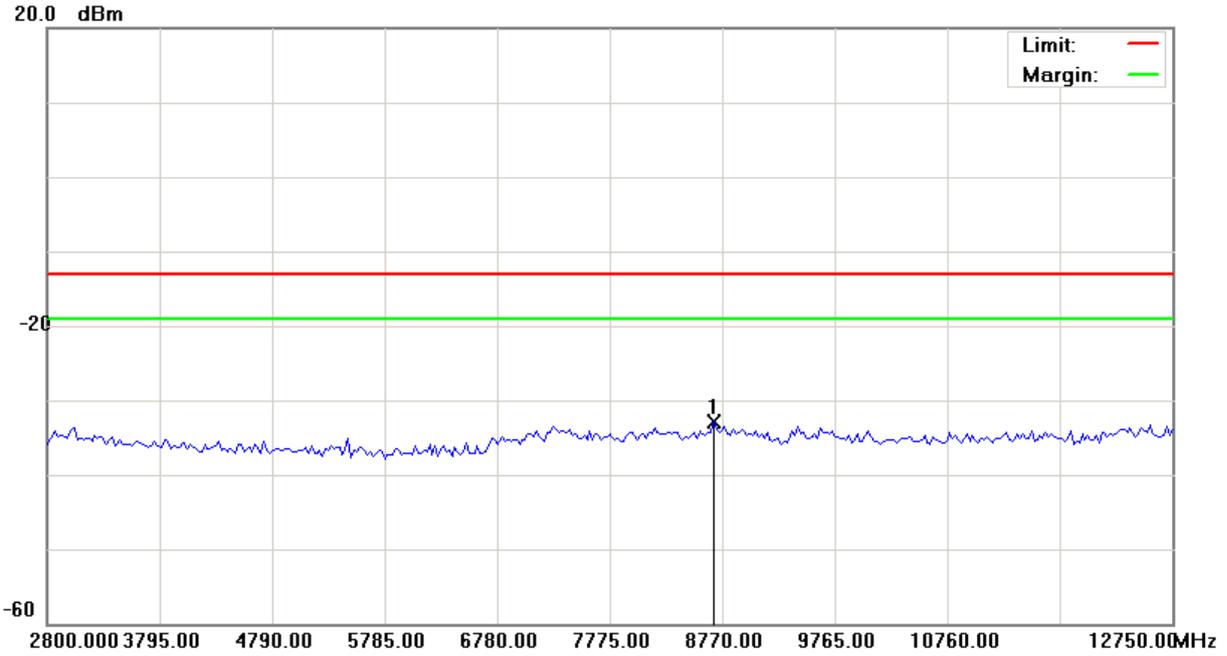
*:Maximum data x:Over limit !:over margin

File: PD98120(CH9262)

Data: #4

Date: 2010/10/13

Time: 下午 01:29:32

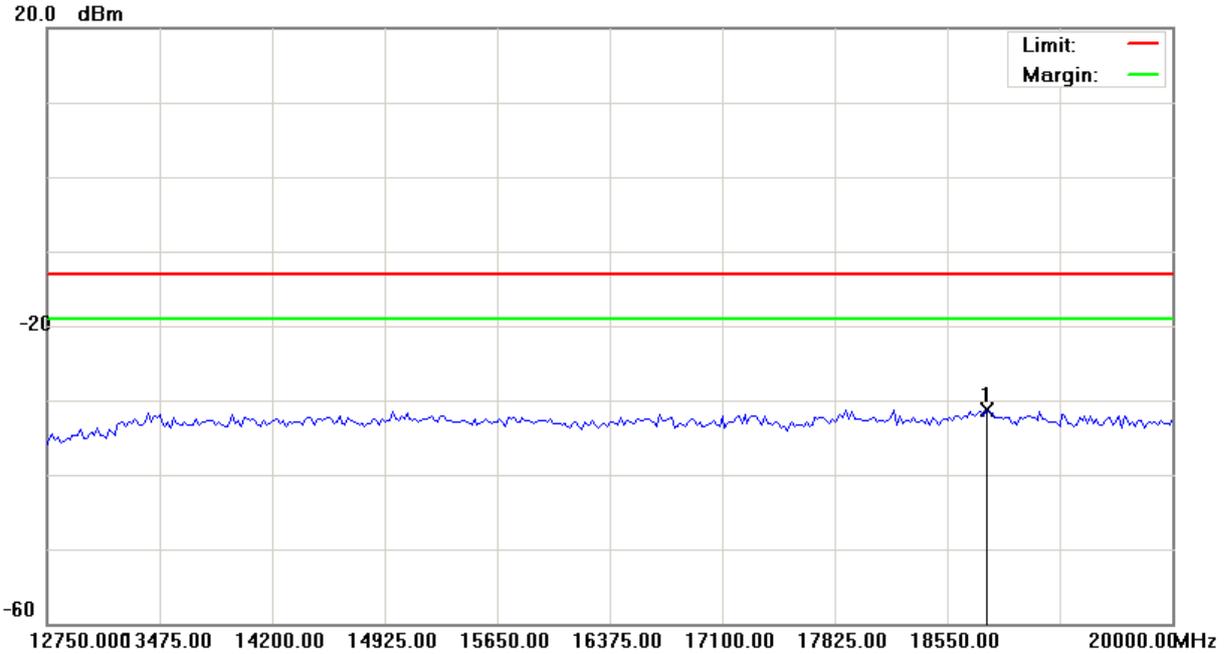


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9262		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	8695.375	-38.17	5.37	-32.80	-13.00	-19.80	peak		

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

File:PD98120(CH9262) Data :#5 Date:2010/10/13 Time: 下午 01:29:57

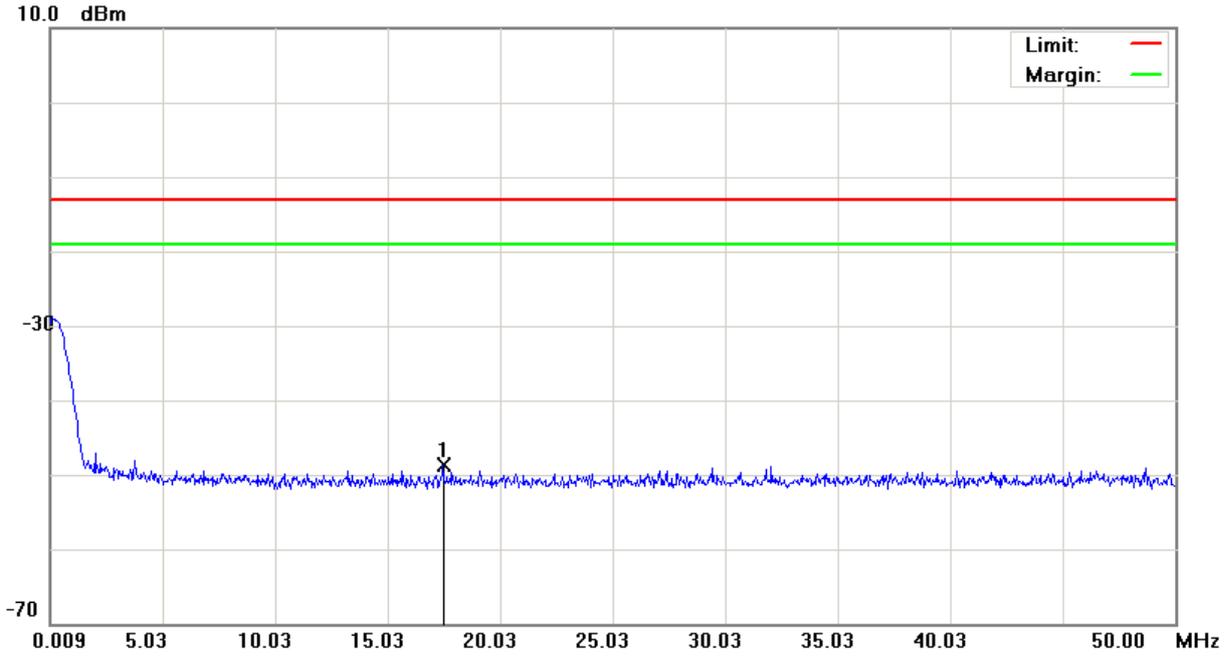


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9262		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	18803.750	-38.41	7.10	-31.31	-13.00	-18.31	peak		

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

File:PD98120(CH9400) Data: #1 Date: 2010/10/13 Time: 上午 11:36:24

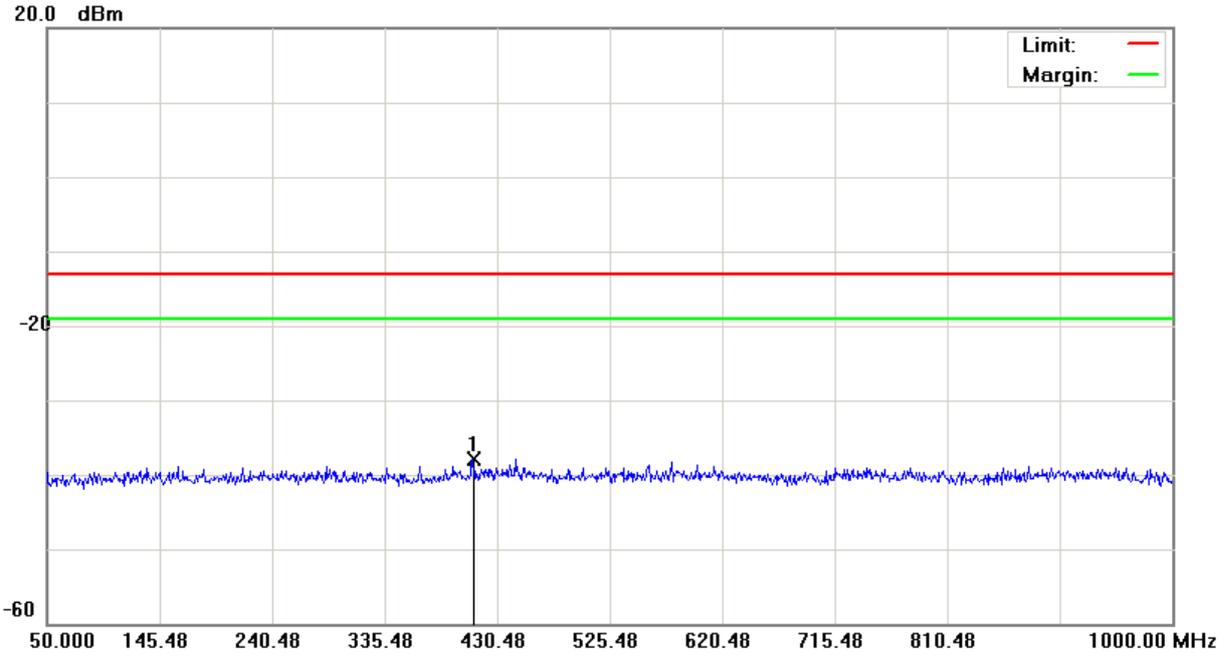


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9400		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	17.4808	-61.99	13.29	-48.70	-13.00	-35.70	peak		

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

File:PD98120(CH9400) Data :#2 Date:2010/10/13 Time: 上午 11:36:48

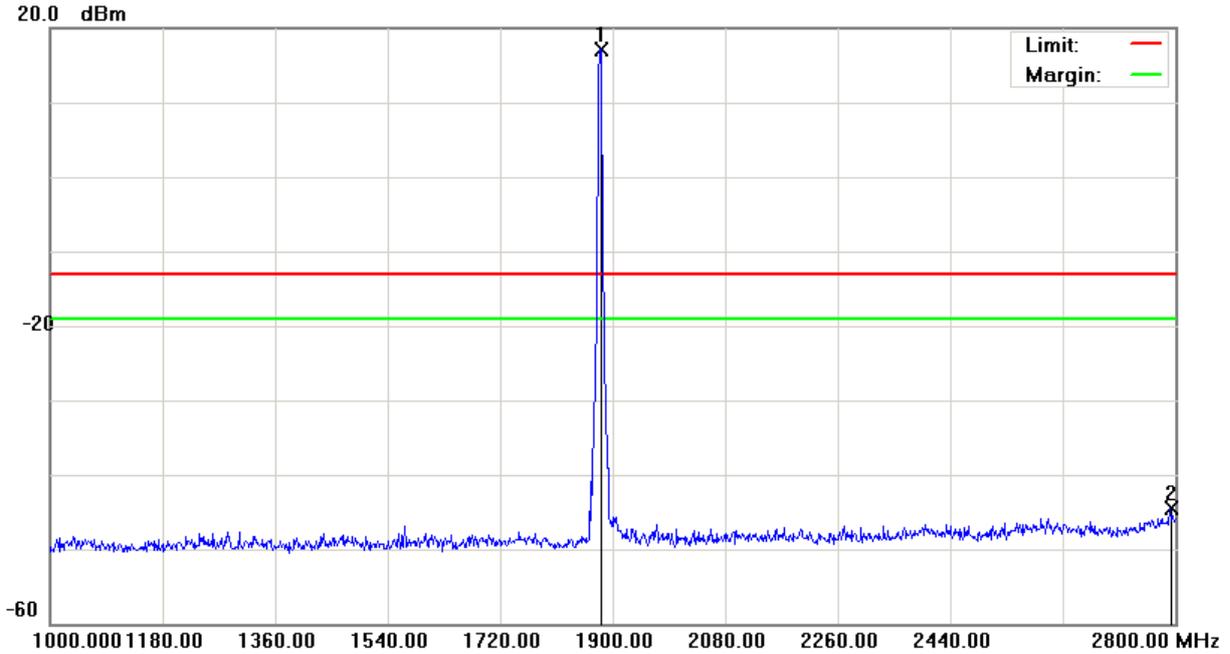


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9400		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	409.5750	-51.13	13.25	-37.88	-13.00	-24.88	peak		

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

File: PD98120(CH9400) Data: #3 Date: 2010/10/13 Time: 上午 11:43:24



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9400		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1882.000	12.23	4.83	17.06	-13.00	30.06	peak		
2		2791.900	-50.45	5.90	-44.55	-13.00	-31.55	peak		

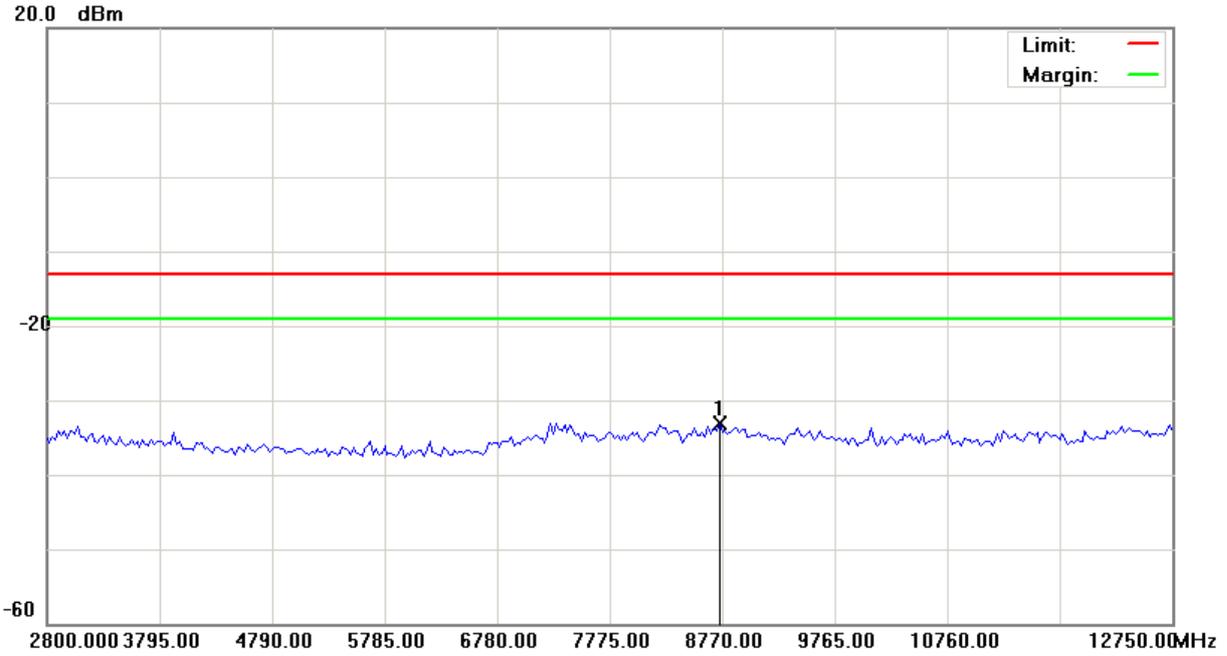
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File: PD98120(CH9400)

Data: #4

Date: 2010/10/13

Time: 下午 01:31:28

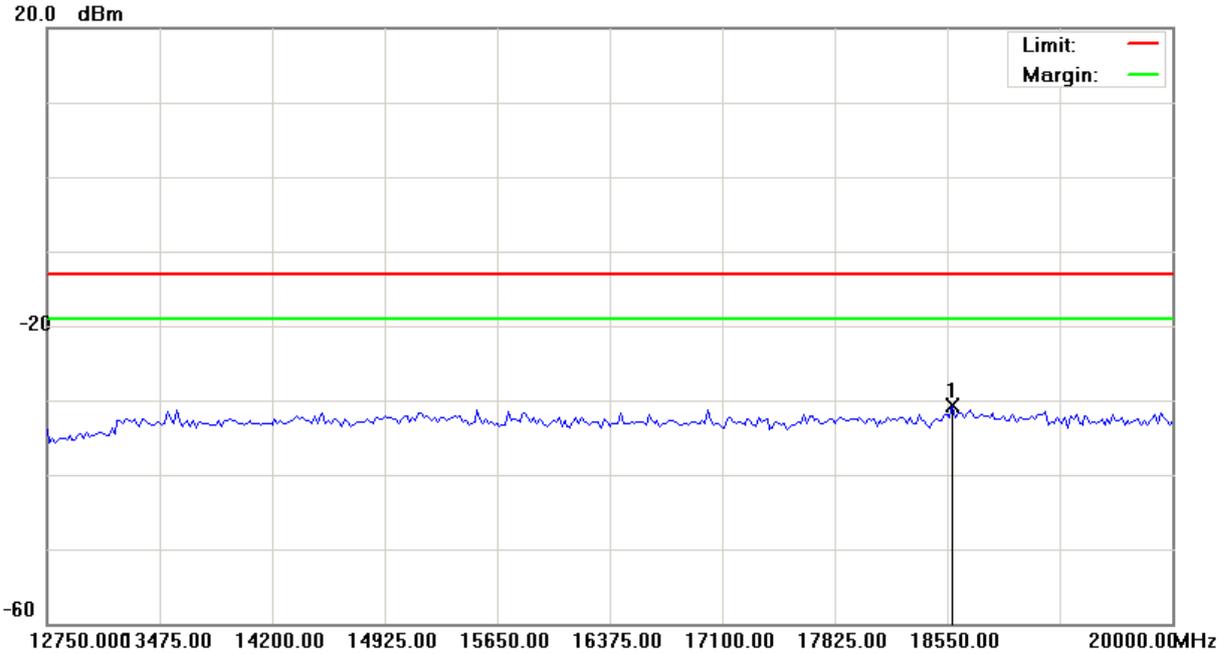


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9400		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	8745.125	-38.75	5.61	-33.14	-13.00	-20.14	peak		

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

File: PD98120(CH9400) Data: #5 Date: 2010/10/13 Time: 下午 01:31:53

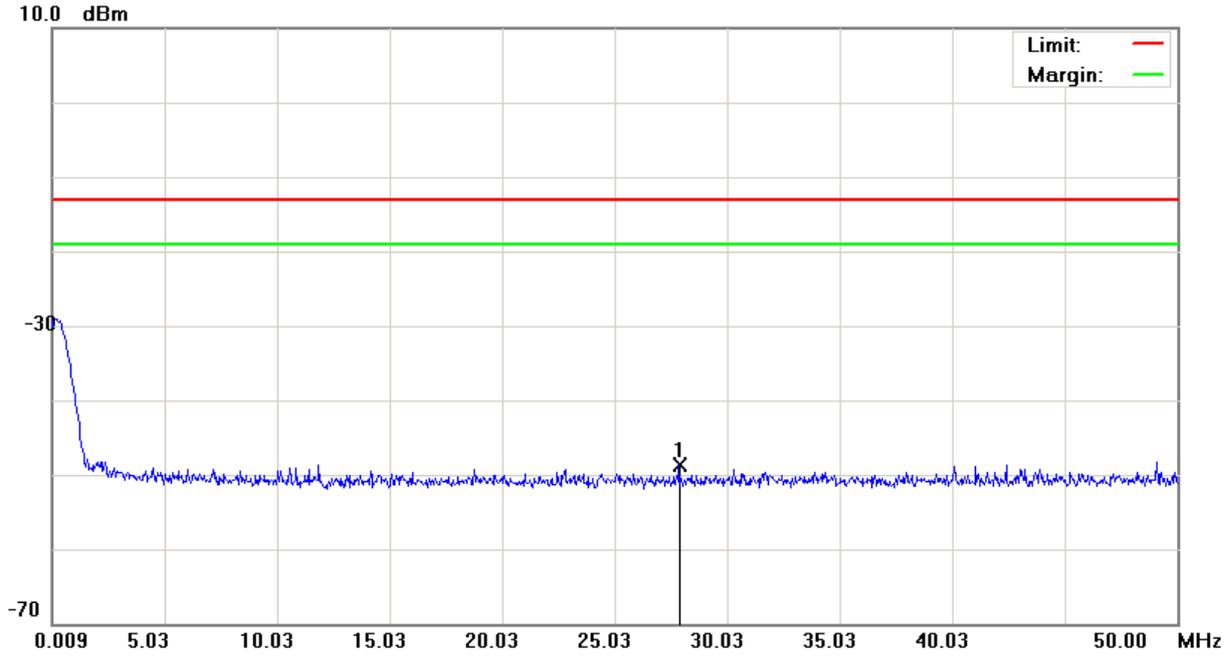


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9400		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	18586.250	-37.69	7.04	-30.65	-13.00	-17.65	peak		

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

File:PD98120(CH9538) Data: #1 Date: 2010/10/13 Time: 上午 11:38:48



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9538		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	27.8790	-61.87	13.27	-48.60	-13.00	-35.60	peak		

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

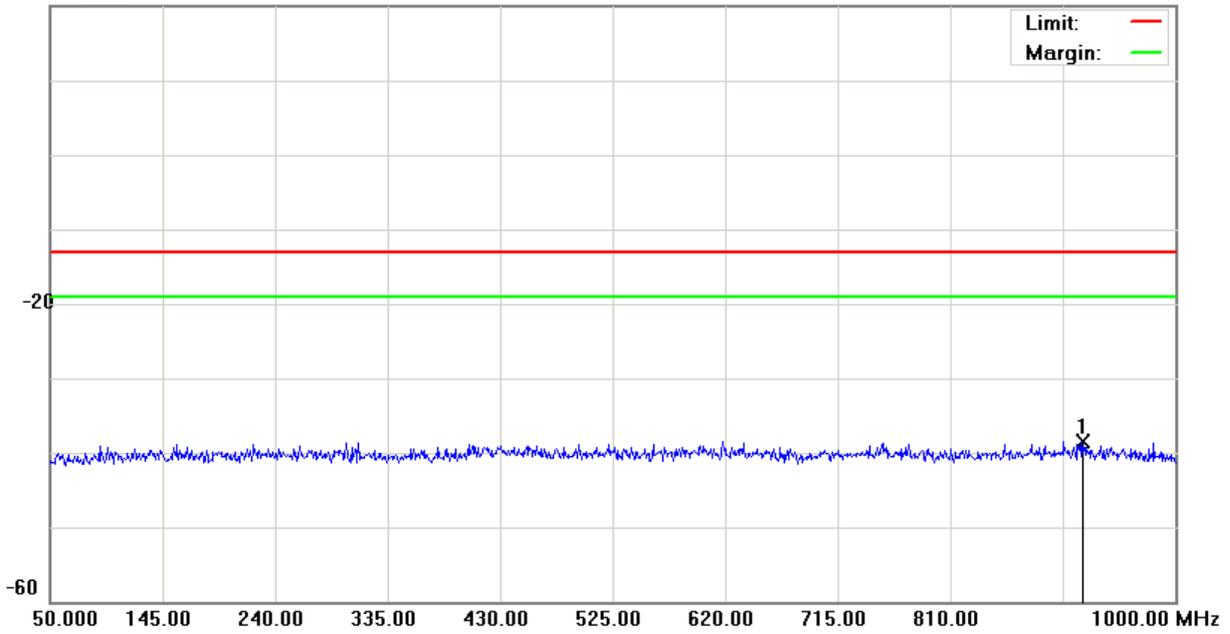
File: PD98120(CH9538)

Data: #2

Date: 2010/10/13

Time: 上午 11:39:12

20.0 dBm

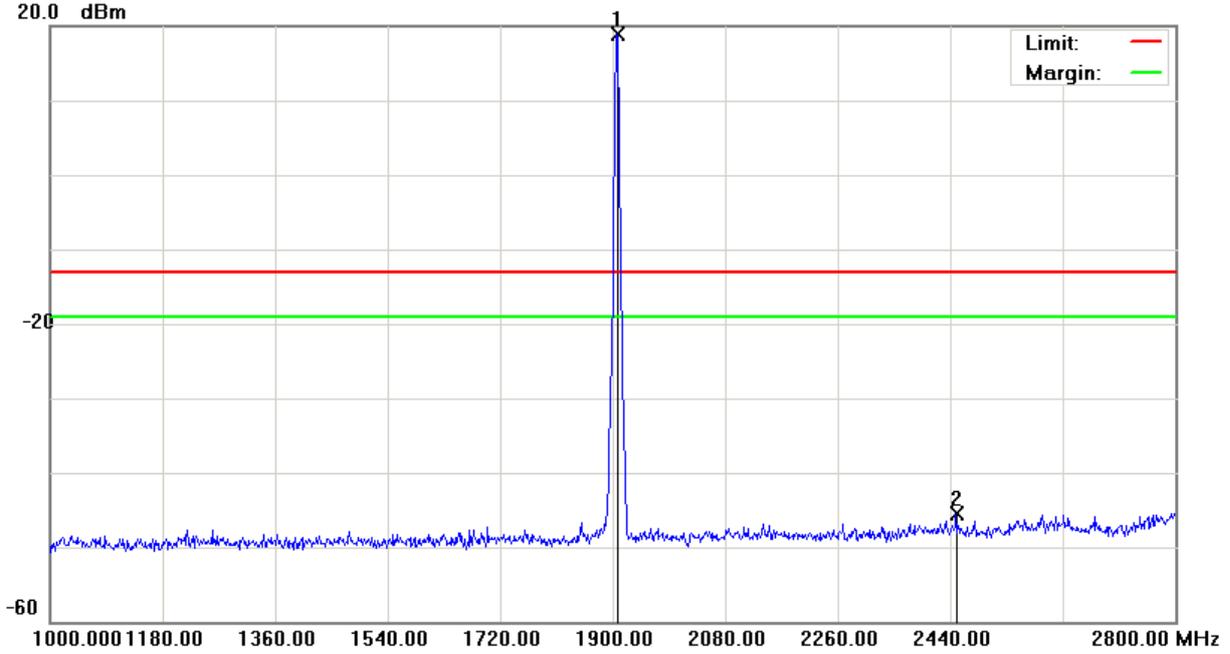


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9538		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	921.6250	-51.73	13.20	-38.53	-13.00	-25.53	peak		

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

File:PD98120(CH9538) Data: #3 Date: 2010/10/13 Time: 上午 11:45:18



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9538		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1906.300	12.81	6.05	18.86	-13.00	31.86	peak		TX
2		2449.900	-50.49	4.90	-45.59	-13.00	-32.59	peak		

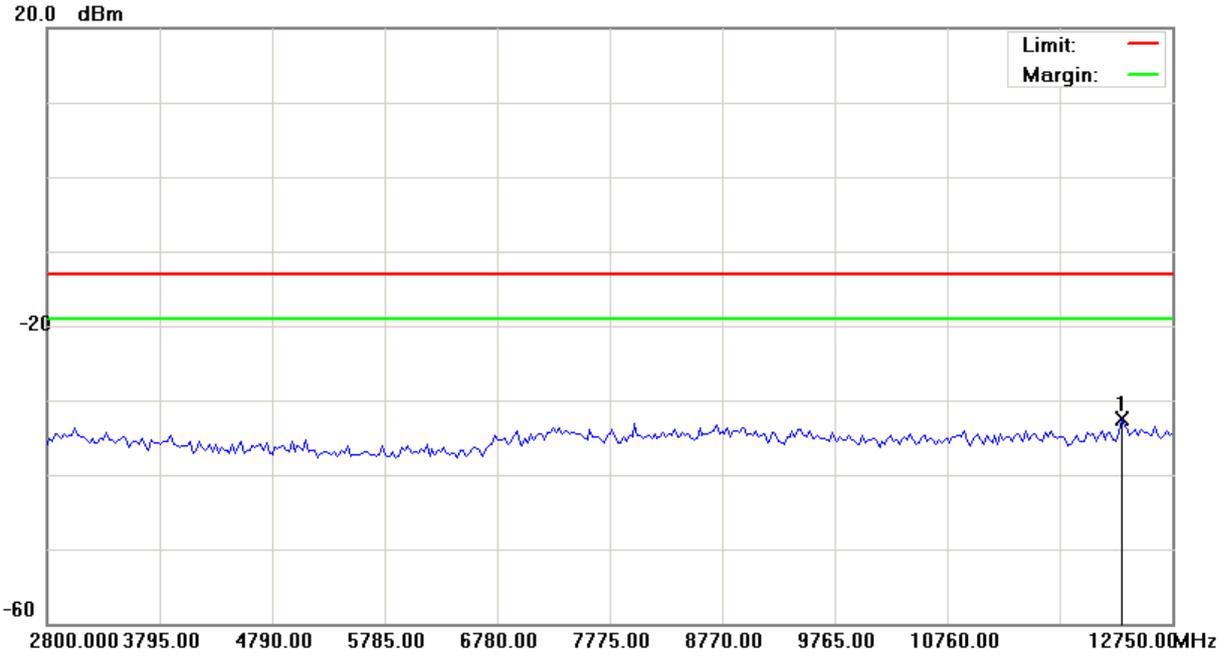
*:Maximum data x:Over limit !:over margin

File: PD98120(CH9538)

Data: #4

Date: 2010/10/13

Time: 下午 01:32:39



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9538		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	12302.250	-37.64	5.19	-32.45	-13.00	-19.45	peak		

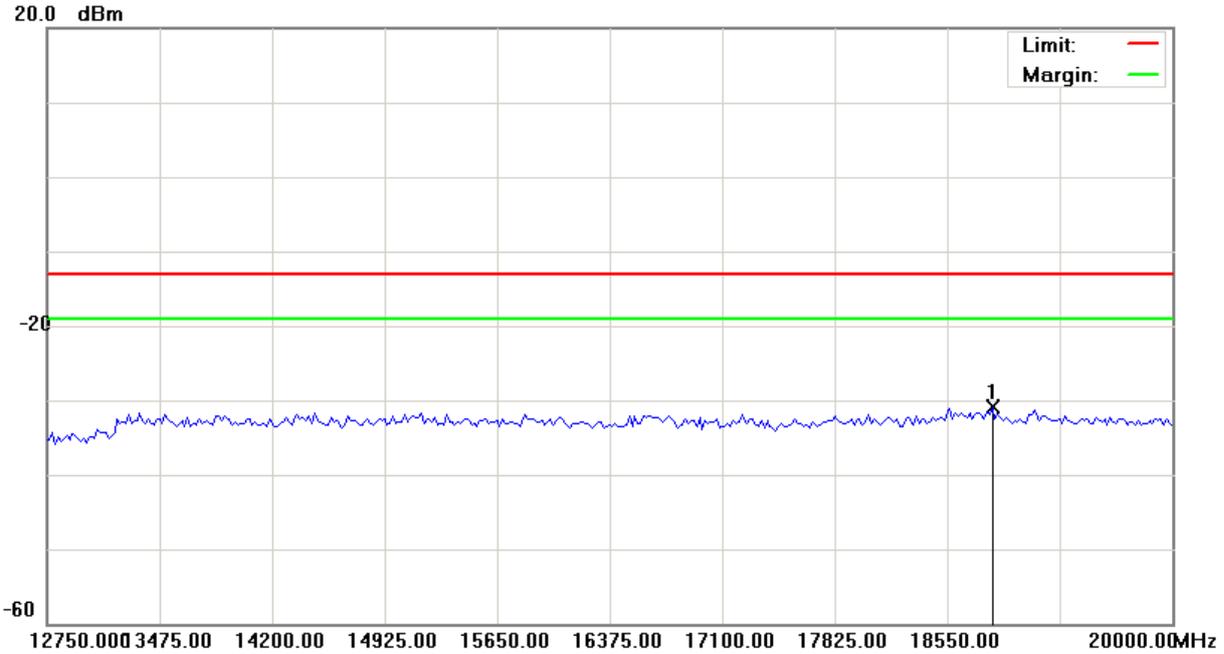
*:Maximum data x:Over limit !:over margin

File: PD98120(CH9538)

Data: #5

Date: 2010/10/13

Time: 下午 01:33:04



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 24 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 3		
Note: CH9538		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	18840.000	-38.01	7.11	-30.90	-13.00	-17.90	peak		

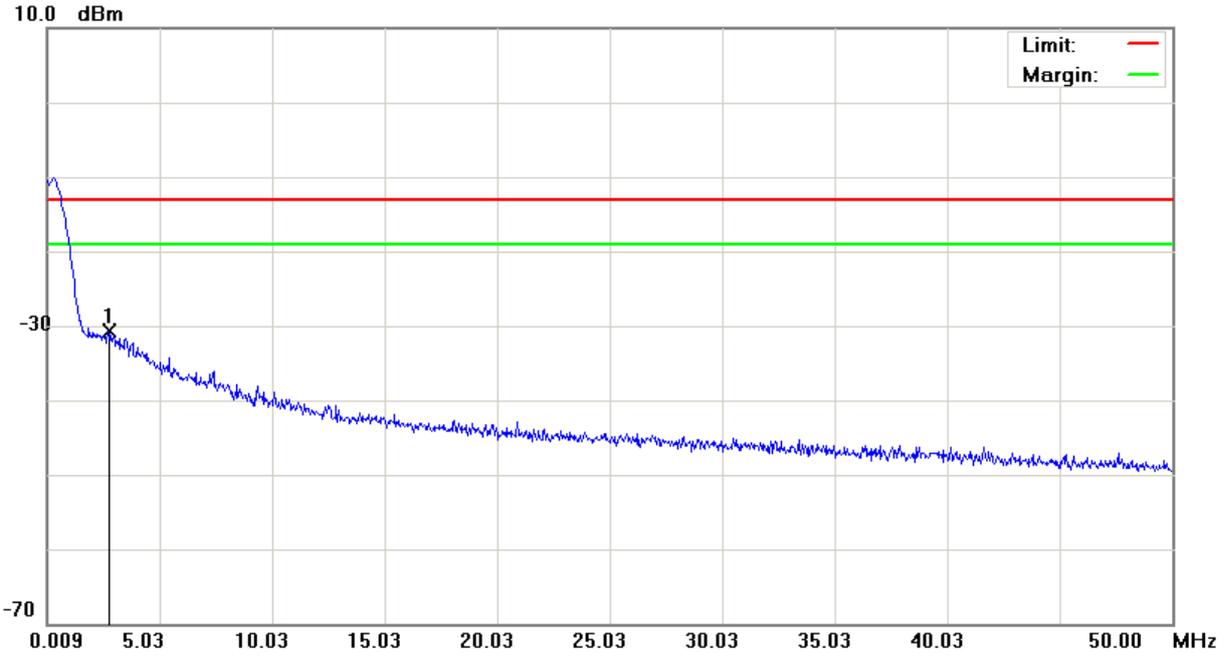
*:Maximum data x:Over limit !:over margin

File:PD98120(CH4132)

Data:#1

Date:2010/10/13

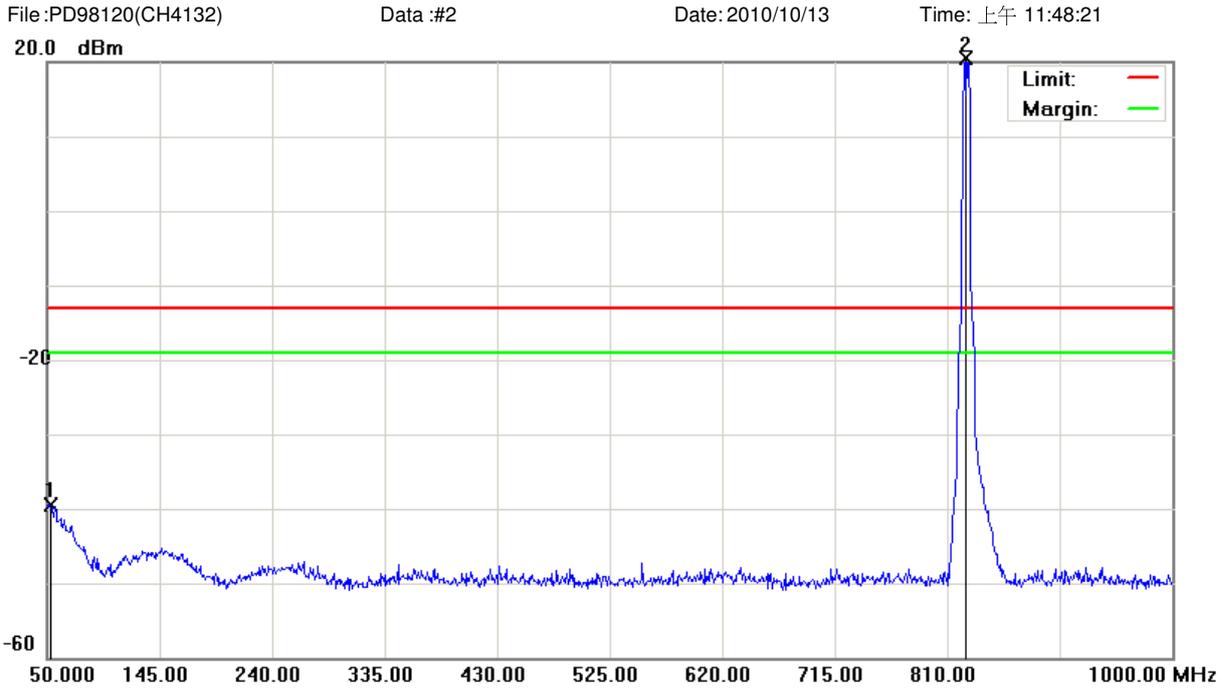
Time: 上午 11:47:57



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4132		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2.7334	-61.16	30.49	-30.67	-13.00	-17.67	peak		

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

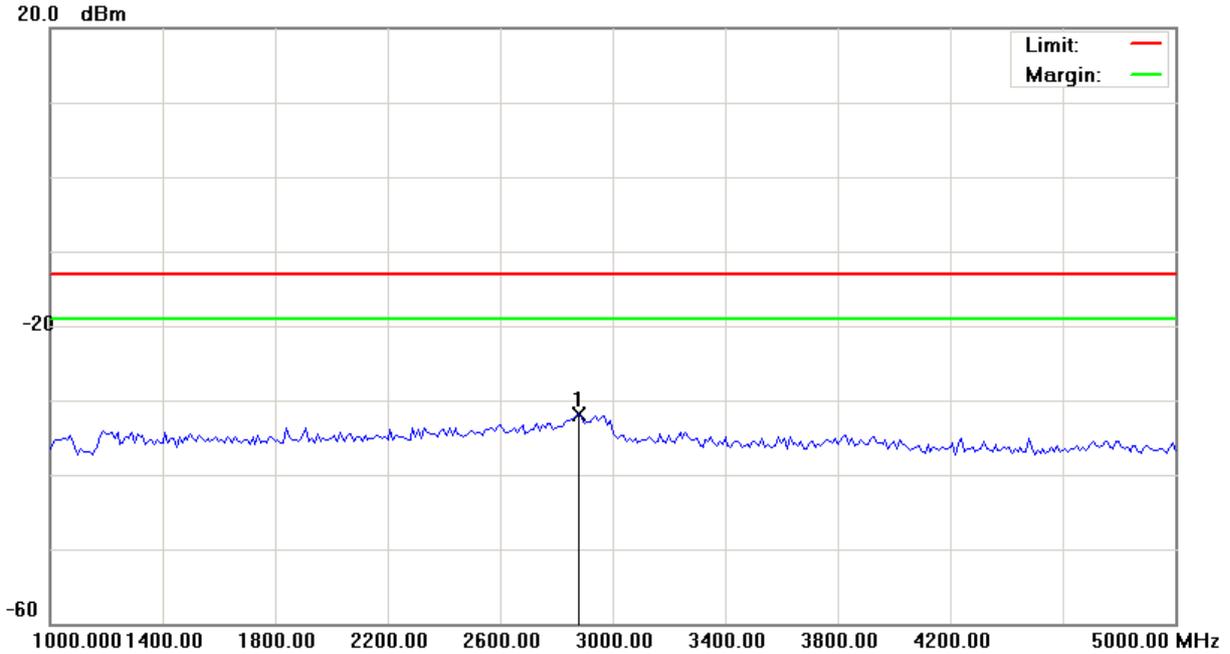


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4132		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		52.3750	-53.77	14.27	-39.50	-13.00	-26.50	peak		
2	*	825.2000	16.59	3.84	20.43	-13.00	33.43	peak		TX

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

File:PD98120(CH4132) Data: #3 Date: 2010/10/13 Time: 下午 01:17:22



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4132		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2880.000	-36.64	4.66	-31.98	-13.00	-18.98	peak		

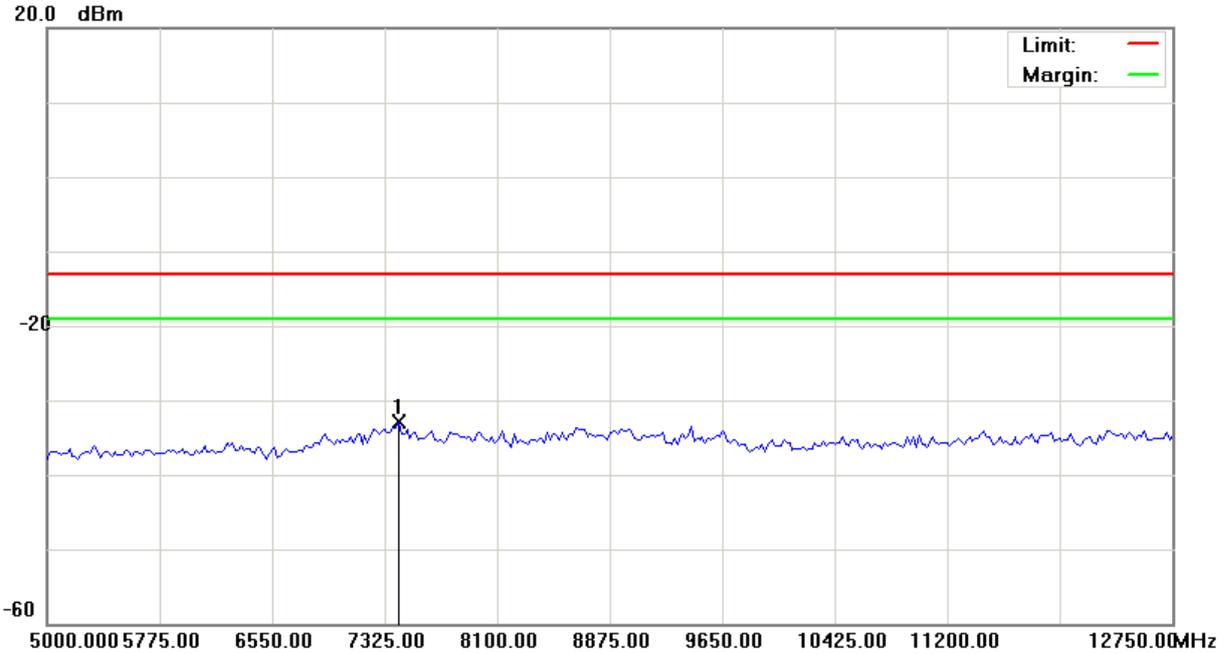
*:Maximum data x:Over limit !:over margin

File:PD98120(CH4132)

Data :#4

Date:2010/10/13

Time: 下午 01:17:47

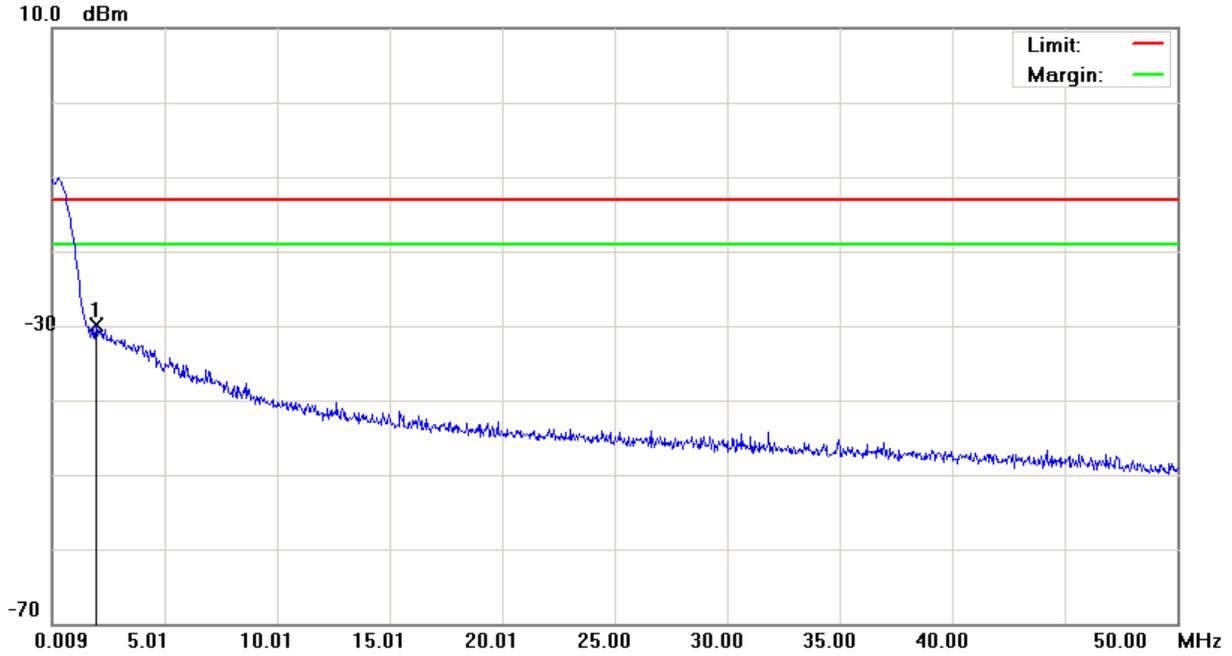


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4132		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	7421.875	-38.01	5.21	-32.80	-13.00	-19.80	peak		

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

File:PD98120(CH4183) Data :#1 Date:2010/10/13 Time: 上午 11:50:01

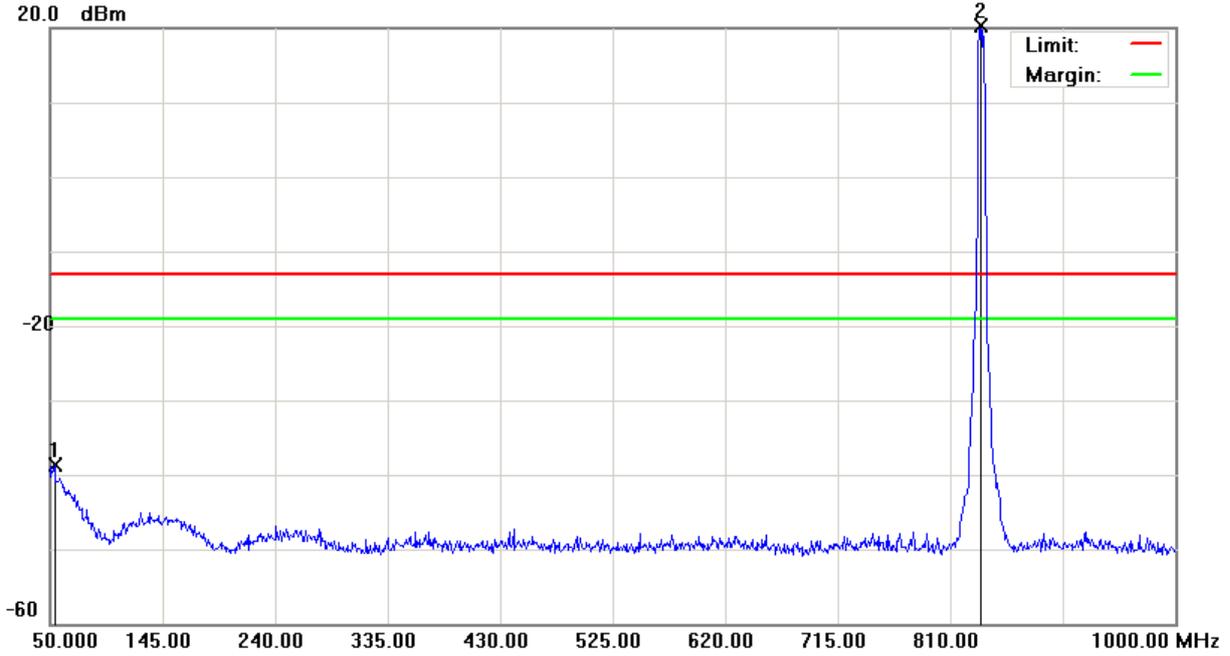


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4183		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1.9585	-61.15	31.28	-29.87	-13.00	-16.87	peak		

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

File:PD98120(CH4183) Data :#2 Date:2010/10/13 Time: 上午 11:50:25



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4183		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		53.8000	-52.68	14.02	-38.66	-13.00	-25.66	peak		
2	*	835.1750	16.35	3.95	20.30	-13.00	33.30	peak		TX

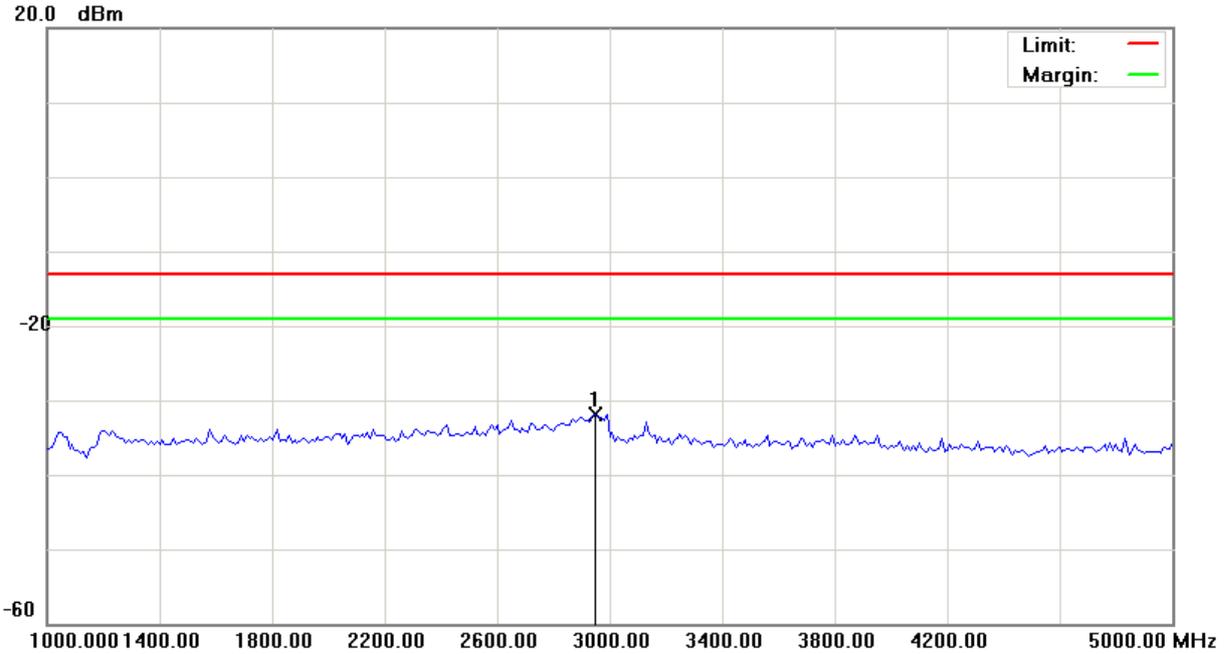
*:Maximum data x:Over limit !:over margin

File: PD98120(CH4183)

Data: #3

Date: 2010/10/13

Time: 下午 01:19:01



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4183		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2950.000	-36.49	4.58	-31.91	-13.00	-18.91	peak		

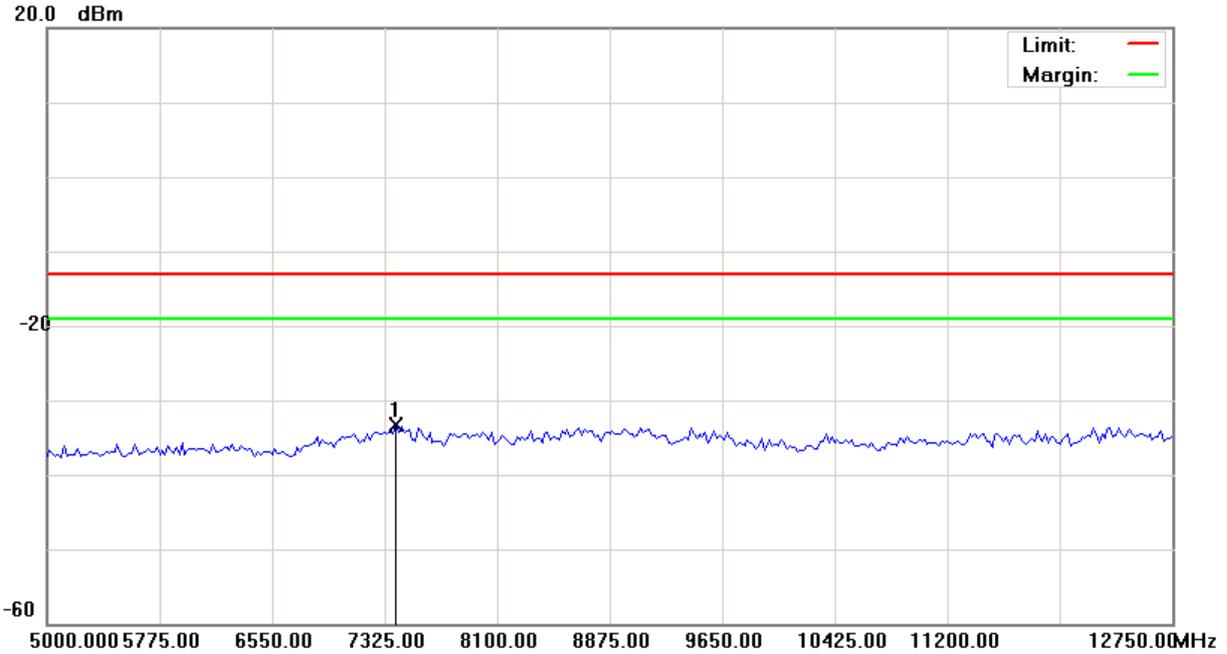
*:Maximum data x:Over limit !:over margin

File: PD98120(CH4183)

Data: #4

Date: 2010/10/13

Time: 下午 01:19:26



Site: : RF Conducted

 Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 120V/60Hz

Humidity: 55 %

EUT: Smartphone

Distance:

RBW: 1000 MHz VBW: 1000 MHz

M/N: PD98120

Mode: 4

Note: CH4183

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	7402.500	-38.51	5.20	-33.31	-13.00	-20.31	peak		

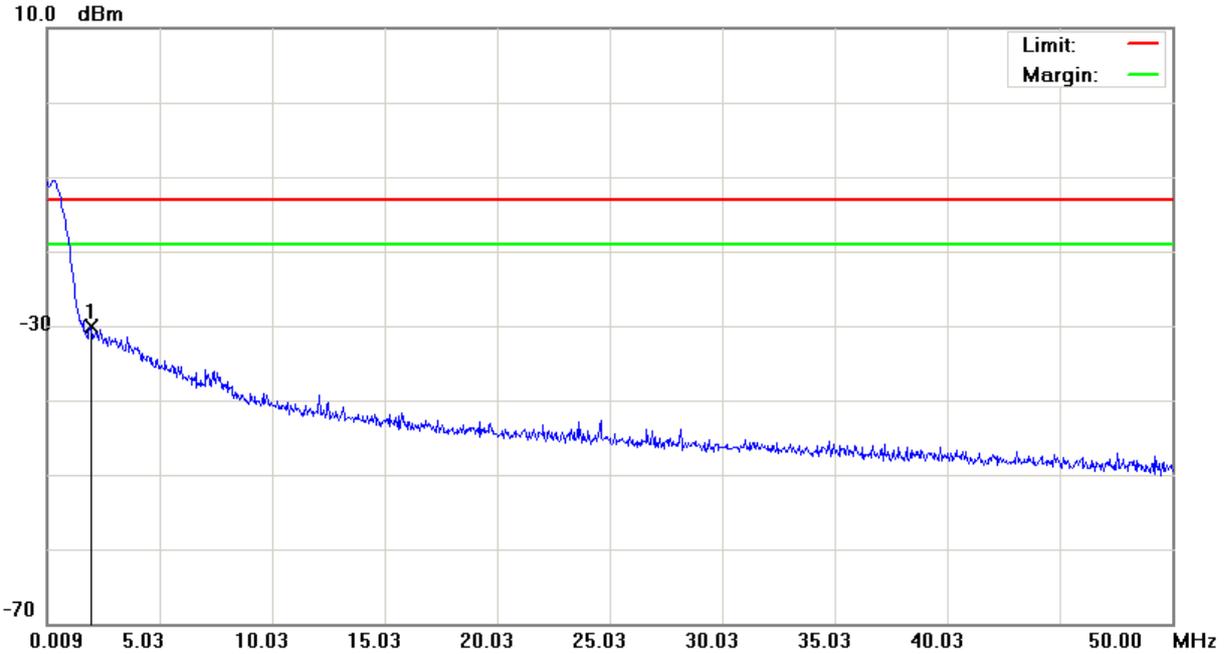
*:Maximum data x:Over limit !:over margin

File: PD98120(CH4233)

Data: #1

Date: 2010/10/13

Time: 上午 11:52:49

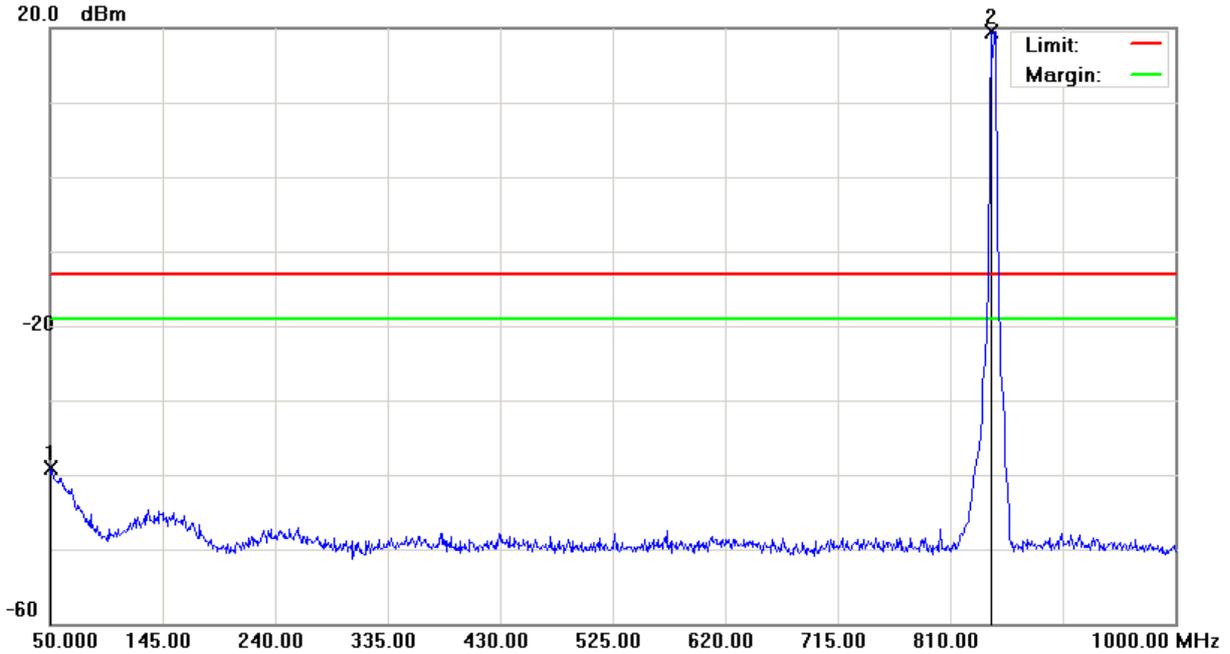


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4233		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	1.9336	-61.37	31.24	-30.13	-13.00	-17.13	peak		

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

File:PD98120(CH4233) Data :#2 Date:2010/10/13 Time: 上午 11:53:13



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4233		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.0000	-53.73	14.69	-39.04	-13.00	-26.04	peak		
2	*	845.1500	15.55	3.99	19.54	-13.00	32.54	peak		TX

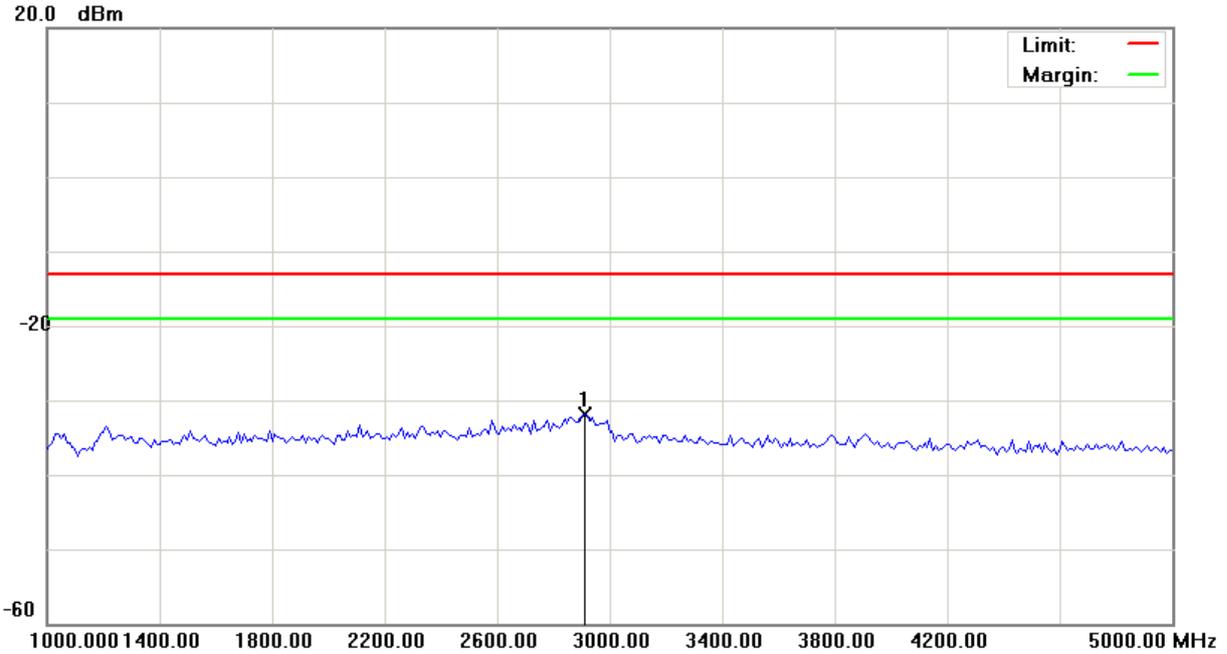
*:Maximum data x:Over limit !:over margin

File: PD98120(CH4233)

Data: #3

Date: 2010/10/13

Time: 下午 01:21:59

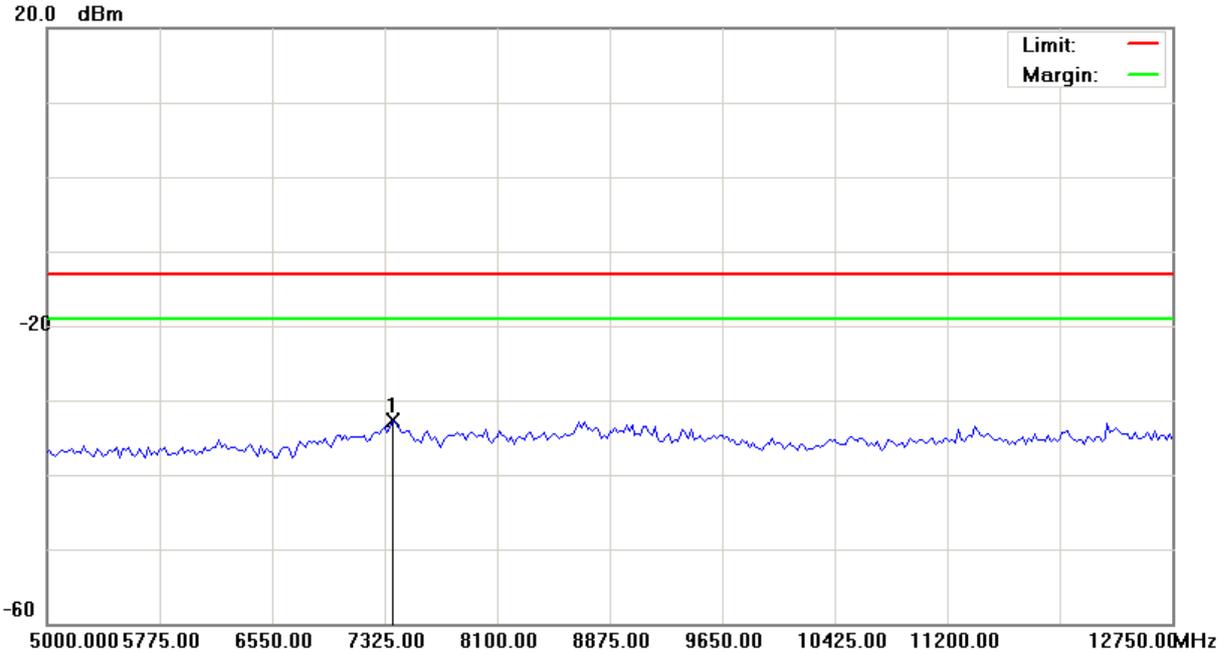


Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4233		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2910.000	-36.63	4.72	-31.91	-13.00	-18.91	peak		

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

File:PD98120(CH4233) Data :#4 Date:2010/10/13 Time: 下午 01:22:24



Site: : RF Conducted	Polarization: Conducted po	Temperature: 26 °C
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Smartphone	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: PD98120		
Mode: 4		
Note: CH4233		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	7383.125	-37.92	5.14	-32.78	-13.00	-19.78	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 $43 + 10\log(P)$ dB.

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

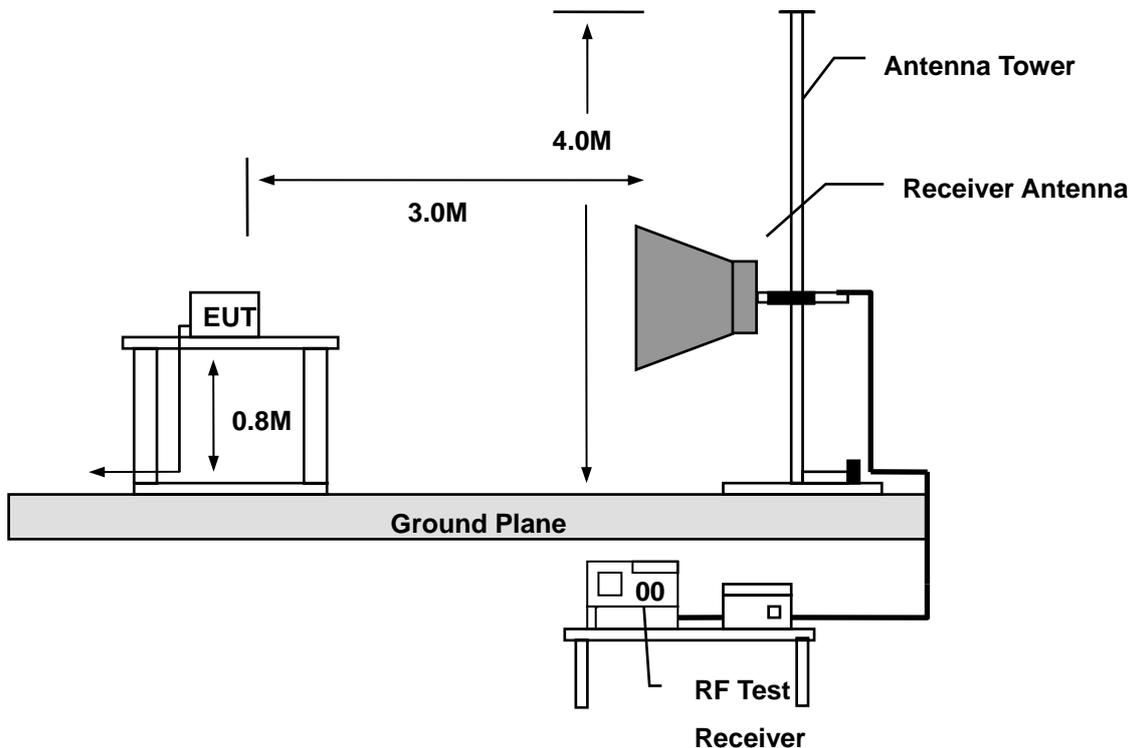
6.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/07/2009	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	02/24/2010	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2010	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2010	(1)
Bi-log Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/02/2010	(1)
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2010	(1)
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/29/2010	(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 three 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 (model 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 per meter (uV/m).

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

The actual field intensity in decibels 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.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)}$$

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 Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1 (GSM power amplifier #1)	Date:	10/14/2010
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	35.5000	-61.18	36.45	-24.73	-13.00	-11.73	peak	H
2	100.0000	-61.08	14.83	-46.25	-13.00	-33.25	peak	H
3	250.5000	-54.41	0.90	-53.51	-13.00	-40.51	peak	H
4	477.5000	-58.10	21.86	-36.24	-13.00	-23.24	peak	H
5	773.5000	-57.31	19.12	-38.19	-13.00	-25.19	peak	H
6	903.5000	-57.10	31.78	-25.32	-13.00	-12.32	peak	H
7	1064.0000	-62.90	11.52	-51.38	-13.00	-38.38	peak	H
8	1648.0000	-35.64	10.39	-25.25	-13.00	-12.25	peak	H
9	2472.0000	-54.96	11.91	-43.05	-13.00	-30.05	peak	H
1	101.5000	-62.13	11.05	-51.08	-13.00	-38.08	peak	V
2	285.5000	-59.21	13.18	-46.03	-13.00	-33.03	peak	V
3	341.0000	-59.06	12.66	-46.40	-13.00	-33.40	peak	V
4	681.5000	-57.57	21.83	-35.74	-13.00	-22.74	peak	V
5	732.0000	-56.20	22.55	-33.65	-13.00	-20.65	peak	V
6	993.5000	-55.07	26.54	-28.53	-13.00	-15.53	peak	V
7	1090.0000	-62.99	3.02	-59.97	-13.00	-46.97	peak	V
8	1648.0000	-37.97	6.70	-31.27	-13.00	-18.27	peak	V
9	2472.0000	-49.21	11.98	-37.23	-13.00	-24.23	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1 (GSM power amplifier #1)	Date:	10/14/2010
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	41.0000	-60.82	36.79	-24.03	-13.00	-11.03	peak	H
2	100.5000	-61.73	14.53	-47.20	-13.00	-34.20	peak	H
3	233.5000	-54.75	0.66	-54.09	-13.00	-41.09	peak	H
4	503.0000	-56.68	21.40	-35.28	-13.00	-22.28	peak	H
5	630.0000	-56.02	15.62	-40.40	-13.00	-27.40	peak	H
6	915.0000	-55.88	31.52	-24.36	-13.00	-11.36	peak	H
7	1072.0000	-61.88	11.50	-50.38	-13.00	-37.38	peak	H
8	1674.0000	-33.89	10.39	-23.50	-13.00	-10.50	peak	H
9	2510.0000	-56.64	12.03	-44.61	-13.00	-31.61	peak	H
1	43.0000	-59.81	17.79	-42.02	-13.00	-29.02	peak	V
2	101.5000	-61.25	11.05	-50.20	-13.00	-37.20	peak	V
3	283.0000	-58.76	13.32	-45.44	-13.00	-32.44	peak	V
4	649.5000	-56.92	20.49	-36.43	-13.00	-23.43	peak	V
5	737.0000	-55.28	22.77	-32.51	-13.00	-19.51	peak	V
6	957.5000	-55.44	25.15	-30.29	-13.00	-17.29	peak	V
7	1104.0000	-63.10	3.11	-59.99	-13.00	-46.99	peak	V
8	1674.0000	-37.37	6.90	-30.47	-13.00	-17.47	peak	V
9	2510.0000	-52.01	12.22	-39.79	-13.00	-26.79	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1 (GSM power amplifier #1)	Date:	10/14/2010
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	39.5000	-60.83	36.96	-23.87	-13.00	-10.87	peak	H
2	98.0000	-61.40	14.45	-46.95	-13.00	-33.95	peak	H
3	233.5000	-52.35	0.66	-51.69	-13.00	-38.69	peak	H
4	507.0000	-57.13	20.93	-36.20	-13.00	-23.20	peak	H
5	758.0000	-56.71	18.45	-38.26	-13.00	-25.26	peak	H
6	918.0000	-57.37	31.43	-25.94	-13.00	-12.94	peak	H
7	1068.0000	-62.83	11.50	-51.33	-13.00	-38.33	peak	H
8	1698.0000	-31.62	10.40	-21.22	-13.00	-8.22	peak	H
9	2546.0000	-58.28	12.15	-46.13	-13.00	-33.13	peak	H
1	99.5000	-61.44	11.07	-50.37	-13.00	-37.37	peak	V
2	261.0000	-58.09	12.12	-45.97	-13.00	-32.97	peak	V
3	356.0000	-58.46	12.15	-46.31	-13.00	-33.31	peak	V
4	648.0000	-56.47	20.44	-36.03	-13.00	-23.03	peak	V
5	753.0000	-56.91	22.84	-34.07	-13.00	-21.07	peak	V
6	996.0000	-56.34	26.66	-29.68	-13.00	-16.68	peak	V
7	1086.0000	-62.61	3.00	-59.61	-13.00	-46.61	peak	V
8	1698.0000	-35.18	7.08	-28.10	-13.00	-15.10	peak	V
9	2546.0000	-55.66	12.50	-43.16	-13.00	-30.16	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1 (GSM power amplifier #2)	Date:	10/20/2010
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	-56.61	8.77	-47.84	-13.00	-34.84	peak	H
2	160.5000	-61.19	1.05	-60.14	-13.00	-47.14	peak	H
3	201.5000	-61.68	2.61	-59.07	-13.00	-46.07	peak	H
4	541.5000	-58.21	8.24	-49.97	-13.00	-36.97	peak	H
5	737.5000	-56.90	8.10	-48.80	-13.00	-35.80	peak	H
6	954.0000	-55.98	14.84	-41.14	-13.00	-28.14	peak	H
7	1118.0000	-63.43	11.37	-52.06	-13.00	-39.06	peak	H
8	1648.0000	-35.99	10.39	-25.60	-13.00	-12.60	peak	H
9	2472.0000	-56.99	11.91	-45.08	-13.00	-32.08	peak	H
1	130.0000	-61.32	14.37	-46.95	-13.00	-33.95	peak	V
2	206.5000	-61.26	9.37	-51.89	-13.00	-38.89	peak	V
3	361.0000	-58.72	2.39	-56.33	-13.00	-43.33	peak	V
4	641.5000	-56.79	8.68	-48.11	-13.00	-35.11	peak	V
5	786.0000	-56.92	11.45	-45.47	-13.00	-32.47	peak	V
6	957.5000	-56.24	12.42	-43.82	-13.00	-30.82	peak	V
7	1100.0000	-62.96	3.09	-59.87	-13.00	-46.87	peak	V
8	1648.0000	-40.37	6.70	-33.67	-13.00	-20.67	peak	V
9	2472.0000	-53.80	11.98	-41.82	-13.00	-28.82	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1 (GSM power amplifier #2)	Date:	10/20/2010
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	-55.22	8.77	-46.45	-13.00	-33.45	peak	H
2	204.0000	-61.11	2.02	-59.09	-13.00	-46.09	peak	H
3	522.0000	-57.01	7.72	-49.29	-13.00	-36.29	peak	H
4	663.0000	-56.43	7.13	-49.30	-13.00	-36.30	peak	H
5	788.0000	-57.30	10.61	-46.69	-13.00	-33.69	peak	H
6	950.0000	-56.61	14.84	-41.77	-13.00	-28.77	peak	H
7	1098.0000	-62.82	11.43	-51.39	-13.00	-38.39	peak	H
8	1674.0000	-36.80	10.39	-26.41	-13.00	-13.41	peak	H
9	2510.0000	-56.27	12.03	-44.24	-13.00	-31.24	peak	H
1	130.5000	-61.73	14.10	-47.63	-13.00	-34.63	peak	V
2	205.0000	-60.90	9.55	-51.35	-13.00	-38.35	peak	V
3	358.5000	-57.95	2.33	-55.62	-13.00	-42.62	peak	V
4	663.0000	-57.09	9.41	-47.68	-13.00	-34.68	peak	V
5	791.5000	-54.21	11.61	-42.60	-13.00	-29.60	peak	V
6	993.5000	-56.52	12.99	-43.53	-13.00	-30.53	peak	V
7	1102.0000	-62.61	3.10	-59.51	-13.00	-46.51	peak	V
8	1674.0000	-37.56	6.90	-30.66	-13.00	-17.66	peak	V
9	2510.0000	-54.55	12.22	-42.33	-13.00	-29.33	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1 (GSM power amplifier #2)	Date:	10/20/2010
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	-57.34	8.77	-48.57	-13.00	-35.57	peak	H
2	201.0000	-62.14	2.73	-59.41	-13.00	-46.41	peak	H
3	540.5000	-58.01	8.25	-49.76	-13.00	-36.76	peak	H
4	651.5000	-55.28	7.03	-48.25	-13.00	-35.25	peak	H
5	790.5000	-55.58	10.73	-44.85	-13.00	-31.85	peak	H
6	959.5000	-55.85	14.83	-41.02	-13.00	-28.02	peak	H
7	1090.0000	-62.59	11.45	-51.14	-13.00	-38.14	peak	H
8	1698.0000	-36.37	10.40	-25.97	-13.00	-12.97	peak	H
9	2546.0000	-58.11	12.15	-45.96	-13.00	-32.96	peak	H
1	131.0000	-61.48	13.82	-47.66	-13.00	-34.66	peak	V
2	205.5000	-62.09	9.48	-52.61	-13.00	-39.61	peak	V
3	299.0000	-58.00	2.62	-55.38	-13.00	-42.38	peak	V
4	713.5000	-56.83	10.64	-46.19	-13.00	-33.19	peak	V
5	797.0000	-56.91	11.77	-45.14	-13.00	-32.14	peak	V
6	999.0000	-56.74	13.19	-43.55	-13.00	-30.55	peak	V
7	1114.0000	-62.97	3.18	-59.79	-13.00	-46.79	peak	V
8	1698.0000	-33.73	7.08	-26.65	-13.00	-13.65	peak	V
9	2546.0000	-58.49	12.50	-45.99	-13.00	-32.99	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2 (GSM power amplifier #1)	Date:	10/14/2010
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	39.0000	-61.15	36.90	-24.25	-13.00	-11.25	peak	H
2	101.5000	-60.58	13.94	-46.64	-13.00	-33.64	peak	H
3	350.5000	-58.91	7.35	-51.56	-13.00	-38.56	peak	H
4	474.5000	-57.93	21.31	-36.62	-13.00	-23.62	peak	H
5	789.5000	-57.60	19.82	-37.78	-13.00	-24.78	peak	H
6	906.0000	-57.13	31.73	-25.40	-13.00	-12.40	peak	H
7	1502.0000	-62.75	10.35	-52.40	-13.00	-39.40	peak	H
8	1850.0000	-54.21	10.42	-43.79	-13.00	-30.79	peak	H
9	2452.0000	-64.59	11.84	-52.75	-13.00	-39.75	peak	H
1	46.5000	-58.11	17.51	-40.60	-13.00	-27.60	peak	V
2	110.0000	-59.95	9.25	-50.70	-13.00	-37.70	peak	V
3	278.5000	-59.35	13.39	-45.96	-13.00	-32.96	peak	V
4	683.5000	-57.07	21.73	-35.34	-13.00	-22.34	peak	V
5	917.5000	-57.53	24.13	-33.40	-13.00	-20.40	peak	V
6	992.0000	-56.93	26.47	-30.46	-13.00	-17.46	peak	V
7	1556.0000	-63.61	5.98	-57.63	-13.00	-44.63	peak	V
8	1850.0000	-48.83	8.26	-40.57	-13.00	-27.57	peak	V
9	2496.0000	-66.12	12.10	-54.02	-13.00	-41.02	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2 (GSM power amplifier #1)	Date:	10/14/2010
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	40.0000	-61.49	37.02	-24.47	-13.00	-11.47	peak	H
2	100.0000	-62.50	14.83	-47.67	-13.00	-34.67	peak	H
3	356.0000	-57.93	7.21	-50.72	-13.00	-37.72	peak	H
4	482.5000	-59.15	22.24	-36.91	-13.00	-23.91	peak	H
5	747.0000	-55.79	18.03	-37.76	-13.00	-24.76	peak	H
6	912.0000	-56.65	31.59	-25.06	-13.00	-12.06	peak	H
7	1514.0000	-63.23	10.37	-52.86	-13.00	-39.86	peak	H
8	1880.0000	-56.37	10.44	-45.93	-13.00	-32.93	peak	H
9	2450.0000	-64.99	11.83	-53.16	-13.00	-40.16	peak	H
1	101.0000	-61.38	11.14	-50.24	-13.00	-37.24	peak	V
2	278.5000	-59.38	13.39	-45.99	-13.00	-32.99	peak	V
3	593.5000	-57.32	17.28	-40.04	-13.00	-27.04	peak	V
4	736.5000	-56.99	22.75	-34.24	-13.00	-21.24	peak	V
5	914.0000	-57.13	24.05	-33.08	-13.00	-20.08	peak	V
6	987.5000	-55.99	26.27	-29.72	-13.00	-16.72	peak	V
7	1544.0000	-63.74	5.90	-57.84	-13.00	-44.84	peak	V
8	1880.0000	-50.03	8.50	-41.53	-13.00	-28.53	peak	V
9	2448.0000	-65.32	11.84	-53.48	-13.00	-40.48	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2 (GSM power amplifier #1)	Date:	10/14/2010
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	37.0000	-61.12	36.64	-24.48	-13.00	-11.48	peak	H
2	98.0000	-61.68	14.45	-47.23	-13.00	-34.23	peak	H
3	341.0000	-58.92	7.60	-51.32	-13.00	-38.32	peak	H
4	480.5000	-57.99	22.30	-35.69	-13.00	-22.69	peak	H
5	763.0000	-57.10	18.65	-38.45	-13.00	-25.45	peak	H
6	909.5000	-57.48	31.64	-25.84	-13.00	-12.84	peak	H
7	1514.0000	-63.59	10.37	-53.22	-13.00	-40.22	peak	H
8	1910.0000	-55.57	10.44	-45.13	-13.00	-32.13	peak	H
9	2464.0000	-65.36	11.88	-53.48	-13.00	-40.48	peak	H
1	34.0000	-56.97	15.85	-41.12	-13.00	-28.12	peak	V
2	101.5000	-61.07	11.05	-50.02	-13.00	-37.02	peak	V
3	292.5000	-58.95	12.78	-46.17	-13.00	-33.17	peak	V
4	598.5000	-59.02	17.75	-41.27	-13.00	-28.27	peak	V
5	751.0000	-57.43	22.85	-34.58	-13.00	-21.58	peak	V
6	953.0000	-55.70	25.02	-30.68	-13.00	-17.68	peak	V
7	1544.0000	-64.17	5.90	-58.27	-13.00	-45.27	peak	V
8	1910.0000	-51.68	8.73	-42.95	-13.00	-29.95	peak	V
9	2462.0000	-65.54	11.92	-53.62	-13.00	-40.62	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2 (GSM power amplifier #2)	Date:	10/20/2010
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	42.5000	-61.20	9.19	-52.01	-13.00	-39.01	peak	H
2	203.5000	-61.94	2.14	-59.80	-13.00	-46.80	peak	H
3	405.5000	-58.09	2.78	-55.31	-13.00	-42.31	peak	H
4	537.5000	-57.19	8.18	-49.01	-13.00	-36.01	peak	H
5	809.5000	-56.83	11.57	-45.26	-13.00	-32.26	peak	H
6	932.0000	-56.62	14.81	-41.81	-13.00	-28.81	peak	H
7	1850.0000	-58.21	10.42	-47.79	-13.00	-34.79	peak	H
8	2444.0000	-64.28	11.82	-52.46	-13.00	-39.46	peak	H
9	3700.0000	-64.88	15.75	-49.13	-13.00	-36.13	peak	H
1	130.5000	-61.57	14.10	-47.47	-13.00	-34.47	peak	V
2	200.0000	-62.00	10.15	-51.85	-13.00	-38.85	peak	V
3	357.0000	-58.11	2.24	-55.87	-13.00	-42.87	peak	V
4	698.5000	-56.38	10.14	-46.24	-13.00	-33.24	peak	V
5	805.0000	-57.38	11.72	-45.66	-13.00	-32.66	peak	V
6	986.5000	-55.91	12.75	-43.16	-13.00	-30.16	peak	V
7	1850.0000	-50.85	8.26	-42.59	-13.00	-29.59	peak	V
8	2464.0000	-65.12	11.94	-53.18	-13.00	-40.18	peak	V
9	3700.0000	-61.16	19.81	-41.35	-13.00	-28.35	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2 (GSM power amplifier #2)	Date:	10/20/2010
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	42.5000	-61.18	9.19	-51.99	-13.00	-38.99	peak	H
2	200.5000	-61.76	2.83	-58.93	-13.00	-45.93	peak	H
3	451.0000	-57.38	4.30	-53.08	-13.00	-40.08	peak	H
4	627.0000	-57.01	7.39	-49.62	-13.00	-36.62	peak	H
5	821.0000	-57.16	11.93	-45.23	-13.00	-32.23	peak	H
6	974.0000	-55.25	14.48	-40.77	-13.00	-27.77	peak	H
7	1880.0000	-55.48	10.44	-45.04	-13.00	-32.04	peak	H
8	2506.0000	-65.67	12.01	-53.66	-13.00	-40.66	peak	H
9	3760.0000	-63.53	15.89	-47.64	-13.00	-34.64	peak	H
1	52.5000	-55.86	-6.09	-61.95	-13.00	-48.95	peak	V
2	130.0000	-62.48	14.37	-48.11	-13.00	-35.11	peak	V
3	203.0000	-61.75	9.79	-51.96	-13.00	-38.96	peak	V
4	629.0000	-56.90	8.77	-48.13	-13.00	-35.13	peak	V
5	791.5000	-56.67	11.61	-45.06	-13.00	-32.06	peak	V
6	948.5000	-56.45	12.58	-43.87	-13.00	-30.87	peak	V
7	1880.0000	-50.75	8.50	-42.25	-13.00	-29.25	peak	V
8	2474.0000	-64.83	12.00	-52.83	-13.00	-39.83	peak	V
9	3760.0000	-62.78	19.98	-42.80	-13.00	-29.80	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2 (GSM power amplifier #2)	Date:	10/20/2010
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	42.5000	-61.18	9.19	-51.99	-13.00	-38.99	peak	H
2	203.5000	-61.10	2.14	-58.96	-13.00	-45.96	peak	H
3	501.0000	-57.77	7.00	-50.77	-13.00	-37.77	peak	H
4	632.0000	-56.66	7.16	-49.50	-13.00	-36.50	peak	H
5	828.0000	-57.60	11.99	-45.61	-13.00	-32.61	peak	H
6	951.5000	-56.78	14.85	-41.93	-13.00	-28.93	peak	H
7	1910.0000	-59.10	10.44	-48.66	-13.00	-35.66	peak	H
8	2446.0000	-65.25	11.83	-53.42	-13.00	-40.42	peak	H
9	3820.0000	-65.81	16.03	-49.78	-13.00	-36.78	peak	H
1	130.5000	-61.28	14.10	-47.18	-13.00	-34.18	peak	V
2	201.5000	-60.85	9.97	-50.88	-13.00	-37.88	peak	V
3	352.5000	-57.67	1.97	-55.70	-13.00	-42.70	peak	V
4	628.0000	-56.61	8.79	-47.82	-13.00	-34.82	peak	V
5	814.0000	-56.65	11.46	-45.19	-13.00	-32.19	peak	V
6	959.0000	-56.25	12.40	-43.85	-13.00	-30.85	peak	V
7	1910.0000	-50.35	8.73	-41.62	-13.00	-28.62	peak	V
8	2468.0000	-65.16	11.95	-53.21	-13.00	-40.21	peak	V
9	3820.0000	-62.35	20.13	-42.22	-13.00	-29.22	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	10/13/2010
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	37.0000	-60.25	36.64	-23.61	-13.00	-10.61	peak	H
2	98.0000	-61.55	14.45	-47.10	-13.00	-34.10	peak	H
3	341.0000	-58.49	7.60	-50.89	-13.00	-37.89	peak	H
4	493.5000	-57.48	21.94	-35.54	-13.00	-22.54	peak	H
5	790.5000	-56.87	19.85	-37.02	-13.00	-24.02	peak	H
6	916.0000	-56.61	31.49	-25.12	-13.00	-12.12	peak	H
7	1504.0000	-64.32	10.36	-53.96	-13.00	-40.96	peak	H
8	1850.0000	-63.57	10.42	-53.15	-13.00	-40.15	peak	H
9	2464.0000	-65.46	11.88	-53.58	-13.00	-40.58	peak	H
1	46.0000	-60.45	17.62	-42.83	-13.00	-29.83	peak	V
2	102.0000	-61.40	10.94	-50.46	-13.00	-37.46	peak	V
3	276.0000	-58.71	13.21	-45.50	-13.00	-32.50	peak	V
4	679.5000	-57.55	21.87	-35.68	-13.00	-22.68	peak	V
5	849.5000	-56.53	22.43	-34.10	-13.00	-21.10	peak	V
6	983.5000	-55.69	26.09	-29.60	-13.00	-16.60	peak	V
7	1520.0000	-63.76	5.70	-58.06	-13.00	-45.06	peak	V
8	1852.0000	-58.78	8.27	-50.51	-13.00	-37.51	peak	V
9	2718.0000	-66.24	13.92	-52.32	-13.00	-39.32	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	10/13/2010
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	41.5000	-60.30	36.66	-23.64	-13.00	-10.64	peak	H
2	98.0000	-61.28	14.45	-46.83	-13.00	-33.83	peak	H
3	279.5000	-58.38	2.65	-55.73	-13.00	-42.73	peak	H
4	477.5000	-57.98	21.86	-36.12	-13.00	-23.12	peak	H
5	769.0000	-56.98	18.93	-38.05	-13.00	-25.05	peak	H
6	905.0000	-57.66	31.74	-25.92	-13.00	-12.92	peak	H
7	1516.0000	-63.77	10.36	-53.41	-13.00	-40.41	peak	H
8	1882.0000	-63.24	10.43	-52.81	-13.00	-39.81	peak	H
9	2446.0000	-64.69	11.83	-52.86	-13.00	-39.86	peak	H
1	43.0000	-61.20	17.79	-43.41	-13.00	-30.41	peak	V
2	100.5000	-61.80	11.25	-50.55	-13.00	-37.55	peak	V
3	283.5000	-59.47	13.30	-46.17	-13.00	-33.17	peak	V
4	597.5000	-57.57	17.66	-39.91	-13.00	-26.91	peak	V
5	743.0000	-56.41	22.90	-33.51	-13.00	-20.51	peak	V
6	982.5000	-56.14	26.05	-30.09	-13.00	-17.09	peak	V
7	1526.0000	-63.19	5.75	-57.44	-13.00	-44.44	peak	V
8	1880.0000	-57.73	8.50	-49.23	-13.00	-36.23	peak	V
9	2710.0000	-65.79	13.84	-51.95	-13.00	-38.95	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	10/13/2010
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	37.0000	-60.63	36.64	-23.99	-13.00	-10.99	peak	H
2	100.5000	-61.77	14.53	-47.24	-13.00	-34.24	peak	H
3	297.5000	-57.89	3.40	-54.49	-13.00	-41.49	peak	H
4	491.0000	-56.97	22.01	-34.96	-13.00	-21.96	peak	H
5	820.5000	-57.03	22.39	-34.64	-13.00	-21.64	peak	H
6	928.0000	-56.71	31.02	-25.69	-13.00	-12.69	peak	H
7	1456.0000	-62.82	10.48	-52.34	-13.00	-39.34	peak	H
8	1906.0000	-61.28	10.43	-50.85	-13.00	-37.85	peak	H
9	2476.0000	-65.14	11.92	-53.22	-13.00	-40.22	peak	H
1	33.0000	-58.74	16.00	-42.74	-13.00	-29.74	peak	V
2	100.5000	-62.10	11.25	-50.85	-13.00	-37.85	peak	V
3	290.0000	-58.23	12.93	-45.30	-13.00	-32.30	peak	V
4	684.0000	-56.84	21.70	-35.14	-13.00	-22.14	peak	V
5	871.5000	-56.62	22.80	-33.82	-13.00	-20.82	peak	V
6	987.0000	-55.71	26.25	-29.46	-13.00	-16.46	peak	V
7	1528.0000	-63.96	5.76	-58.20	-13.00	-45.20	peak	V
8	1906.0000	-57.73	8.69	-49.04	-13.00	-36.04	peak	V
9	2464.0000	-65.53	11.94	-53.59	-13.00	-40.59	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	10/14/2010
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	100.5000	-61.28	14.53	-46.75	-13.00	-33.75	peak	H
2	236.5000	-55.36	0.72	-54.64	-13.00	-41.64	peak	H
3	343.0000	-58.22	7.54	-50.68	-13.00	-37.68	peak	H
4	491.0000	-58.10	22.01	-36.09	-13.00	-23.09	peak	H
5	782.0000	-58.06	19.50	-38.56	-13.00	-25.56	peak	H
6	921.0000	-56.83	31.34	-25.49	-13.00	-12.49	peak	H
7	1084.0000	-62.24	11.46	-50.78	-13.00	-37.78	peak	H
8	1654.0000	-52.56	10.38	-42.18	-13.00	-29.18	peak	H
9	2686.0000	-67.02	12.65	-54.37	-13.00	-41.37	peak	H
1	105.0000	-60.95	10.31	-50.64	-13.00	-37.64	peak	V
2	284.0000	-58.70	13.27	-45.43	-13.00	-32.43	peak	V
3	340.5000	-57.93	12.67	-45.26	-13.00	-32.26	peak	V
4	590.5000	-58.27	17.00	-41.27	-13.00	-28.27	peak	V
5	722.0000	-56.32	22.12	-34.20	-13.00	-21.20	peak	V
6	984.0000	-55.30	26.11	-29.19	-13.00	-16.19	peak	V
7	1096.0000	-63.13	3.07	-60.06	-13.00	-47.06	peak	V
8	1654.0000	-54.34	6.74	-47.60	-13.00	-34.60	peak	V
9	2706.0000	-66.91	13.80	-53.11	-13.00	-40.11	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	10/14/2010
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	42.0000	-54.61	36.54	-18.07	-13.00	-5.07	peak	H
2	99.0000	-57.63	14.65	-42.98	-13.00	-29.98	peak	H
3	278.5000	-57.29	2.58	-54.71	-13.00	-41.71	peak	H
4	496.0000	-58.39	21.87	-36.52	-13.00	-23.52	peak	H
5	773.5000	-57.34	19.12	-38.22	-13.00	-25.22	peak	H
6	910.0000	-56.97	31.63	-25.34	-13.00	-12.34	peak	H
7	1074.0000	-62.49	11.50	-50.99	-13.00	-37.99	peak	H
8	1674.0000	-50.41	10.39	-40.02	-13.00	-27.02	peak	H
9	2924.0000	-66.81	13.47	-53.34	-13.00	-40.34	peak	H
1	101.5000	-61.00	11.05	-49.95	-13.00	-36.95	peak	V
2	280.0000	-58.82	13.50	-45.32	-13.00	-32.32	peak	V
3	532.5000	-59.06	13.11	-45.95	-13.00	-32.95	peak	V
4	682.5000	-57.06	21.79	-35.27	-13.00	-22.27	peak	V
5	755.5000	-57.24	22.82	-34.42	-13.00	-21.42	peak	V
6	966.0000	-55.81	25.44	-30.37	-13.00	-17.37	peak	V
7	1080.0000	-62.71	2.96	-59.75	-13.00	-46.75	peak	V
8	1670.0000	-53.47	6.86	-46.61	-13.00	-33.61	peak	V
9	2872.0000	-67.67	15.17	-52.50	-13.00	-39.50	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	10/14/2010
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	100.5000	-61.16	14.53	-46.63	-13.00	-33.63	peak	H
2	268.5000	-58.16	1.89	-56.27	-13.00	-43.27	peak	H
3	354.0000	-57.75	7.25	-50.50	-13.00	-37.50	peak	H
4	481.0000	-59.03	22.28	-36.75	-13.00	-23.75	peak	H
5	749.5000	-57.13	18.14	-38.99	-13.00	-25.99	peak	H
6	925.0000	-56.55	31.16	-25.39	-13.00	-12.39	peak	H
7	1066.0000	-62.74	11.52	-51.22	-13.00	-38.22	peak	H
8	1690.0000	-49.17	10.39	-38.78	-13.00	-25.78	peak	H
9	2676.0000	-66.71	12.61	-54.10	-13.00	-41.10	peak	H
1	42.5000	-54.33	17.77	-36.56	-13.00	-23.56	peak	V
2	105.5000	-59.61	10.20	-49.41	-13.00	-36.41	peak	V
3	289.0000	-58.64	12.97	-45.67	-13.00	-32.67	peak	V
4	476.0000	-57.97	11.09	-46.88	-13.00	-33.88	peak	V
5	627.5000	-56.37	19.61	-36.76	-13.00	-23.76	peak	V
6	738.0000	-57.19	22.82	-34.37	-13.00	-21.37	peak	V
7	1058.0000	-63.16	2.83	-60.33	-13.00	-47.33	peak	V
8	1692.0000	-52.07	7.04	-45.03	-13.00	-32.03	peak	V
9	2980.0000	-68.37	16.05	-52.32	-13.00	-39.32	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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

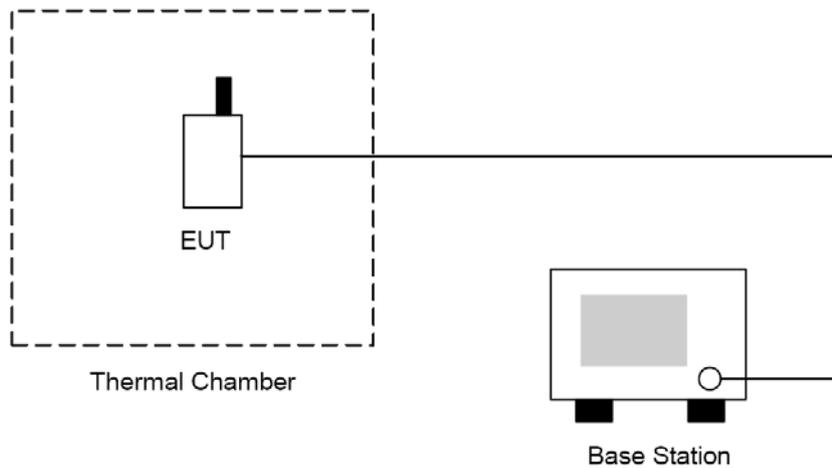
7.2. Test Instruments

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	08/26/2009	(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.

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°C 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°C 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 $\pm 10\text{Hz}$.

7.6. Test Result

Model Number	PD98120			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 1: GSM 850 Link (GSM power amplifier #1)			
Date of Test	08/19/2010		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	22.35	0.027	±2.5	Pass
-20	23.14	0.028	±2.5	Pass
-10	22.36	0.027	±2.5	Pass
0	23.17	0.028	±2.5	Pass
10	29.36	0.035	±2.5	Pass
20	24.69	0.030	±2.5	Pass
30	21.36	0.026	±2.5	Pass
40	22.77	0.027	±2.5	Pass
50	24.65	0.029	±2.5	Pass

Model Number	PD98120			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 1: GSM 850 Link (GSM power amplifier #2)			
Date of Test	08/19/2010		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	24.36	0.029	±2.5	Pass
-20	22.37	0.027	±2.5	Pass
-10	23.45	0.028	±2.5	Pass
0	26.78	0.032	±2.5	Pass
10	23.51	0.028	±2.5	Pass
20	26.98	0.032	±2.5	Pass
30	22.17	0.027	±2.5	Pass
40	20.36	0.024	±2.5	Pass
50	23.47	0.028	±2.5	Pass

Model Number	PD98120			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 2: GSM 1900 Link (GSM power amplifier #1)			
Date of Test	08/19/2010		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	21.36	0.011	±2.5	Pass
-20	21.02	0.011	±2.5	Pass
-10	23.44	0.012	±2.5	Pass
0	23.14	0.012	±2.5	Pass
10	22.17	0.012	±2.5	Pass
20	24.98	0.013	±2.5	Pass
30	25.17	0.013	±2.5	Pass
40	23.56	0.013	±2.5	Pass
50	26.11	0.014	±2.5	Pass

Model Number	PD98120			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 2: GSM 1900 Link (GSM power amplifier #2)			
Date of Test	08/19/2010		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	22.39	0.012	±2.5	Pass
-20	21.36	0.011	±2.5	Pass
-10	24.78	0.013	±2.5	Pass
0	23.98	0.013	±2.5	Pass
10	23.47	0.012	±2.5	Pass
20	25.36	0.013	±2.5	Pass
30	28.74	0.015	±2.5	Pass
40	22.39	0.012	±2.5	Pass
50	26.47	0.014	±2.5	Pass

Model Number	PD98120			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 3: WCDMA Band II Link			
Date of Test	08/19/2010		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	23.47	0.012	±2.5	Pass
-20	22.31	0.012	±2.5	Pass
-10	23.58	0.013	±2.5	Pass
0	21.37	0.011	±2.5	Pass
10	22.91	0.012	±2.5	Pass
20	23.52	0.013	±2.5	Pass
30	21.39	0.011	±2.5	Pass
40	23.94	0.013	±2.5	Pass
50	22.44	0.012	±2.5	Pass

Model Number	PD98120			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 4: WCDMA Band V Link			
Date of Test	08/19/2010		Test Site	TE02
Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	23.58	0.028	±2.5	Pass
-20	24.33	0.029	±2.5	Pass
-10	23.13	0.028	±2.5	Pass
0	22.55	0.027	±2.5	Pass
10	23.61	0.028	±2.5	Pass
20	19.32	0.023	±2.5	Pass
30	20.74	0.025	±2.5	Pass
40	21.69	0.026	±2.5	Pass
50	21.12	0.025	±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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

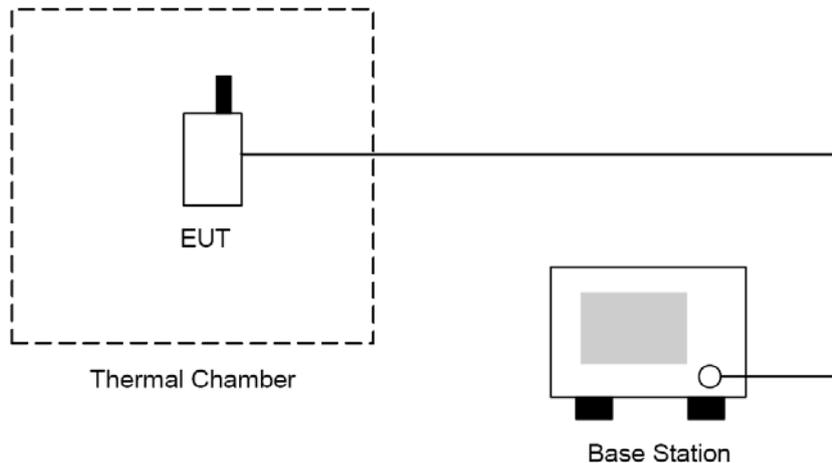
8.2. Test Instruments

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	08/26/2009	(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.

8.3. Setup



8.4. Test Procedure

1. The EUT was placed in a temperature chamber at $25 \pm 5^\circ\text{C}$ 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 $\pm 10\text{Hz}$.

8.6. Test Result

Model Number	PD98120				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 1: GSM 850 Link (GSM power amplifier #1)				
Date of Test	08/19/2010		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	23.14	0.028	± 2.5	Pass
Normal	3.70	22.36	0.027	± 2.5	Pass
Battery cut-off point	3.33	23.45	0.028	± 2.5	Pass

Model Number	PD98120				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 1: GSM 850 Link (GSM power amplifier #2)				
Date of Test	08/19/2010		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	31.62	0.038	± 2.5	Pass
Normal	3.70	30.54	0.037	± 2.5	Pass
Battery cut-off point	3.33	29.68	0.035	± 2.5	Pass

Model Number	PD98120				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 2: GSM 1900 Link (GSM power amplifier #1)				
Date of Test	08/19/2010		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	26.48	0.014	± 2.5	Pass
Normal	3.70	26.31	0.014	± 2.5	Pass
Battery cut-off point	3.33	25.74	0.014	± 2.5	Pass

Model Number	PD98120				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 2: GSM 1900 Link (GSM power amplifier #2)				
Date of Test	08/19/2010		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	30.12	0.016	±2.5	Pass
Normal	3.70	29.71	0.016	±2.5	Pass
Battery cut-off point	3.33	27.98	0.015	±2.5	Pass

Model Number	PD98120				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 3: WCDMA Band II Link				
Date of Test	08/19/2010		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	22.13	0.012	±2.5	Pass
Normal	3.70	23.33	0.012	±2.5	Pass
Battery cut-off point	3.33	20.57	0.011	±2.5	Pass

Model Number	PD98120				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 4: WCDMA Band V Link				
Date of Test	08/19/2010		Test Site	TE02	
Level	Voltage [V]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	4.07	21.36	0.026	±2.5	Pass
Normal	3.70	21.94	0.026	±2.5	Pass
Battery cut-off point	3.33	24.33	0.029	±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

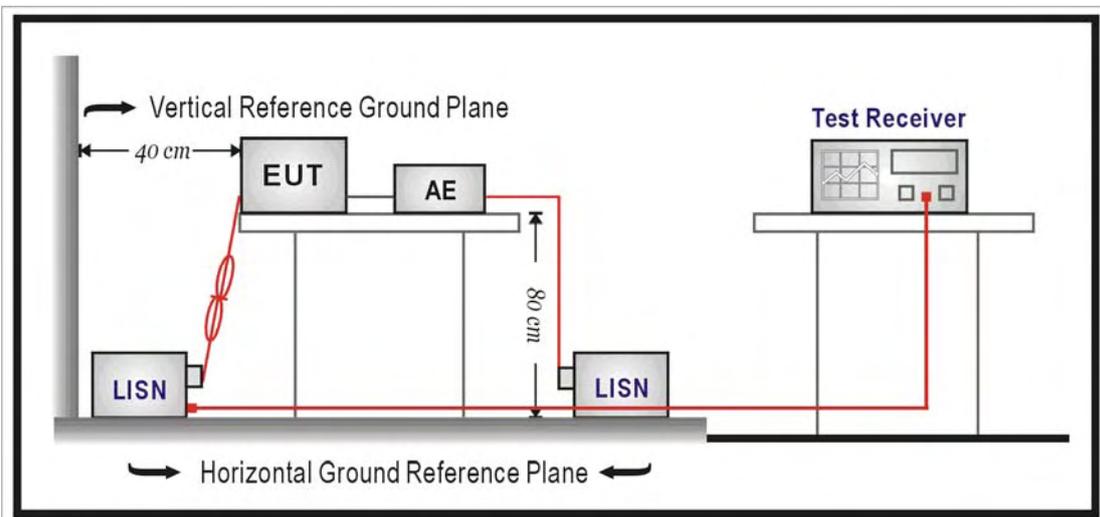
9.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	07/01/2009	(1)
LISN	R&S	ENV216	101040	03/02/2010	(1)
LISN	R&S	ENV216	101041	03/02/2010	(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.

9.3. Setup



9.4. Test Procedure

The measurement is made according to FCC rules 15.207:

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.

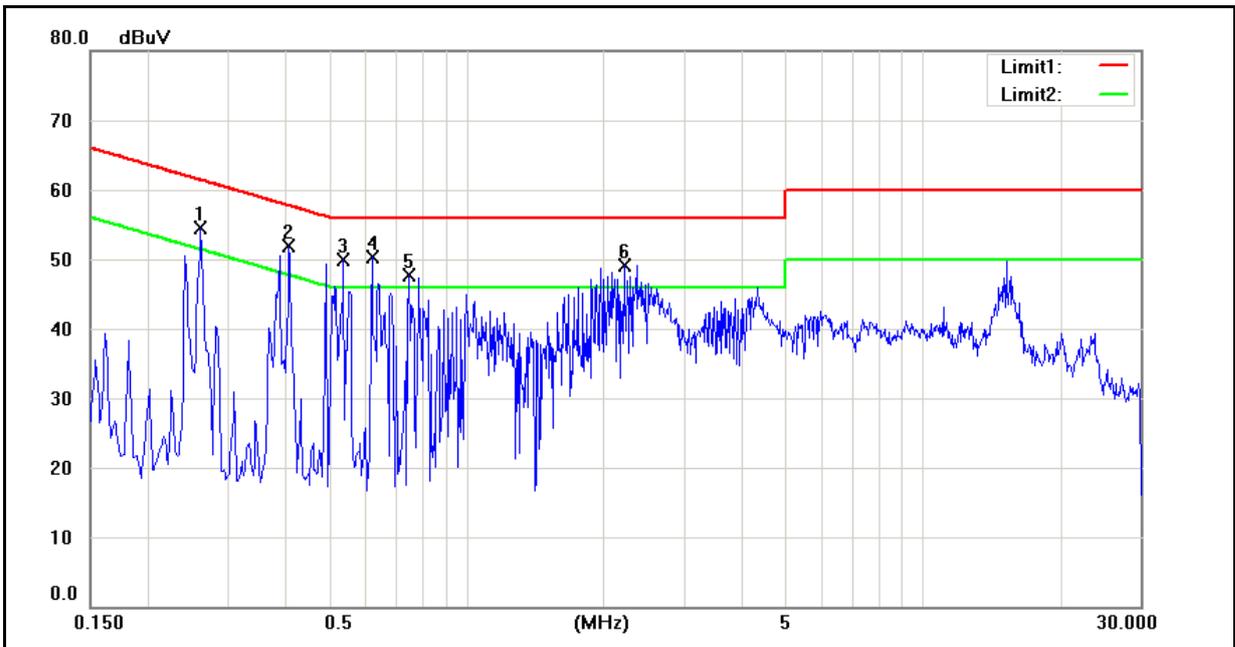
The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies 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.

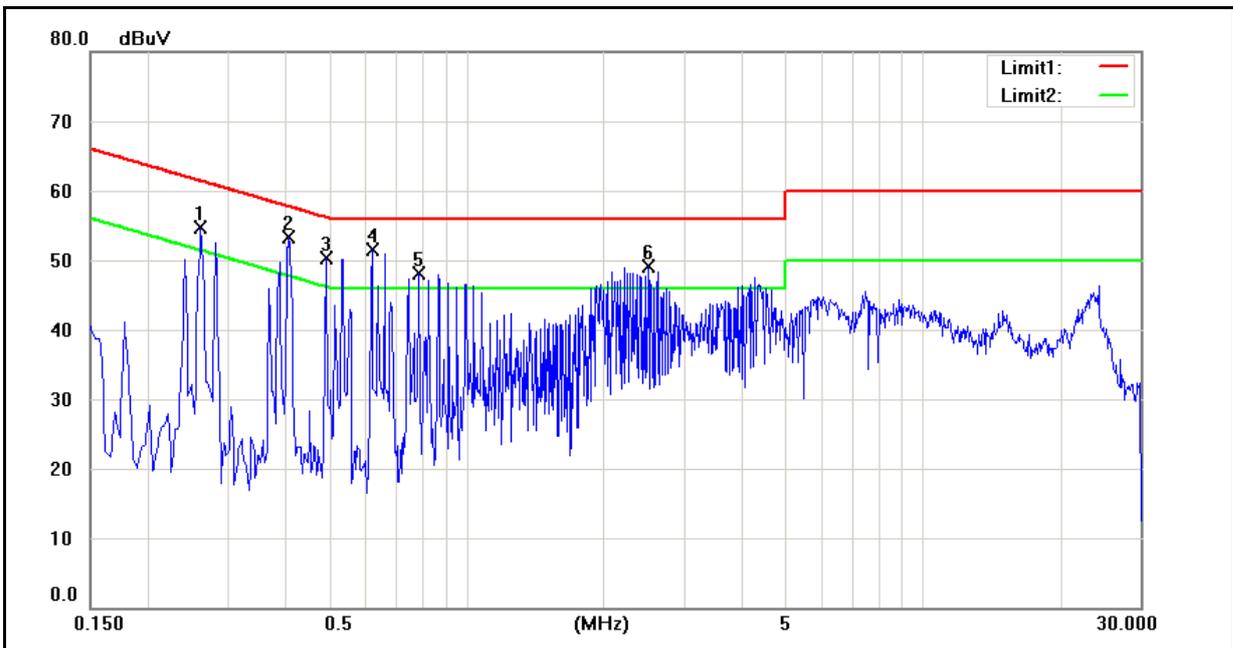
9.6. Test Result

Standard:	FCC Part 22H	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	10/13/2010
		Test By:	Gary Wu
Description:			



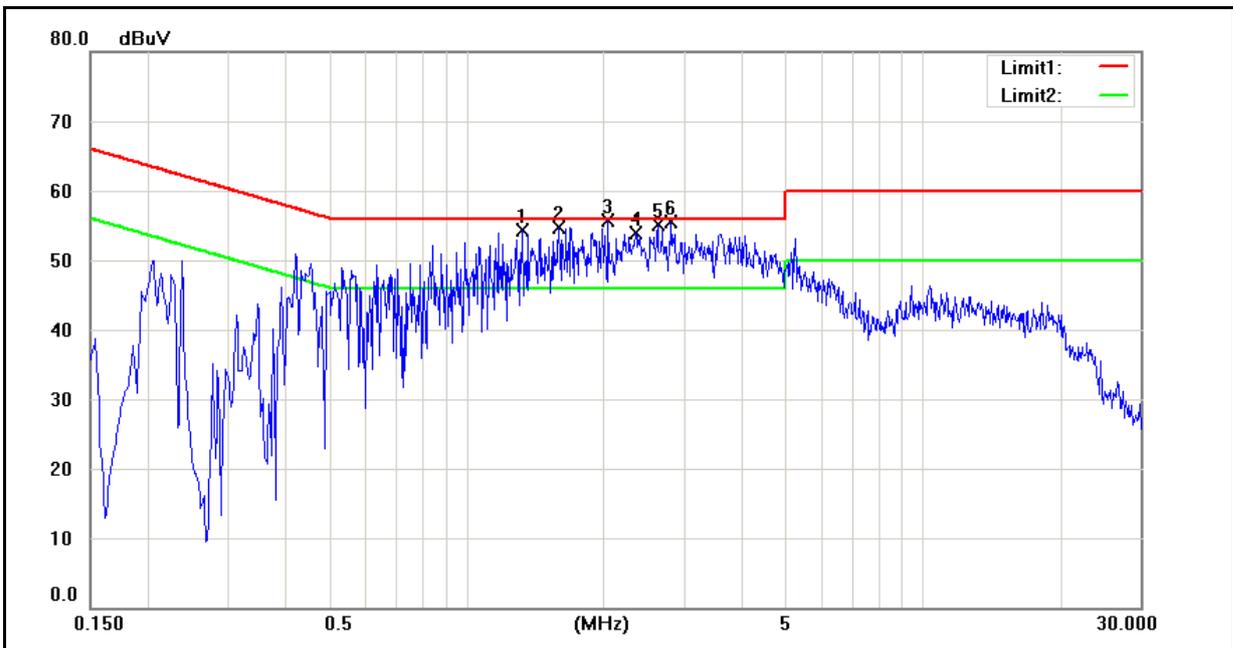
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2620	44.54	26.60	9.59	54.13	36.19	61.37	51.37	-7.24	-15.18	Pass
2	0.4100	39.00	19.29	9.59	48.59	28.88	57.65	47.65	-9.06	-18.77	Pass
3	0.5380	35.22	16.77	9.59	44.81	26.36	56.00	46.00	-11.19	-19.64	Pass
4	0.6220	36.60	17.27	9.59	46.19	26.86	56.00	46.00	-9.81	-19.14	Pass
5	0.7500	32.48	14.88	9.60	42.08	24.48	56.00	46.00	-13.92	-21.52	Pass
6	2.2220	33.45	15.72	9.61	43.06	25.33	56.00	46.00	-12.94	-20.67	Pass

Standard:	FCC Part 22H	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 1	Date:	10/13/2010
		Test By:	Gary Wu
Description:			



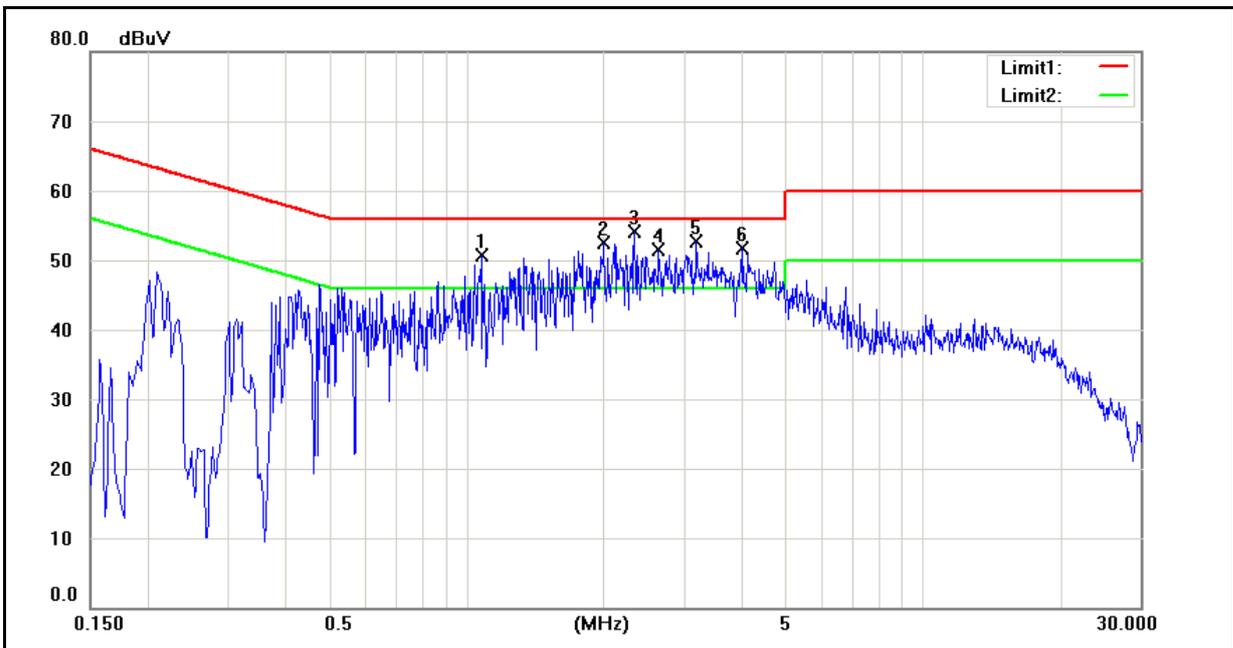
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2620	44.28	24.78	9.58	53.86	34.36	61.37	51.37	-7.51	-17.01	Pass
2	0.4100	39.85	17.59	9.59	49.44	27.18	57.65	47.65	-8.21	-20.47	Pass
3	0.4940	36.39	13.14	9.59	45.98	22.73	56.10	46.10	-10.12	-23.37	Pass
4	0.6220	37.42	14.67	9.59	47.01	24.26	56.00	46.00	-8.99	-21.74	Pass
5	0.7900	32.92	10.42	9.59	42.51	20.01	56.00	46.00	-13.49	-25.99	Pass
6	2.5060	32.53	12.13	9.61	42.14	21.74	56.00	46.00	-13.86	-24.26	Pass

Standard:	FCC Part 24E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	10/19/2010
		Test By:	Gary Wu
Description:			



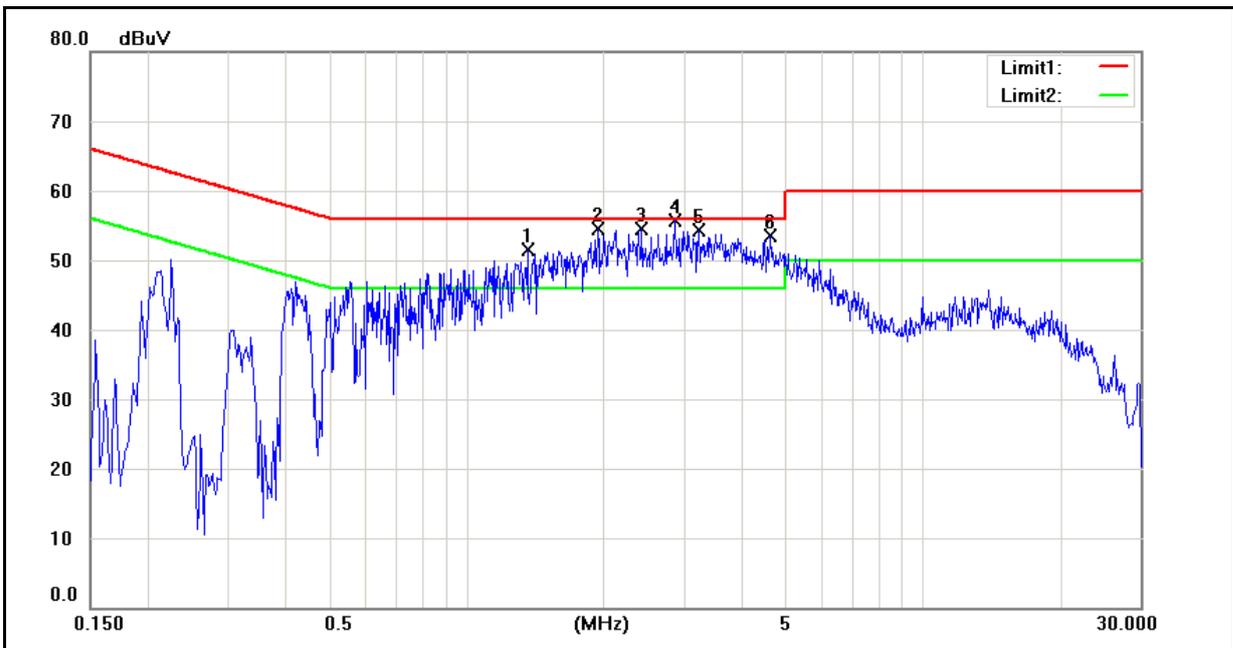
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	1.3300	34.49	21.64	9.60	44.09	31.24	56.00	46.00	-11.91	-14.76	Pass
2	1.5980	35.94	24.46	9.61	45.55	34.07	56.00	46.00	-10.45	-11.93	Pass
3	2.0460	37.01	25.92	9.61	46.62	35.53	56.00	46.00	-9.38	-10.47	Pass
4	2.3580	37.34	26.63	9.61	46.95	36.24	56.00	46.00	-9.05	-9.76	Pass
5	2.6260	37.69	27.29	9.62	47.31	36.91	56.00	46.00	-8.69	-9.09	Pass
6	2.8180	37.37	27.22	9.62	46.99	36.84	56.00	46.00	-9.01	-9.16	Pass

Standard:	FCC Part 24E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2	Date:	10/19/2010
		Test By:	Gary Wu
Description:			



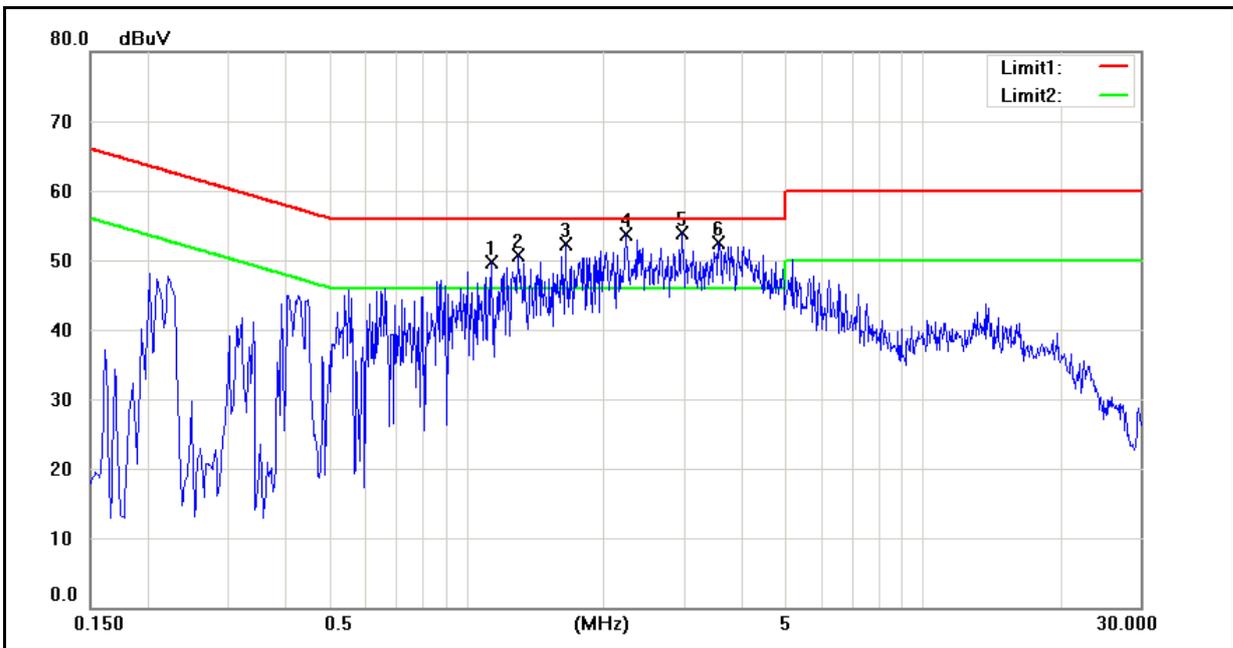
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	1.0820	32.16	18.32	9.59	41.75	27.91	56.00	46.00	-14.25	-18.09	Pass
2	2.0100	34.82	23.55	9.60	44.42	33.15	56.00	46.00	-11.58	-12.85	Pass
3	2.3380	34.55	24.04	9.60	44.15	33.64	56.00	46.00	-11.85	-12.36	Pass
4	2.6460	35.02	24.48	9.61	44.63	34.09	56.00	46.00	-11.37	-11.91	Pass
5	3.1940	34.51	24.65	9.61	44.12	34.26	56.00	46.00	-11.88	-11.74	Pass
6	4.0460	34.06	24.12	9.62	43.68	33.74	56.00	46.00	-12.32	-12.26	Pass

Standard:	FCC Part 24E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	10/19/2010
		Test By:	Gary Wu
Description:			



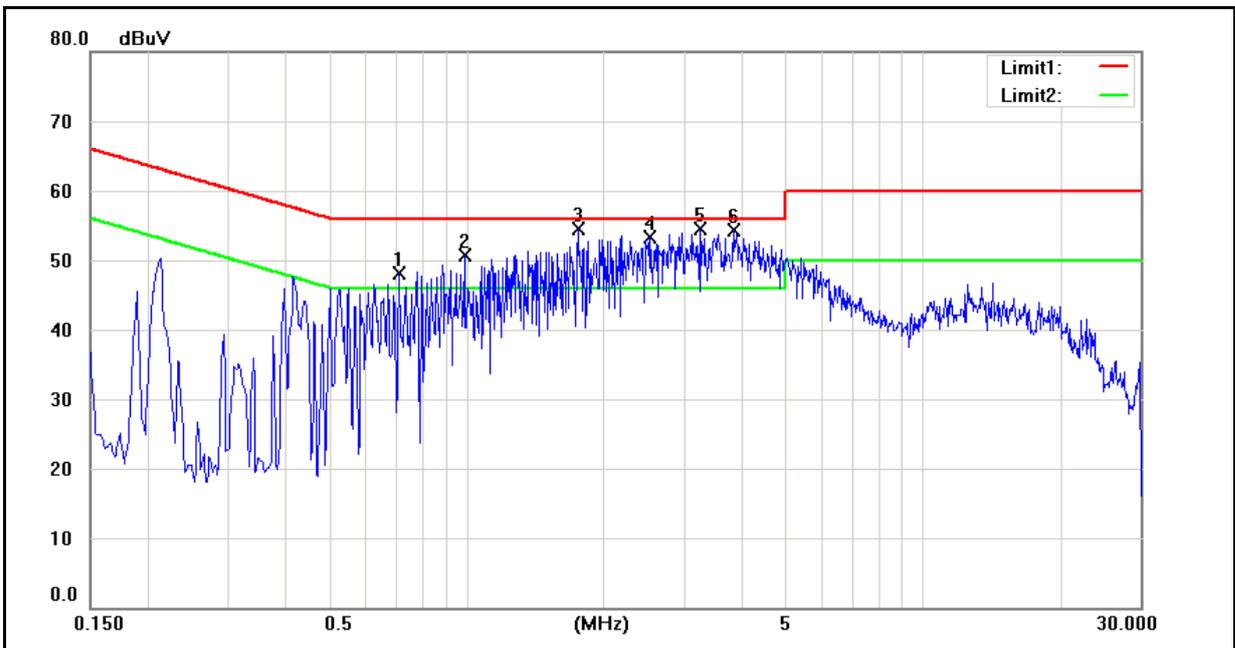
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	1.3620	34.46	21.64	9.60	44.06	31.24	56.00	46.00	-11.94	-14.76	Pass
2	1.9420	36.36	25.34	9.61	45.97	34.95	56.00	46.00	-10.03	-11.05	Pass
3	2.4220	38.51	27.58	9.61	48.12	37.19	56.00	46.00	-7.88	-8.81	Pass
4	2.8740	37.85	27.67	9.62	47.47	37.29	56.00	46.00	-8.53	-8.71	Pass
5	3.2340	37.54	27.54	9.62	47.16	37.16	56.00	46.00	-8.84	-8.84	Pass
6	4.6380	35.81	25.82	9.64	45.45	35.46	56.00	46.00	-10.55	-10.54	Pass

Standard:	FCC Part 24E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3	Date:	10/19/2010
		Test By:	Gary Wu
Description:			



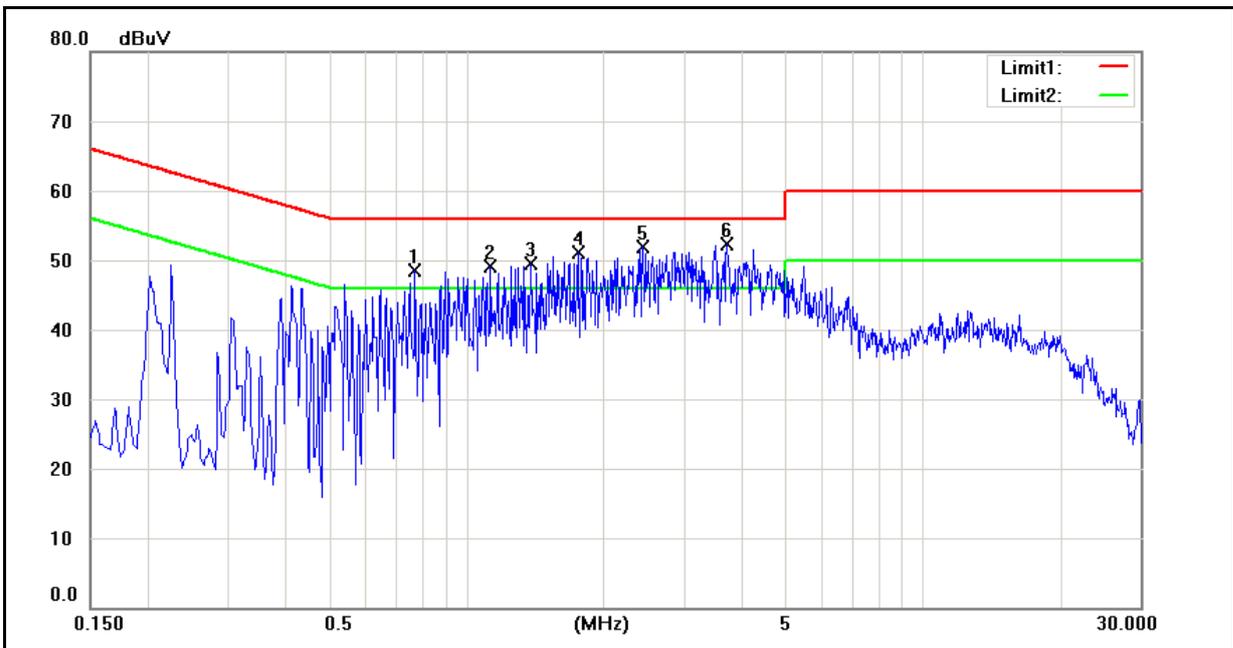
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	1.1380	31.78	18.61	9.59	41.37	28.20	56.00	46.00	-14.63	-17.80	Pass
2	1.2980	33.94	22.24	9.59	43.53	31.83	56.00	46.00	-12.47	-14.17	Pass
3	1.6500	35.95	23.04	9.60	45.55	32.64	56.00	46.00	-10.45	-13.36	Pass
4	2.2460	35.22	23.93	9.60	44.82	33.53	56.00	46.00	-11.18	-12.47	Pass
5	2.9620	36.01	25.18	9.61	45.62	34.79	56.00	46.00	-10.38	-11.21	Pass
6	3.5780	34.49	24.51	9.62	44.11	34.13	56.00	46.00	-11.89	-11.87	Pass

Standard:	FCC Part 22H	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	10/13/2010
		Test By:	Gary Wu
Description:			



No.	Frequency	QP reading	AVG reading	Correction factor	QP result	AVG result	QP limit	AVG limit	QP margin	AVG margin	Remark
1	0.7140	33.00	19.65	9.60	42.60	29.25	56.00	46.00	-13.40	-16.75	Pass
2	0.9940	34.94	22.22	9.60	44.54	31.82	56.00	46.00	-11.46	-14.18	Pass
3	1.7540	37.01	25.75	9.61	46.62	35.36	56.00	46.00	-9.38	-10.64	Pass
4	2.5340	38.07	27.44	9.62	47.69	37.06	56.00	46.00	-8.31	-8.94	Pass
5	3.2580	37.40	27.41	9.62	47.02	37.03	56.00	46.00	-8.98	-8.97	Pass
6	3.8460	37.41	27.27	9.63	47.04	36.90	56.00	46.00	-8.96	-9.10	Pass

Standard:	FCC Part 22H	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	PD98120	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4	Date:	10/13/2010
		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	0.7740	31.85	16.80	9.59	41.44	26.39	56.00	46.00	-14.56	-19.61	Pass
2	1.1300	31.96	19.14	9.59	41.55	28.73	56.00	46.00	-14.45	-17.27	Pass
3	1.3860	33.52	21.74	9.59	43.11	31.33	56.00	46.00	-12.89	-14.67	Pass
4	1.7620	35.41	23.25	9.60	45.01	32.85	56.00	46.00	-10.99	-13.15	Pass
5	2.4380	35.35	24.65	9.60	44.95	34.25	56.00	46.00	-11.05	-11.75	Pass
6	3.7340	34.99	24.82	9.62	44.61	34.44	56.00	46.00	-11.39	-11.56	Pass